APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: ___________________________________________________________
Address: _____________________________________________________________________________________
Proposed Use: ________________________________________________________________________________
Owner or Authorized Agent: ______________________ Phone # _____________________________
Owned By: ☐ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City______________ ☐ County__________________________

<table>
<thead>
<tr>
<th>LEAD DESIGN PROFESSIONAL:</th>
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</thead>
<tbody>
<tr>
<td>DESIGNER</td>
<td>FIRM</td>
<td>NAME</td>
<td>LICENSE #</td>
<td>TELEPHONE #</td>
</tr>
<tr>
<td>Architectural</td>
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<tr>
<td>Electrical</td>
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<td>Mechanical</td>
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<tr>
<td>Sprinkler-Standpipe</td>
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<td>Structural</td>
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<tr>
<td>Retaining Walls &gt;5’ High</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

YEAR EDITION OF CODE: ________________________________________________________________
☐ New Construction ☐ Renovation (Existing Bldg) ☐ Upfit ☐ Alteration

BUILDING DATA
Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B
☐ IV ☐ V-A ☐ V-B ☐ Mixed construction: ☐ No ☐ Yes Types ______________________
Sprinklers: ☐ No ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☐ Yes
Building Height: _____ Feet _____ Number of Stories ☐ Unlimited per _________________
Mezzanine: ☐ No ☐ Yes
High Rise: ☐ No ☐ Yes Central Reference Sheet # (if provided) ______________________

Gross Building Area:

<table>
<thead>
<tr>
<th>FLOOR</th>
<th>EXISTING (SQ FT)</th>
<th>NEW (SQ FT)</th>
<th>SUB-TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6th Floor</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5th Floor</td>
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<tr>
<td>4th Floor</td>
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<tr>
<td>3rd Floor</td>
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<tr>
<td>2nd Floor</td>
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<tr>
<td>Mezzanine</td>
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<td></td>
<td></td>
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<tr>
<td>1st Floor</td>
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<tr>
<td>Basement</td>
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</tbody>
</table>

TOTAL
ALLOWABLE AREA

Primary Occupancy:  
- Business: B-1, B-2  
- Factory-Industrial: F-1, F-2  
- Institutional: I-1, I-2, I-3, I-4  
- I-3 Use Condition: 1, 2, 3, 4, 5  
- Mercantile: R-1, R-2, R-3, R-4  
- Residential: S-1, S-2  
- Storage: High-piled  
- Utility and Miscellaneous: Parking Garage: Open, Enclosed, Repair

Secondary Occupancy:  
- Business: B-1, B-2  
- Education: E-1, E-2  
- Factory-Industrial: F-1, F-2  
- Institutional: I-1, I-2, I-3, I-4  
- Institutional: I-5  
- Mixed Occupancy: No, Yes  
- Separation: _____ Hr.  
- Exception: ___________________

Special Occupancy:  
- 508.2, 508.3, 508.4, 508.5, 508.6, 508.7, 508.8

Mixed Occupancy:  
- No-Separated Mixed Occupancy (302.3.2)  
- Separated Mixed Occupancy (302.3.3) - See below for area calculations

For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

\[
\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1
\]

\[
\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \ldots = \frac{\text{Total Area}}{\text{Total Allowable Area}} \leq 1.00
\]

<table>
<thead>
<tr>
<th>STORY NO.</th>
<th>DESCRIPTION AND USE</th>
<th>(A) BLDG AREA PER STORY (ACTUAL)</th>
<th>(B) TABLE 503 AREA</th>
<th>(C) AREA FOR OPEN SPACE INCREASE</th>
<th>(D) AREA FOR SPRINKLER INCREASE</th>
<th>(E) ALLOWABLE AREA OR UNLIMITED</th>
<th>(F) MAXIMUM BUILDING AREA</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

1. Open space area increases from Section 506.2 are computed thus:
   a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
   b. Total Building Perimeter = ______ (P)
   c. Ratio (F/P) = ______ (F/P)
   d. W = Minimum width of public way = ______ (W)
   e. Percent of frontage increase \( I_1 = 100 \times \frac{F}{P} - 0.25 \times \frac{W}{30} \) = _____ (%)

2. The sprinkler increase per Section 506.3 is as follows:
   a. Multi-story building \( I_1 = 200 \) percent
   b. Single story building \( I_1 = 300 \) percent

3. Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5); Group A motion picture (507.8); Malls (402.6); and H-2 aircraft paint hangers (507.6).

4. Maximum Building Area = total number of stories in the building \( \times E \) but not greater than 3 \( \times E \).

5. The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.
### ALLOWABLE HEIGHT

<table>
<thead>
<tr>
<th>Building Height in Feet</th>
<th>Type of Construction</th>
<th>Increase for Sprinklers</th>
<th>Shown on Plans</th>
<th>Code Reference</th>
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<tbody>
<tr>
<td>Feet ________</td>
<td>Type _________</td>
<td>Feet = H + 20' = ________</td>
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<tr>
<td>Building Height in Stories</td>
<td>Type _________</td>
<td>Stories ________</td>
<td>Stories + 1 = ________</td>
<td>Stories</td>
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### FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet #, if Provided ________________

<table>
<thead>
<tr>
<th>Building Element</th>
<th>Fire Separation Distance (Feet)</th>
<th>Rating Req’d</th>
<th>Rating Provided (W/ Reduction)</th>
<th>Detail # and Sheet #</th>
<th>Design # for Rated Assembly</th>
<th>Design # for Rated Penetration</th>
<th>Design # for Rated Joints</th>
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<tr>
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</tbody>
</table>

* Indicate section number permitting reduction
LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:  □ No  □ Yes
Exit Signs: □ No  □ Yes
Fire Alarm: □ No  □ Yes
Smoke Detection Systems: □ No  □ Yes
Panic Hardware: □ No  □ Yes

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

<table>
<thead>
<tr>
<th>FLOOR, ROOM OR SPACE DESIGNATION</th>
<th>MINIMUM(^2) NUMBER OF EXITS</th>
<th>TRAVEL DISTANCE</th>
<th>ARRANGEMENT MEANS OF EGRESS(^1,2) (SECTION 1004.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REQUIRED SHOWN ON PLANS</td>
<td>ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)</td>
<td>ACTUAL TRAVEL DISTANCE SHOWN ON PLANS</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

1 Corridor dead ends (Section 1004.2.3)
2 Single exits (Table 1005.2.2)
3 Common Path of Travel (Section 1004.2.5)

EXIT WIDTH

<table>
<thead>
<tr>
<th>USE GROUP OR SPACE DESCRIPTION</th>
<th>(a)</th>
<th>(b)</th>
<th>(c)</th>
<th>EXIT WIDTH (in)(^2,3,4,5,6)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AREA(^4) per occupant (TABLE 1003.2.2.2)</td>
<td>EGRESS WIDTH PER OCCUPANT (TABLE 1003.2.3)</td>
<td>REQUIRED WIDTH (SECTION 1003.2.3) ((a+b) x c)</td>
<td>ACTUAL WIDTH SHOWN ON PLANS</td>
</tr>
<tr>
<td></td>
<td>STAIR LEVEL</td>
<td>STAIR LEVEL</td>
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<td>STAIR LEVEL</td>
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</table>

1 See Table 1003.2.2.2 to determine whether net or gross area is applicable.
See definition "Area, Gross" and "Area, Net" (Section 1002)
2 Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)
3 Minimum width of exit passageway (Section 1005.3.3)
4 See Section 1003.2.2.7 for converging exits.
5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1003.2.3)
6 Assembly occupancies (Section 1008)
STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind \( (I_W) \) ________
Snow \( (I_S) \) ________
Seismic \( (I_E) \) ________

Live Loads: Roof ________ psf
Mezzanine ________ psf
Floor ________ psf

Snow Load: ________ psf

Wind Load: Basic Wind Speed ________ mph (ASCE-7-98)
Exposure Category ________
Wind Base Shears (for MWFRS) \( V_x = \) ________ \( V_y = \) ________

SEISMIC DESIGN CATEGORY A
Compliance with Section 1616.4 only? ☐ Yes ☐ No

SEISMIC DESIGN CATEGORY B, C, & D
Provide the following Seismic Design Parameters:

Seismic Use Group
Spectral Response Acceleration \( S_{MS} \) ________ %g \( S_{M1} \) ________ %g
Site Classification ________
Basic structural system (check one)
  _____ Bearing Wall  _____ Dual w/Special Moment Frame
  _____ Building Frame  _____ Dual w/Intermediate R/C or Special Steel
  _____ Moment Frame  _____ Inverted Pendulum

Seismic base shear \( V_x = \) ________ \( V_y = \) ________
Analysis Procedure
  _____ Simplified  _____ Equivalent Lateral Force  _____ Modal
Architectural, Mechanical, Components anchored? ________

LATERAL DESIGN CONTROL:
  Earthquake ________ Wind ________

SOIL BEARING CAPACITIES:
  Field Test (provide copy of test report) ________ psf
  Presumptive Bearing capacity ________ psf
  Pile size, type, and capacity ___________________________________

PLUMBING FIXTURE REQUIREMENTS

<table>
<thead>
<tr>
<th>OCCUPANCY</th>
<th>WATERCLOSETS</th>
<th>URINALS</th>
<th>LAVATORIES</th>
<th>SHOWERS/ TUBS</th>
<th>DRINKING FOUNTAINS</th>
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<tbody>
<tr>
<td></td>
<td>MALE</td>
<td>FEMALE</td>
<td>MALE</td>
<td>FEMALE</td>
<td>REGULAR</td>
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ACCESSIBLE PARKING

<table>
<thead>
<tr>
<th>LOT OR PARKING AREA</th>
<th>TOTAL # OF PARKING SPACES REQUIRED</th>
<th># OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE</th>
<th>TOTAL # ACCESSIBLE PROVIDED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PROVIDED</td>
<td>VAN SPACES WITH 8' ACCESS AISLE</td>
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<td></td>
<td>TOTAL</td>
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</table>
SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

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ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

THERMAL ENVELOPE

Method of Compliance:

- Prescriptive
- Performance
- Energy Cost Budget

Roof/ceiling Assembly (each assembly)
- Description of assembly
- U-Value of total assembly
- R-Value of insulation
- Skylights in each assembly
  - U-Value of skylight
  - total square footage of skylights in each assembly

Exterior Walls (each assembly)
- Description of assembly
- U-Value of total assembly
- R-Value of insulation
- Openings (windows or doors with glazing)
  - U-Value of assembly
  - shading coefficient
  - projection factor
  - low e required, if applicable
- Door R-Values

Walls adjacent to unconditioned space (each assembly)
- Description of assembly
- U-Value of total assembly
- R-Value of insulation
- Openings (windows or doors with glazing)
  - U-Value of assembly
  - Low e required, if applicable
- Door R-Values

Walls below grade (each assembly)
- Description of assembly
- U-Value of total assembly
- R-Value of insulation

Floors over unconditioned space (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation

Floors slab on grade
Description of assembly
U-Value of total assembly
R-Value of insulation
Horizontal/vertical requirement
slab heated

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**ELECTRICAL SUMMARY**

**ELECTRICAL SYSTEM AND EQUIPMENT**

Method of Compliance:
- Prescriptive
- Performance
- Energy Cost Budget

**Lighting schedule**
- lamp type required in fixture
- number of lamps in fixture
- ballast type used in the fixture
- number of ballasts in fixture
- total wattage per fixture
- total interior wattage specified vs allowed
- total exterior wattage specified vs allowed

**Equipment schedules with motors** (not used for mechanical systems)
- motor horsepower
- number of phases
- minimum efficiency
- motor type
- # of poles

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**MECHANICAL SUMMARY**

**MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT**

Method of Compliance
- Prescriptive
- Energy Cost Budget

**Thermal Zone**
- winter dry bulb
- summer dry bulb

**Interior design conditions**
- winter dry bulb
- summer dry bulb
- relative humidity

**Building heating load**

**Building cooling load**
Mechanical Spacing Conditioning System

Unitary
  description of unit
  heating efficiency
  cooling efficiency
  heat output of unit
  cooling output of unit

Boiler
  total boiler output. If oversized, state reason.

Chiller
  total chiller capacity. If oversized, state reason.

List equipment efficiencies

Equipment schedules with motors (mechanical systems)
  motor horsepower
  number of phases
  minimum efficiency
  motor type
  # of poles