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SUPERCENTER

GARNER, NC
STORE NO.: 1372-03

SF: (GROSS LEASABLE AREA) 195, 906
DATE: 07/24/07
PROTO: C-195-SGR-NO

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BUILDING CODE SUMMARY

195/C010-CODE

NAME OF PROJECT: GARNER, NC
STREET ADDRESS: HIGHWAY 401 AND PURSER DRIVE
PROPOSED USE: RETAIL

APPLICABLE CODES:
BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE; 2003 NFPA 101 LIFE SAFETY CODE
MECHANICAL CODE: PER PROJECT
PLUMBING CODE: PER PROJECT
ELECTRIC CODE: PER PROJECT
FIRE CODE: 2003 INTERNATIONAL FIRE CODE
ACCESSIBILITY CODE: PER PROJECT

MIXED OCCUPANCIES:
THIS BUILDING HAS BEEN DESIGNED PER 2003 IBC SECTIONS 302.3, 302.3.1 AND 302.3.2

SECTION 302.3 (MIXED-USE) – ALLOWS FOR MIXED OCCUPANTS TO APPLY TO BOTH SECTIONS 302.3.1 AND 302.3.2 AT THE SAME TIME.

SECTION 302.3.1 (NONSEPARATED USES) – APPLIES TO ALL OCCUPANCIES OF THE BUILDING FOR FIRE SEPARATION EXCEPT THE ASSEMBLY OCCUPANCIES. FOR NONSEPARATED USES – FIRE SEPARATIONS ARE NOT REQUIRED BETWEEN USES PER SECTION 302.3.1 EXCEPT AS REQUIRED BY OTHER PROVISIONS (NONE REQUIRED HERE).

SECTION 302.3.2 (SEPARATED USES) – APPLIES TO THE ASSEMBLY AREAS, SINCE THE ASSEMBLY AREAS ARE LESS THAN 10% OF THE TOTAL FLOOR SPACE, SECTION 302.2 APPLIES. THE ASSEMBLY AREAS ARE ACCESSORY TO THE MAIN USE. PER SECTION 302.2 FIRE SEPARATION IS NOT REQUIRED BETWEEN THE ACCESSORY USE AND THE MAIN USE.

BUILDING OCCUPANCIES:
M-MERCANTILE -WHOLESALE OR RETAIL STORE (MAIN USE) – SECT. 309.1
S1-RECEIVING AND STOCKROOMS – STORAGE AREAS (MIXED USE) – SECT. 311.2 – SECT. 311.2
A2-BREAKROOMS AND FUTURE FOOD TENANT (ACCESSORY TO MAIN USE) – SECT. 303.1

ALLOWABLE AREA:
THIS BUILDING IS DESIGNED FOR UNLIMITED AREA PER SECTION 507.2 (2003 IBC)
THIS BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON ALL SIDES BY 60 FEET MINIMUM OF PERMANENT OPEN SPACE AND COMPLIES WITH SECTION 507.2

TYPE OF CONSTRUCTION:
TYPE 2B PER SECT. 602.5 AND TABLES 601 AND 602 (2003 IBC)

FIRE PROTECTION:

HOURLY FIRE-RESISTANCE RATING REQUIREMENT PER TABLE 601	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HOURS	0 HOURS
ROOF CONSTRUCTION	0 HOURS	0 HOURS
EXTERIOR NONBEARING WALLS	0 HOURS	0 HOURS
EXTERIOR BEARING WALLS	0 HOURS	0 HOURS
INTERIOR BEARING WALLS	0 HOURS	0 HOURS
INTERIOR NONBEARING WALLS AND PARTITIONS	0 HOURS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS	0 HOURS

NUMBER OF EXITS OR EXIT ACCESS DOORS REQUIRED:
THIS BUILDING COMPLIES WITH TABLE 1014.1 (2003 IBC), TWO (2) EXITS ARE REQUIRED WHEN THE FOLLOWING OCCUPANT LOADS ARE EXCEEDED:
FOR ASSEMBLY OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED.
FOR STORAGE OCCUPANCIES GREATER THAN 30, TWO (2) EXITS ARE REQUIRED.
FOR MERCANTILE OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED.

NOTE: MERCANTILE OCCUPANT LOAD EXCEEDS 1,000 – MORE THAN FOUR (4) EXITS PROVIDED PER TABLE 1018.1.

NOTE: PER 2003 IBC & 2003 IFC, SECTION 1008.1.3.3, HORIZONTAL SLIDING DOORS ARE PERMITTED TO BE A COMPONENT OF A MEANS OF EGRESS IN ACCORDANCE WITH EXCEPTION #5 OF SECTION 1008.1.2 (BOTH CODES).
SECTION 1008.1.2, EXCEPTION #5 STATES: "IN OTHER THAN H OCCUPANCIES, HORIZONTAL SLIDING DOORS COMPLYING WITH SECTION 1008.1.3.3 ARE PERMITTED IN A MEANS OF EGRESS."
HORIZONTAL SLIDING "WON" DOORS SHOWN IN EGRESS CORRIDORS COMPLY WITH BOTH SECTIONS.

EXIT ACCESS TRAVEL DISTANCE:
250' FOR M OCCUPANCY PER 2003 IBC TABLE 1015.1 FOR SPRINKLERED BUILDINGS.
THIS BUILDING IS DESIGNED PER 2003 NFPA101 SEC. 36.2.6.2, WHICH ALLOWS 250' OF TRAVEL DISTANCE TO THE EXIT ACCESS OR THE "EXIT".

COMMON PATH OF TRAVEL:
75' FOR M OCCUPANCY PER 2003 IBC SECTION 1013.3 AND NFPA TABLE A.7.6 (100' W/SPRINKLER).
100' FOR S OCCUPANCY (STORAGE) PER 2003 IBC AND IFC SECTION 1013.3 EXCEPTION #2.

CORRIDOR FIRE-RESISTANCE:
CORRIDORS DO NOT REQUIRE FIRE SEPARATION PER 2003 IBC, TABLE 1016.1 (BUILDING IS FULLY SPRINKLERED), AND NFPA 101, SECTION 36.2.6.2. ALL EXITS ARE WITHIN THE ALLOWABLE TRAVEL DISTANCE OF 250'.

OCCUPANCY LOAD FACTORS:

MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT PER 2003 IBC TABLE 1004.1.2	
SALES (MERCANTILE – GRADE FLOOR AREAS)	30 GROSS
STORAGE (MERCANTILE – STORAGE, STOCK, SHIPPING AREAS)	300 GROSS
TRAINING, BREAK AND DINING ROOMS (ASSEMBLY W/OUT FIXED SEATING)	15 NET
BAKERY AND MEAT PREP AREAS (COMMERCIAL KITCHEN)	200 GROSS
PUMP ROOM (ACCESSORY STOAGE AREAS, MECHANICAL EQUIPMENT ROOM)	300 GROSS
OFFICE, PHARMACY, INVOICING & MANAGEMENT (BUSINESS AREAS)	100 GROSS
HAIR CARE, FUTURE BANK (BUSINESS AREAS)	100 GROSS
FOOD TENANT (ASSEMBLY AND KITCHEN)	SEE INDIVIDUAL FACTOR ABOVE
VISION CENTER AND FRONT COURTESY DESK (SALES AND BUSINESS)	SEE INDIVIDUAL FACTOR ABOVE

PLUMBING FIXTURE COUNTS:
PER TABLE 403.1 AND 403.4 (2003 IPC W/2009 NC AMENDMENTS) AND CHAPTER 29 (2003 IBC)

GROSS AREA: 191,538 SF
(GROSS AREA)(0.7) = 134,077 SF
OCCUPANT LOAD: 1 PER 100 NET AREA = 1,341 PEOPLE
LOAD DISTRIBUTION: 30% MALE AND 70% FEMALE
DISTRIBUTION COUNT: 403 MALE AND 939 FEMALE

LAVATORIES
REQUIRED: (1 PER 50) + (2 PER 51-150) + (1 PER (LOAD-150)/200) = 9
PROVIDED: 18

WATER CLOSETS
FEMALE REQUIRED: (1 PER 20) + (2 PER 21-50) + (3 PER 51-150) + (1 PER (LOAD-150)/100) = 14
FEMALE PROVIDED: 14
MALE REQUIRED: (1 PER 20) + (1 PER 21-50) + (2 PER 51-150) + (1 PER (LOAD-150)/200) = 6
MALE PROVIDED: 6

URINALS
REQUIRED: (1 PER 51-150) + (1 PER (LOAD-150)/250) = 3
PROVIDED: 6

DRINKING FOUNTAINS REQUIRED:
5,668 OCCUPANTS/1,000 = 6 DRINKING FOUNTAINS
5 FOUNTAINS PROVIDED AND 1 WATER COOLER

PER IPC SECTION 410.1 A WATER COOLER MAY BE USED IN LIEU OF A DRINKING FOUNTAIN

OCCUPANCY LOAD CALCULATIONS: / **REQUIRED EGRESS WIDTH CALCULATIONS:**

AREA	AREA (S.F.)	OCCUPANCY LOAD	WIDTH FACTOR	REQDUIRED WIDTH	WIDTH PROVIDED	
GARDEN CENTER:	COMBINED: 10,401 S.F.	= 347 OCCUPANTS		= 70"	= 132" TOTAL	
OUTSIDE LIVE GOODS:	3,831 S.F.	SF/30 = 128 OCCUPANTS	x 0.20	= 26"	33"	501A 1(3'-0") HINGED
					33"	501B 1(3'-0") HINGED
OUTSIDE BAG GOODS:	6,570 S.F.	SF/30 = 219 OCCUPANTS	x 0.20	= 44"	33"	502A 1(3'-0") HINGED
					33"	502F 1(3'-0") HINGED

OCCUPANCY LOAD = (SQUARE FOOTAGE) / (OCCUPANCY LOAD FACTOR)
OCCUPANCY LOAD FACTOR = REFER TO OCCUPANCY LOAD FACTOR TABLE
REQUIRED EGRESS WIDTH = (OCCUPANCY LOAD) x (EGRESS WIDTH FACTOR)
EGRESS WIDTH FACTOR = 0.20 INCHES

AREA	AREA (S.F.)	OCCUPANCY LOAD	WIDTH FACTOR	REQUIRED WIDTH	WIDTH PROVIDED	DOORS NUMBERS AND SIZES
INDOOR SALES	COMBINED: 147,350 S.F.	= 4,912 OCCUPANTS		= 983"	997" TOTAL	
MAIN SALES AREA:	147,350 S.F.	SF/30 = 4,912 OCCUPANTS	x 0.20	= 983"	256" CLEAR SPACE	GM "ENTRY"
					228" CLEAR SPACE	GR "ENTRY"
					90"	100L 2(4'-0") HINGED
					90"	100M 2(4'-0") HINGED
					90"	100N 2(4'-0") HINGED
					33"	500J (3'-0") HINGED
					33"	110B 1(3'-0") HINGED
					66"	150A 2(3'-0") HINGED
					45"	162F 1(4'-0") HINGED
					66"	918A 2(3'-0") HINGED
STORAGE	COMBINED: 20,376 S.F.	= 70 OCCUPANTS		= 18"	450" TOTAL	
ST RM 917:	533 S.F.	SF/300 = 2 OCCUPANTS	x 0.20	= 1"	102"	918C (8'-6") HORIZ SLIDER
ST RM 919:	283 S.F.	SF/300 = 1 OCCUPANT	x 0.20	= 1"	102"	918B (8'-6") HORIZ SLIDER
ST RM 923:	647 S.F.	SF/300 = 3 OCCUPANTS	x 0.20	= 1"	90"	150L 2(4'-0") HINGED
STOCKROOM 179:	3,341 S.F.	SF/300 = 12 OCCUPANTS	x 0.20	= 3"	33"	179B 1(3'-0") HINGED
RECEIVING 178:	15,305 S.F.	SF/300 = 51 OCCUPANTS	x 0.20	= 11"	33"	178A 1(3'-0") HINGED
PUMP ROOM:	267 S.F.	SF/300 = 1 OCCUPANT	x 0.20	= 1"	45"	159G 1(4'-0") HINGED
					45"	100W 1(4'-0") HINGED
ANCILLARY	COMBINED: 17,685 S.F.	= 542 OCCUPANTS		= 113"	880" TOTAL	
TRAINING ROOM:	500 S.F.	SF/ 15 = 34 OCCUPANTS	x 0.20	= 7"	33"	172A 1(3'-0") HINGED
BREAKROOMS:	1,107 S.F.	SF/ 15 = 74 OCCUPANTS	x 0.20	= 15"	45"	151B 1(4'-0") HINGED
					33"	151G 1(3'-0") HINGED
BAKERY AND DELI:	2,459 S.F.	SF/200 = 13 OCCUPANTS	x 0.20	= 3"	57"	OPEN TO SALES AREA
INVOICING AND UPC/UPS:	280 S.F.	SF/100 = 3 OCCUPANTS	x 0.20	= 1"	33"	171A 1(3'-0") HINGED
MANAGEMENT:	272 S.F.	SF/100 = 3 OCCUPANTS	x 0.20	= 1"	33"	175A 1(3'-0") HINGED
LP OFFICE:	138 S.F.	SF/100 = 2 OCCUPANTS	x 0.20	= 1"	33"	119A 1(3'-0") HINGED
PHARMACY OFFICE:	605 S.F.	SF/100 = 7 OCCUPANTS	x 0.20	= 2"	33"	300G 1(3'-0") HINGED
CUSTOMER SERVICE:	519 S.F.	SF/ 30 = 18 OCCUPANTS	x 0.20	= 4"	96"	OPEN TO SALES AREA
FRONT COURTESY DESK:					226"	OPEN TO SALES AREA
SALES AREA	768 S.F.	SF/ 30 = 26 OCCUPANTS	x 0.20	= 6"		
OFFICE AREA	313 S.F.	SF/100 = 4 OCCUPANTS	x 0.20	= 1"		
INDOOR SALES:	10,724 S.F.	SF/ 30 = 358 OCCUPANTS	x 0.20	= 72"	129"	500L 12'-0" (ALL) HINGED SLIDERS
(GARDEN CENTER)					129"	500M 12'-0" (ALL) HINGED SLIDERS
TENANT AREAS	COMBINED: 6,394 S.F.	= 144 OCCUPANTS		= 31"	1,457" TOTAL	
FOOD TENANT AREA:						
KITCHEN AREA	944 S.F.	SF/200 = 5 OCCUPANTS	x 0.20	= 1"	33"	402A 1(3'-0") HINGED
DINING AREA	1,044 S.F.	SF/ 15 = 70 OCCUPANTS	x 0.20	= 14"	169"	OPEN TO SALES AREA
					40"	
HAIR CARE AREA:	720 S.F.	SF/100 = 8 OCCUPANTS	x 0.20	= 2"	33"	810E 1(3'-0") HINGED
					168"	OPEN TO SALES AREA
TENANT AREA:	897 S.F.	SF/100 = 9 OCCUPANTS	x 0.20	= 2"	120"	802B (10'-0" OPEN TO SALES)
					120"	803B (10'-0" OPEN TO SALES)
					33"	802A 1(3'-0") HINGED
					33"	803A 1(3'-0") HINGED
FUTURE TENANT AREA:	608 S.F.	SF/100 = 7 OCCUPANTS	x 0.20	= 2"	323"	OPEN TO SALES AREA
PORTRAIT STUDIO:	425 S.F.	SF/100 = 5 OCCUPANTS	x 0.20	= 1"	64"	OPEN TO SALES AREA
VISION CENTER AREA:					321"	OPEN TO SALES AREA
SALES AREA	916 S.F.	SF/ 30 = 31 OCCUPANTS	x 0.20	= 7"		
BUSINESS AREA	840 S.F.	SF/100 = 9 OCCUPANTS	x 0.20	= 2"		
TOTAL NET FLOOR AREA PER 2003 IBC, SECTION 1002.1 =	191,538 S.F.	= 5,667 OCCUPANTS		=1,144"	= 3,780"	

ACCESSORY EGRESS WIDTH CALCULATIONS

ACCESSORY SPACES EXITING THROUGH THE PRIMARY SPACES

EXITING COMPLIES WITH 2003 IBC SECTION 1004.1.3

ACCESSORY SPACE	OCCUPANT LOAD	% EXITING THROUGH SALES
STOCKROOM 917	2	100% = 2
STOCKROOM 919	1	100% = 1
STOCKROOM 923	3	100% = 3
RECEIVING 178	51	50% = 26
TRAINING ROOM	34	50% = 17
BREAKROOMS	74	50% = 37
BAKERY AND DELI	13	100% = 13
INVOICING-UPC-UPS	3	50% = 2
MANAGEMENT	3	50% = 2
LP OFFICE	2	100% = 2
PUMP ROOM	1	50% = 1
PHARMACY	7	100% = 7
CUSTOMER SERVICE	18	100% = 18
FRONT COURTESY DESK	30	100% = 30
FOOD TENANT	75	50% = 38
HAIR CARE	8	50% = 4
TENANT AREA	9	50% = 5
FUTURE TENANT AREA	7	50% = 4
PORTRAIT STUDIO	5	100% = 5
VISION CENTER	40	50% = 20
	TOTAL = 386	TOTAL = 237

ACCESSORY LOAD EXITING THRU INDOOR SALES: 237
OCCUPANT LOAD INDOOR SALES: 4,912
TOTAL OCCUPANT LOAD INDOOR SALES: 5,149
EGRESS WIDTH FACTOR: X .20
TOTAL EGRESS WIDTH REQD FROM INDOOR SALES: 1,030

TOTAL EGRESS WIDTH PROVIDED FROM INDOOR SALES = 1,030 INCHES

TOTAL EGRESS WIDTH PROVIDED AT MAIN ENTRANCES = 484 INCHES

TOTAL EGRESS WIDTH PROVIDED AT FRONT WALL = 787 INCHES

GREATER THAN TWO-THIRDS OF REQUIRED EGRESS PASS THROUGH FRONT WALL OF BUILDING AND COMPLIES WITH NFPA 101 SECTION 36.2.5.7.

NOTE : ALL AREAS WITH 50 % EGRESS EXITING THROUGH MAIN SALES ARE PROVIDED WITH SECONDARY MEANS OF EXITING THAT DOES NOT PASS THROUGH SALES AREA.

NOTE: BUILDING EGRESS DOES NOT INCLUDE THE GARDEN CENTER AREAS. THE AREA DESIGNATED AS OUTSIDE LIVE GOODS AND OUTSIDE BAG GOODS ARE OPEN TO THE SKY. THERE IS NO ROOF OVERHEAD.

OUTDOOR SALES EGRESS WIDTH REQUIREMENT
OUTDOOR EXITING COMPLIES WITH SECTION 1004.8. EXITING DOES NOT PASS THROUGH BUILDING.

BUILDING SQUARE FOOTAGE
TOTAL GROSS SQUARE FOOTAGE IS 208,899 PER DEFINITION OF GROSS FLOOR AREA (IBC 1002.1)

SHEET NOTES

1. BUILDING WILL BE FULLY SPRINKLERED AS REQUIRED BY CONTRACT DOCUMENTS. SUBMIT FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (FIRE DEPARTMENT, FIRE MARSHAL ETC). OBTAIN ALL APPROVALS PRIOR TO FABRICATION OR INSTALLATION.

2. OWNER WILL PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.

3. WAL-MART'S ALARM CENTRAL ENGINEERING TEAM HAS CONTACTED THE AUTHORITY HAVING JURISDICTION FOR PRE-PLAN DATA ABOUT STATE AND LOCAL REQUIREMENTS THAT DIFFER FROM THE NATIONALLY PUBLISHED CODES AND STANDARDS. A COMPLETE SITE SPECIFIC SUBMITTAL IS BEING MADE DIRECTLY TO THE AUTHORITY HAVING JURISDICTION. QUESTIONS SHOULD BE DIRECTED TO 1-800-530-9924, OPTION 3.

4. THE MAXIMUM STORAGE HEIGHT IS TWELVE FEET EXCEPT IN ROOM 178, 179 AND 502. STOCKROOM 178 WILL HAVE A STACKING HEIGHT OF 16 FEET, AND STOCKROOM 179 AND 502 WILL HAVE A STACKING HEIGHT OF 15 FEET OF CLASS I-IV COMMODITIES IN FIXED, SINGLE AND DOUBLE ROW RACKS. THE STACKING HEIGHT OF THE ROLLING RACK AREA WILL NOT EXCEED 12 FEET.

5. REFER TO SPECIFICATION 01640 – OWNER FURNISHED PRODUCT: THIS SECTION INCLUDES SPECIFIC INFORMATION REGARDING ITEMS AND SERVICES TO BE FURNISHED AND INSTALLED BY INDIVIDUALS OTHER THAN THE GENERAL CONTRACTOR. ALL ITEMS SHOWN DASHED REFER TO SPECIFICATIONS.

6. GENERAL CONTRACTOR TO PROVIDE AND INSTALL LOCK BOX. GENERAL CONTRACTOR TO COORDINATE TYPE OF BOX AND LOCATION WITH FIRE DEPARTMENT OFFICIAL.

ARCHITECTURAL:	GROCERY ARCHITECTURAL CONSULTANT:	CIVIL	STRUCTURAL:	MECHANICAL	PLUMBING	FIRE PROTECTION	ELECTRICAL:
STEVEN J. RUTH, AIA 11911 FREEDOM DRIVE SUITE 1120 RESTON, VA 20190 CONTACT: JAY FREIHA (703) 668-0086	BRR ARCHITECTS, INC 6700 ANTIOCH PLAZA, SUITE 300 MERRIAM, KANSAS 66204 CONTACT: AMY PYLE (913) 262 9095	FREELAND AND KAUFMAN, INC. 209 W. STONE AVE. GREENVILLE, SC 29609 CONTACT: MIKE LUKUS (864) 672-3413	JOHNSTON BURKHOLDER ASSOCIATES ENGINEER OF RECORD 930 CENTRAL KANSAS CITY, MISSOURI 64105 CONTACT: DEVIN RILEY (816) 421-4200	PAUL C PARK ENGINEERING 121 WEST WALNUT STREET ROGERS, AR 27256 CONTACT: RICK ZINK (479) 636-5004	PAUL C PARK ENGINEERING 121 WEST WALNUT STREET ROGERS, AR 27256 CONTACT: RICK ZINK (479) 636-5004	PAUL C PARK ENGINEERING 121 WEST WALNUT STREET ROGERS, AR 27256 CONTACT: NICK WEAVER (479) 636-5004	PAUL C PARK ENGINEERING 121 WEST WALNUT STREET ROGERS, AR 27256 CONTACT: RANDY STIDHAM (479) 636-5004

Aug. 27, 2007 – 9:48am – USER Steve_T_DC
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