

# Construction Plans

## Items Typically Included

- ✓ Applicants for *Building Permits* in Goodhue County should provide two (2) complete sets of project construction plans for review. The County Building Inspection Department must review construction drawing for compliance with the Minnesota State Building Code. Goodhue County will retain (for a limited period of time) one set of construction plans; one set of reviewed plans will be returned to the applicant to be kept on-site for inspections.
- ✓ Construction Plans typically include the items listed below as appropriate to the project. Minimum Scale: ¼" = 1'.

**Elevations** .....Show front, rear, and side elevations of the structure.

**Floor Plans** .....Include floor plans of all area and each level of the proposed project. Floor plans should include all dimensions, room descriptions, location of all plumbing fixtures, location of the mechanical areas and the placement of mechanical units, radon mitigation system details, locations of all doors and the door swings, and any applicable notes.

**Footings** .....Include the depth and the width of the footings, the size and placement of bearing pads, and the size and placement of reinforcement. For wood footings and foundations, submit a cross section of rock depth, size, and other construction details as well as the system manufacturer's specifications.

**Foundations**..... Include block size or poured concrete wall size, reinforcement placement, size and spacing, and finished height above the footing. For specific manufactured foundation systems such as ICF systems and wood foundation systems, submit the manufacturer's specifications and the related construction details.

**Studs** .....For all interior and exterior walls, indicate the stud size and spacing.

**Joists / Beams / Posts** .....Include size and type of all headers, micro lam and laminated veneer lumber (LVL). For steel beams include the beam size designation number (i.e.: W10x29). For I-joists include the size, the spacing, the manufacturer, and additional pertinent details.

**Stairways** .....Include the maximum riser height, the minimum tread measurement, the vertical head room, handrail, guardrail height, and baluster spacing.

**Exterior Sheathing** .....Indicate the size and the type of all exterior sheathing.

**Exterior Siding** .....Indicate the size and the type of all exterior siding.

**Exterior Wall Insulation** .....Indicate the size, the type, and the R-value of all exterior wall insulation.

**Vapor Barrier** .....Indicate the type of vapor barrier to be used in the walls and ceiling.

**Interior Walls / Ceilings** .....Indicate the size and the type of interior wall and ceiling coverings.

**Ceiling Insulation** .....Indicate the type, the thickness, and the R-value of ceiling insulation.

**Conventional Roof** .....Indicate the size and the spacing of all framing members, the size and the type of sheathing, shingle type and weight, and underlayment material.

**Truss Roof** .....Trusses must be designed by a registered engineer of the State of Minnesota or manufactured by a certified manufacturer of trusses approved by the State.

**Windows** .....Include the manufacturer, product number, rough opening, header size, style or type of window (double hung, casement, awning, sliding...), and the U-values.

**Minnesota Energy Code**..... Provide details of radon mitigation. Indicate insulation types, thickness and R-values. Include U-values of all fenestration products.

**Mechanical Calculations** .....Provide calculations that show system ventilation, combustion air requirements, and make-up air requirements.

**Smoke Detectors** .....Show placement of smoke detection and carbon monoxide detection devices.

**Fire Protection** .....Submit details of the fire protection between living quarters and attached garage.

**Fireplace / Wood Burners** .....Include chimney type and size, construction details, and any other pertinent information.