

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: Buffalo Lanes Arcade Upfit
Address: 100 West Jackson Blvd Erwin, NC
Proposed Use: Upfit former tenant space to arcade

LEAD DESIGN PROFESSIONAL: Joe T. Smith, Jr.
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Building Smith Engineering & Design Joe T. Smith, Jr. 24916 (919)-736-2141 smithengineeringnc@hotmail.com

2018 NC BUILDING CODE: [] New Construction [] Shell/Core [] 1st Time Interior Completion
2018 NC EXISTING CODE: [] Prescriptive [] Alteration Level I [] History Property

BUILDING DATA
Construction Type: [] I-A [] II-A [] III-A [] IV [] V-A
Sprinklers: [] NO [] Partial [] NFPA 13 [] NFPA 13R [] Wet [] Dry

GROSS BUILDING AREA TABLE
Table with 4 columns: FLOOR, EXISTING (SQ. FT.), NEW (SQ. FT.), SUB-TOTAL. Rows include 3rd Floor, 2nd Floor, Mezzanine, 1st Floor (Upper Level), Basement (Lower Level), and TOTAL.

ALLOWABLE AREA 2,849 SQ. FT. FIT-UP
Primary Occupancy: [] Assembly [] Business [] Educational [] Factory [] Hazardous [] Institutional [] Mercantile [] Residential [] Storage

Accessory Occupancy Classification(s): B & S-1
Incidental Uses: (Table 509)
Special Provisions: (Chapter 5 - List Code Sections)

Actual Area of Occupancy A + Actual Area of Occupancy B = ≤ 1.0
Allowable Area of Occupancy A + Allowable Area of Occupancy B = N/A

Table with 5 columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE AREA, (C) AREA FOR FRONTAGE INCREASE, (D) ALLOWABLE AREA PER STORY OR UNLIMITED

*Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (FP)

ALLOWABLE HEIGHT
Table with 3 columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Rows include Building Height in Feet (Table 504.3) and Building Height in Stories (Table 504.4).

FIRE PROTECTION REQUIREMENTS

Table with 7 columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING (REQUIRED, PROVIDED), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with 4 columns: FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: [] No [X] Yes
Exit Signs: [] No [X] Yes
Fire Alarm: [] No [X] Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LF-1
[] Fire and/or smoke rated wall locations (Chapter 7)
[] Assumed and real property line locations
[X] Exterior wall opening area with respect to distance to assumed property lines (705.8)

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Table with 7 columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)
Table with 5 columns: LOT OR PARKING AREA, TOTAL # PARKING SPACES (REQUIRED, PROVIDED), # ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' ACCESS AISLE, VAN SPACES WITH 132" ACCESS AISLE, F ACCESS AISLE), TOTAL # ACCESSIBLE SPACES PROVIDED

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
Table with 10 columns: USE, WATER CLOSETS (MALE, FEMALE, UNISEX), URINALS (MALE, FEMALE, UNISEX), SHOWERS & TUBS, DRINKING FOUNTAINS (REGULAR, ACCESSIBLE)

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, ICC, etc., describe below)

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Snow (I_s), Seismic (I_e)
Live Loads: Roof, Mezzanine, Floor
Ground Snow Load:
Wind Loads: Basic Wind Speed, Exposure Category

SEISMIC CATEGORY [] A [] B [] C [] D
Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) [] I [] II [] III [] IV
Spectral Response Acceleration S_s, %g, S_1, %g
Site Classification (ASCE-7) [] A [] B [] C [] D [] E [] F

LATERAL DESIGN CONTROL:

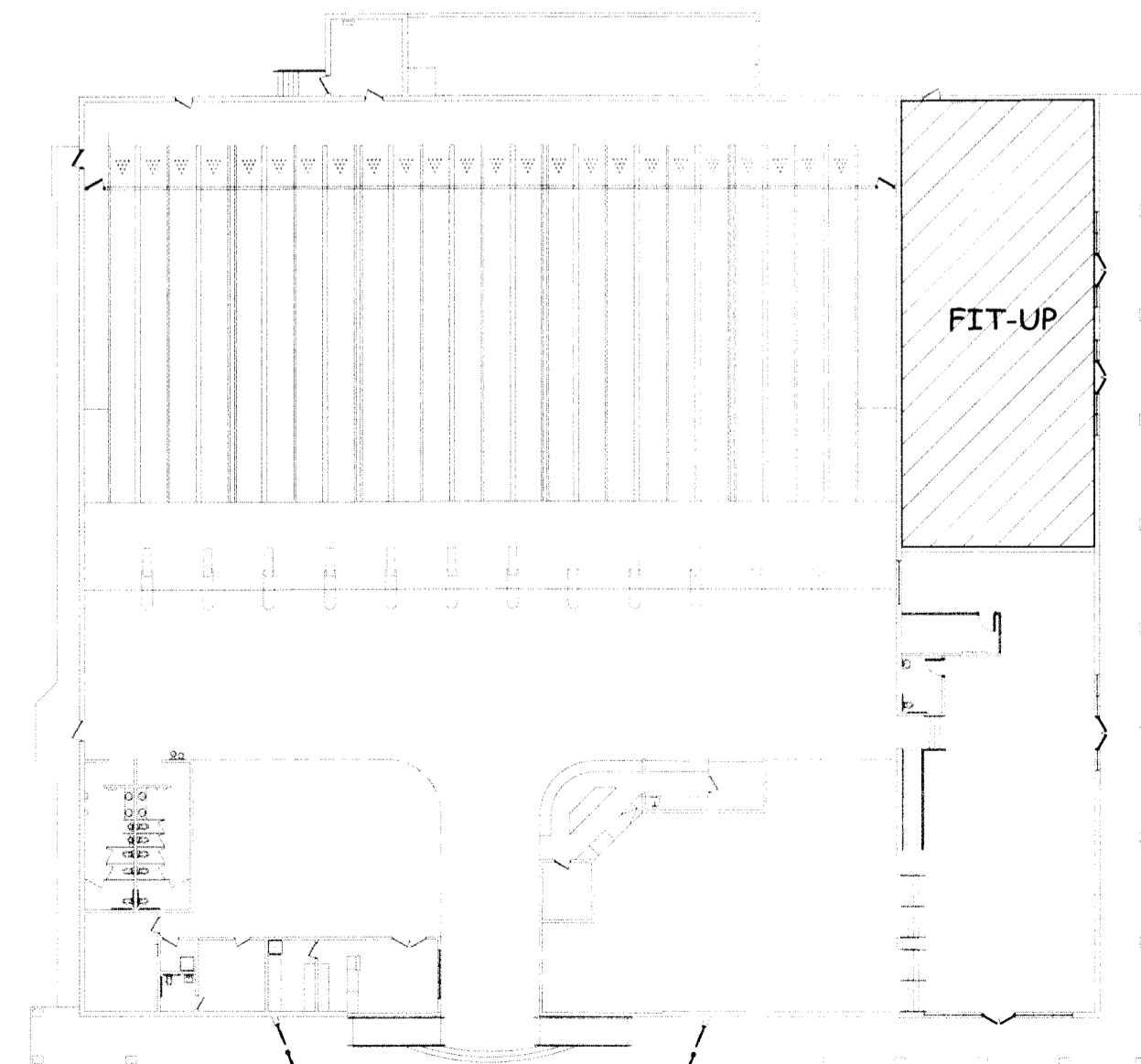
Soil Bearing Capacities:
Field Test (provide copy of test report) psf
Presumptive Bearing Capacity psf
Pile Size, Type, and Capacity

ENERGY SUMMARY

Existing building envelope complies with code: [X] (If checked, the remainder of this section is not applicable.)
Exempt Building: [] Provide code or statutory reference:

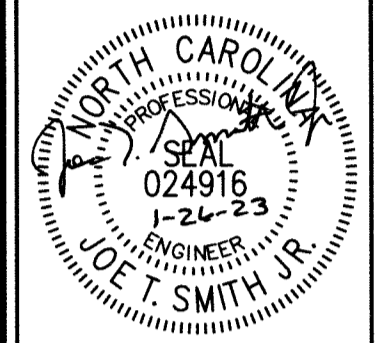
THERMAL ENVELOPE:

Roof/Ceiling Assembly (each assembly)
Description of Assembly
U-value of Total Assembly
R-value of Insulation
Skylights in each assembly
Exterior Walls (each assembly)
Description of Assembly
U-value of Total Assembly
R-value of Insulation
Openings (windows or doors with glazing)
U-Value of assembly
Solar heat gain coefficient:
Projection factor:
Door R-Values:
Walls below grade (each assembly)
Description of Assembly
U-value of Total Assembly
R-value of Insulation
Floors over unconditioned space (each assembly)
Description of Assembly
U-value of Total Assembly
R-value of Insulation
Floors slab on grade
Description of Assembly
U-value of Total Assembly
R-value of Insulation
Horizontal/vertical requirement
Slab heated



KEY PLAN

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REVISIONS table with columns for REV. DATE, DESCRIPTION.

Buffalo Lanes Arcade Upfit
100 West Jackson Blvd Erwin, NC 28539