

### How to use this guide: THIS IS NOT A BUILDING PERMIT APPLICATION!

This guide was designed to assist the do-it-yourselfer create a construction plan to build a simple one story detached garage using conventional construction methods. Non-conventionally constructed garages will require a design professional.

- 1. **Complete this Building Guide** by filling in the blanks on page two and three and indicating which construction details will be used.
- 2. **Provide a Site Plan** showing the dimensions of your project and its relationships to existing buildings or structures, utilities, property lines and easements. In addition to project dimensions, your plot plan must also show direction of trusses, location and detail of wall bracing, and any other pertinent information not shown on the section drawing.
- 3. Now you are ready to apply for your building permit. This guide is not mandatory to accompany your building permit application; however, it will assist in the review process and speed up your permit approval. The majority of permit applications can be processed with little delay. This document will help determine if the project is in compliance with building codes, zoning ordinances and other applicable laws.
- 4. **Inspections.** An inspection is required before footings can be poured and setbacks verified. A framing inspection is required before installing siding to verify plans are being followed and that proper bracing is used. All projects must receive a final inspection in order to verify that your project exterior meets code, grade is proper and to close out the permit. Remember **YOU** are responsible to get the inspections! If you are unsure during the construction process please contact your Department of Building Safety.



DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2021 International Residential Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.

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### Single Family Residential—One Story Detached Garage

Address:

# Directions

- 1. Fill in the blanks on pages 2 and 3 with dimensions and materials which will be used to build the structure. Please print legibly.
- 2. Indicate in the check box on page 3 which foundation detail from page 4 will be used.

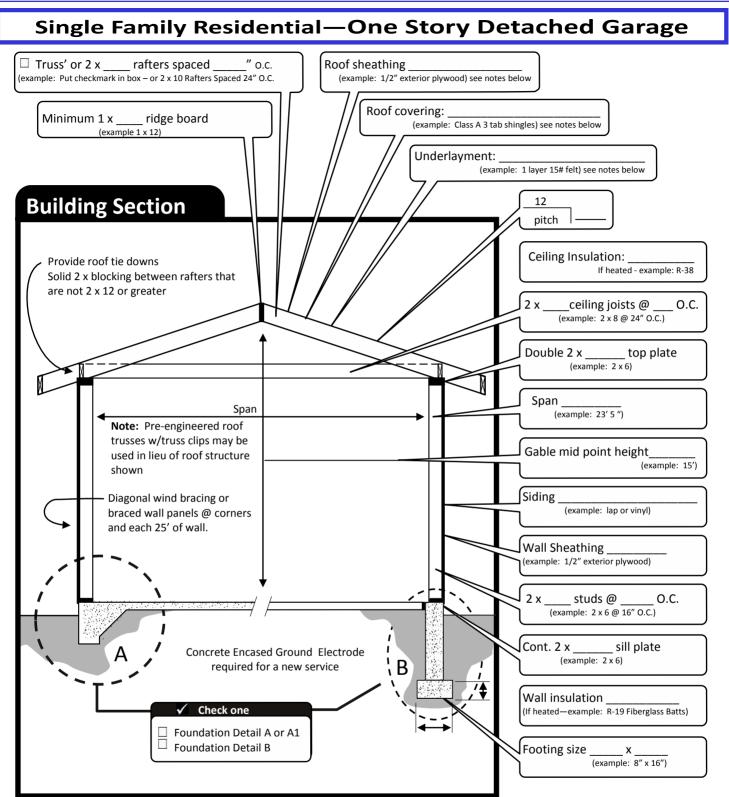
Note: Heated garages may require special provisions.

#### **Floor Plan** Dimension Indicate rafter or Locate and detail truss direction wall bracing Check one Garage is heated Garage is not heated Show door and window header sizes and location and size of landing if more than two risers. Floor slope back to Dimension 3 1/2" minimum concrete slab front not less than all vegetation shall be removed . 1/8" per ft (408.5) (IRC 309.1) Man Door Door Header size х **Opening Width** (example (2) 2 x12 or engineered lumber) Man Note: If roof trusses or rafters bear on header, special header design may be required Double 2x4 or 2x6 jack studs at each end of overhead door header. Garage door opening Garage door opening width\_ \* See Braced Wall Panel Detail on page 4 to comply Dimension\* Dimension\* with section (IRC 602.10.2)

#### **NOTES - Concrete Slab**

- All sod and vegetation <u>must</u> be removed.
- If fill is required under slab it must be compacted sand or gravel.
- Floating slab from Detail A and A1 shall be monolithically poured.
- Welded wire fabric or equivalent in slab.
- Minimum 12" perimeter footing (all four sides at least 12" below grade) (IRC 403.1.4).
- Concrete floor or curb to be 6" min. above grade (IRC 404.1.6).
- Floating slab, with 12" x 12" thickened perimeter, shall be a maximum of 1250 sq ft (Kewanee Ord 150.017B).

# 2

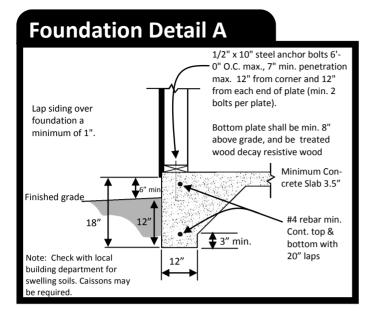


#### Notes:

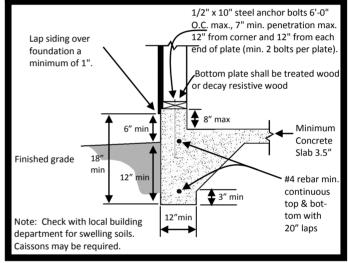
- Roof sheathing shall be a minimum of 3/8" plywood, for non-veneer OSB/WB 7/16" is the minimum. Sheathing spanning 16" or 24" on center, structural clips must be provided at the center point of each span (table R503.2.1.1 (1)d).
- For roofs with slopes less than 4:12, follow manufacturer's instructions for low slope application of roofing material.
- Shingles must be rated for 90 MPH and over 15# felt.
- Heated buildings require ice dam barrier applied inside of roof/wall junction.
- Hurricane straps, rafter ties or other tie downs shall be used to attach all roof rafters or trusses to top plates. When double top plates are used, straps or ties must attach to both plates.

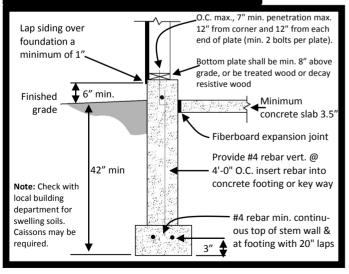
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## Single Family Residential—One Story Detached Garage



# Foundation Detail A1





Foundation Detail B

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### Single Family Residential—One Story Detached Garage

# **Braced Wall Panel Detail**

