

BASIS OF DESIGN - MULTIPLEX MOVIE THEATER PROJECT
Date: December 2015 Project Name: Multiplex Movie Theater Project Project #: 2015-01 Prepared By: Reader Revision date:
BUILDING
■New Construction □ Renovation □ Addition Sq. Ft.: No. of floors below grade: No. of floors at and above grade:
UTILITIES
Electrical: Vew Upgrade Existing Gas: New Upgrade Existing Steam: New Upgrade Existing Chilled Water: New Upgrade Existing
Hot Water: New □ Upgrade □ Existing
Services from Utility of: Lectric Gas District Energy Existing Campus Power Plant: Electric Gas Gas CHWS CHWS Hot Water
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 Mone
Chilled Water Temperature: ☐ CHWS @ 42°F & CHWR @ 56°F ☐ Mone
Condenser Water Temperature: ☐ CWS @ 85°F & CWR @ 95°F ■ None
Hot Water Temperature: HWS @ 160°F & HWR @ 120°F when 16°F OAT and 90°F HWR 70°F when OAT is 60°F □ Fixed HWS @°F & HWR @°F □ None
ASHRAE APPLICATION HANDBOOK
ASHRAE 2015 Handbook: [5] Other Chapters: [X] Yes [] No ASHRAE 2012 Handbook: Chapter [1] [2] [3]
OWNER MECHANICAL DESIGN PARAMETERS Equipment Location: On floor being served In central equipment room(s) On roof In penthouse Away from building
Maintenance Outside Occupied Space: Wyes No
Redundancy: ☐ For new central air-handlers ☐ N+? ■No
Equipment/System Expansion: Increase equipment size by% INo
Indoor Air Quality at: MERV rating of [8] for pre-filters MERV rating of [13] for final filter
Additional Consultants Design Parameters: ✓ Acoustics ✓ Security ✓ Infection ✓ None
Specialty Room(s): ☐ For Basement Special Room None
DESIGN CRITERIA Outdoor Dry Bulb & Wet Bulb: 16°F Heating season 97°F/74°F Cooling season
Public/Common Area & Theaters: © Occupied period © unoccupied period © Warm-up & cool down □ Operate 24-7 year-round
Set Point: 70°F Heating Season & 74°F and not-to-exceed < 60 %RH Cooling Season
Occupancy Schedule: 24-7-365 🖫 Occupied/unoccupied
Mechanical & Electrical Space and Back of the House Area: ☐ Occupied period ☐ Unoccupied period ☐ Warm-up & cool down ☐ 24-7 year-round
Set Point: 68°F Heating season & 78°F < 60% RH Cooling season
Occupancy Schedule: ¥24-7-365 ☐ Occupied/unoccupied
Building space pressure: [+] [-] [=] at 0.05" pressure
ENERGY & ENVIRONMENT CRITERIA
LEED Certification: ☐ Yes ☐ No ☐ Other certification (List the program)
Annual Operating Budget: ☐ Energy budget ☐ Organization structure ☐
Refer To "The Facility Files" For Additional Operation & Maintenance Design Criteria
SPECIAL CONDITIONS & REQUIREMENTS
1.