

Harris Teeter

Store No. 367 14520 John Rex Blvd. Raleigh, NC Addition of Pharmacy Drive-Thru



7621 Little Ave Suite 216
Charlotte, North Carolina 28226
P: 704-542-5262 F: 704-542-2330

HT #367
FALLS OF THE NEUSE
RALEIGH, NC

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PERMIT SET - 09.05.11
REVISION 11.10.11

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: Harris Teeter # 367
Address: 14520 John Rex Blvd., Raleigh, NC
Proposed Use: Mercantile
Owner or Authorized Agent: Rakev Bhawe Phone # 704.542.5252
Dened By: Harris Teeter City/County Private State
Code Enforcement Jurisdiction: City Raleigh County _____

LEAD DESIGN PROFESSIONAL: RAKEV BHAVE

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	E-MAIL
Architectural	ARCONS Design Studio	Rakev Bhawe	9656	704.542.5252	
Civil	WSP SELLS	Edward Tang	PE 26386	919.878.0035	
Electrical	Teeter Engineering	William Lee Teeter	20094	704.376.2999	
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	Structural Integrity	T.J. Philbrick	24578	704.541.3202	
Refrigeration					

YEAR EDITION OF CODE: 2009 - NCBC
 New Construction Renovation (Existing Bldg.) Upfit Alteration

BUILDING DATA 2009 - IBC
Construction Type: I-A/I I-B/I I-A/VP I-B/VP I-A/W I-B/W I-A/W/VP I-B/W/VP
 III-B/W/VP III-W/VP V-A/VP V-B/VP
 Mixed Construction No. Yes Types: _____

Sprinklers: No Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Type: I II III Wet Dry
Fire District: No Yes
Building Height: 31' Feet 1 Number of Stories Unlimited per _____
Mezzanine: No Yes
High Rise: No Yes Central Reference Sheet # (if provided) _____

Gross Building Area (sq. ft.): _____ RENO/UPFIT
FLOOR EXISTING NEW UPFIT

Mezzanine	1,625	
1st Floor	48,777	488 Exterior Canopy
TOTAL	50,302	488

ALLOWABLE AREA - EXISTING TO REMAIN
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
 I-3 Use Condition 1 2 3 4 5
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 S-2 High-piled
 Utility and Miscellaneous Parking Garage Open Enclosed Repair

Secondary Occupancy: NONE
Special Occupancy: 509.2 509.3 509.4 509.5 509.6 509.7 509.8
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-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.
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503.5 AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
Single Level	Supermarket	50,302	12,500	N/A	N/A	Unlimited	Unlimited Per 507.3
Single Level	Other Retail						

¹ Open space area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (P)
b. Total Building Perimeter = (F/P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
e. Percent of frontage increase = $1 = 100 \left[\frac{F}{P} - 0.25 \right] \times W / 30 = (\%)$
² The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building $I_s = 200$ percent
b. Single story building $I_s = 300$ 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 motion picture (507.10); Malls (402.6); and H-2 aircraft paint hangars (507.8).
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 - EXISTING TO REMAIN

ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE	
Type of Construction	Type II-B	Type II-B	602.2	
Building Hgt. in Feet	Feet 55	Feet=H+20'= 75	Feet 42'-2"	504.2
Building Hgt. in Stories	Stories 1	Stories=1+ 5	Stories 1	507.3

FIRE PROTECTION REQUIREMENTS - EXISTING TO REMAIN

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RED ¹	RATING PROVIDED (W/REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATED	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	X	X	X	X	X	X	X
Bearing Walls	X	0	X	X	X	X	X
Exterior	X	0	X	X	X	X	X
North	X	0	X	X	X	X	X
East	X	0	X	X	X	X	X
West	X	0	X	X	X	X	X
South	X	0	X	X	X	X	X
Interior	X	0	X	X	X	X	X
Nonbearing walls and Partitions	X	N.C.	N.C.	X	X	X	X
Exterior	X	0	X	X	X	X	X
North	X	0	X	X	X	X	X
East	X	0	X	X	X	X	X
West	X	0	X	X	X	X	X
South	X	0	X	X	X	X	X
Interior	X	N.C.	N.C.	X	X	X	X
Floor Construction including supporting beams and joists **	X	0	X	X	X	X	X
Roof Construction including supporting beams and joists	X	0	X	X	X	X	X
Shafts - Exit	X	0	X	X	X	X	X
Shafts - Other	X	0	X	X	X	X	X
Corridor Separation	X	N.R.	N.R.	X	X	X	X
Occupancy Separation	X	N/A	N/A	X	X	X	X
Party/Fire Wall Separation	X	N/A	N/A	X	X	X	X
Smoke Barrier Separation	X	N/A	X	X	X	X	X
Tenant Separation	X	N/A	X	X	X	X	X

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

LIFE SAFETY SYSTEM REQUIREMENTS - EXISTING TO REMAIN

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 - EXISTING TO REMAIN

FLOOR, ROOM OR SPACE DESIGNATION	NUMBER OF EXITS REQUIRED	MINIMUM ² NUMBER OF EXITS SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE (TABLE 1015.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT OF EXITS	MEANS OF EGRESS ^{3,4} (SECTION 1015.1)
-	-	-	-	-	1/3 Diagonal	-

¹ Corridor Dead Ends (Section 1017.3)
² Single Exit (Table 1019.2)
³ Common Path of Travel (Section 1013.3)

EXIT WIDTH - EXISTING TO REMAIN

USE GROUP OR SPACE DESCRIPTION FOR SUPERMARKET	AREA ¹ sq. ft.		EGRESS WIDTH PER OCCUPANT (Table 1005.1)	REQUIRED WIDTH PER OCCUPANT (Section 1005.1)			EXIT WIDTH (IN) ^{2,3,4,5,6}		
	(a)	(b)		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
Sales Floor			.2	.15					
Storage / Stock			.2	.15					
Mechanical Mezzanine			.2	.15					
Mezzanine Other			.2	.15					
Total									

¹ See Table 1004.1.1 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area, Net" (Section 1002).
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 1021.2)
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 1025).

PLUMBING FIXTURE REQUIREMENTS - EXISTING TO REMAIN

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

PLUMBING FIXTURES PROVIDED - EXISTING TO REMAIN

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

ACCESSIBLE PARKING *** See Attached Site Development Drawings ***

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

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, SBDO, 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 Insp.
- IT-14 Sprayed Fire Resistance Materials
- IT-15 Exterior Insulation and Finish System
- IT-16 Seismic Resistance
- IT-17 Smoke Control
- IT-18 Deterioration Basin
- IT-19 Special Cases

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

ENERGY SUMMARY - EXISTING TO REMAIN

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also 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: _____
METHOD OF COMPLIANCE:
 Prescriptive Performance Energy Cost Budget

STRUCTURAL DESIGN

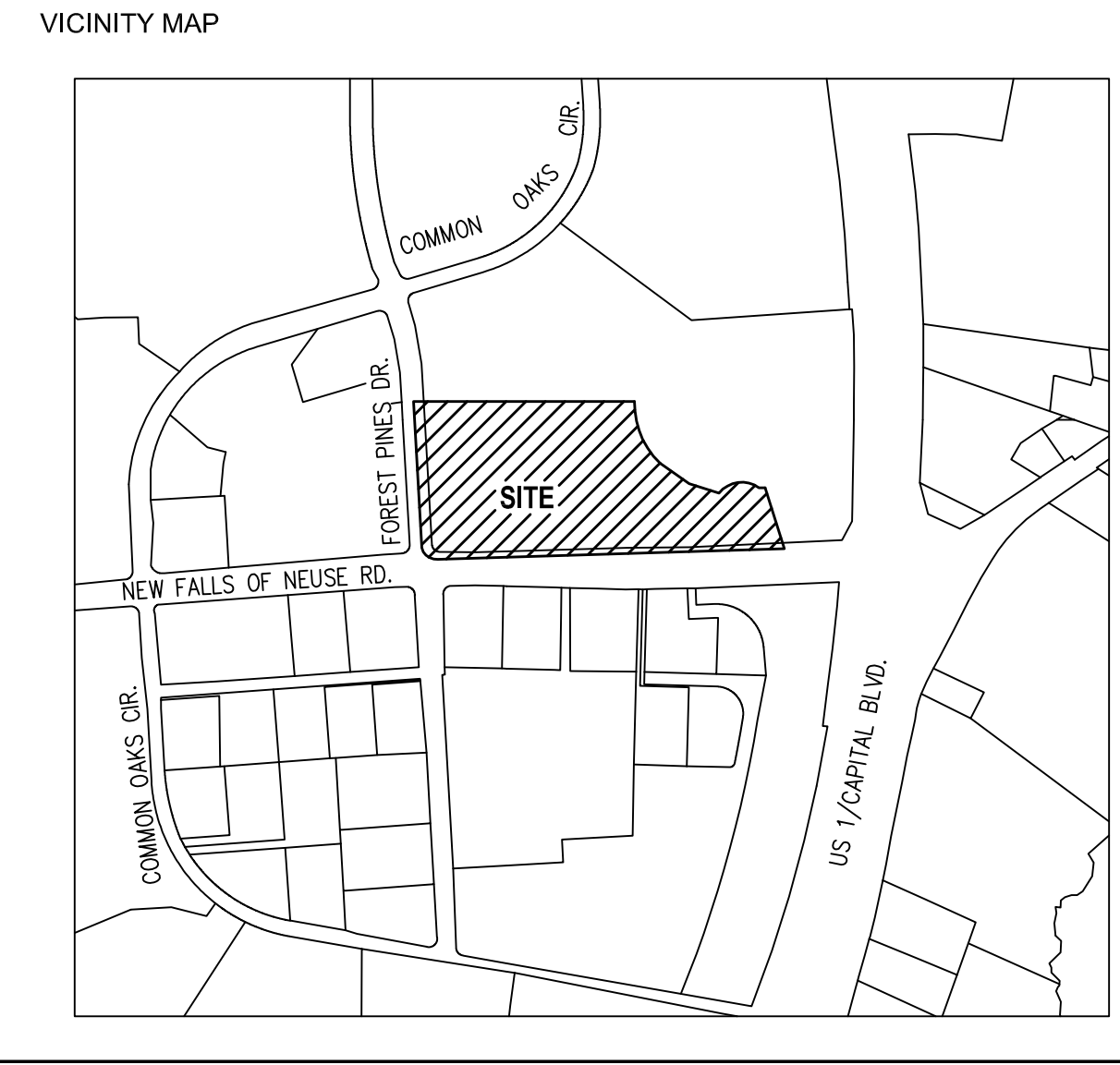
EXISTING BUILDING TO REMAIN
SEE STRUCTURAL SHEETS FOR DESIGN INFORMATION.

ELECTRICAL SYSTEM AND EQUIPMENT

SEE ELECTRICAL DOCUMENTS FOR ELECTRICAL DESIGN STATEMENT
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
** EXISTING TO REMAIN **

LEGEND

	CMU BLOCK WALL		SECTION MARKER
	STUD WALL		DETAIL MARKER
	BRICK VENEER		DETAIL MARKER
	FREEZER/COOLER WALLS		SHEET NUMBER
	WALL TYPE MARKER		ELEVATION MARKER
	WINDOW MARKER		
	DOOR MARKER		
	CHANGE BUBBLE		



COVER SHEET

ISSUE DATE: 09.05.11
SHEET NO. **C1**