BUILDING DATA

Calif. Polytechnic State University Building 024, Food Processing and Campus Market.

Original Construction 1960

Food Processing Building is B Occ. and Type III-B construction
Campus Market is M Occ. and Type V-B construction.
The two areas are separated by an 8” concrete wall, which complies as a 2 hour fire barrier;
**The double doors from Food Processing are not rated. A future project in the immediate vicinity should replace the doors with 1-1/2 hour rated assembly.**

Food Processing-
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)- None

    Fire separation distance is greater than 30’, NO LIMIT on exterior openings per table 705.8
    Fire separation distance at North West corner, 20’ to 25’- 45% openings allowed- OK

No. of Stories: 1 – OK per Table 503, 2 stories Allowed

(E) Building Height- 15’

Actual Building Area-

First Floor: 25,921 sq. ft.

Allowable Area Calculation

\[ Aa = [At+ (At x Lf)] + [At x Is]) \] (Per 506.1)

\[ Lf = [F/P-0.25]*W/30 \] (Per 506.2)

\[ P = 675 \text{ ft.} \text{ (Total Perimeter)} \]

\[ F = 468 \text{ ft.} \]

\[ W = 30- \text{ greater than 30’ separation.} \]
If \( = \frac{F/P - 0.25}{W/30} \)

If \( = \frac{468/675 - 0.25}{30/30} \)

If \( = 0.44 \)

Is = 0 (non sprkld)

At = 19,000 sq. ft. (Per Table 503)

Aa = \{19,000 + [19,000 \times 0.44] + [19,000 \times 0]\}

Aa = 19,000 + 8423 = 27,423 sq. ft. per Floor

First Floor- 25,921 sq. ft.- **OK**

Campus Market-
Occupancy Type: M & F-1 Occ. non-sprinklered

Construction Type V-B [(E) Condition per current code]
Any Materials allowed by code – Wood framed roof structure

No. of Stories: 1 – OK per Table 503, 1 stories Allowed

(E) Building Height- 18’

Actual Building Area-
First Floor: 6,734 sq. ft.

Allowable Area (per Table 503)-
M- 9,000 sq. ft. **OK**
F-1- 8,500 sq. ft. **OK**

**DSA Info**-
No DSA number.

**Fire Sprinkler Info**-
No Sprinklers

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