



Building Guide

Colorado Chapter of the International Code Council

Unheated Single Family Residential Enclosing Existing Patio Covers

How to Use this Guide

Check with your jurisdiction regarding type of submittal (paper or electronic) and for additional requirements. Draw to scale and complete the following (*hint: use graph paper with 1/4" squares. Example: 1/4" = 1'*).

1 Complete this Building Guide by filling in the blanks on page four and five, and indicating which construction details will be used.

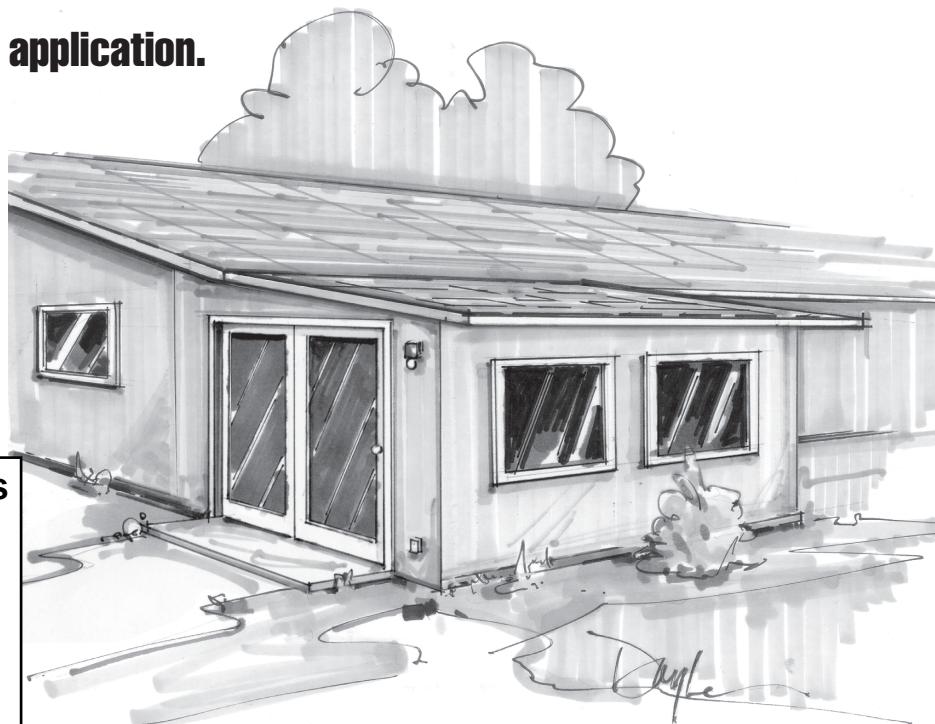
2 Provide Plot Plan (site plan) showing dimensions of your project or addition and its relationship to existing buildings or structures on the property and the distance to existing property lines drawn to scale.

3 Fill out a building permit application.

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

Provide building materials and colors samples

Additions and attached structures should match the appearance of the existing structure



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City of Thornton Building Inspection Division
9500 Civic Center Drive, Thornton, CO 80229
303-538-7250
buildings@thorntonco.gov

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General Notes

1. This submittal would enclose an existing code compliant and previously permitted patio cover with new walls of glass, framing, or other approved materials, to create a new non-heated, non-habitable enclosed patio
2. Under Appendix BF of the 2024 IRC, Patio Cover enclosure walls may have any configuration, provided the open or glazed area of the longer wall and one additional wall is at least 65% of the area below a minimum of 6 feet 8 inches of each wall, measured from the floor
3. Note that all existing house windows and doors must remain in place. Heated areas and habitable rooms shall be submitted as a residential addition. Check with your local building department for specific design and submittal requirements.
4. The new room shall not block required egress from any area and shall not reduce any required natural light and ventilation.
5. Garage walls, doors, and windows that previously had an exterior exposure but are now within the enclosure shall be modified to meet required fire rated separation requirements.
6. Smoke alarms and carbon monoxide alarms shall be installed throughout the residence in compliance with R310.3 and R311.3. Wireless alarms are acceptable
7. Various ICC-ES Patio Cover Reports prohibit enclosure.
8. Contact your local Building Department regarding electrical wiring requirements and applicable codes.
9. Provide gutters and downspouts with adequate drainage away from the structure.

Minimum Submittal Documents

- A completed permit application.
- Plot plans (site plan) showing the location of the structure to be enclosed, its relationship to existing buildings or structures on the property, and the distance to all property lines.
- A complete set of construction documents, clearly indicating all components and how they are to be anchored to one another, to the slab / foundation, to the roof, and to the dwelling.
- A floor plan view of all room uses within the dwelling that are directly adjacent to the new patio enclosure. Include any existing windows wells (from the basement) that would now be within the enclosure. See sample drawing on page 4
- Details regarding how the new walls / glazing shall be protected from any potential slab movement due to frost and expansive soils.

Submittal Documents that may be Required by Local Jurisdiction

- Engineered stamped construction drawings listing wind and snow loading.
- Engineered stamped foundation plans for the support of all walls / columns
- Frost protected foundation systems, or protection of existing slabs
- A current ICC-ES or other approved inspection / design report for proprietary wall component systems or assemblies.
- Provide an electrical plan indicating locations of outlets, lights and switches.
- Stamped engineering for any special construction details, including anchoring the new roof assembly to existing rafter tails, or alternate methods or materials
- Clarification of the type and location of lateral (wind) bracing, wall to foundation bolting, etc

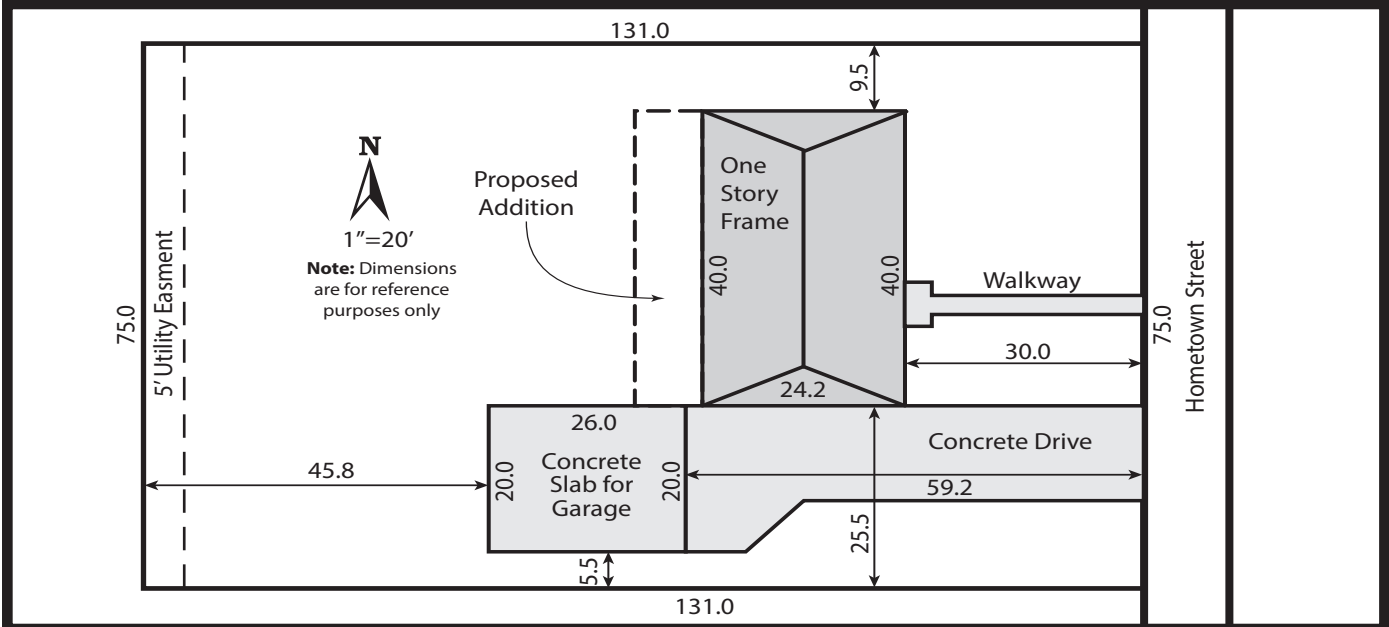
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Note: A plot plan (plan view) showing the dimensions of your project or additions and its relationships to existing buildings or structures on the property must be included. In addition to project dimensions, your plot plan must also show other details such as post locations and spacing, joist and beam spans, and any other pertinent information not shown on the section drawing.

Site Plan Example

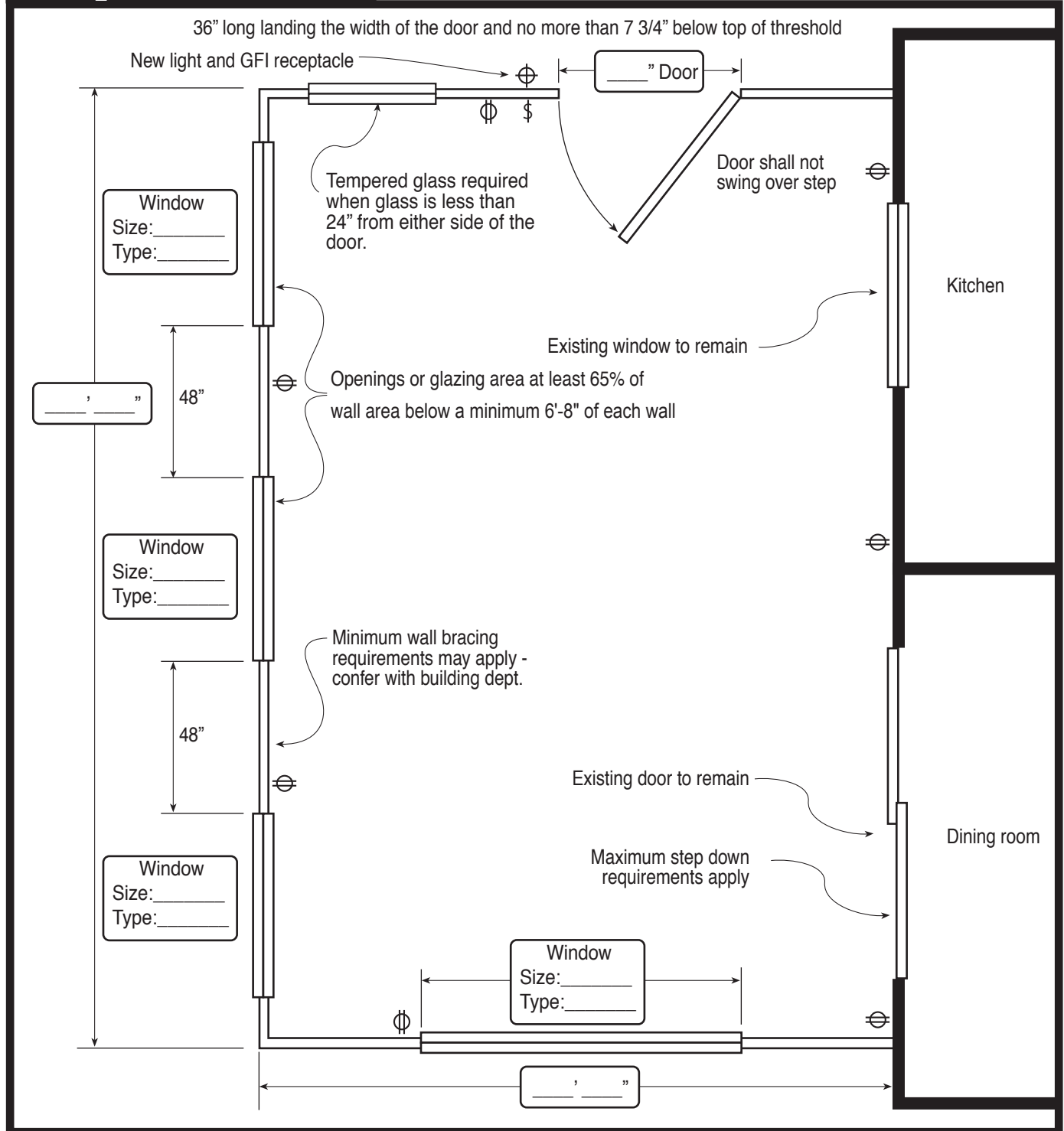


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Sample Floor Plan

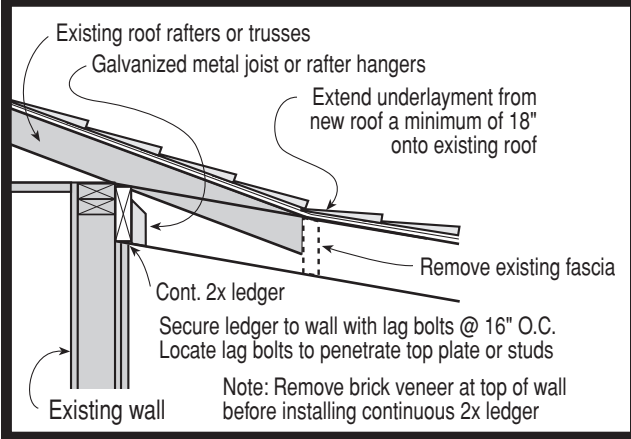


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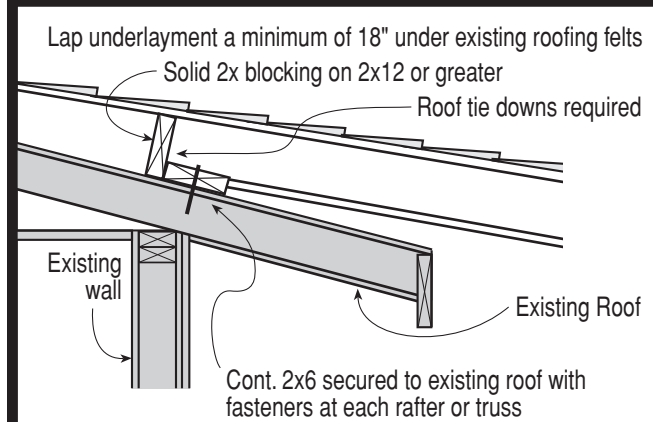
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Detail A



Alternate Detail A



Existing Roof covering _____
(example: Class A 3 tab shingles)

12 pitch _____

Shed Roof

2x _____ rafters spaced _____" O.C.
(example: 2 x 8 rafters spaced 24" O.C.)

Sheathing _____
(example: 1/2" exterior plywood)

Gutters and downspouts

Existing building

✓ Check one
(Clarify Existing Roof Attachment)
☐ Detail A
☐ Alternate A
☐ Other
 (attach detail drawing)

Beam to post connection
(example: galvanized metal connection)

Beam splices to occur over posts with 1 1/2" bearing.

Maximum rise 7 3/4" at top of door threshold

Slope

Concrete Slab

() "x" beam
(example: (2) 2"x10")

Siding _____
(example: T-111)

2"x" studs @ _____" O.C.
(example: 2"x6" @ 24" O.C.)

Ceiling Height _____
(example: 7')

Span _____

"x" posts
(example: 4"x4")
spaced _____ apart
(example: 6')

Identify Existing Foundation Components
☐ Footings/ frost wall
☐ Slab with piers only at posts
☐ Frost protected foundation
☐ _____
☐ _____

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