

## BUILDING DATA

Calif. Polytechnic State University Building 38, Mathematics.

Original Construction 1958.

Occupancy Type: B Occ., with A-3 Accessory (less than 10%), non-sprinklered

Construction Type: III-B [(E) Condition per current code]

Primary Structural Frame, no rating reqd.

2-hour Exterior bearing walls: (E) 8" thk. Concrete Complies

Interior bearing walls, no rating reqd.

Interior Walls and Partitions may be of any material allowed by the Code (Sec. 603.2); Non-Rated (Table 601) (E) wood Stud and metal stud Interior Non-Bearing Walls Comply

Floor Construction and secondary members- no reqmnt

Roof Construction and secondary members – no reqmnt.

Non Bearing Exterior Walls (Table 602)-

> 30' : No Requirement.

Fire separation distance is greater than 30', NO LIMIT on exterior openings per table 705.8

Occupancy Separations: None

NOTE: There is a 2 hour separation wall with a sliding fire door between the one story (Home EC) and the two story (Math) portions of the building

No. of Stories: 2 – OK per Table 503, 3 stories Allowed

(E) Building Height- 25', 55' allowed

Actual Building Area-

First Floor- 33,212 sq. ft

Second Floor- 13,670 sq. ft.

Total: 46,791 sq. ft.

Allowable Area Calculation

$A_a = [A_t + [A_t \times I_f] + [A_t \times I_s]]$  (Per 506.1)

$L_f = [F/P - 0.25] \times W/30$  (Per 506.2)

P = 1340 ft. (Total Perimeter)

F = 1340

W = 30: greater than 30' separation.

$$I_f = [F/P - 0.25] * W/30$$

$$I_f = [1378/1378 - 0.25] * 1$$

$$I_f = .75$$

$$I_s = 0 \text{ (non sprkld)}$$

$$A_t = 19,000 \text{ sq. ft. (Per Table 503)}$$

$$A_a = \{19,000 + [19,000 \times .75] + [19,000 \times 0]\}$$

$$A_a = 19,000 + 14,250 = 33,250 \text{ sq. ft. per Floor}$$

First Floor - 33,212 sq. ft. (inclds crvd patio) < 33,250 sq. ft. Allowable, **OK**  
Second Floor - 13,670 sq. ft. < 33,250 sq. ft. Allowable, **OK**

Total Allowable Area- 66,500 sq. ft. (506.4.1, 2 stories)

Total (E) Area – 46,791 sq. ft. **OK**

**DSA Info-**

**DSA number 01-109911.**

Path of Travel through First Floor hallways. Restrooms first floor 150A and 149A. Fully Accessible Play Yard.

**Fire Sprinkler Info-**

No Sprinklers.

**SFM FILE #- 18-40-03-0001-016**