

# **Building Guide**

**ILLOWA Chapter of ICC** 

# Single Family Residential One Story Detached Garage



## How to use this guide:

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. The majority of permit applications can be processed with little delay. The submitted documents will help determine if the project is in compliance with building codes, zoning ordinances and other applicable laws.



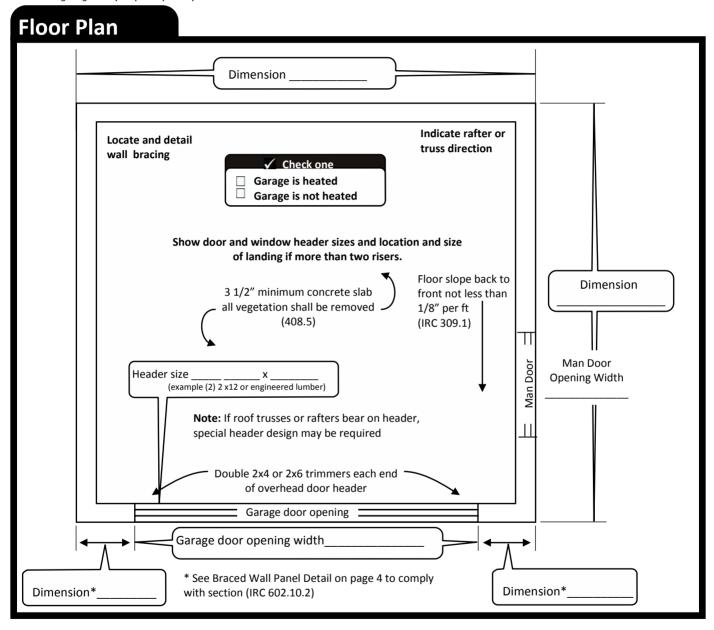
DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2009 International Residential Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.

#### **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.

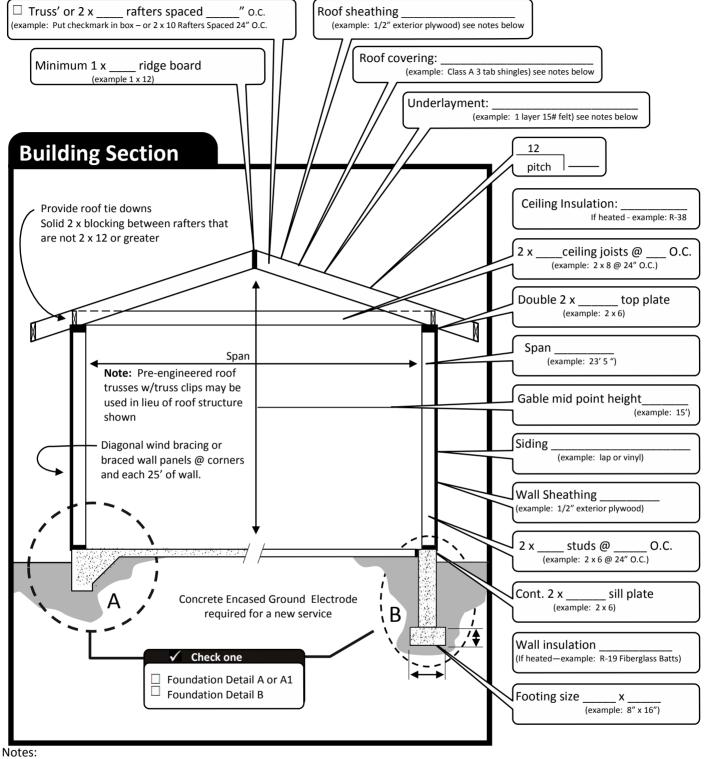
Address:

Note: Heated garages may require special provisions.



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

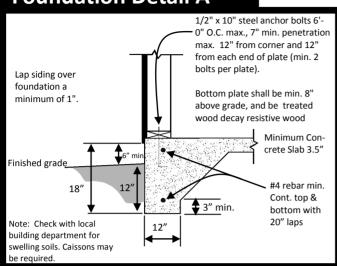
- All sod and vegetation <u>must</u> be removed.
- If fill is required under slab it must be compacted sand or gravel.
- Floating slab from Detail A and A1 shall be monolithically poured.
- Welded wire fabric or equivalent in slab.
- Minimum 12" perimeter footing (all four sides at least 12" below grade) (IRC 403.1.4).
- Concrete floor or curb to be 6" min. above grade (IRC 404.1.6).
- Floating slab shall be a maximum of 720 sq ft (IRC 403.1.4.1 Exception 1) with no dimension exceeding 30 ft.



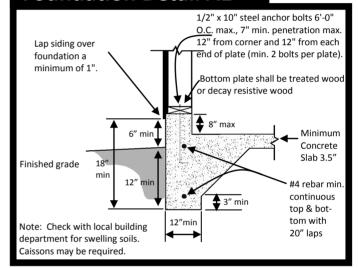
- Roof sheathing shall be a minimum of 3/8" plywood, for non-veneer OSB/WB 7/16" is the minimum. Sheathing spanning 16" or 24" on center, structural clips must be provided at the center point of each span (table R503.2.1.1 (1)d).
- For roofs with slopes less than 4:12, follow manufacturer's instructions 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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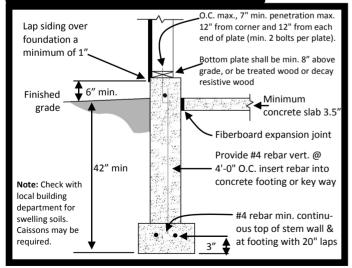
## **Foundation Detail A**



## **Foundation Detail A1**

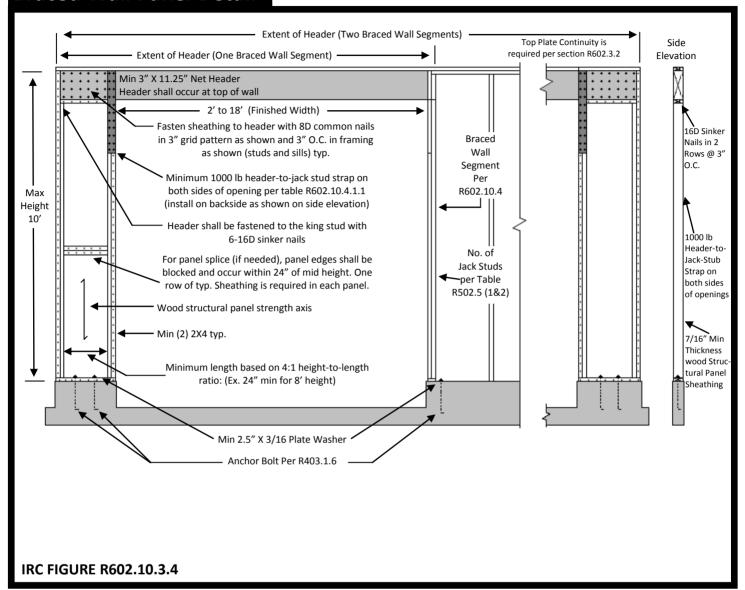


# **Foundation Detail B**



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## **Braced Wall Panel Detail**



| Notes: |   |
|--------|---|
| •      | For more information on wall bracing go to: www.apawood.org/wallbracing |

Construction project notes: