

**ROOF FRAMING PLAN**

**ROOF FRAMING NOTES**

RAFTERS SHALL BE FRAMED WITH A PLUMB CUT END AND PROPERLY NAILED TO A RIDGE BOARD. THE RIDGE BOARD SHALL BE AT LEAST 2-INCH NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A VALLEY OR HIP MEMBER NOT LESS THAN 2-INCH NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A BRACE TO A BEARING PARTITION OR BE DESIGNED TO CARRY AND DISTRIBUTE THE SPECIFIC LOAD AT THAT POINT WHERE THE ROOF PITCH IS LESS THAN 3/12 (25-PERCENT SLOPE). STRUCTURAL MEMBERS THAT SUPPORT RAFTERS AND CEILING JOISTS, SUCH AS RIDGE BEAMS, HIPS AND VALLEYS, SHALL BE DESIGNED AS BEAMS. (IRC SEC. R802.3)

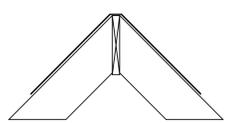
WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR A MINIMUM OF A 1-INCH SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AT THE LOCATION OF THE VENT. (IRC SEC. R806.3) IN BUILDING WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION AN ATTIC ACCESS OPENING SHALL BE PROVIDED TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE VERTICAL HEIGHT OF 30 INCHES OR GREATER THE ROUGH FRAMED OPENING SHALL NOT BE LESS THAN 22 INCHES BY 30 INCHES AND SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. A 30-INCH MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS OPENING. (I RC SEC. R807.1)

CEILING JOISTS AND RAFTERS SHALL BE NAILED TO EACH OTHER IN ACCORDANCE WITH IRC TABLES R602.3 (1) AND U802.5.1(9) AND THE ASSEMBLY SHALL BE NAILED TO THE TOP WALL PLATE IN ACCORDANCE WITH TABLE R602.3(1). CEILING JOISTS SHALL BE CONTINUOUS ACROSS THE BUILDING WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE CEILING JOISTS ARE NOT PARALLEL TO RAFTERS, SUBFLOORING OR METAL STRAPS ATTACHED TO THE ENDS OF THE RAFTERS SHALL BE INSTALLED IN A MANNER TO PROVIDE A CONTINUOUS TIE ACROSS THE BUILDING OR RAFTERS SHALL BE TIED TO 1-INCH BY 4-INCH MINIMUM-SIZE CROSS-TIES. THE CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE R602.3 (1) OR CONNECTIONS OF EQUIVALENT CAPACITIES SHALL BE PROVIDED. WHERE CEILING JOISTS OR RAFTER TIES ARE NOT PROVIDED AT THE TOP PLATE THE RIDGE FORMED BY THESE RAFTERS SHALL ALSO BE SUPPORTED BY A GIRDER DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. RAFTER TIES SHALL NOT BE SPACED MORE THAN 4 FEET ON CENTER. (IRC SEC. R803.2.3.1)

APPLICATION OF ROOF COVERING MATERIALS SHALL BE IN ACCORDANCE WITH IRC CHAPTER 9.

ENCLOSED ATTIC SPACES AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION RESISTANT WIRE MESH WITH 1/4 INCH MINIMUM TO 3/4 INCH MAXIMUM OPENINGS. (IRCSEC. R806.1)

THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1 TO 150 OF THE AREA OF THE SPACE TO BE VENTILATED EXCEPT THAT THE TOTAL AREA IS PERMITTED TO BE REDUCED TO 1 TO 300, PROVIDED THAT AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATION AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. AS AN ALTERNATIVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1 TO 300 WHEN A VAPOR BARRIER HAVING A TRANSMISSION RATE NOT EXCEEDING 1 PERM IS INSTALLED ON THE WARM SIDE OF THE CEILING. (IRC SEC. R806.2)

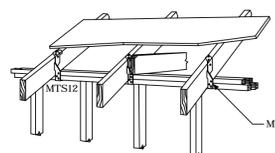


RAFTER TO RAFTER STRAP

3:12 - 4:12 - MSTA30  
5:12 - 6:12 - LSTA18  
7:12 - 10:12 - LSTA15

**1/S-2**

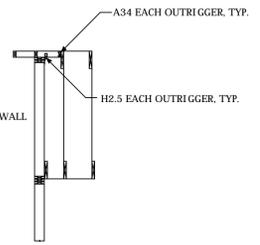
SCALE: 1/4" = 1'-0"



RAFTER TO TOP PLATE

**2/S-2**

SCALE: 1/4" = 1'-0"



GABLE OUTRIGGER ATTACHED PER SPACING

**3/S-2**

SCALE: 1/4" = 1'-0"

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SCALE : AS NOTED

MODIFIED: 11/4/20

SHEET 9 OF 10