

SETUP MANUAL AND PROCEDURES

WISCONSIN HOMES, INC.

425 West McMillan St.

Marshfield, WI 54449

(715)384-2161

wisconsinhomesinc.com

REV: 5-23-17

All homes built by **WISCONSIN HOMES, INC.**, are manufactured with materials recognized by the building industry as good quality materials. These homes are built to give years of service when used according to instructions, so accordingly, **WISCONSIN HOMES, INC.**, makes the following warranties:

WARRANTY

1. This Company Warrants each new House manufactured by it to be free from defective workmanship on the part of it's employees under normal use and service.
2. The Company's obligation under this warranty is limited to correcting any such defective workmanship within one (1) year after delivery of the House to the original purchaser. The Company reserves the sole right to make any exceptions to the extent of it's stated obligations.
3. This Warranty is given expressly in lieu of all other Warranties expressed or implied and of all other obligations or liabilities on the Company's part, and the Company neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of it's houses.
4. This Warranty shall not apply to any House which shall have been repaired or altered outside of the Company's factory in the way so as in the Company's judgement to effect performance, it's stability or reliability, nor which has been subject to misuse, neglect or accident.
5. **WISCONSIN HOMES, INC.**, installs component parts, such as Heating Systems, Gas Supply Systems, etc., that must be completed, checked and tested out by qualified mechanics at the building site. Accordingly **WISCONSIN HOMES, INC.**, does not warranty these systems, the component parts of which are usually manufactured by nationally famous manufacturers, and which carry separate Warranties by their particular manufacturers. Accordingly, **WISCONSIN HOMES, INC.**, makes no warranty whatever in respect to these component parts.
6. There are no representations, warranties or conditions, expressed or implied, statutory or otherwise, except those herein contained, and no agreement, collateral hereto shall be binding upon either party unless in writing hereon or attached hereto, signed by the purchaser and accepted by **WISCONSIN HOMES, INC.**, at it's head office.
7. If reasonably complainable defective workmanship is found within the one (1) year period following delivery of the house to the original purchaser thereof, notice shall be given in writing to the Dealer.
8. The agreement of the manufacturer to correct any defective workmanship discovered within the time specified herein shall be the sole remedy of the purchaser, and shall not constitute a cause for cancellation of the contract of purchase and sale.
9. **WISCONSIN HOMES, INC.**, shall not warrant any material or labor performed by the Erectors of the home on the site or damage due to the insufficient foundation or blocking-as these items mentioned must be Warranted by the Person or Persons, performing this Service.
10. The Manufacturer's Warranty is given solely to the original user and only to the extent expressed herein.

CONDENSATION AND EXCESS MOISTURE

Condensation is moisture in the air turning into water and is a condition made worse or better entirely by the actions of the people living within the home. This condition is regulated by the amount of moisture allowed to enter the air and the amount of moisture-laden air allowed to escape from the home. (Or the amount of fresh air allowed to enter the home, conversely.) This must be done to have a dry home even at the expense of heat loss. The area under the home, (either basement or crawl space) must be kept dry to prevent moisture from damaging the home. Accordingly, **WISCONSIN HOMES, INC.**, and the dealer make no warranty whatever against condensation or damage as a result of condensation or excessive moisture.

DEFECTIVE FLOOR COVERING AND DRYWALL CRACKS

In event of defects in Floor Covering, repairs will be made to the defective area only. Defects will be repaired, according to normal patching procedure. No warranty against small or hair line cracks in plaster drywall. These cracks are a natural occurrence and cannot be prevented.

WISCONSIN HOMES, INC.
Marshfield, Wisconsin

(PLEASE FILL OUT AND RETURN THE FOLLOWING WARRANTY CARD)

NAME: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

HOME PHONE: () _____ WORK PHONE: () _____

CELL PHONE: () _____ E-MAIL: _____

PURCHASED FROM: (DEALER'S NAME): _____

(DEALER'S ADDRESS): _____

DATE OF PURCHASE: _____

SERIAL NO.: _____ LENGTH: _____ WIDTH: _____

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I. General setup/procedure notes and information

Your new home or commercial building has been designed and engineered to be completely joined together as one unit with a minimum amount of time and effort. Always employ qualified personnel, contractors, and set crews to complete all work. There are a wide variety of custom homes and commercial buildings Wisconsin Homes, Inc. constructs, so careful planning by on-site designers/crews/builder-dealers is required. This setup procedure manual should be shared with all parties involved in the construction process, including the builder/dealer, on-site contractors, and setup crews. Two informational packets are shipped with each home/building project. One packet contains information for the dealer/builder for the setup and construction and the other contains product and warranty information for the home owner.

Throughout the project design process, prints and documents have been exchanged between Wisconsin Homes, Inc. and the builder/dealer. Those prints and documents contain information about the floor plan, foundation, elevations, sections, energy compliance, stairways, and other information specific to your project. Please refer to those items and this manual prior to on-site construction and setup. Any questions regarding construction or setup of your new home or building should be addressed with Wisconsin Homes, Inc. prior to on-site construction.

All homes and buildings constructed by Wisconsin Homes, Inc. have been approved and inspected by a third party inspection agency or appropriate building official for the intended area the unit will be located and for the intended use, as indicated during the design process. Wisconsin Homes, Inc. also maintains an in-house quality control program to monitor the construction process, ensuring a superior built, code compliant unit.

Wisconsin Homes, Inc. supplies material only specific to that project, including materials to finish the unit. Please take note of all materials shipped with the unit, since they are determined based on the most efficient use of the material. If these materials are not used efficiently or correctly, shortages on-site can occur. These materials include gypsum, osb, texture paint, vapor barrier paint, roof caps, tie-in material for “cub” sections, etc. Wisconsin Homes, Inc. does not typically supply material for on-site structures such as decks, garages, and porches. Furthermore, Wisconsin Homes, Inc. does not design or engineer as standard into homes or buildings any loading considerations for on-site structures. Any on-site additions to your new home or building should be designed,

engineered, and built by those only qualified to do so. Also, protect any installed finished flooring material from damage by the on-site construction.

Although there are different methods utilized for setup and finish, Wisconsin Homes, Inc. recommends all homes and buildings be setup and finished according to this manual. Any deviations from this are acceptable, so long as those methods comply with all applicable building codes and demonstrate sound craftsmanship.

II. GENERAL SETUP PROCEDURES FOR ALL HOMES AND BUILDINGS

1. FOUNDATION: BASEMENT OR CRAWLSPACE

A suitable, code compliant foundation must be provided and properly constructed to support the section(s). Please refer to the project foundation plan and project section drawing(s) provided by Wisconsin Homes, Inc. A treated sill plate and sill seal (supplied on-site by others) needs to be installed on top of a concrete foundation perimeter where the sections rest on the walls. The foundation design should take into account any foam on the units and/or foundation, gaps between sections after they are set, and other items that would affect the overall size of the finished unit. On-site wood knee walls and wood foundations are sometimes part of the home or building and should be designed and constructed to applicable codes. The foundation walls should be properly backfilled and/or supported prior to setting the sections on them. Install hardwood shims between sections where the required basement beam bolts are located per the project foundation plan.

2. SETTING THE SECTIONS

The sections may be placed upon the foundation by the roll-on method or set with a crane and cable system (dwg 42-SD). In either method, an experienced set crew should perform

the work. Special care must be taken using the crane method to avoid inward pressure from the crane cables against the sections. Any weather conditions must be taken into account when setting the sections as well. Always take safety precautions when performing any work. More detailed information on setting homes and buildings is available from experienced setup companies.

- A. Remove any material from the sections that will be inconvenient to remove later or contribute to the overall weight, if weight is an issue.
- B. Remove bolts and lag screws from the undercarriage.
- C. Waterproofing material, wood strips and their fasteners, and plastic enclosures around mating walls must be removed prior to the set.
- D. Verify that the insulation seal (dwg 43-SD) is in place.
- E. Set the sections on the foundation as tight as possible to each other.
- F. An approved support post/column, pier, or support wall/beam must be in place and level prior to the set. The supports need to take into account any gaps between sections.
- G. After the sections are set, cut the metal bands out of the archways and doorways.
- H. Fasten the units to the foundation per required code(s).
- I. Remove temporary support and shipping walls, beams, joists or posts. To prevent any structural failures, confirm that the removal will not affect the structural integrity of the building or create any safety problems.

3. EXTERIOR FINISH

Your new home or building comes to you as complete as possible from the factory. There are items that need to be finished after the sections are set or during the set. In some cases, windows, doors, fireplace chases, or headers may need to be installed after the sections are set or during the set. Please plan accordingly for these items during the set. Take into account any plumbing, electrical, or mechanical considerations that may affect the exterior finish work or the timing of the work. It is always very important to confirm the sections are insulated, sealed, and the vapor retarder is maintained where the sections fit together. Also, all sections must maintain proper attic and roof ventilation. If the attic/roof is not ventilated properly, ice-damming can occur and lead to roof leaks. Improper ventilation may also allow frost to build up on the underside of roof sheathing and can cause water damage and mold inside of your home or building. Take appropriate steps to avoid these issues.

- A. Attach roof caps (if applicable), roof deck, and other roofing material.

- B. In areas where a “cub” section or other similar section adjoins another section and there is a dormer-type tie-in, remove any plastic shipping material and part of the roof sheathing under the tie-in to allow proper attic/roof ventilation.**
- C. Add overhang tails (if applicable), along with fascia boards, fascia metal, roof edge, soffit, ridge vent, and any other required materials such as lights or outlets.**
- D. Fill crane cable holes and other holes (if applicable) with insulation and seal from air infiltration.**
- E. Seal all gaps and annular penetrations in the building system. Refer to 431-SD & 431-SD(2). Spray foam insulation has been provided.**
- F. Insulate between units on the exterior gable ends and inside corners where a “cub” unit meets another section. Insulate with non-expandable foam insulation (supplied) or with minimum 6 mil poly and fiberglass insulation (supplied by others) to maintain the vapor retarder and insulation between units. Install so this penetrates the units by the wall depth and 6”. If using poly and fiberglass, insert the poly and fiberglass so the fiberglass is encapsulated within the poly.**
- G. Overlap exterior sheathing, house wrap, and foam (if required) over sections and repair any damaged areas. Exterior wall sheathing is held back where a flush gable end occurs. Fasten the gable end walls together (SD-449). The exterior sheathing needs to be bridged over the units, then the house wrap needs to be overlapped and taped. Overlap house wrap and tape where inside corners occur.**
- H. When requested, porch trusses or other special items are supplied by Wisconsin Homes, Inc. Please refer to project drawings supplied by Wisconsin Homes, Inc. to the builder/dealer for the load/weights/uplift and/or attachment. Construction of on-site structures are the responsibility of those on-site and not by Wisconsin Homes, Inc.**
- I. Some areas of the roof may require step flashing. Please install per the applicable building code. Also, verify all roof penetrations are sealed to prevent any leaks.**
- J. Install the finished roof per the manufacture’s installation instructions, including valleys and other similar areas.**
- K. It is the responsibility of the on-site contractor(s) to complete all necessary weatherproofing.**
- L. Take steps to protect all wood products from the exterior elements. Railing, beams, decking, etc. should be wrapped or stained with approved wrap or stain.**
- M. Please refer to the manufacturer’s installation instructions for proper installation of roofing materials and other items that penetrate and/or affect the roof.**

4. INTERIOR FINISH

Due to the wide variety of custom homes and commercial buildings, a great deal of interior finish work may be required. Please take into account any plumbing, electrical, or

mechanical considerations that may affect the interior finish work or the timing of the work.

- A. Install floor decking across the sections at the marriage line to finish the floor deck. Ensure the floor is level. Glue and screw the “cut-back” decking area down to the floor system.
- B. Cut the metal banding out between sections in doorways and archways.
- C. Some archways will need columns installed on-site. See your particular floor plan for location and detail 449-SD for fastening details. Fasten archway and doorways on the marriage walls (detail 41-SD). If any gypsum needs to be installed on archway walls or other walls, install and finish the gypsum per the applicable building code.
- D. Finish archways with required material and complete the doorway installations across the marriage walls. Single layer 5/8” ceiling gypsum that is installed on-site should be fastened with #6 x 1 5/8” screws minimum 8” o/c and glued with adhesive or per applicable building code.
- E. Fasten the truss marriage line lvl beams (when applicable) together whether in the attic or exposed inside the house. Screw lvl beams together with 5” screws, using two screws every 24”. Shim the beams tight with hardwood shims prior to fastening the beams together.
- F. Finish fireplaces, walls, soffits, cabinets, etc. where required.
- G. Finished flooring may need to be installed. Wisconsin Homes, Inc. does not install flooring as standard.

5. ELECTRICAL CONNECTIONS

All homes and buildings are accompanied by an electrical print (located in the electrical panel), which shows junction crossovers and all circuits. Typically, electrical crossovers are in an attic or floor access area or under the floor and use amp connectors. Please review the electrical plan prior to the set.

- A. Cross electrical wires over/through sections where required. Some wires may need to cross over sections during the set. Please plan ahead if this is the case.
- B. Complete the electrical crossovers and connections between sections. Connections are accomplished with numbered junction clips or junction boxes.
- C. Connect and install any lights, outlets, or other electrical items that were not installed at the factory.

- D. Complete normal electrical entrance connections.**
- E. Verify electrical connections have been properly connected.**
- F. In some cases Wisconsin Homes, Inc. has provided electrical circuits or wiring for garages, porches, or similar structures or for on-site lights or outlets. Those connections should be completed and tested by a qualified person.**
- G. For your safety, fireplaces and chimneys should be grounded to an adequate ground. Please refer to the manufacture's installation instructions for details.**
- H. Ship loose fireplaces will typically need to be wired. If a switch or other electrical is ordered for a ship loose fireplace, please take care to plan the wiring around the installation of the fireplace.**
- I. Whirlpool pumps should be grounded to an adequate ground.**
- J. In some instances, receptacles and switch boxes need to be secured on-site (such as on a marriage wall).**
- K. Connect any communication systems per the electrical diagram.**

6. PLUMBING CONNECTIONS

The Builder/Dealer must make arrangements for the final plumbing connections and testing of the completed system by a qualified person. Wisconsin Homes, Inc. extends plumbing waste pipes and water supply pipes through the floor into the foundation area for on-site connections. Upon request, Wisconsin Homes, Inc. will connect waterlines (as much as possible) in the floor system, reducing the amount of on-site work required. Most plumbing fixture traps will need to be connected on-site. Wisconsin Homes, Inc. also provides a vent for future plumbing fixtures in full basements. Please refer to the project foundation plan for the location. Water heaters are typically supplied and installed on-site by others.

- A. Plumbing vent pipes may need to be connected and/or extended through the roof after the sections are set or during the set.**
- B. Connect the plumbing in the foundation area to the plumbing provided by Wisconsin Homes, Inc.**
- C. Adjust pressure balancing valves to a maximum water temperature of 110° F per faucet or per manufacturer's installation instructions.**
- D. In some cases, plumbing fixtures/appliances may require a sealed trap or an approved liquid to be in the trap if they are infrequently used. Consult the manufacturer's installation instructions.**

7. HEATING SYSTEM

Wisconsin Homes, Inc. installs some or most of a heating system when requested. With the heating system, an air to air exchanger may be required to maintain proper air flow and exchanges throughout the home or building. Even if Wisconsin Homes Inc. does not install all or part the heating system, it is very important that Wisconsin Homes Inc. be notified during the design stage the type of heating system being installed on-site. The heating system type can affect the energy compliance and insulation requirements of your home or building. Air to air exchangers, when requested, are shipped loose and installed on-site. Wisconsin Homes, Inc. will install ductwork for air to air exchangers when possible or requested. Furnaces, boilers, and other heating appliances are supplied and installed on-site by others.

- A. If a forced air heating system is requested, Wisconsin Homes, Inc. will install supply air boots and provide frame-out areas in walls for return airs. The connections will need to be made in the foundation area by a qualified heating contractor.
- B. Upon request, Wisconsin Homes, Inc. will install hydronic baseboard heat with the supply and return lines connected in the floor as much as possible. A plumbing schematic will be provided for those on-site to show where certain connections need to take place. An air to air exchanger will be required with this heating system (dwg 35-SD).
- C. Electric baseboard heat can be installed by Wisconsin Homes, Inc. upon request. An air to air exchanger (dwg 35-SD) will be required for electric heat and the amount of insulation required may be very different than with other heating systems.

8. SHIP LOOSE MATERIAL

A ship loose material loading list is provided with each home or building and is generally located in the kitchen sink base cabinet. The materials are designed to be used in the most efficient manner, so careful material planning by those on-site is important.

9. MISCELLANEOUS

Other important items and considerations in completing your new home or building include:

- A. Interior textured drywall surfaces should be painted shortly after receiving your new home or building.

- B. Exterior primed window and door trim and any other unfinished wood or siding should be stained or painted shortly after receiving your new home or building.**
- C. When making any cuts or holes in non-adhesive vinyl flooring, use adhesive or staples to secure the vinyl flooring down.**
- D. Verify floor decking transitions between sections are level and free of gaps before installing finished flooring.**
- E. Ceramic tile normally requires a plywood or cement board underlayment.**
- F. If you have a basement, a stairway will need to be installed on-site. Wisconsin Homes, Inc. will supply a stairway for the stairwell opening when requested. This should be installed per the required codes or the installation instructions. In some cases, installation instructions are provided to the dealer/builder by Wisconsin Homes, Inc.**
- G. Any framing or wood construction materials installed on-site should follow fastening procedures per applicable building codes unless specific installation instructions are provided by Wisconsin Homes, Inc.**
- H. Foundation walls normally require insulation. Please refer to the project energy compliance report (supplied by Wisconsin Homes, Inc.) and/or local code requirements for insulation requirements.**
- I. Stairway railings and handrails are normally installed on-site. In some cases, porch railings, and in most cases, porch stairways/ramps will need to be finished on-site. It is very helpful to have an experienced carpenter to install these items.**
- J. Box sill/rim joist areas in the foundation need insulation and a vapor retarder installed on-site where required. Upon request, Wisconsin Homes, Inc. will install those items at the factory or will supply material for on-site installation.**
- K. An attached garage needs fire separation between the garage and home or building installed on-site by others. This is normally achieved with 5/8" gypsum. Please refer to your applicable building code for details.**
- L. When installing chimneys for appliances or fireplaces, take care to vent those items to the outside of the home or building and install per the manufacturer's installation instructions. Always check the clearances on chimneys to verify the proper clearances are maintained.**
- M. Prior to operating any fireplace, read and understand the manufacturer's installation and operating instruction for the fireplace units. Gas lines should be installed and tested only by a qualified person.**
- N. Combustion air ducts for fireplaces and appliances may need to be installed on-site. Dryer vents should also be vented to the outside in accordance with the installation instructions. Wisconsin Homes, Inc. does not typically provide this ductwork.**
- O. Insulate and maintain the vapor retarder around skylights, exhaust/intake ductwork, and pipes that are exposed in an attic or crawlspace.**

- P. Building codes typically require fire stopping around plumbing and electrical pipes at penetration points from the basement or crawlspace to the areas above. Please do this in accordance with the applicable building codes.**
- Q. Whirlpool tubs need to be filled with water prior to turning on the pump. Refer to the whirlpool tub instructions for operating procedures.**
- R. All on-site work is subject to tests and inspections by the local building authority.**

III. MULTI-STORY SETUP

Setup procedures will be the same for multi-stories as they are for the general setup, except for additional items which will be outlined. Please refer to additional setup information supplied with each multi-story home.

1. FOUNDATION: BASEMENT OR CRAWLSPACE

All items will be the same as outlined in the general setup.

2. SETTING THE SECTIONS

Additional Items:

Plan accordingly for the electrical crossovers and plumbing connections prior to setting the sections. Normally the electrical crossovers need to cross sections on the first floor before the upper sections can be set. Also, check for special items or considerations that may need to take place during the set. An example would be installing a window header through two sections before the top sections can be set. Those special instructions will be sent to the builder/dealer from Wisconsin Homes, Inc.

3. EXTERIOR FINISH

- A. Connect the upper and lower sections together on the exterior with wall sheathing where the rim joists meet as shown on drawing 300-SD. Overlap the house wrap from second floor to first floor and tape seams.**

4. INTERIOR FINISH

Additional Items:

- A. Finish stairway and stairway walls from first to second floor. Install wall cap or railing if required.**
- B. Remove shipping beams, joists, and posts in open areas. Verify and maintain the structural integrity before removing these items.**
- C. Screw 1st floor ceiling rims (dwg 41-SD) and exposed roof beams (dwg 300-SD) where sections adjoin each other with #10x5" screws 12" o/c (ship loose). Shim between beams and rims before fastening together.**
- D. Install the vertical wind column on open end Loft models (dwg 92-SD A&B) and also refer to "Wind Load Design for Open End Lofts" located in this manual. Some multi-story units may have similar wind or lateral columns. See project details or "Wind load Design for Open End Lofts" for those particular units.**
- E. There will be straps tacked onto the sidewalls in the open area that will need to be installed to complete the connection from the first floor walls to the second level floor rims. The straps will be tacked in the required locations. Wisconsin Homes, Inc. will provide a detail for the locations of these brackets.**
- F. Insulate exposed rim area in open areas and maintain the vapor retarder before finishing. In open areas such as on a Loft model, use shipping material lumber for backing materials for the gypsum or finished wood wall.**
- G. After the plumbing from first to second floor is completed and tested, finish the ceiling, floor area, or rim area at the connection points.**

5. ELECTRICAL CONNECTIONS

Additional Items:

- A. During and/or after the lower sections are set, lay the electrical wires over from one section to another without the wires getting pinched when the upper sections are set. Connect junctions per the electrical print.**
- B. Electrical connections normally take place in a floor access in the upper level or in a ceiling access in the first floor.**

6. PLUMBING CONNECTIONS

Additional Items:

- A. Complete all plumbing connections at the plumbing access locations per the supplied plumbing drawing. Test the plumbing system before closing the accesses.**
- B. Fire-stop all plumbing penetrations from first to second floor.**

7. HEATING SYSTEM

Additional Items:

- A. Connect ducts/boots from the lower level to the ducts/boots from the upper level by means of a transition elbow and a short piece of duct work (2 1/4"x12"x12"). Standard ductwork is 2 1/4"x12". The connection locations are typically in a floor access on the second floor or in a ceiling access on the first floor. Refer to the individually supplied detail.**

8. SHIP LOOSE MATERIAL

Additional Items:

- A. Plumbing parts for connections from first to second floor will be located with the plumbing drawings in the unit.**
- B. Open end lofts will typically have 2-1 3/4"x11 1/4" lvl's shipped loose for the wind column. See drawings 92-SD A&B for installation and "Wind Load Design for Open End Lofts" located in this manual.**

MISCELLANEOUS:

Additional Items:

Wind Load Design for Open End Lofts

Due to wind load forces on the open end of lofts, a structural column needs to be installed on-site. Wisconsin Homes, Inc. will ship loose material for the column (typically 2-1 3/4"x11 1/4"x20' lvl for 96 1/2" tall ceilings).

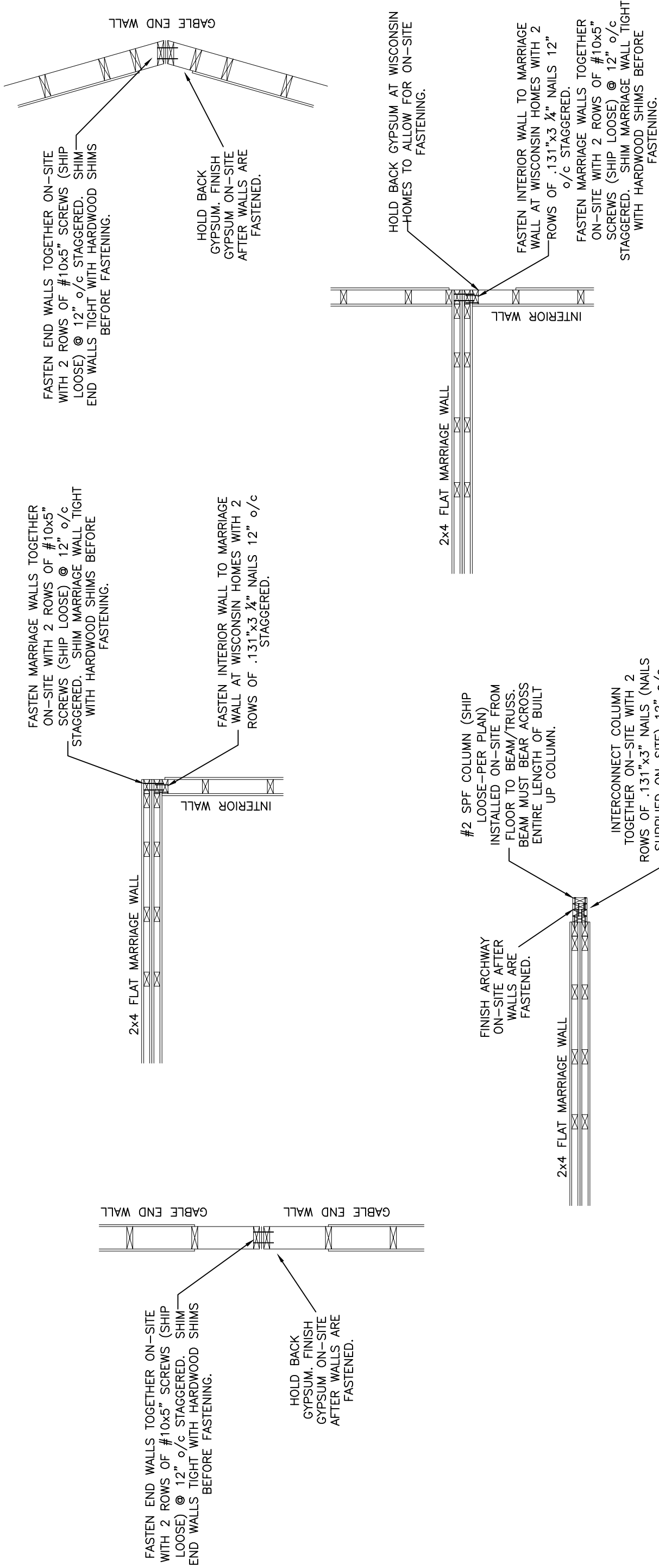
GUIDELINES FOR INSTALLING THE WIND LOAD COLUMN:

- 1. Wisconsin Homes, Inc. will provide a space between sections on the open end to allow the vertical column to be installed on-site. The exterior wall sheathing will be held back to allow room to fasten the lvl column. Wisconsin Homes, Inc. will install a temporary wall approximately 2' from the gable wall on the open end for roof support.**
- 2. After all sections are set, the ceiling and floor rims and temporary shipping material need to be removed to allow room for the lvl column to be installed. Verify the removal will not cause any structural defects of the home or building. All metal**

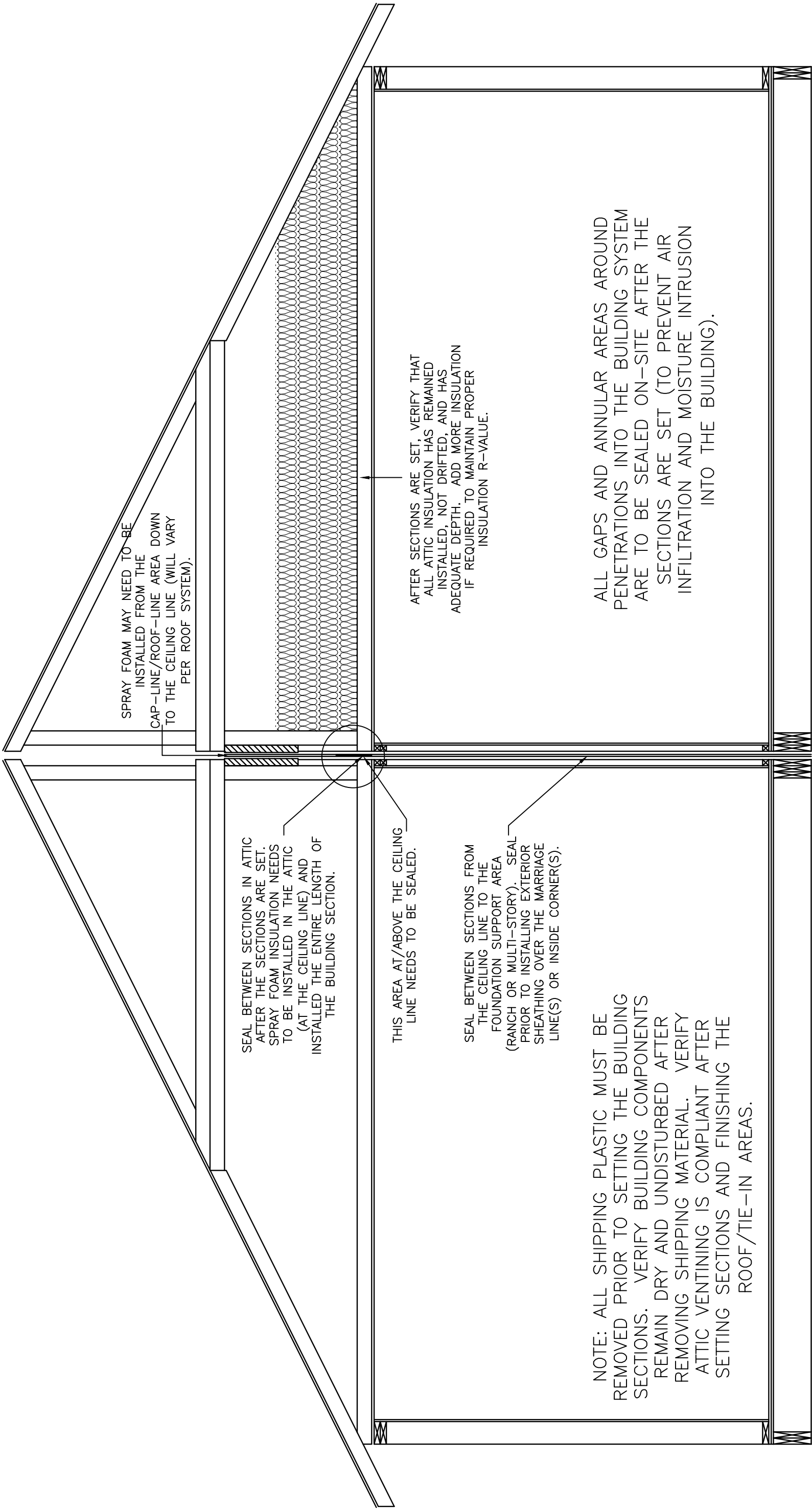
- shipping banding must be kept out of the areas to be cut out on-site (done at the factory).
3. The column must be installed continuously from floor to roof beam with a tight fit. Shim between lvl's as necessary and fasten in accordance with drawings 92-SD A & B.
 4. After the column is installed, the exterior wall sheathing needs to be installed. On models with a square end, overlap the wall sheathing from side to side and top to bottom where the sections meet. On prow end models, overlap the wall sheathing from the top sections to the bottom sections.
 5. Refer to drawings 92-SD A & B for further details.
 6. Straps or other fasteners will be supplied, along with a detail of the installation locations, for homes with open areas. These will typically be installed on the sidewall areas where the first floor sidewall meet the second level floor rims. Finish installing the brackets/clips/straps per details 92-SD A & B and other supplied details.

IV. DETAILS

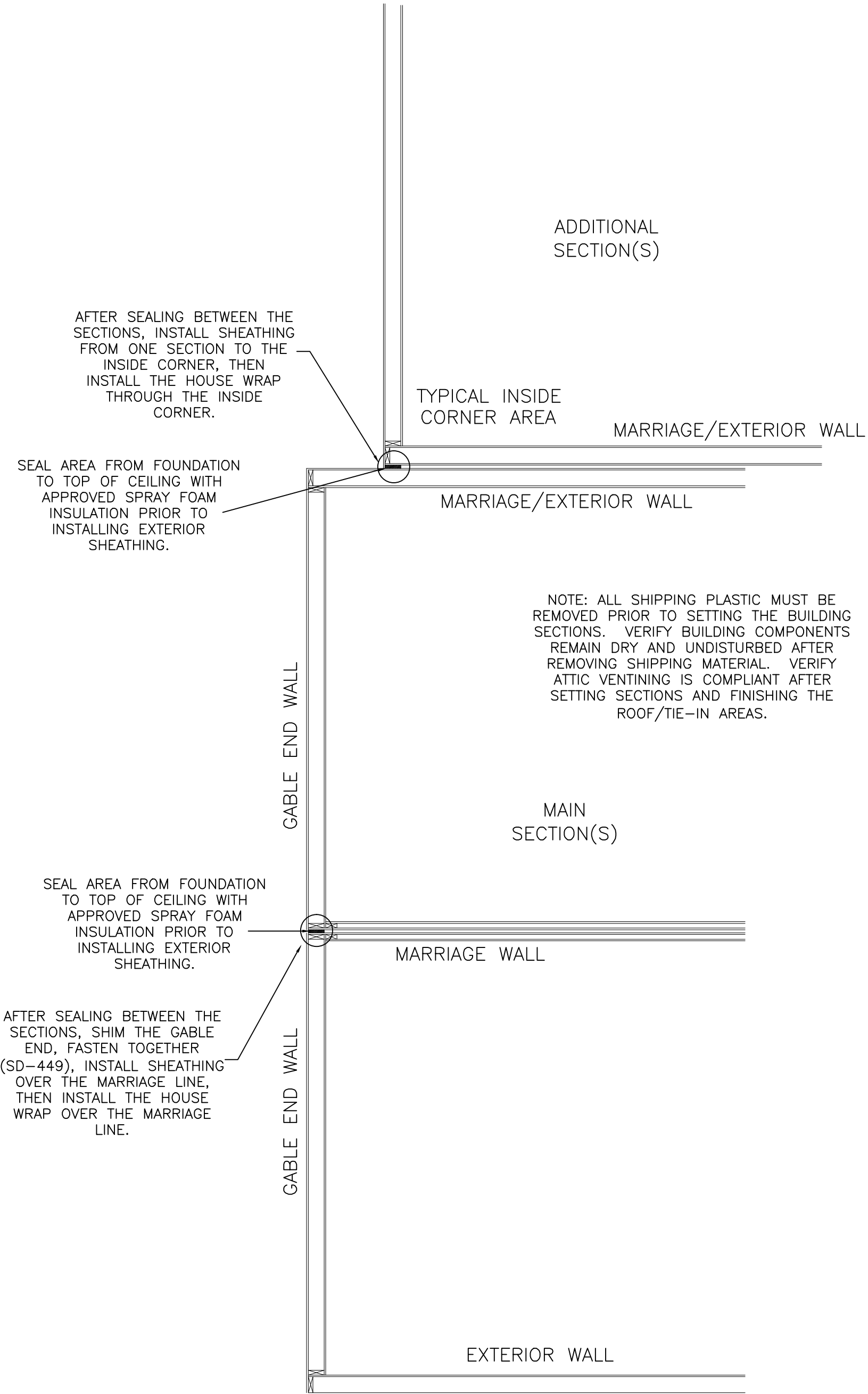
This manual includes general details for the setup, construction, and finishing of homes and buildings built by Wisconsin Homes, Inc. These are designed to assist those on-site with their project, although specific project details should be referenced. Every home or building is unique and should be treated as such. Any other additional details or information for your particular home or building will be furnished to the builder/dealer from Wisconsin Homes, Inc.




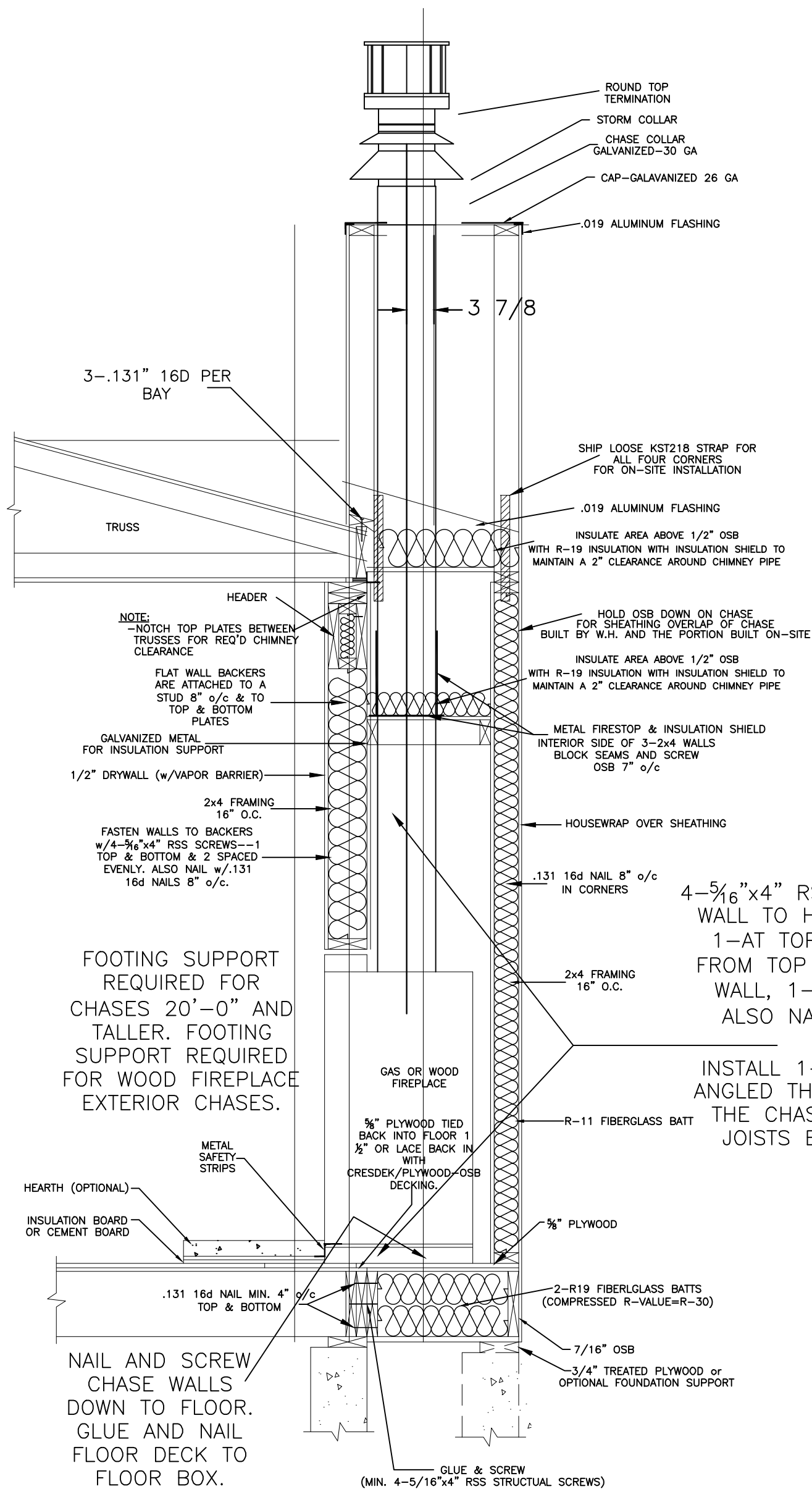
NOTE: COLUMN DETAILS ARE FOR 2x4 FLAT MARRIAGE WALLS. 2x4 MARRIAGE WALLS TURNED PERPENDICULAR (CONVENTIONAL ORIENTATION) DO NOT REQUIRE THE COLUMN. END WALLS WILL ALWAYS BE FASTENED TOGETHER AND MARRIAGE WALLS WITH CONVENTIONAL FRAMING WILL BE FASTENED TOGETHER PER DETAIL 41-SD.



FOUNDATION IS ON-SITE
BY OTHERS.



 WISCONSIN HOMES INC. 425 W. McMILLAN ST. MARSHFIELD, WI 54449	DESCRIPTION: GAP AND PENETRATION SEAL DETAIL		DWG NO.	431-SD (2)
	DATE: 5/22/17	SCALE: 3/8" = 1'	DRAWN BY:	



DWG NO. 331-SD

DRAWN BY: CM

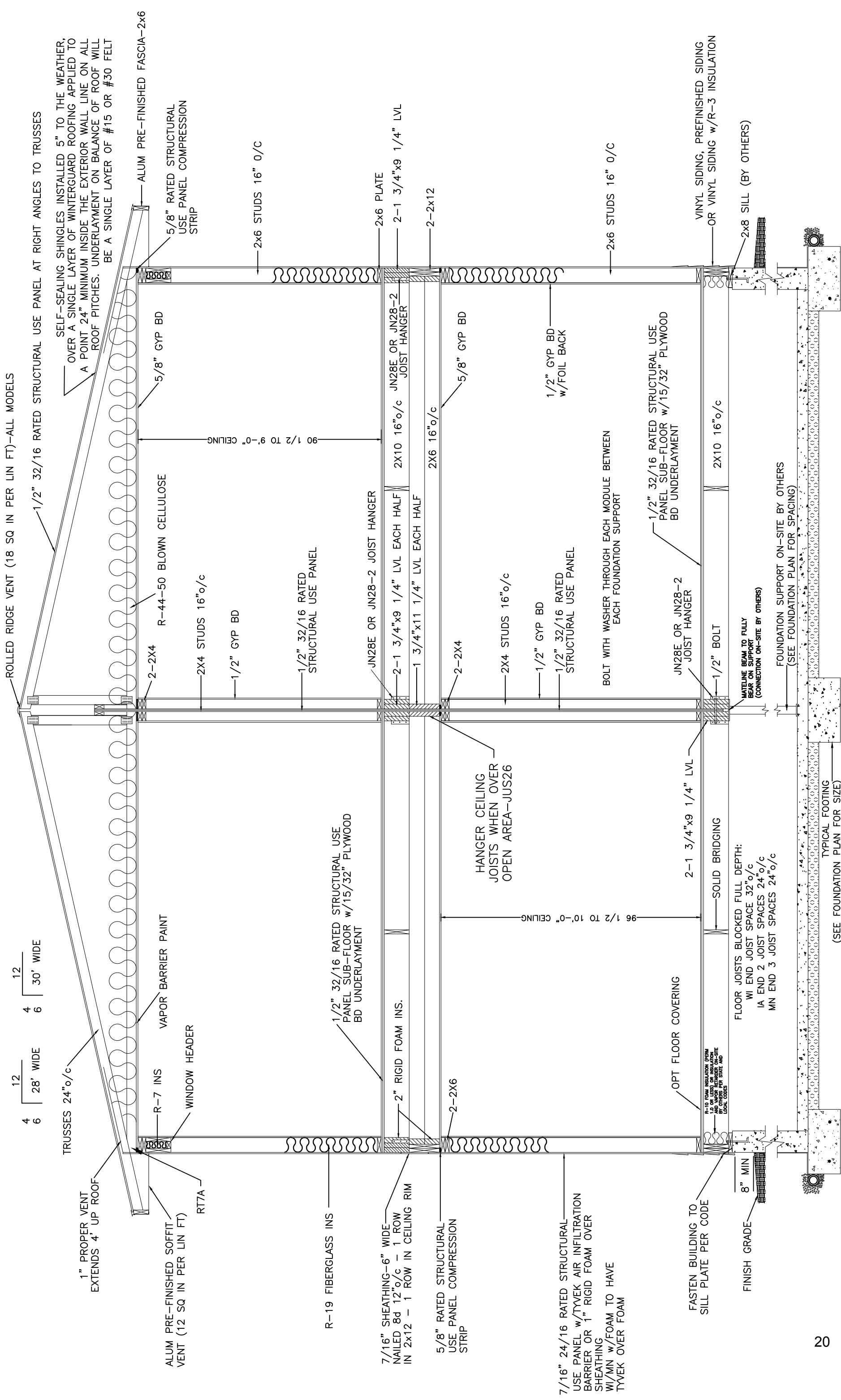
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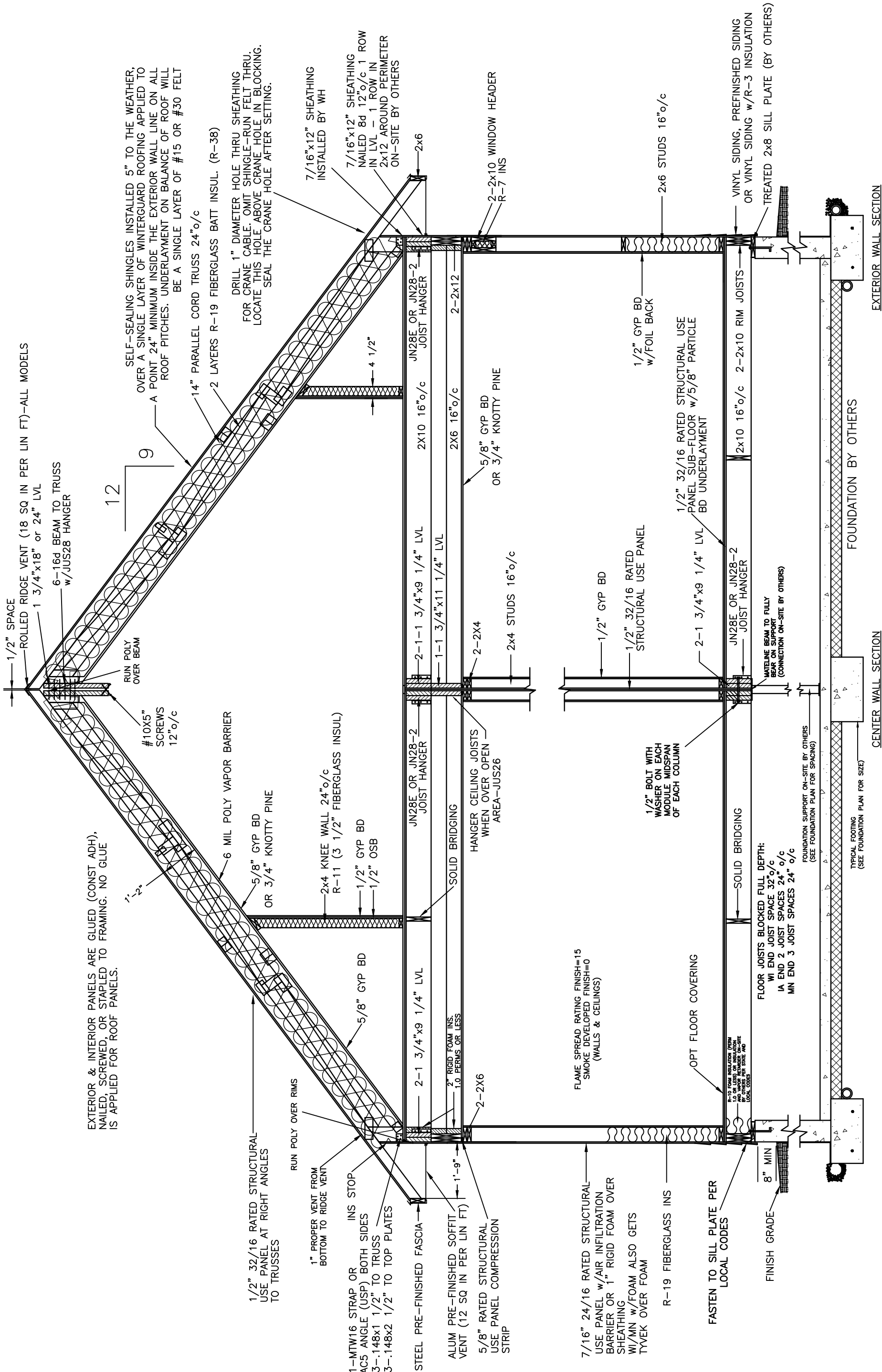
DESCRIPTION: EXTERIOR FIREPLACE CHASE

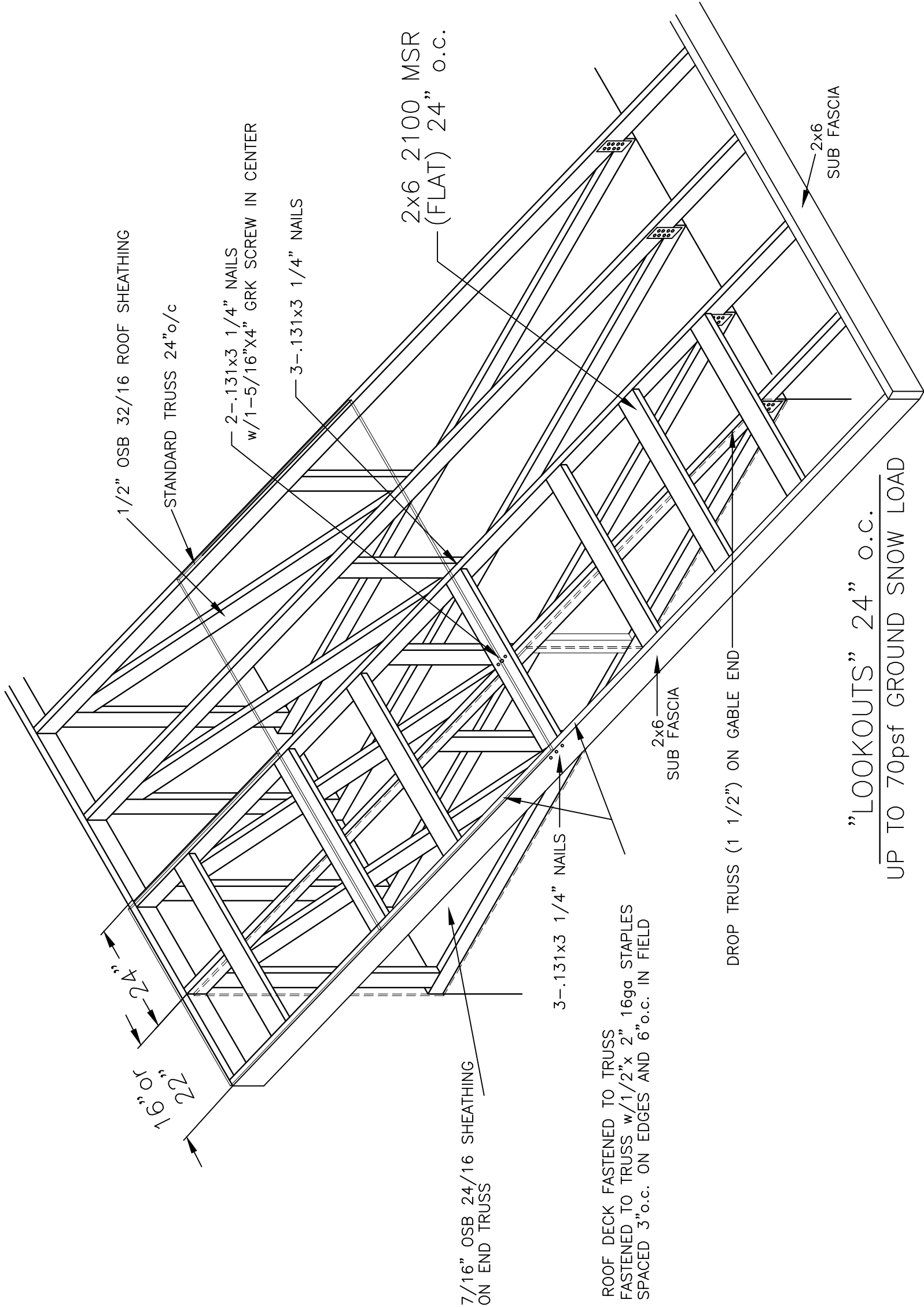
DATE: 06/13/12

WISCONSIN HOMES, INC.
425 W. McMILLAN ST.
MARSHFIELD, WI 54449

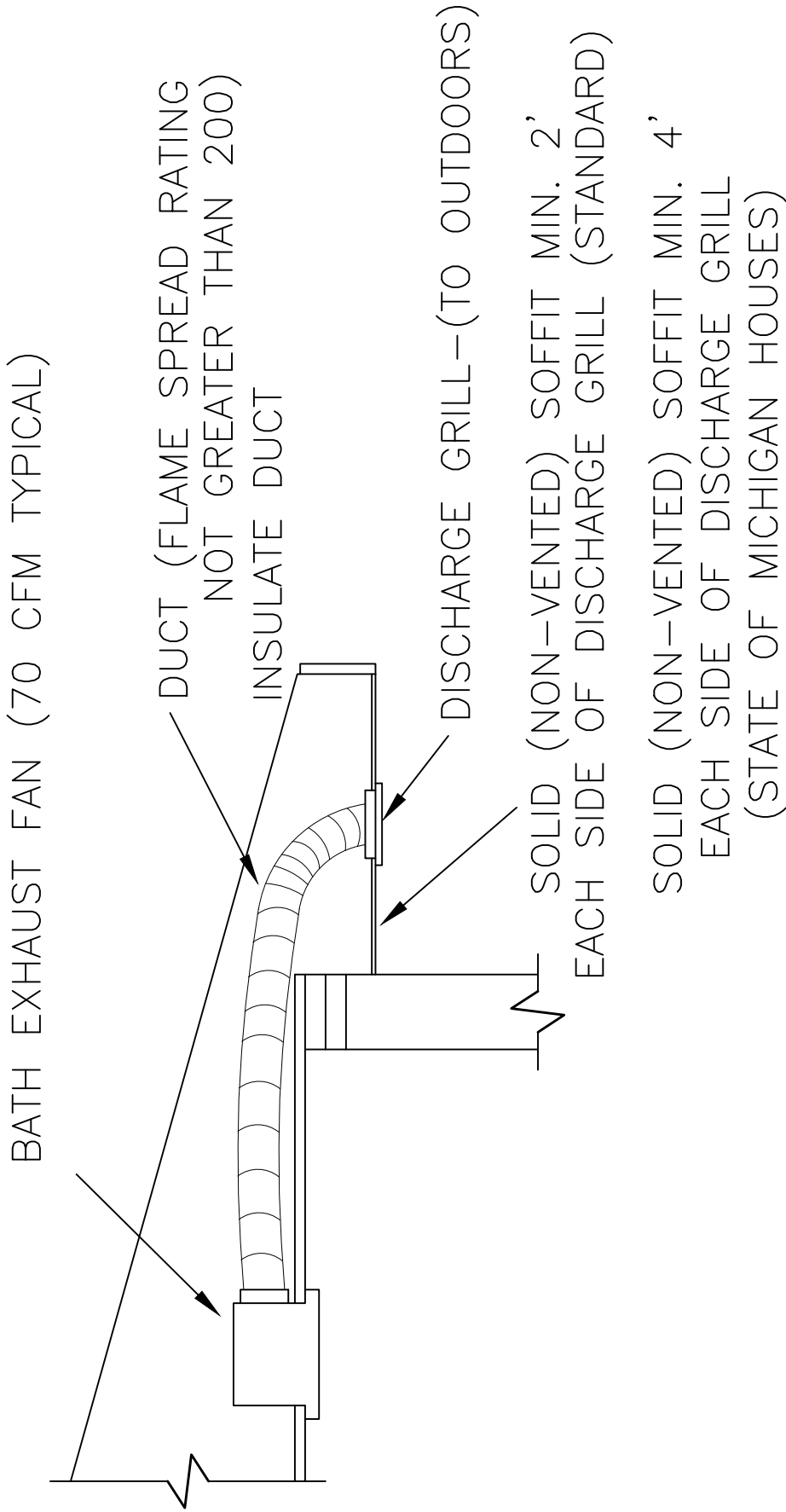




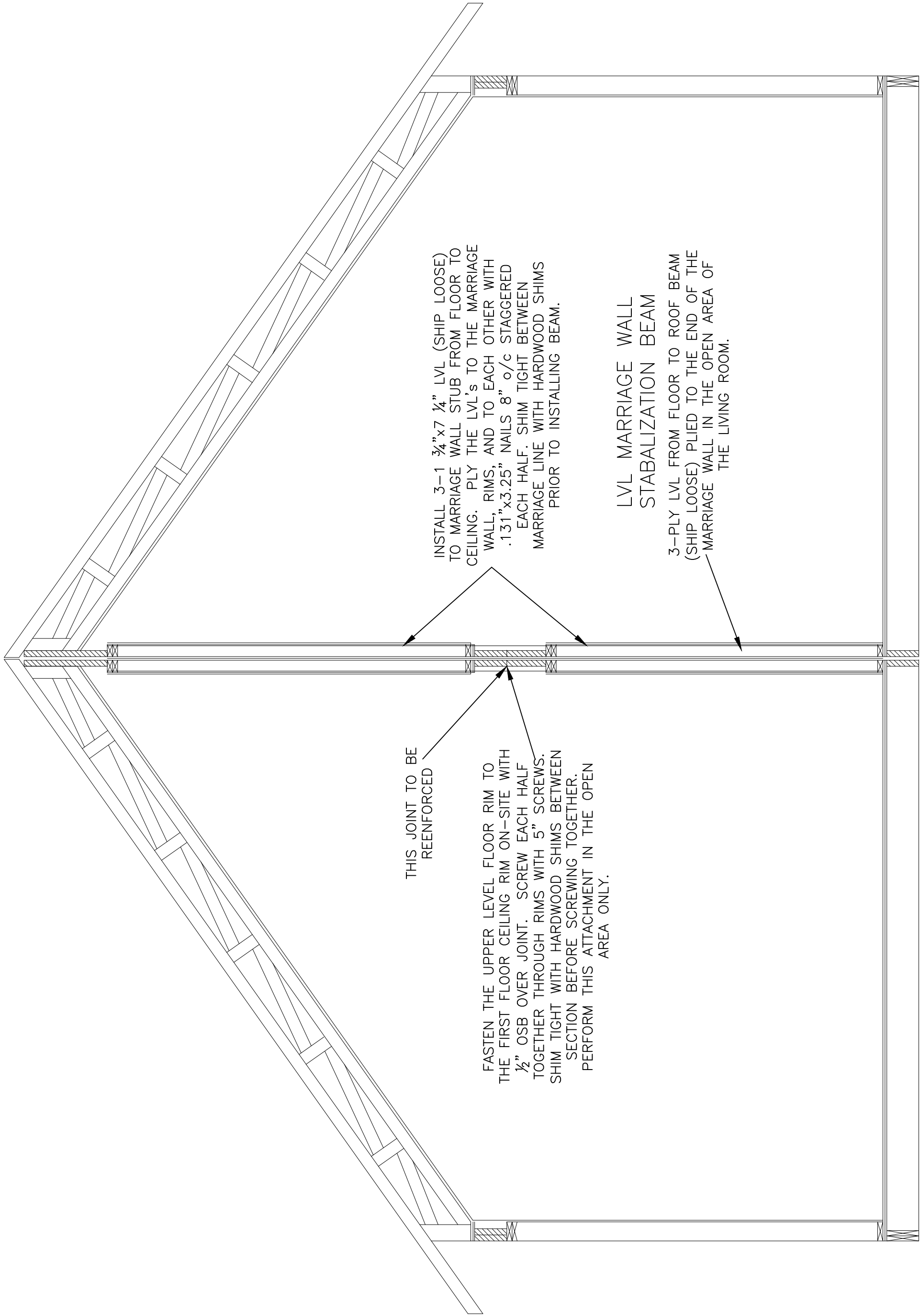




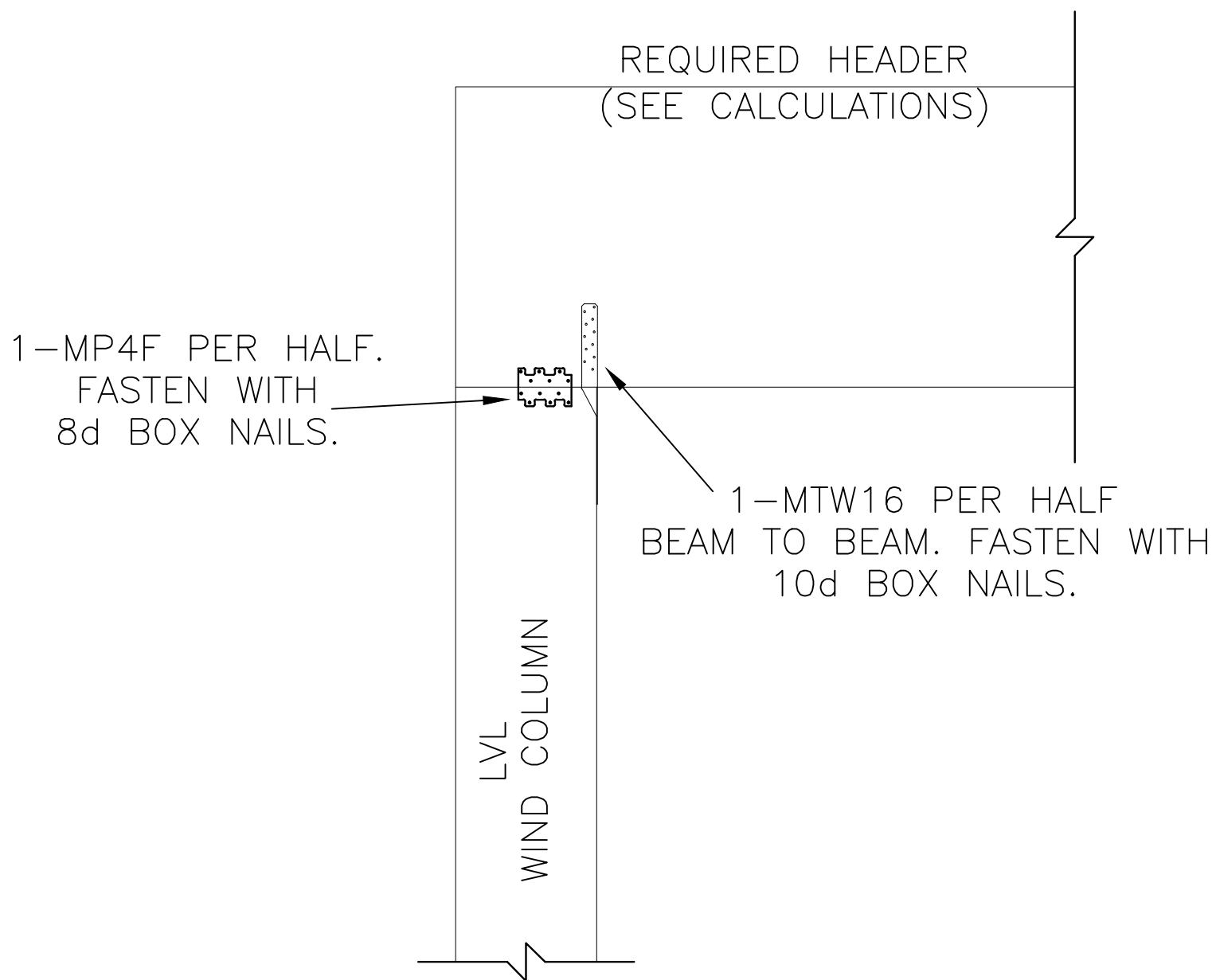
1 1/2 STORY AND 2-STORY HOMES
1st FLOOR BATH FAN MUST
BE VENTED OUT SIDEWALL



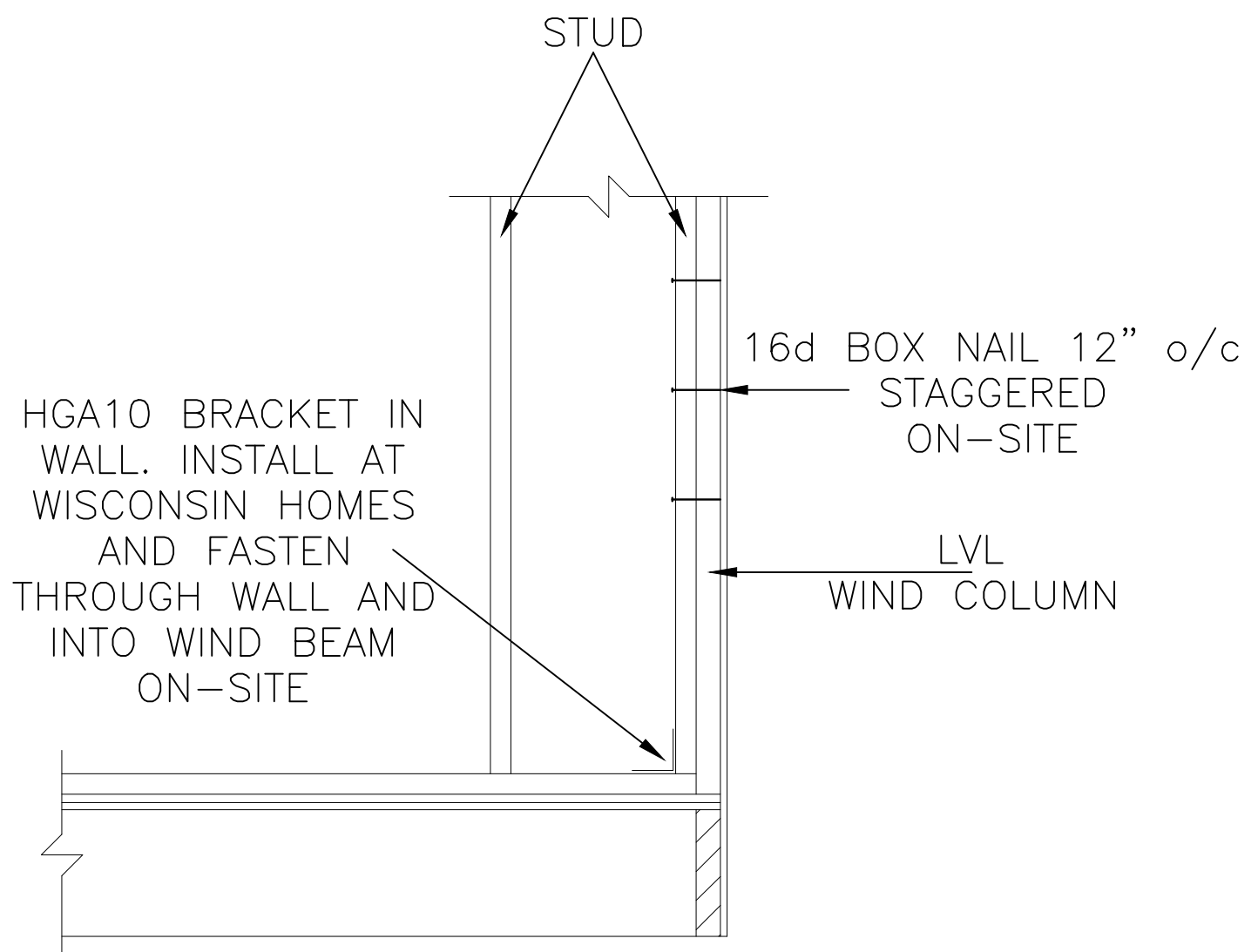
TYPICAL BATH FAN INSTALLATION
(STANDARD ALL BATHS)



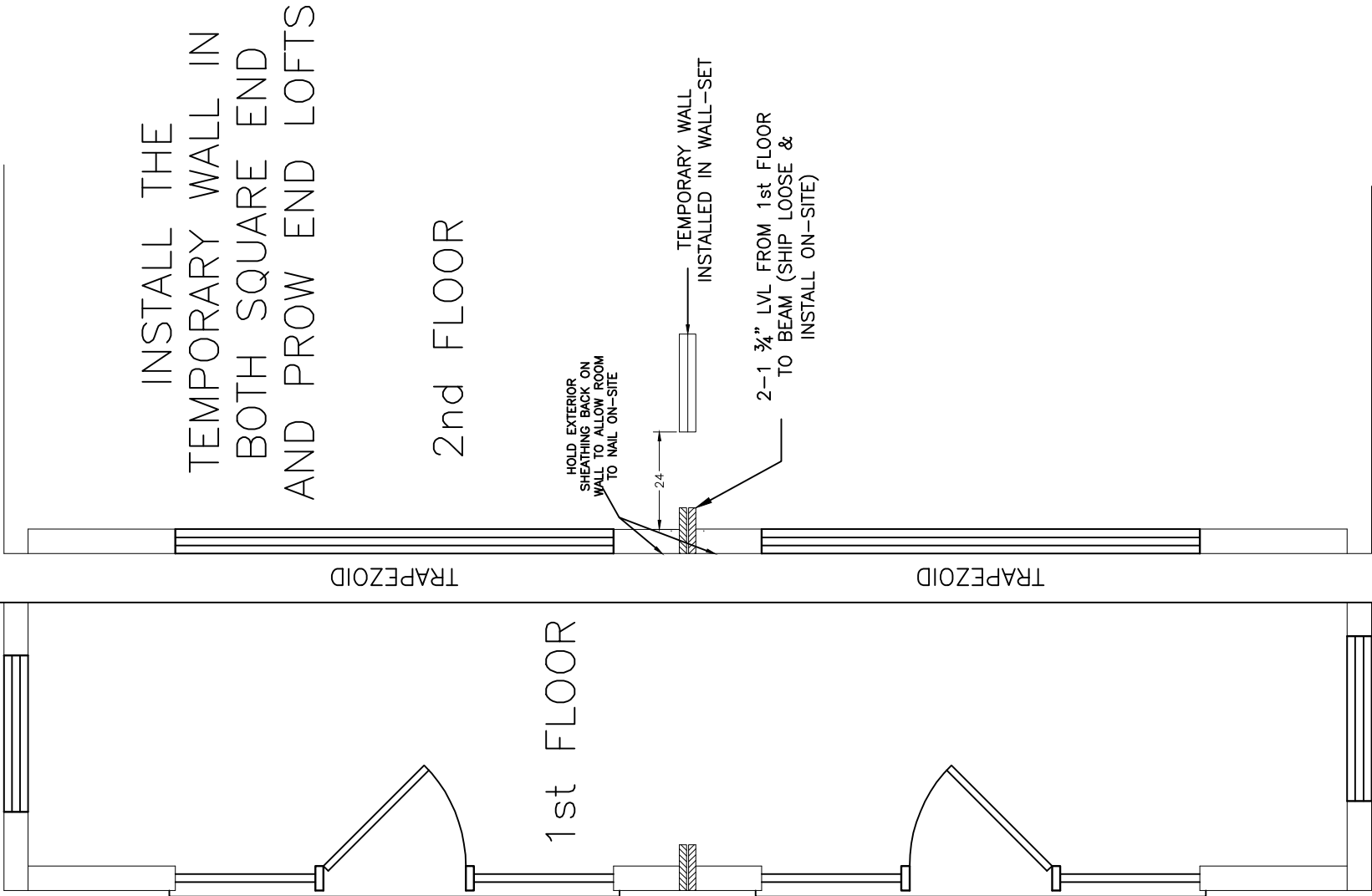
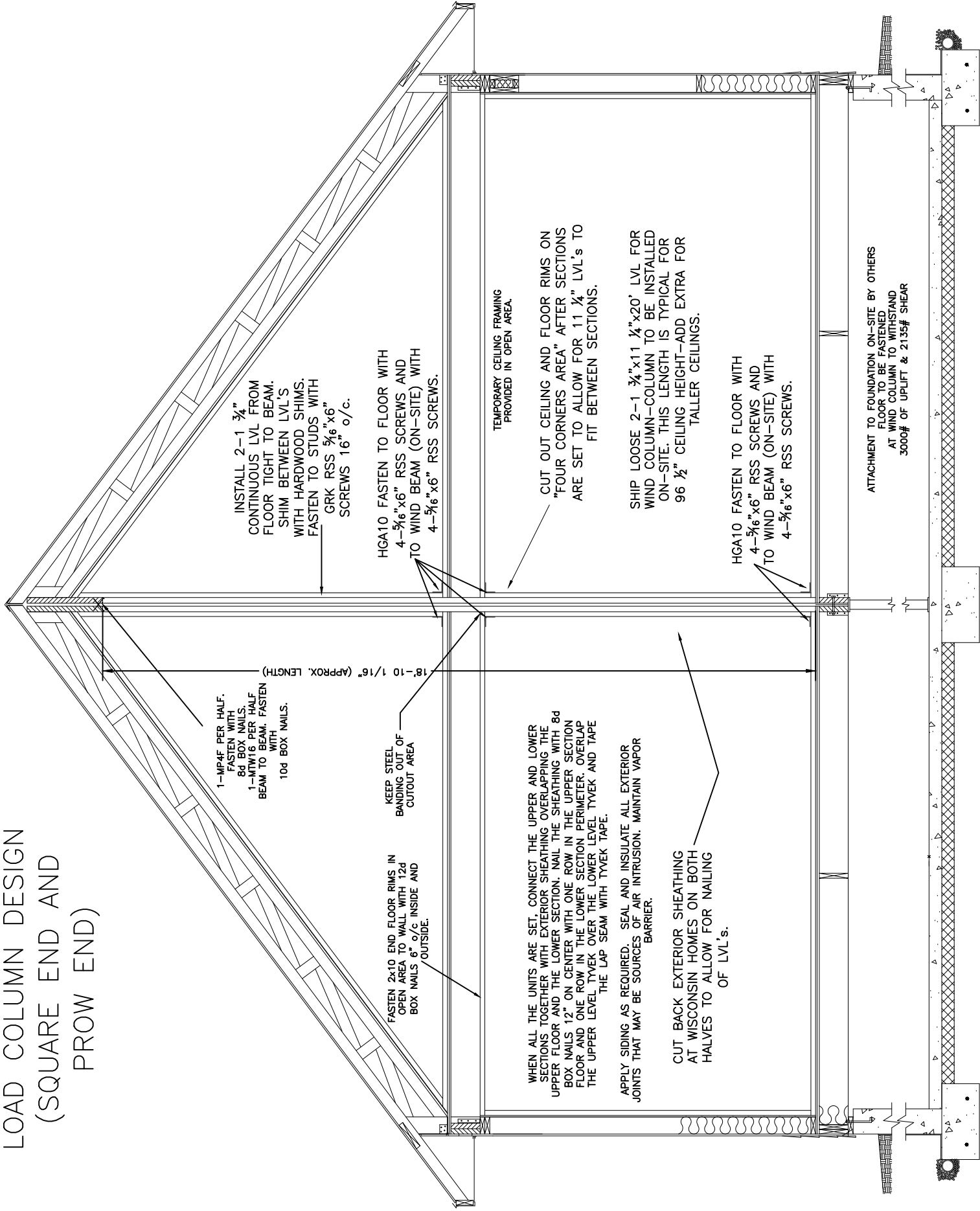
COLUMN
CONNECTION AT CEILING

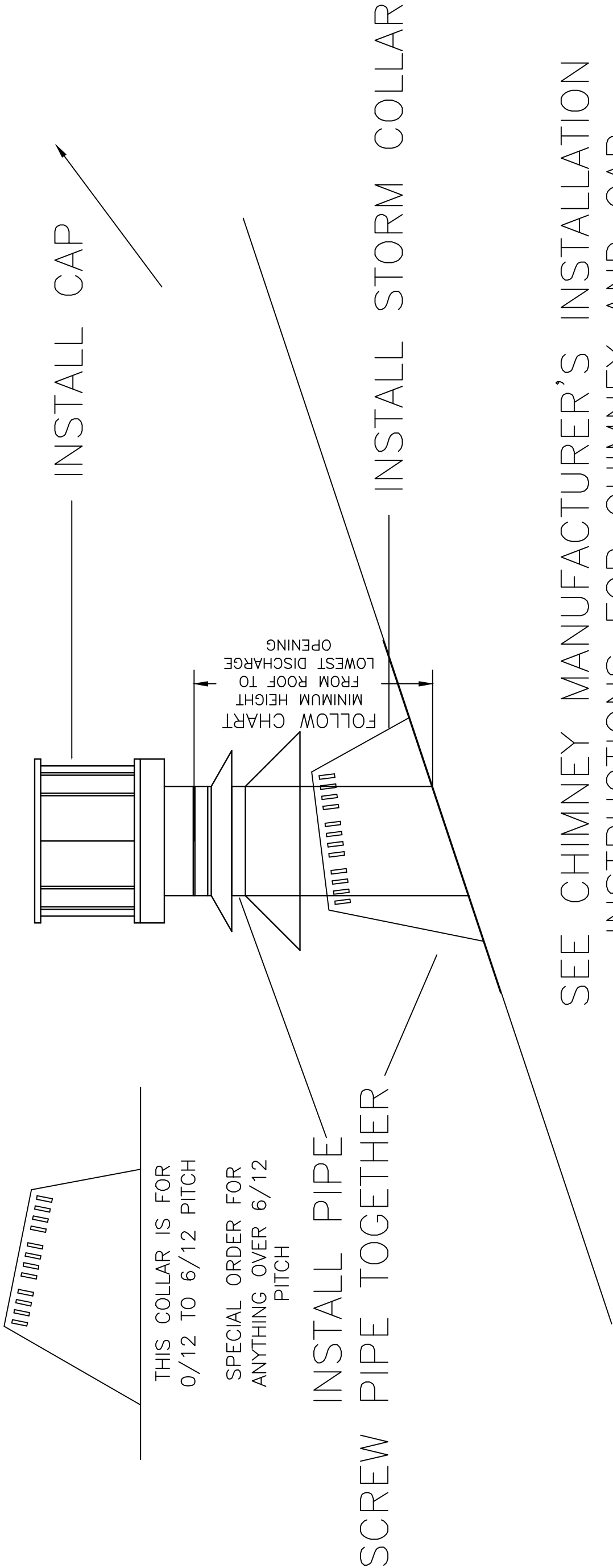


COLUMN
CONNECTION AT FLOOR



OPEN END LOFT WIND
LOAD COLUMN DESIGN
(SQUARE END AND
PROW END)



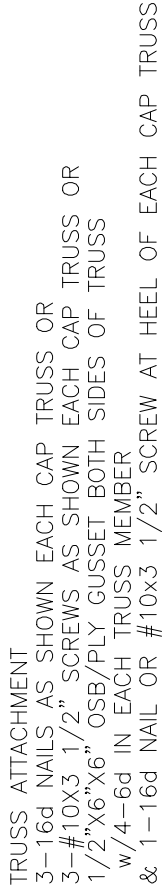


SEE CHIMNEY MANUFACTURER’S INSTALLATION
INSTRUCTIONS FOR CHIMNEY AND CAP
INSTALLTAION

FOR WOOD FIREPLACES VENTING THROUGH THE ROOF, THE ENTIRE
OPTIONAL CHASE WILL BE SHIPPED AND INSTALLED ON-SITE.
ATTACH CHASE PER CHASE ATTACHMENT INSTRUCTIONS.

ON SITE BY OTHERS

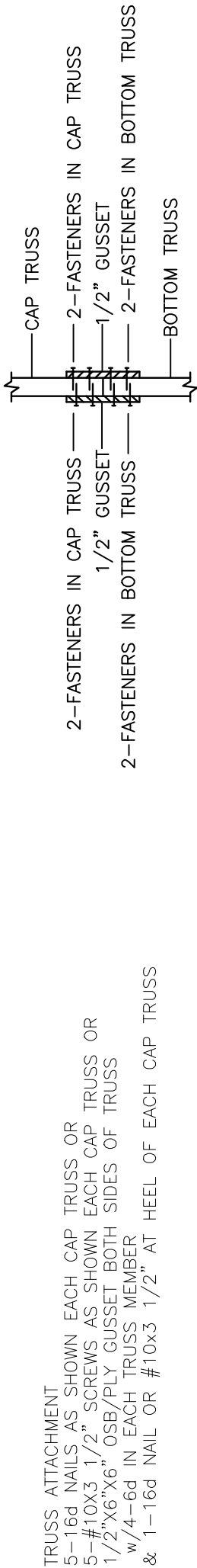
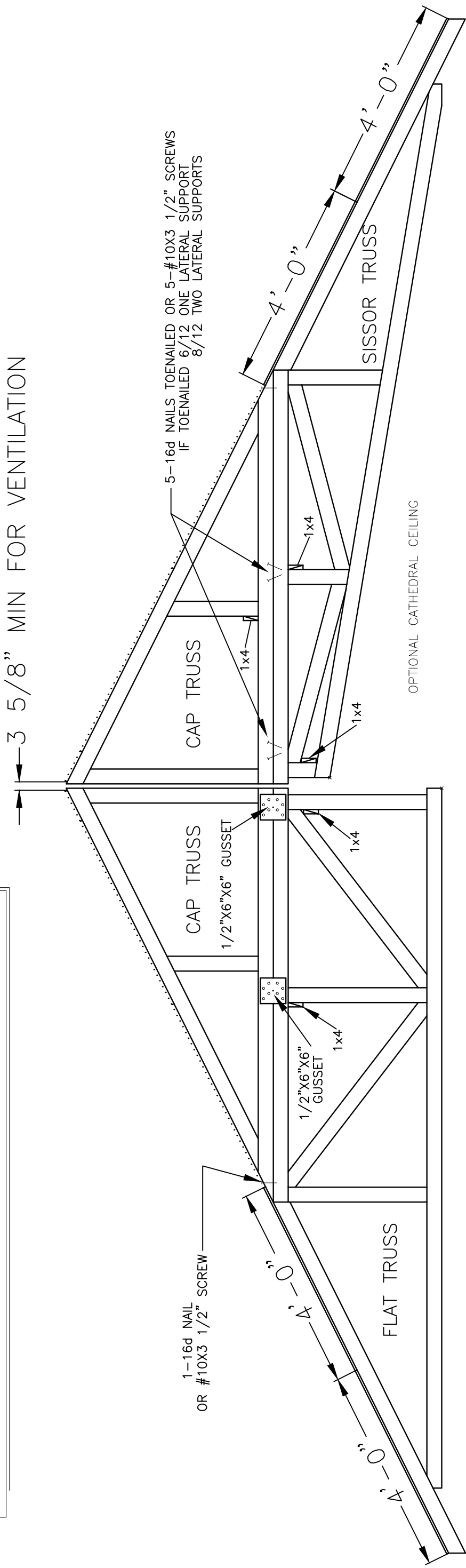
ATTACH CAP TRUSS PER DETAIL (3-OPTIONS)
COMPLETE GABLE END OVERHANG
APPLY 1/2" ROOF SHEATHING – SPACE 1/8" – NAIL 6d OR STAPLE 1/2"x1 3/4" 16GA
APPLY 7/16" SHEATHING, TYVEK OR FOAM TO GABLE END
2/12 TO 3/12-APPLY WINTERGUARD TO ENTIRE ROOF – APPLY ROOF EDGE, FASCIA, SOFFIT
3/12 TO 4/12-APPLY 2 – LAYERS FELT – APPLY ROOF EDGE, FASCIA, SOFFIT
4/12 & HIGHER-APPLY 1 – LAYER FELT – APPLY ROOF EDGE, FASCIA, SOFFIT
APPLY SHINGLES PER INSTRUCTIONS ON BUNDLE
APPLY RIDGE VENT AND ANY PLUMBING OR CHIMNEY STACKS AS REQUIRED
COMPLETION OF SOME SKYLITES ON SITE BY OTHERS

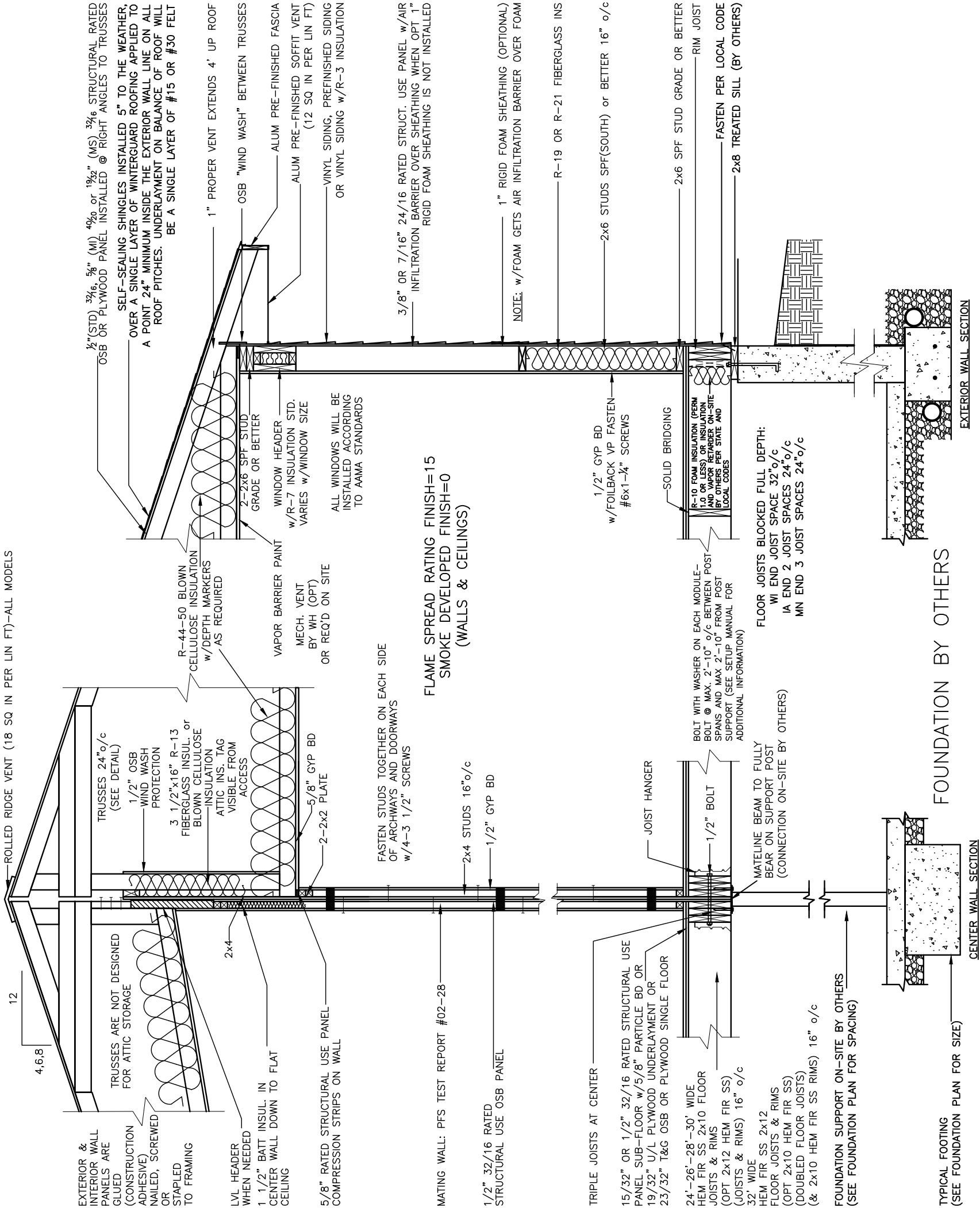


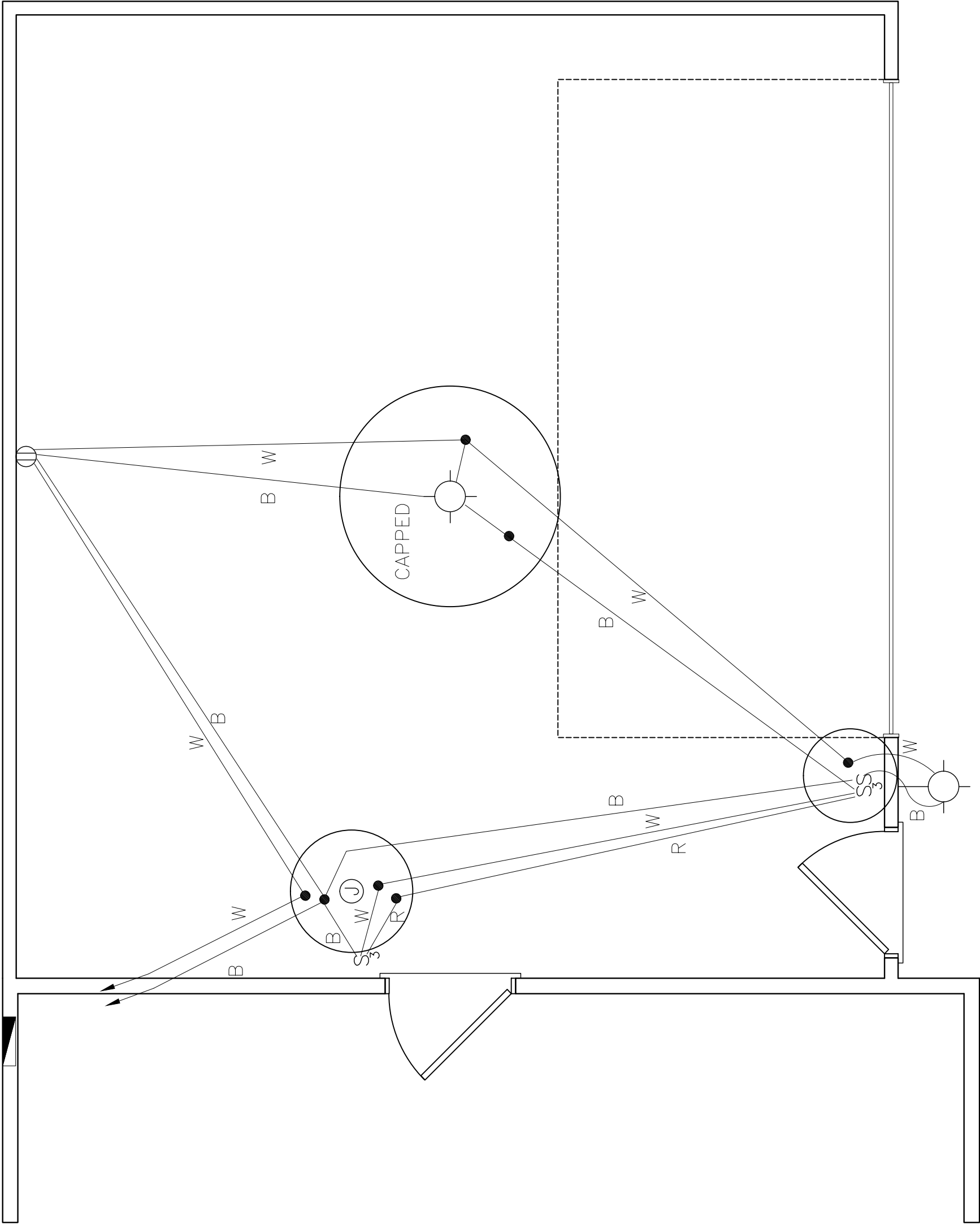
ON-SITE BY OTHERS

ATTACH CAP TRUSS PER DETAIL (3-OPTIONS)
COMPLETE GABLE END OVERHANG
APPLY 1/2" ROOF SHEATHING - SPACE 1/8" - NAIL 6d OR STAPLE 1/2"x1 3/4" 16GA
APPLY 7/16" SHEATHING, TYVEK OR FOAM TO GABLE END
APPLY 1-LAYER FELT - APPLY ROOF EDGE, FASCIA, SOFFIT
APPLY SHINGLES PER INSTRUCTIONS ON BUNDLE
APPLY RIDGE VENT AND ANY PLUMBING OR CHIMNEY STACKS AS REQUIRED
COMPLETION OF SOME SKYLITES ON SITE BY OTHERS

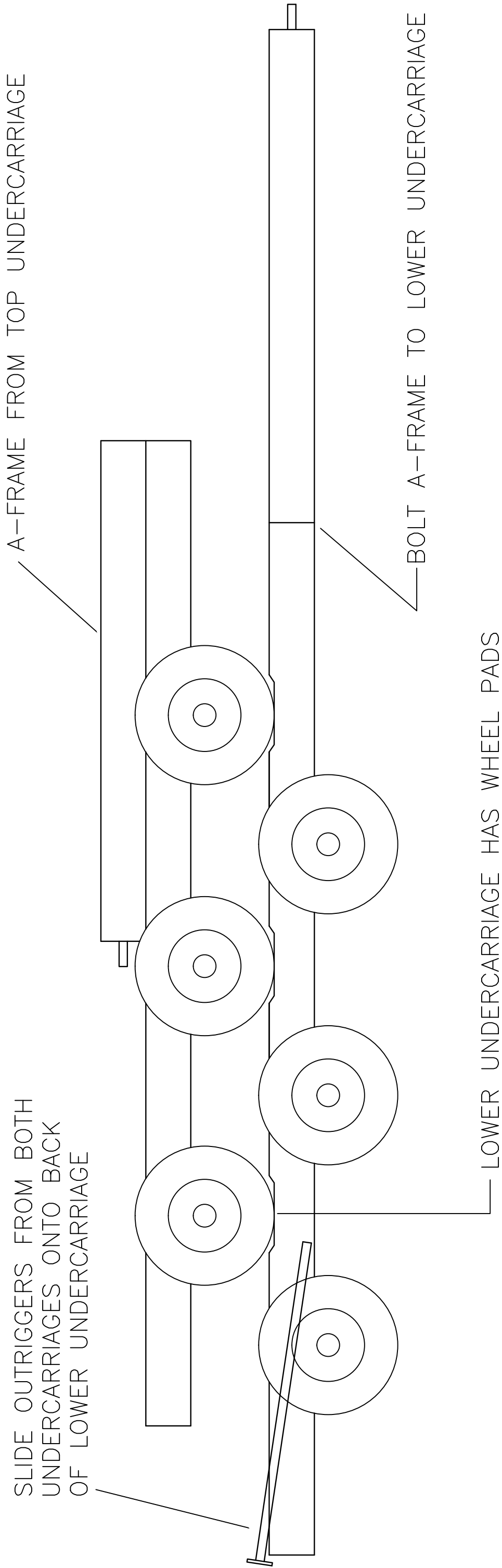
3 5/8" MIN FOR VENTILATION



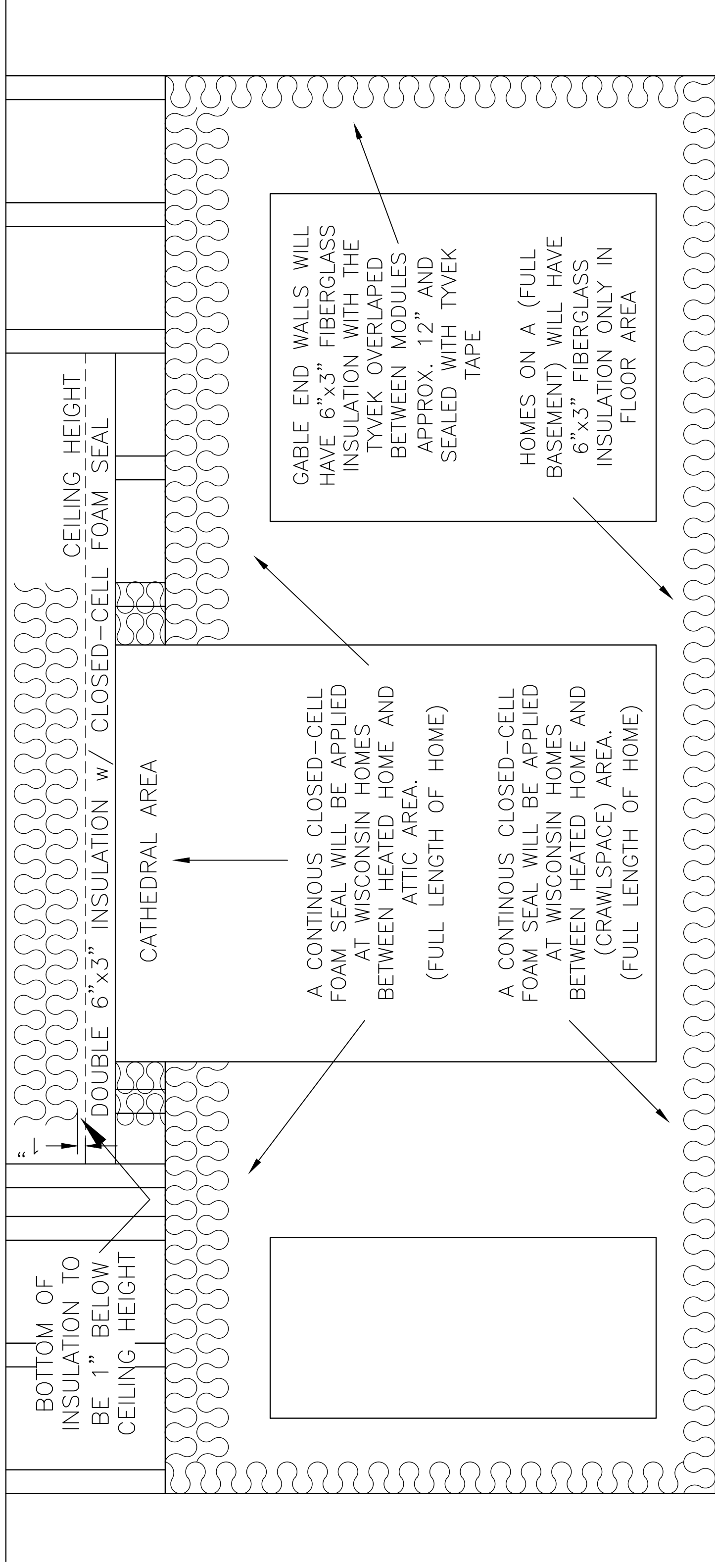




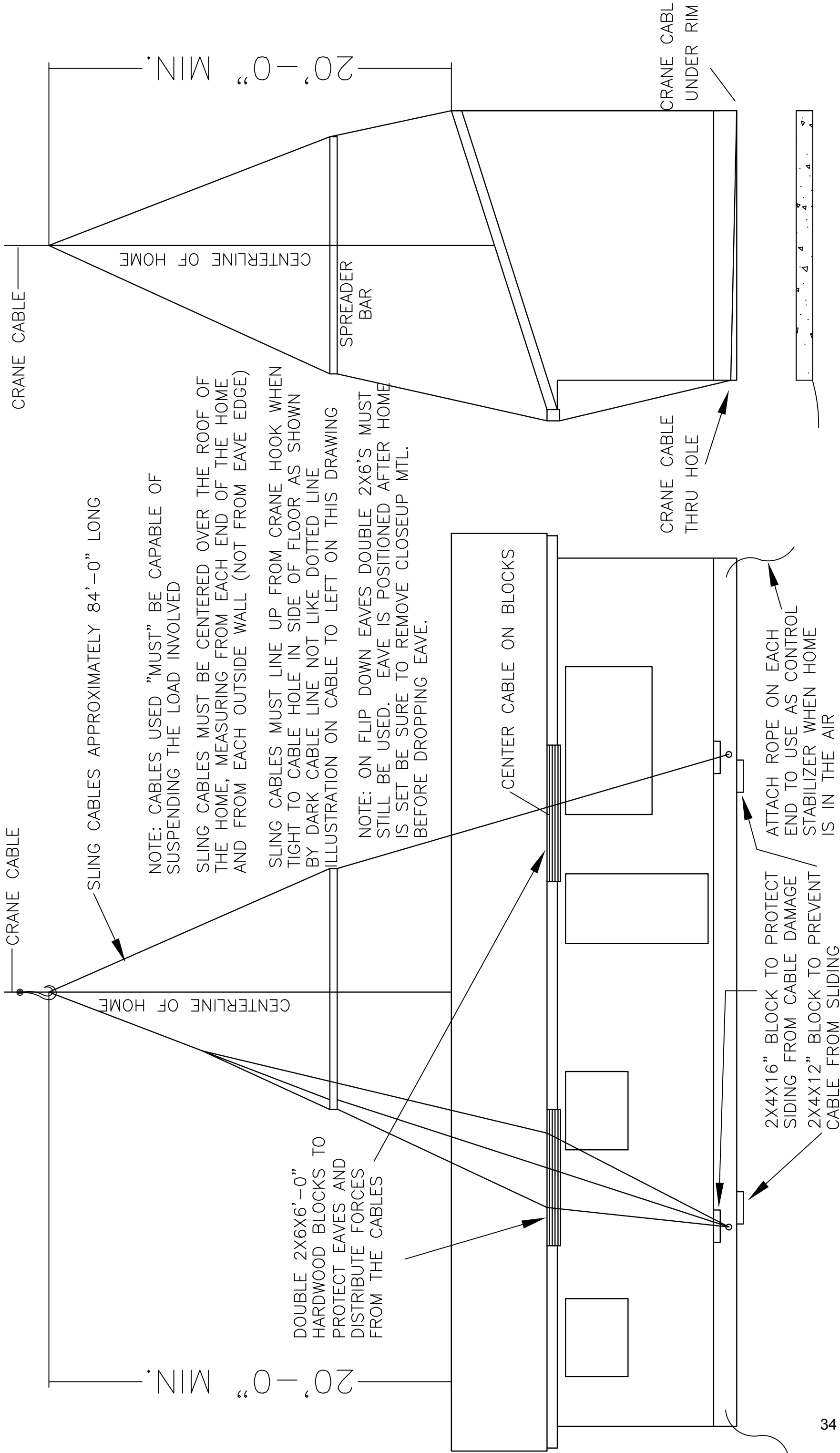
IT IS THE BUILDER/DEALER RESPONSIBILITY TO STACK THE UNDERCARRIAGES, ATTACH OUTRIGGERS AND PREPARE UNDERCARRIAGE FOR RETURN SHIPMENT.



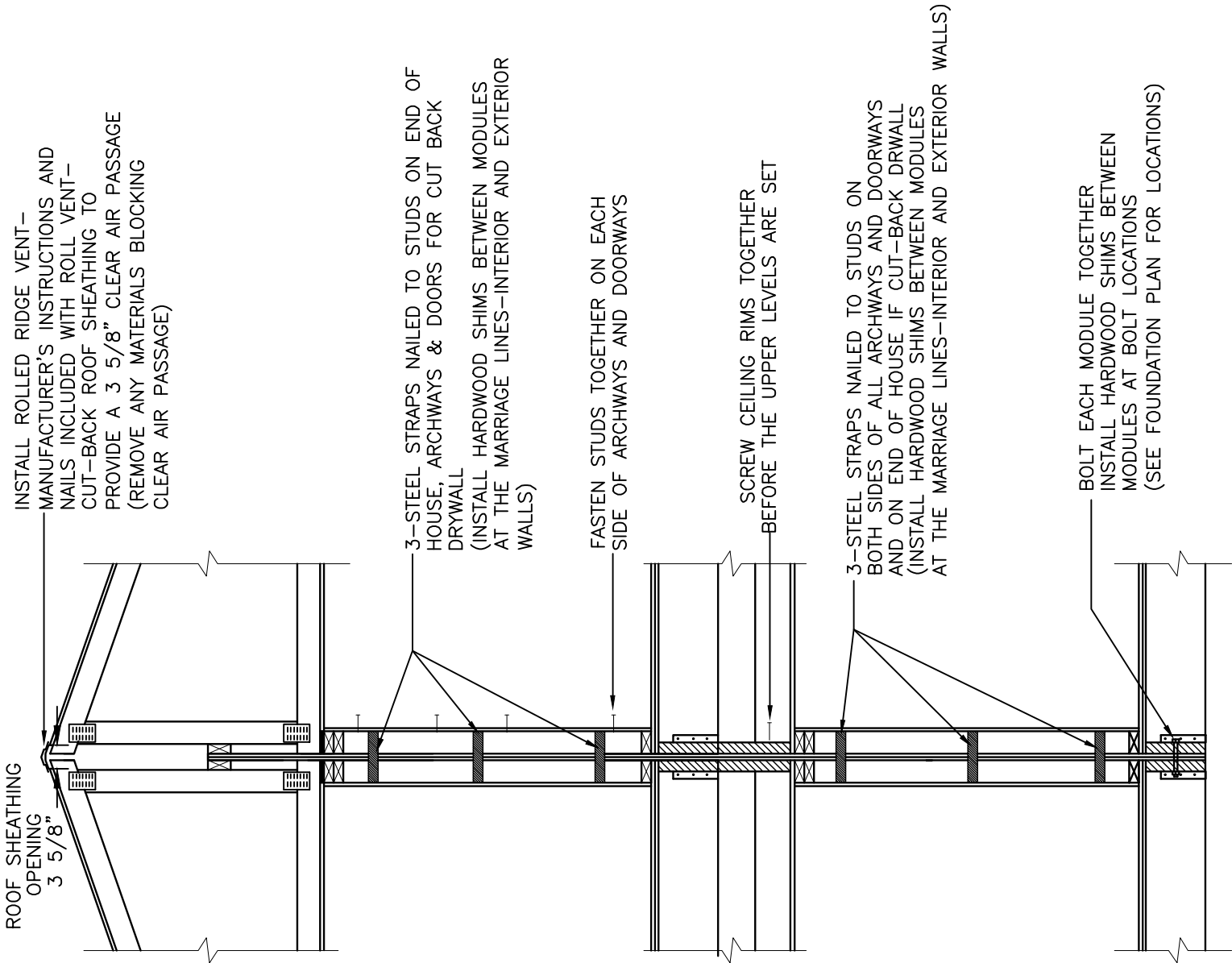
THE CLOSED CELL FOAM WILL BE INSTALLED IN ADDITION TO FIBERGLASS INSULATION. FOAM SEAL TO THE INSIDE (WARM SIDE). WAVY LINES INDICATES 6"x3" FIBERGLASS INSULATION TO BE APPLIED TO ONE HALF OF EACH HOME BEFORE UNITS ARE SHIPPED. CARE MUST BE TAKEN ON-SITE NOT TO DAMAGE INSULATION & SEAL WHEN SETTING MODULES. REPLACE THE SEAL AND/OR FIBERGLASS IF DAMAGED. INSTALL SPRAY FOAM OR EQUIV. INSULATION BETWEEN MARRIAGE WALLS IN ATTIC, AT WALLS/RIMS AT THE MATE LINE (SPRAY FOAM OR EQUIV. SUPPLIED ON-SITE BY OTHERS).



33 TYPICAL VIEW FROM OPEN SIDE (INSULATION AND FOAM SEAL WILL BE INSTALLED AT WISCONSIN HOMES)



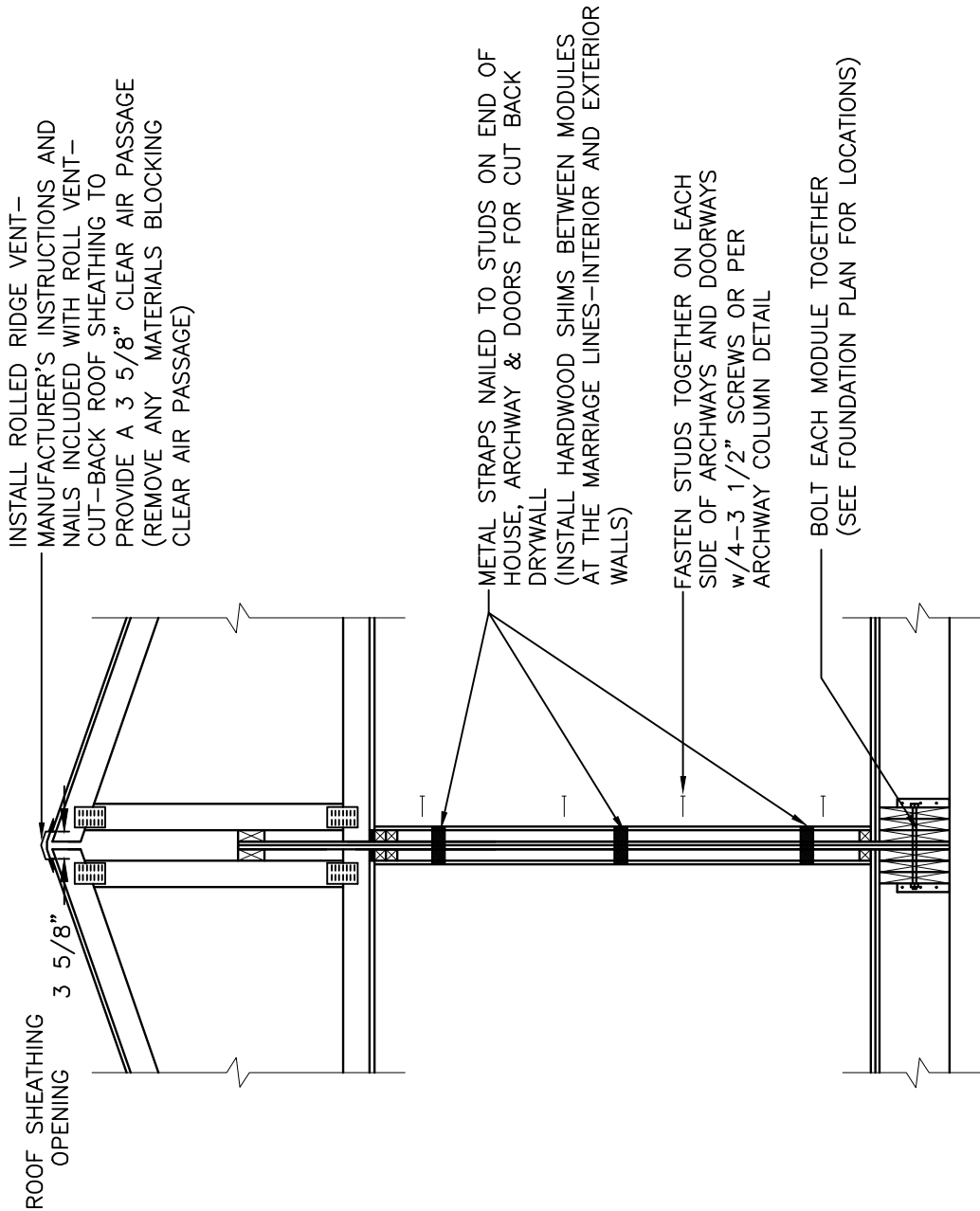
I. ROOF FASTENING AND INSTALLATION OF RIDGE VENT:



J. FLOOR FASTENING:

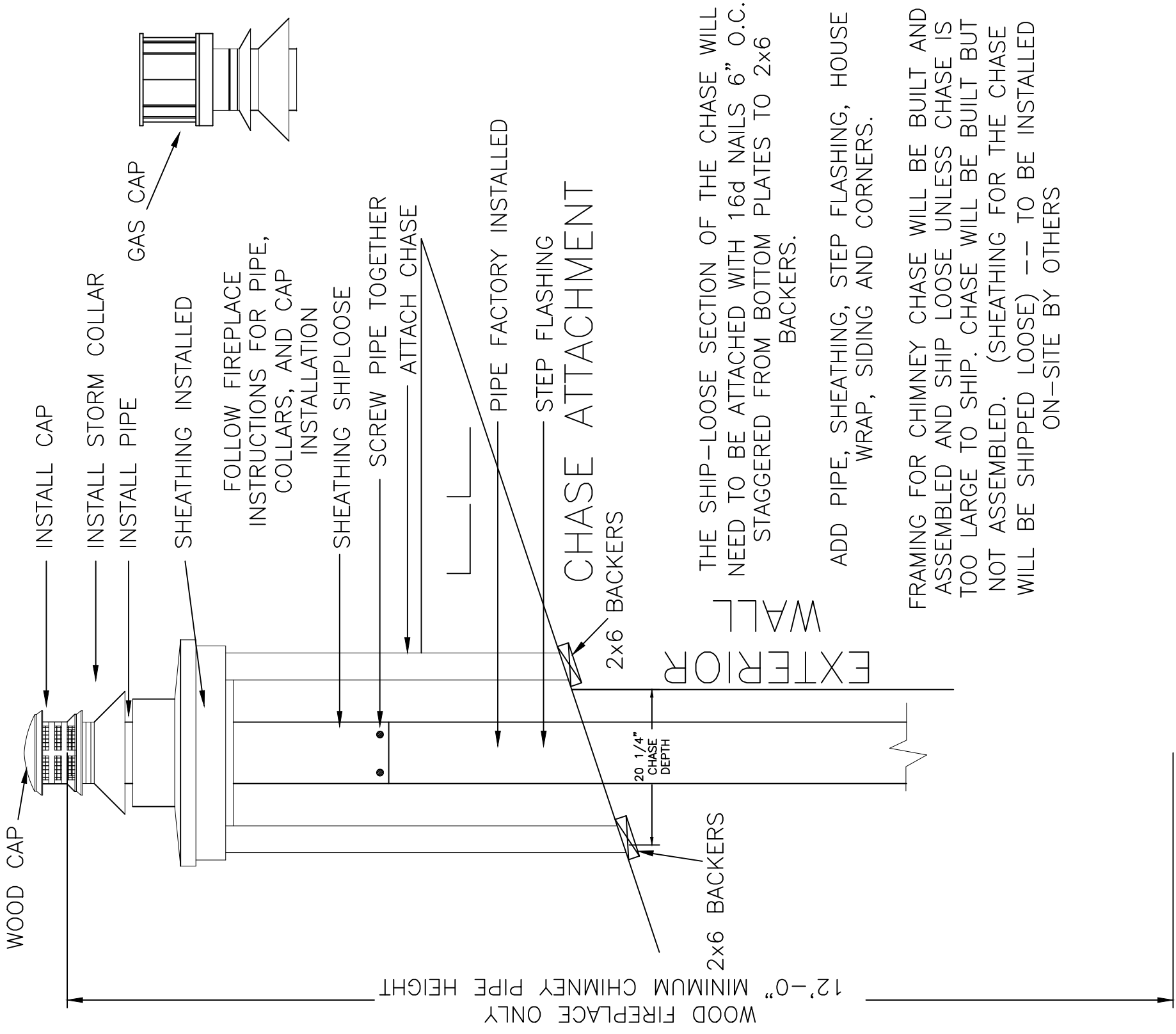
ANY AIR SPACE BETWEEN MODULES MUST BE SHIMMED TIGHTLY TOGETHER AT BOLT LOCATIONS BEFORE BOLTING TO AVOID PULLING RIM JOIST AWAY FROM FLOOR JOISTS. BOLTS SHOULD BE LOCATED PER FOUNDATION PLAN SUPPLIED BY WISCONSIN HOMES, INC.

F. ROOF FASTENING AND INSTALLATION OF RIDGE VENT:



G. FLOOR FASTENING:

ANY AIR SPACE BETWEEN MODULES MUST BE SHIMMED TIGHTLY TOGETHER AT BOLT LOCATIONS BEFORE BOLTING TO AVOID PULLING RIM JOIST AWAY FROM FLOOR JOISTS. BOLTS SHOULD BE LOCATED PER FOUNDATION PLAN SUPPLIED BY WISCONSIN HOMES, INC.



THE SHIP-LOOSE SECTION OF THE CHASE WILL NEED TO BE ATTACHED WITH 16d NAILS 6" O.C. STAGGERED FROM BOTTOM PLATES TO 2x6 BACKERS.

ADD PIPE, SHEATHING, STEP FLASHING, HOUSE WRAP, SIDING AND CORNERS.

FRAMING FOR CHIMNEY CHASE WILL BE BUILT AND ASSEMBLED AND SHIP LOOSE UNLESS CHASE IS TOO LARGE TO SHIP. CHASE WILL BE BUILT BUT NOT ASSEMBLED. (SHEATHING FOR THE CHASE WILL BE SHIPPED LOOSE) -- TO BE INSTALLED ON-SITE BY OTHERS