

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☒ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☒ No ☐ Yes (Provide Code or Statutory reference): \_\_\_\_\_

Climate Zone: ☒ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive  
ASHRAE 90.1 ☐ Performance ☐ Prescriptive  
(If "Other" specify source here) \_\_\_\_\_

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: 4-ply built-up roofing  
U-Value of total assembly: .032  
R-Value of insulation: R-25, min. 5" thickness  
Skylights in each assembly: N/A  
U-Value of skylight: N/A  
Total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)

Description of assembly: EIFS w/ air barrier over 2x6 wood studs w/ R-19 insulation  
U-Value of total assembly: .036  
R-Value of insulation: R-19  
Openings (windows or doors with glazing)  
U-Value of assembly: .28  
Solar heat gain coefficient: .38  
Projection factor: .48  
Door R-Values: .28

Walls below grade (each assembly)

Description of assembly: N/A  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Floors over unconditioned space (each assembly)

Description of assembly: N/A  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Floors slab on grade

Description of assembly: Concrete slab on grade  
U-Value of total assembly: .09  
R-Value of insulation: N/A  
Horizontal/Vertical requirement: N/A  
Slab Heated: No

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Appendix B for Building

2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
STRUCTURAL DESIGN  
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 1.0  
Seismic (Ie) 1.0

Live Loads: Roof 20 psf  
Mezzanine N/A psf  
Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)  
Exposure Category G

SEISMIC DESIGN CATEGORY:

☐ A ☐ B ☒ C ☐ D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV

Spectral Response Acceleration Ss .259 %g Si .108 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data  
Basic structural system ☒ Bearing Wall ☐ Dual w/Special Moment Frame  
☒ Building Frame ☐ Dual w/Intermediate R/C or Special Steel  
☐ Moment Frame ☐ Inverted Pendulum  
☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic  
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) \_\_\_\_\_ psf  
Presumptive Bearing capacity 2500 psf  
Pile size, type, and capacity \_\_\_\_\_

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2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
MECHANICAL DESIGN  
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

WE ARE ONLY SUBMITTING A COLD DARK SHELL. THIS SECTION TO BE COMPLETED AS PART OF THE FIT UP.  
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_

Interior design conditions

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_  
relative humidity: \_\_\_\_\_

Building heating load:

Building cooling load: \_\_\_\_\_

Mechanical Spacing Conditioning System

Unitary  
description of unit: \_\_\_\_\_  
heating efficiency: \_\_\_\_\_  
cooling efficiency: \_\_\_\_\_  
size category of unit: \_\_\_\_\_

Boiler

Size category. If oversized, state reason.: \_\_\_\_\_

Chiller

Size category. If oversized, state reason.: \_\_\_\_\_

List equipment efficiencies: \_\_\_\_\_

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2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
ELECTRICAL DESIGN  
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

WE ARE ONLY SUBMITTING A COLD DARK SHELL. THIS SECTION TO BE COMPLETED AS PART OF THE FIT UP.  
ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: ☐ Prescriptive ☐ Performance  
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture  
total interior wattage specified vs. allowed (whole building or space by space)  
total exterior wattage specified vs. allowed

Additional Efficiency Package Options

(When using the 2018 NCECC; not required for ASHRAE 90.1)

- ☐ C406.2 More Efficient Mechanical Equipment  
☐ C406.3 Reduced Lighting Power Density  
☐ C406.4 Enhanced Digital Lighting Controls  
☐ C406.5 On-Site Renewable Energy  
☐ C406.6 Dedicated Outdoor Air System  
☐ C406.7 Reduced Energy Use in Service Water Heating

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Appendix B for Building

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Issue Record:

01.19.21 TENANT/ OWNER REVIEW  
03.08.21 PERMIT SET

Revisions:

1 03/11/21 Municipality Revisions

Drawn:

Checked:

KM

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Project No.

CMGXXX

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