

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

| MEAN ROOF HEIGHT 25'-8 | HEIGHT TO | RIDGE 30'-0" | |
|----------------------------|------------|--------------|------------|
| CLIMATE ZONE | ZONE 3A | ZONE 4A | ZONE 5A |
| FENESTRATION U-FACTOR | 0.35 | 0.35 | 0.35 |
| SKYLIGHT U-FACTOR | 0.55 | 0.55 | 0.55 |
| GLAZED FENESTRATION SHGC | 0.30 | 0.30 | 0.30 |
| CEILING R-VALUE | 38 or 30ci | 38 or 30ci | 38 or 30ci |
| WALL R-VALUE | 15 | 15 | 19 |
| FLOOR R-VALUE | 19 | 19 | 30 |
| * BASEMENT WALL R-VALUE | 5/13 | 10/15 | 10/15 |
| ** SLAB R-VALUE | 0 | 10 | 10 |
| * CRAWL SPACE WALL R-VALUE | 5/13 | 10/15 | 10/19 |

* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION ** INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL

| DESIGNED FOR WIN | ID SPEED | OF IZU ME | T, 3 SEU | | (93 FAST | EST MILE) | EXPUSUE | KE B |
|---|----------|-----------|----------|--------|----------|-----------|---------|--------|
| COMPONENT | ' & CLA | DDING | DESIG | NED FC |)r the | FOLLO | WING | LOADS |
| MEAN ROOF | UP T | O 30' | 30'-1" | TO 35' | 35'-1" | TO 40' | 40'-1" | TO 45' |
| ZONE 1 | 14.2 | -15.0 | 14.9 | -15.8 | 15.5 | -16.4 | 15.9 | -16.8 |
| ZONE 2 | 14.2 | -18.0 | 14.9 | -18.9 | 15.5 | -19.6 | 15.9 | -20.2 |
| ZONE 3 | 14.2 | -18.0 | 14.9 | -18.9 | 15.5 | -19.6 | 15.9 | -20.2 |
| ZONE 4 | 15.5 | -16.0 | 16.3 | -16.8 | 16.9 | -17.4 | 17.4 | -17.9 |
| ZONE 5 | 15.5 | -20.0 | 16.3 | -21.0 | 16.9 | -21.8 | 17.4 | -22.4 |
| DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B" | | | | | | | | |
| COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS | | | | | | | | |
| MEAN ROOF | UP T | O 30' | 30'-1" | TO 35' | 35'-1" | TO 40' | 40'-1" | TO 45' |
| | 167 | 10 0 | 17 5 | 10.0 | 10 0 | 10 6 | 107 | 20.2 |

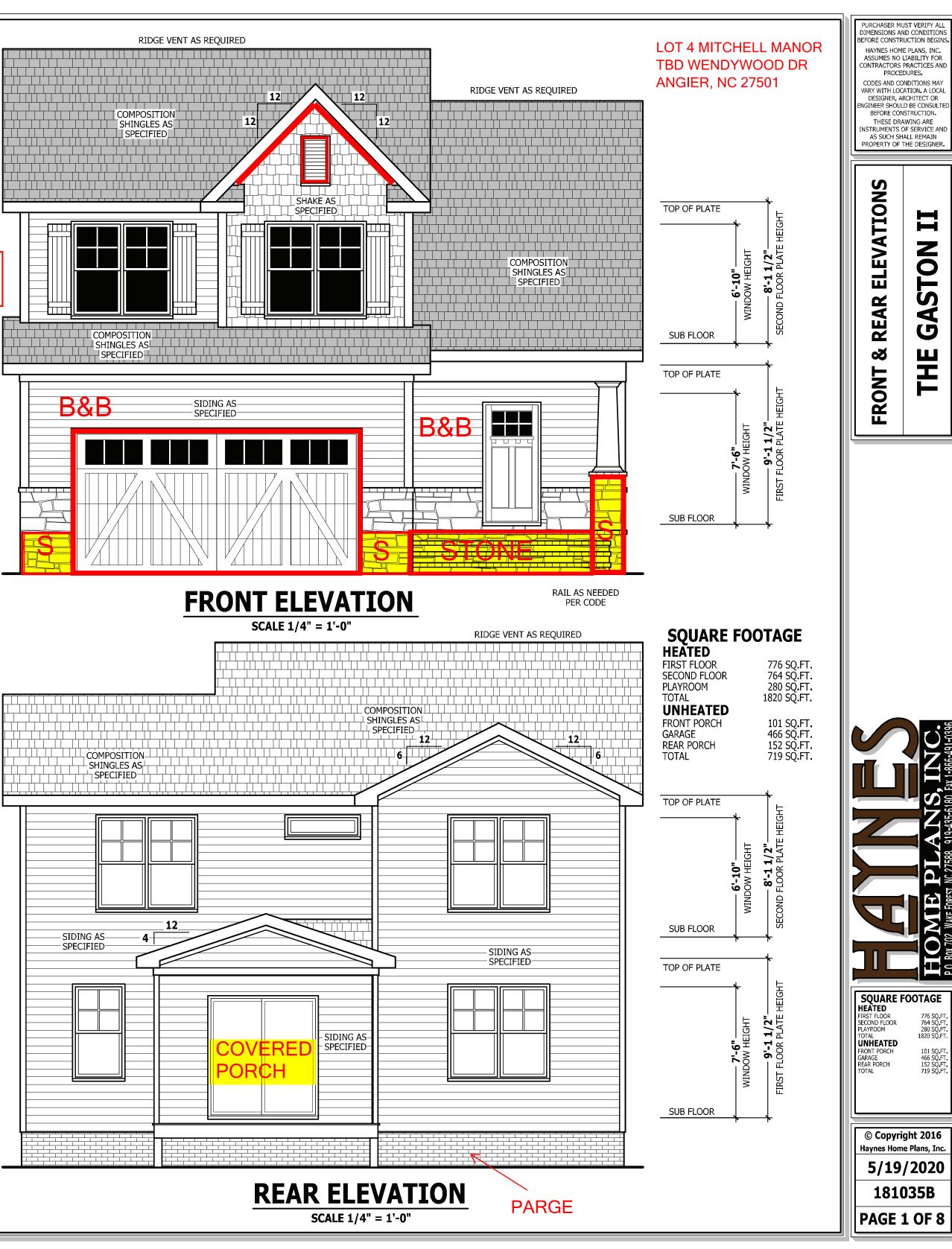
HVAC: CERTIFIED HVAC ELECTRICAL: PIONEER PLUMBING: DOUBLE J

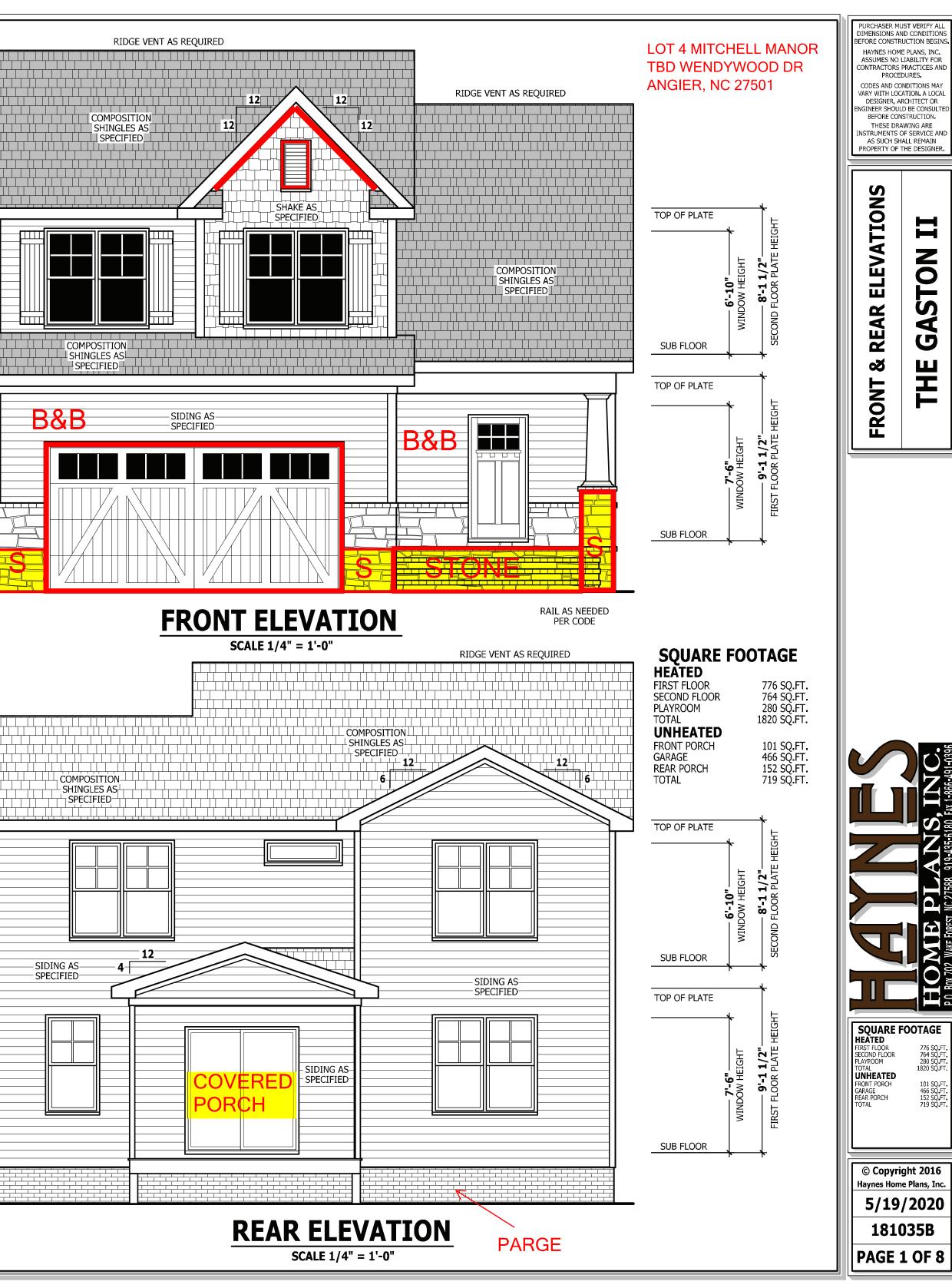
AIR LEAKAGE

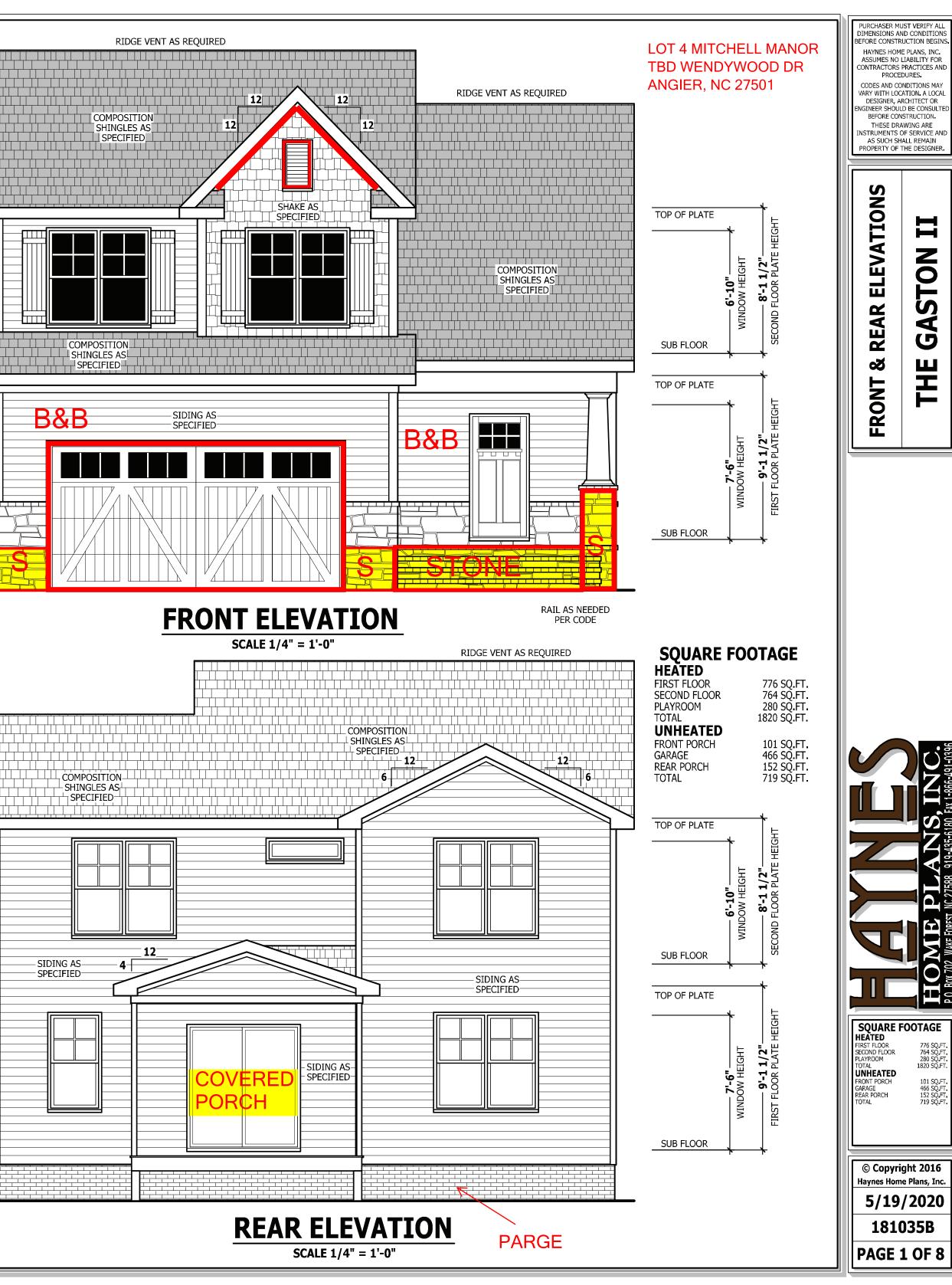
Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code: 1. Blocking and sealing floor/ceiling systems and under knee walls

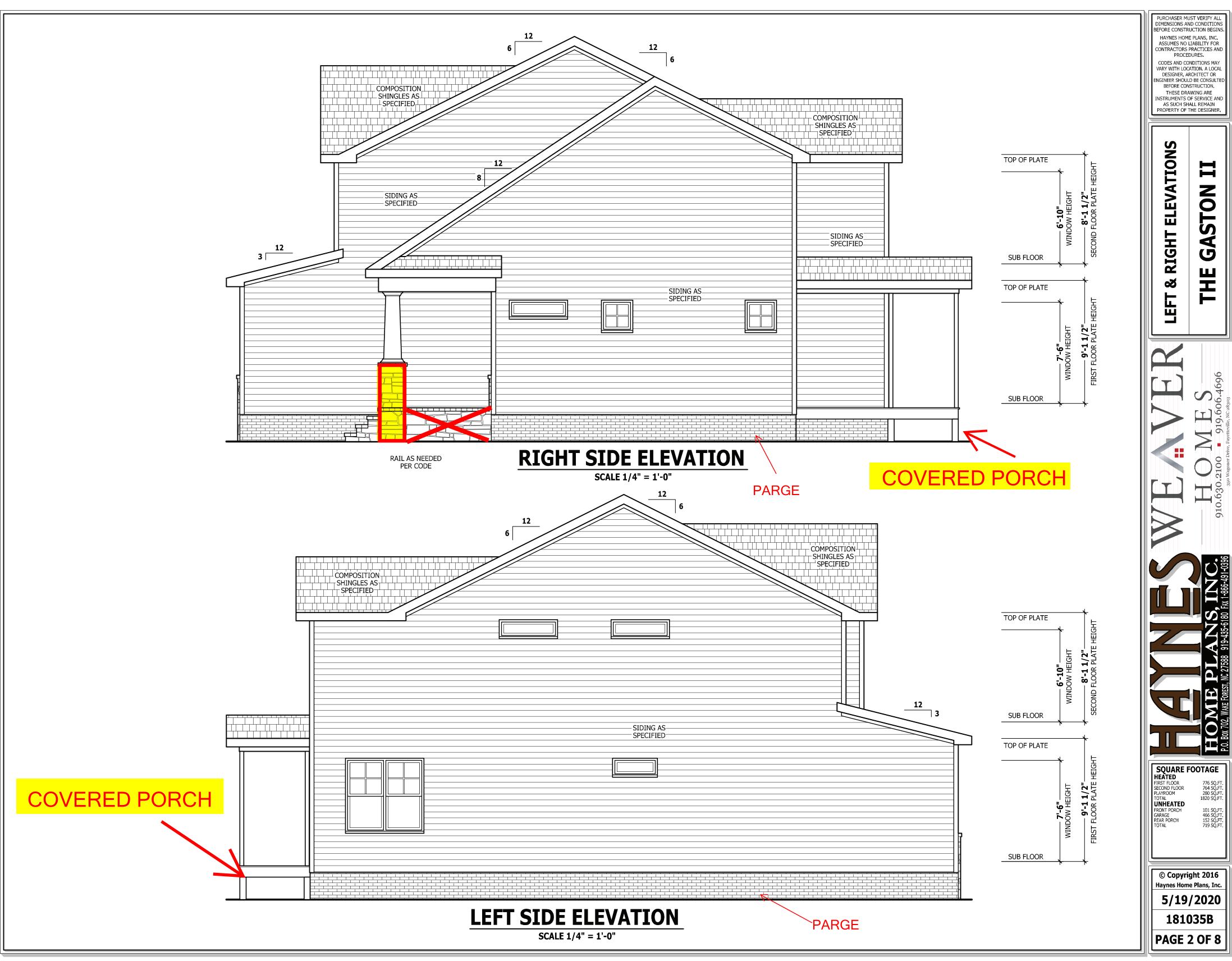
open to unconditioned or exterior space. 2. Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.

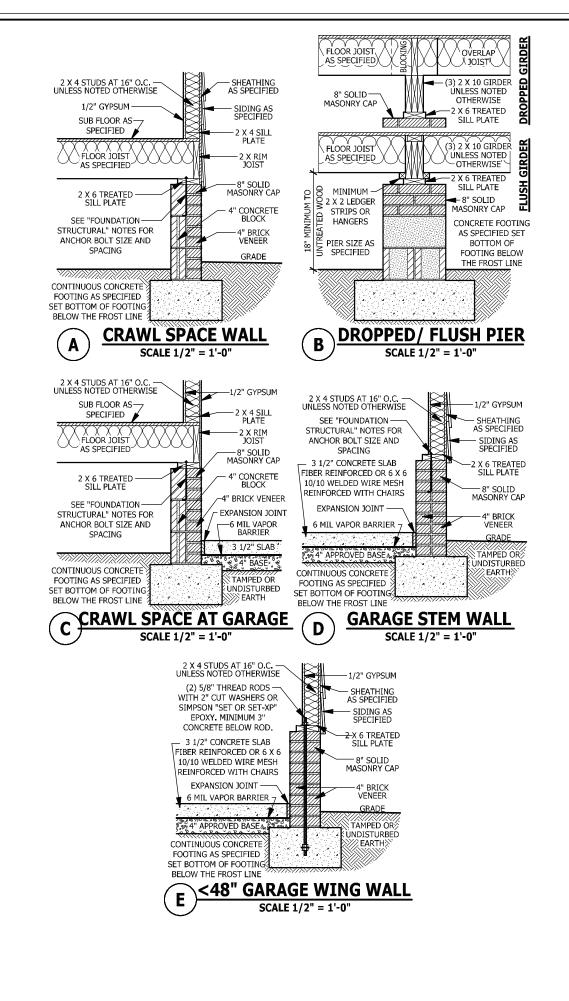






ion II Gaston II\200128B Company, eaver Z:\Builder\W





FOUNDATION STRUCTURAL

115 to 130 mph wind zone (1 1/2 to 2 1/2 story)

CONTINUOUS FOOTING: 16" wide and 8" thick minimum. 20" wide minimum at brick veneer. Must extended 2" to either side of supported wall. **GIRDERS:** (3) 2 X 10 girder unless noted otherwise.

PIERS: 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry.

POINT LOADS: designates significant point load and should have solid blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

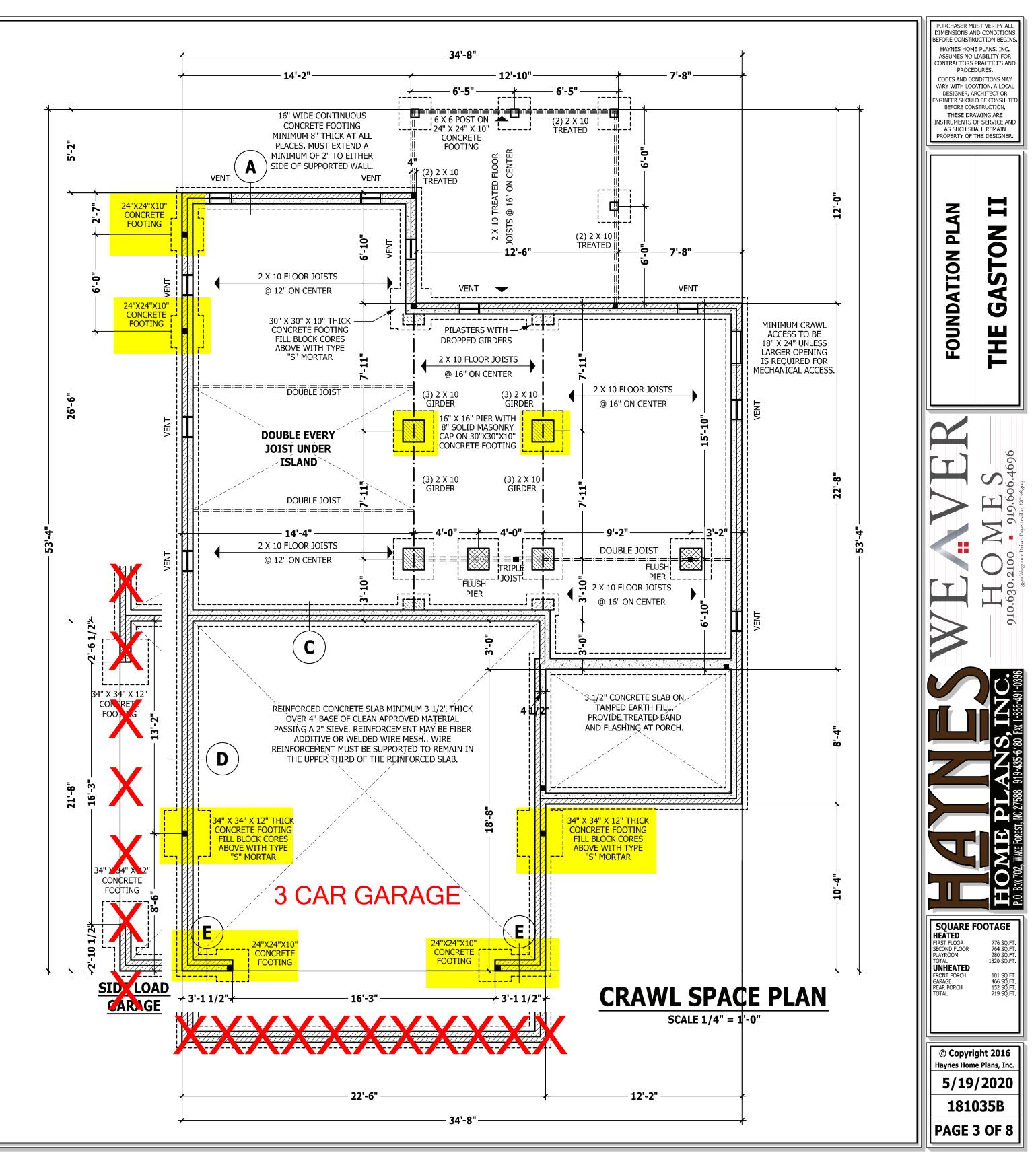
CONCRETE: Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

CLOSED CRAWL PER R409 OR WALL VENTED CRAWL SPACE

UNDER-FLOOR SPACE (SECTION R408)

SQUARE FOOTAGE OF FOUNDATION TO BE VENTED = 735 SQ.FT. WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 4.9 SQ.FT. WITH CROSS VENTILATION AREA OF VENTING NEEDED = 0.49 SQ.FT. NOTE: NUMBER OF VENTS NEED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.



ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.

Interior walls are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section. **STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling. **OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

EXTERIOR WINDOWS AND DOORS

SECTION R612

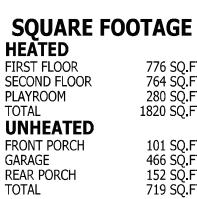
R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window or door.

R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. Exceptions:

1. Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.

2. Openings that are provided with window fall prevention devices that comply with Section R612.3. 3. Openings that are provided with fall prevention devices that comply with ASTM F 2090.

4. Windows that are provided with opening limiting devices that comply with Section R612.4. R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.



776 SQ.FT.

764 SQ.FT.

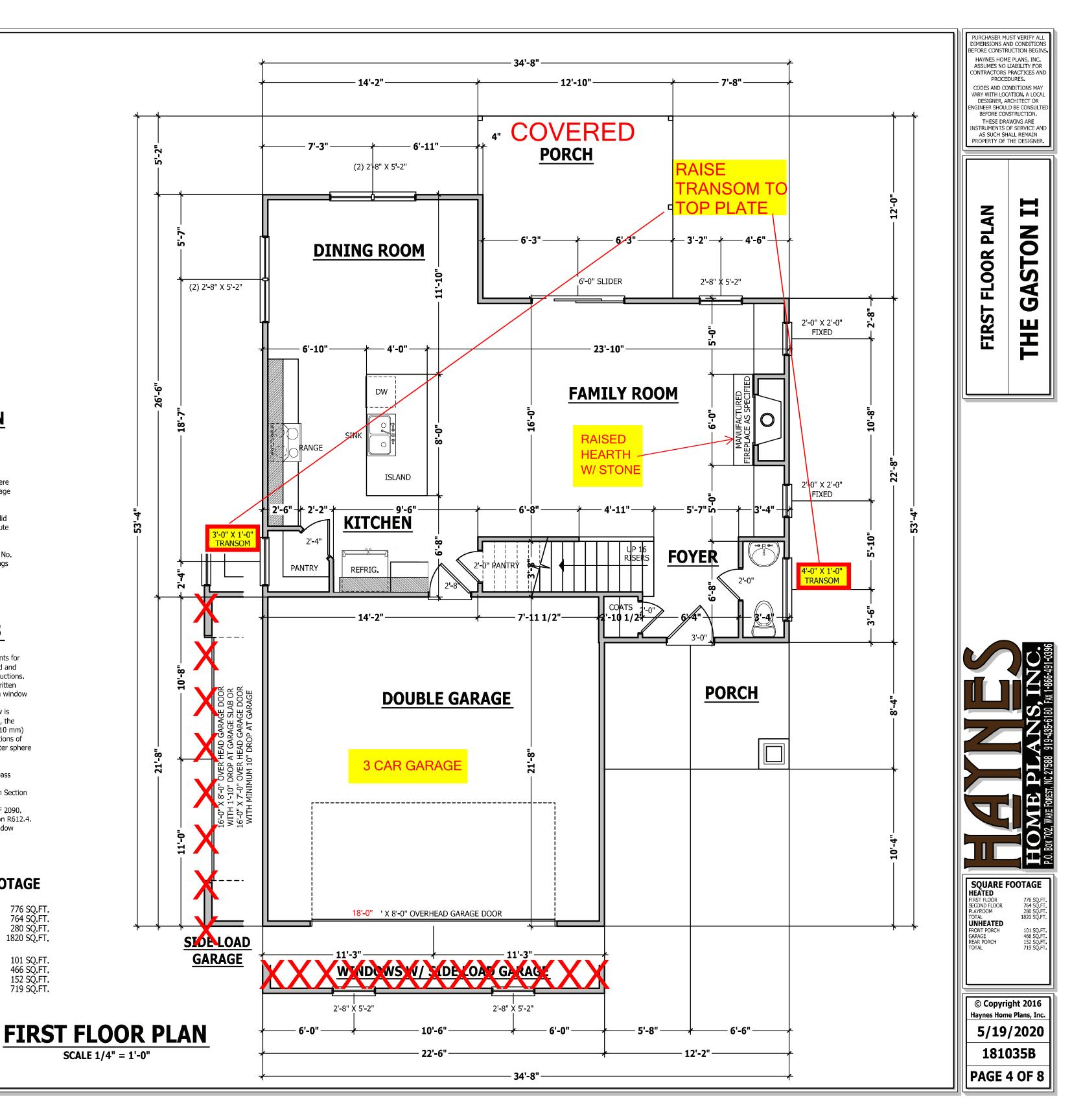
280 SQ.FT.

1820 SQ FT.

101 SQ FT 466 SQ FT

152 SQ.FT.

719 SQ.FT.



STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code. JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All

members shall be framed, anchored, and braced in accordance with good construction practice and the building code. DESTGN LOADS

| DESIGN LOADS | | DEAD LOAD | DEFLECTION |
|------------------------------|-------|-----------|------------|
| USE | (PSF) | (PSF) | (LL) |
| Attics without storage | 10 | | L/240 |
| Attics with limited storage | 20 | 10 | L/360 |
| Attics with fixed stairs | 40 | 10 | L/360 |
| Balconies and decks | 40 | 10 | L/360 |
| Fire escapes | 40 | 10 | L/360 |
| Guardrails and handrails | 200 | | |
| Guardrail in-fill components | 50 | | |
| Passenger vehicle garages | 50 | 10 | L/360 |
| Rooms other than sleeping | 40 | 10 | L/360 |
| Sleeping rooms | 30 | 10 | L/360 |
| Stairs | 40 | | L/360 |
| Snow | 20 | | |

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

ENGINEERED WOOD BEAMS :

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick. **CONCRETE AND SOILS:** See foundation notes.

BRACE WALL PANEL NOTES

EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.

GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

Methods Per Table R602.10.1

CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or $8d(2 1/2" \log x 0.113" diameter)$. CS-SFB: Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing nails

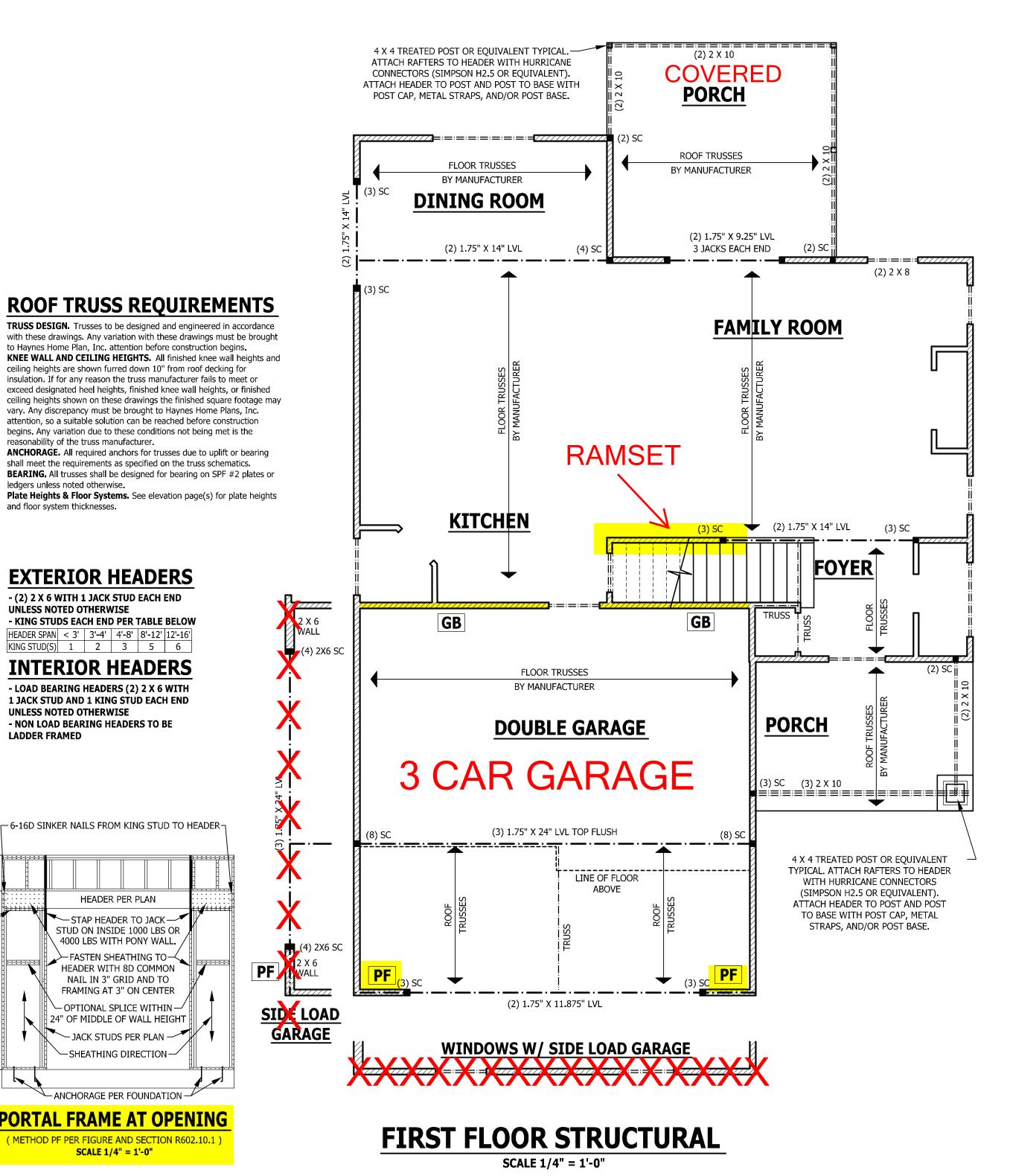
GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

ROOF TRUSS REQUIREMENTS

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. BEARING. All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.



PONY WALL HEIGHT TO VARY HEADER PР то тор **12'-0**". і неіднт то тор (____ **10'-0**'' ____ HEADER WITH 8D COMMON Ö© ROWS TWO 24" OF MIDDLE OF WALL HEIGHT ٩UM MAXI ANCHORAGE PER FOUNDATION -PORTAL FRAME AT OPENING PF (METHOD PF PER FIGURE AND SECTION R602.10.1



STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code. JOB SITE PRACTICES AND SAFETY: Havnes Home Plans,

Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

| DESIGN LOADS | LIVE LOAD | DEAD LOAD | DEFLECTIO |
|------------------------------|-----------|-----------|-----------|
| USE | (PSF) | (PSF) | (LL) |
| Attics without storage | 10 | 10 | L/240 |
| Attics with limited storage | 20 | 10 | L/360 |
| Attics with fixed stairs | 40 | 10 | L/360 |
| Balconies and decks | 40 | 10 | L/360 |
| Fire escapes | 40 | 10 | L/360 |
| Guardrails and handrails | 200 | | |
| Guardrail in-fill components | 50 | | |
| Passenger vehicle garages | 50 | 10 | L/360 |
| Rooms other than sleeping | 40 | 10 | L/360 |
| Sleeping rooms | 30 | 10 | L/360 |
| Stairs | 40 | | L/360 |
| Snow | 20 | | |

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

ENGINEERED WOOD BEAMS

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI

Install all connections per manufacturers instructions. **TRUSS AND I-JOIST MEMBERS:** All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise.

FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing.

ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick.

CONCRETE AND SOILS: See foundation notes.

ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

EXTERIOR HEADERS

- (2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE - KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE LADDER FRAMED

ROOF TRUSS REQUIREMENTS

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. **KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face. **Interior walls** are drawn as 3 1/2" or as noted 2 X 6

are drawn as 5 1/2", and do not include gypsum.

EXTERIOR WINDOWS AND DOORS

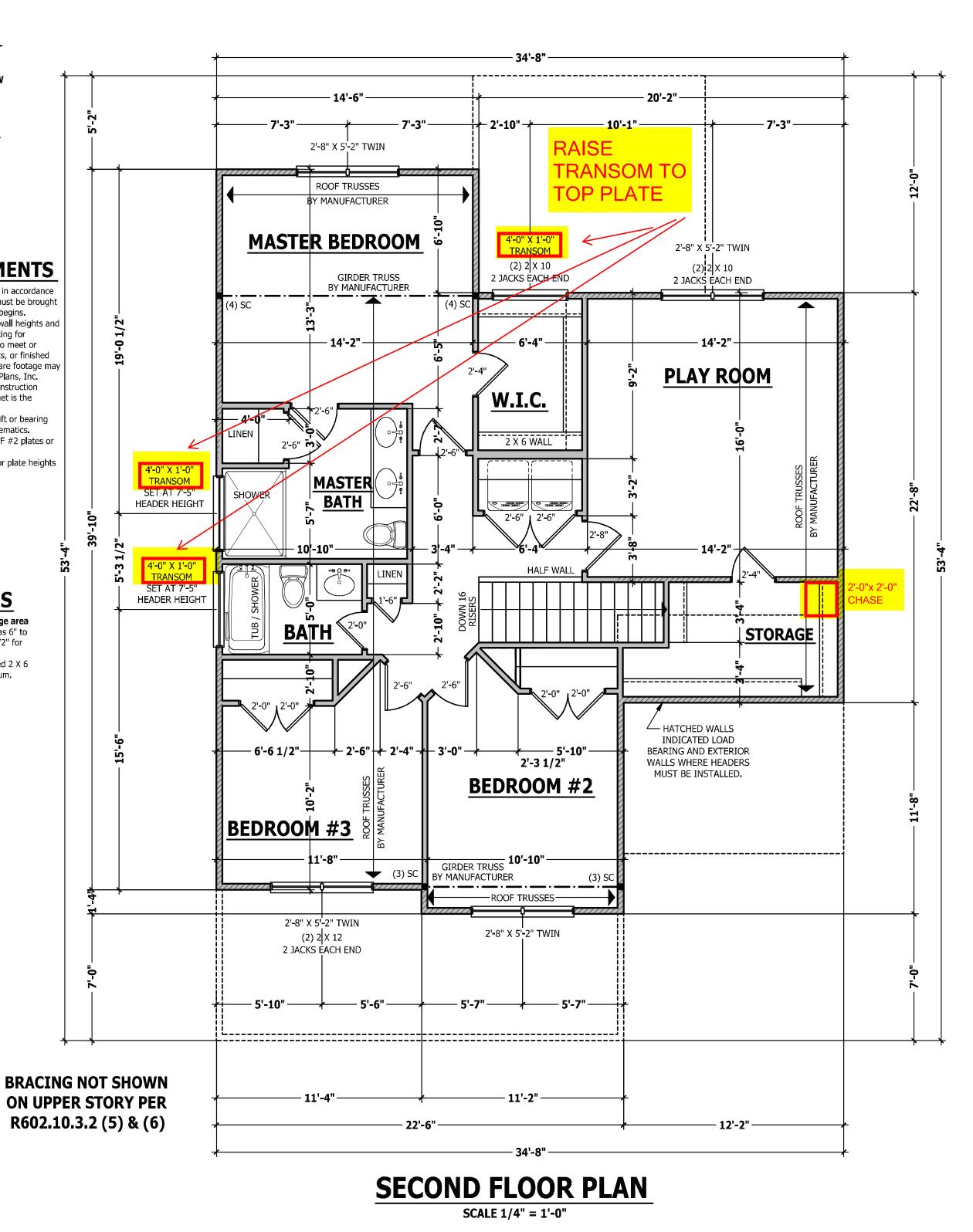
SECTION R612

R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window or door.

R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished *grade* or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. **Exceptions:**

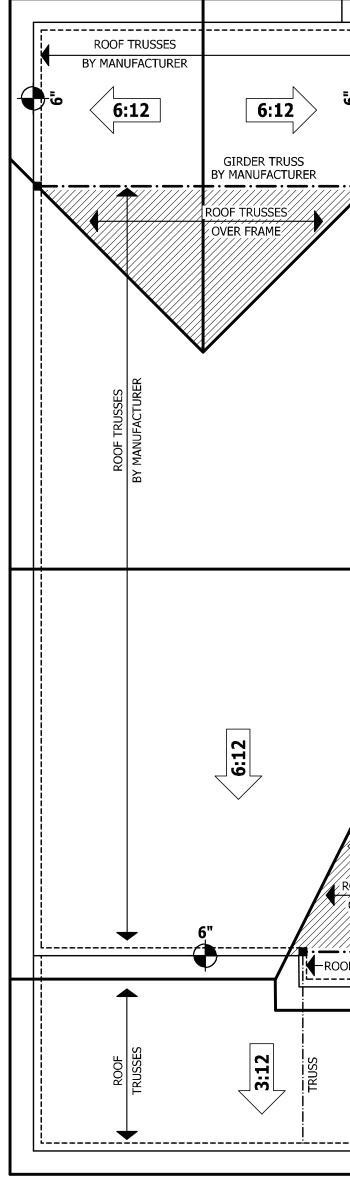
 Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
 Openings that are provided with window fall prevention devices that comply with Section R612.3.

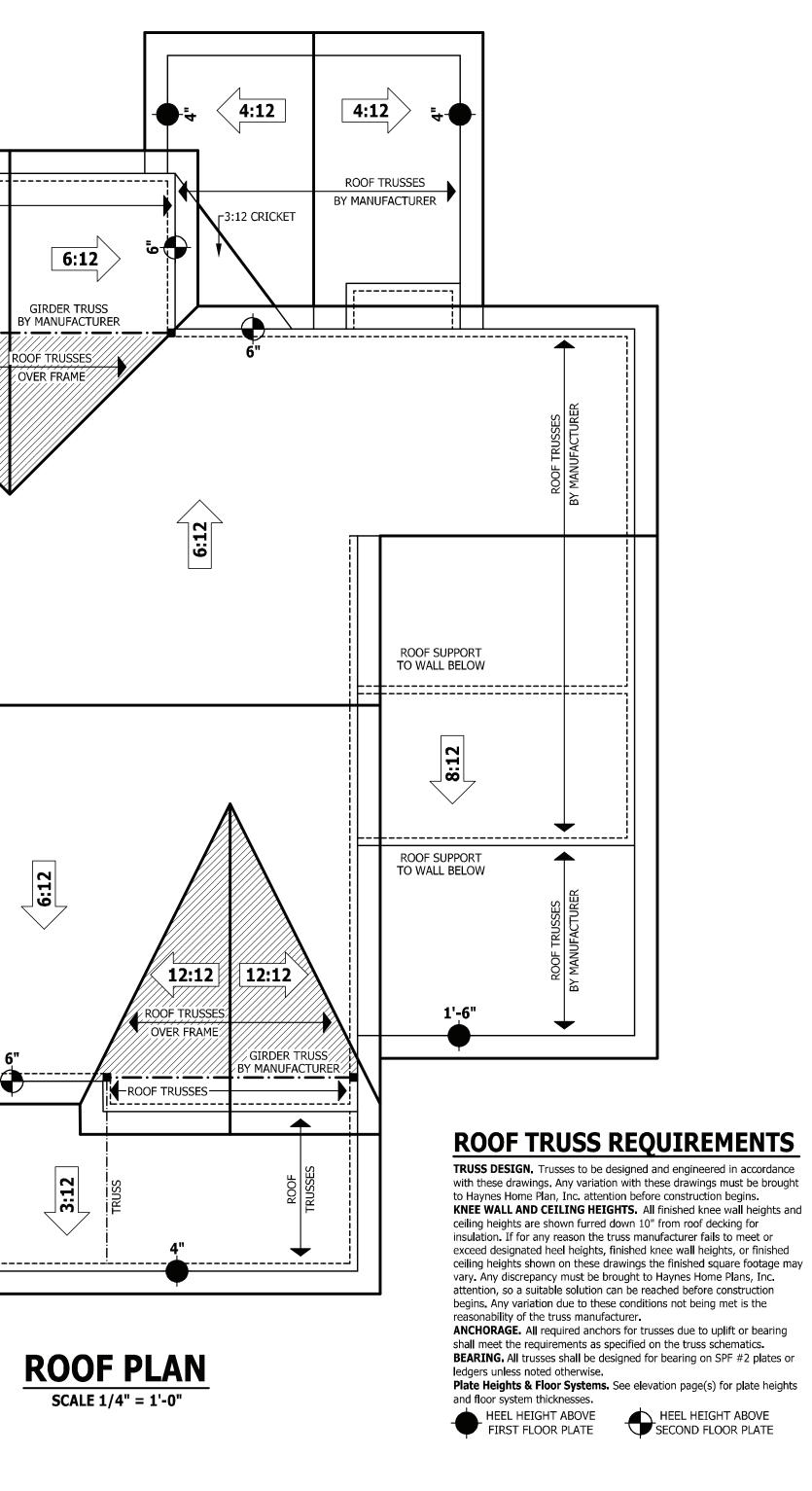
Openings that are provided with fall prevention devices that comply with ASTM F 2090.
 Windows that are provided with opening limiting devices that comply with Section R612.4.
 R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.





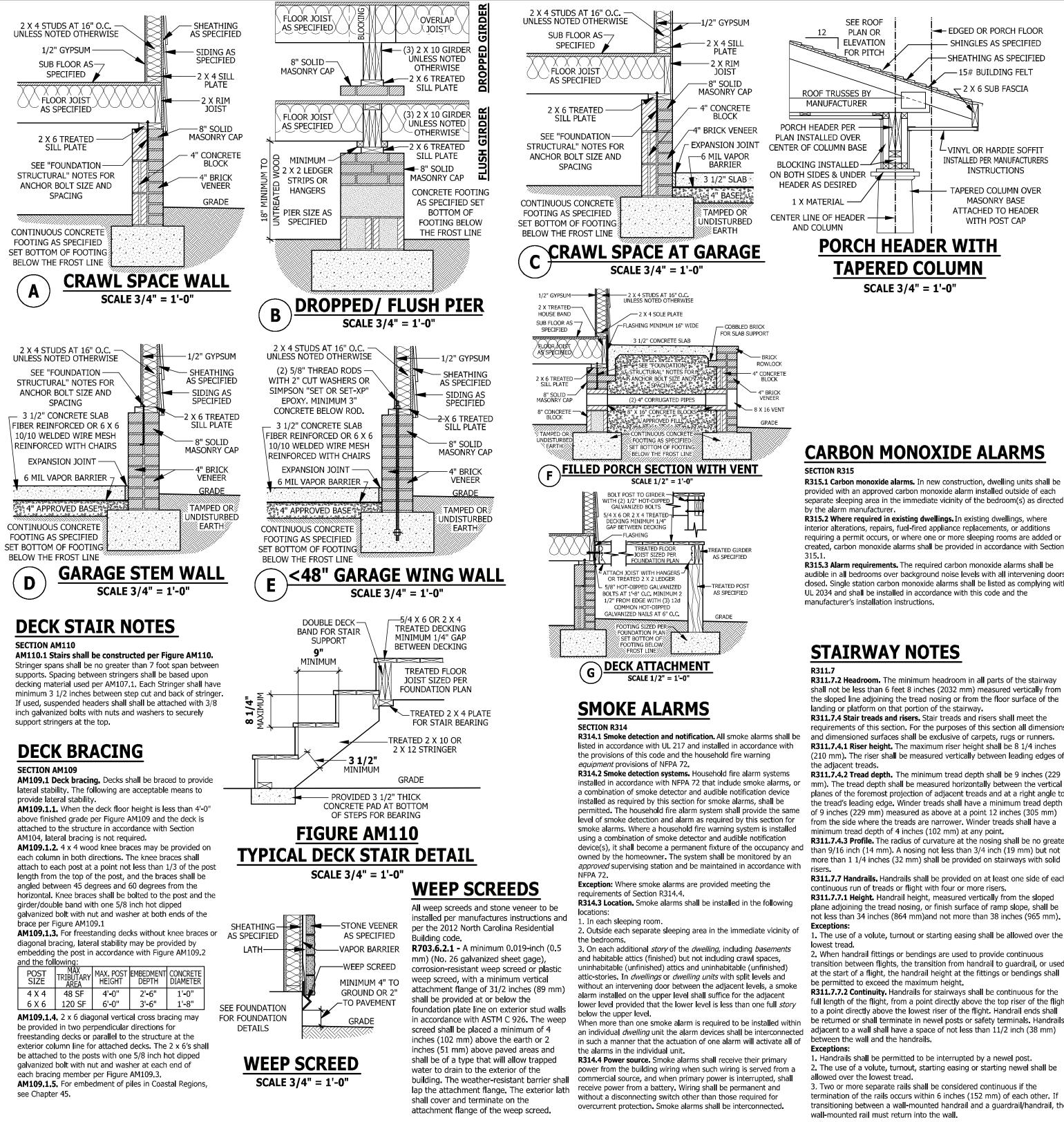
Z:\Builder\Weaver Development Company, Inc\200128B Gaston II\200128B Gaston II Left.aed







PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.



R315.1 Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed

interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section

R315.3 Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with

requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. **R311.7.4.1 Riser height.** The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid

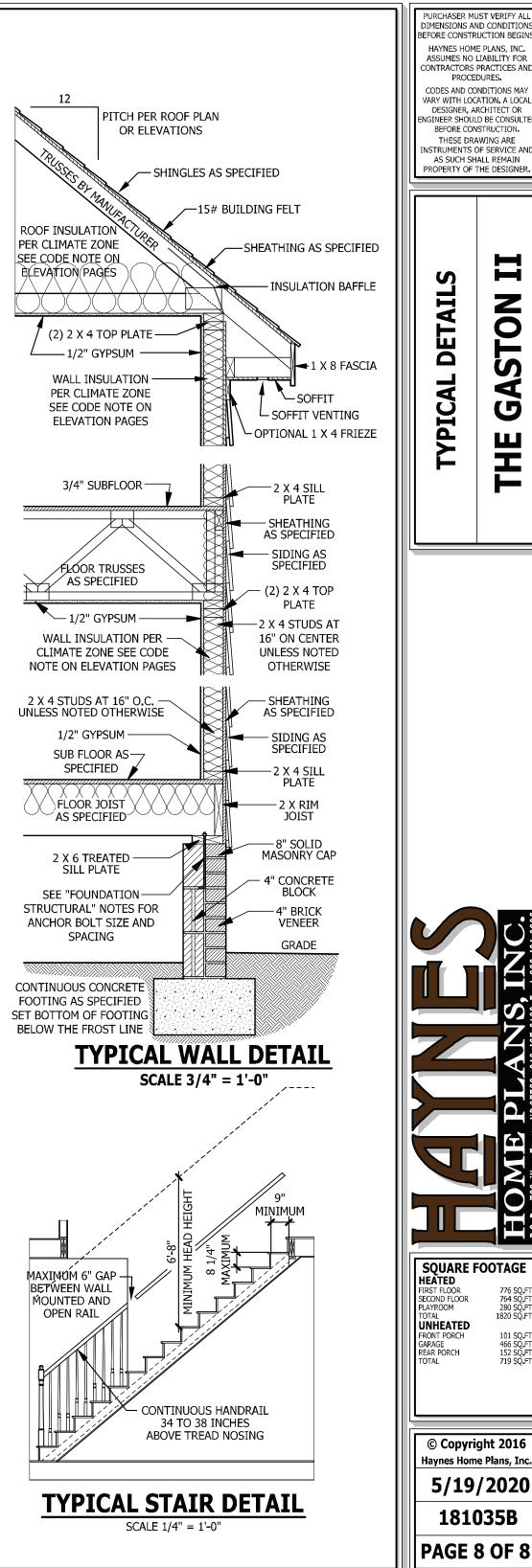
R311.7.7 Handrails. Handrails shall be provided on at least one side of each **R311.7.7.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

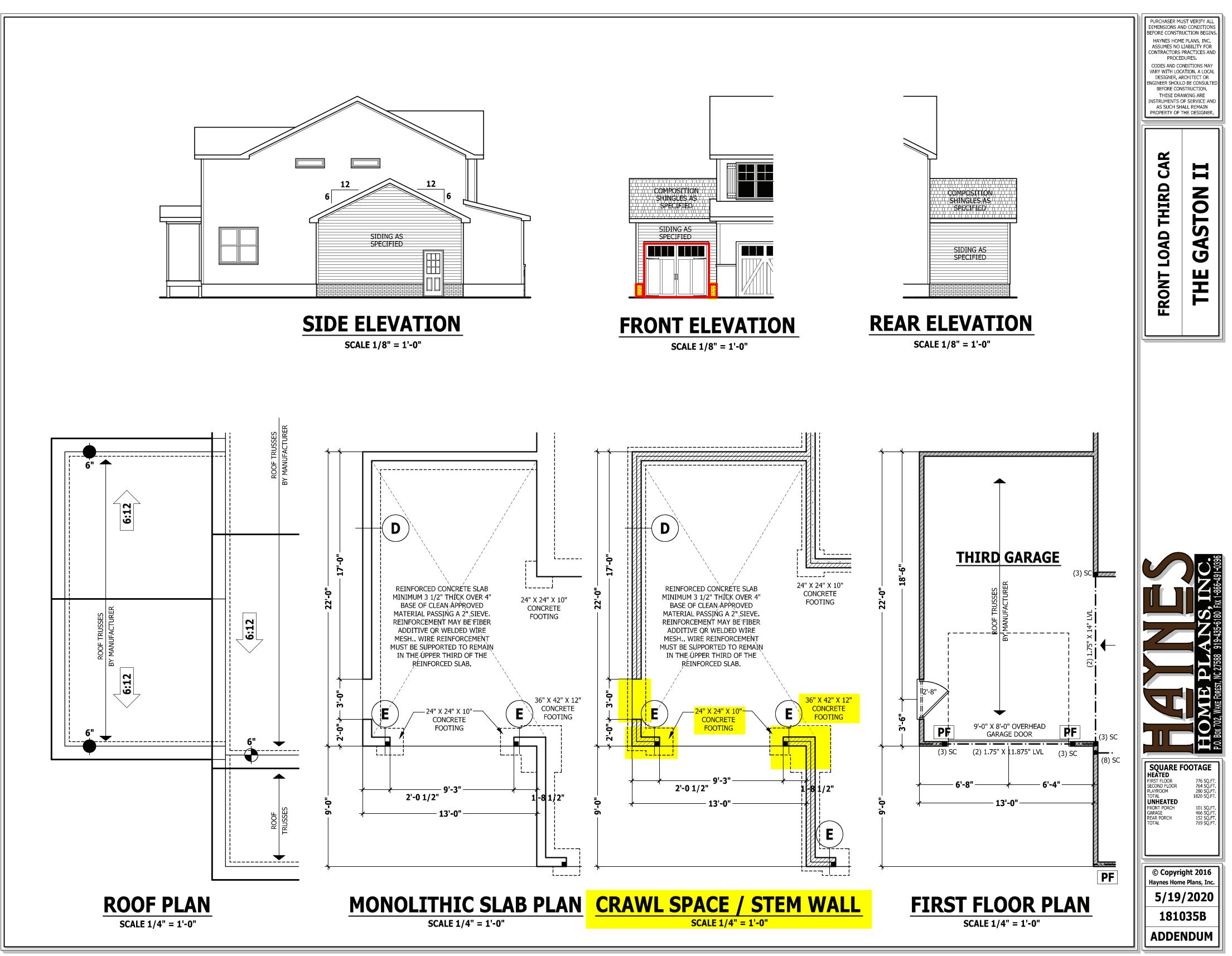
1. The use of a volute, turnout or starting easing shall be allowed over the

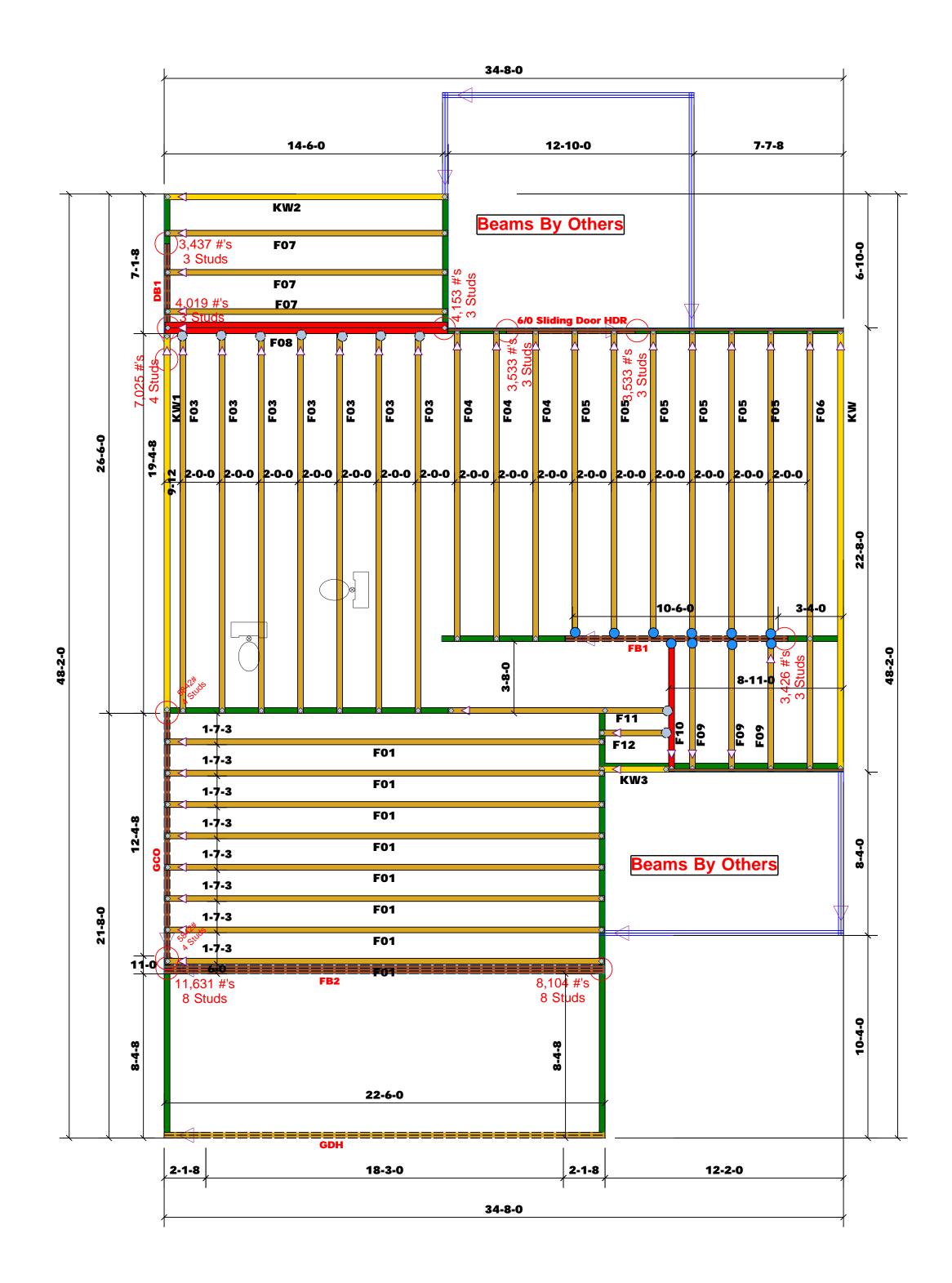
transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails

termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the







| \bigcirc | HUS410 | USP | 10 | NA | 16d/3-1/2" | 16d/3-1/2" |
|------------|--------|-----|----|--------|------------|------------|
| \bigcirc | MSH422 | USP | 9 | Varies | 10d/3" | 10d/3" |

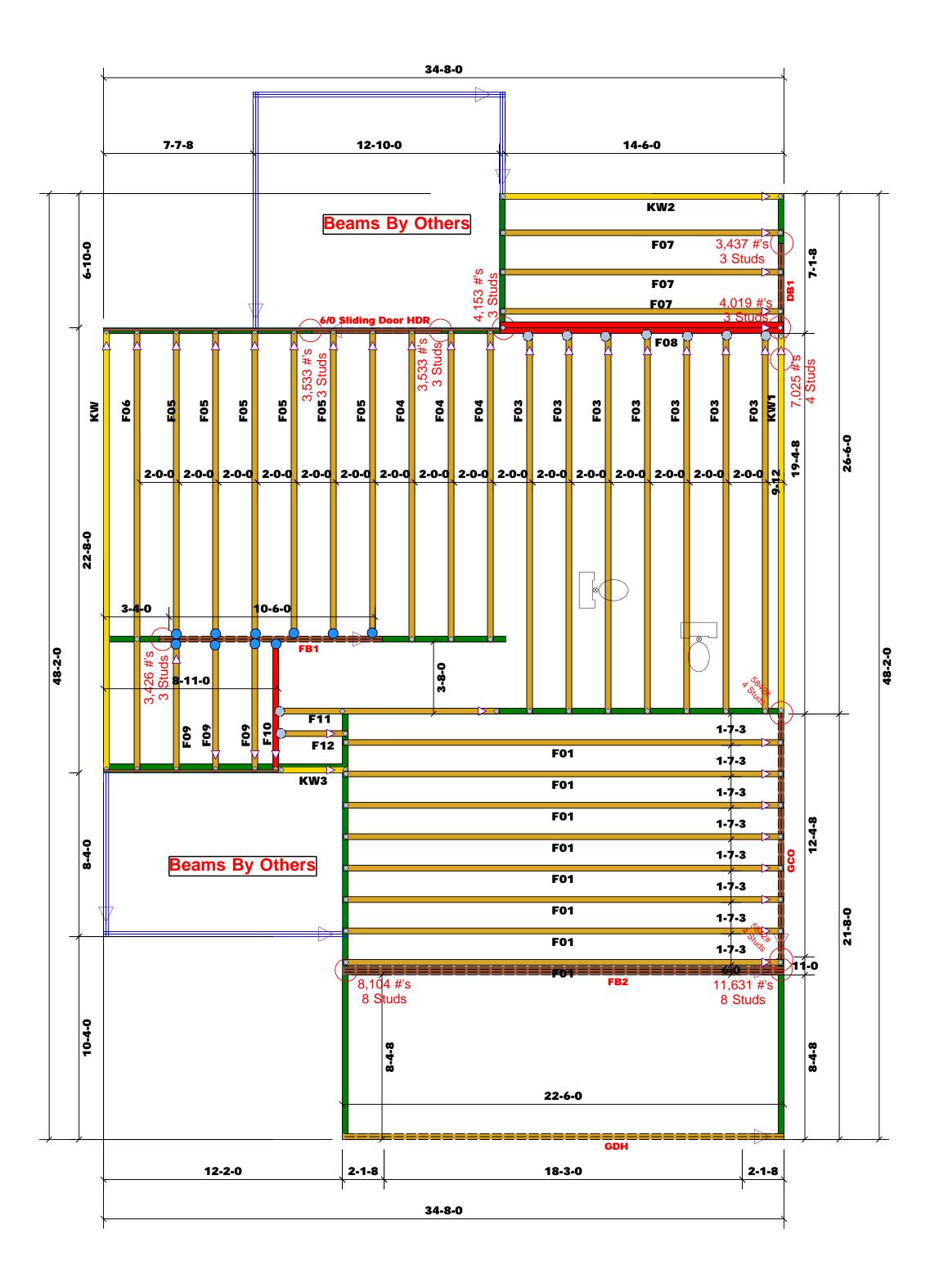
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

| | | Products | | | |
|----------------------|--------|-----------------------------|-------|---------|----------|
| PlotID | Length | Product | Plies | Net Qty | Fab Type |
| 6/0 Sliding Door HDR | 7' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 | FF |
| GDH | 23' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF |
| GCO | 14' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF |
| FB1 | 12' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF |
| DB1 | 7' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF |
| FB2 | 23' 0" | 1-3/4"x 23-7/8" LVL Kerto-S | 3 | 3 | FF |

| | | | | |] | <u>Fruss</u> <u>Placemen</u> SCALE: 1/4" | | • | nce Engineered Truss Drawing) IOT Erect Truss Backwards |
|--|--|----------------------------------|-----------------------------|--------------------------------|---|---|---|---|---|
| | LOAD CHART FOR JA | | 5 A (60) | BUILDER | Weaver Development Co. Inc. | COUNTY | Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | |
| | CT TAUR REACTION (CT TAU) CT TAU CT TA | e z 20 | JOB NAME | Lot 4 Mitchell Manor Section I | ADDRESS | Wendywood Drive | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package | соттесн | |
| | | IND AL US BEQUOS (A) MY | PLAN | Gaston II (181035B) | MODEL | Floor | or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR | |
| | 1700 1 3400 2 5100 3 | 2550 1 5100 2 7650 3 | 3400 1 6600 2 10200 3 | SEAL DATE | N/A | DATE REV. | 11 | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | TRUSSES & BEAMS Reilly Road Industrial Park |
| | 10200 6 | 10200 4 12750 5 15300 6 | 13600 4 17000 5 | QUOTE # | Quote # | DRAWN BY | Marshall Naylor | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. | Fayetteville, N.C. 28309 Phone: (910) 864-8787 |
| | 11900 7 13600 8 15300 9 | | | JOB # | OB # J1221-7073 SALESMAN Lenny Norris | | Lenny Norris | Signature Marshall Naylor | Fax: (910) 864-4444 |

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing)



-

| \bigcirc | HUS410 | USP | 10 | NA | 16d/3-1/2" | 16d/3-1/2" |
|------------|--------|-----|----|--------|------------|------------|
| \bigcirc | MSH422 | USP | 9 | Varies | 10d/3" | 10d/3" |

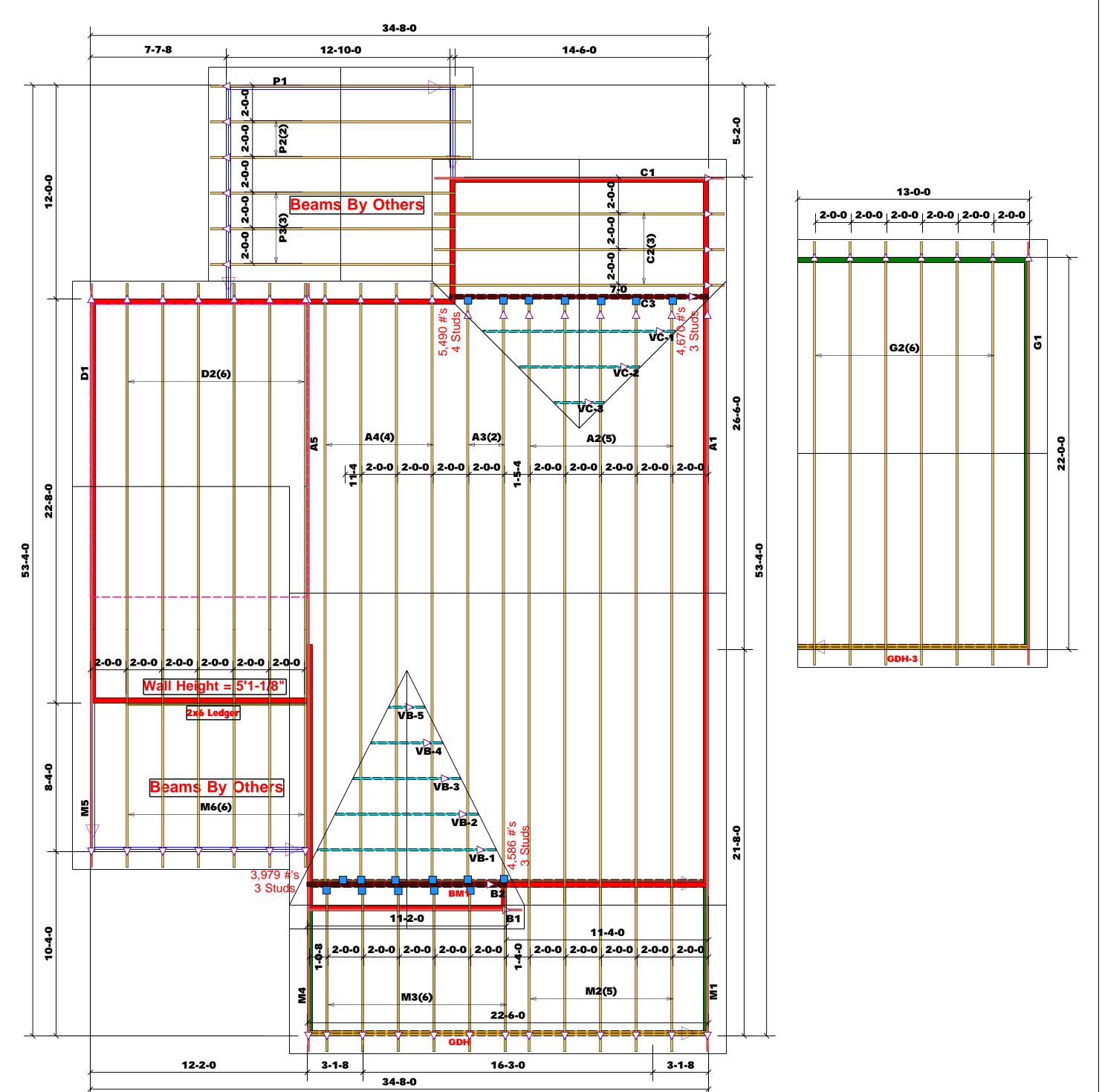
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

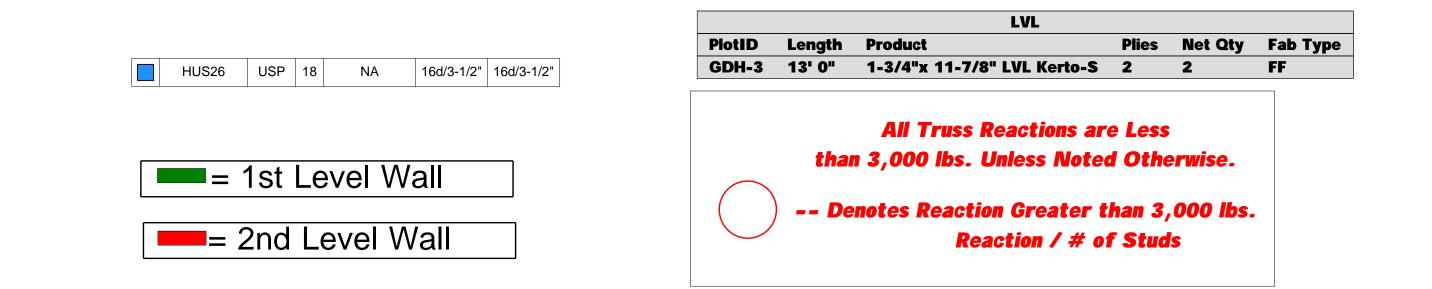
-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

| Products | | | | | | | | | |
|----------------------|--------|-----------------------------|-------|---------|----------|--|--|--|--|
| PlotID | Length | Product | Plies | Net Qty | Fab Type | | | | |
| 6/0 Sliding Door HDR | 7-0-0 | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 | FF | | | | |
| GDH | 23-0-0 | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF | | | | |
| GCO | 14-0-0 | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF | | | | |
| FB1 | 12-0-0 | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF | | | | |
| DB1 | 7-0-0 | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF | | | | |
| FB2 | 23-0-0 | 1-3/4"x 23-7/8" LVL Kerto-S | 3 | 3 | FF | | | | |

| | |] | <u>Fruss</u> <u>Placemen</u> SCALE: 1/4" | | - | nce Engineered Truss Drawing) OT Erect Truss Backwards |
|--|-----------|--------------------------------|---|-----------------|---|--|
| LOAD CHART FOR JACK STUDS | BUILDER | Weaver Development Co. Inc. | COUNTY | Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | |
| | | Lot 4 Mitchell Manor Section I | ADDRESS | Wendywood Drive | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package | соттесн |
| CND SLAT SUC DE SUC DE | PLAN | Gaston II (181035B) | MODEL | Floor | or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR |
| 1700 1 2550 1 3400 1 3400 2 5100 2 6600 2 5100 3 7650 3 10200 3 4000 2 5100 2 6600 2 | SEAL DATE | N/A | DATE REV. | 11 | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | Reilly Road Industrial Park |
| 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 f0200 6 15500 6 | QUOTE # | Quote # | DRAWN BY | Marshall Naylor | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. | Fayetteville, N.C. 28309 Phone: (910) 864-8787 |
| 11900 7 13600 8 15300 e | JOB # | J1221-7073 | SALESMAN | Lenny Norris | Signature Marshall Naylor | Fax: (910) 864-4444 |

 \triangle = Indicates Left End of Truss (Reference Engineered Truss Drawing)

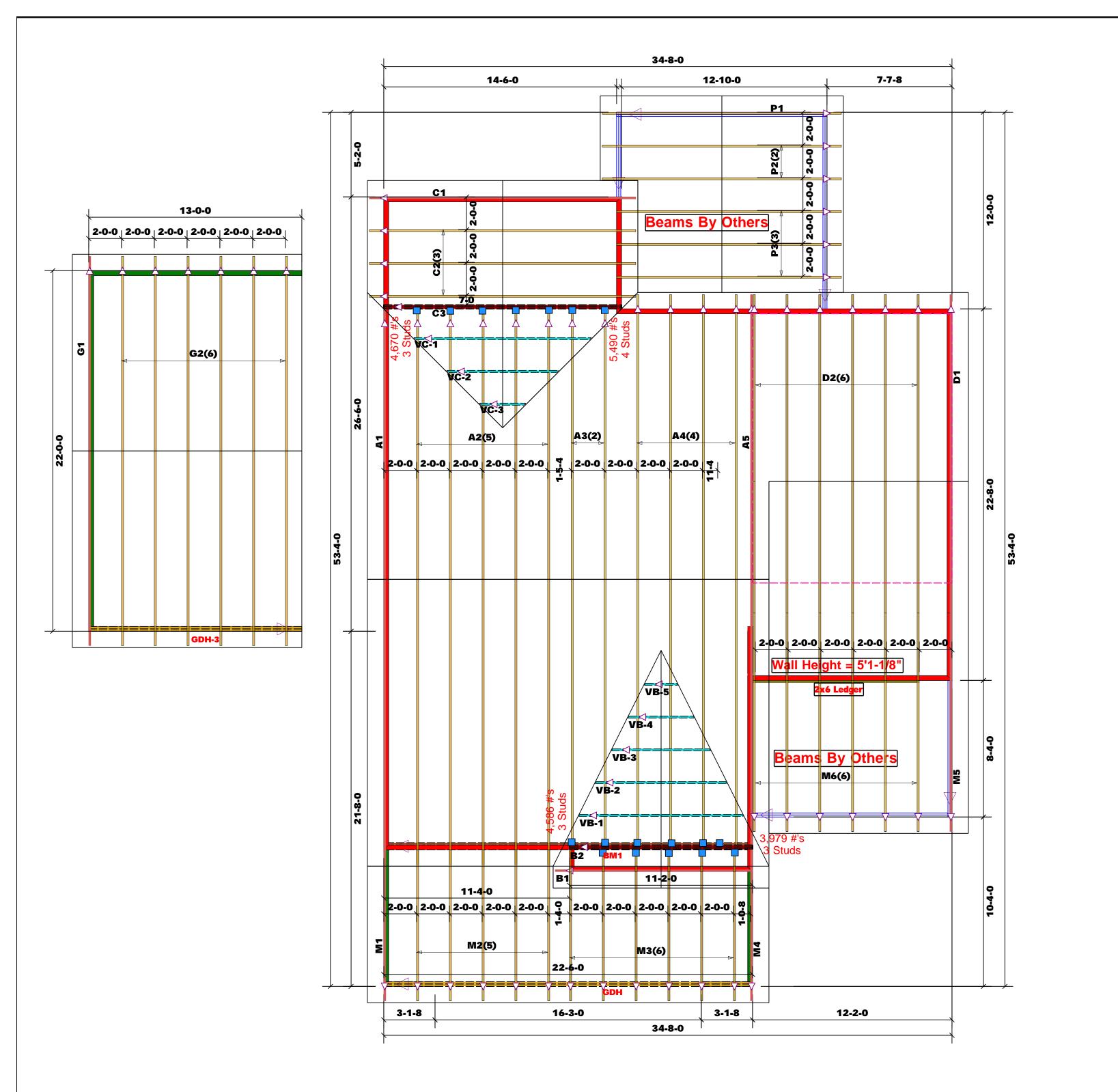


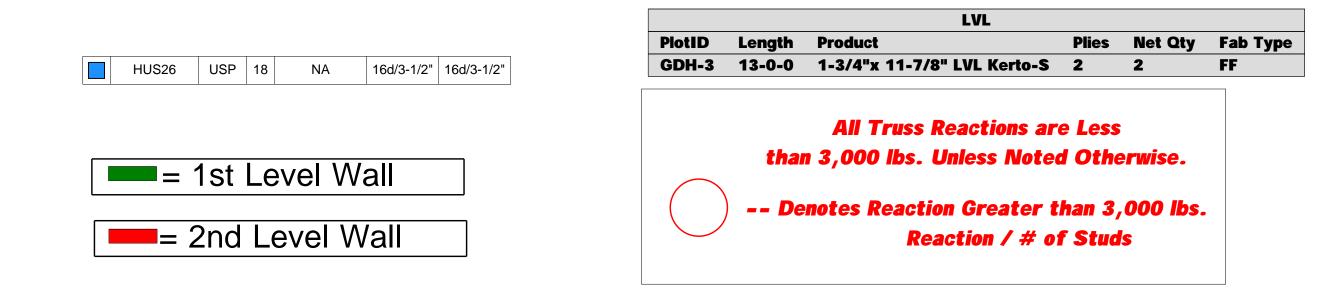


 Δ = Indicates Left End of Truss (Reference Engineered Truss Drawing) **Do NOT Erect Truss Backwards**

| | LOAD CHART FOR JACK STUDS (0446 CN 140 F5 85025() 4.60) CLARCE OF LARCE STUDE (CA CME OF FEACEWEIRDES) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 4 2 3 4 4 4 5 4 5 4 | | BUILDER | Weaver Development Co. Inc. | COUNTY | Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | | |
|------------|--|-------------------------------|--|-----------------------------|--------------------------------|-----------|--|---|---|
| NOLD | | | 100 Local No. 10 | JOB NAME | Lot 4 Mitchell Manor Section I | ADDRESS | Wendywood Dr. | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package | соттесн |
| D END REAC | 1.50 015 015 015 015 015 015 015 015 015 0 | vato Lano Sid Qua | | PLAN | Gaston II (181035B) 3Car | MODEL | Roof | or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR |
| 34 51 | 00 2 00 3 | 2550 1 5100 2 7650 3 | 3400 1 6600 2 10200 3 | SEAL DATE | N/A | DATE REV. | 11 | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | TRUSSES & BEAMS Reilly Road Industrial Park |
| 85 103 | 00 5 | 10200 4 12750 5 15300 6 | 13600 4 17000 5 | QUOTE # | | DRAWN BY | Marshall Naylor | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. | Fayetteville, N.C. 28309 Phone: (910) 864-8787 |
| 130 | 11900 7 13600 8 15300 9 | | | JOB # | J1221-7072 | SALESMAN | Lenny Norris | Signature Marshall Naylor | Fax: (910) 864-4444 |

Truss Placement Plan SCALE: 1/4"=1'

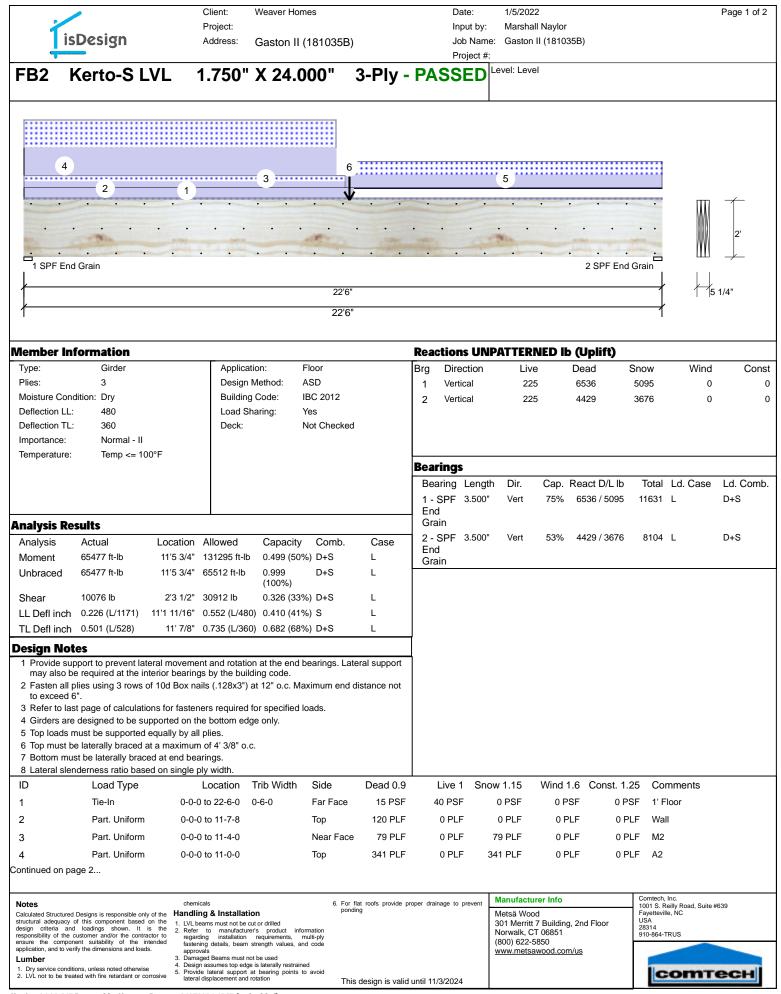


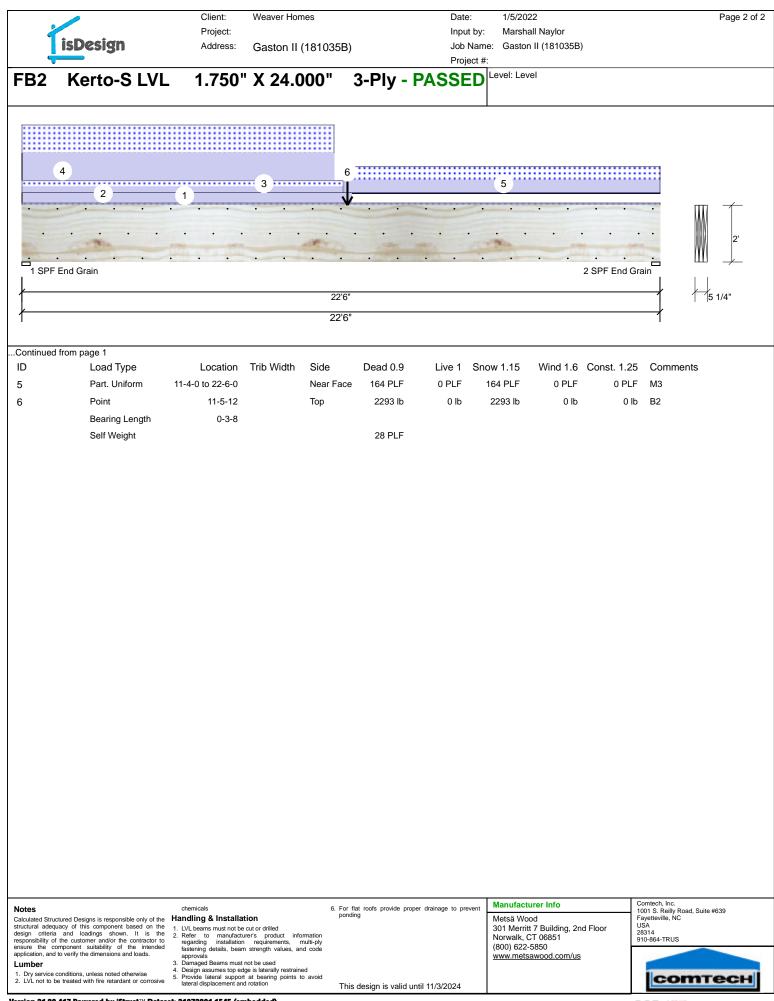


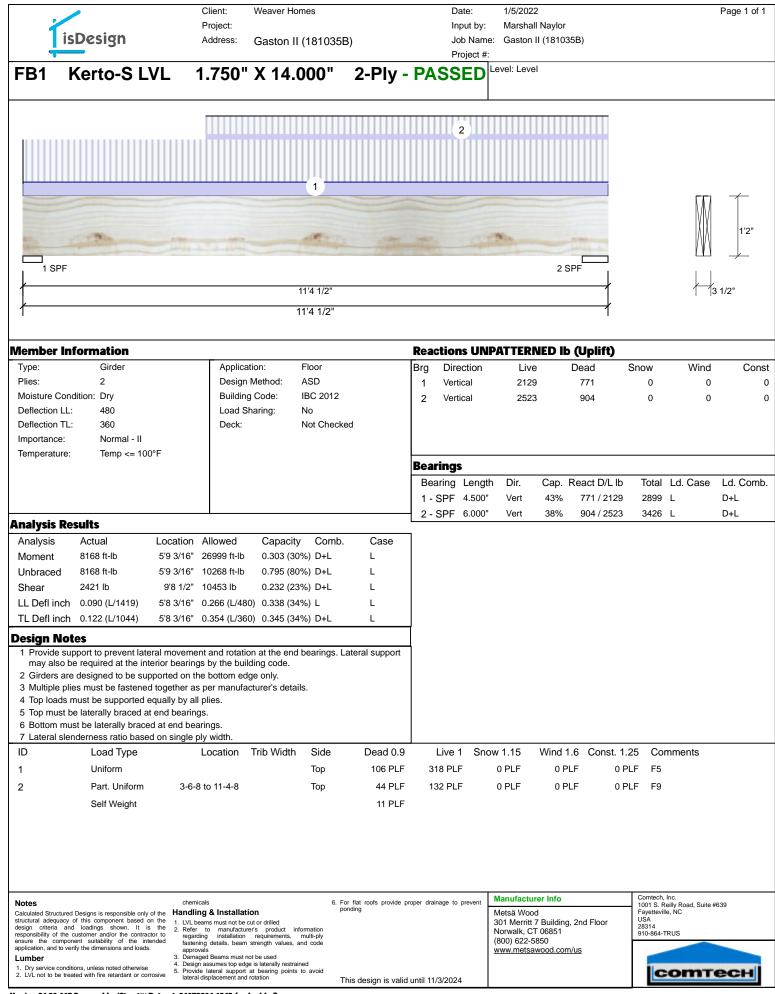
 \triangle = Indicates Left End of Truss (Reference Engineered Truss Drawing) **Do NOT Erect Truss Backwards**

| LOAD CHART FOR JACK STUDS (04556 CN 140255 85025() 1-6() MARKEN JACK STUDS (CC 100 CF | | BUILDER | Weaver Development Co. Inc. | COUNTY | Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | | | |
|---|-----------------------------------|-----------------------------|-----------------------------|--------------------------------|-----------|--|---|---|--|
| | FEADEWEIRDER E Z ŽE E S S S | S LON | JOB NAME | Lot 4 Mitchell Manor Section I | ADDRESS | Wendywood Dr. | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package | соттесн | |
| END REAC | an varia | n da e | PLAN | Gaston II (181035B) 3Car | MODEL | Roof | or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR | |
| 1700 3400 5100 | | 3400 1 6600 2 10200 3 | SEAL DATE | N/A | DATE REV. | 11 | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | TRUSSES & BEAMS Reilly Road Industrial Park | |
| 6800 8500 10200 | | 13600 4 17000 5 | QUOTE # | | DRAWN BY | Marshall Naylor | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. | Fayetteville, N.C. 28309 Phone: (910) 864-8787 | |
| 11900 13600 15300 | 8 | | JOB # | J1221-7072 | SALESMAN | Lenny Norris | Signature Marshall Naylor | Fax: (910) 864-4444 | |

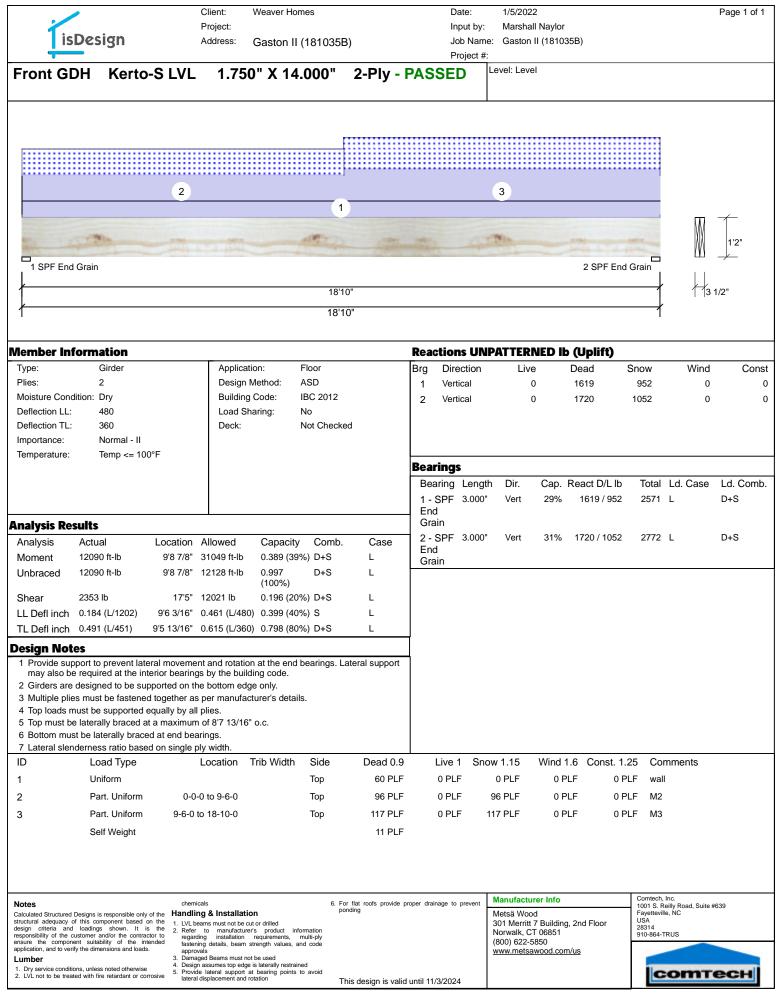
Truss Placement Plan SCALE: 1/4"=1'





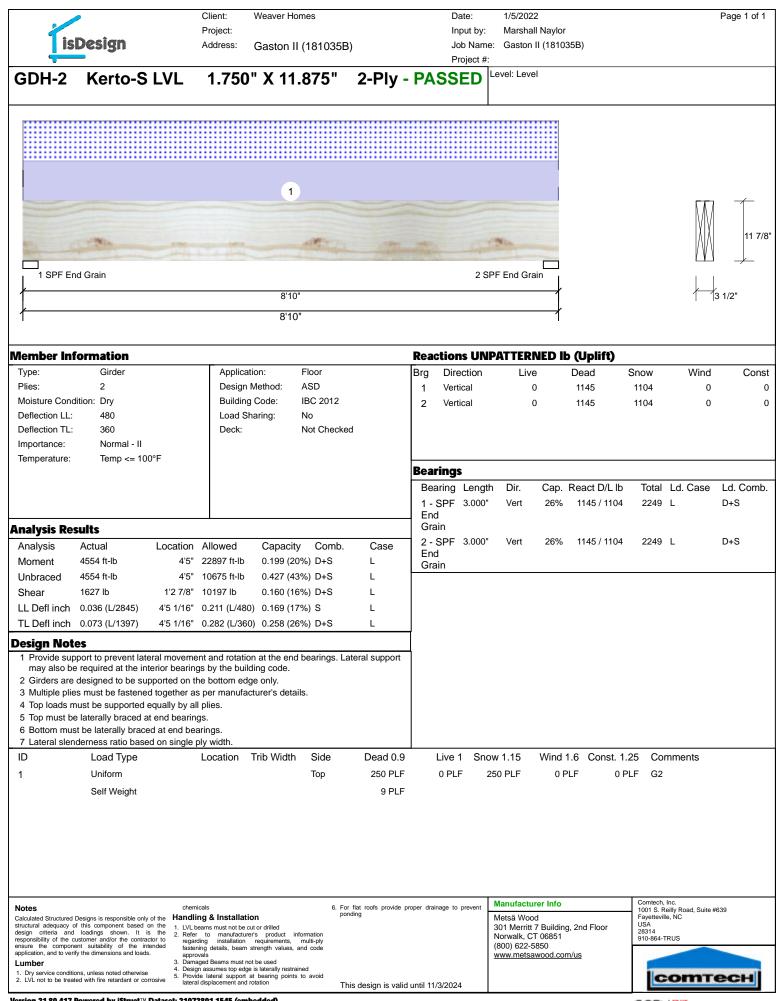


| rsign R Kerto-S LV | | (181035B) 9.250"2-P | Job Nam Project # 'Iy - PASSED | | (181035B) | | |
|---|--|--|---|---|---|---|--|
| | /L 1.750" X | 9.250" 2-P | | | | | |
| 2 | | | | | | | |
| - | 1 | | 3 | | | | 9 |
| | a special second | Stand I little with | CORPORATION OF THE OWNER | | | L | |
| Grain | 6'7" | | 2 SPF End | Grain | | | 3 1/2" |
| | | | | | | I | 15 1/2 |
| | 07 | | | 1 | | | |
| nation | | | Reactions UN | PATTERN | ED Ib (Uplift) | | |
| Girder | Application: | Floor | Brg Direction | Live | Dead | Snow Wir | nd Con |
| 2 | , and the second s | | 1 Vertical | 1060 | 1887 | 1113 | 0 |
| • | = | | 2 Vertical | 1060 | 1887 | 1113 | 0 |
| 360 | , i i i i i i i i i i i i i i i i i i i | | | | | | |
| Normal - II | | | | | | | |
| Temp <= 100°F | | | | | | | |
| | | | | | | | |
| | | | | | • | | |
| | | | End | ven | 34% 1887/1629 | 3516 L | D+0.75(L |
| S | | | Grain | | | | |
| tual Location | Allowed Capacity | Comb. Case | | Vert | 34% 1887 / 1629 | 3516 L | D+0.75(L |
| | | , , , | Grain | | | | |
| | | , , , | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | | | | | | |
| 91 (L/807) 3'3 1/2" | 0.204 (L/360) 0.446 (45) | %) D+0.75(L+S) L | <u> </u> | | | | |
| | | | | | | | |
| uired at the interior bearin gned to be supported on t | gs by the building code. he bottom edge only. s per manufacturer's detail: | | | | | | |
| be supported equally by a erally braced at end bearin laterally braced at end be ess ratio based on single | gs. arings. | | | | | | |
| be supported equally by a erally braced at end bearin laterally braced at end be | gs. arings. | Side Dead (| 0.9 Live 1 Sno | ow 1.15 | Wind 1.6 Const. 1 | .25 Comments | |
| be supported equally by a erally braced at end bearin laterally braced at end be ess ratio based on single | gs. arings. ply width. | Side Dead (Top 108 F | | ow 1.15 | | .25 Comments PLF F4 | |
| be supported equally by a erally braced at end bearin laterally braced at end be ess ratio based on single Load Type | gs. arings. ply width. | | PLF 322 PLF | | 0 PLF 0 F | | |
| be supported equally by a erally braced at end bearin laterally braced at end be ess ratio based on single Load Type Jniform | gs. arings. ply width. | Тор 108 Р | PLF 322 PLF PLF 0 PLF | 0 PLF | 0 PLF 0 F 0 PLF 0 F | PLF F4 | |
| | 2 Dry 480 360 Normal - II Temp <= 100°F S ual Location 9 ft-lb 3'3 1/2" 9 ft-lb 3'3 1/2" 7 lb 1'3/4" 42 (L/1741) 3'3 1/2" 01 (L/807) 3'3 1/2" to prevent lateral movementiated at the interior bearing gned to be supported on t | 6'7" 6'7" 6'7" 6'7" Application: I Design Method: Application: I David Method: Application: I Design Method: Application: I David Sharing: Deck: I Normal - II Temp <= 100°F | 6'7" Girder Application: Floor 2 Dry Design Method: ASD 80 Building Code: IBC 2012 Load Sharing: No 360 Deck: Not Checked Deck: Not Checked Normal - II Temp <= 100°F Deck: Not Checked Deck: Not Checked s ual Location Allowed Capacity Comb. Case 9 ft-lb 3'3 1/2" 14423 ft-lb 0.347 (35%) D+0.75(L+S) L D 9 ft-lb 3'3 1/2" 0.451 ft-lb 0.479 (48%) D+0.75(L+S) L L 12 (L/1741) 3'3 1/2" 0.153 (L/480) 0.276 (28%) 0.75(L+S) L L 24 (L/807) 3'3 1/2" 0.204 (L/360) 0.446 (45%) D+0.75(L+S) L L | 6'7" 9 6'10" 9 10" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 11" 12" 14" 14" <tr< th=""><th>6'7"6'7"6'7"Reactions UNPATTERNGirderApplication:Floor2Design Method:ASDBuilding Code:IBC 2012Load Sharing:No360Deck:Not CheckedNormal - IITemp <= 100°FBearing Length Dir.1 - SPF 3.500" VertualLocationAllowedCapacityComb.Case9 ft-lb3'3 1/2"14423 ft-lb0.347 (35%) D+0.75(L+S) L9 ft-lb3'3 1/2"10451 ft-lb0.479 (48%) D+0.75(L+S) L9 ft-lb3'3 1/2"0.153 (L/480)0.276 (28%) 0.75(L+S) L10 ft (J&07)3'3 1/2"0.153 (L/480)0.276 (28%) 0.75(L+S) LTo prevent lateral movement and rotation at the end bearings. Lateral supportized at the interior bearings by the building code.gnainapp of to be supported on the bottom edge only.Lateral support</th><th>67" 67" 67" Girder Application: Floor 2 Design Method: ASD Building Code: IBC 2012 Load Sharing: No 360 Deck: Not Checked 1 Vertical 1060 1887 360 Deck: Not Checked Earings Earings Earing Earing Earing Bearing Earing Earing</th><th>67" Girder Application: Floor Dry Design Method: ASD Building Code: IBC 2012 Load Sharing: No 2 Desk: Not Checked 1 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 360 Deck: Not Checked Not Deck: Not Checked Earing Earing Earing Earing Earing 1060 1887 1113 104 Capa Ctp (Capa Ctp (</th></tr<> | 6'7"6'7"6'7"Reactions UNPATTERNGirderApplication:Floor2Design Method:ASDBuilding Code:IBC 2012Load Sharing:No360Deck:Not CheckedNormal - IITemp <= 100°FBearing Length Dir.1 - SPF 3.500" VertualLocationAllowedCapacityComb.Case9 ft-lb3'3 1/2"14423 ft-lb0.347 (35%) D+0.75(L+S) L9 ft-lb3'3 1/2"10451 ft-lb0.479 (48%) D+0.75(L+S) L9 ft-lb3'3 1/2"0.153 (L/480)0.276 (28%) 0.75(L+S) L10 ft (J&07)3'3 1/2"0.153 (L/480)0.276 (28%) 0.75(L+S) LTo prevent lateral movement and rotation at the end bearings. Lateral supportized at the interior bearings by the building code.gnainapp of to be supported on the bottom edge only.Lateral support | 67" 67" 67" Girder Application: Floor 2 Design Method: ASD Building Code: IBC 2012 Load Sharing: No 360 Deck: Not Checked 1 Vertical 1060 1887 360 Deck: Not Checked Earings Earings Earing Earing Earing Bearing Earing Earing | 67" Girder Application: Floor Dry Design Method: ASD Building Code: IBC 2012 Load Sharing: No 2 Desk: Not Checked 1 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 2 Vertical 1060 1887 1113 360 Deck: Not Checked Not Deck: Not Checked Earing Earing Earing Earing Earing 1060 1887 1113 104 Capa Ctp (Capa Ctp (|

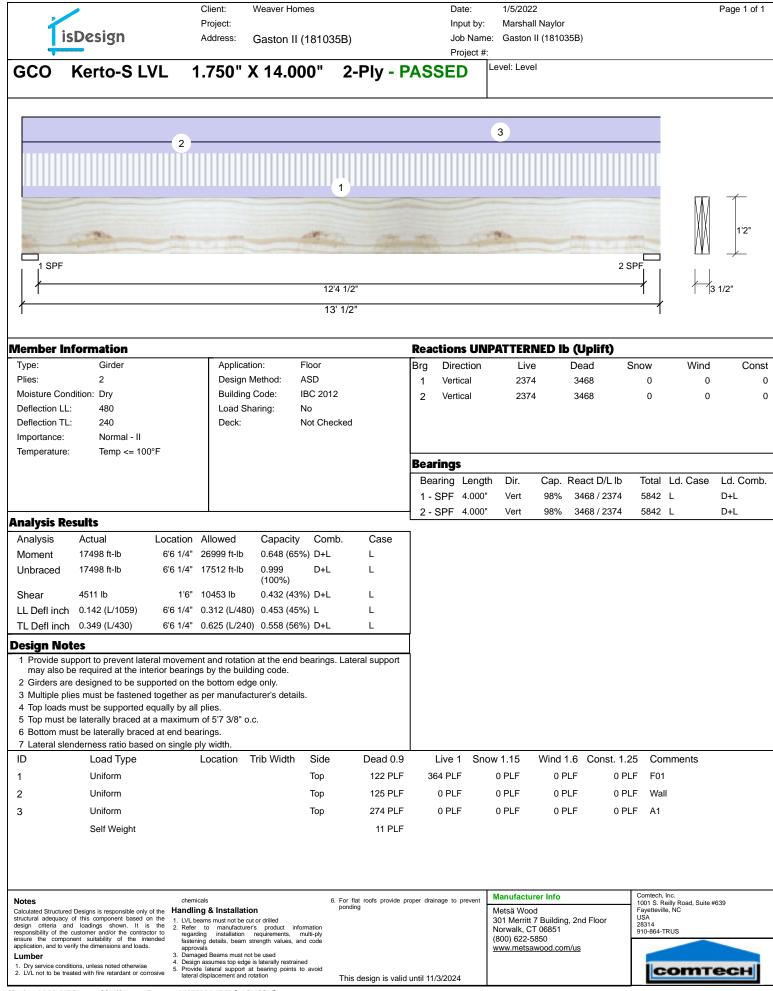


| 2 | • | Client: Project: | Weaver Ho | mes | | Date: Input by | 1/5/2022 /: Marshall | | | | Page 1 of |
|--|--|--|--|--|----------------------|----------------------|--|--|---|--|--------------|
| isl | Design | Address: | Gaston II | (181035B) | | | me: Gaston I | - | | | |
| | | | | | | Project | | | | | |
| Nindow | Hdr. Kerto | -S LVL 1 | .750" X | 14.000" | 2-Ply | - PASSED | Level: Leve | | | | |
| 2 1 SPF Enc | 6 3 4 | 6'10" | 12 | 5 SPF End Grain | | | | | | | 1'2" |
| , | | 6'10" | | | \rightarrow | | | | | 1 1 | 5 172 |
| I | | 010 | | | I | | | | | | |
| /lember inf | ormation | | | | | Deactions III | | IED Ib (Uplift) | <u> </u> | | |
| Type: | Girder | Applic | ation: | Floor | | Brg Direction | | | Snow | Wind | Cor |
| Plies: | 2 | Desig | n Method: | ASD | | 1 Vertical | 2861 | 3387 | 1990 | 0 | |
| Moisture Cond | • | | ng Code: | IBC 2012 | | 2 Vertical | 873 | 1906 | 1168 | 0 | |
| Deflection LL: Deflection TL: | 480 360 | Load Deck: | Sharing: | No Not Checked | | | | | | | |
| Importance: | Normal - II | Deck. | | | | | | | | | |
| Temperature: | Temp <= 100°F | | | | | | | | | | |
| lompolataioi | ionip i loo l | | | | | Bearings | | | | | |
| | | | | | | Bearing Leng | gth Dir. | Cap. React D/L | lb Tota | al Ld. Case | Ld. Com |
| | | | | | | 1 - SPF 3.00 | | 80% 3387 / 36 | | 5 L | D+0.75(L |
| | | | | | | End | | | | | (|
| Analysis Res | sults | | | | | Grain | o") <i>((</i> | 000/ 1000/15 | | | D 0 754 |
| Analysis | | ocation Allowed | Capacity | Comb. | Case | 2 - SPF 3.000 End | 0" Vert | 39% 1906 / 15 | 31 343 | 7 L | D+0.75(L |
| Moment | 11172 ft-lb | 2' 31049 ft-lb | 0.360 (36 | %) D+0.75(L+ | S) L | Grain | | | | | |
| Unbraced | 11172 ft-lb | 2' 15767 ft-lb | ` | %) D+0.75(L+ | | | | | | | |
| Shear | 6407 lb | 1'5" 12021 lb | 0.533 (53 | %) D+0.75(L+ | S) L | | | | | | |
| LL Defl inch | 0.033 (L/2343) | 2'7 5/8" 0.161 (L/4 | 80) 0.205 (20 | %) 0.75(L+S) | L | | | | | | |
| TL Defl inch | 0.067 (L/1165) | 2'8 7/8" 0.215 (L/3 | 60) 0.309 (31 | %) D+0.75(L+ | S) L | | | | | | |
| Design Note | es | | | | | | | | | | |
| 1 Provide sup | port to prevent lateral | movement and rota | ion at the end | bearings. Late | ral support | | | | | | |
| | required at the interio designed to be suppor | | | | | | | | | | |
| | s must be fastened to | | • • | ls. | | | | | | | |
| 4 Top loads m | ust be supported equa | ally by all plies. | | | | | | | | | |
| | laterally braced at en | • | | | | | | | | | |
| | t be laterally braced at derness ratio based or | • | | | | | | | | | |
| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 Si | now 1.15 | Wind 1.6 Const | . 1.25 C | omments | |
| | Uniform | | | Тор | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF W | /ALL | |
| 1 | | 0-0-0 to 2-0-0 | 1-0-0 | Тор | 20 PSF | 0 PSF | 20 PSF | | 0 PSF 2' | | |
| | lie-In | | | Тор | 1040 lb | 3115 lb | 0 lb | 0 lb | 0 lb F | | |
| 1 2 3 | Tie-In Point | 1-9-8 | | | 101010 | 011010 | 0.0 | 010 | | | |
| 2 | Point | 1-9-8 0-3-8 | | | | | | | | | |
| 2 3 | Point Bearing Length | 0-3-8 | | Top | 2385 lb | 0 lb | 2385 lb | 0 lb | 0 lb C | 3 | |
| 2 3 | Point Bearing Length Point | 0-3-8 2-0-0 | | Тор | 2385 lb | 0 lb | 2385 lb | 0 lb | 0 lb C | 3 | |
| 2 3 4 | Point Bearing Length Point Bearing Length | 0-3-8 | | Тор | 2385 lb | 0 lb | 2385 lb | 0 lb | 0 lb C | 3 | |
| 2 3 4 | Point Bearing Length Point Bearing Length | 0-3-8 2-0-0 | | Тор | 2385 lb | 0 lb | 2385 lb | 0 lb | 0 lb C | 3 | |
| 2 3 4 ontinued on pag | Point Bearing Length Point Bearing Length | 0-3-8 2-0-0 | | 6. For fla | at roofs provide pro | 0 lb | Manufactur | | Comted | ch, Inc. | +639 |
| 2 3 4 ontinued on pag Notes Calculated Structured I | Point Bearing Length Point Bearing Length ge 2 | 0-3-8 2-0-0 0-3-8 chemicals Handling & Installa | | | at roofs provide pro | | Manufactur Metsä Wood | er Info | Comted 1001 S Fayette | | 4639 |
| 2 3 4 ontinued on page Notes Calculated Structured I design criteria and design criteria and | Point Bearing Length Point Bearing Length ge 2 | 0-3-8 2-0-0 0-3-8 Handling & Installa 1. LVL beams must not b 2. Refer_ to manufact | e cut or drilled urer's product inf | 6. For fla pondin | at roofs provide pro | | Manufactur Metsä Wood 301 Merritt 7 Norwalk, CT | er Info I Building, 2nd Floor 06851 | Comter 1001 S Fayette USA 28314 | ch, Inc. . Reilly Road, Suite ⊧ | 1639 |
| 2 3 4 ontinued on pag Notes Datculated Structured I tructural adequacy of lesign oriteria and esponsibility of the cu nsure the compone | Point Bearing Length Point Bearing Length ge 2 | 0-3-8 2-0-0 0-3-8 Handling & Installatio 2. Refer to manufact 2. Refer to manufact | e cut or drilled urer's product int n requirements, | 6. For fla pondin ormation multi-ply | at roofs provide pro | | Manufactur Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-56 | er Info I Building, 2nd Floor 06851 50 | Comter 1001 S Fayette USA 28314 | ch, Inc. . Reilly Road, Suite a sville, NC | <i>1</i> 639 |
| 2 3 4 ontinued on page laculated Structured I ractured and seponsibility of the cu- nsure the compone pplication, and to verifi- umber | Point Bearing Length Point Bearing Length ge 2 Designs is responsible only of the f this component based on the function of the contractor to loadings shown. It is the ustomer and/or the contractor to ustuability of the intended | 0-3-8 2-0-0 0-3-8 Handling & Installa 1. UV beams must not b 2. Refer to manufact regarding installation | e cut or drilled urer's product int n requirements, n strength values, a not be used | 6. For fit pondin ormation multi-ply nd code | at roofs provide pro | | Manufactur Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-56 | er Info I Building, 2nd Floor 06851 | Comter 1001 S Fayette USA 28314 | ch, Inc. . Reilly Road, Suite a sville, NC | 4639 |

| 1 | Client: Weaver Homes Project: | Date: Input by | 1/5/2022 : Marshall Naylor | Page 2 of 2 |
|---|---|--------------------------------------|---|--|
| isDesign | Address: Gaston II (181 | 035B) Job Nan Project # | | |
| Window Hdr. Kerto- | S LVL 1.750" X 14.0 | 000" 2-Ply - PASSED | | |
| | 1 5 | | | M T |
| and the second | The state of the | 2.73 | | 1'2" |
| 1 SPF End Grain | 2 SPF E | End Grain | | |
| / / | 6'10" | | | 3 1/2" |
| 1 | 6'10" | | | |
| Continued from page 1 ID Load Type 5 Part. Uniform 6 Part. Uniform | Location Trib Width Sic 2-3-0 to 6-10-0 Top 2-3-0 to 0-0-0 Top | 160 PLF 0 PLF | now 1.15 Wind 1.6 Const. 1. 160 PLF 0 PLF 0 F 0 PLF 0 PLF 0 F | LF C2 |
| Self Weight | | 11 PLF | | |
| | | | | Contect Inc |
| Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber | LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used Design assumes top edge is laterally restrained | | Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS |
| Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive Version 21.80.417 Powered by iStruct TM Datase | Provide lateral support at bearing points to avoid lateral displacement and rotation | This design is valid until 11/3/2024 | | ССОПТЕСН |



Version 21.80.417 Powered by iStruct™ Dataset: 21072801.1545 (embedded)



Version 21.80.417 Powered by iStruct™ Dataset: 21072801.1545 (embedded)