

Harris Teeter

Remodel of Store No. 149

Northwood Square

Rock Hill, SC

PERMIT SET - 04/27/12
O.C. REVISIONS - 05/08/12
OWNER REVISIONS - 05/14/12
OWNER REVISIONS - 05/16/12
APPENDIX # - 05/29/12
OWNER REVISIONS - 07/03/12

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FOR ALL COMMERCIAL PROJECTS

Name of Project: Harris Teeter #149
 Address: 2750 Calanese Road, Rock Hill, SC 29730
 Proposed Use: Mercantile
 Owner or Authorized Agent: Rajeev Bhawe
 Owned By: Harris Teeter
 City/County: _____ Private: _____ State: _____
 County: _____

City/County: _____
 Private: _____ State: _____
 County: _____

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 County: _____

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 Private: _____ State: _____
 County: _____

LEAD DESIGN PROFESSIONAL:

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	E-MAIL
Architectural	ARCONS Design Studio	Rajeev Bhawe	4503	704.542.5252	
Civil					
Electrical	Brandt Engineering Inc.	John Parker	22973	804.794.6656	
Fire Alarm	Brandt Engineering Inc.	John Parker	22973	804.794.6656	
Plumbing	Brandt Engineering Inc.	John Parker	22973	804.794.6656	
Mechanical	Brandt Engineering Inc.	John Parker	22973	804.794.6656	
Sprinkler-Standpipe					
Structural	Bandurant Associates	Herbert L. Bandurant, III		757.398.0683	
Refrigeration	OchsnerEFS	Dean Ochsner	24646	704.541.4144	

YEAR EDITION OF CODE: 2006 IBC

New Construction Renovation (Existing Bldg.) Uprift Alteration

BUILDING DATA

2009 - IBC

Construction Type: A-1 A-2 A-3 A-4 A-5
 B-1 B-2 B-3 B-4 B-5
 C-1 C-2 C-3 C-4 C-5
 D-1 D-2 D-3 D-4 D-5
 E-1 E-2 E-3 E-4 E-5

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Education Factory-Industrial F-1 F-2
 High-Hazard H-1 H-2 H-3 H-4 H-5
 Institutional I-1 I-2 I-3 I-4
 1-3 Use Condition 1 2 3
 Mercantile Residential R-1 R-2 R-3 R-4 R-5
 Storage S-1 S-2 High-piled
 Utility and Miscellaneous Parking Garage Open Enclosed Repair

Special Occupancy: NONE

Mixed Occupancy: NONE

Separated Mixed Occupancy (508.3.2)

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. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Mixed Occupancy (508.3.3) - See below for area calculations

For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} = \leq 1$$

Actual Area of Occupancy A + Allowable Area of Occupancy B = ≤ 100

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503.5 AREA	(C) AREA FOR OPEN SPACE INCREASE	(D) AREA FOR SPRINKLER INCREASE	(E) ALLOWABLE AREA OR UNLIMITED	(F) MAXIMUM BUILDING AREA*
Single Level	Supermarket	48,505 sf	12,500	N/A	N/A	Unlimited	Per 507.3

1 Open space area increases from Section 508.2 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) = (R)
 d. W = Minimum width of public way = (W)
 e. Percent of frontage increase I = 100 [(F/P) - 0.25] x W/30 = (X)

2 The sprinkler increase per Section 508.3 is as follows:
 a. Multi-story building is 200 percent
 b. Single story building is 300 percent

3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4, (507.1, 507.2, 507.3, 507.4, 507.5); Group A, million picture (507.10); Malls (402.6); and H-2 aircraft part hangars (507.6).

4 Maximum Building Area = total number of stories in the building X E but not greater than 3 X E.

5 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Building Hgt. in Feet	Type I-B	Type II-B		602.2
Building Hgt. in Feet	Type III-B	Type III-B		504.2
Building Hgt. in Stories	Type III-B	Type III-B		507.3

FIRE PROTECTION REQUIREMENTS *** Existing to Remain - No Change ***

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RED'D	RATING PROVIDED (W/ REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR PENETRATED	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and Partitions							
Exterior							
North							
East							
West							
South							
Interior							
Floor Construction including supporting beams and joists **							
No. _____	Yes _____	Yes _____	Yes _____	Yes _____	Yes _____	Yes _____	Yes _____
Type: _____	_____	_____	_____	_____	_____	_____	_____
Wet _____	_____	_____	_____	_____	_____	_____	_____
Roof Construction including supporting beams and joists							
Shafts - Exit							
Shafts - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							

* Indicate section number permitting reduction ** Ceiling panels are not a part of floor assembly.

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes
 Panic Hardware: No Yes

N.C. = Non Combustible
 N.R. = Not Required
 N/A = Not Applicable

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,2} (SECTION 1016.1)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE BETWEEN EXIT DOORS	REQUIRED DISTANCE SHOWN ON PLANS	ACTUAL DISTANCE SHOWN ON PLANS
SUPERMARKET	4	4	250'	207'-0"	1/3 Diagonal	158'-0"
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.
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.
Total	48,505	1,435 Occ.			5"	216" 38" 448"

1 Corridor Dead Ends (Section 1017.3)
 2 Single Exits (Table 1016.2)
 3 Common Path of Travel (Section 1013.3)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION FOR SUPERMARKET	EXIT WIDTH (m) ^{2,3,4,5,6}		REQUIRED WIDTH (Section 1005.1)		ACTUAL WIDTH SHOWN ON PLANS	
	(a)	(b)	STAIR LEVEL	LEVEL	STAIR LEVEL	LEVEL
Grade Floor	41.783	30 / 1,393	2	15	N/A	209"
Storage / Stock	5,197	300 / 17	2	15	N/A	3"
Mezzanine	1,525	60 / 25	2	15	5"	4"
Total	48,505	1,435 Occ.			5"	216" 38" 448"

* See Table 1004.1.1 to determine whether net or gross area is applicable.
 See definition "Area, Gross" and "Area, Net" (Section 1000).

2 Footnote deleted

3 Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1006.1)

4 Minimum width of exit passageway (Section 1012.1)

5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)

6 Assembly Occupancies (Section 1023)

PLUMBING FIXTURES PROVIDED *** Fixtures are Existing - No Change ***

OCCUPANCY and Occ. Load per Plumbing Code Table 403.1	WATER CLOSETS		URINALS	LAVATORIES		SHOWERS/DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR ACCESSIBLE
Mercantile							

ACCESSIBLE PARKING *** No Modification to Existing Parking ***

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES W/ 8' ACCESS AISLE
EXISTING TO REMAIN							

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

SCHEDULE OF SPECIAL INSPECTION SERVICES

No special inspections required for this project Special inspections required

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows:

- IT-1 Verification of Soils
- IT-2 Excavation and Fill
- IT-3 Piling and Drilling Piers
- IT-4 Modular Retaining Walls
- IT-5 Reinforced Concrete
- IT-6 Post Tension Slab
- IT-7 Pre-Cast Concrete Erection
- IT-8 Pre-Stressed Concrete
- IT-9 Inspection of Pre-Cast Fabricators
- IT-10 Inspection of Structural Steel Fabricators
- IT-11 Structural Masonry
- IT-12 Welding
- IT-13 High Strength Bolts and Steel Framing Ins.
- IT-14 Sprayed Fire Resistance Materials
- IT-15 Exterior Insulation and Finish System
- IT-16 Seismic Resistance
- IT-17 Smoke Control
- IT-18 Detention Basin
- IT-19 Special Cases

Check the above boxes for the special inspection required for this project and list below specific special inspections required under chapter 17.

ENERGY SUMMARY *** No Modification to Existing Thermal Envelope ***

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

THERMAL ENVELOPE Thermal Zone: 7A

METHOD OF COMPLIANCE:

Prescriptive Performance Energy Cost Budget

*** See Mechanical Drawings for Energy Summary Data ***

STRUCTURAL DESIGN

SEE STRUCTURAL DOCUMENTS FOR STRUCTURAL DESIGN STATEMENT

ELECTRICAL SYSTEM AND EQUIPMENT

SEE ELECTRICAL DOCUMENTS FOR ELECTRICAL DESIGN STATEMENT

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

SEE MECHANICAL DOCUMENTS FOR MECHANICAL DESIGN STATEMENT

FLOOD HAZARD ZONE

NO CIVIL WORK BEING PERFORMED

VICINITY MAP