

Residential Wall Section

(Frost Footings with a Slab on Grade)

Kandiyohi County Building Department (2015 MRC)

Manufactured trusses (provide a minimum 35 psf snow load).

Asphalt shingles, 15 pound felt, roof sheathing with spacer clip. Re-roofing applications may require removal of the existing roof coverings. See the 2015 Minnesota Residential Code section R907.3 for specific requirements.

Ice and water barrier is required 24 inches beyond the exterior wall line beginning at the eaves.

Provide attic ventilation at a rate of 1 ft² per 300 ft² equally split at the ridge and eave.

Metal drip edge and fascia

Continuous vented soffit material.

Headers must be sized to carry all applied loads. Rough openings 6 feet or larger require a minimum 3 inch end bearing.

Pan flashing is required on all windows and exterior doors.

A wind wash barrier is required on all walls and the gable ends. It must extend to the underside of the rafter top cord.

7/16 inch wall sheathing minimum.

Provide window fall protection on all windows that exceed 72 inches above finished grade and are less than 36 inches above the floor surface per Sections R312.2.

Treated bottom plate.

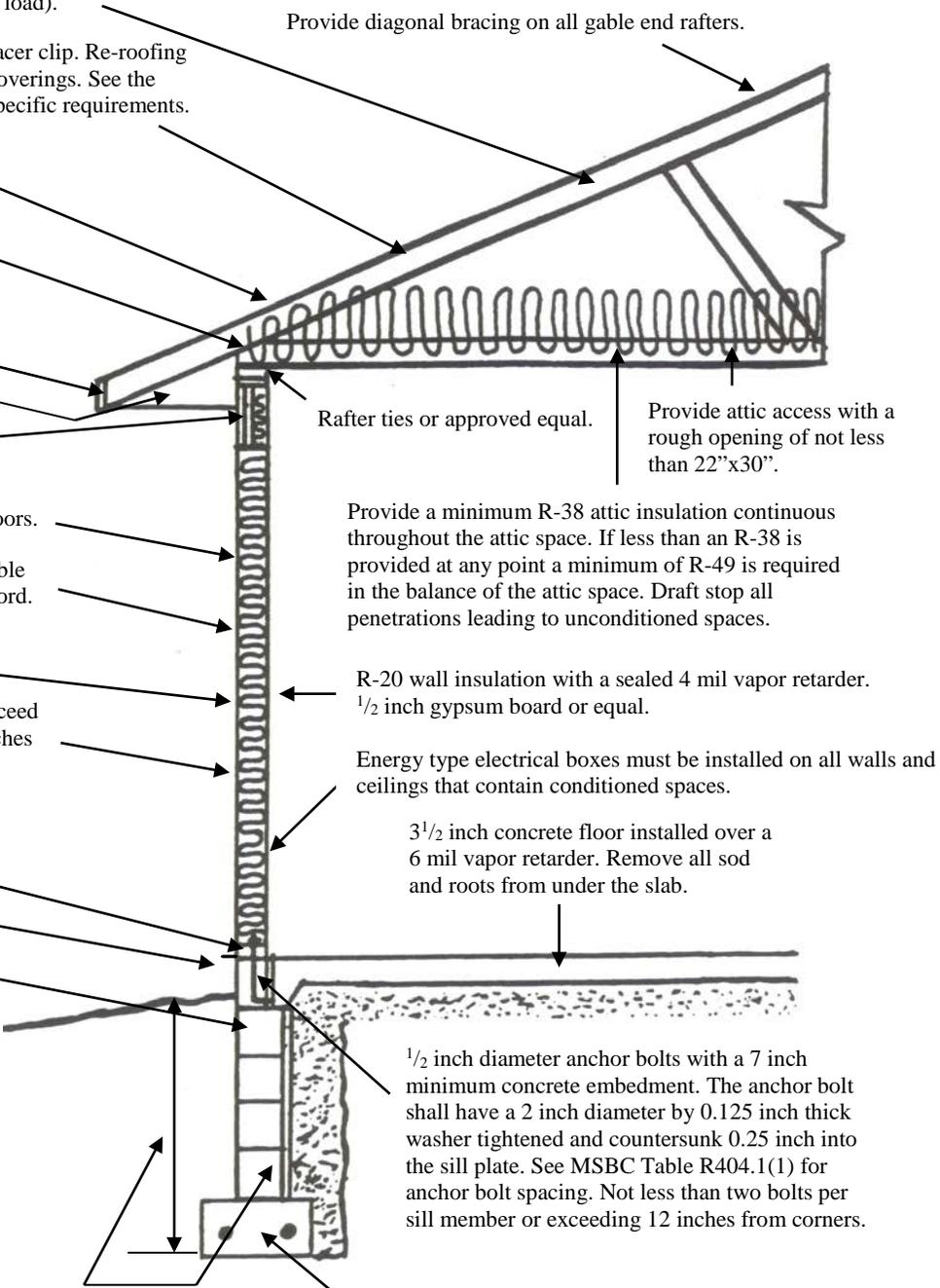
A 6 inch wood to earth separation is required.

Reduction in block width requires that the course below the reduction be of solid masonry or be slugged solid.

In all new single family dwellings a passive radon mitigation system is required. Install an electrical outlet in the anticipated location of the vent pipe in the attic space. The power source and fan cannot be installed within the conditioned space. Provide a minimum 4 inch layer of rock that passes through a 2 inch sieve and is retained by a 1/4 inch sieve. Vent pipes through unconditioned space require R-4 insulation minimum. (See the county radon handout for additional requirements)

Provide a minimum R-10 sub-grade insulation. The insulation may be applied on either the interior or exterior side of the foundation wall. The insulation must extend from the top of the foundation wall to the top of the footing or a minimum of 42 inches below finished grade. Provide a six mil polyethylene slip sheet over the entire exterior surface of all foundation insulation that does not permit bulk water drainage. Rigid protect the foam insulation on the exterior side from the top of the wall to 6 inches below grade minimum and properly flash.

Provide diagonal bracing on all gable end rafters.



Rafter ties or approved equal.

Provide attic access with a rough opening of not less than 22"x30".

Provide a minimum R-38 attic insulation continuous throughout the attic space. If less than an R-38 is provided at any point a minimum of R-49 is required in the balance of the attic space. Draft stop all penetrations leading to unconditioned spaces.

R-20 wall insulation with a sealed 4 mil vapor retarder. 1/2 inch gypsum board or equal.

Energy type electrical boxes must be installed on all walls and ceilings that contain conditioned spaces.

3 1/2 inch concrete floor installed over a 6 mil vapor retarder. Remove all sod and roots from under the slab.

1/2 inch diameter anchor bolts with a 7 inch minimum concrete embedment. The anchor bolt shall have a 2 inch diameter by 0.125 inch thick washer tightened and countersunk 0.25 inch into the sill plate. See MSBC Table R404.1(1) for anchor bolt spacing. Not less than two bolts per sill member or exceeding 12 inches from corners.

Footings must be sized to carry all applied loads. The footing concrete mix must be a minimum 5000 psi. Install two #4 rebar continuous with a minimum 20 inch lap and laps properly tied. The rebar must be bent through all corners. Support the rebar 3 inches above the ground. Provide adequate frost protection, footings must be placed a minimum of 42" below finished grade.

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