



Waynesville Upper Elementary 0511

Occupancy Classification
 1. IBC: 305 Education
 (2000) 303 Accessory A-3: Gym, Cafeteria, Media Center, Art, Music
 2. NFPA: 6.1.3 Education (See Chapter 14)
 (2000) 6.1.2 Assembly (See chapter 12).

Construction Type
 1. IBC: 601 Type IIB
 2. NFPA: 12.1.6 11(000) if OL>1000
 14.1.6 No minimum construction requirements

Allowable Height
 1. IBC: 503 A-3: 2 story 55', E: 2 story 55'
 2. NFPA: 12.1.6 Assembly 1 level

Allowable Area
 1. IBC: 503 A-3: 9,500 s.f. per floor, E: 14,500 s.f. per floor
 506 Area Modification: *Area increase due to frontage (If)
 $If = 100(p-25)/30$ If = $100(1-25)/1 = 75$
 Allowable Area (Aa) = $A1 + (A1)(If/100)$
 Education: $Aa = 14,500 s.f. + (10,785) = 25,285 s.f.$
 Assembly: $Aa = 9500 s.f. + (7,125) = 16,625 s.f.$

Fire-Resistance-Rated Construction
 1. IBC: 601 Table Type IIB: structure, walls, floors & roof no rating required.
 705.4 Table Fire Wall rating per occupancy E, Type II(exception a) 2hr
 1004.3.2.1 Corridor Wall rating per occupancy: E-1hr w/sprink
 705.5.1 Exterior Wall intersecting Fire Wall: 1Hr. for 4'
 2. NFPA: 7.2.4.3 Fire barriers 2hrs
 7.1.3.2 Exit Access Corridor 1 hr separation
 (exception: superseded by occupancy chapter)
 Exception 1- Educ. spaces existing directly outside- no
 corridor rating required
 7.2.4.3.2 Exterior Wall intersecting Fire Wall<180°: 1Hr. for 10'
 8.2.3.2.3 Opening Protection: 2hr/1.5, 1hr/1.75 or .33

Occupancy Load
 1. IBC: 1003.2.2.2
 2. NFPA: 7.3.1.2
 E: Classrooms 1:20, Workrooms 1:100, Kitchen 1:100, Admin 1 100
 A: Gym 1:7, Stage 1:15, Cafeteria 1:15, Media Center (read) 1:50, (admin & 1.
 stacks) 1:100
 14.1.2.2 E&A O.L. not subject to simultaneous occupancy

Exit Access:
 1. IBC: 1004.2.4 200 travel with sprinklers
 1004.2.4 *75' common path of travel
 1004.3.2.3 20' Dead-end Corridor (no exception for
 sprinklers in Education Occupancy)
 100.4.2.21 Arrangement 1/3 diagonal dist., with sprinklers
 2. NFPA: 14.2.6 150' travel distance

14.2.5.3 75' common path of travel
 14.2.5.2 20' Dead-end
 7.3.1.4 Arrangement of exits 1/2 diagonal dist
 NFPA 7.10.1.2 No Exit Signs at Exit Doors in classrooms
 Glass doors opening directly to the exterior can be an
 approved (by FWH) means of indicating the exit without
 signage because they are readily visible from any direction
 of exit access.

Corridor Width
 1. IBC: Education 1004.3.2.2 72" CL>100, or Min=15" (CL)
 Assembly 1003.2.3 .15" (CL)
 2. NFPA: Education 14.2.3.1 6' clear MIN
 Assembly 12.2.3.2 *22" (CL)

Number of Exits
 1. IBC: 1004.2 E<500ft.: one exit
 501-1000 OL: 3 exits;>1000OL: 4 exits
 7.4.1&14.2.4 Two exits always
 7.2.8.3 Escape window
 7.4.1.2 501-1000 OL: 3 exits;> 1000 OL: 4 exits
 12.2.3.3 50% OL in Assembly must exit main lobby

Separation of Occupancies
 1. IBC: 302.3.3 E/A-3: 2 hour *exception: Accessory Assembly Uses to
 Education not considered separate occupancy
 Incidental use separation: 1 Hour - storage over 100 s.f.
 2. NFPA: 14.3.2.1 Hazard protection: 1 hour protection
 (Laudry, Kith Room, Electrical rooms)
 14.3.2.2 Kitchens: Openings to dining do not require protection

Fire Alarm
 1. NFPA: 14.3.4.2.3 Manual fire alarm boxes to be omitted (Alternative
 Protection System) the following conditions will be met:
 a. Interior corridors are protected by smoke detectors using
 an alarm verification system as described in NFPA 72,
 National Fire Alarm Code.
 b. Spaces such as auditoriums, cafeterias, and gymnasiums are
 protected by heat or other approved detection devices.
 c. Fire alarm signals are automatically transmitted to the public
 fire department in accordance with 9.6.4.
 d. Provision is made at a central point to manually activate the
 evacuation signal or to evacuate only affected areas.

Portable Fire Extinguishers
 NFPA 10.3-2.2, Appendix E-3.4 Travel Distance to extinguisher- 75'
 2A Low Hazard: Classrooms, Offices, Assembly
 Area served per extinguisher- 6,000sf
 2A Ordinary Hazard: Dining
 Area served per extinguisher- 3,000sf
 4A High Hazard: Kitchen, Storage
 Area served per extinguisher- 4,000sf

TOTAL SQUARE FOOTAGE
 50,369 S.F.

Engineers Seal

Architects Seal



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PROJECT # SA015-613-179
 NEW WAYNESVILLE UPPER ELEMENTARY SCHOOL
 For The BRANTLEY COUNTY BOARD OF EDUCATION
 NAHANTA, GEORGIA 31553
 Drawing Title LIFE SAFETY PLAN
 FTE:450

Drawn: []
 Checked: []
 Project No. 0511
 Date: []
 040 File No. 143 LSP100
 Drawing No.

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