



## Clark County Department of Building & Fire Prevention

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<b>Division:</b>	<b>Building - Plans Examination, Engineering, and Inspections</b>	<b>Policy &amp; Procedure:</b>	<b>BD-PP-217</b>
<b>Subject:</b>	<b>Engineered Wood Trusses and Steel Joists</b>	<b>Effective Date:</b>	<b>05/01/2007</b>
<b>Code:</b>	<b>2018 IBC Sections 2207 and 2303.4</b>	<b>Revised Date:</b>	<b>01/01/2021</b>

### A. POLICY

The Clark County Building Department requires submittal and approval of an Engineering Wood Truss or steel joist package when those components are used as a floor and/or roof support structure.

An Engineered Wood Truss package shall consist of a truss placement plan/joist layout plan, engineered sealed wood truss design drawings, and engineered sealed calculations. Engineered wood trusses and steel joists may be submitted as a deferred submittal in accordance with policy and procedure BD-PP-055.

### B. PROCEDURE

1. In addition to all the other required documentation to be submitted for a building permit, an engineered wood truss package is a required document for the permit.
2. When the structure is designed by a Nevada licensed design professional, the following process shall occur:
  - a. Final truss placement/steel joist layout plans, engineered sealed wood truss design drawings, and engineered sealed calculations shall be delivered to the licensed design professional of record, for review.
  - b. The building designer shall review the truss placement plans/steel joist layout plans, wood truss design drawings, and calculations for conformance with the construction design documents. Upon acceptance, the licensed design professional shall either place a signed and dated “shop drawing review stamp” on the truss package or issue a signed letter of approval for a dated truss calculation package.
  - c. In addition to the normal review of the submitted documentation, the plans examiner assigned to the project will review the truss package for the following items:
    - 1) Nevada professional engineer’s seal, signature, and date on the wood truss design drawings and the wood truss or steel joist calculations.
    - 2) The “shop drawing review stamp” or signed letter of approval from the licensed design professional of record on the project.
    - 3) The truss placement for general conformance to the submitted plans.
    - 4) The location of the truss bearing points for consistency with bearing walls, beams, headers, posts, etc.
    - 5) Location and magnitude of concentrated gravity loads for consistency with the design documents.
    - 6) Location and magnitude of lateral/drag loads for consistency with the design documents.

- 7) The fabricator is verified as a Clark County approved wood truss manufacturer or steel fabricator.
3. When the structure is not designed by a licensed design professional and the design utilizes the conventional light frame construction methods from the International Building or Residential Code, the following process shall occur:

In addition to the normal review of the submitted documentation, the Plans Examiner assigned to the project will review the engineered wood truss package for the following items:

    - a) Nevada professional engineer's seal, signature and date on the truss design drawings and calculations.
    - b) The truss placement for general conformance to the submitted plans.
    - c) The location of the truss bearing points for consistency with bearing walls, beams, headers, posts, etc.
    - d) The top chord dead and live loads used in the design of the trusses.
    - e) Bottom chord dead and live loads used in the design of the trusses.
    - f) Location and magnitude of concentrated gravity loads.
    - g) The fabricator is verified as an approved wood truss manufacturer.
  4. The plans examiner, upon acceptance, will stamp the engineered wood truss or steel joist package as "approved" and it will be included with the other documents issued with the building permit and sent to the Building Department Records Office.
  5. When significant design changes occur after the review is completed, where modifications to the trusses are made due to framing plan changes, the Building Department shall require submittal of revised plans, calculations, and truss designs as appropriate.
  6. When repairs or fixes are required, the applicant shall submit the appropriate documentation to the Department of Building & Fire Prevention as a revision to the building permit.
  7. When an engineer other than the original truss design engineer prepares truss plans and calculations for final construction, a complete truss design package must be resubmitted with the new engineer's stamp and signature. This submittal shall follow the procedure above and be processed as a **deferred submittal** and assessed hourly charges as allowed by Clark County Building Administrative Code.

#### Related Policies and Procedures

##### BD-PP-055 Deferred Plan Submittal Requirements

**Prepared By:** Building Division

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**Revision History:**

Title	Revision/Approved Date	Effective Date
Engineered Wood Trusses BP-PP-060		05/01/2008
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Engineered Wood Trusses and Steel Joists