

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: ALDI Inc. Address: 6113 Idlewild Road, Charlotte, NC 28212 Proposed Use: Grocery Store

LEAD DESIGN PROFESSIONAL: Eric Elizondo ms consultants, inc. 010032 614-898-7100

2012 EDITION OF NC CODE FOR: New Construction Addition Uplift EXISTING: Reconstruction Alteration Repair Renovation

BASIC BUILDING DATA Construction Type: I-A I-B IIA-A IIA-B IIV IIA-V IIA-VB IIB IIBB IIBB IIVB IIVB IIVB IIVB

Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Rows include 6th Floor, 5th Floor, 4th Floor, 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, and Basement.

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- Exterior wall opening area with respect to distance to adjacent property lines (705.8) Existing structures within 30' of the proposed building Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Table with 7 columns: TOTAL UNITS, ACCESSIBLE UNITS, TYPE A, TYPE B, TYPE C, TYPE D, TYPE E, TYPE F, TYPE G, TYPE H, TYPE I, TYPE J, TYPE K, TYPE L, TYPE M, TYPE N, TYPE O, TYPE P, TYPE Q, TYPE R, TYPE S, TYPE T, TYPE U, TYPE V, TYPE W, TYPE X, TYPE Y, TYPE Z.

ACCESSIBLE PARKING (SECTION 1106)

Table with 4 columns: TOTAL SPACES, TOTAL # OF SPACES, # OF SPACES, # OF SPACES. Rows include ALDI Lot and TOTAL.

STRUCTURAL DESIGN LOADS

Table with 2 columns: Importance Factors, Live Loads. Rows include Wind, Snow, Seismic, and Live Loads.

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ALLOWABLE AREA

Occupancy: Assembly Business Educational Factory Hazardous Institutional I-3 Condition Mercantile Residential Storage Utility and Miscellaneous

Accessory Occupancies: Assembly Business Educational Factory Hazardous Institutional I-3 Condition Mercantile Residential Storage Utility and Miscellaneous

Incidental Uses (Table 508.2.5): Furnace room where any piece of equipment is over 400,000 Btu per hour input Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower

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This separation is not exempt as a Non-Separated Use (see exceptions). Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building.

Actual Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B <= 1

Table with 6 columns: OCCUPANCY, AREA, PERCENT, PERCENT, PERCENT, PERCENT. Row 1: Mercantile, 22,245, 9,000, 3,240, 27,000, 39,240.

- 1. 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 = 580'-8" (P)

ALLOWABLE HEIGHT

Table with 3 columns: TYPE OF CONSTRUCTION, BUILDING HEIGHT FEET, BUILDING HEIGHT STORIES. Rows include Type VB and Type I.

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ENERGY SUMMARY

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Climate Zone: 3 4 5 Method of Compliance: Prescriptive (Energy Code) Performance (Energy Code)

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly): Description of assembly: 60 mil TPO, 4" Polyiso insul, mtl deck U-Value of total assembly: .032

Exterior Walls (each assembly): Description of assembly: Brick veneer, 1 1/2" rigid insul, 6" mtl studs w/spray foam insul U-Value of total assembly: .054

Walls below grade (each assembly): Description of assembly: N/A U-Value of total assembly: N/A

Floors over unconditioned space (each assembly): Description of assembly: N/A U-Value of total assembly: N/A

Floors slab on grade: Description of assembly: 4" / 5" slab over vapor barrier w/6" sub base and perimeter insul U-Value of total assembly: .1

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FIRE PROTECTION REQUIREMENTS

Table with 10 columns: REQUIREMENT, TYPE, RATED, RATED, RATED, RATED, RATED, RATED, RATED, RATED. Rows include Structural Frame, Business Walls, Stairs, etc.

LIFE SAFETY SYSTEM REQUIREMENTS: Emergency Lighting: No Yes Exit Signs: No Yes Fire Alarm: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-002, FP-101, E-101, CLP-101 (Supplemental fire protection and fire alarm by licensed contractor/vendor)

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MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone: winter dry bulb: 23 summer dry bulb: 92 Interior design conditions: winter dry bulb: 68 summer dry bulb: 74 relative humidity: 50%

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting schedule (each fixture type) - Refer to sheet E-102

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Issued: Date: A Permit Set 12/05/17 B Client Review Set 05/03/18 C Bid Set 05/11/18

Revisions: Date: 1 2 3 4 5 6 7 8 9

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DRAWN BY: MEM/KNW REVIEWED BY: JAB

Seal



ALDI Inc. Store #: 65 Charlotte, NC 6113 Idlewild Road Charlotte, NC 28212 Mecklenburg County Project Name & Location:

NC Appendix "B"

Drawing Name: Prototype Rls. 09/07/17 Project No. 40452-13 Type: LHSD-V8 Scale: As Noted Drawing No. G-004

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