

UL RATING DETAILS

BUILDING CODE SUMMARY / APPENDIX B

ENERGY REQUIREMENTS

Name of Project: SOUTHEASTERN FREIGHTLINES - CHARLOTTE  
 Address: STEELE CREEK RD., CHARLOTTE, NC 28273  
 Proposed Use: OFFICE, TERMINAL & SERVICE BUILDINGS  
 Owner or Authorized Agent: W.T. Brogdon  
 Contact Person: Donald B. Peardon Jr. Phone #: 704.342.1058  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City CHARLOTTE  County

LEAD DESIGN PROFESSIONAL: Robert Johnson Architects

DESIGNER	NAME	LICENSE No.	TELEPHONE No.
Architectural	Robert Johnson Architects Robert L. Johnson, AIA		704.342.1058
Electrical	SABER ENGINEERING Richard M. Morrison, PE		704.373.0068
Fire Alarm	SABER ENGINEERING Richard M. Morrison, PE		704.373.0068
Plumbing	SABER ENGINEERING James A. Trumble, PE		704.373.0068
Mechanical	SABER ENGINEERING James A. Trumble, PE		704.373.0068
Sprinkler- Standpipe	SABER ENGINEERING James A. Trumble, PE		704.373.0068
Structural	JK Grenga and Associates Kel Grenga, P.E.		704.576.3525
Structural Retaining Walls >5' High	N/A		
Landscape	N/A		

YEAR EDITION OF CODE: 2008 NORTH CAROLINA CODE  
 New Construction  Renovation (Existing Bldg)  Upfit  Alteration

BUILDING DATA  
 Construction Type:  HA  HB  I-A  I-B  II-A  II-B  
 IV  V-A  V-B  
 Mixed Construction:  No  Yes Types \_\_\_\_\_  
 Sprinklers:  No  Yes Class:  NFPA 13  NFPA 13R  NFPA 13D  
 Standpipes:  No  Yes Class:  I  II  III  Wet  Dry  
 Fire District:  No  Yes  
 Building Height: ± 25 Feet 1 Number of Stories  Unlimited per \_\_\_\_\_  
 Mezzanine:  No  Yes  
 High Rise:  No  Yes Central Reference Sheet # (if provided) \_\_\_\_\_  
 Gross Building Area:  
 Floor Existing (SQ FT) New (SQ FT) Sub-Total  
 3rd Floor \_\_\_\_\_  
 2nd Floor \_\_\_\_\_  
 Mezzanine \_\_\_\_\_  
 1st Floor \_\_\_\_\_  
 Basement \_\_\_\_\_  
 TOTAL: \_\_\_\_\_

ALLOWABLE AREA 17,500 (INCREASE UNLIMITED PER 507.2)  
 Primary Occupancy:  Assembly  A-1  A-2  A-3  A-4  A-5  
 Business  Educational  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-5 Use Condition  I-1  I-2  I-3  I-4  
 Mercantile  Residential  R-1  R-2  R-3  R-4  
 Storage  S-1  S-2  High-stalled  
 Utility and Miscellaneous  Parking Garage  Open  Enclosed  Repair  
 Secondary Occupancy: BUSINESS (B)  
 Special Occupancy:  508.2  508.3  508.4  508.5  508.6  508.7  508.8  
 Mixed Occupancy:  No  Yes Separation: 0 Hr. Exception: \_\_\_\_\_  
 Non-Separated Mixed Occupancy (302.3.3)  
 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. The most restrictive type of construction, so determined, shall apply to the entire building.  
 Separated Mixed Occupancy (302.3.3) - See below for area calculations  
 1 or 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) BUILDING AREA (ACTUAL)	(B) TRAILER AREA	(C) AREA FOR OVERSPACE INCREASE	(D) AREA FOR OVERSPACE INCREASE	(E) AREA FOR OVERSPACE INCREASE	(F) ALLOWABLE BUILDING AREA (UNLIMITED)	(G) MAXIMUM BUILDING AREA
1	STORAGE	XXXX	XXXX				UNLIMITED	UNLIMITED

1 Open space area increases from Section 507.2 are computed from:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (P)  
 b. Total Building Perimeter = \_\_\_\_\_ (P)  
 c. Ratio (P/P) = \_\_\_\_\_ (P/P)  
 d. W = Minimum width of public way = \_\_\_\_\_ (W)  
 e. Percent of footage increase = 100 [(P/P) - 0.25] x W/20 = \_\_\_\_\_ (H)  
 2 The sprinkler increase per Section 508.3 is as follows:  
 a. Multi-story building = 200 percent  
 b. Single story building = 100 percent  
 3 Unlimited area applicable under conditions of Scheduling Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5), Group A motion picture (507.8); Malls (402.6); and 1-2 aircraft paint 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 408.3.5. The maximum area of air traffic control towers must comply with 412.1.1.

ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE (TABLE 603)		INCREASE FOR SPREMLERS		SHOWN ON PLANS		CODE REFERENCE
	TYPE	HEIGHT	TYPE	HEIGHT	TYPE	HEIGHT	
Building Height in Feet	Foot	N/A	Foot	N/A	20' 0"	20' 0"	SECTION 603
Building Height in Stories	Stories	1	Stories	1*	Stories	1	SECTION 603

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Check # if Provided: \_\_\_\_\_

BUILDING ELEMENT	FIRE SEVERITY RATING (FSR)	RISK	PROVIDED (SEE SPECIFICATION)	DETAIL # AND SHEET #	SECTION # FOR BUILT ASSEMBLY	SECTION # FOR FINETRACK	SECTION # FOR FINETRACK JOINTS
Structure frame, including concrete, masonry, steel	0	-	-	-	-	-	-
Roof	0	-	-	-	-	-	-
Walls	0	-	-	-	-	-	-
Floors	0	-	-	-	-	-	-
Stair	0	-	-	-	-	-	-
Elevator	0	-	-	-	-	-	-
Nonbearing walls and partitions	0	-	-	-	-	-	-
Roof	0	-	-	-	-	-	-
East	0	-	-	-	-	-	-
West	0	-	-	-	-	-	-
South	0	-	-	-	-	-	-
North	0	-	-	-	-	-	-
Fire protection including supporting structure	-	-	-	-	-	-	-
Not constructed	-	-	-	-	-	-	-
Structure supporting beams and joists	-	-	-	-	-	-	-
South - East	N/A	-	-	-	-	-	-
South - West	N/A	-	-	-	-	-	-
Center Separation	N/A	-	-	-	-	-	-
Common Separation	N/A	-	-	-	-	-	-
Purified Air Separation	N/A	-	-	-	-	-	-
Shower Entry Separation	N/A	-	-	-	-	-	-
Truck Separation	N/A	-	-	-	-	-	-

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

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS	REQUIRED EXITS ON PLANS	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE SHOWN ON PLANS	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS (SECTION 1004.1.2)	ACTUAL DISTANCE SHOWN ON PLANS
STORAGE (B-1)	2	2	92	92	92	DOORS	92

NOTE: SPRINKLER SYSTEM IS USED  
 1 Corridor door area (Section 1016.3)  
 2 Single width (Table 1014.1)  
 3 Common Path of Travel (Section 1014.3)

EXIT WIDTH

USE GROUP OR SPACE DESIGNATION	AREA SQ. FT.	AREA PER OCCUPANT (TABLE 1004.1)	EGRESS WIDTH PER OCCUPANT (TABLE 1004.1)	EXIT WIDTH (B)			
				REQUIRED WIDTH (SECTION 1004.1.2)	STAIR LEVEL	LEVEL	STAIR LEVEL
STORAGE (B-1)	60	60 OCCUPANTS	92	92	92	92	92

1 See Table 1004.1.2 to determine whether net or gross area is applicable.  
 2 See definition "Area, Gross" and "Area, Net" (Section 1002)  
 3 The sprinkler increase per Section 508.3 is as follows:  
 c. Multi-story building = 200 percent  
 d. Single story building = 100 percent  
 4 Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)  
 5 Minimum width of exit passageway (Section 1005.3.3)  
 6 The base of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1003.2.3)  
 7 Assembly occupancies (Section 1008)

STRUCTURAL DESIGN SEE STRUCTURAL DRAWINGS

DESIGN LOADS: SEE STRUCTURAL DRAWINGS

PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY	WATERCLOSET <sup>1</sup>		SINKS		SHOWERS	BATHS	SPECIAL FIXTURES
	MEN	WOMEN	MEN	WOMEN			
RESIDENTIAL							

ACCESSIBLE PARKING (EXISTING)

EXISTING USE AND SPACES TO REMAIN

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH # ACCESSIBLE	VAN SPACES WITH # ACCESSIBLE	
TOTAL					

SPECIAL APPROVALS

Special approval: Local Jurisdiction, Department of Insurance, BRCC, ICC, etc. (attach below)



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CONSULTANT

STAMPS



SOUTHEASTERN FREIGHTLINES CHARLOTTE, NC.

PROJECT NUMBER	ISSUE DATE
0556	10. 06. 06
	PRELIMINARY PRICING
	11. 21. 06
	OWNER REVIEW
	01. 10. 07
	OWNER COMMENT
	02. 05. 07
	RELEASED FOR BID
	03. 01. 07

DRAWING DATA  
 DRAWN BY: DDP  
 CHECKED BY: \_\_\_\_\_  
 FILE NUMBER: 0556

SHEET TITLE  
 BUILDING CODE SUMMARY & LIFE SAFETY INFO.

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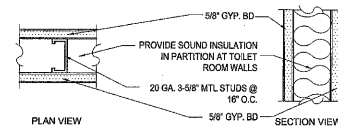
SHEET NUMBER

G-1.1

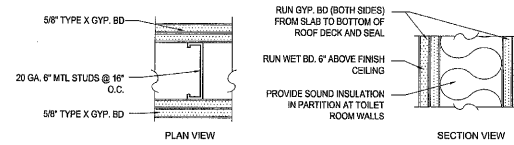


## PARTITION TYPES

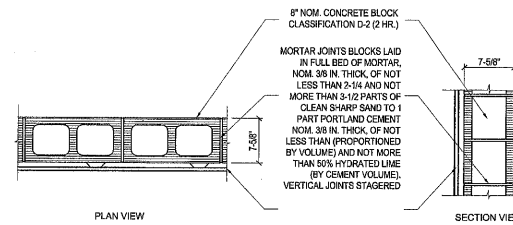
GENERAL NOTE: ALL STUD WALLS TO HAVE COLD FORM STIFFENER AT 4'-0" O.C.



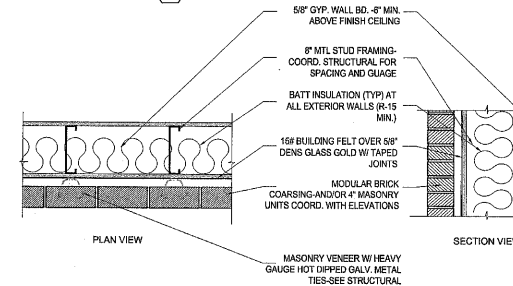
- 1 AS SHOWN - NO SOUND INSULATION
- 1A WATER RESISTANT GYP. BD. - 1 SIDE (WET ROOM SIDE)
- 1B AS SHOWN + SOUND ATTENUATION INSULATION
- 1C AS SHOWN + T.O.W. @ 9'-0" A.F.F.
- 1D AS SHOWN + T.O.W. @ 42' A.F.F.



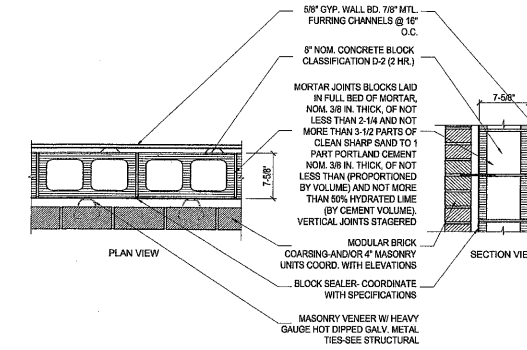
- 7 2 HR. UL # U474 @ CHASE(S)



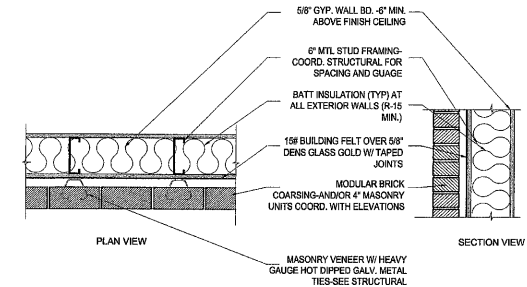
- 8 2 HR. UL # U905
- 8A 2 HR. UL # U905 WATER RESISTANT GYP. BD.-1 SIDE (WET RM. SIDE)
- 8B NO RATING REQ'D
- 8C NO RATING REQ'D WATER RESISTANT GYP. BD.-1 SIDE (WET RM. SIDE)



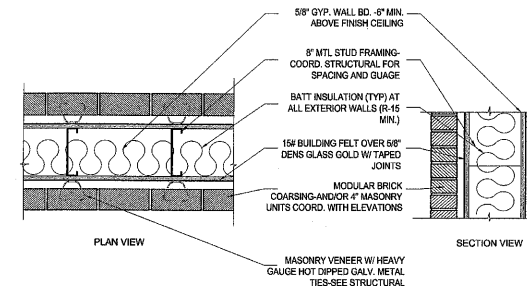
- 9 AS SHOWN
- 9A UL 80XX 1HR. RATING



- 10 AS SHOWN - UL DESIGNATION NOT REQUIRED
- 10A 2 HR. UL # U905 WATER RESISTANT GYP. BD.-1 SIDE (WET RM. SIDE)



- 11 AS SHOWN
- 11A UL# XXXX 1 HR. RATED



- 12 AS SHOWN
- 12A UL#XXX 1 HR. RATING



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STAMPS



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**FREIGHTLINES**  
CHARLOTTE, NC.

PROJECT NUMBER	0556
ISSUE DATE	
PRELIMINARY PRICING	10.06.06
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OWNER REVIEW	01.10.07
OWNER COMMENTS	02.05.07
RELEASED FOR BID	03.01.07

**DRAWING DATA**

DRAWN BY: DBP  
CHECKED BY:  
FILE NUMBER: 0556

**SHEET TITLE**

**WALL**  
**TYPES**

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**SHEET NUMBER**

**G1.3**