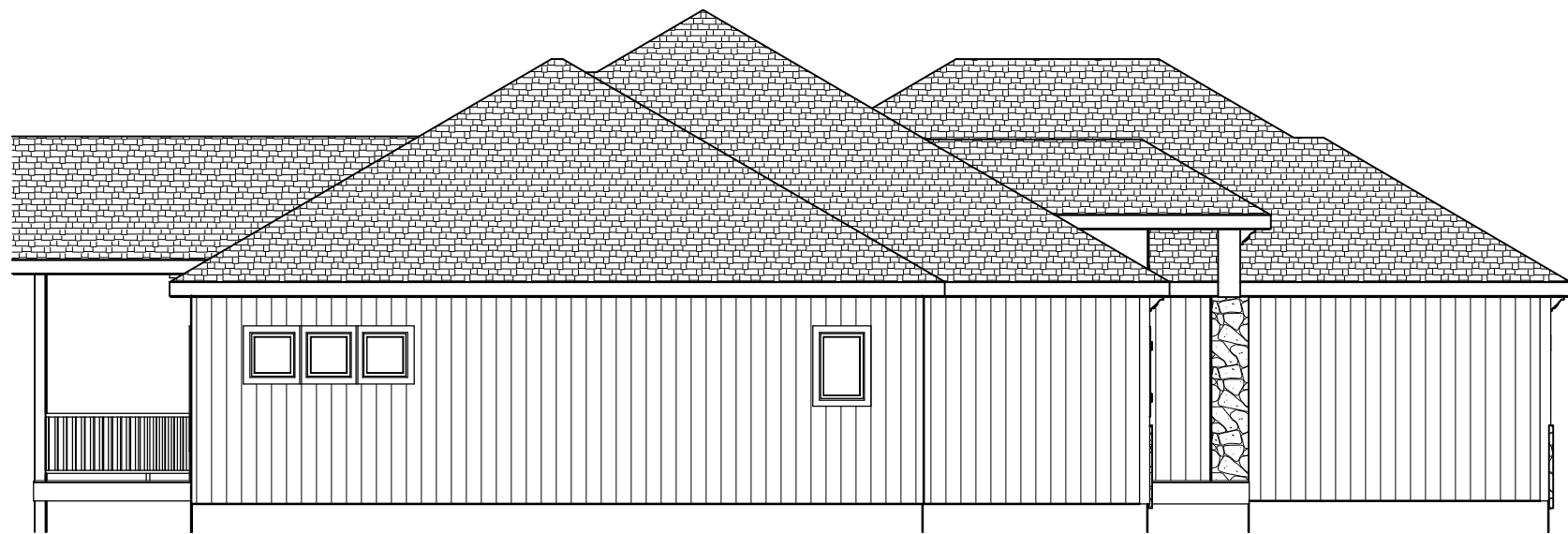


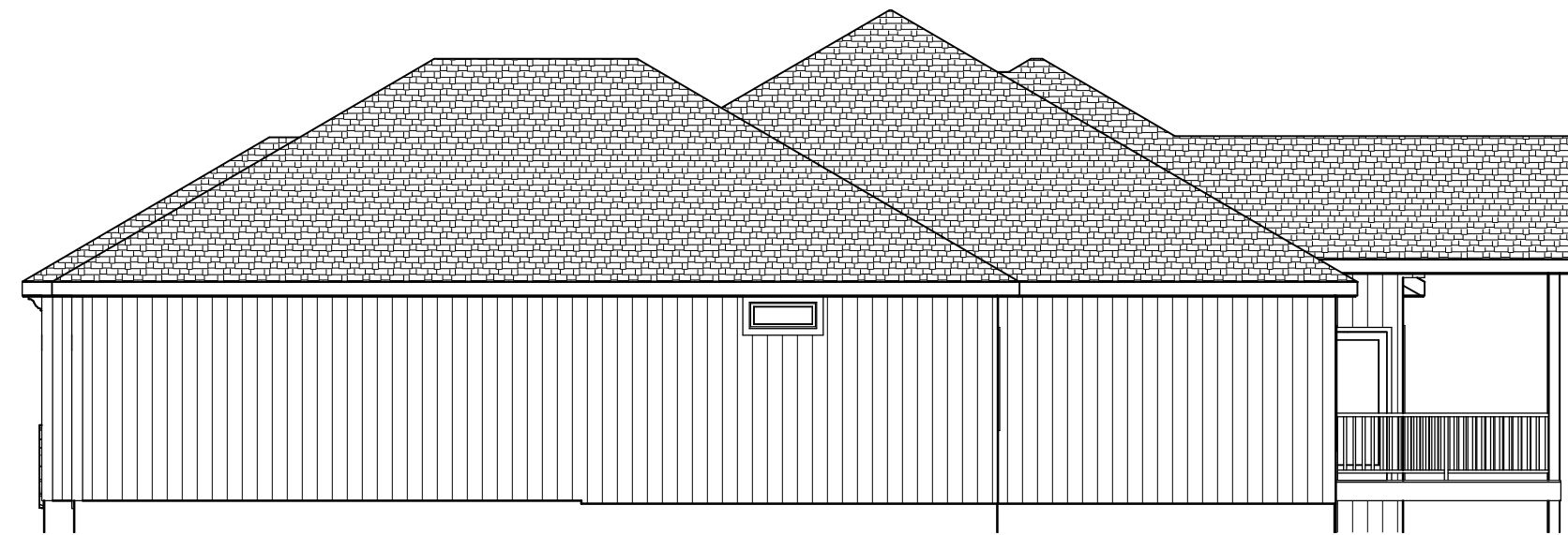


FRONT EL.
STUCCO
AND STONE



LEFT EL.
1/8" = 1'-0"

3 SIDES LP PANEL SIDING



RIGHT EL.
1/8" = 1'-0"



REAR EL.
1/8" = 1'-0"

BUILD IN ACCORDANCE WITH
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LOCAL CODES.

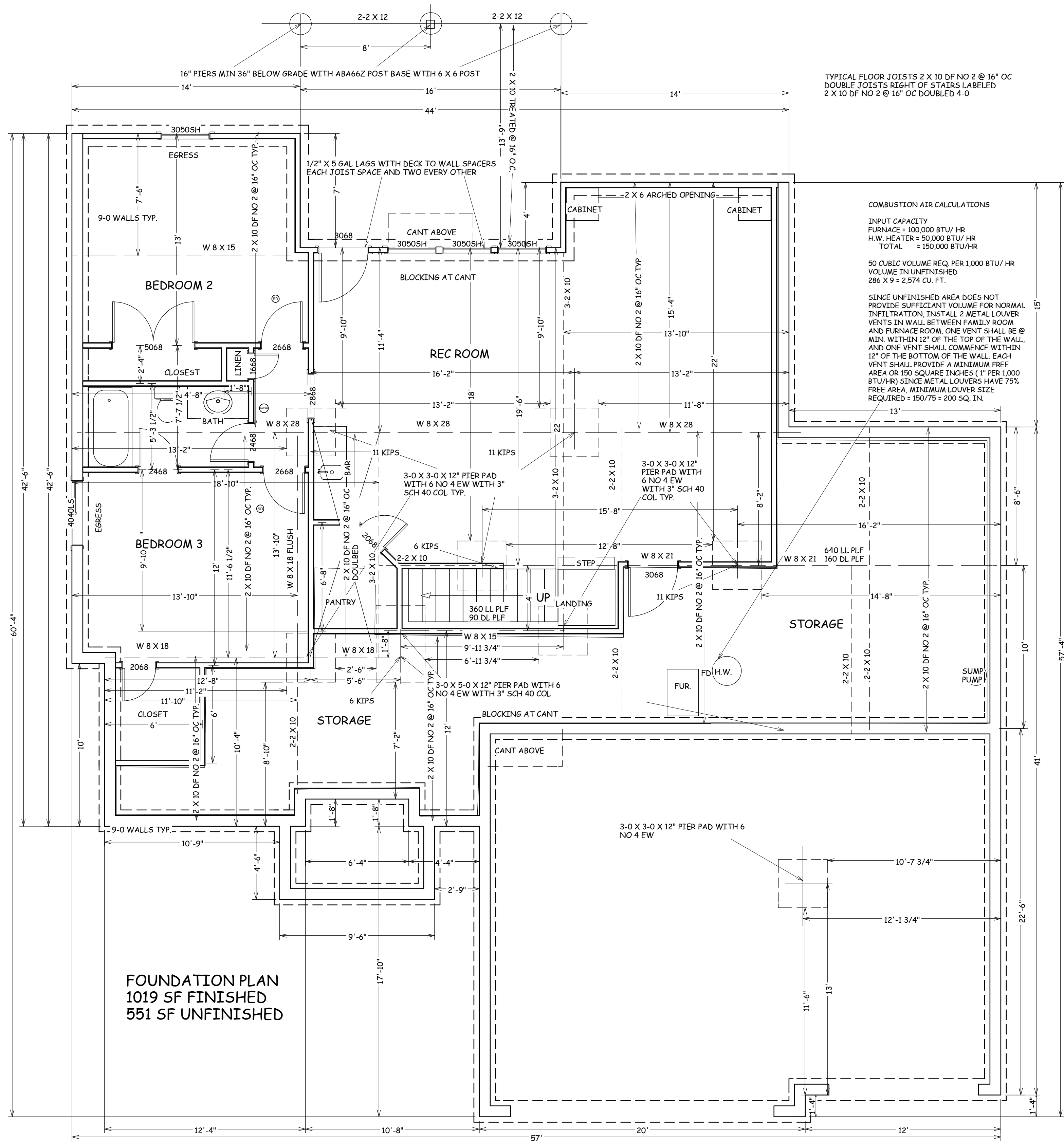
NICK ZVACEK HOMES
BAXTON
LOT 80 SUMMIT VIEW FARMS
2319 SW SERENA PLACE
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
7-25-23

PLAN NO.
4071

SHEET NO.
1 OF 6



TYPICAL FLOOR JOISTS 2 X 10 DF NO 2 @ 16" OC
DOUBLE JOISTS RIGHT OF STAIRS LABELED
2 X 10 DF NO 2 @ 16" OC DOUBLED 4-0

COMBUSTION AIR CALCULATIONS

INPUT CAPACITY
FURNACE = 100,000 BTU/ HR
H.W. HEATER = 50,000 BTU/ HR
TOTAL = 150,000 BTU/HR

50 CUBIC VOLUME REQ. PER 1,000 BTU/ HR
VOLUME IN UNFINISHED
 $286 \times 9 = 2,574 \text{ CU. FT.}$

SINCE UNFINISHED AREA DOES NOT PROVIDE SUFFICIENT VOLUME FOR NORMAL INFILTRATION, INSTALL 2 METAL LOUVER VENTS IN WALL BETWEEN FAMILY ROOM AND FURNACE ROOM. ONE VENT SHALL BE @ MIN. WITHIN 12" OF THE TOP OF THE WALL, AND ONE VENT SHALL COMMENCE WITHIN 12" OF THE BOTTOM OF THE WALL. EACH VENT SHALL PROVIDE A MINIMUM FREE AREA OF 150 SQUARE INCHES (1" PER 1000 BTU/HR) SINCE METAL LOUVERS HAVE 75% FREE AREA, MINIMUM LOUVER SIZE REQUIRED = 150/75 = 200 SQ. IN.

**BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.**

NICK ZVACEK HOMES
BAXTON
LOT 80 SUMMIT VIEW FARMS
2319 SW SERENA PLACE
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
7-25-23

PLAN NO.

4071

SHEET NO.

2 OF 6

12" SOFFITS TYP.

Architectural floor plan of a two-story house, showing the layout of rooms and the structural framework for the roof. The plan includes a kitchen, living area, dining area, two bedrooms, a bathroom, and a central staircase. Dashed lines represent the roof structure, with labels 'PURLIN' and 'MAX. RAFTERS SPAN' indicating key structural elements. A '7:12' slope is marked on multiple trusses.

4 OF 6

DUCTWORK NEEDS TO HAVE AN R-8 VALUE



5 OF 6

| EXPOSURE CATEGORY B 30-FOOT MEAN ROOF HEIGHT 16-FOOT WALL HEIGHT 2 BRACED WALL LINES | | MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE ^a | | | | |
|---|----------------|--|-------------------------|-----------|---|-----------------------------------|
| Ultimate Design Wind Speed (mph) | Story Location | Braced Wall Line Spacing ^b (feet) | Method LIB ^c | Method GB | Methods DWB, WSP, SFB, PFB, PCP, HPS, BV-WSP, ABW, PFH, PCF, CS-SFB | Methods CS-WSP, CS-Q, CS-PF |
| ≤ 115 | | 10 | 3.5 | 3.5 | 2.0 | 2.0 |
| | | 20 | 6.5 | 6.5 | 3.5 | 3.5 |
| | | 30 | 9.5 | 9.5 | 5.5 | 4.5 |
| | | 40 | 12.5 | 12.5 | 7.0 | 6.0 |
| | | 50 | 15.0 | 15.0 | 9.0 | 7.5 |
| | | 60 | 18.0 | 18.0 | 10.5 | 9.0 |
| | | 10 | 7.0 | 7.0 | 4.0 | 3.5 |
| | | 20 | 12.5 | 12.5 | 7.5 | 6.5 |
| | | 30 | 18.0 | 18.0 | 10.5 | 9.0 |
| | | 40 | 23.5 | 23.5 | 13.5 | 11.5 |
| | | 50 | 29.0 | 29.0 | 16.5 | 14.0 |
| | | 60 | 34.5 | 34.5 | 20.0 | 17.0 |
| | | 10 | NP | 10.0 | 6.0 | 5.0 |
| | | 20 | NP | 18.5 | 11.0 | 9.0 |
| | | 30 | NP | 27.0 | 15.5 | 13.0 |
| | | 40 | NP | 35.0 | 20.0 | 17.0 |
| | | 50 | NP | 43.0 | 24.5 | 21.0 |
| | | 60 | NP | 51.0 | 29.0 | 25.0 |

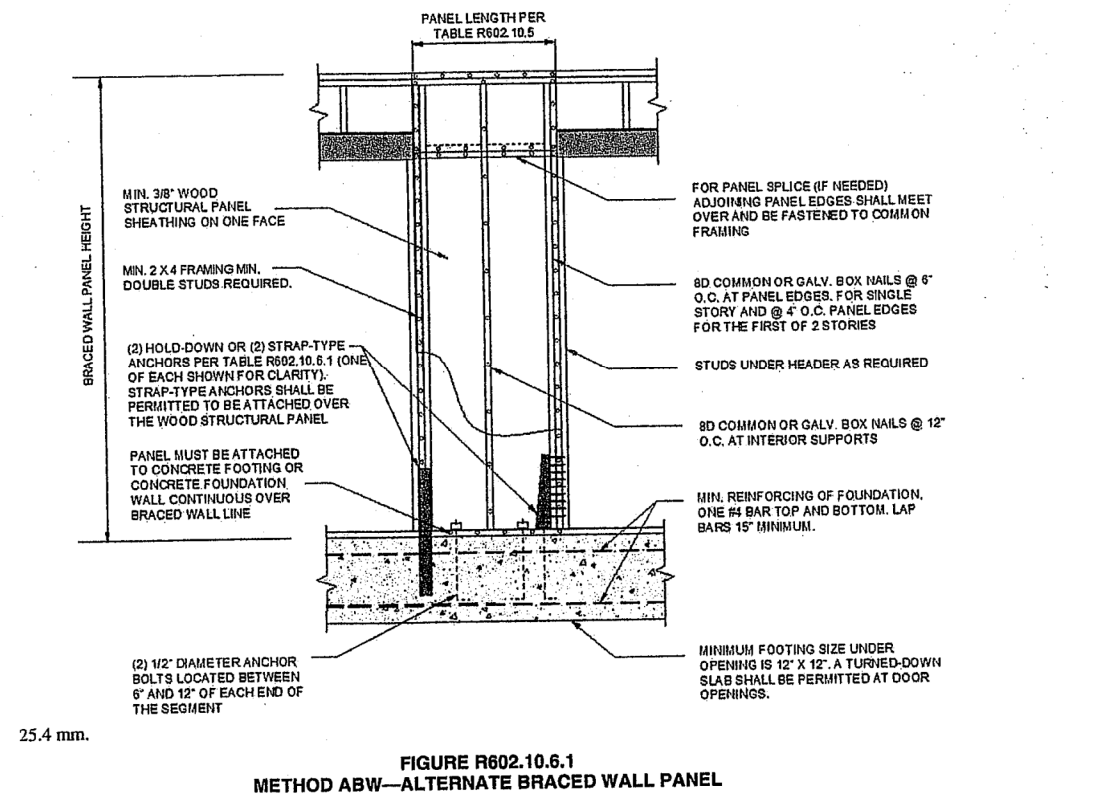


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

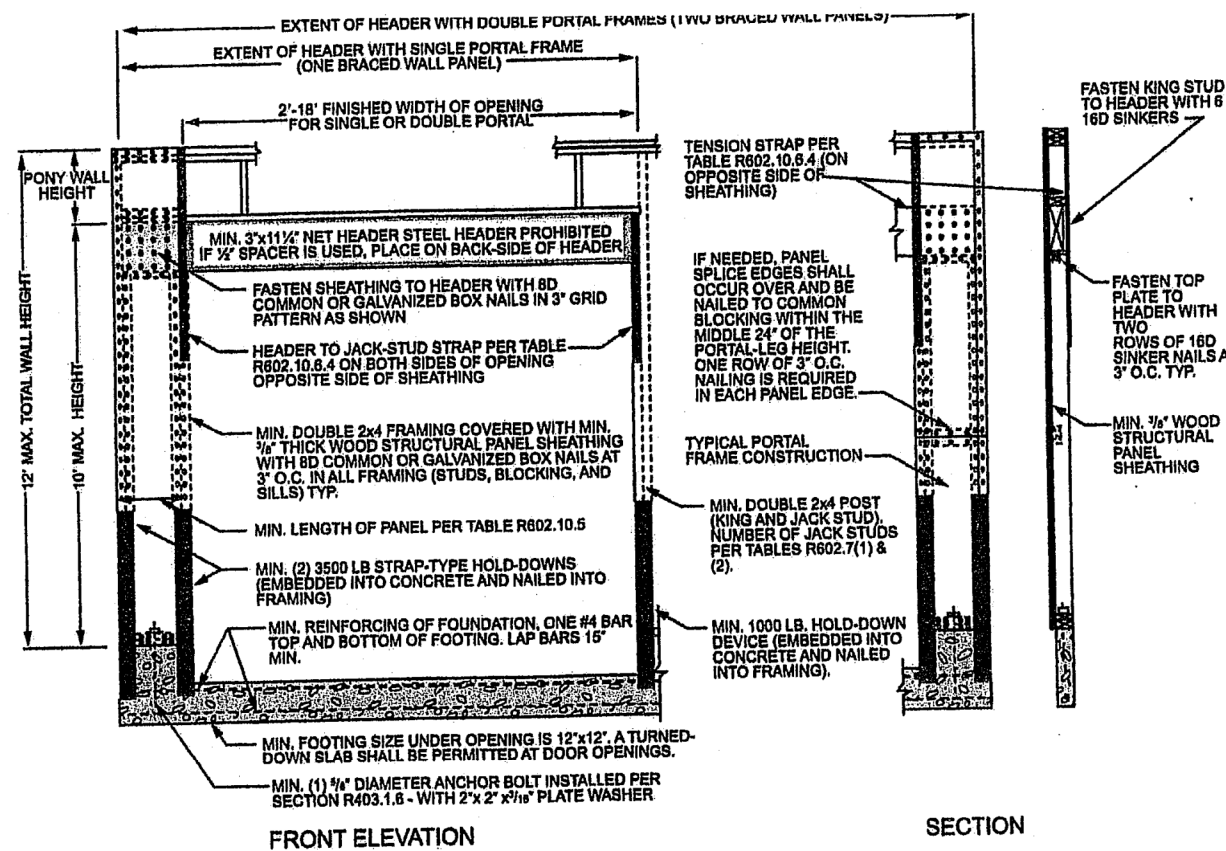


FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

| METHODS, MATERIAL | MINIMUM THICKNESS | FIGURE | CONNECTION CRITERIA ^a | |
|------------------------------|--|--------|---|---|
| | | | Fasteners | Spacing |
| Intermittent Bracing Methods | LIB Let-in bracing | | Wood: 2-8d common nails or 3-8d (2 1/2\"/> | Wood: per stud and top and bottom plates Metal: per manufacturer |
| | DWB Diagonal wood boards | | 2-8d (2 1/2\"/> | Per stud |
| | WSP Wood structural panel (See Section R604) | | Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2) | 6\"/> |
| | BV-WSP ^b Wood structural panels with stone or masonry veneer (See Section R602.10.6.5) | | 8d common (2 1/2\"/> | 4\"/> |
| | SFB Structural fiberboard sheathing | | 1 1/2\"/> | 3\"/> |
| | GB Gypsum board | | Nails or screws per Table R602.3(1) for exterior locations Nails or screws per Table R702.3.5 for interior locations | For all braced wall panel locations: 7\"/> |
| | PBS Particleboard sheathing (See Section R605) | | For 1/2\"/> | 3\"/> |
| | PCP Portland cement plaster | | 1 1/2\"/> | 6\"/> |
| | HPS Hardboard panel siding | | 0.092\"/> | 4\"/> |
| | ABW Alternate braced wall | | See Section R602.10.6.1 | See Section R602.10.6.1 |

| METHOD (See Table R602.10.4) | MINIMUM LENGTH ^a (inches) | | | | | CONTRIBUTING LENGTH (inches) |
|--------------------------------------|---|--------|---------|---------|---------|--|
| | 8 feet | 9 feet | 10 feet | 11 feet | 12 feet | |
| DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP | 48 | 48 | 48 | 53 | 58 | Actual ^b |
| GB | 48 | 48 | 48 | 53 | 58 | Double sided = Actual Single sided = 0.5 x Actual |
| LIB | 55 | 62 | 69 | NP | NP | Actual ^b |
| ABW | SDC A, B and C, ultimate design wind speed < 140 mph | 28 | 32 | 34 | 38 | 42 |
| | SDC D ₁ , D ₂ and D ₃ , ultimate design wind speed < 140 mph | 32 | 32 | 34 | NP | NP |
| CS-G | Adjacent clear opening height (inches) | 24 | 27 | 30 | 33 | 36 |
| CS-WSP, CS-SFB | ≤ 64 | 24 | 27 | 30 | 33 | 36 |
| | 68 | 26 | 27 | 30 | 33 | 36 |
| | 72 | 27 | 27 | 30 | 33 | 36 |
| | 76 | 30 | 29 | 30 | 33 | 36 |
| | 80 | 32 | 30 | 30 | 33 | 36 |
| | 84 | 35 | 32 | 32 | 33 | 36 |
| | 88 | 38 | 35 | 33 | 33 | 36 |
| | 92 | 43 | 37 | 35 | 35 | 36 |
| | 96 | 48 | 41 | 38 | 36 | 36 |
| | 100 | — | 44 | 40 | 38 | 38 |
| | 104 | — | 49 | 43 | 40 | 39 |
| | 108 | — | 54 | 46 | 43 | 41 |
| | 112 | — | — | 50 | 45 | 43 |
| | 116 | — | — | 55 | 48 | 45 |
| | 120 | — | — | 60 | 52 | 48 |
| | 124 | — | — | — | 56 | 51 |
| | 128 | — | — | — | 61 | 54 |
| | 132 | — | — | — | 66 | 62 |
| | 136 | — | — | — | — | 66 |
| | 140 | — | — | — | — | 72 |
| | 144 | — | — | — | — | 72 |
| METHOD (See Table R602.10.4) | 8 feet | 9 feet | 10 feet | 11 feet | 12 feet | 48 |
| | Supporting roof only | 16 | 16 | 16 | Note c | |
| | Supporting one story and roof | 24 | 24 | 24 | Note c | |
| | PFH | 24 | 27 | Note d | Note e | |
| CS-PF | SDC A, B and C | 16 | 18 | 20 | Note e | 1.5 x Actual ^b |
| | SDC D ₁ , D ₂ and D ₃ | 16 | 18 | 20 | Note e | Actual ^b |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.
NP = Not Permitted.
a. Linear interpolation shall be permitted.
b. Use the actual length where it is greater than or equal to the minimum length.
c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.
d. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.
e. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.

| METHODS, MATERIAL | MINIMUM THICKNESS | FIGURE | CONNECTION CRITERIA ^a | |
|------------------------------|--|--------|---|-------------------------|
| | | | Fasteners | Spacing |
| Intermittent Bracing Methods | PFH Portal frame with hold-downs | | See Section R602.10.6.2 | See Section R602.10.6.2 |
| | PFH Portal frame at garage | | See Section R602.10.6.3 | See Section R602.10.6.3 |
| Continuous Sheathing Methods | CS-WSP Continuously sheathed wood structural panel | | Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2) | 6\"/> |
| | CS-Q ^a Continuously sheathed wood structural panel adjacent to garage openings | | See Method CS-WSP | See Method CS-WSP |
| | CS-PF ^a Continuously sheathed portal frame | | See Section R602.10.6.4 | See Section R602.10.6.4 |
| | CS-SFB ^a Continuously sheathed structural fiberboard | | 1 1/2\"/> | 3\"/> |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m², 1 mile per hour = 0.447 m/s.
a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₁, D₂, and D₃.
b. Applies to panels next to garage door opening where supporting gable and wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D₁, D₂, and D₃ roof covering dead load shall not exceed 3 psf.
c. Garage openings adjacent to a Method CS-Q panel shall be provided with a header in accordance with Table R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-Q panel.
d. Method CS-SFB does not apply in Seismic Design Categories D₁, D₂, and D₃.
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₃ only.

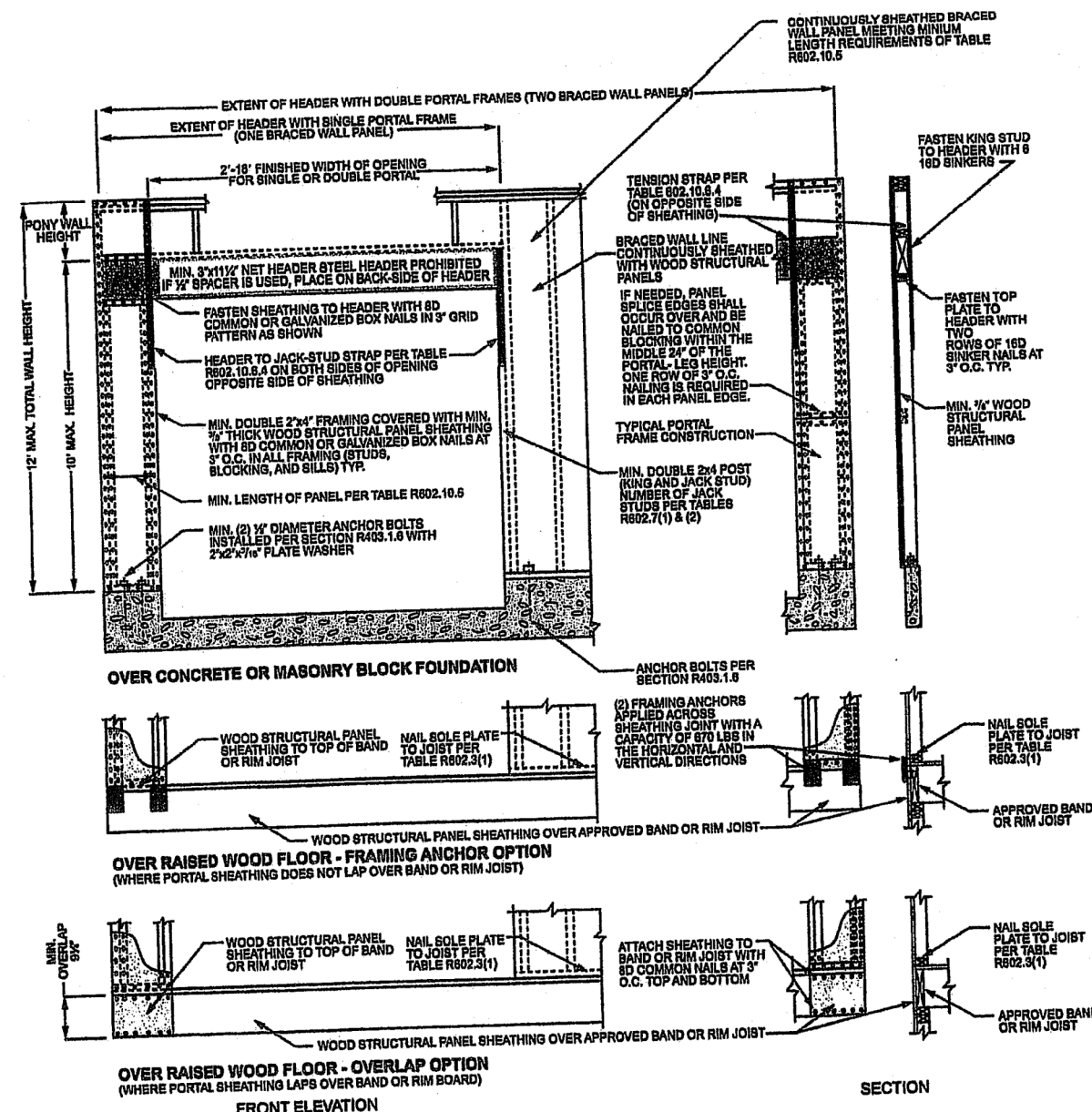


FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

NICK ZVACEK HOMES
BAXTON
LOT 80 SUMMIT VIEW FARMS
2319 SW SERENA PLACE
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
7-25-23

PLAN NO.

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SHEET NO.

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