

Constructability Review Checklist

In order to generate a thorough Constructability Review (and to provide any takeoff information), there are certain required documents, information and files necessary that must be submitted. Essentially we are building the structure BEFORE you are and will need the same information and details you will prior to actual construction.

Please review the checklist and submit all of the required files and information. We will review the submitted files and advise of incomplete information and/or additional files necessary.

- Full Set of Drawings** in **PDF** format (submit DWGs in addition when possible - note that DWGs typically do not show any text, so PDFs are necessary to view drawing information and details). Please submit original PDFs versus Scanned Drawings. Original PDFs typically contain vector data that aids in modeling. Scanned drawings are typically not usable.
 - Footings and Foundations (sizes, heights, including stem walls and sub-foundations)
 - Floor Systems (sizes, spacing, type (TJI, Conventional Lumber, Truss), all beams and girders must be specified)
 - Floor Plans (including wall heights, ALL header and beam sizes, window and door schedule)
 - Elevations
 - Roof Plan
 - Sections (including stair geometry requirements)
 - Structural Engineering: Often structural engineering drawings are a separate set of drawings (please submit), but either way, all beams, girders, headers, etc. must be specified.
- Site Plan** - in order for a site model to be generated (and to include any cut/fill analysis), site plans must contain necessary information, including;
 - Survey showing building location
 - Existing Contours
 - Proposed Contours
 - Elevation of structure (finished floor elevation for at least one level)
 - Driveways, patios, etc.
- Floor and/or Roof Trusses** - In order for any roof or floor trusses to be modeled and studied, we must receive the 3D file from client's vendor/engineer. Most truss softwares utilized by truss vendors allow them to EXPORT a **3D** view or file. Typical formats are .DWG or .DXF. 2D files are **NOT** acceptable. Note that typical file sizes for these formats are relatively large (average about 15 MB, if file size is 2MB or less, it is probably only 2D geometry). In addition, please submit any 2D PDF drawings of the truss layouts to aid in modeling and review.
- Typical Information Missing or Incomplete:** The following items are routinely missing or not fully specified, so please verify the following information is provided.
 - Header sizes - often only headers in load-bearing walls are specified, but interior non-load bearing headers must be specified as well (2 - 2x4?, flat 2x4?, other?)
 - Any information pertaining to the common note "By Others"
 - Beams/Girders are often not specified as to Flush or Dropped