



City of Fernley  
Building Division  
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## Building Department Handout

# Racking System

**Scope:** A building permit is required for racking/shelves exceeding 5' 9" in height per 2018 International Building Code (IBC), Section 2209, and the 2018 International Fire Code (IFC), Section 105 and Chapter 32. High Pile Racking is racks above 12'. Due to City Of Fernley being within seismic design categories D area, Special Inspections on the bolts are required for storage racks 8' or greater in height per IBC Section 1705.11.7.

### A Racking Plan submittal must include the following items;

- Two (2) Copies Special Inspector Agreement completely filled out with Special Inspector and owner signature.
- Two (2) Floor plan drawings of building area, and Two (2) Site plan drawings for exterior racking.
- Plans must be prepared on a **minimum of 11" x 17" paper size.**
- Plans **must be photocopies, or original blue or black ink drawings.** The use of pencil, colored ink, other than blue or black, or the use of colored ink beyond that which is used for licensing seals and/or original signatures on plan sets.
- Site plans must be fully dimensioned and drawn to scale.
- Provide a **title block on each plan sheet** with the project address and assessor parcel number (APN). If applicable, include the owner's name and contact information.
- **Plans prepared by a Nevada licensed General Contractor** must have the business name, business address, bid limit, license classification type, license number and license expiration date printed in a title block labeled "Designer" on the each sheet of the plan set. **Plans must include a statement that the racks will be installed per Manufacturing Listing Instruction.** Below this information, within the "Designer" title block on the Site Plan and Cover Sheet must be an original signature of the qualified employee on the license, with the date of signing.
- **Plans prepared by a Nevada licensed Registered Design Professional** (Architect, Residential Designer, or Engineer) must comply with the applicable Nevada Administrative Code (NAC) for their licensure.
- **Two (2) copies of original signed Engineering Calculation.**

### Sheets That Constitute a Complete Plan Set:

*Plans and specifications must be of sufficient quality to clearly indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of the technical codes and all relevant laws, ordinances, rules and regulations. The following information must be incorporated on the plans as outlined below; some items may not be applicable to your specific project:*

(see reverse side)

- **Floor Plan**
  - Floor plan of the building showing locations and dimensions of the *storage areas*.
  - Updated Egress path for both existing and new areas. (Certified Exiting Analysis)
  - Upgrade exit lighting plans to meet egress path thru and around racking system.
  - Usable storage height for each storage area.
  - Number of tiers within each rack and design of floor attachment.
  - Commodity clearance between top of storage and the sprinkler deflector.
  - Aisle dimensions between each storage array.
  - Maximum pile volume for each storage array.
  - Location and classification of commodities in accordance with Section 3203.
  - Location of commodities which are banded or encapsulated.
  - Location of required fire department access doors.
  - Type of fire suppression and fire detection systems.
  - Location of valves controlling the water supply of ceiling and in-rack sprinklers.
  - Type, location and specifications of smoke removal and curtain board systems.
  - Dimension and location of transverse and longitudinal flue spaces.
  - Additional information regarding required design features, commodities, storage arrangement and fire protection features within the high-piled storage area shall be provided at the time of permit, when required by the *fire code official*.
  
- **Site Plan** (If required)
  - Provide North Arrow
  - Site plan must be drawn to an approved engineering scale (1"=10', 1"=20' & 1"=30'). Indicate on the Site Plan the approved engineering scale used.
  - Provide APN (Assessor Parcel Number) and address of proposed project.
  - Show the complete parcel, with all property lines dimensioned
  - Show all easements
  - Show the location of the structure(s) to be demolished, all existing structures on the property, location of the capping of the water and sewer or abandonment of well and septic.
  - **Utilities:** Show all utility laterals to the building (water, sewer, power, TV, phone, septic, replacement field).
  - Indicate the street name(s) that border the property

**Policies & Procedures:**

- Plan submittals that are reviewed and found deficient, the contractor will receive a detailed letter requesting that all deficiencies are to be addressed. It is the responsibility of the contractor, or the designated contact individual to coordinate the correction of all plan deficiencies. The designated contact individual will be notified to remove previously submitted plan sets for correction.
- Once all deficiency items have been addressed the designated contact individual for the project may resubmit corrected plan sets.
- Once plans are approved, the contractor of record will be notified.

**Inspection:**

A final building inspection will be done. The special inspector final report addressing the floor anchorbolts or filed welding will be given to the filed inspector. A Fire final will have to be completed prior to the building final inspection.