

JUN 2004 FAX 774 6016

BOCA® NATIONAL BUILDING CODE/1999 PLAN REVIEW RECORD

Valuation: \$3,830,408 Plan Review # 040612
 Fee: 34,525.00 Date: 6/22/04

JURISDICTION: FORT LAUDERDALE
 BUILDING LOCATION: 191 RIVERSIDE ST.

BUILDING DESCRIPTION: AUTO DEALERSHIP
 OFFICES/REPAIR FACILITY/STORAGE

REVIEWED BY: [Signature]

NUMERALS indicated in parenthesis are applicable code sections of the 1999 BOCA National Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

No	DESCRIPTION	Code Section
1	1-17 & 114	
	M1 20' x 20' SR 2200 CFM	
	ACME XTW 24 (NO FD)	
	NO FD SHOWN ON HVAC SUPPLY	
	NO FD ON EF-3	
	M2 NO FD SHOWN ON HVAC 4	
	SUP/RET.	
	ANO ON 20' x 20' SF	
	M3 HVAC 12' x 3' SUP	
	STAIR 3 DUCT PENETRATION	
	M4 - STAIR WAY 1 PENETRATION	

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BUILDING EVALUATION SUMMARY (Table 3408.7)

Existing use group _____ Proposed use group _____
 Year building was constructed _____ Height _____
 Type of construction _____ Number of stories _____
 Area per floor _____
 Percentage of open perimeter _____ %
 Completely suppressed: Yes _____ No _____
 Compartmentation: Yes _____ No _____
 Fire resistance rating of vertical opening enclosures: Yes _____ No _____
 Type of HVAC system _____ serving number of floors _____
 Automatic fire detection: Yes _____ No _____
 Fire alarm system: Yes _____ No _____
 Smoke control: Yes _____ No _____
 Adequate exit routes: Yes _____ No _____
 Maximum exit access travel distance: Yes _____ No _____
 Means of egress lighting: Yes _____ No _____
 Fire safety (FS) _____
 Means of egress (ME) _____
 General safety (GS) _____

3408.6.1 Egress lighting	Pass
3408.6.2 Egress area	Pass
3408.6.3 Compartmentation	Pass
3408.6.4 Tenant and dwelling unit separations	Pass
3408.6.5 Corridor walls	Pass
3408.6.6 Vertical openings	Pass
3408.6.7 HVAC systems	Pass
3408.6.8 Automatic fire detection	Pass
3408.6.9 Fire alarm system	Pass
3408.6.10 Smoke control	Pass
3408.6.11 Means of egress	Pass
3408.6.12 Dead ends	Pass
3408.6.13 Max. exit access travel distance	Pass
3408.6.14 Elevator control	Pass
3408.6.15 Means of egress lighting	Pass
3408.6.16 Mixed use groups	Pass
3408.6.17 Sprinklers	Pass
3408.6 Specific occupancy area protection	Pass

g score -- total value _____
 to applicable value _____

BUILDING SAFETY EVALUATION SCORE (Table 3408.9)

Formula	Table 3408.7	Table 3408.8	Score	Pass	Fail
FS-MFS ≥ 0	(FS)	(MFS)	=		
ME-MME ≥ 0	(ME)	(MME)	=		
GS-MGS ≥ 0	(GS)	(MGS)	=		

FS = Fire Safety
 ME = Means of Egress
 GS = General Safety
 MFS = Mandatory Fire Safety
 MME = Mandatory Means of Egress
 MGS = Mandatory General Safety

ROOFS AND ROOF STRUCTURES (Chapter 15)

Performance requirements (1505.0) _____ Low-slope roof coverings (1507.5)
 Fire classification (1506.0) _____ Flashing (1508.0)
 Steep-slope roof coverings (1507.4) _____ Roof structures (1510.0)

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL LOADS (Chapter 16)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603.1) _____ Internal pressure coefficient (Table 1609.7[6]) _____
 Uniformly distributed floor live loads (1603.2, 1606.0) _____ Wind design pressure, P (1609.7) _____
 Floor Area Use _____ Loads Shown _____ Earthquake loads (1603.6, 1610.0) _____
 _____ _____ Peak velocity-related acceleration, A_v (1610.1.3) _____
 _____ _____ Peak acceleration, A_a (1610.1.3) _____
 _____ _____ Seismic hazard exposure group (1610.1.5) _____
 _____ _____ Seismic performance category (1610.1.7) _____
 _____ _____ Soil-profile type (Table 1610.3.1) _____
 Roof snow loads (1603.4, 1608.0) _____ Basic structural system and seismic-resisting system (Table 1610.3.3) _____
 _____ _____ Ground snow load, Ω_g (1608.2) _____
 _____ _____ If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3) _____
 _____ _____ If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1) _____
 _____ _____ If $P_g > 10$ psf, roof thermal factor (Table 1608.3.2) _____
 _____ _____ If $P_g > 10$ psf, snow load importance factor, I (Table 1608.3.3) _____
 _____ _____ Sloped roof snowload, P_s (1608.4) _____
 Wind loads (1609.5) _____ Impact loads (1606.6) _____
 _____ _____ Misc. loads (1606.4, 1606.8, 1606.9, 1607.5, 1612.0) _____
 _____ _____ Basic wind speed (1609.3) _____
 _____ _____ Wind exposure category (1609.4) _____
 _____ _____ Wind importance factor, I (Table 1609.5) _____
 _____ _____ Other loads _____
 _____ _____ Attic load (1606.2.2, 1606.2.3) _____
 _____ _____ Partition loads (1606.2.4) _____
 _____ _____ Concentrated loads (1606.3) _____
 _____ _____ Structural Design Calculations Submitted for all structural members (107.7)

NOT B: NR. — Not required
 NA. — Not applicable

ADMINISTRATION (Chapter 1)

Complete construction documents (107.5, 107.6, 107.7) _____ Signed/sealed construction documents (107.7, 114.1) _____

BUILDING PLANNING (Chapters 3, 4, 5, 6)

USE OR OCCUPANCY CLASSIFICATION (302.0-313.0)

Single Use Group _____ Specific occupancy areas (302.1.1) _____
 Mixed Use Groups _____ Accessory areas (302.1.2) _____

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single use group or nonseparated mixed use groups. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed use groups.

PERMITS MODIFICATIONS TO TABLE 503

% of Allowable tabular area (Table 503) _____ 100%
 % Reduction for height (Table 506.4) _____ 0%
 % Increase for open perimeter (506.2) _____ +100%
 % Increase for automatic sprinklers (506.3) _____ +200%
 Total percentage factor _____ = 450%
 Conversion factor $450/100 = 4.5$ (Total percentage factor/100%)

Open perimeter (506.2)	185	North	240	East	185	South	240	West
Open perimeter (506.2)	850 ft.							
% Open perimeter =	$\frac{850}{850} = 100\%$							
% Tab. area increase =	$2 \times 25 = 50\%$							
	$\frac{50}{25} = 200\%$							

CASE 1 — SINGLE USE OR NONSEPARATED MIXED USE GROUPS (313.1.1)

Using Table 503, identify the allowable height and area of the single use group or the most restrictive of the nonseparated mixed use groups. Construction types that provide an allowable tabular area equal to or greater than the adjusted floor area and allowable heights (as modified by Section 504.0) equal to or greater than the actual building height are permitted.

Actual floor area _____ ft.² Actual building height _____ feet _____ stories
 Adjusted floor area* _____ ft.² Allowable building height _____ feet _____ stories
 *Adjusted floor area = actual floor area/conversion factor
 Permitted types of construction _____ Type of construction assumed for review (602.3) _____

OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

OCCUPANT LOAD (1008.0 and Table 1008.1.2)		CAPACITY OF EGRESS COMPONENTS (1009.0 and Table 1009.2)	
Location	Floor Area + Sq.ft./person = Occ. load	Gross width (inch/occupant)	Total
SHOWROOM	$7256 \div 100$	Stairways _____	73
TOYOTA SALES	$3502 \div 100$	Doors/ramps/corridors _____	36
LEXUS SALES	$4573 \div 100$	CAPACITY	46
2ND FLOOR OFF	$7012 \div 100$	Location	71
SERVICE	$18532 \div 300$	Stairways	62
PARTS STORE	$5499 \div 300$	Doors/ramps/corridors	19
			<u>307</u>

ATRIUMS

- Automatic sprinkler system (404.2)
 - Occupancy (404.3)
 - Smoke control (404.4)
 - Enclosure (404.5)
 - Fire alarm system (404.6)
 - Travel distance (404.7)
- OTHER SPECIAL USE AND OCCUPANCY**
- Underground structures (405.0)
 - Open parking structures (406.0)
 - Private garages (407.0)

- Public garages (408.0)
- Use Group I-2 (409.0)
- Use Group I-3 (410.0)
- Stages and platforms (412.0)
- Special amusement buildings (413.0)
- HFM facilities (416.0)
- Hazardous materials (307.8, 417.0)
- Use Groups H-1, H-2, H-3 and H-4 (418.0)
- Swimming pools (421.0)
- Storage racks (422.0)

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRERESISTANT MATERIALS AND CONSTRUCTION (Chapter 7 and Table 602)

Note: Entry in indicates required rating in hours. NC indicates noncombustible construction required.

COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)

Exterior walls 0

Interior elements 2c

Roof 0

FIRE PARTITIONS

Exit access corridors (711.0, 1011.4) NA

Tenant separations (711.0) NA

Dwelling unit separations (711.0) 0

Guestroom separations (711.0) 0

OTHER FIRERESISTANT CONSTRUCTION

Fire and party walls (707.0 and Table 707.1) 2 HR

Smoke barriers (712.0) 0

Nonloadbearing partitions (Table 602) 0

Interior loadbearing walls, columns, girders, trusses (716.0) 0

Supporting construction (716.0) 0

Floor construction (713.0, 1006.3.1) 0

Roof construction (713.0, 715.0) 0

Penetrations (714.0) 0

Opening protectives (717.0, 719.0, 720.0) REQ

Fire dampers (718.0) NOT SHOWN

Fireblocking/draftstopping (721.0) 0

Thermal and sound-insulating materials (723.0) 0

CONSTRUCTION DOCUMENTS (703.0)

Fire tests (704.0) 0

EXTERIOR WALLS (507.2, 705.0, 716.6)

North 0 East 0 South 0 West 0

Fire separation distance MORE THAN 30'

LOADBEARING

Loadbearing 9-9-9-0

Nonloadbearing 0-0-0-0

Exterior opening protectives (705.3, 706.0) NR

Continuity of exterior walls (705.6) NR

OTHER FIRERESISTANT CONSTRUCTION

Fire and party walls (707.0 and Table 707.1) 2 HR

Smoke barriers (712.0) 0

Nonloadbearing partitions (Table 602) 0

Interior loadbearing walls, columns, girders, trusses (716.0) 0

Supporting construction (716.0) 0

Floor construction (713.0, 1006.3.1) 0

Roof construction (713.0, 715.0) 0

Penetrations (714.0) 0

Opening protectives (717.0, 719.0, 720.0) REQ

Fire dampers (718.0) NOT SHOWN

Fireblocking/draftstopping (721.0) 0

Thermal and sound-insulating materials (723.0) 0

FIRE SEPARATION ASSEMBLIES

Exit enclosures (709.0, 710.0, 1014.11) 1

Other shafts (709.0, 710.0) 1

Mixed use and fire area separations (313.1.2) ?

Other separation assemblies (302.1.1, Table 602) 0

CONSTRUCTION DOCUMENTS (703.0)

Fire tests (704.0) 0

EXTERIOR WALLS (507.2, 705.0, 716.6)

North 0 East 0 South 0 West 0

Fire separation distance MORE THAN 30'

Loadbearing 9-9-9-0

Nonloadbearing 0-0-0-0

Exterior opening protectives (705.3, 706.0) NR

Continuity of exterior walls (705.6) NR

FIRE SEPARATION ASSEMBLIES

Exit enclosures (709.0, 710.0, 1014.11) 1

Other shafts (709.0, 710.0) 1

Mixed use and fire area separations (313.1.2) ?

Other separation assemblies (302.1.1, Table 602) 0