

CASE 2 — MIXED USE SEPARATED USE GROUPS (313.1.2)

Using Table 503, identify the allowable height and area of each of the separated use groups within the building. Construction types that provide, for each story of the building, tabular areas which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504.0) equal to or greater than the actual height of the use group are permitted.

Story	Use Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height (Table 503)
		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

*Adjusted floor area = actual floor area/conversion factor

$$\sum \frac{\text{Adjusted floor area}}{\text{Allowable area (Table 503)}} = \text{---} + \text{---} + \text{---} + \text{---} = \text{---} \leq 1.00$$

Permitted types of construction _____ Type of construction assumed for review (602.3) _____

UNLIMITED AREA ONE-STORY BUILDINGS

_____	Use group classification (507.1)	_____	School buildings (507.1.1)
_____	Building height (story, feet) (507.1)	_____	High-hazard use groups (507.1.2)
_____	Type of construction (507.1)	_____	Exterior walls (507.2)
_____	Automatic sprinkler system (507.1, 904.12)		

MEZZANINES

_____	Area limitation (505.2)	_____	Openness (505.4)
_____	Egress (505.3)		

SPECIAL USE AND OCCUPANCY (Chapter 4)

COVERED MALL BUILDINGS

_____	Tenant separations (402.4)
_____	Egress (402.5)
_____	Mall width (402.6)
_____	Structural elements (402.7)
_____	Roof coverings (402.8)
_____	A-1, A-2 occupancy (402.9)
_____	Automatic sprinkler system (402.10)
_____	Standpipes (402.11)
_____	Fire department access (402.12)
_____	Kiosk requirements (402.14)

_____	Parking structures (402.15)
_____	Smoke control (see Atriums)

HIGH-RISE BUILDINGS

_____	Automatic sprinkler system (403.2)
_____	Alternative sprinkler modifications (403.3)
_____	Automatic fire detection (403.4)
_____	Voice/alarm signaling systems (403.5)
_____	Fire department communication (403.6)
_____	Fire command station (403.7)
_____	Elevators (403.8)
_____	Standby systems (403.9)
_____	Stairway doors (403.10)

MEANS OF EGRESS (continued)

_____	General limitations (1005.0)	_____	Ramps (7076.0)
_____	Air movement in egress elements (1005.7)	_____	Means of egress doorways (1017.0)
_____	Types and location of egress (7006.0)	_____	Number of doorways (1017.2)
_____	Exit access travel distance (1006.5 and Table 1006.5)	_____	Size of doors (1017.3)
_____	/accessible means of egress (1007.0)	_____	Door hardware (1017.4)
_____	Emergency escape (1010.4)	_____	Revolving doors (7078.0)
_____	Exit access passageways and corridors (7077.0)	_____	Horizontal exits (7079.0)
_____	Aisles and accessways (7072.0)	_____	Discharge from exit stairways (1020.0)
_____	Grandstands (1013.0)	_____	Guards (1021.0)
_____	Interior stairways (1014.1 - 1014.17)	_____	Handrails (1022.0)
_____	Exterior stairways (1014.1 - 1014.10, 1014.12)	_____	Exit signs and lights (1023.0)
_____	Smokeproof enclosures (1015.0)	_____	Means of egress lighting (1024.0)
		_____	Access to roof (1027.0)

ACCESSIBILITY* (Chapter 11)

_____	Required (1103.0)	_____	Special use groups (1107.0)
_____	Accessible route (1104.0)	_____	Features and facilities (1108.0)
_____	Parking facilities (1105.0)	_____	Warnings and signage (1109.0)
_____	Accessible entrances (1106.0)		

*See also Accessibility Plan Review Record

INTERIOR ENVIRONMENT (Chapter 12)

_____	Room dimensions (1204.0)	_____	Air-borne noise (STC) (1214.2)
_____	Roof spaces (1210.1, 1211.2)	_____	Structure-borne sound (IIC) (1214.3)
_____	Crawl spaces (1210.2, 1211.1)	_____	Ratproofing (1215.0)

BUILDING ENVELOPE (Chapters 13*, 14, 15)









EXTERIOR WALL COVERINGS (Chapter 14)

_____	Construction documents (1403.0)	_____	Wall sidings and veneers (1405.0, 1406.0)
_____	Performance requirements (1404.0)	_____	Combustible material restrictions (1407.0)

*See Energy Conservation Plan Review Record

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STRUCTURAL DESIGN CALCULATIONS (continued)

	Signed/sealed (107.7, 114.1)		Drift snow loads considered (1608.6)
	Deflection limits considered (1604.5)		Internal pressure effects considered (1609.7, 1609.8)
	Sliding snow loads considered (1608.4.1)		Components and cladding effects considered (1609.8)
	Unbalanced snow loads considered (1608.5)		Load combinations considered (1613.1)

TESTS AND INSPECTIONS(Chapter 17)





<u>2/19</u>	Material performance technical data or BOCA International Evaluation Services or National Evaluation Services report supplied (1703.0) Report No. _____	<u>✓</u>	Masonry construction (1705.5)
<u>✓</u>	Owner's special inspection program specified (1705.0)	<u>✓</u>	Wood construction (1705.6)
<u>✓</u>	Prefabricated items (1705.2)	<u>✓</u>	Prepared fill and foundations (1705.7, 1705.8, 1705.9)
<u>✓</u>	Steel construction (1705.3)	<u>✓</u>	Fireresistive materials (1705.12)
<u>✓</u>	Concrete construction (1705.4)	<u>✓</u>	Wall panels and veneers (1705.10, 1705.13)

FOUNDATIONS AND RETAINING WALLS (Chapter 18)

	Soil type (1611.0, 1802.1, 1804.1)		Foundations (1814.0- 1824.0)
	Bearing value (1611.0, 1802.1, 1804.1)		Foundation walls (1611.0, 1812.0)
	Soil report (1802.1, 1804.1)		Waterproofing/dampproofing (1813.0)
	Prepared fill (1804.1.1)		Retaining walls (1611.0, 1825.0)
	Footings (1806.0- 1811.0)		

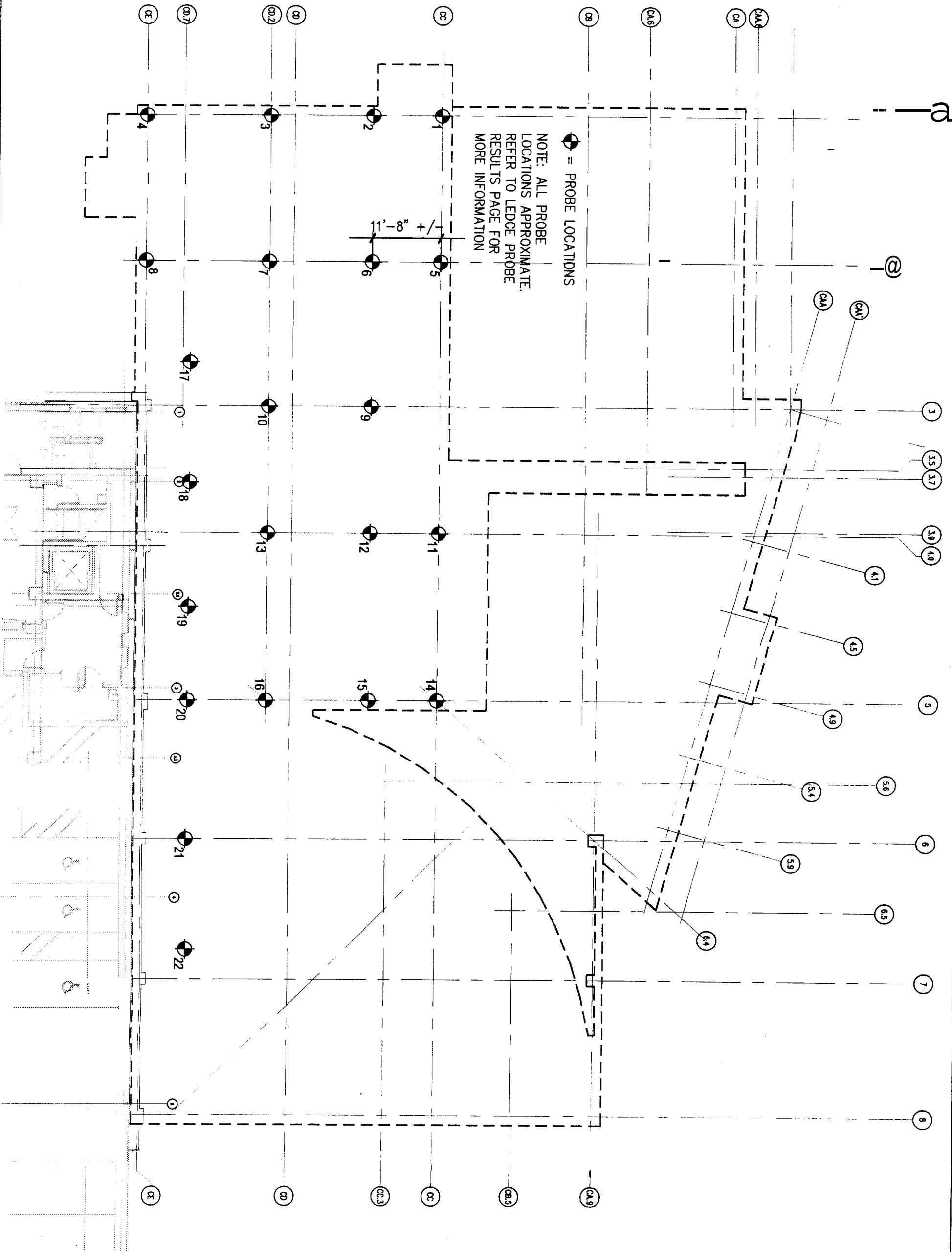
STRUCTURAL MATERIALS (Chapters 19, 21, 22, 23)

CONCRETE (Chapter 19)

	Plain, reinforced and prestressed concrete design/construction standard specified (1901.1, 1903.1.1)		Minimum concrete strength (Table 1907.1.2[1])
	Minimum slab requirements (1905.1)		Cold-weather and hot-weather curing specified (1908.9, 1908.10)

MASONRY (Chapter 21)

Engineered masonry design/construction standard specified (2101.1.1)	Cold-weather and hot-weather construction specified (2111.3, 2111.4)
Empirical masonry design (2101.1.2)	Fireplaces and chimneys (2103.2, 2113.0-2117.0)
Construction materials (2104.0)	Glass block (2118.0)
Mortar type (2104.7)	



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