



**State of Connecticut
Department of Administrative Services
Division of Construction Services
Office of Design and Construction - Code Unit
165 Capitol Avenue, Room 483
Hartford, CT 06106**

Project Number:		
Project Name:	SIDE BY SIDE CHARTER SCHOOL	
Project Location:	10 CHESTNUT ST., NORWALK CT	
Date:	11/3/10	
Licensed Code Inspector:		
	(Name)	(Signature)

The information on this form is intended to expedite the plan review process and is for archival purposes. It assembles all code related information into one table. The information shall be placed on the drawings and become a permanent record of the code information applicable to this building.

PART 1 - CT STATE BUILDING CODE

- | | | | | | | |
|---|-------------------------------------|-----|-------------------------------------|----|-------------------------------------|-----|
| 1.0 EXISTING BUILDING: | <input type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> | N/A |
| 1.1 Continuation of Existing Use | <input type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| 1.2 Change of Use | <input type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| 1.3 Complying with International Existing Building Code | <input type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| 2.0 NEW BUILDINGS OR ADDITIONS: | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| 2.1 Exceeds Threshold Building Limits | <input type="checkbox"/> | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| 3.0 OCCUPANCY CLASSIFICATION | <u>E</u> | | | | | |
| 3.1 Mixed Occupancies | <u>B, S-1</u> | | | | | |
| 4.0 HEIGHT AND AREA COMPUTATION + CONSTRUCTION TYPE: | | | | | | |

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Use **Case 1** to determine the allowable height and area and permitted construction types for the building containing a single occupancy or non-separated mixed occupancies. Use **Case 2** to determine the allowable height and area and permitted types of construction for the building containing separated mixed occupancies.

AREA MODIFICATIONS TO TABLE 503							
% of allowable tabular area, A_t (Table 503)	100%		Frontage (506.2)	<u>40.5'</u>	<u>81.75'</u>	<u>40.5'</u>	<u>60.0'</u>
% Increase for frontage, I_f (506.2)	+ <u>43</u> %		North	East	South	West	
% Increase for automatic sprinklers, I_s (506.3)	+ <u>200</u> %		Total Frontage (F)	<u>238.15</u> ft.		Perimeter (P)	<u>260.5</u> ft.
Total percentage factor	= <u>343</u> %		Width of open space (W)	= <u>20</u>			
Conversion factor	<u>3.43</u>		% Frontage increase (I_f) (506.2)	= <u>.43</u>			
	Total percentage factor ÷ 100%			$I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$			<u>30</u>



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CASE 1 – SINGLE OCCUPANCY OR NON-SEPARATED USES (302.3.1)

Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the non-separated mixed occupancies. Construction types providing an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

DETERMINE CONSTRUCTION TYPE			ALLOWABLE AREA (506.4)		
Actual building area	3,947	ft ²	Allowable area per floor (A _f)		
Adjusted building area	1,150	ft ²	3.43	x	9,500
	actual building area + conversion factor		= 32,585 ft ²		
			conversion factor tabular area (Table 503)		
Actual building height	35	feet	2	Total floor area (all stories)	
					11,567
			ft ²		
Allowable building height	60	feet	2	Allowable floor area (all stories)	
					32,585
					x
			3	= 97,755	
					ft ²
Permitted construction types	VB		Allowable area per floor (A _f)		
Type of construction assumed for review (602.1.1)	VB		Number of stories (maximum 3)		

CASE 2 – MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types providing for each story of the building, tabular areas (as modified by Section 506), which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are permitted.

Story	Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		ft ²	ft ²	ft	stories
		$\sum \frac{\text{Adjusted floor area}^*}{\text{Allowable tabular area, } A_t \text{ (Table 503)}} = \dots + \dots + \dots = \dots \leq 1.00$			

*Adjusted floor area = actual floor area + conversion factor



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ALLOWABLE AREA (506.4)	
Allowable area per floor (A_a): $\frac{3.43}{\text{conversion factor}} \times \frac{9,500}{\text{tabular area (Table 503)}} = 32,525 \text{ ft}^2$	Permitted types of construction: <u>VB</u>
Total floor area (all stories): <u>11,567</u> ft ²	Type of construction assumed for review (602.1.1): <u>VB</u>
$\frac{32,525}{\text{Allowable area per floor (A}_a\text{)}} \times \frac{3}{\text{Number of stories (maximum 3)}} = 97,155 \text{ ft}^2$	

MEZZANINES (505) <u>N.A.</u>	
<input type="checkbox"/> Area limitation (505.2)	<input type="checkbox"/> Openness (505.4)
<input type="checkbox"/> Egress (505.3)	<input type="checkbox"/> Equipment platforms (505.5)

UNLIMITED AREA BUILDINGS (507) <u>N.A.</u>	
<input type="checkbox"/> Unsprinklered, one story (507.1)	<input type="checkbox"/> High-hazard use groups (507.6)
<input type="checkbox"/> Sprinklered, one story (507.2)	<input type="checkbox"/> Aircraft paint hangar (507.7)
<input type="checkbox"/> Two story (507.3)	<input type="checkbox"/> Group E buildings (507.8)
<input type="checkbox"/> Reduced open space (507.4)	<input type="checkbox"/> Motion picture theaters (507.9)
<input type="checkbox"/> Group A-3 buildings (507.5)	

SPECIAL PROVISIONS (508) <u>N.A.</u>	
<input type="checkbox"/> Special condition applicable (508.1)	



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CONSTRUCTION INFORMATION

6.0 MEANS OF EGRESS:

6.1 Total Occupant Load (Entire Building)	<u>200</u>
6.2 Total Occupant Load (Largest Floor)	<u>95</u>
6.3 Total Capacity Of Exits	<u>64" (33" REQ'D.)</u>
6.4 Total Number of Exits	<u>2</u>

7.0 FIRE RESISTANT RATING OF STRUCTURE ELEMENTS (TABLE 602) REFER TO CONSTRUCTION DOCUMENTS FOR THE FOLLOWING:

7.1 Exterior Walls:		
7.1.1 Load Bearing	<u>0</u>	HR(S)* 1HR @ NORTHEAST WALL
7.1.2 Non-load Bearing	<u>0</u>	HR(S)
7.2 Fire Walls & Party Walls	<u>NA</u>	HR(S)
7.3 Fire Separation Assemblies:		
7.3.1 Fire enclosure of exits	<u>1</u>	HR(S)
7.3.2 Shafts	<u>1</u>	HR(S)
7.3.3 Mixed Use Separation	<u>1</u>	HR(S)
7.3.4 Other Separation Assemblies:	<u>NA</u>	HR(S)
7.4 Fire Partitions	<u>NA</u>	HR(S)
7.5 Dwelling Unit Separations	<u>NA</u>	HR(S)
7.6 Smoke Barriers	<u>NA</u>	HR(S)
7.7 Other Non bearing Partitions	<u>0</u>	HR(S)
7.8 Interior Bearing Walls, Bearing Partitions, Columns, Girders, Trusses and Framing:		
7.8.1 Supporting more than one floor	<u>0</u>	HS(S)
7.8.2 Supporting one floor only or a roof:	<u>0</u>	HR(S)* 1ST FLOOR 1HR
7.8.3 Structural Members Supporting Wall	<u>0</u>	HR(S)* " "
7.9 Floor Construction Including Beams	<u>0</u>	HR(S)
7.10 Roof Construction	<u>0</u>	HR(S)
7.10.1 * 15 ft. or less:	<u>0</u>	HR(S)
7.10.2 * 15 ft. or more:	<u>0</u>	HR(S)
7.10.3 * 20 ft. or more:	<u>0</u>	HR(S)

8.0 FIRE PROTECTION SYSTEM:

8.1 Fire Suppression System	<u>YES</u>
8.2 Alarms	<u>YES</u>
8.3 Automatic Fire Detection System	<u>YES</u>
8.4 Smoke Control System	<u>NO</u>
8.5 Supervision	<u>YES</u>



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PART 2 - CONNECTICUT STATE FIRE SAFETY CODE

1.0	CLASSIFICATION OF OCCUPANCY:	E , B , S-1
2.0	CONSTRUCTION CLASSIFICATION:	VB (COMBUSTIBLE, UNPROTECTED)
3.0	MINIMUM CONSTRUCTION TYPE REQUIRED:	VB
4.0	ACTUAL CONSTRUCTION TYPE PROVIDED:	VB
5.0	NOTIFICATION/ALARMS:	YES
6.0	DETECTION:	YES
7.0	EXTINGUISHMENT REQUIREMENTS:	YES (FULLY SPRINKLERED)

END

BUILDING INFORMATION
FOR CODE ANALYSES