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Project Name: Deadwood Alive

Address: Main Street Deadwood, SD

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Note: This plan review does not cover all items listed in the Codes. It is the responsibility of the contractors to comply with all other code requirements.

I. General Information

- A. 2021 International Building Code.
- B. 2021 International Fire Code.
- C. All construction to meet any other City of Deadwood requirements.
- D. 1 Story Tent Structure to be used as a temporary structure for the Trial of Jack McCall.

II. Code Evaluation

- A. IBC Chapter 3 – Use and Occupancy Classification

- 1. Occupancies

- a. A1 Occupancy

- B. Chapter 5 – General Building Height and Area Limitations

- 1. Section 503 – General Height and Area Limitations

	Allowable Area	Allowable Stories	Allowable Height
	Table 506.2	Table 504.4	Table 504.3
A1 Occupancy	5,500 SF	1 Stories	40'
Actual area	1325 Sq. Ft.		

III. IBC Section 3102.1

- A. Tent and Membrane structures erected for a period of less than 180 days shall comply with the International Fire Code

IV. IBC Section 3103.3 Location

- A. Temporary structures shall be located in accordance with Table 705.5 based on fire-resistance rating of the exterior walls for the proposed type of construction.
 - 1. Table 705.5 A occupancy of type VB construction requires a one-hour rated wall within five feet of a property line.

V. IFC Chapter 31 Tents, Temporary Special Event Structures and Other Membrane Structures.

- A. Section 3103.8.2 Location

- 1. Tents or membrane structures shall not be located within 20 feet of lot lines or buildings.

- a. Exception #2.

- a. Membrane structures need not be separated from buildings where all of the following conditions are met:

- i. The aggregate floor area of the membrane structure shall not exceed 10,000 square feet.

- ii. The aggregate floor area of the building and membrane structure shall not exceed the allowable floor area including increases as indicated in the IBC.
- iii. Required means of egress are provided for both the building and the membrane structure including travel distances.
- iv. Fire apparatus access roads are provided in accordance with section 503.

VI. IBC Chapter 10

A. Chapter 10 – Means of Egress

1. Assembly areas: Sq. Ft. divided by 7.

- a. 1325 sq. ft. / 7 = 190.
- b. Two exits required.
- c. Exit doors shall swing in the direction of exit travel.

2. IFC Section 3103.12 Means of Egress

- a. Means of Egress for membrane structures and tents shall be in accordance with sections 3103.12.1 through 3103.12.8.

3. IFC Table 3103.12.2 Minimum width of each means of egress.

- a. Occupant load 10 to 199
 - a. 2 means of egress
 - b. Minimum width for tents is 72 inches.

4. IFC section 3103.12.3 Exit openings from tents.

- a. Exit openings from tents shall remain open unless otherwise covered by a flame-resistant curtain. The curtain shall comply with the following requirements.
 - a. Curtains shall be free sliding on a metal support. The support shall be not less than 80 inches above the floor level at the exit.
 - b. Curtains shall be of a color, or colors, that contrasts with the color of the tent.

5. IFC section 3103.12.5 Aisle.

- a. In public areas, smooth-surfaced, unobstructed aisles having a minimum width of not less than 44 inches shall be provided from seating areas.

6. IFC Section 3103.12.6 Exit signs

- a. Exits shall be clearly marked.
- b. Exit signs shall be installed at required exit doorways and where otherwise necessary to indicate clearly the direction of egress where the exit serves an occupant load of 50 or more.
- c. Exit signs shall be illuminated with light having an intensity of not less than 1 foot-candle at the floor level. Fixtures required for means of egress illumination shall be supplied from a separate circuit or source of power.

7. IFC Section 3104.2 Flame propagation performance testing and certification.

- a. The owner shall file with the fire code official a certificate provided by the product manufacturer to verify the materials have been tested and certified by an approved testing laboratory. The tent needs to meet the requirements of NFPA 701.