PLANS DESIGNED TO THE **2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE**

| MEAN ROOF HEIGHT: 19'-0 |)" | HEIGHT TO F | RIDGE: 26'-10" |
|----------------------------|------------|-------------|----------------|
| 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 |
| * CDAWL SDACE WALL D-VALUE | 5/13 | 10/15 | 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 wind speed of 120 MPH, 3 second gust (93 fastest mile) exposure "B COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS
 MEAN ROOF
 UP TO 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

| | 14.2 | -T2'0 | 14.3 | -12.0 | T2'2 | -10.4 | 17.2 | -10.01 |
|--------|------|-------|------|-------|------|-------|------|--------|
| 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 |
| | | | | | | | | |

ROOF VENTILATION

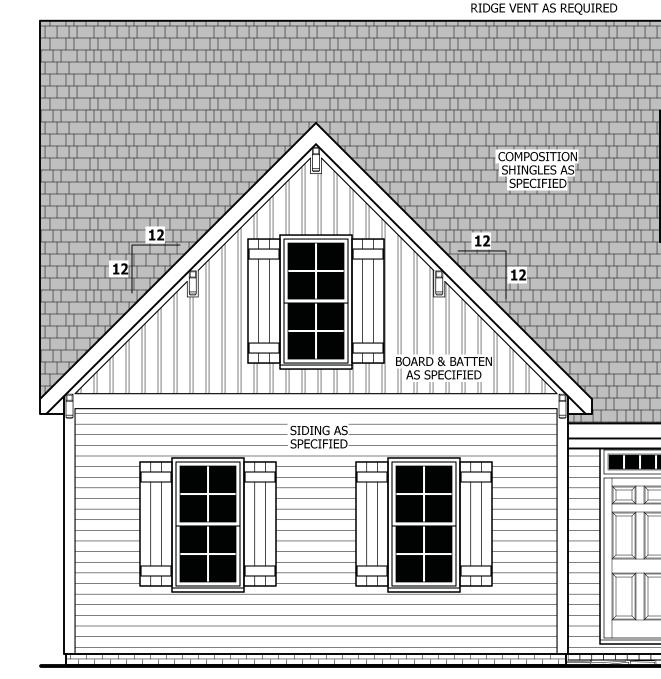
SECTION R806

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,634 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 17.56 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 8.78 SQ.FT.

| SQUARE | FOOTAGE |
|--------|---------|
| HEATED | |

| FIRST FLOOR | 1800 SQ.FT. |
|-------------|-------------|
| PLAYROOM | 263 SQ.FT. |
| ΓΟΤΑL | 2063 SQ.FT. |
| UNHEATED | - |
| RONT PORCH | 138 SQ.FT. |
| GARAGE | 479 SQ.FT. |
| Rear Porch | 207 SQ.FT. |
| ΓΟΤΑL | 824 SQ.FT. |
| | |





RIDGE VENT AS REQUIRED

⊣12⊥́

| SIDING AS SPECIFIED | | | SIDING A |
|------------------------|-----|---|----------|
| | DAT | D | |

RAIL AS NEEDED PER CODE



SECTION R312

R312.1 Where required. *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions:

1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

2. Where the top of the *guard* also serves as a handrail on the open sides of stairs, the top of the guard shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required *guard* height which allow passage of a sphere 4 inches (102 mm)in diameter. Exceptions:

1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.

2. *Guards* on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.

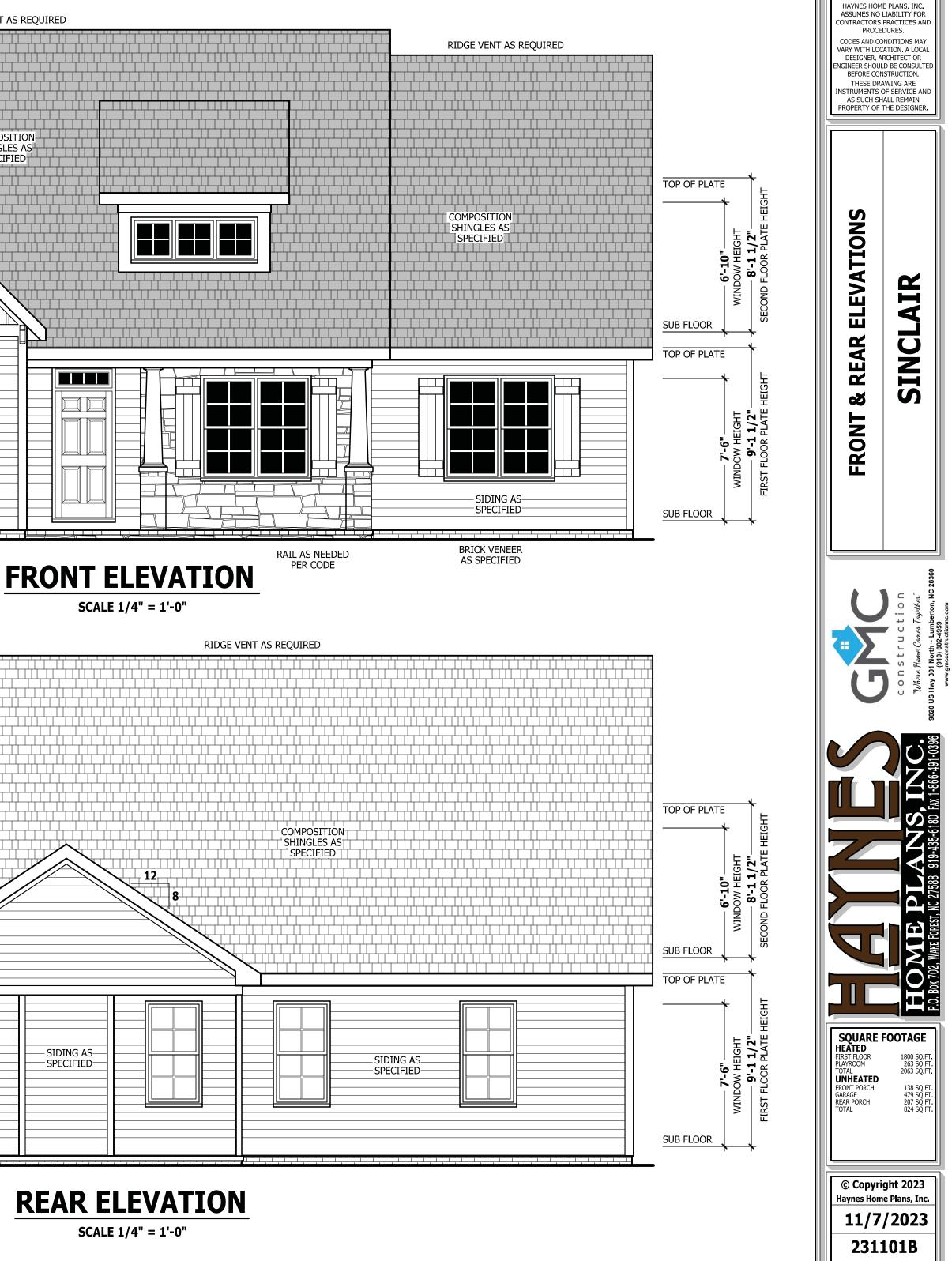
AIR LEAKAGE

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.

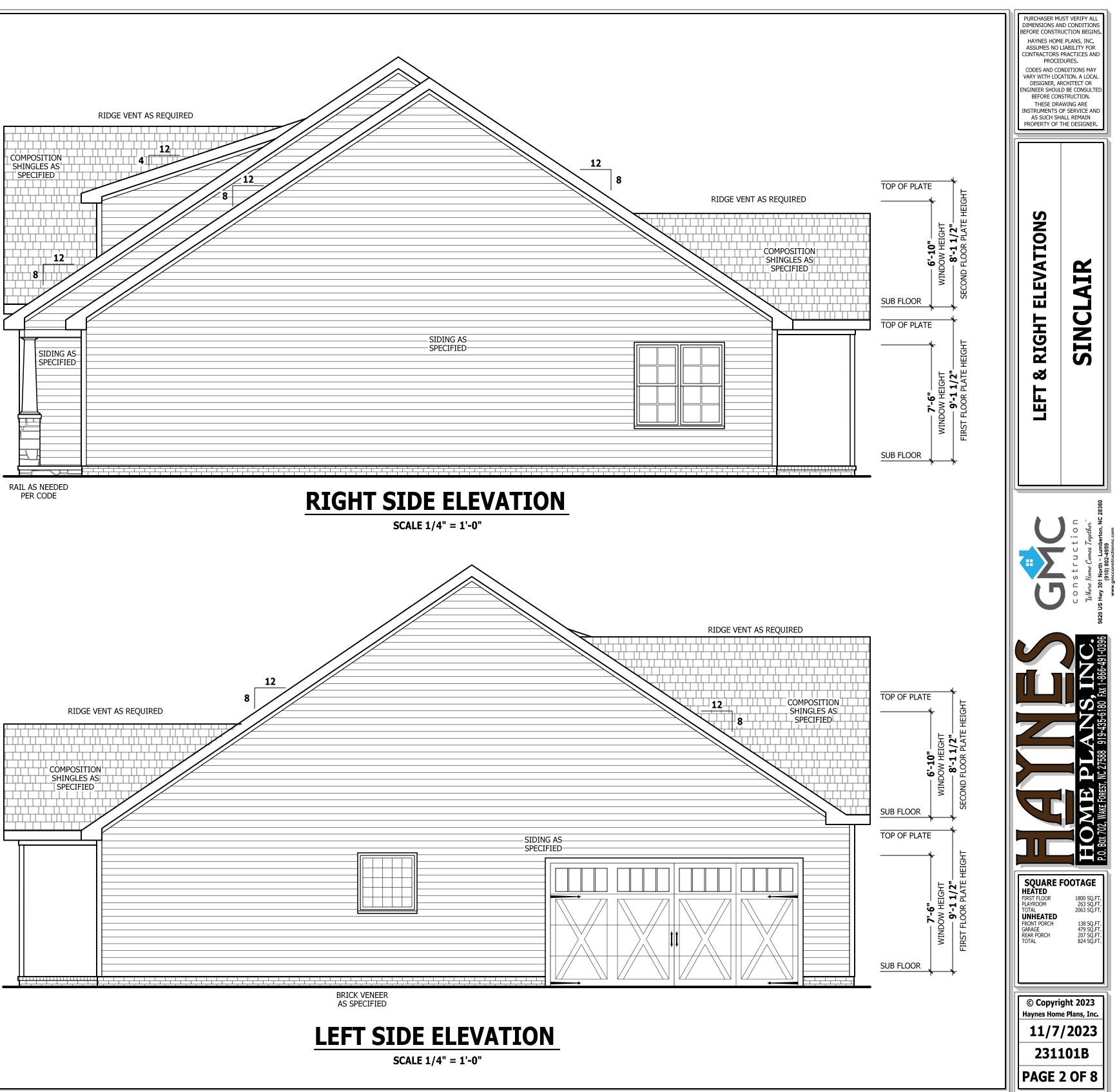


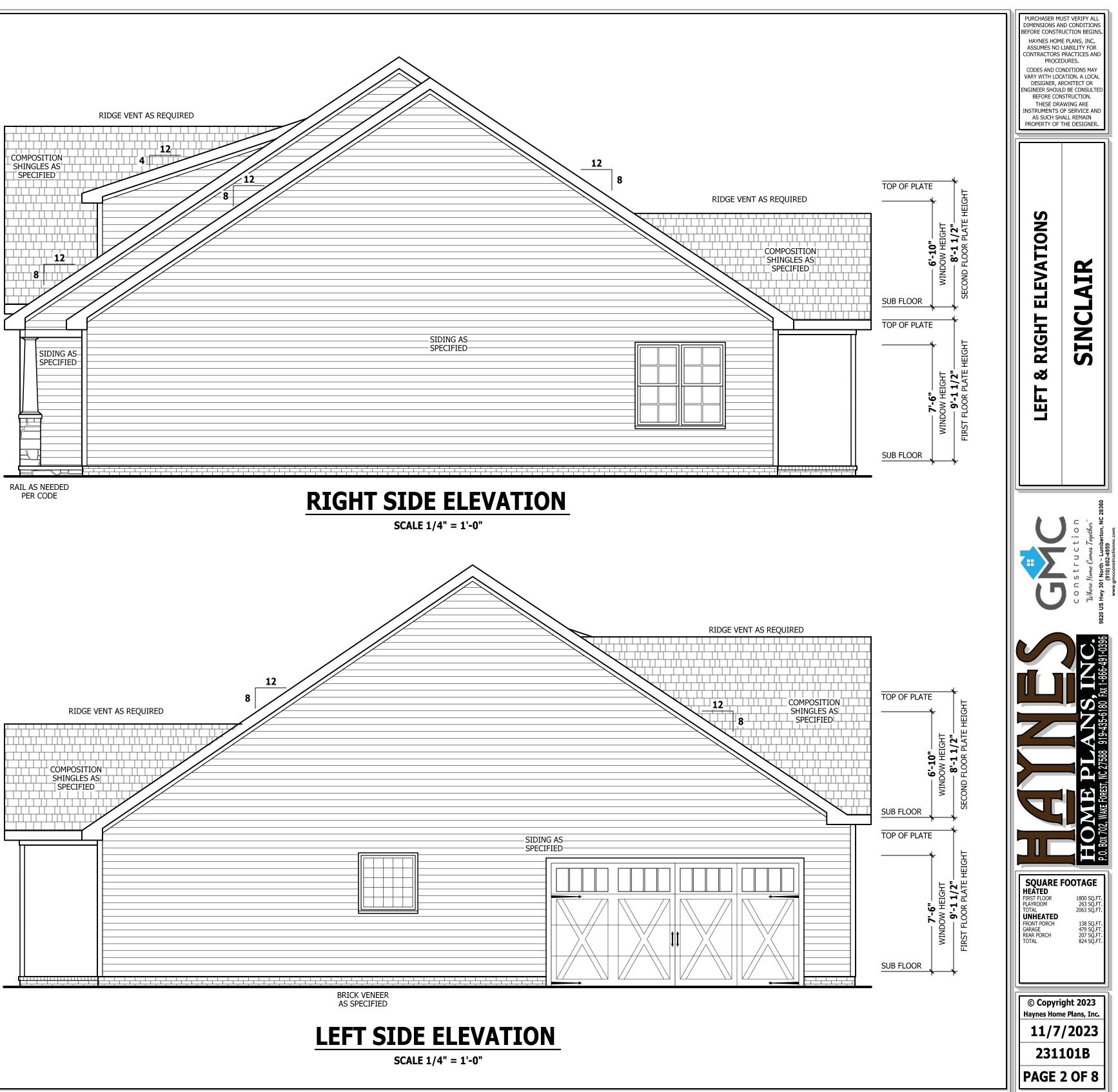


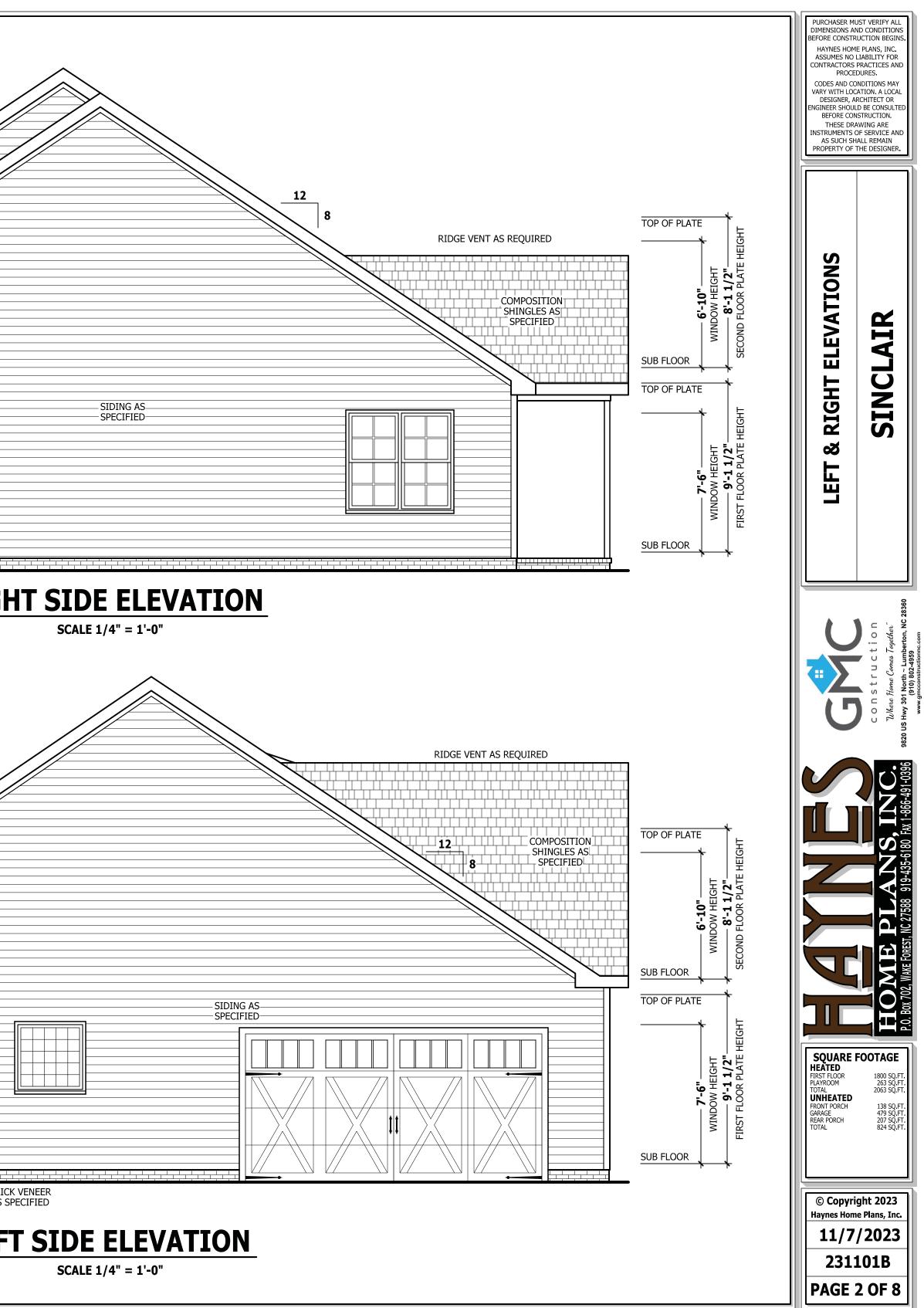
PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS

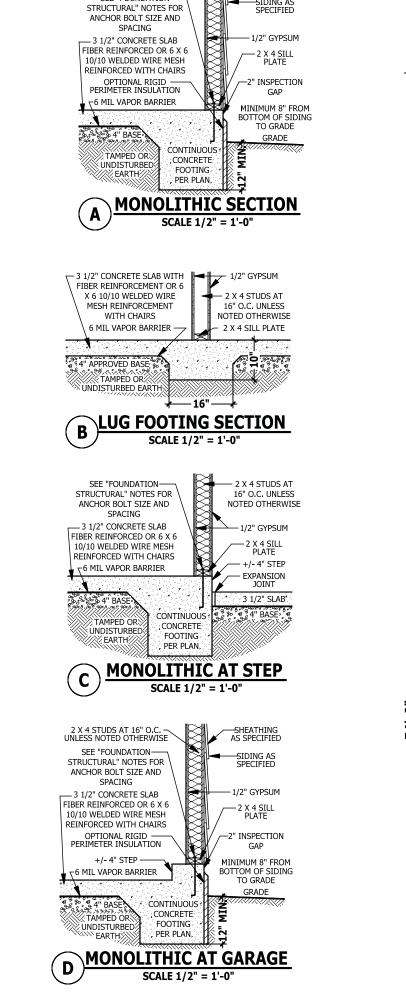
SEFORE CONSTRUCTION BEGINS

PAGE 1 OF 8









2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE

SEE "FOUNDATION-

-SHEATHING AS SPECIFIED

-SIDING AS SPECIFIED

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.

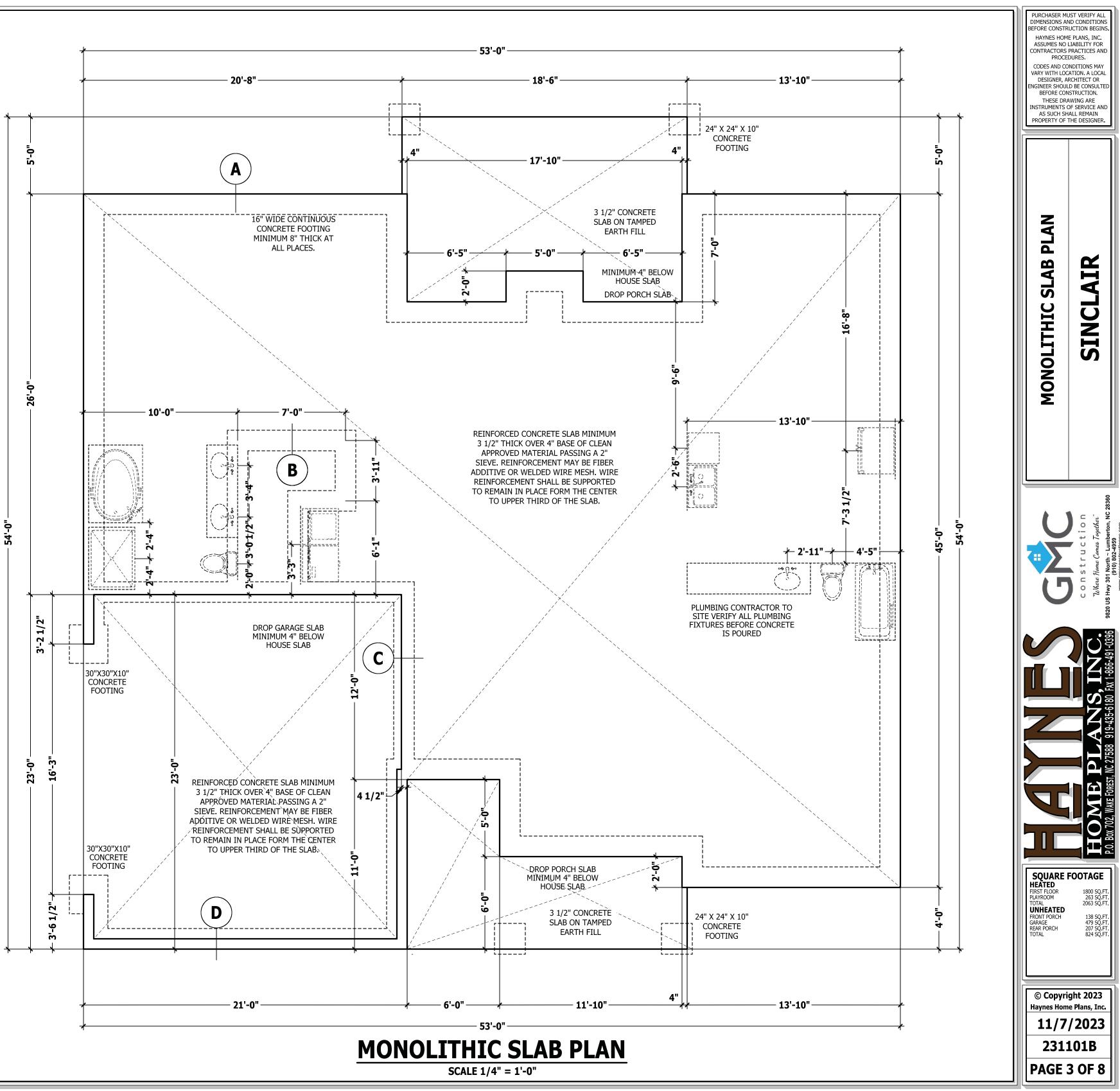
POINT LOADS: designates significant point load and should have solid blocking to pier, girder or foundation wall.

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.

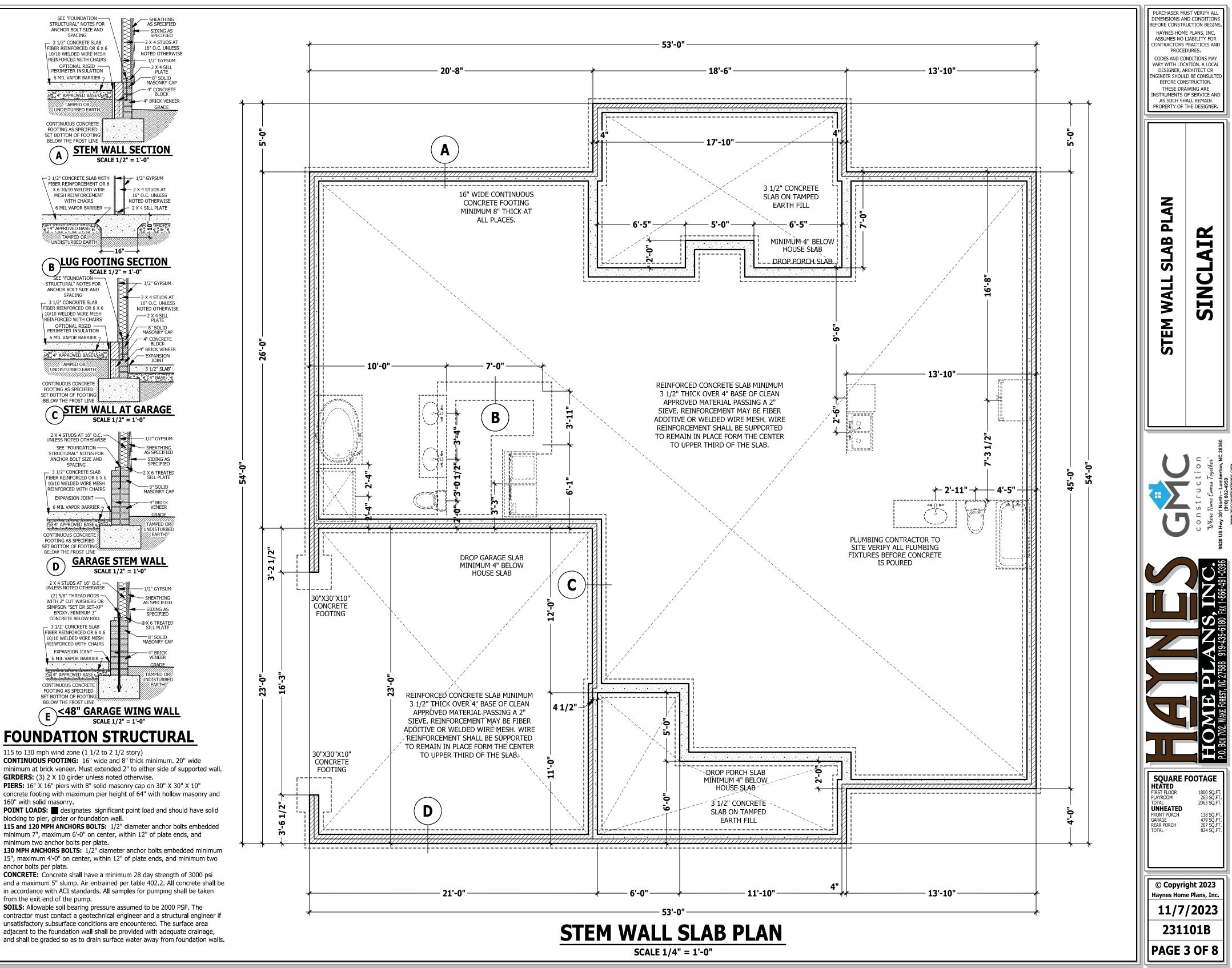
130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

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.



C:\Users\micha\Desktop\231101B Sinclair.a



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.

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.

ATTIC ACCESS

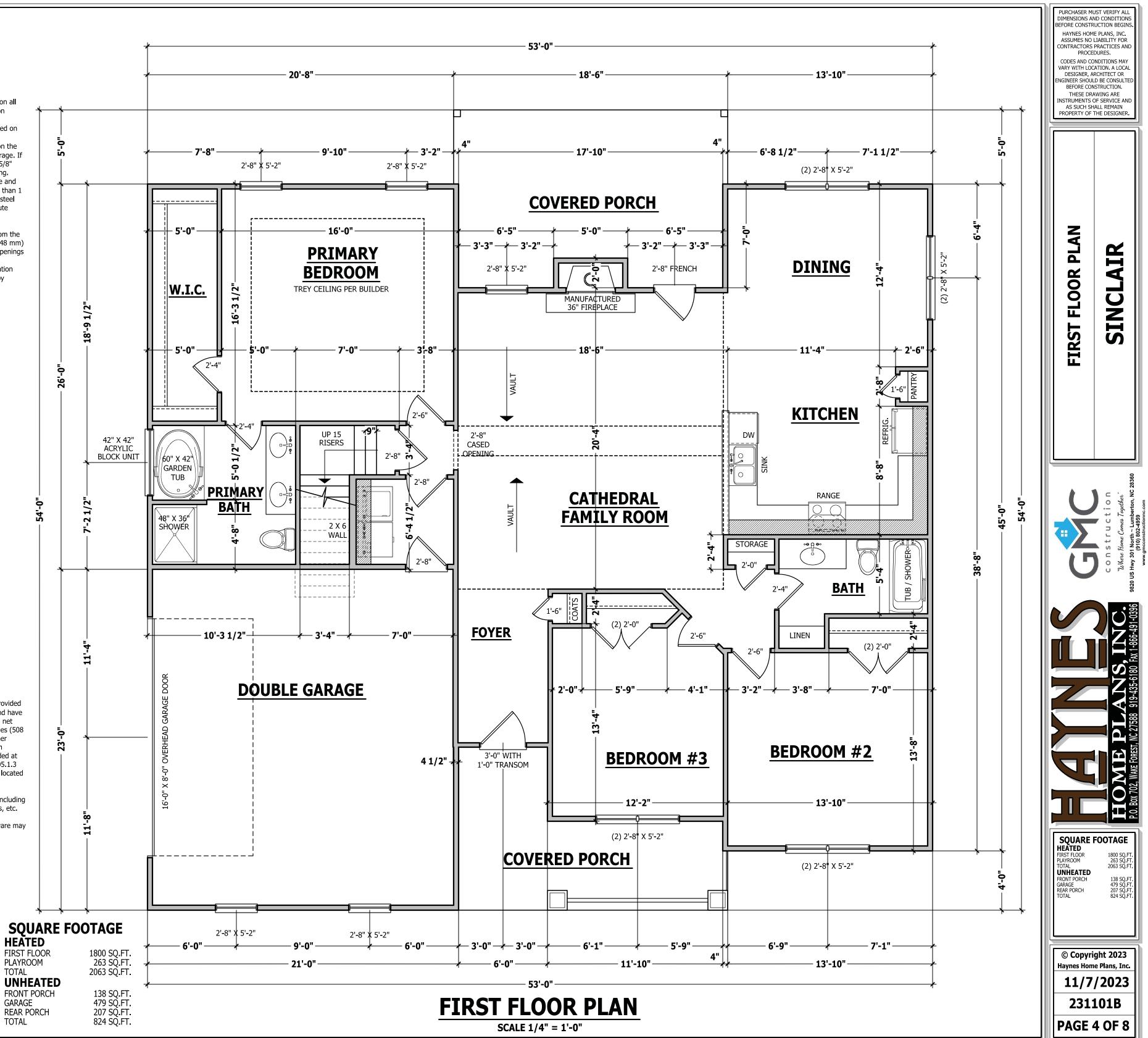
SECTION R807

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.

 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.

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.

| DESIGN LOADS | LIVE LOAD | 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= $1.9x10^{6}$ PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E= $2.0x10^{6}$ 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 7/16" 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" long 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.

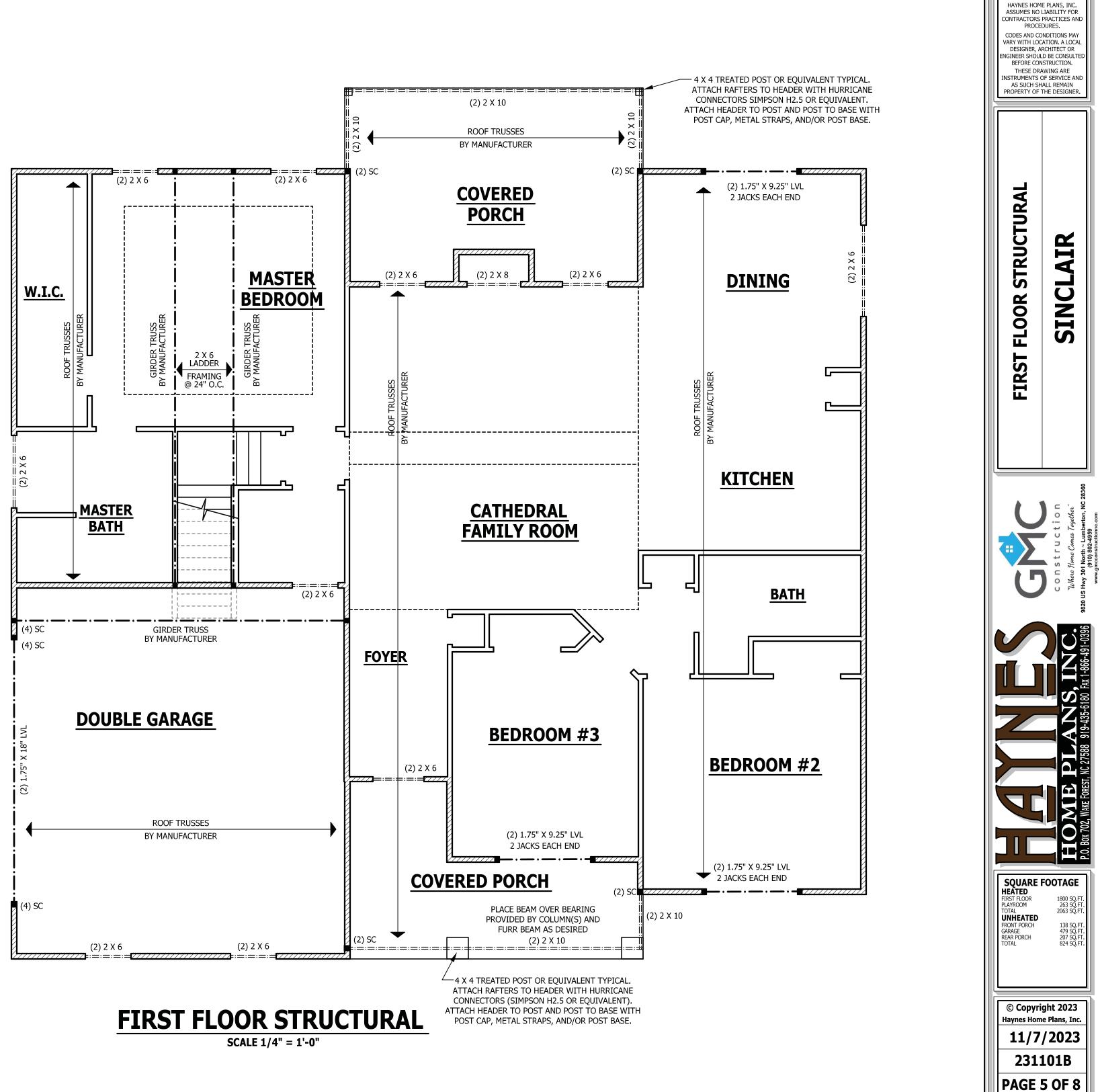
GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

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



PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS SEFORE CONSTRUCTION BEGINS

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| • | 5 | | |
|------------------------------|-----------|-----------|------------|
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| 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.

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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.

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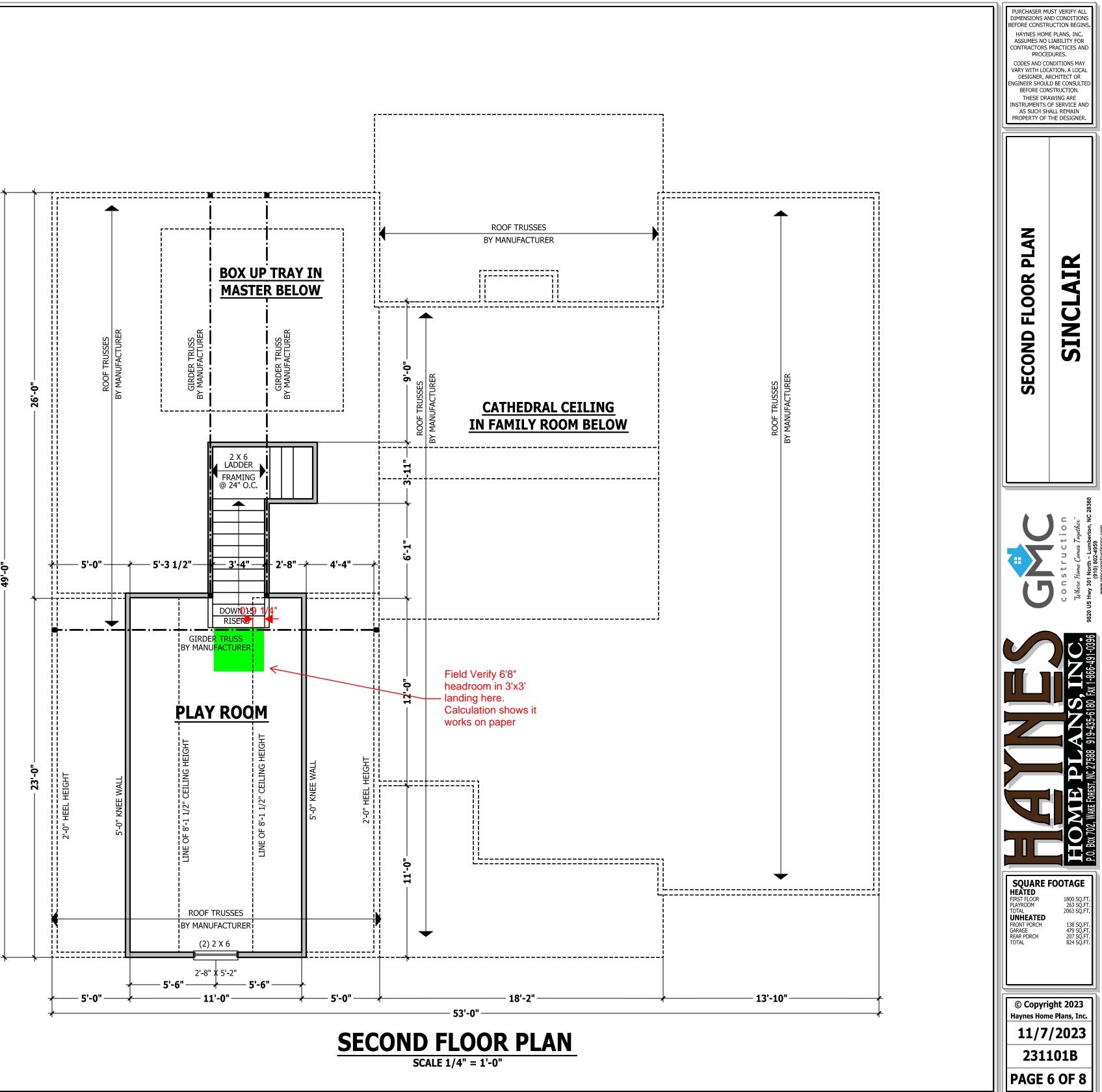
EXTERIOR HEADERS

- (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

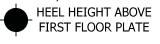


ROOF TRUSS REQUIREMENTS

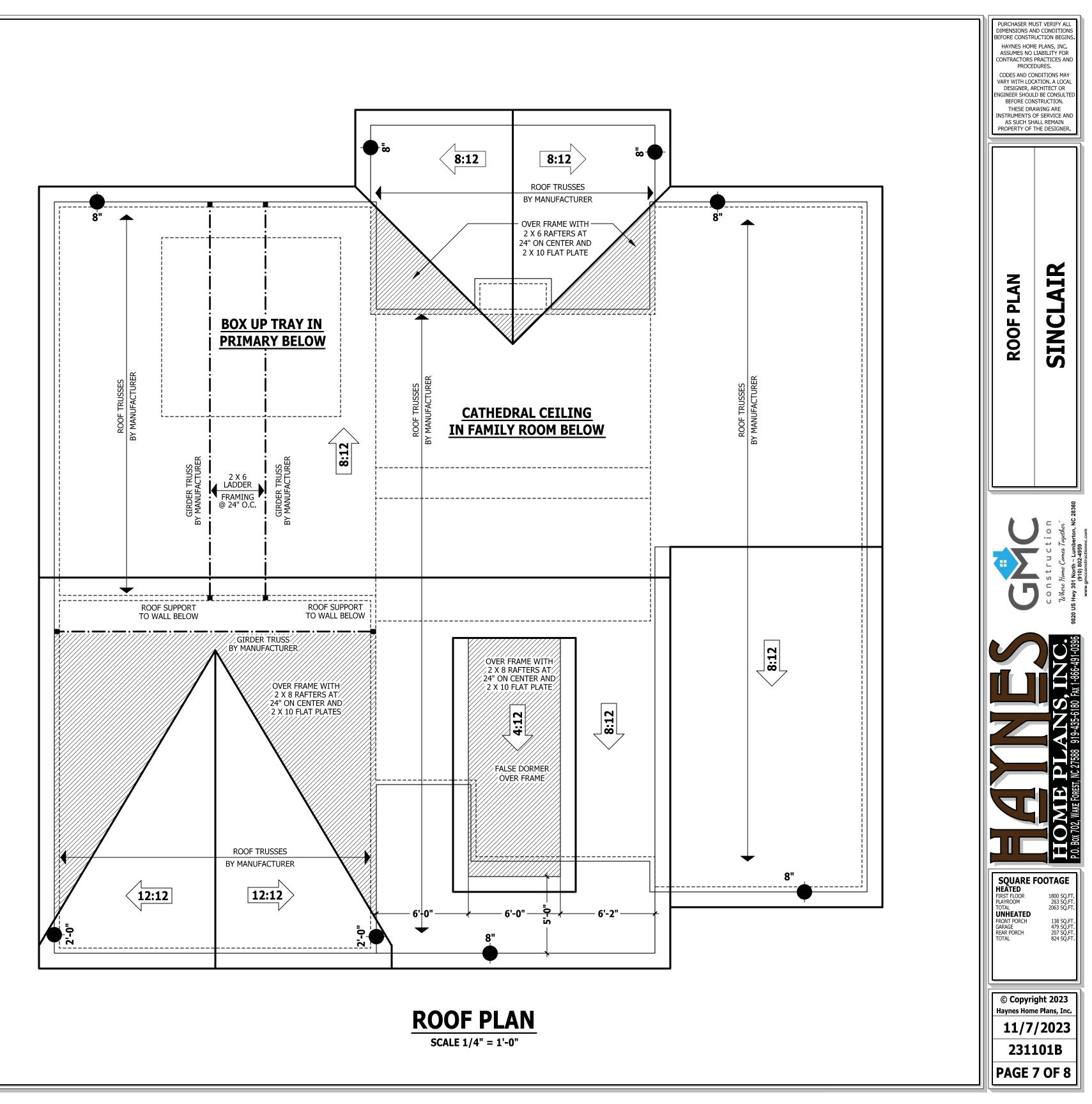
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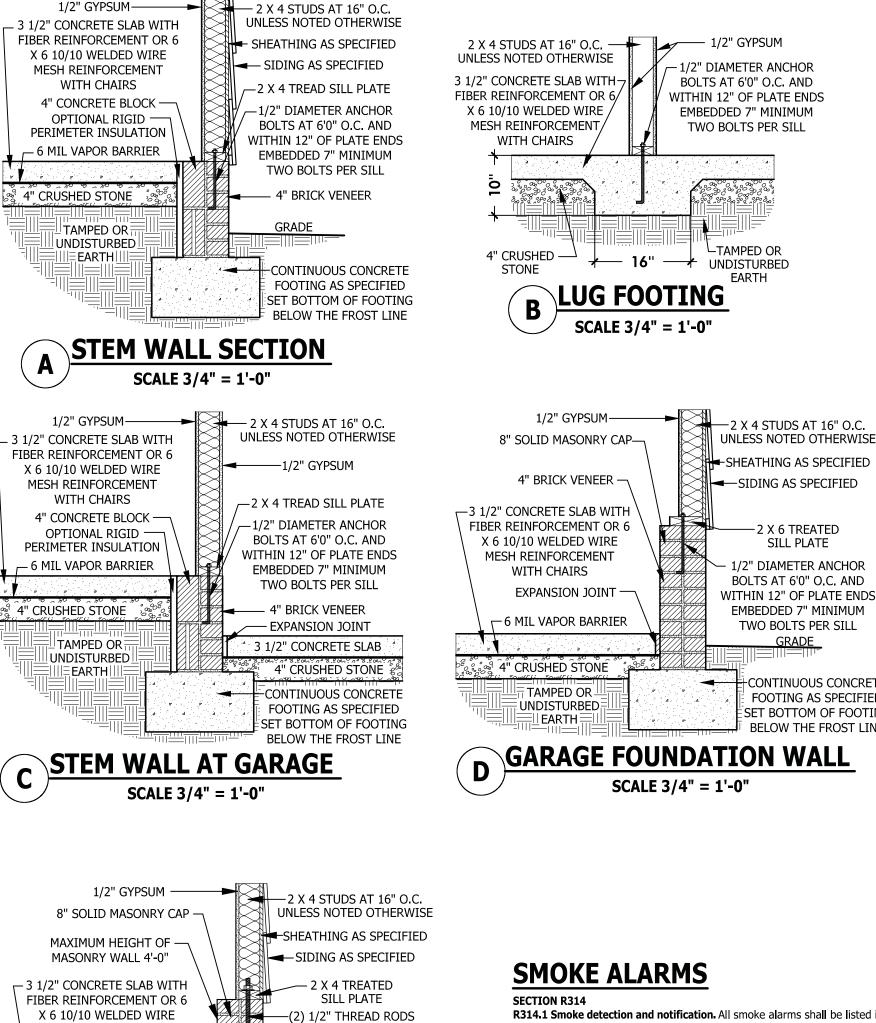
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

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









WITH 2" CUT WASHERS

OR SIMPSON "SET OR

SET-XP" EPOXY.

MINIMUM 3" CONCRETE

BELOW ROD.

GRADE

CONTINUOUS CONCRETE

FOOTING AS SPECIFIED

SET BOTTOM OF FOOTING

BELOW THE FROST LINE

-CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE

R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning *equipment* provisions of NFPA 72. R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an *approved* supervising station and be maintained in accordance with NFPA 72. Exception: Where smoke alarms are provided meeting the requirements of

Section R314.4. R314.3 Location. Smoke alarms shall be installed in the following locations:

1. In each sleeping room. 2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.

3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In dwellings or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual *dwelling* unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

R314.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.

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.

DWELLING / GARAGE SEPARATION

exposed sides of all stairways. fire-rated doors. into the garage

R311.7

of the stairway. rugs or runners Exceptions:

heiaht. handrails. Exceptions

CARBON MONOXIDE ALARMS

48" OR LESS GARAGE WING WALL

SCALE 3/4" = 1'-0"

SECTION R315

Ε

MESH REINFORCEMENT

WITH CHAIRS

EXPANSION JOINT

— 6 MIL VAPOR BARRIER

TAMPED OR-

UNDISTURBED

EARTH

င္နွိ္င္လွိ္င္အို 4" CRUSHED STONE

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 by the alarm manufacturer.

R315.2 Where required in existing dwellings. In existing dwellings, where 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 315.1.

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 UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

С

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

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

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

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

STAIRWAY NOTES

R311.7.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion

R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets,

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 the adjacent treads.

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical 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 minimum tread depth of 4 inches (102 mm) at any point. 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 risers.

R311.7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers. **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).

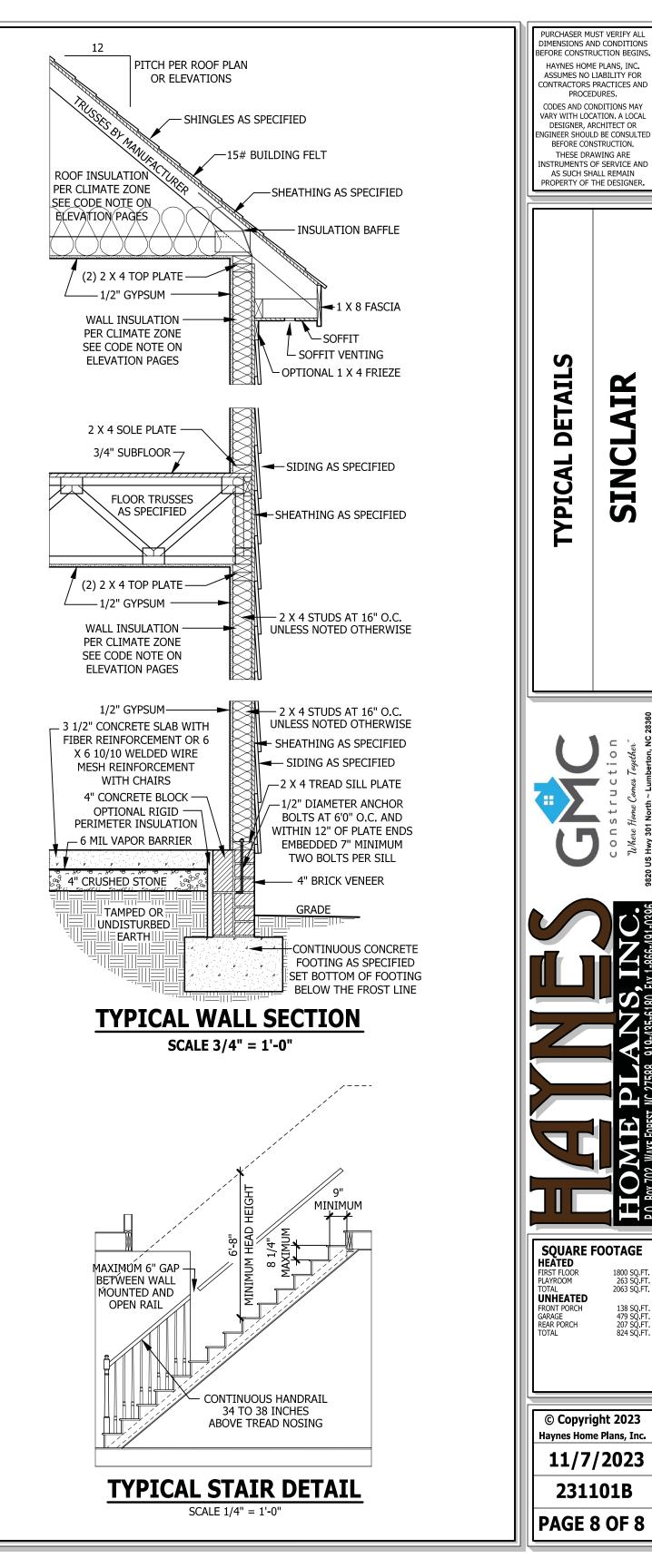
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.

2. When handrail fittings or bendings are used to provide continuous 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 be permitted to exceed the maximum

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 adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the

1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Two or more separate rails shall be considered continuous if the 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 wall-mounted rail must return into the wall.

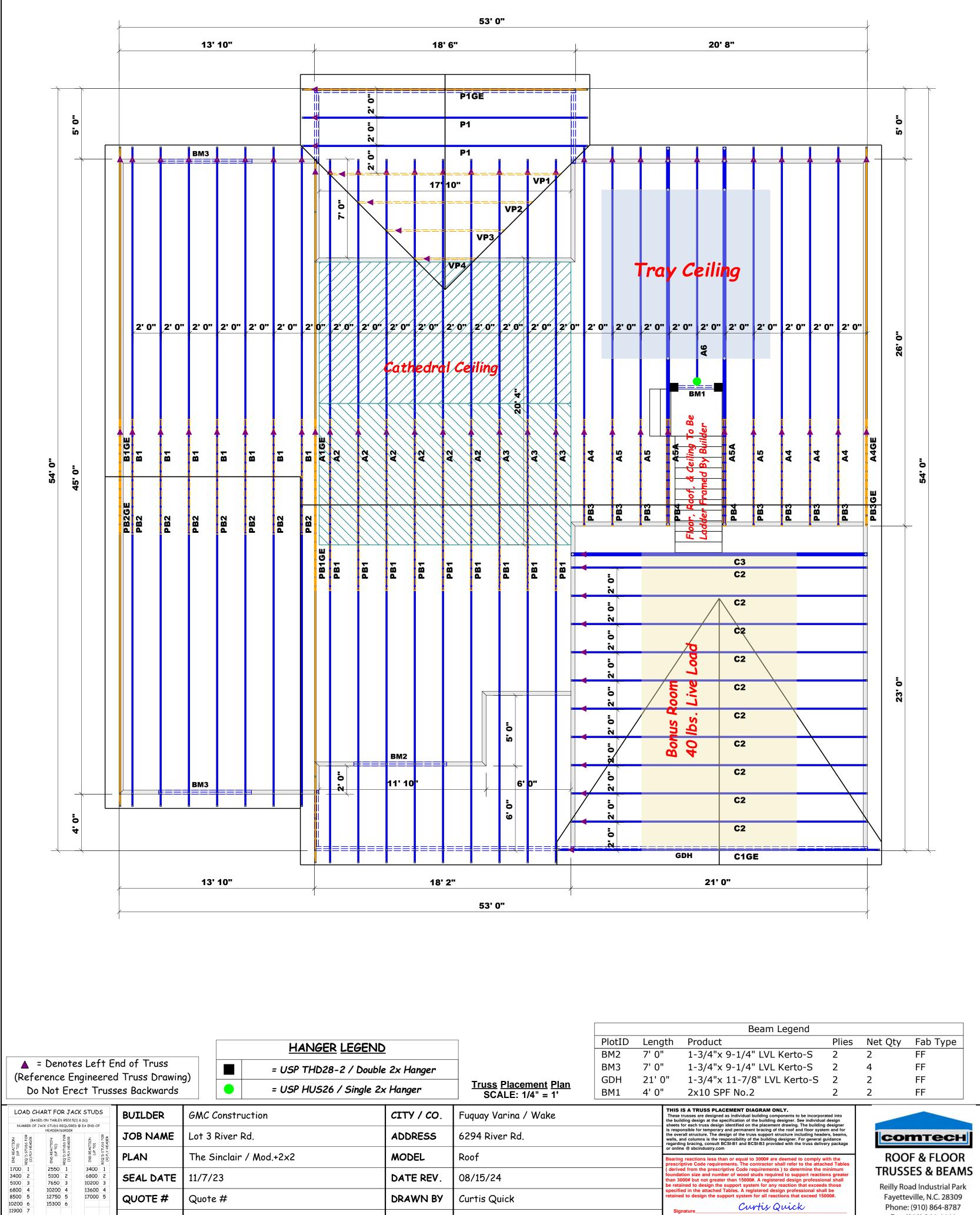


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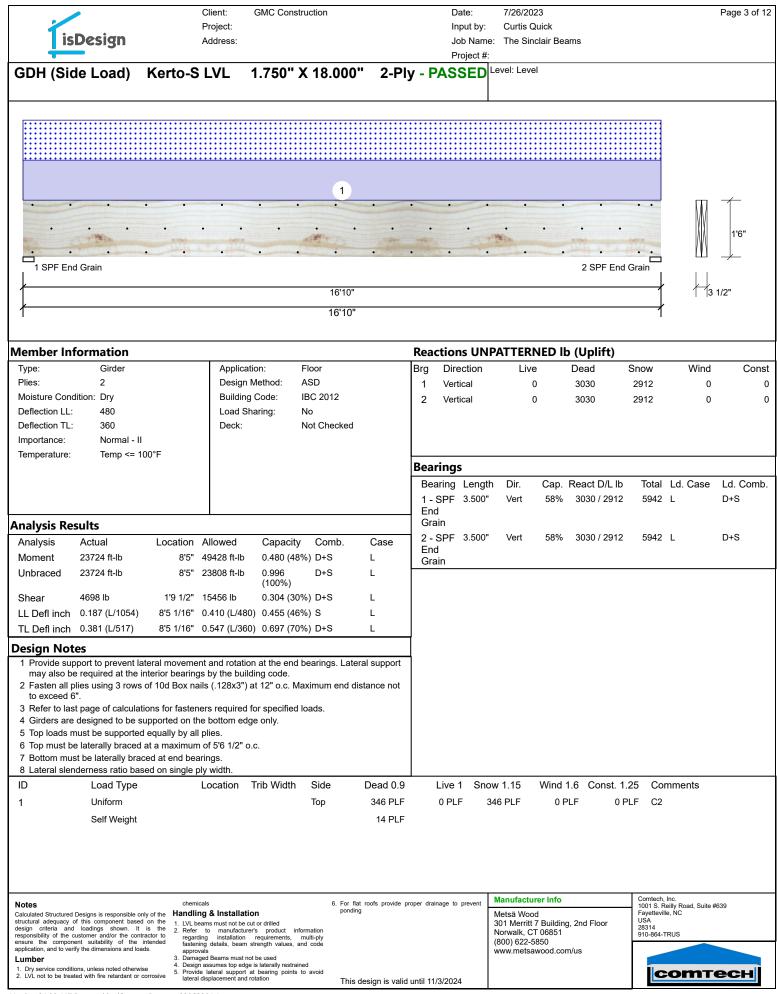
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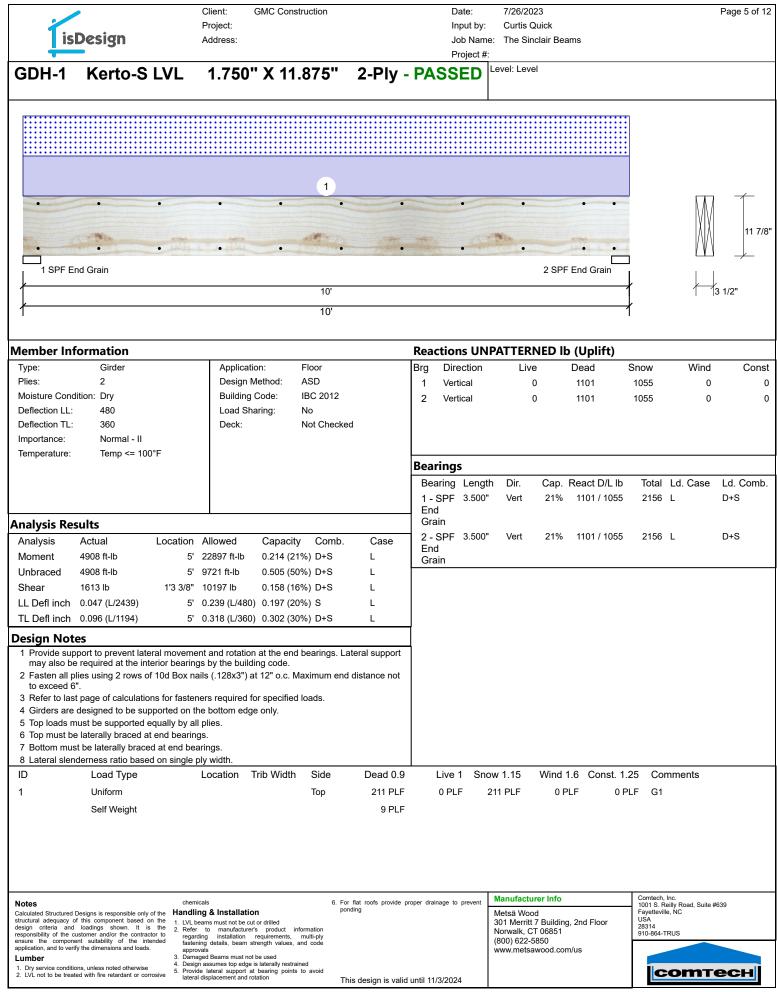
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| nalysis Re | | | | Ormersite Orm | uh Orac | Grain 2 - SPF | 3.500" | Vert | 21% | 2182 / 0 | 2182 | Uniform | D | |
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| | | | Client: | GMC Construction | l | Date: | 7/26/2023 | Page 2 of 12 |
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| | ictured Designs is responsible | | chemicals andling & Installa | | 6. For flat roofs prov | vide proper drainage to prever | Metsä Wood | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
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| Calculated Structured Designs is responsible only of the structural adequay of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor ensure the component suitability of the unitable. Application, and to verify the dimensions and loads. Handling & Installation ponding Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us Fayetteville, NC USA 28314 910-864-TRUS Lumber 1. Dry service conditions, unless note otherwise 2. Vin to be treaded with fire retardant or corrorsite 3. Un be the relativity fire treatant or corrorsite 3. Vin to be treaded with fire retardant or corrorsite 3. Vin to be treaded with fi | | | 6. For flat roofs provide proper drainage to prevent | | 1001 S. Reilly Road, Suite #639 |
| design criteria and loadings shown. It is the responsibility of the customer and/or the contractor of ensure the component suitability of the intended application, and to verify the dimensions and loads. 2. Rafe to manufacturer's product information requirements, multi-ply fastening details, beam structurements, multi-ply fastening details, beam structurements, multi-ply fastening details, beam structure to ensure the component suitability of the intended application, and to verify the dimensions and loads. Norwalk, CT 06851 Norwalk, CT 06851 2314 Lumber 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 90% Www.metsawood.com/us 10% 10% 2. VIN not be traded with fire related not corrorsis. Frovide laterall support at bearing points to avoid 90% 10% | Calculated Structured Designs is responsible on structural adequacy of this component based | on the 1 LVI beams must not be cut or drilled | ponaing | | Fayetteville, NC USA |
| ensure the component suitability of the interiods application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. Ivin to be treated with fire relaradance corresting. 2. Ivin to be treated with fire relaradance corresting. 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide laterall support at bearing points to avoid | design criteria and loadings shown. It responsibility of the customer and/or the contr | is the 2. Refer to manufacturer's product information ractor to regarding installation requirements, multi-ply | | Norwalk, CT 06851 | 28314 910-864-TRUS |
| Lumber 3. Damaged Beams must not be used 1. Dry service conditions, unless noted otherwise 2. Ivit not to be treated with fire retardant or correspond 5. Provide lateral support at bearing points to avoid 6. Provide lateral support at bearing points to avoid | ensure the component suitability of the i application, and to verify the dimensions and load | ds. approvals | | | |
| 2. IVI not to be treated with fire retardant or corrosive | | Damaged Beams must not be used Design assumes top edge is laterally restrained | | | |
| | 2. LVL not to be treated with fire retardant or o | | This design is valid until 11/3/2024 | | соттесн |



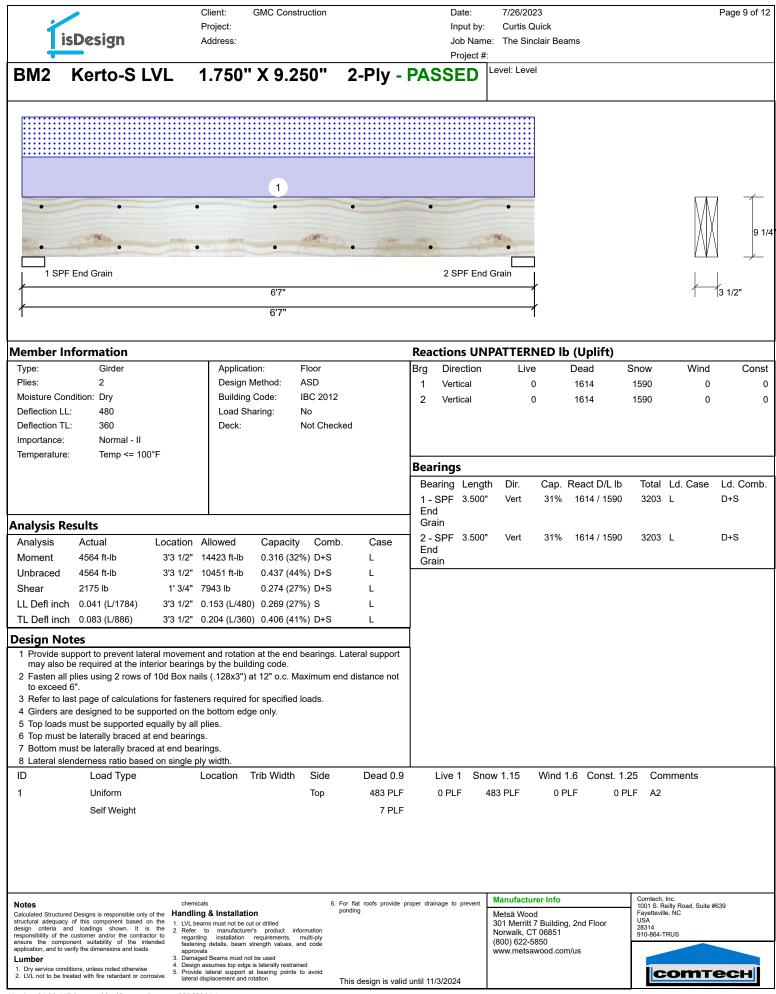
Version 21.80.417 Powered by iStruct[™] Dataset: 23062201.1

| | Client: GMC Construction | Date: | 7/26/2023 | Page 6 of 12 |
|--|--|--|---|--|
| | Project: | Input | | ŭ |
| isDesign | Address: | | lame: The Sinclair Beams | |
| | | Proje | ct #: | |
| GDH-1 Kerto-S LVL | 1.750" X 11.875 | 5" 2-Ply - PASSE | Level: Level | |
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| 1 SPF End Grain | | | 2 SPF End Grain | |
| | 10 |)' | | 3 1/2" |
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| Multi-Ply Analysis | | | | |
| Fasten all plies using 2 rows of 10d | Box nails (.128x3") at 12" | o.c., Maximum end distance | e not to exceed 6". | |
| Capacity 0.0 % | | | | |
| Load 0.0 PLF | | | | |
| Yield Limit per Foot 163.7 PL | LF | | | |
| Yield Limit per Fastener81.9 lb.Yield ModeIV | | | | |
| Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination Duration Factor 1.00 | | | | |
| Duration Factor 1.00 | | | | |
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| | emicals | 6. For flat roofs provide proper drainage to prev ponding | | Comtech, Inc. 1001 S. Reilly Road, Suite #639 |
| structural adequacy of this component based on the 1. LVL | lling & Installation beams must not be cut or drilled | ponding | Metsä Wood 301 Merritt 7 Building, 2nd Floor | Fayetteville, NC USA |
| design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to rega | fer to manufacturer's product information arding installation requirements, multi-ply | | Norwalk, CT 06851 (800) 622-5850 | 28314 910-864-TRUS |
| application, and to verify the dimensions and loads. app | tening details, beam strength values, and code provals maged Beams must not be used | | (800) 622-5650 www.metsawood.com/us | |
| Dry service conditions, unless noted otherwise 4. Des 5. Prov | sign assumes top edge is laterally restrained wide lateral support at bearing points to avoid | | | соттесн |
| 2. LVL not to be treated with fire retardant or corrosive late | and displacement and rotation | This design is valid until 11/3/2024 | | |

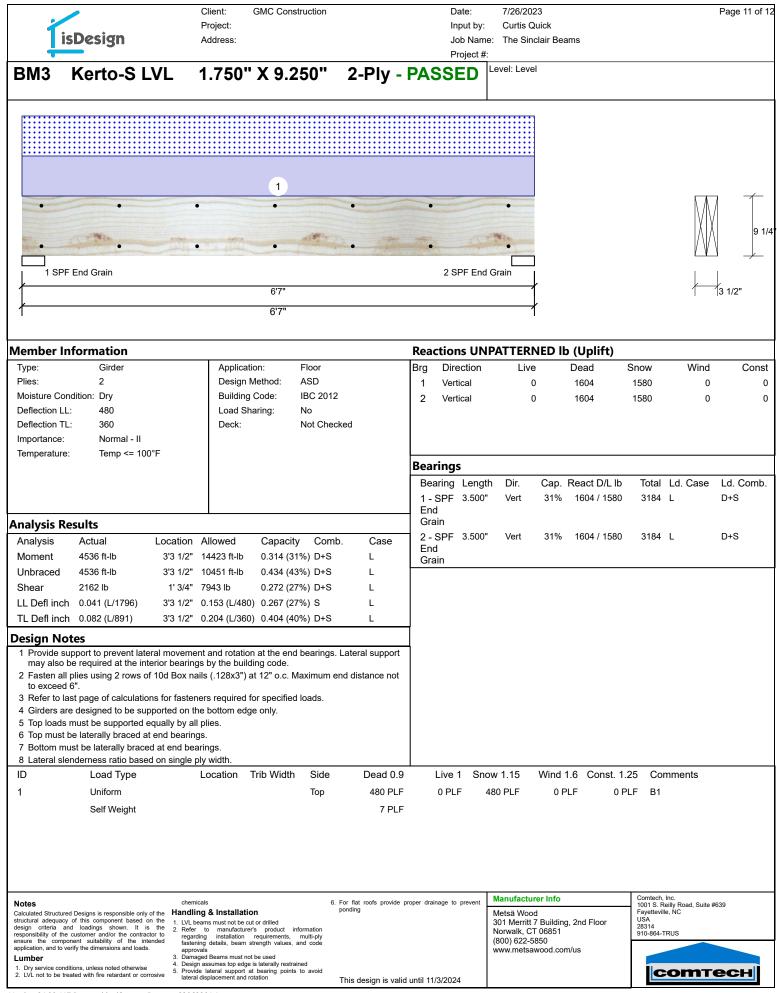
| is | Design | Pr | ent: oject: ldress: | GMC Constru | iction | | | Job | it by: Name: | 7/26/202 Curtis Q The Sin | uick | ims | | | Page 7 o |
|--|---|--|--|---|---------------|--------------------|-------------------|--------------------|-----------------|---------------------------------|-------------|-------------------------|--------------------------------|--------------------|----------------|
| BM1 | S-P-F #2 | 2.00 | 0'' X 1 | 0.000 | " 2- | Ply - P | ASS | | ect #: Le | evel: Leve | l | | | | |
| 1 Hanger | (JUS28-2) | 1 | 2 Hange | • [• [JUS28-2) | | | | | | | | | | | g - |
| Annah ar Ind | | | | | | | Deed | | | ATTED! | | (11-01:64) | | | |
| /lember Inf Type: | Girder | I | Applicatio | on. ⊏ | loor | | Brg | Direc | | AI IERI Live | | (Uplift) Dead | Snow | Wind | Co |
| Plies: Moisture Conc Deflection LL: Deflection TL: Importance: | 2 lition: Dry 480 | | Design M Building (Load Sha Deck: | lethod: A Code: If aring: N | SD 3C 2012 | 4 | 1 2 | Vertica Vertica | al | (|) | 171 183 | 171 183 | 0 | Col |
| Temperature: | Temp <= 100 |)°F | | | | | | | | | | | | | |
| | | | | | | | | rings | | | | | | | |
| | | | | | | | Bea 1 - Har | | ength 000" | Dir. Vert | Cap. 13% | React D/L 171 / 1 | | Ld. Case | Ld. Com D+S |
| Analysis Re | sults | | | | | | 2 - | 2 | .000" | Vert | 14% | 183 / 1 | 83 366 | L | D+S |
| Analysis | Actual | Location Al | owed | Capacity | Comb. | Case | Har | nger | | | | | | | |
| Moment | 626 ft-lb | | 46 ft-lb | 0.159 (16% | - | L | | | | | | | | | |
| Unbraced | 626 ft-lb | 1'11 1/4" 37 | | 0.165 (17% | - | L | | | | | | | | | |
| Shear | 366 lb | 2'9 3/4" 28 | | 0.128 (13% | | L | | | | | | | | | |
| LL Defl inch | 0.002 (L/20829) | 1'10 3/4" 0.0 |)89 (L/480) | 0.023 (2%) | S | L | | | | | | | | | |
| TL Defl inch | 0.004 (L/10415) | 1'10 3/4" 0. | 118 (L/360) | 0.035 (3%) | D+S | L | | | | | | | | | |
| Design Not | | | | | | | ┥ | | | | | | | | |
| Provide sup may also be Fasten all p to exceed 6 Refer to las Fill all hang Girders are Top loads n Top must be Bottom must | port to prevent late e required at the int lies using 2 rows o ". t page of calculatio er nailing holes. designed to be sup nust be supported e e laterally braced a st be laterally brace | erior bearings b f 10d Box nails ns for fasteners oported on the b equally by all pli t end bearings. Id at end bearin | y the buildi (.128x3") a required fo ottom edge es. gs. | ng code. t 12" o.c. Ma: or specified lo | kimum end | | | | | | | | | | |
| 9 Lateral slen | Iderness ratio base | | | rib Width | Side | Dead 0.9 | | Live 1 | Snow | 1 15 | Wind 1 | I.6 Const | 1 25 0 | omments | |
| 1D 1 | Load Type Point | LC | cation I 1-11-4 | | Side Top | Dead 0.9 354 lb | I | Live 1 0 lb | | 354 lb | | ilo Const ilb | 0 lb A6 | | |
| | | | | | | | | | N | lanufactu | rer Info | | Comtech 1001 S. Fayettev | Reilly Road, Suite | #639 |
| | | | | | | | | | | | | | UŚA 28314 910-864 | | |

CSD BUILD

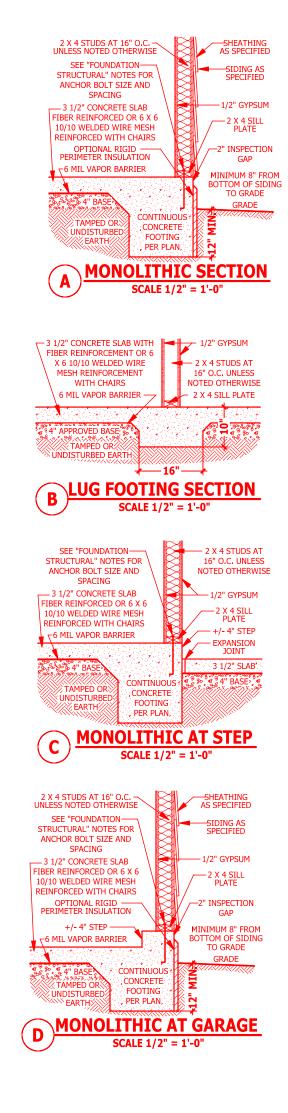
| | Client: GMC Construction | | 7/26/2023 | Page 8 of 12 |
|--|--------------------------------------|--------------------------------------|-----------------------|--|
| | Project: | Input by: | | |
| isDesign | Address: | | e: The Sinclair Beams | |
| | | Project # | | |
| BM1 S-P-F # | 2 2.000" X 10.000" | 2-Ply - PASSED | Level: Level | |
| | 2 2:000 X 10:000 | 2-I IY - I AOOLD | | |
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| 1 Hanger (JUS28-2) | 2 Hanger (JUS28-2) | | | |
| L / | 3'9" | | | |
| | | | | 1 10 |
| 1 | 3'9" | | | |
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| Multi-Dhy Analysia | | | | |
| Multi-Ply Analysis | | | | |
| | ows of 10d Box nails (.128x3") at 12 | ' o.c Maximum end distance n | ot to exceed 6". | |
| Capacity | 0.0 % | | | |
| Load | 0.0 PLF | | | |
| Yield Limit per Foot Yield Limit per Fastener | 157.4 PLF 78.7 lb. | | | |
| Yield Mode | IV | | | |
| Edge Distance | 1 1/2" | | | |
| Min. End Distance | 3" | | | |
| Load Combination | | | | |
| Duration Factor | 1.00 | | | |
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| | | | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
| | | | | Fayetteville, NC USA |
| | | | | 28314 910-864-TRUS |
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| | | This design in the strength of the | | сотесн |
| | | This design is valid until 11/3/2024 | | |



| | Client: GMC Construction | Date: | 7/26/2023 | Page 10 of 1 |
|---|--|--|--|--|
| | Project: | Input by: | | 5 |
| isDesign | Address: | | e: The Sinclair Beams | |
| | | Project # | | |
| | | | Level: Level | |
| BM2 Kerto-S LVL | 1.750" X 9.250" | 2-Ply - PASSED | | |
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| 1 SPF End Grain | | 2 SPF End | i Grain | |
| | 6'7" | | | 3 1/2" |
| / | 6'7" | | ł | |
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| Multi-Ply Analysis | | | | |
| Fasten all plies using 2 rows of 10c | d Roy pails (120 | o c Maximum and distances | ot to averad E" | |
| | a box halls (.120x3) at 12 | o.c Maximum end distance n | IOT TO EXCEED 6. | |
| Capacity 0.0 % Load 0.0 PLF | | | | |
| Yield Limit per Foot 163.7 P | | | | |
| Yield Limit per Fastener 81.9 lb. | | | | |
| Yield Mode IV | | | | |
| Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination | | | | |
| Duration Factor 1.00 | | | | |
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| | | | Manufacturer Info | Comtech. Inc. |
| | emicals dling & Installation | 6. For flat roofs provide proper drainage to prevent ponding | Manufacturer info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
| structural adequacy of this component based on the 1. LVI | L beams must not be cut or drilled | | 301 Merritt 7 Building, 2nd Floor | USA 28314 |
| responsibility of the customer and/or the contractor to reg | fer to manufacturer's product information garding installation requirements, multi-ply | | Norwalk, CT 06851 (800) 622-5850 | 910-864-TRUS |
| application, and to verify the dimensions and loads. app | stening details, beam strength values, and code provals | | (800) 622-5850 www.metsawood.com/us | |
| 4. De | amaged Beams must not be used sign assumes top edge is laterally restrained | | | |
| | ovide lateral support at bearing points to avoid eral displacement and rotation | This design is valid until 11/3/2024 | | соттесн |
| L | | | | |



| | Client: GMC Construction | Date: | 7/26/2023 | Page 12 of 1 |
|--|---|--|--|--|
| | Project: | Input by: | | - |
| isDesign | Address: | Job Nam | e: The Sinclair Beams | |
| · · · · | | Project # | | |
| BM3 Kerto-S LVL | 1 750" X Q 250" | 2-Ply - PASSED | Level: Level | |
| DIVIS KEILO-S LVL | 1.750 × 9.250 | 2-FIY - FASSED | | |
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| 1 SPF End Grain | | 2 SPF End | Grain | |
| 1 | 6'7" | | | 3 1/2" |
| / | 6'7" | | | |
| | 57 | | I | |
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| Multi-Ply Analysis | | | | |
| Fasten all plies using 2 rows of 10c | Box nails (.128x3") at 12" | o.c., Maximum end distance n | ot to exceed 6". | |
| Capacity 0.0 % | | | | |
| Load 0.0 PLF | | | | |
| Yield Limit per Foot 163.7 P | LF | | | |
| Yield Limit per Fastener 81.9 lb. | | | | |
| Yield ModeIVEdge Distance1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination | | | | |
| Duration Factor 1.00 | | | | |
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| Notes che | emicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #620 |
| Calculated Structured Designs is responsible only of the Hance | lling & Installation | ponding | Metsä Wood | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
| design criteria and loadings shown. It is the 2. Re | L beams must not be cut or drilled fer to manufacturer's product information | | 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | USA 28314 910-864-TRUS |
| responsibility of the customer and/or the contractor to ensure the component suitability of the intended fas | parding installation requirements, multi-ply tening details, beam strength values, and code | | (800) 622-5850 | |
| Lumber 3. Da | provals maged Beams must not be used sign assumes top edge is laterally restrained | | www.metsawood.com/us | |
| 1. Dry service conditions, unless noted otherwise 5. Pro | sign assumes top edge is laterally restrained byide lateral support at bearing points to avoid eral displacement and rotation | | | соттесн |
| late | ana arapiauement and totation | This design is valid until 11/3/2024 | | |



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" wid 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.

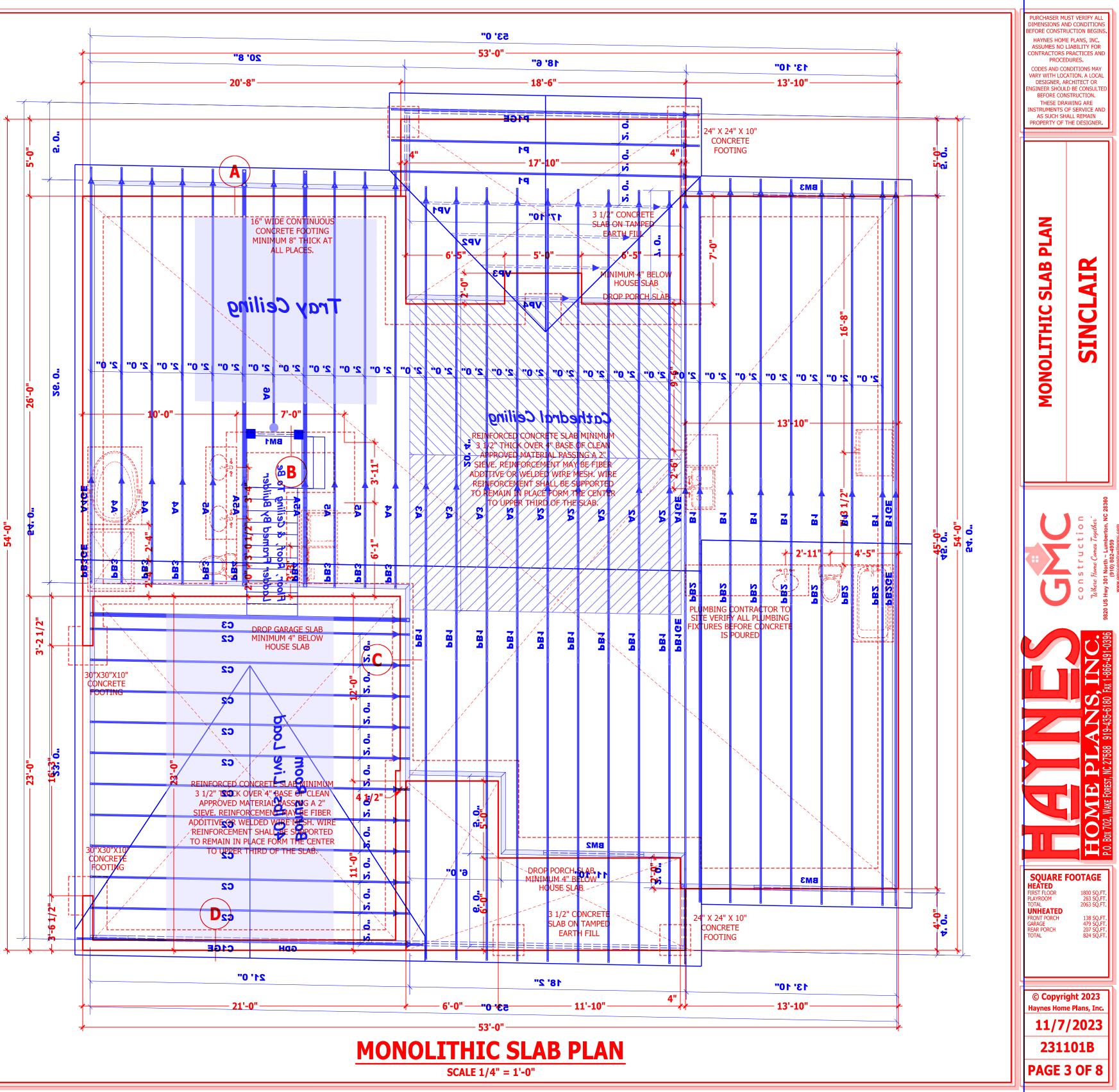
POINT LOADS: designates significant point load and should have solid blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, an 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. T 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.



Sinclair C:\Users\micha\Desktop\231101B