

BUILDING B: NEW POLICE HEADQUARTERS

- GROUP CLASSIFICATION (Chapter 3): SEPARATED MIXED: BUSINESS, INSTITUTIONAL (I-3)
- CONSTRUCTION TYPE:
Minimum Type of Construction Required: V-A
Actual Type of Construction Provided: I-B
- BUILDING HEIGHT (Chapter 5):
Allowable Building Height: 160 feet / 11 stories
Actual Building Height: 36 feet / 2 stories
Stories above grade: 2 stories
- BUILDING AREA (Chapter 5):
Floor: Basement First Second TOTAL:
Existing construction: 0 0 0 0
New Construction: 18,325 16,668 14,190 49,183
Total area: 18,325 16,668 14,190 49,183
- AREA MODIFICATIONS TO TABLE 503:
Total Perimeter: 213 ft. 137 ft. 157 ft. 140 ft.
Open Perimeter: 64 ft. 0 ft. 157 ft. 0 ft.
Perimeter (P): 647 ft.
Width of Open Space (W): 30 ft.
Open perimeter
If = 100 (F/P - 0.25) W/30
% Frontage Increase (If) = 9 %
% of Allowable Tabular Area, A1 (Table 503): 100 %
% Increase for frontage, If (506.2): 0 %
% Increase for automatic sprinklers, Is (506.3): 200 %
Total Percentage factor: 309 %
Conversion factor: 3.09

- CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1): Not applicable
- CASE 2 - MIXED OCCUPANCY SEPARATED USES (302.3.2):

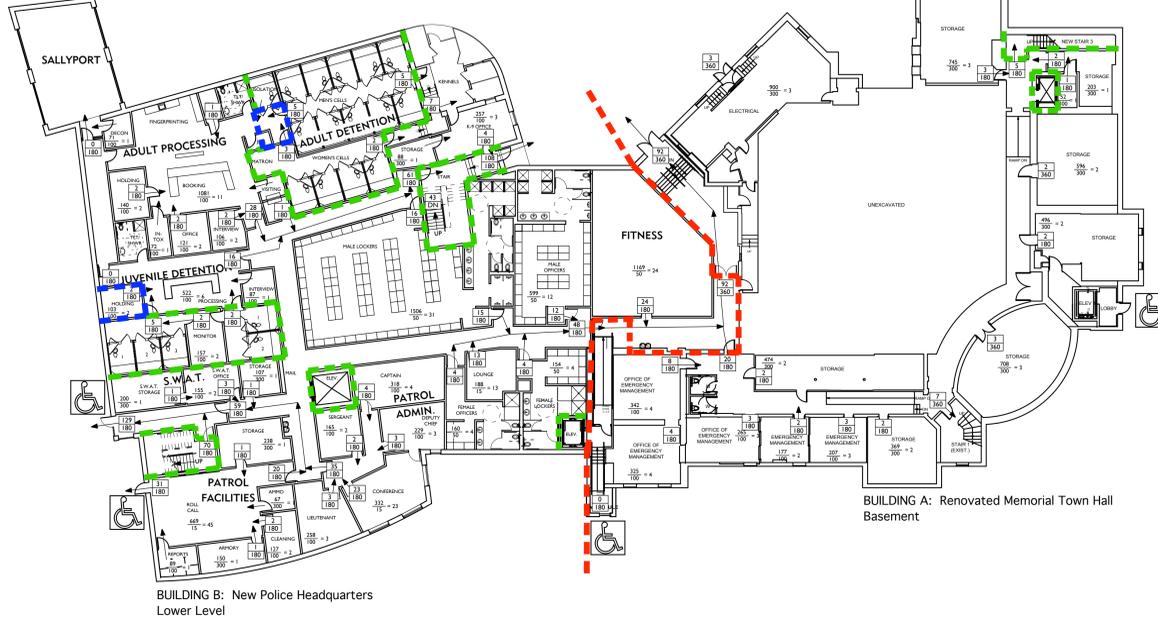
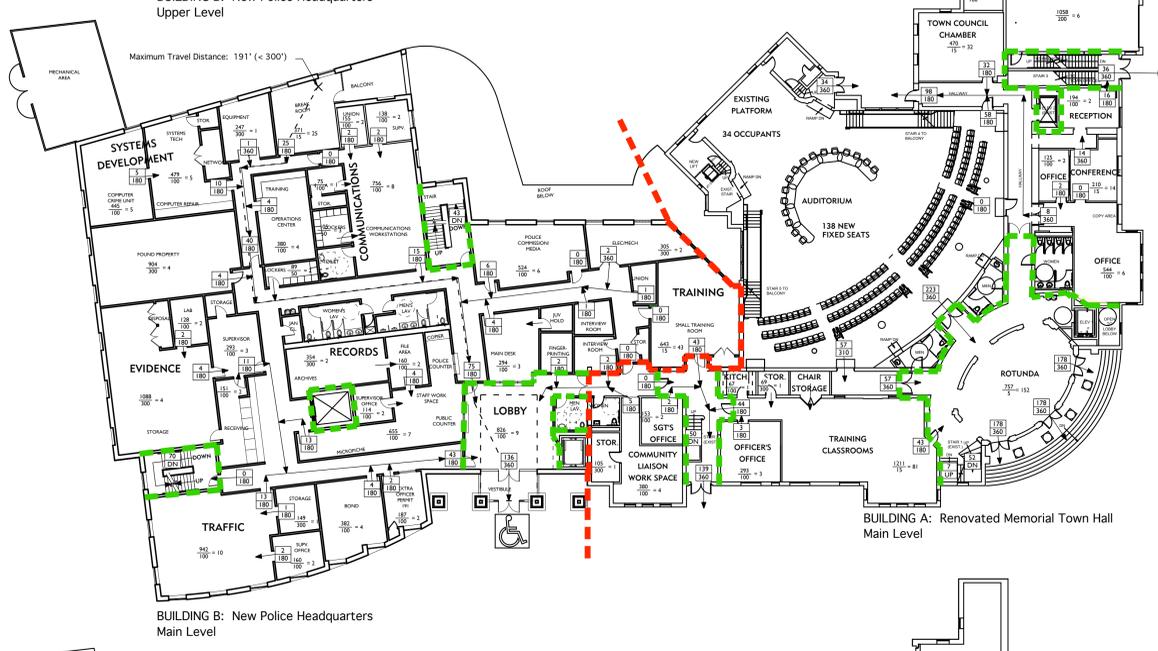
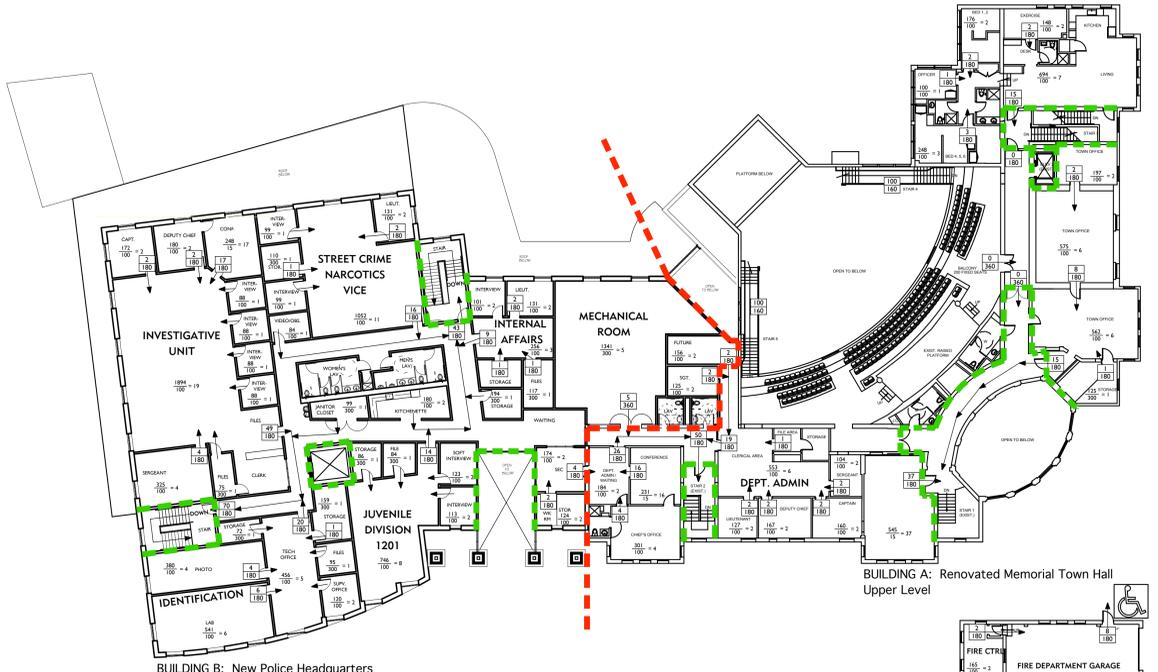
B	1-3	
$\frac{1.6 \text{ LLL}}{\text{unlimited}} + \frac{2.329}{\text{unlimited}} = < 1$		
a) ADJUSTED TABULAR AREA: (actual floor area of each use group/adjustment) must be \leq Table 503 (B = unlimited; 1.3 = unlimited)	B	1-3
	5,214	754 sq.ft.
b) ALLOWABLE AREA per floor (Tabular Area x adjustment)	unlimited	unlimited sq.ft.
c) ACTUAL AREA:		
Lower Level:	15,996	2,329 sq.ft.
Main Level:	16,668	- sq.ft.
Upper Level:	14,190	- sq.ft.

- FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS:
8.1 Exterior Walls
8.1.1 Load Bearing (Tbl. 601): 2 HRS
8.1.2 Non Load Bearing (Tbl. 602): 1 HR
8.2 Fire Walls and Party Walls (Tbl. 705.4): 3 HRS
8.3 Fire Separation Assemblies:
8.3.1 Fire enclosure of exits (1019.1): 1 HR
8.3.2 Shafts (707.4): 2 HRS
8.3.3 Mixed Use Separation (Tbl. 302.3.2): 1 HR
8.3.4 Other Separation Assemblies (Tbl. 706.3.7): 1 HR
8.4 Fire Partitions (708.3): NR
8.5 Dwelling Unit Separations: NA
8.6 Smoke Barriers (709.3): NR
8.7 Other Non Bearing Partitions (710.3): 0 HRS
8.8 Interior Bearing Walls, Bearing Partitions, Columns, Girders, Trusses and Framing (Tbl. 601):
8.8.1 Supporting more than one floor: 2 HRS
8.8.2 Supporting one floor only or a roof: 2 HRS
8.8.3 Structural members supporting walls: 2 HRS
8.9 Floor Construction Including Beams (Tbl. 601): 2 HRS
8.10 Roof Construction (Tbl. 601):
8.10.1 Height to lowest member < 15 ft.: 1 HR
8.10.2 Height to lowest member ≥ 15 ft.: 1 HR
8.10.3 Height to lowest member ≥ 20 ft.: 1 HR

- OCCUPANCY LOAD:
Lower Level: 235
Main Level: 172
Upper Level: 126
TOTAL: 533
- EXIT CAPACITY:
Lower Level: 900
Main Level: 360
Total: 1,260
- MODIFICATIONS: None sought
- ACCESSIBLE BUILDING: Designated
- MINIMUM PLUMBING FIXTURE COUNT (IPC Chapter 4):
"B" Business Total: 513
TOTAL REQUIRED PROVIDED
W.C./Urinals = 12 40
Lavatories = 8 22
Drinking Fountains = 6 6
Service Sink = 2 2

- SPRINKLER PROTECTION: Entire Building
- CODES TO WHICH THIS PROJECT WAS DESIGNED:
State Building Code (IBC 2003, with 2005 Connecticut supplement)
State Fire Code (IFC 2003, with 2005 Connecticut supplement)
State Health Code
OSHA / Title 29
Section 504, Rehabilitation Act
Americans with Disabilities Act, Title II
- THRESHOLD BUILDING CONDITIONS: No

- BUILDING AREAS (ENTIRE FACILITY):
Total existing construction: 0 s.f.
Existing being demolished: 0 s.f.
Existing unrenovated construction: 0 s.f.
Existing renovated construction: 0 s.f.
Total new construction: 49,183 s.f.
Total facility area: 49,183 s.f.



BUILDING A: RENOVATED MEMORIAL TOWN HALL

- GROUP CLASSIFICATION (Chapter 3): MIXED NON-SEPARATED ASSEMBLY (A-3), BUSINESS
- CONSTRUCTION TYPE:
Minimum Type of Construction Required: V-A
Actual Type of Construction Provided: III-B
- BUILDING HEIGHT (Chapter 5):
Allowable Building Height: 55 feet / 2 stories
Actual Building Height: 36 feet / 2 stories
Stories above grade: 2 stories
- BUILDING AREA (Chapter 5):
Floor: Basement First Second TOTAL:
Existing construction: 9,763 15,703 10,937 36,403
New Construction: 0 0 0 0
Total area: 9,763 15,703 10,937 36,403
- AREA MODIFICATIONS TO TABLE 503:
Total Perimeter: 287 ft. 200 ft. 138 ft. 137 ft.
Open Perimeter: 101 ft. 0 ft. 200 ft. 138 ft.
Perimeter (P): 712 ft.
Width of Open Space (W): 30 ft.
Open perimeter
If = 100 (F/P - 0.25) W/30
% Frontage Increase (If) = 39 %
% of Allowable Tabular Area, A1 (Table 503): 100 %
% Increase for frontage, If (506.2): 39 %
% Increase for automatic sprinklers, Is (506.3): 200 %
Total Percentage factor: 339 %
Conversion factor: 3.39

- CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1):

a) ADJUSTED TABULAR AREA: (actual floor area of each use group/adjustment) must be \leq Table 503 (A-3 = 9,500)	4,632	sq.ft.
b) ALLOWABLE AREA per floor (Tabular Area x adjustment)	32,205	sq.ft.
c) ACTUAL AREA:		
First Floor:	15,703	sq.ft.
Second Floor:	10,937	sq.ft.
Basement:	9,763	sq.ft.

- CASE 2 - MIXED OCCUPANCY SEPARATED USES (302.3.2): Not applicable

- FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS:
8.1 Exterior Walls
8.1.1 Load Bearing (Tbl. 601): 2 HRS
8.1.2 Non Load Bearing (Tbl. 602): 1 HR
8.2 Fire Walls and Party Walls (Tbl. 705.4): 3 HRS
8.3 Fire Separation Assemblies:
8.3.1 Fire enclosure of exits (1019.1): 1 HR
8.3.2 Shafts (707.4): 1 HR
8.3.3 Mixed Use Separation (Tbl. 302.3.2): NA
8.3.4 Other Separation Assemblies (Tbl. 706.3.7): 1 HR
8.4 Fire Partitions (708.3): NR
8.5 Dwelling Unit Separations: NA
8.6 Smoke Barriers (709.3): NR
8.7 Other Non Bearing Partitions (710.3): 0 HRS
8.8 Interior Bearing Walls, Bearing Partitions, Columns, Girders, Trusses and Framing (Tbl. 601):
8.8.1 Supporting more than one floor: 0 HRS
8.8.2 Supporting one floor only or a roof: 0 HRS
8.8.3 Structural members supporting walls: 0 HRS
8.9 Floor Construction Including Beams (Tbl. 601): 0 HRS
8.10 Roof Construction (Tbl. 601):
8.10.1 Height to lowest member < 15 ft.: 0 HRS
8.10.2 Height to lowest member ≥ 15 ft.: 0 HRS
8.10.3 Height to lowest member ≥ 20 ft.: 0 HRS

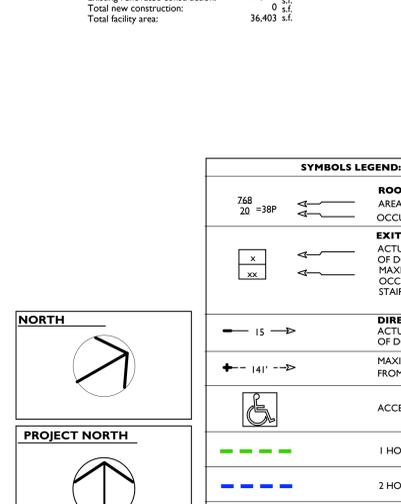
- OCCUPANCY LOAD:
Basement: 35
First Floor: 484
Second Floor: 304
TOTAL: 823
- EXIT CAPACITY:
Basement: 1,260
First Floor: 900
Total: 2,160

- MODIFICATIONS: Will seek modification for approval of existing open stair
- ACCESSIBLE BUILDING: Designated
- MINIMUM PLUMBING FIXTURE COUNT (IPC Chapter 4):
"A" Assembly Total: 524
3 Male water Closets/Urinals
5 Female water Closets
3 Lavatories
1 Drinking Fountain
"B" Business Total: 299
7 Water Closets/Urinals
5 Lavatories
3 Drinking Fountains

TOTAL REQUIRED PROVIDED		
Male W.C./Urinals =	8	9
Female W.C. =	8	9
Lavatories =	8	16
Drinking Fountains =	4	4
Service Sink =	2	2

- SPRINKLER PROTECTION: Entire Building
- CODES TO WHICH THIS PROJECT WAS DESIGNED:
State Building Code (IBC 2003, with 2005 Connecticut supplement)
State Fire Code (IFC 2003, with 2005 Connecticut supplement)
State Health Code
OSHA / Title 29
Section 504, Rehabilitation Act
Americans with Disabilities Act, Title II
- THRESHOLD BUILDING CONDITIONS: No

- BUILDING AREAS (ENTIRE FACILITY):
Total existing construction: 36,403 s.f.
Existing being demolished: 0 s.f.
Existing unrenovated construction: 6,426 s.f.
Existing renovated construction: 29,977 s.f.
Total new construction: 0 s.f.
Total facility area: 36,403 s.f.



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**HAMDEN MEMORIAL TOWN HALL
POLICE HEADQUARTERS**
HAMDEN, CONNECTICUT

REVISIONS:

7/68	←	ROOM OCCUPANCY LOAD
20 = 38P	←	AREA IN SQUARE FEET
	←	OCCUPANCY LOAD FACTOR
X	←	EXIT CAPACITY
xx	←	ACTUAL EGRESS OCCUPANCY
	←	OF DOOR OR STAIR
	←	MAXIMUM ALLOWABLE EGRESS
	←	OCCUPANCY OF DOOR OR
	←	STAIR
→ IS →		DIRECTION OF TRAVEL
→ 141' →		ACTUAL EGRESS OCCUPANCY
		OF DOOR OR STAIR
		MAXIMUM TRAVEL DISTANCE
		FROM FARTHEST POINT
		ACCESSIBLE AREA OR EXIT
		1 HOUR FIRE SEPARATION
		2 HOUR FIRE SEPARATION
		BUILDING SEPARATION

CODE PLANS

DATE: 3/3/08
BGW JOB NO.: 07200
DRAWING NO. **G-002**