1. **Universal Design / ADA Requirements**

The American Disabilities Act of 1990 states that “no individual may be discriminated against on the basis of disability with regards to the full and equal [enjoyment](http://en.wikipedia.org/wiki/Enjoyment) of the goods, services, facilities, or accommodations of any place of *public accommodation* by any person who owns, leases (or leases to), or operates a place of *public accommodation*.” "Public accommodations" include most places of lodging (such as inns and hotels), recreation, transportation, education, and dining, along with stores, care providers, and places of public displays, among other things. To meet code, doorways need to be 36” wide. There also needs to be at least one non-stair entry with a ramp that has a one twelve slope and is 96’ in total length. An elevator is required since our building is three stories high.

2a**. International Building Code**

Denver, Colorado building codes are based on the 2011 National Electrical Code, NFPA code 72 (National Fire Protection Association) and the 2009 Series of International Building Codes, as stated on the Denver Government Website. Our structure, an under-21 club is an Assembly Group A-2 occupancy type (found in IBC Section 303.3). According to International Building Code, there are four construction types as follows:

*From IBC 2009 Section 602*

*Types I and II: Building elements listed in Table 601 are noncombustible. Types I and II are differentiated by the fire-resistance ratings of the building components.*

*Type III: Exterior Walls are noncombustible and interior elements are of any material permitted by the code.*

*Type IV: Heavy Timber Construction*

*Type V: Structural elements, exterior walls, and interior walls are of any material permitted by the code.*

Our structure would be eligible for a Type III-A building type or higher. The least restrictive would be a Type IV. A fire-protective layer is required over structural elements.

6. What materials do you propose to use for the new interior walls and floor for this building? Justify your answer.

For the interior of our building,

7. Use the IBC to determine the Occupant Load. Section 1004

493

8. The occupant load is used to determine the minimum egress width for the building. Use the IBC to determine the required total egress width (IBC 2009 Section 1005) for this building.

9. What is the minimum number of exits required for the Occupant Load?

10. Read IBC 2009 Section 1021.2. Is it permissible to have only a single exit from the ground floor? From the second floor? Justify your answers.

No, we have multiple stories. Table 1021.2

11. In which zoning designation does this building lie?

Planned Business (Local Ordinances)

12. What is the purpose of this zoning designation?

To encourage well-planned business use. Section159.107

2b**. Land Use Regulations: Local Ordinances**

Denver, Colorado

1. **LEED Certification**