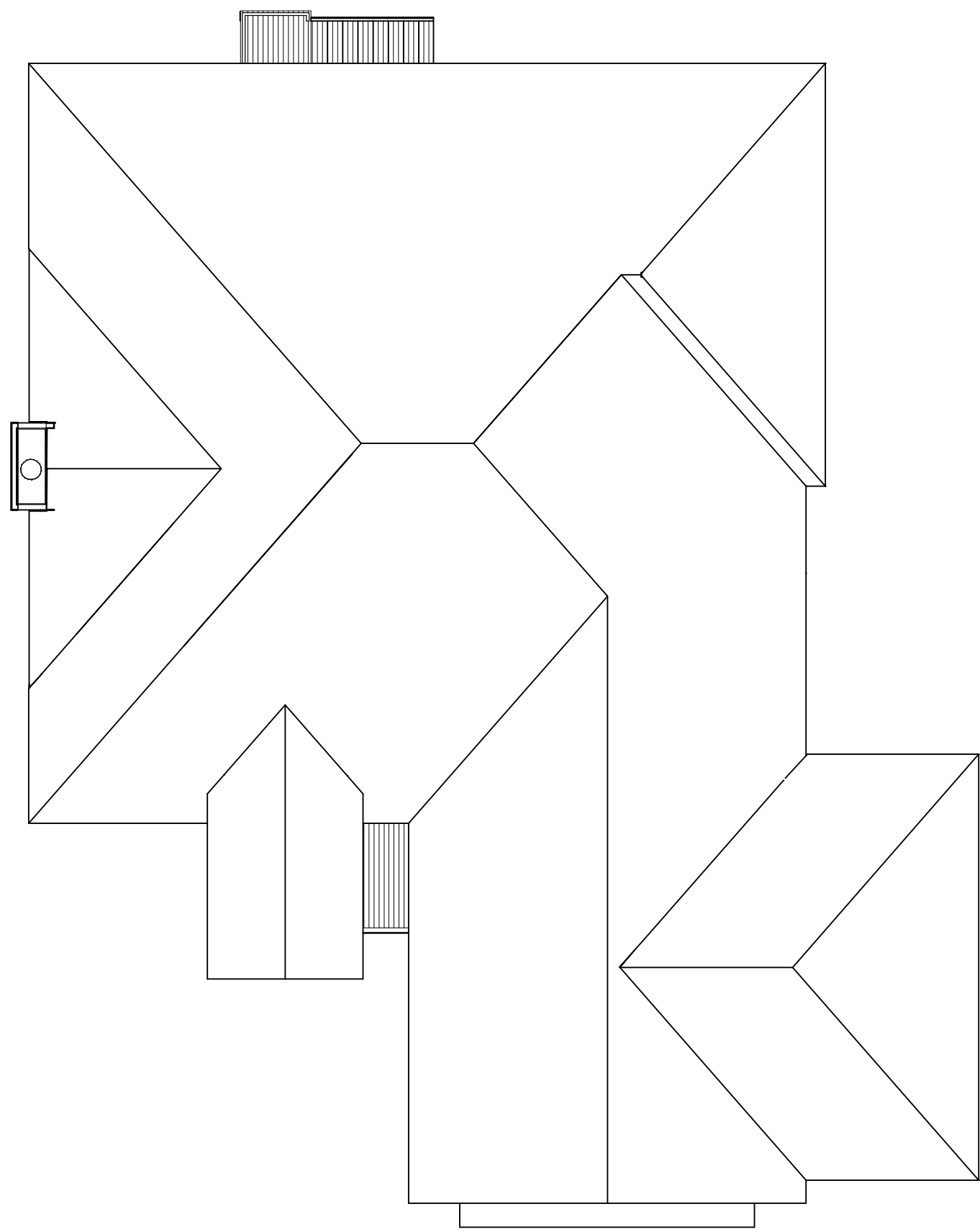
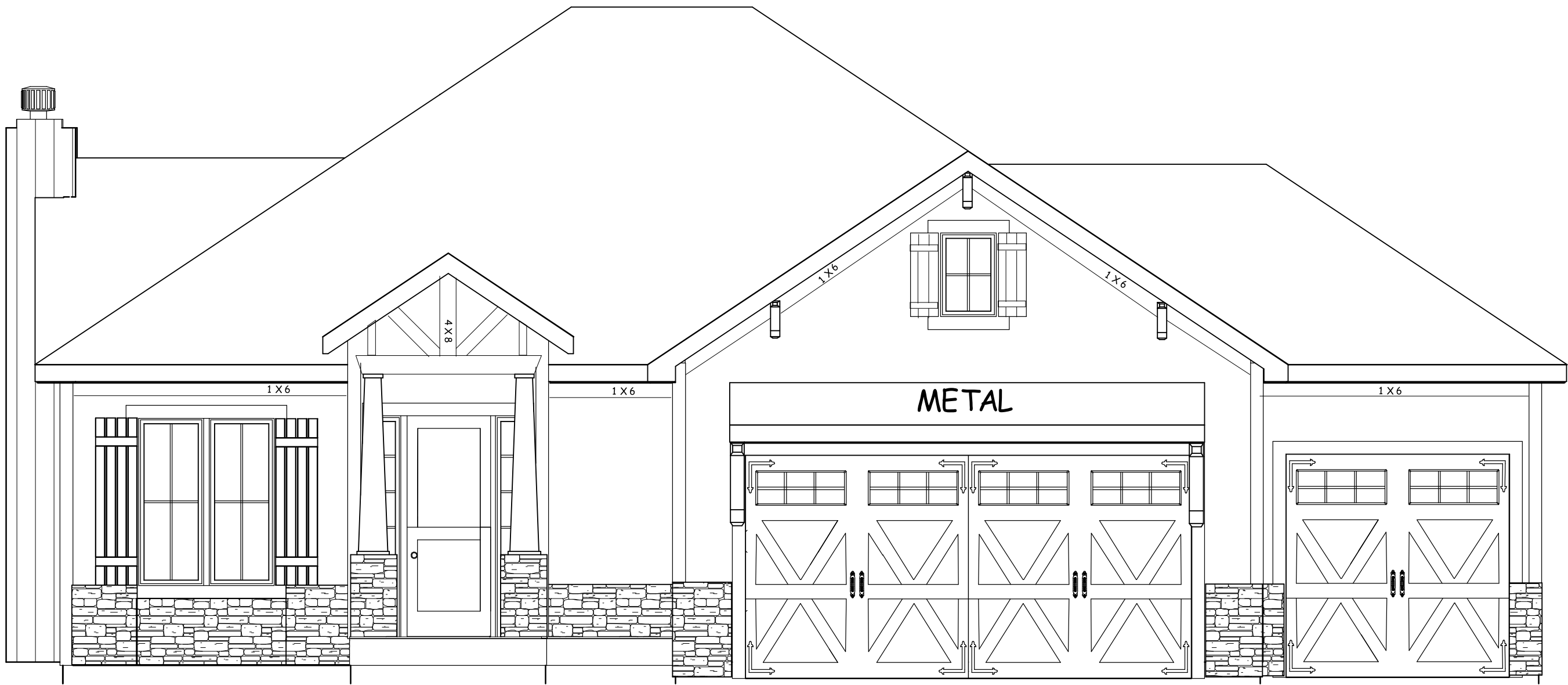


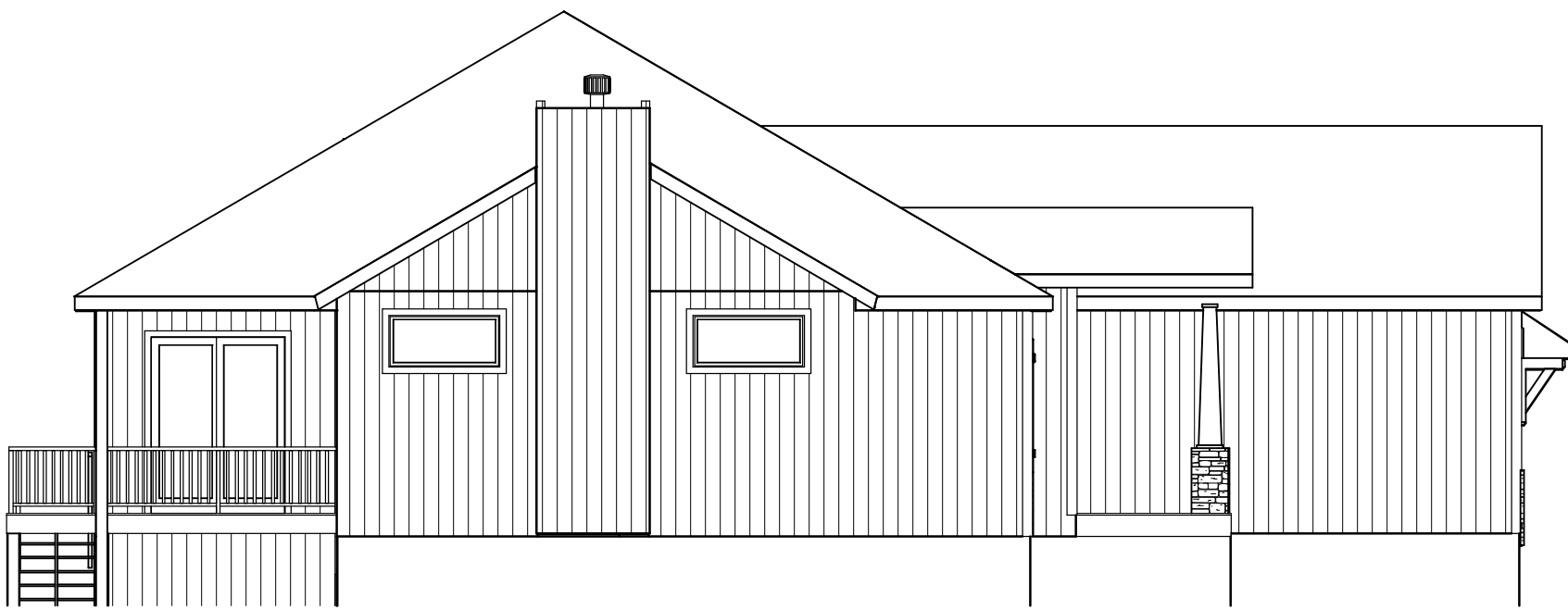


ROOF PLAN  
1/8 = 1-0  
SIDE TO SIDE 8/12  
FRONT TO BACK 7/12

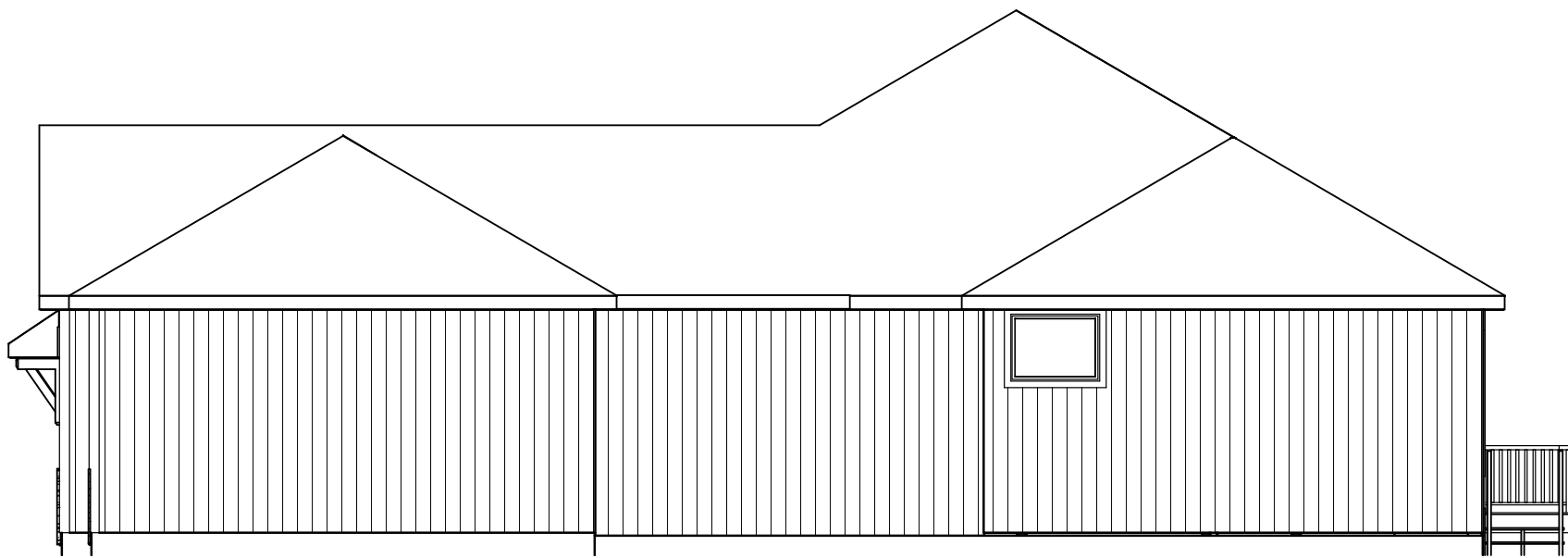
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.  
HIPS AND RIDGERS 2 X 8 DF NO 2 TYP.



FRONT EL.  
STUCCO & STONE



LEFT EL.  
1/8 = 1-0



RIGHT EL.  
1/8 = 1-0

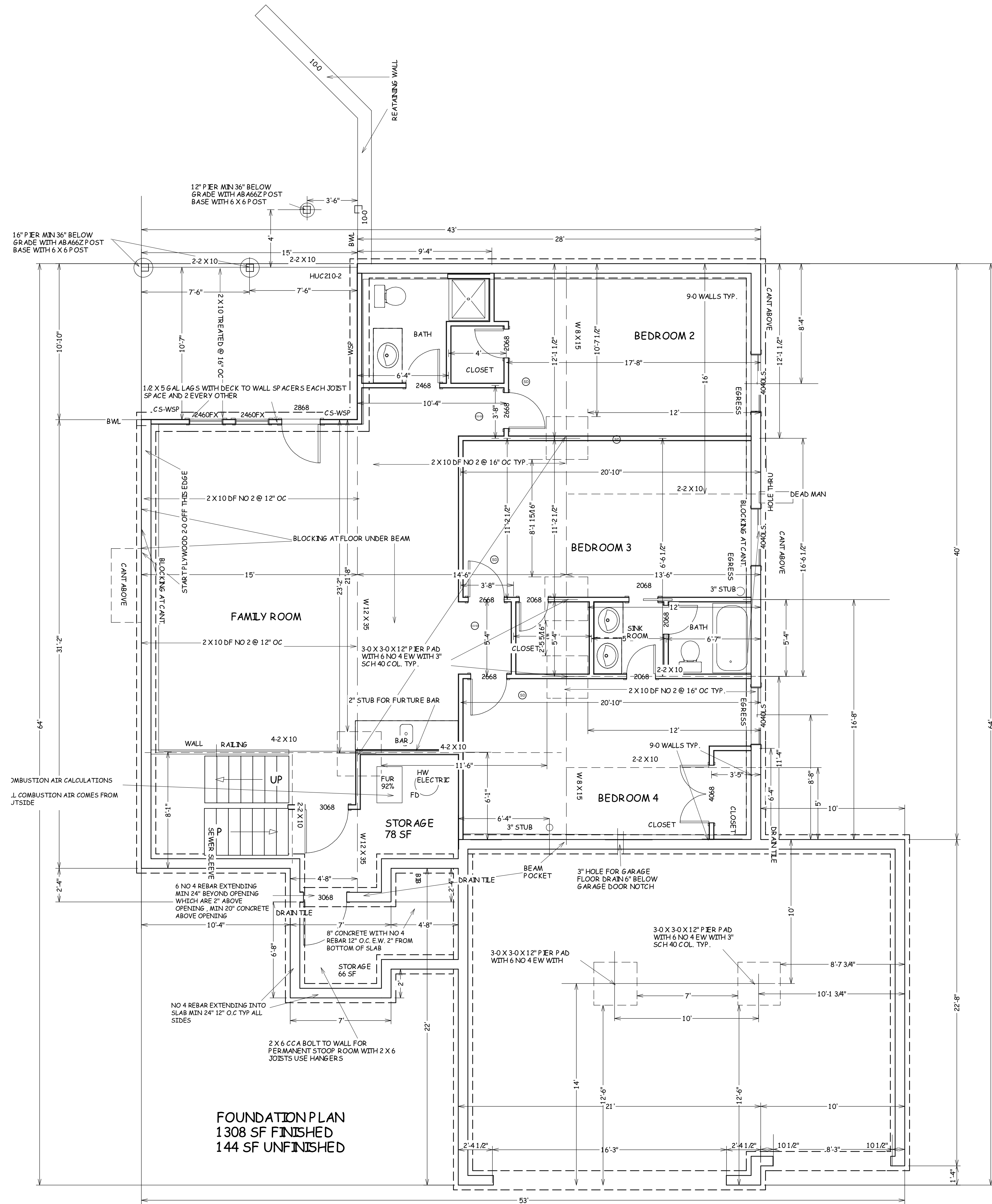


REAR EL.  
1/8 = 1-0



|                                                                                        |  |
|----------------------------------------------------------------------------------------|--|
| BUILD IN ACCORDANCE WITH<br>2018 INTERNATIONAL<br>RESIDENTIAL CODE AND<br>LOCAL CODES. |  |
| LOT 1116 MONTICELLO<br>4733 NE FREEHOLD DR<br>LEE SUMMIT MO                            |  |
| TRUARK HOMES<br>KYLE II                                                                |  |
| SCALE<br>1/4" = 1-0                                                                    |  |
| DATE<br>4-18-21                                                                        |  |
| PLAN NO.<br>3483                                                                       |  |
| SHEET NO.<br>1 OF 5                                                                    |  |





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

LOT 116 MONTICELLO  
4733 NE FREEHOLD DR  
LEE SUMMIT MO

TRUMARK HOMES  
KYLE II

SCALE  
1/4" = 1'-0

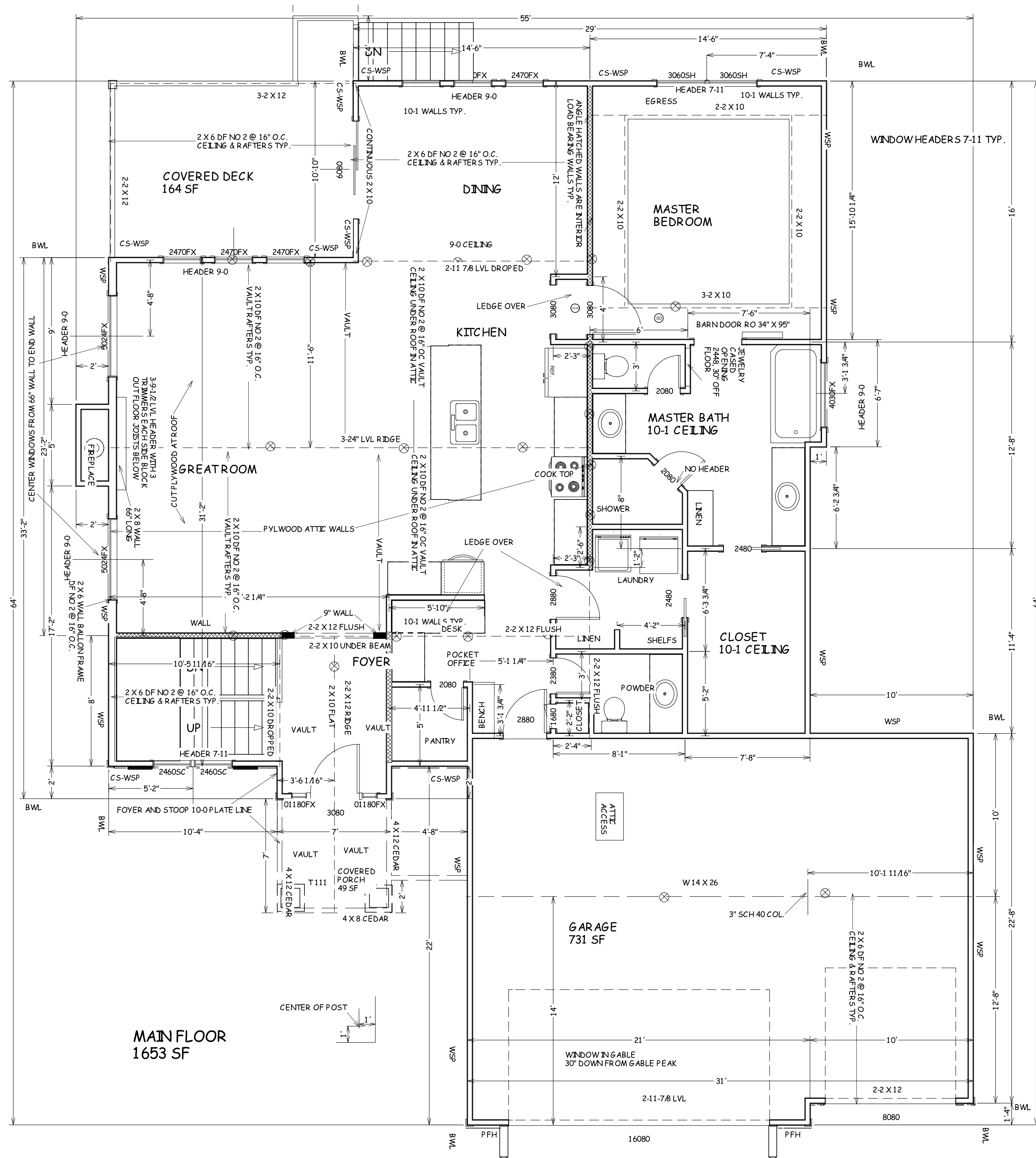
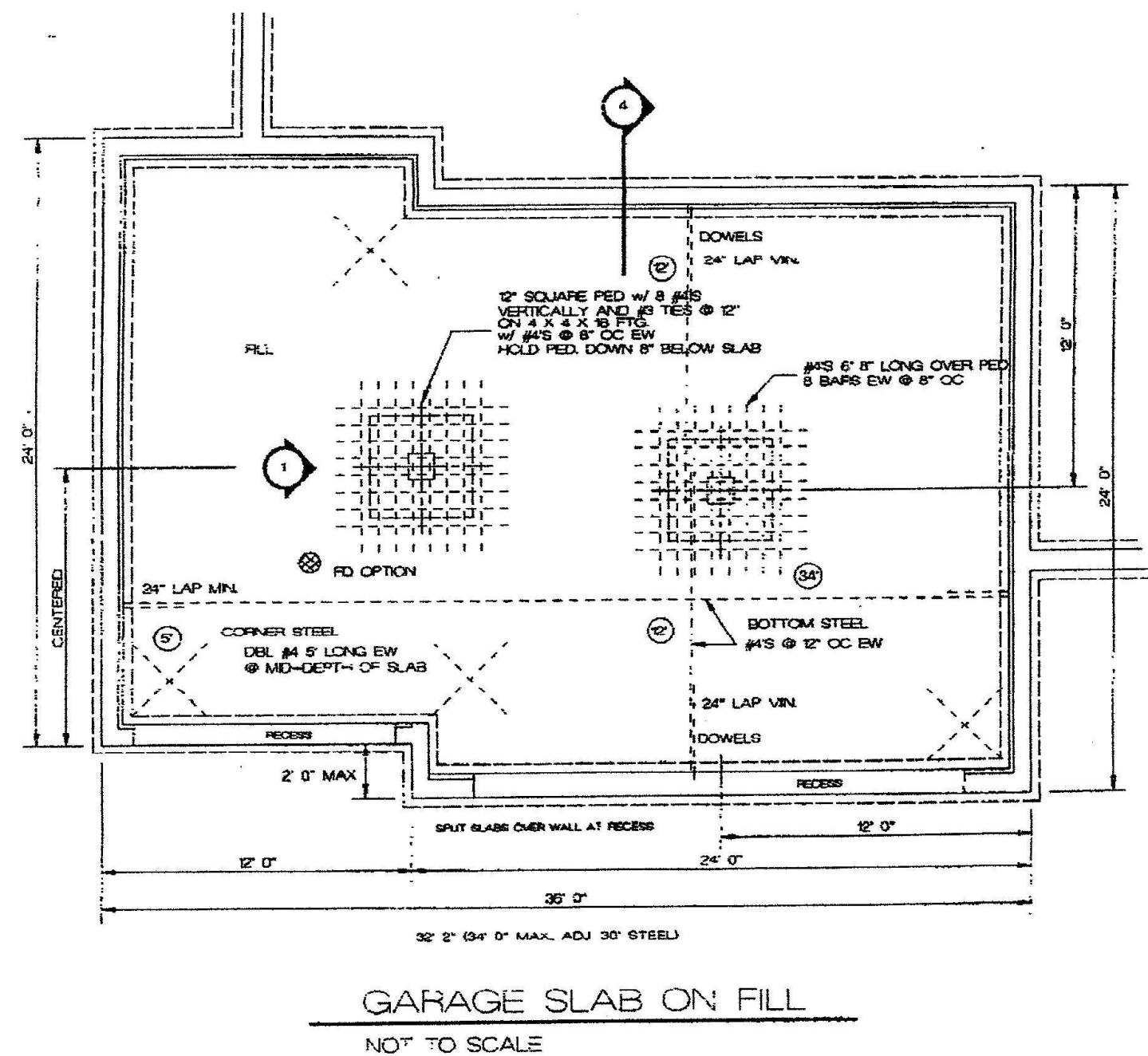
DATE  
4-18-21

PLAN NO.  
3483

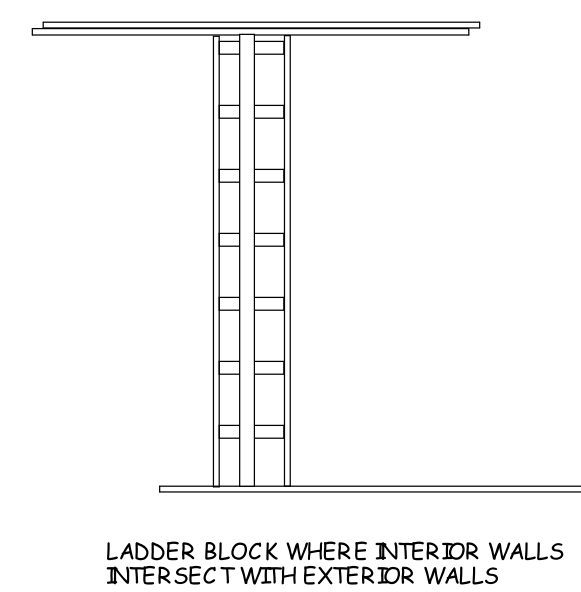
SHEET NO.

2 OF 5





TYPICAL EXTERIOR CORNER FILE CORNER WITH STUDS



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

LOT 1116 MONTICELLO  
4733 NE FREEHOLD DR  
LEE SUMMIT MO

TRUMARK HOMES  
KYLE II

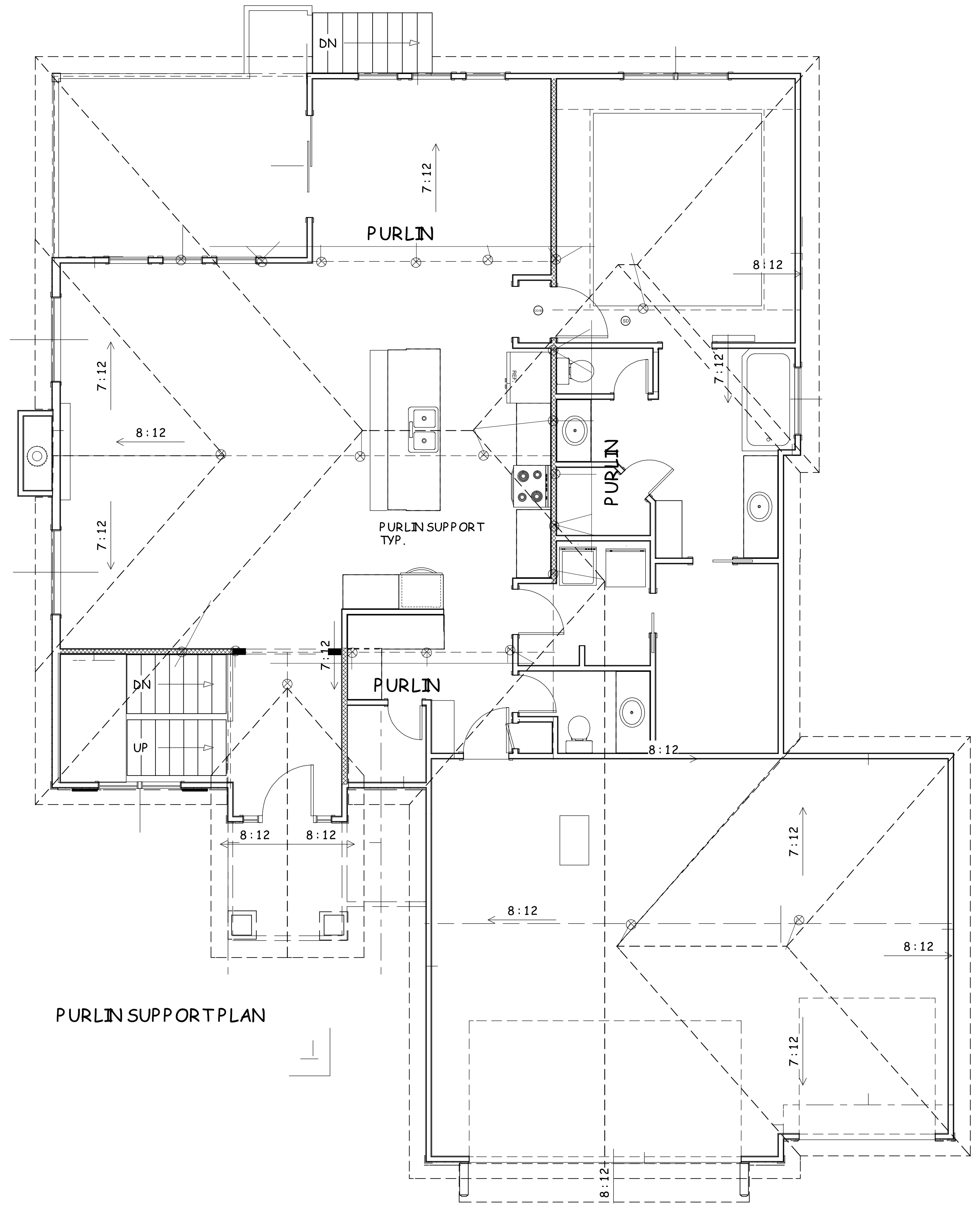
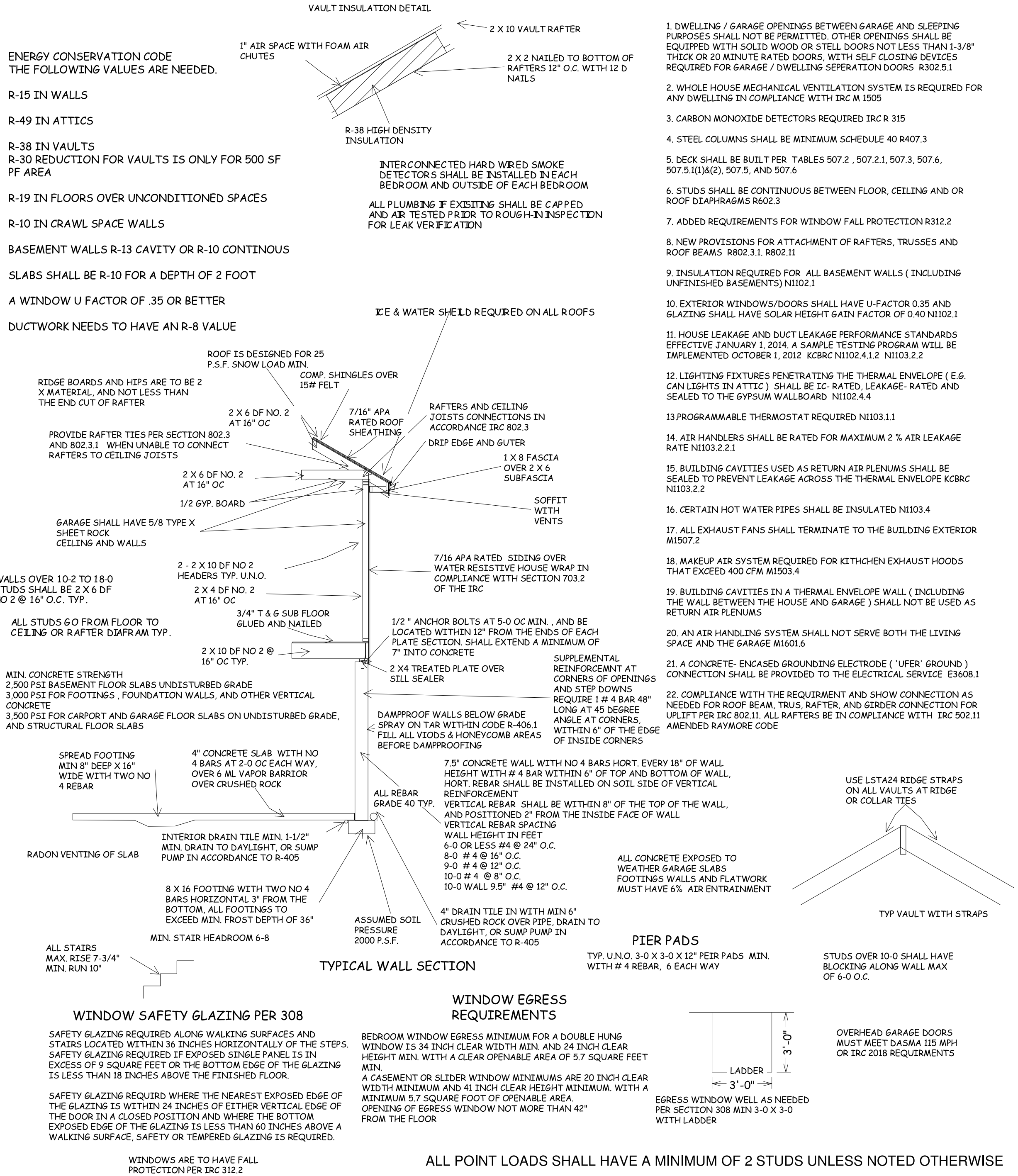
SCALE  
1/4" = 1'-0

DATE  
4-18-21

PLAN NO.  
3483

SHEET NO.  
3 OF 5







| EXPOSURE CATEGORY B<br>10-FOOT MEAN ROOF HEIGHT<br>10-FOOT WALL HEIGHT<br>2 BRACED WALL LINES |                | MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS<br>REQUIRED ALONG EACH BRACED WALL LINE <sup>a</sup> |                         |           |                                                                                 |                                   |
|-----------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------|-------------------------|-----------|---------------------------------------------------------------------------------|-----------------------------------|
| Ultimate<br>Design Wind<br>Speed<br>(mph)                                                     | Story Location | Braced Wall Line<br>Spacing <sup>b</sup><br>(feet)                                                     | Method LIB <sup>c</sup> | Method GB | Methods<br>DWB, WSP, SFB,<br>PBS, PCP, HPS,<br>BV-WSP, ABW, PFF,<br>PFG, CS-SFB | Methods<br>CS-WSP, CS-O,<br>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                              |

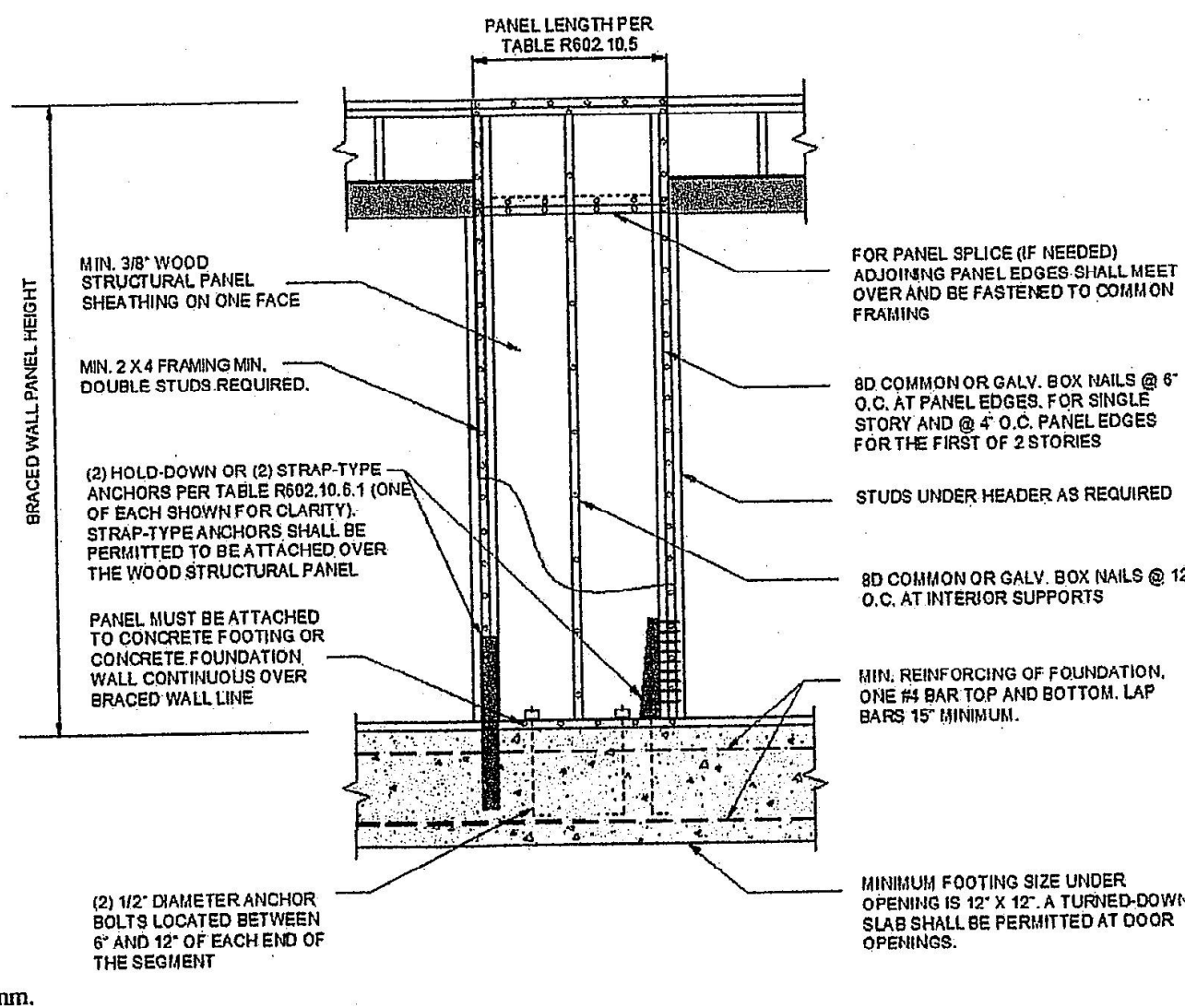
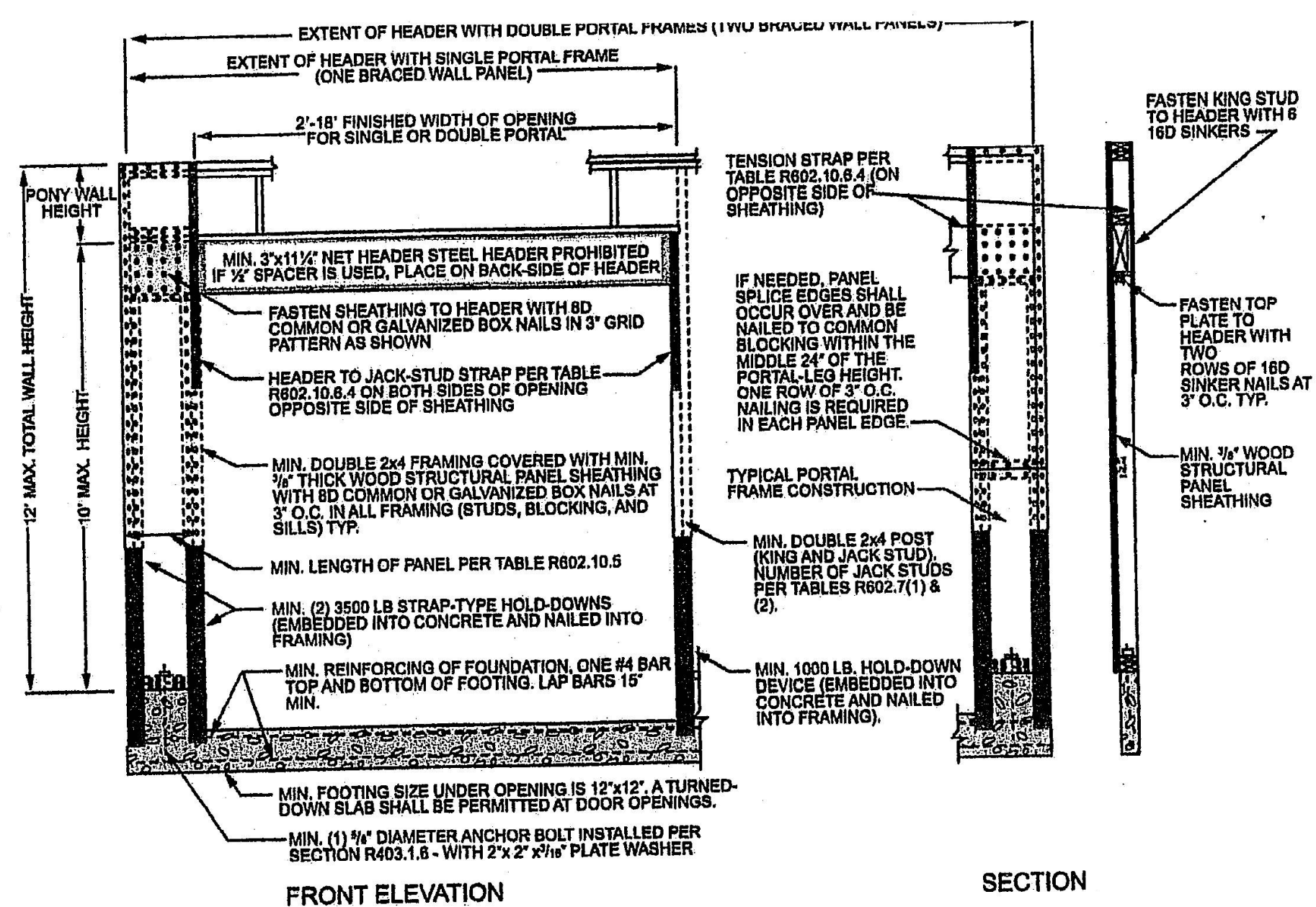
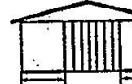
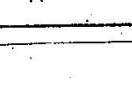


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL



4 mm, 1 foot = 304.8 mm.

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

| TABLE R602.10.4<br>BRACING METHODS |                                                                                                      |                                                                                       |                                                                                     |                                                                                                                                    |                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| METHODS, MATERIAL                  | MINIMUM THICKNESS                                                                                    | FIGURE                                                                                | CONNECTION CRITERIA <sup>a</sup>                                                    |                                                                                                                                    |                                                                                          |
|                                    |                                                                                                      |                                                                                       | Fasteners                                                                           | Spacing                                                                                                                            |                                                                                          |
| Intermittent Bracing Methods       | LIB<br>Let-in-bracing                                                                                | 1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing |  | Wood: 2-8d common nails or 3-8d (2 1/2" long x 0.113" dia.) nails<br>Metal strap: per manufacturer                                 | Wood: per stud and top and bottom plates<br>Metal: per manufacturer                      |
|                                    | DWB<br>Diagonal wood boards                                                                          | 1/2" (1" nominal) for maximum 24" stud spacing                                        |  | 2-8d (2 1/2" long x 0.113" dia.) nails or 2 - 1 1/4" long staples                                                                  | Per stud                                                                                 |
|                                    | WSP<br>Wood structural panel (See Section R604)                                                      | 3/4"                                                                                  |  | Exterior sheathing per Table R602.3(3)<br>Interior sheathing per Table R602.3(1) or R602.3(2)                                      | 6" edges 12" field<br>Varies by fastener                                                 |
|                                    | IV-WSP <sup>b</sup><br>Wood structural panels with stone or masonry veneer (See Section R602.10.6.5) | 1/4"                                                                                  | See Figure R602.10.6.5                                                              | 8d common (2 1/2" x 0.131) nails                                                                                                   | 4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts         |
|                                    | SFB<br>Structural fiberboard sheathing                                                               | 1/2" or 2 1/8" for maximum 16" stud spacing                                           |  | 1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 1/4" long x 0.12" dia. (for 2 1/8" thick sheathing) galvanized roofing nails | 3" edges 6" field                                                                        |
|                                    | GB<br>Gypsum board                                                                                   | 1/2"                                                                                  |  | Nails or screws per Table R602.3(1) for exterior locations<br>Nails or screws per Table R702.3.5 for interior locations            | For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field |
|                                    | FBS<br>Particleboard sheathing (See Section R605)                                                    | 3/4" or 1 1/4" for maximum 16" stud spacing                                           |  | 2" (1/2" long x 0.131") dia. nails<br>For 7/8", 8d common (2 1/2" long x 0.131") dia. nails                                        | 3" edges 6" field                                                                        |
|                                    | PCP<br>Portland cement plaster                                                                       | See Section R703.7 for maximum 16" stud spacing                                       |  | 1 1/2" long, 11 gage, 7/8" dia. head nails or 7/4" long, 16 gage staples                                                           | 6" o.c. on all framing members                                                           |
|                                    | HPS<br>Hardboard panel siding                                                                        | 1/16" for maximum 16" stud spacing                                                    |  | 0.092" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs                                       | 4" edges 8" field                                                                        |
|                                    | ABW<br>Alternate braced wall                                                                         | 3/8"                                                                                  |  | See Section R602.10.6.1                                                                                                            | See Section R602.10.6.1                                                                  |

| METHOD<br>(See Table R602.10.4)                                                               | MINIMUM LENGTH <sup>a</sup><br>(inches) |        |         |         | CONTRIBUTING LENGTH<br>(inches) |
|-----------------------------------------------------------------------------------------------|-----------------------------------------|--------|---------|---------|---------------------------------|
|                                                                                               | 8 feet                                  | 9 feet | 10 feet | 11 feet |                                 |
| DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP                                                          | 48                                      | 48     | 48      | 53      | 58                              |
| GB                                                                                            | 48                                      | 48     | 48      | 53      | 58                              |
| LIB                                                                                           | 55                                      | 62     | 69      | NP      | NP                              |
| ABW                                                                                           | 28                                      | 32     | 34      | 38      | 42                              |
| SDC A, B and C, ultimate design wind speed < 140 mph                                          | 32                                      | 32     | 34      | NP      | NP                              |
| SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub> , ultimate design wind speed < 140 mph | 24                                      | 27     | 30      | 33      | 36                              |
| CS-G                                                                                          | 24                                      | 27     | 30      | 33      | 36                              |
| Adjacent clear opening height (inches)                                                        |                                         |        |         |         |                                 |
| ≤ 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      | 58                              |
| 136                                                                                           | —                                       | —      | —       | —       | 62                              |
| 140                                                                                           | —                                       | —      | —       | —       | 66                              |
| 144                                                                                           | —                                       | —      | —       | —       | 72                              |
| CS-WSP, CS-SFB                                                                                | 100                                     | —      | 44      | 40      | 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      | 58                              |
| 136                                                                                           | —                                       | —      | —       | —       | 62                              |
| 140                                                                                           | —                                       | —      | —       | —       | 66                              |
| 144                                                                                           | —                                       | —      | —       | —       | 72                              |
| PFF                                                                                           | 16                                      | 16     | 16      | Note c  | Note c                          |
| Supporting roof only                                                                          | 24                                      | 24     | 24      | Note c  | Note c                          |
| Supporting one story and roof                                                                 | 24                                      | 24     | 24      | Note c  | Note c                          |
| PFG                                                                                           | 16                                      | 18     | 20      | Note e  | Note e                          |
| SDC A, B and C                                                                                | 16                                      | 18     | 20      | Note e  | Note e                          |
| SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub>                                        | 16                                      | 18     | 20      | Note e  | Note e                          |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

NP = Not Permitted.

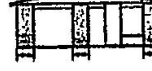
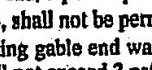
a. Linear interpolation shall be permitted.

b. Use the actual length where it is greater than or equal to the minimum length.

c. Maximum header height for PFF 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 PFG 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.

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 <sup>a</sup> |         |
|------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|
|                              |                                                                                               |                                                                              |                                                                                     |                                                                                                                                                                                  | Fasteners                        | Spacing |
| Intermittent Bracing Methods | PFF<br>Portal frame with hold-downs                                                           | $\frac{3}{8}$ "                                                              |  | See Section R602.10.6.2                                                                                                                                                          | See Section R602.10.6.2          |         |
|                              | PFG<br>Portal frame at garage                                                                 | $\frac{7}{16}$ "                                                             |  | See Section R602.10.6.3                                                                                                                                                          | See Section R602.10.6.3          |         |
| Continuous Sheathing Methods | CS-WSP<br>Continuously sheathed wood structural panel                                         | $\frac{3}{8}$ "                                                              |  | Exterior sheathing per Table R602.3(5)                                                                                                                                           | 6" edges 12" field               |         |
|                              | CS-GN <sup>b</sup><br>Continuously sheathed wood structural panel adjacent to garage openings | $\frac{3}{8}$ "                                                              |  | Interior sheathing per Table R602.3(1) or R602.3(2)                                                                                                                              | Varies by fastener               |         |
|                              | CS-WF<br>Continuously sheathed portal frame                                                   | $\frac{7}{16}$ "                                                             |  | See Method CS-WSP                                                                                                                                                                | See Method CS-WSP                |         |
|                              | CS-PF<br>Continuously sheathed portal frame                                                   | $\frac{7}{16}$ "                                                             |  | See Section R602.10.6.4                                                                                                                                                          | See Section R602.10.6.4          |         |
|                              | CS-SFB <sup>c</sup><br>Continuously sheathed structural floorboard                            | $\frac{1}{2}$ " or $\frac{3}{4}$ " <sup>d</sup> for maximum 16" stud spacing |  | $1\frac{1}{2}$ " long x 0.12" dia. (for $\frac{1}{2}$ " thick sheathing)<br>$1\frac{1}{2}$ " long x 0.12" dia. (for $\frac{3}{4}$ " thick sheathing)<br>galvanized roofing nails | 3" edges 6" field                |         |

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/m<sup>2</sup>, 1 mile per hour = 0.447 m/s.

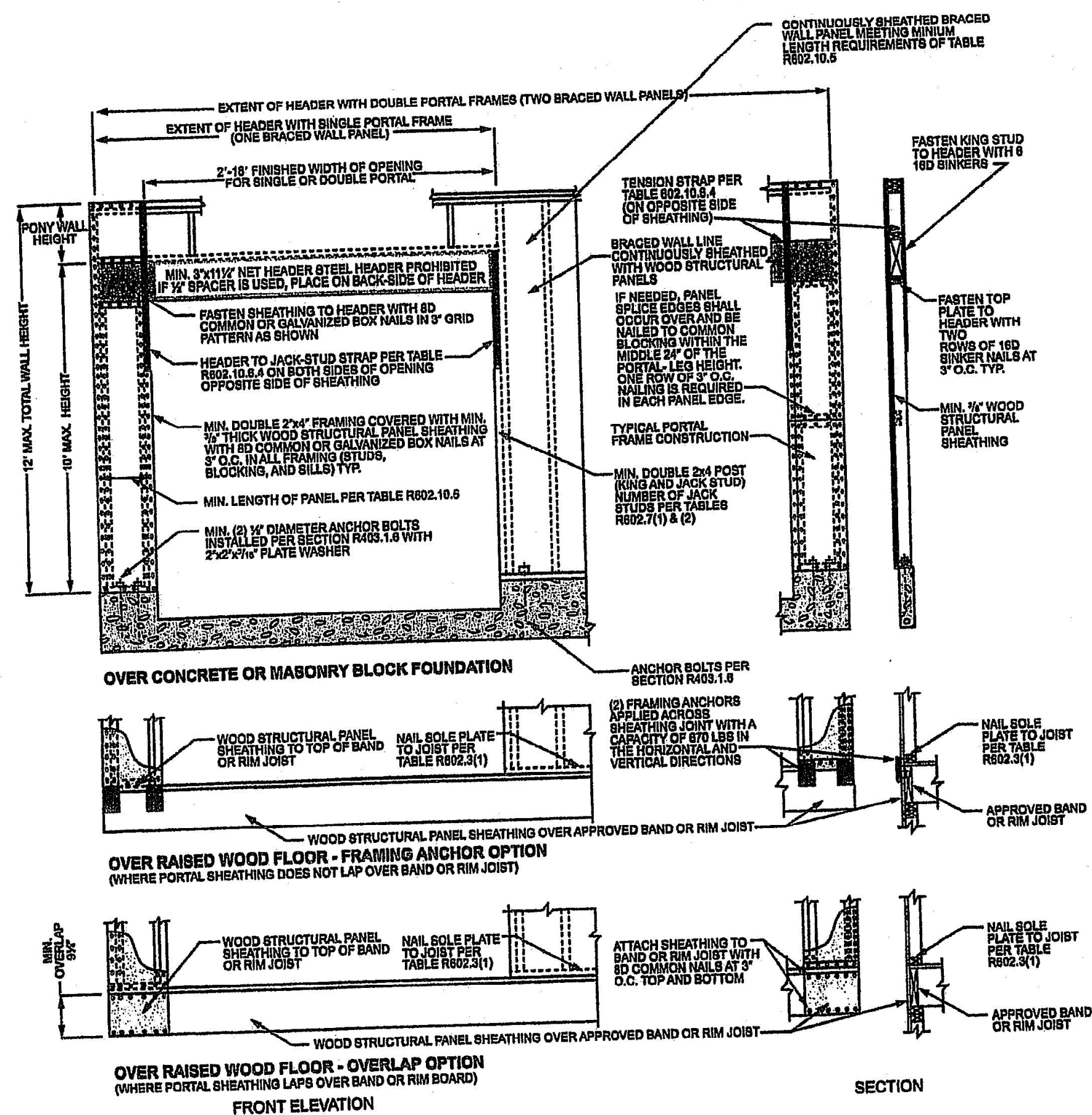
a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.

b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> 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 D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>0</sub> through D<sub>2</sub> only.



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

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.

LOT 116, MONTICELLO  
4733 NE FREEHOLD DR  
LEE SUMMIT MO

TRUMARK HOMES  
KYLE II

SCALE

1/4" = 1'-0"

DATE

4-18-21

PLAN NO.

3483

SHEET NO.

5 OF 5

BRACE WALL DETAILS  
WIND SPEED 115 MPH  
WIND EXPOSURE A  
SEISMIC DESIGN CATEGORY A

