

Table with 2 columns: REVISIONS, No., Date. Includes PROJECT MANAGER, JOB NO., DR. BY, and DRAWING NAME.

CODE SUMMARY

CITY OF RALEIGH BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS NC 2012 BUILDING CODE

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2.)

Name of Project: HARRIS TEEKLE #261
Address: 1520 JOHN TEEK BLVD, RALEIGH, NC
Owner or Authorized Agent: RAJESH BHANE
Email: RAJESH.BHANE@ARCONS.COM

Lead Design Professional/Project Coordinator: RAJESH BHANE
DESIGNER: ARCONS DESIGN STUDIO
Architectural: RAJESH BHANE
Civil: WESLEY SHERMAN
Electrical: TERRY BUCHHEIM
Fire Alarm: WESLEY SHERMAN
Plumbing: WESLEY SHERMAN
Mechanical: WESLEY SHERMAN
Structural: STRUCTURAL INTEGRITY J.S. BALBICK

ALLOWABLE HEIGHT EXISTING BUILDINGS NO CHANGE

Table with 4 columns: Building Height in Feet, Type, Table 503, Table 503

BUILDING DATA THIS SECTION REQUIRED FOR ALL PROJECTS

Construction Type: I-A, I-B, II-A, II-B, III-A, III-B, IV-A, IV-B
Sprinklers: No, Yes
Fire District: No, Yes
Building Height: 27.00 Feet, 1 Story

Area of Project: 488.27 SF
Area of Construction: 488.27 SF

OCCUPANT LOAD AND EXIT WIDTH EXISTING BUILDINGS NO CHANGE

Table with 4 columns: Space, Area - SF, Occupant Load Factor, Occupant Load, Exit Width, Exit Quantity

ASSEMBLY OCCUPANCY INFORMATION THIS SECTION FOR ASSEMBLY USE AREAS

Table with 4 columns: Space, Area - SF, Occupant Load Factor, Occupant Load, Exit Width, Exit Quantity

PLUMBING FIXTURE REQUIREMENTS EXISTING BUILDINGS NO CHANGE

Table with 4 columns: Building, Number of Fixtures, Total Fixtures, Notes

Building Code: 2012 North Carolina State Building Code (NCSBC)
2009 North Carolina State Building Code (NCSBC)
2006 North Carolina State Building Code (NCSBC)

New Building: No
Accessibility: No
Original Occupancy: MERCANTILE - EXISTING BLDG.

OCCUPANCY INFORMATION

Primary Occupancies: Assembly, Educational, Factory/Industrial, Office, Retail, Storage
Special Occupancies: 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421

FIRE PROTECTION REQUIREMENTS EXISTING BUILDING - NO CHANGE

Life Safety Plan Sheet #, if provided

Table with 4 columns: Building, Number of Fixtures, Total Fixtures, Notes

Structural Design Loads

- 1. Structure conforms to "Conventional Light Frame Provisions of 2304
2. Roof Live Load = 20 PSF
3. Floor Live Load = 40 PSF
4. Ground Snow Load (Pg) = 0 PSF
5. Basic Wind Speed, 3 sec. Gust = 115 MPH
6. Seismic Site Class = S
7. Seismic Design Category = C
8. Live Loads = 40 PSF
9. Live Loads = 40 PSF
10. Flat-Roof Snow Load (Ps) = 20 PSF
11. Snow Exposure Factor (Cs) = 1
12. Snow Importance Factor (Is) = 1
13. Thermal Factor (Ct) = 1
14. Wind Design Data
15. Basic Wind Speed, 3 sec. Gust = 115 MPH
16. Wind Exposure Factor (Kzt) = 1
17. Wind Importance Factor (Iw) = 1
18. Wind Exposure Factor (Kzt) = 1
19. Wind Exposure Factor (Kzt) = 1
20. Wind Exposure Factor (Kzt) = 1
21. Wind Exposure Factor (Kzt) = 1
22. Wind Exposure Factor (Kzt) = 1
23. Wind Exposure Factor (Kzt) = 1
24. Internal Pressure Coefficient = 0.8
25. Components and Cladding Loads = 20 PSF
26. Wind Base Shear, Wx = 1.5 KIPS
27. Wind Base Shear, Wy = 1.5 KIPS
28. Seismic Design Data
29. Seismic Importance Factor (Is) = 1
30. Occupancy Category = S
31. Mapped Spectral Response Acceleration Sa = 0.8
32. Mapped Spectral Response Acceleration S1 = 0.8
33. Site Class = S
34. Spectral Response Coefficient, Sds = 2.0
35. Spectral Response Coefficient, S1d1 = 2.0
36. Seismic Design Category = C
37. Building (Structural) System = Moment Resisting Steel Frame
38. Basic Seismic Force Resisting System = Moment Resisting Steel Frame
39. Seismic Response Coefficient (Cs) = 1.25
40. Response Modification Factor, R = 2.0

Mixed Occupancy: No
Separation: No

ALLOWABLE AREA AND HEIGHT CALCULATIONS EXISTING BUILDING

Table with 4 columns: Building, Area, Height, Notes

Open space area increases from Section 506.2 are computed based on:
a. Pedestrian which fronts a public way or open space having 20 feet minimum width = 0.01
b. Total Building Perimeter = 0.07
c. Ratio (P/F) = 0.07
d. W = Minimum width of public way = 8 (ft)
e. Percent of through increase = 100 [(P/F - 0.02) / 0.07] x 100 (%)
f. The perimeter increase per Section 506.2 is as follows:
a. Multi-story buildings, > 300 percent
b. Single story buildings, > 300 percent

PERCENTAGE OF WALL OPENING CALCULATIONS EXISTING BUILDING - NO CHANGE

Allowable openings per Table 704.8

WALL LEGENDS N/A

CHECK IF THE FOLLOWING ARE PRESENT AND INDICATE BY A WALL LEGEND ON ALL PLANS
Fire Partitions 708, Fire Walls 705, Fire Barriers 706, Smoke Partitions 710, Smoke Barriers 709, Shaft Enclosure 707

EXIT REQUIREMENTS EXISTING BUILDING NO CHANGE

Table with 4 columns: Building, Number of Exits, Arrangement of Exits, Notes

ACCESSIBLE PARKING EXISTING BUILDING NO CHANGE

Table with 4 columns: Building, Number of Spaces, Notes

SPECIAL APPROVALS N/A

(Describe special approvals from local jurisdictions, County or State Department of Health, NC Department of Insurance, International Code Council, etc.)

ENERGY SUMMARY EXISTING BUILDINGS NO CHANGE

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the required portion of the project information for the plans data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

THERMAL ENVELOPE

Method of Compliance: Prescriptive, Performance, Energy Cost Budget
Roofing Assembly (each assembly): Description of assembly
U-Value of total assembly: R-Value of insulation, Skylights in each assembly, U-Value of skylight, Total square footage of skylights in each assembly

Floors over unconditioned space (each assembly)

U-Value of total assembly: R-Value of insulation
Floors on grade (each assembly): Description of assembly
U-Value of total assembly: R-Value of insulation, Horizontal/Vertical requirement, Slab height

ELECTRICAL SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT
Method of Compliance: Prescriptive, Performance, Energy Cost Budget
Lighting Schedule: 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 fixture wattage specified vs. allowed, Total exterior wattage specified vs. allowed
Equipment schedule with motors (not used for mechanical systems): Motor horsepower, Number of phases, Minimum efficiency, Motor type, No. of poles

MECHANICAL SUMMARY N/A

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Method of Compliance: Prescriptive, Performance, Energy Cost Budget
Thermal zone: Winter dry bulb, Summer dry bulb, Relative humidity
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, Heat output of unit, Cooling output of unit, Boiler, Total boiler output, If oversized, state reason, Chiller, Total chiller capacity, If oversized, state reason

List equipment efficiencies: Equipment schedule with motors (mechanical systems), Motor horsepower, Number of phases, Minimum efficiency, Motor type, # of poles

Shell Variable Form N/A

Required for all Shell, Alteration to Shell and Interior Completion Permits

Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.

Mechanical: No work, Equipment not used, Tank the installed, Gas Line, Install complete operational system
Plumbing: No work, Install water service and sewer, Install building drain and water distribution main, Install complete plumbing system
Sprinkler: Install complete sprinkler system
Building: Install slab, partial, complete, Install existing walls, Install interior partitioning, partial, complete, Install ceiling, White box (additional interior completion permits are required for Certificate of Occupancy and permit)
Electrical: House panel, Service ladders to meter compartments located on buildings, Demolish wall and ceiling only, Conduit, duct, raceway in slab, Power and lighting conduits to "P" Box, Install light fixtures, Install Heat-E, Elevator, Generator, Parking lot lighting, Install complete system

Special Inspections Chapter 17

SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN THE FOLLOWING CATEGORIES AND/OR CERTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704. To schedule a pre-constructed meeting with the City of Raleigh, please call Steve Latham at (919) 516-2183 or Shelia Spang at (919) 516-2187. The main line number for the Development Services Customer Service Center is (919) 516-5495. List whom will inspect the required special inspections: Fabricator of load bearing components, Soil tests, Concrete, columns, piles, piers, pre-cast, Post tension concrete, Modular construction, Steel and connections, welds, bolts, anchors, Fire assay tests, Smoke control, Seismic, wind designs, Quality Assurance, Exterior walls, Masonry, Wood, Alternate Methods, EFS: RAJESH BHANE - G.C. TO BE DETERMINED, Other (describe), Other (describe), Owner or agent: RAJESH BHANE