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This architectural cross-section diagram illustrates the construction details of a house's exterior and interior framing. The diagram shows a gabled roof with a 12/8 slope, supported by engineered trusses. The exterior walls are built with 2x4 studs, featuring R-20 batt insulation on the interior and 1/2" OSB sheathing on the exterior. A central vertical column supports the roof and provides structural separation between the Dining, Great Room, and Owners Suite. The Great Room contains R-49 blown insulation. The Owners Suite has a height of 9'-6". The basement floor is made of 20" floor trusses spaced at 19.2" O.C., resting on a 3 1/2" concrete slab with 6 mil poly underneath. The exterior foundation walls are insulated with R-20 spray foam and have 1/16" OSB exterior sheathing with house wrap. The dining area is labeled "DINING", the main living area is "GREAT RM.", the master bedroom is "OWNERS SUITE", and the underground level is "BASEMENT". Foundation details include drain tile rock and fabric.

12

8

1/2" O.S.B. SHEATHING

ENGINEERED TRUSSES AS PER TRUSS MANUFACTURER

R-20 BATT INSUL.

R-49 BLOWN INSUL.

DINING

GREAT RM.

OWNERS SUITE

3/4" T&G O.S.B.

1/16" OSB EXT. SHEATHING W/ HOUSE WRAP

20" FLOOR TRUSSES @ 19.2" O.C.

2" R-10 EXT. FOAM INSUL. & 1" R-5 INT. INSUL.-TYP.

BASEMENT

3 1/2" CONC. SLAB W/ 6 MIL POLY

R-20 SPRAY FOAM RI

8'-2"

DRAIN TILE ROCK & FABRIC

# SECTION

A technical diagram showing a cross-section of a half wall. The wall is built with vertical studs and horizontal top and base plates. A header beam spans across the top. An arrow points to the header with the label "1x WD. CAP". Another arrow points to the bottom plate with the label "4 1/4\"/> BASE-INVERTED".

# SLOPE SILLS

**EXTENT OF HEADER**  
**DBL. PORTAL FRAME (TWO BRACED WALL PANELS)**

**EXTENT OF HEADER**  
**SINGLE PORTAL FRAME (ONE BRACED WALL PANEL)**

**MIN. 3"x11.25" NET HEADER**

**6' TO 18'**

**FASTEN TOP PLATE TO HDR. W/ TWO ROWS OF 16F SINKER NAILS 3" O.C.-TYP.**

**1000 LB STRAP OPPOSITE SHEATHING**

**FASTEN SHEATHING TO HDR. W/ 8D COMMON OR GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN & 3" O.C. IN ALL FRAMING (STUD, BLOCKING AND SILLS)-TYP.**

**MAX. HEIGHT 10'**

**MIN. WIDTH = 16" FOR ONE STORY STRUCTURES  
MIN. WIDTH = 24" FOR USE IN THE FIRST OF TWO STORY STRUCTURES**

**MIN. 2x4 FRAMING**

**3/8" MIN. THICKNESS WOOD STRUCTURAL PANEL SHEATHING**

**MIN. 4200 LB TIE-DOWN DEVICE (EMBEDDED INTO CONCRETE & NAILED INTO FRAMING)**

**SEE SUB. (9) (b) 4. AND 5.**

**MIN. DOUBLE 2x4 POST**

**MIN. 1000 LB TIE DOWN DEVICE**

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**ALT. BRACING METHOD W/ EXTENDED HDR & TIE DOWNS**

ALT. BRACING METHOD W/ EXTENDED HDR & TIE DOWNS

# PORTAL WALL

The diagram illustrates a wooden staircase leading up to a garage door. The stairs are built with 2x12 stringers and 2-5/4x6 risers. The landing has a 2x4 top rail, 2x4 vertical rail, and 2x2 pickets. A code handrail with brackets is attached to the wall. The garage door is labeled "DOOR". A horizontal dashed line represents the "MAIN LEVEL FLOOR LINE". Arrows point from labels to specific parts of the stairs and landing. A dimension line at the bottom indicates a width of "4'-0"".

CODE HANDRAIL WITH BRACKETS

2x4 TOP RAIL WITH 2x4 VERTICAL RAIL

2x2 PICKETS

2-5/4x6 PER STEP

1x TOE KICK

2x12 STRINGER

DOOR

MAIN LEVEL FLOOR LINE

(1) STEP INTO HOUSE W/ TOE KICK

(4) E.Q. RISERS TO MAIN FLOOR  
VERIFY HEIGHT W/ BUILDER

GARAGE FLOOR (DROPPED)

4'-0"

# GARAGE STAIRS

This architectural cross-section diagram illustrates the construction details of a house's exterior and interior walls, as well as its foundation and roof. The diagram shows a multi-story structure with various rooms labeled: PORCH, ENTRY, HALL, KITCHEN, GREAT RM., and BASEMENT. Key features include:

- Roof:** Engineered trusses are used, as per the manufacturer's specifications.
- Exterior Wall Insulation:** R-20 batt insulation is shown at the top left, and 7/16" OSB exterior sheathing with house wrap is shown on the right.
- Interior Wall Insulation:** R-49 blown insulation is present in the upper wall sections, while R-20 spray foam rim insulation is used in the lower basement walls.
- Floor Construction:** The floor consists of 20" floor trusses spaced at 19.2" O.C. (On Center). The basement floor is supported by a 3 1/2" concrete slab with 6 mil poly underneath.
- Basement:** The basement walls are insulated with 2" R-10 exterior foam insulation.
- Section Labels:** The diagram includes labels for "SECTION" at the bottom, "2 1/4" = 1'-0" for scale, and dimensions for height (e.g., 9'-0" for the first floor height).

# SECTION

An architectural drawing of a staircase. The total vertical height is labeled as 8'-2". The horizontal distance from the bottom of the stairs to the wall is 5'-10". The stairs consist of 16 equal risers. A diagonal line indicates the minimum headroom, which is labeled as 6'-8". The total width of the stairs is 9'-10 3/4".

# SECTION

This architectural floor plan diagram illustrates a rectangular room with various dimensions and features:

- Vertical Dimensions:** The left wall has a height of 6". The right wall has a height of 1'-6".
- Horizontal Dimensions:** The top and bottom walls both have a width of 1'-0".
- Central Vertical Line:** A vertical line labeled "RIDGE IN VENT" runs through the center of the room.
- Valley:** A diagonal line labeled "VALLEY" runs from the bottom-left corner towards the center.
- Ridge:** A horizontal line labeled "RIDGE" runs along the bottom edge of the room.
- Vent Locations:** There are four arrows pointing away from the central ridge line, each labeled "8:12", indicating the direction of air flow for ridge vents.
- HP:** A small circle labeled "HP" is located near the bottom-left corner.
- Dimensions:** Specific dimensions are marked at the bottom: 1'-0", 1'-6", 1'-6", 1'-6", 1'-6", 1'-0", and 1'-6".

# ROOF PLAN

SQUARE FOOTAGE CALC'S.	
MAIN LEVEL:	1811 SQ FT
FIN. BASEMENT:	N/A SQ FT
TOTAL FINISHED:	1811 SQ FT
GARAGE:	489 SQ FT
FRONT PORCH:	54 SQ FT

REVISION LOG:	
ISSUED:	1-27-25
DRAWN BY:	MS
1) CONTRACT SET	
INITIALS:	X-X-XX
2) REVISION	
INITIALS:	X-X-XX
3) STRUCT. SIGN OFF	
INITIALS:	X-X-XX
4) SELECTIONS	
INITIALS:	X-X-XX
5) INTERNAL AUDIT	
INITIALS:	X-X-XX
6) INTERNAL PRECON	
INITIALS:	X-X-XX
7) HPBO	
INITIALS:	X-X-XX
8) REVISION	
INITIALS:	X-X-XX
9) REVISION	
INITIALS:	X-X-XX
10) REVISION	
INITIALS:	X-X-XX
11) REVISION	
INITIALS:	X-X-XX
12) REVISION	
INITIALS:	X-X-XX
13) REVISION	
INITIALS:	X-X-XX
13) REVISION	
INITIALS:	X-X-XX
14) REVISION	

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**RILEY**  
PROJECT NUMBER:  
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**4C OF 7**