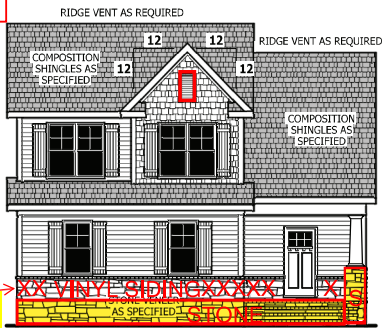




REVISION



VINYL SIDING

FRONT ELEVATION WITH SIDE LOAD GARAGE

SCALE 1/8" = 1'-0"

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

CLIMATE ZONE	MEAN ROOF HEIGHT 25'-8"			HEIGHT TO RIDGE 30'-0"		
	ZONE 3A	ZONE 4A	ZONE 5A	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35	0.35	0.35	0.35
SOLARITZ FACTOR	0.45	0.55	0.45	0.45	0.55	0.45
GLAZED FENESTRATION SHGC	0.30	0.30	0.30	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	15	15	15	15
FLOOR R-VALUE	19	19	30	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15	10/15	10/15	10/15
** SLAB R-VALUE	0	10	10	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/15	5/13	10/15	10/15

**R303 MEANS R30 SEPARATING INSULATION OR R30 CAVITY INSULATION
 ** INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEEL WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL

DESIGNED FOR WIND SPEED OF 130 MPH. 3 SECOND GUST 50 YEAR RETURN PERIOD 15'

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	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8	16.2	14.2	-15.0	14.9
ZONE 2	14.2	-18.0	14.9	-18.8	15.5	-19.6	15.9	-20.4	16.2	14.2	-18.0	14.9
ZONE 3	14.2	-18.0	14.9	-18.8	15.5	-19.6	15.9	-20.4	16.2	14.2	-18.0	14.9
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9	17.9	15.5	-16.0	16.3
ZONE 5	15.5	-20.0	16.3	-21.1	16.9	-21.8	17.4	-22.4	17.9	15.5	-20.0	16.3

DESIGNED FOR WIND SPEED OF 120 MPH. 3 SECOND GUST 50 YEAR RETURN PERIOD 15'

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	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
ZONE 1	16.7	-18.0	17.6	-18.9	18.2	-19.6	18.7	-20.2	19.2	16.7	-18.0	17.6
ZONE 2	16.7	-24.0	17.6	-22.4	18.2	-22.6	18.7	-23.5	19.2	16.7	-24.0	17.6
ZONE 3	16.7	-24.0	17.6	-22.4	18.2	-22.6	18.7	-23.5	19.2	16.7	-24.0	17.6
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3	21.3	18.2	-19.0	19.1
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9	21.3	18.2	-24.0	19.1

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 striped or otherwise sealed with an air barrier material or seal 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.

ROOF VENTILATION

SECTION R806
R806.1 Ventilation required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.
R806.2 Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.
Exceptions:
 1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m²) of ventilation may be vented with continuous soffit ventilation only.
 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.
SQUARE FOOTAGE OF ROOF TO BE VENTED = 1558 SQ.FT.
NET FREE CROSS VENTILATION NEEDED:
 WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 10.39 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 = 5.16 SQ.FT.

GUARD RAIL NOTES

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 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.



FRONT ELEVATION

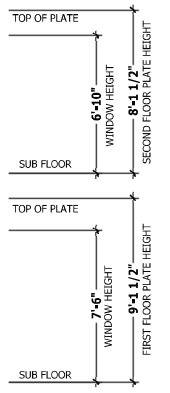
SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE 1/4" = 1'-0"

**LOT 4R MITCHELL MANOR
 TBD MITCHELL MANOR DR
 ANGIER, NC 27501
 3 CAR GARAGE**



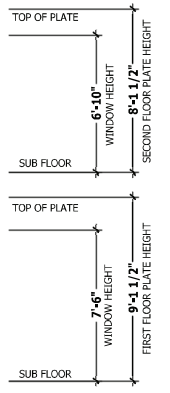
SQUARE FOOTAGE

HEATED

FIRST FLOOR	776 SQ.FT.
SECOND FLOOR	764 SQ.FT.
PLAYROOM	280 SQ.FT.
TOTAL	1820 SQ.FT.

UNHEATED

FRONT PORCH	101 SQ.FT.
GARAGE	466 SQ.FT.
REAR PORCH	152 SQ.FT.
TOTAL	719 SQ.FT.



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FRONT & REAR ELEVATIONS

WEAVER HOMES

THE GASTON II

WEAVER HOMES

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SQUARE FOOTAGE

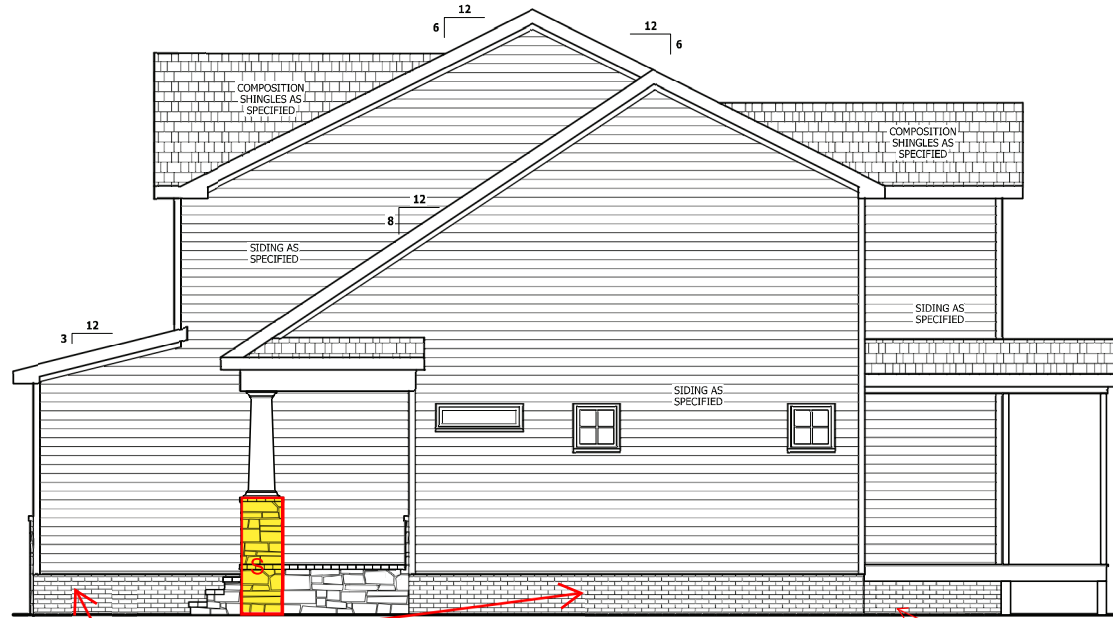
HEATED

FIRST FLOOR	776 SQ.FT.
SECOND FLOOR	764 SQ.FT.
PLAYROOM	280 SQ.FT.
TOTAL	1820 SQ.FT.

UNHEATED

FRONT PORCH	101 SQ.FT.
GARAGE	466 SQ.FT.
REAR PORCH	152 SQ.FT.
TOTAL	719 SQ.FT.

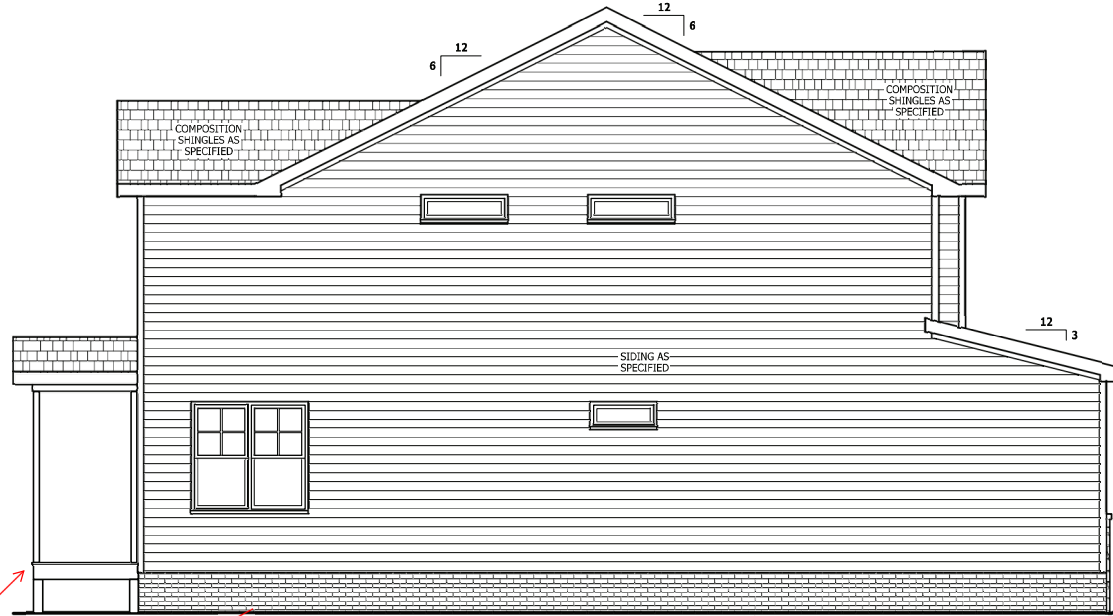
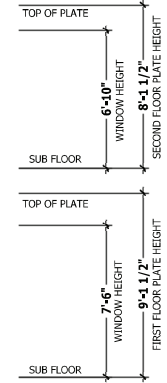
Z:\Build\Weaver Development Company, Inc\2001288 Gaston II\2001288 Gaston II Left.aec



RIGHT SIDE ELEVATION
SCALE 1/4" = 1'-0"

PARGE

COVERED PORCH

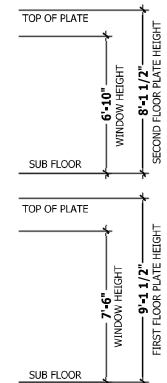


LEFT SIDE ELEVATION
SCALE 1/4" = 1'-0"

COVERD PORCH

PARGE

PARGE



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LEFT & RIGHT ELEVATIONS
THE GASTON II

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300 Woodson Drive, Matthews, NC 28105

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P.O. Box 7024, Wake Forest, NC 27388 919-356-6100 Fax: 919-356-6103

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	778 SQ.FT.
SECOND FLOOR	794 SQ.FT.
PLAN ROOM	288 SQ.FT.
TOTAL	1860 SQ.FT.
UNHEATED	
FRONT PORCH	101 SQ.FT.
ENCL.	108 SQ.FT.
REAR PORCH	103 SQ.FT.
TOTAL	312 SQ.FT.

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PAGE 2 OF 8

3RD CAR GARAGE

RAISE HEADER TO TOP PLATE

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 thickness.
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 R302.6, 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.
CEILING. 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 R703.5. 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 this 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 R612.4.
 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.

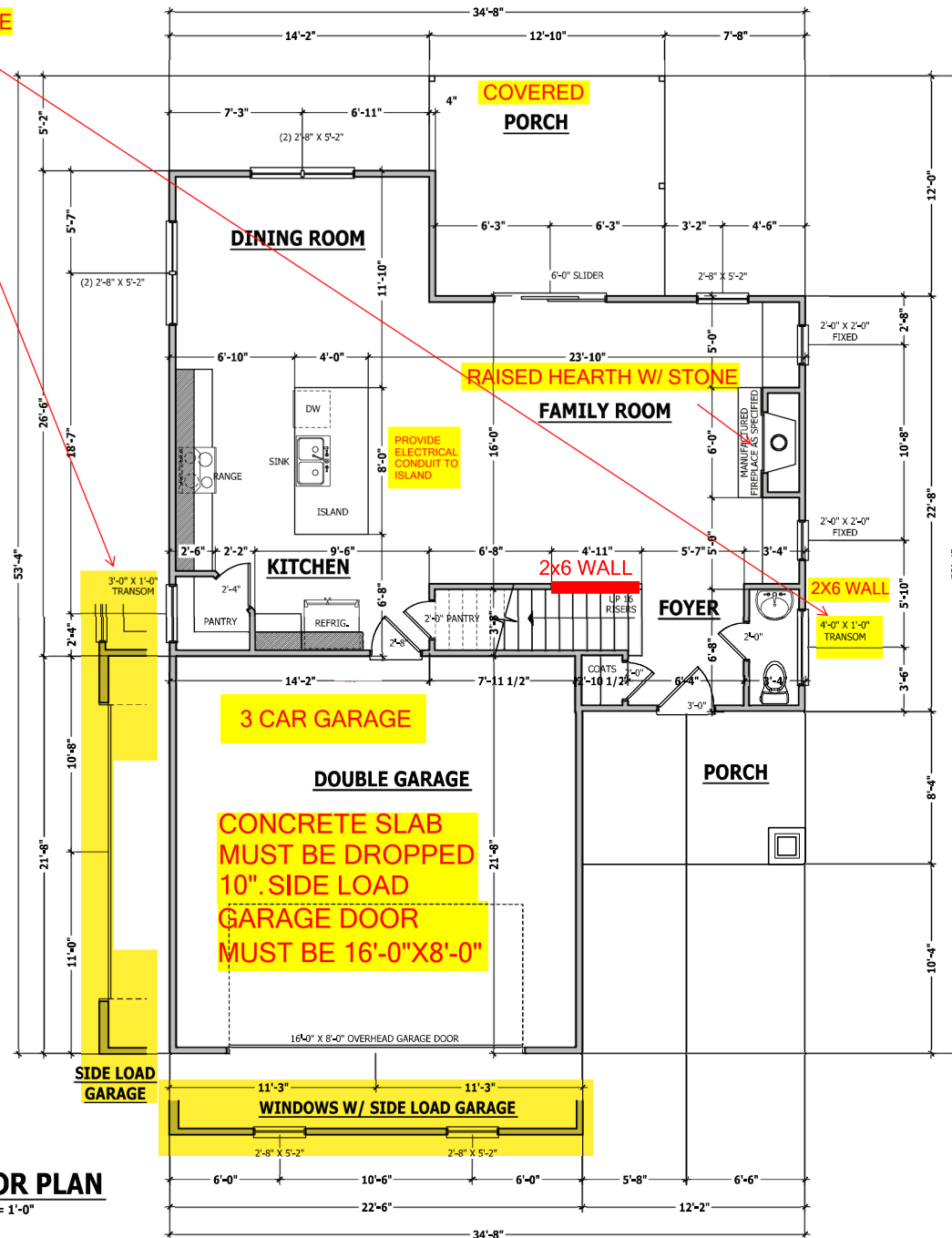
R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	776 SQ.FT.
SECOND FLOOR	764 SQ.FT.
PLAYROOM	280 SQ.FT.
TOTAL	1820 SQ.FT.
UNHEATED	
FRONT PORCH	101 SQ.FT.
GARAGE	466 SQ.FT.
REAR PORCH	152 SQ.FT.
TOTAL	719 SQ.FT.

FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"



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FIRST FLOOR PLAN
THE GASTON II

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HAYNES HOME PLANS, INC.
P.O. Box 102, Wake Forest, NC 27338 • 919-456-6100 • Fax: 919-456-9100

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	776 SQ.FT.
SECOND FLOOR	764 SQ.FT.
PLAYROOM	280 SQ.FT.
TOTAL	1820 SQ.FT.
UNHEATED	
FRONT PORCH	101 SQ.FT.
GARAGE	466 SQ.FT.
REAR PORCH	152 SQ.FT.
TOTAL	719 SQ.FT.

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PAGE 4 OF 8

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 contractor 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 (PSF)	DEAD LOAD (PSF)	DEFLECTION (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 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 otherwise.

ENGINEERED WOOD BEAMS:
 Laminated veneer Lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.8x10⁶ PSI
 Parallel Strand Lumber (PSL) = Fb=2900 PSI, Fv=280 PSI, E=2.0x10⁶ PSI
 Laminated strand Lumber (LSL) = Fb=2250 PSI, Fv=400 PSI, E=1.65x10⁶ PSI
 Insure all connections per manufacturer's instructions.

TRUSS AND JOIST MEMBERS: All roof truss and joist layouts shall be prepared in accordance with this document. Trusses and joists shall be installed according to the manufacturer's specifications. Any change in truss or joist layout shall be coordinated with Haynes Home Plans, Inc.

INTELS: Brick Intels 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 24" on center for spans up to 10'-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 R602.10.2 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 its actual length. Method PF contributes 1.5 times its actual length.

HP: 800 lbs hold down hold down device fastened to the edge of the brace wall panel sets 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 frame 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 Plans, Inc. attention before construction begins.

KNEE WALL AND CEILING HEIGHTS: All finished knee wall heights and ceiling heights are shown turned down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated head 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 responsibility 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.

EXTERIOR HEADERS

- (2) 2 X 6 WITH 1 JACK STUD EACH END
 UNLESS NOTED OTHERWISE

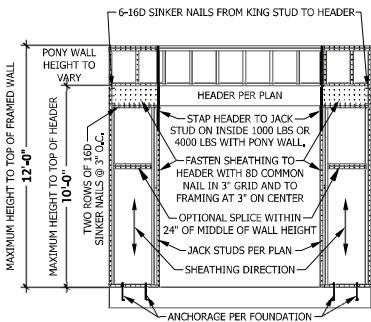
= KING STUDS EACH END PER TABLE BELOW

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

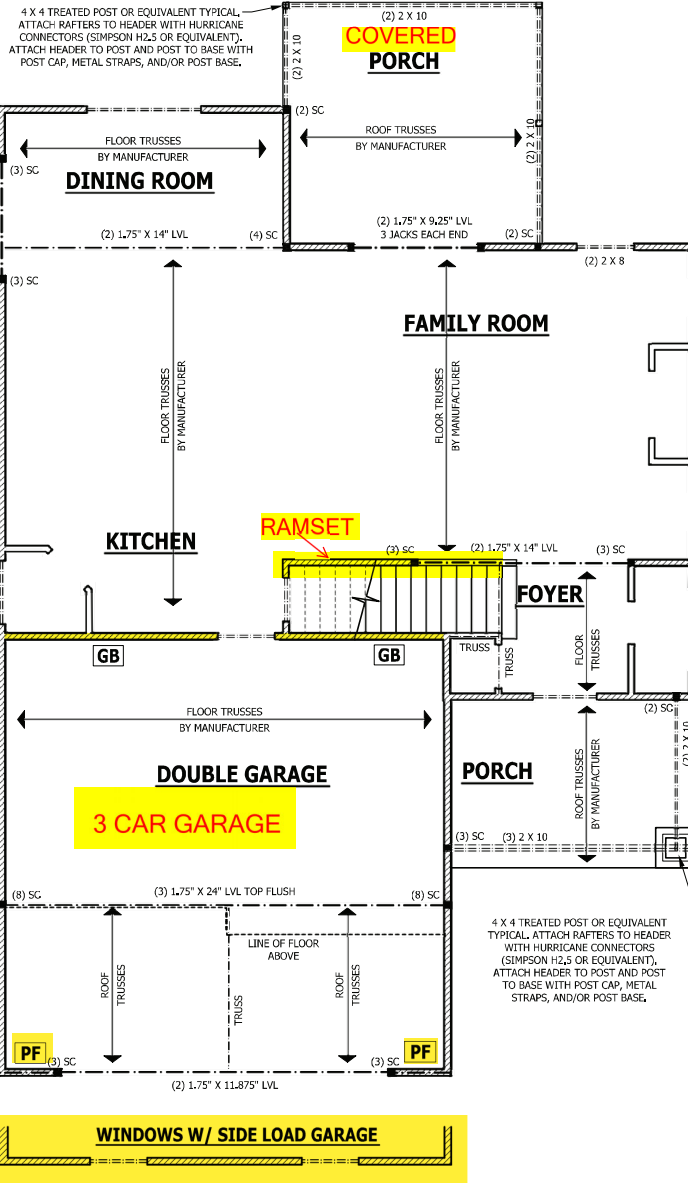
- NON LOAD BEARING HEADERS TO BE LADDER FRAMED



PF PORTAL FRAME AT OPENING

(METHOD PF PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

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FIRST FLOOR STRUCTURAL
 THE GASTON II

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 970 Wessell Drive, Matthews, NC 28105

HAYNES HOME PLANS, INC.
 P.O. Box 102, Wake Forest, NC 27388 • 919-456-6100 • Fax: 919-456-0308

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	778 SQ.FT.
SECOND FLOOR	704 SQ.FT.
PLAN ROOM	88 SQ.FT.
TOTAL	1570 SQ.FT.
UNHEATED	
FRONT PORCH	101 SQ.FT.
REAR PORCH	101 SQ.FT.
TOTAL	202 SQ.FT.

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 PAGE 5 OF 8

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DESIGN LOADS	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (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	-	-
Glazed floor 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
Show	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 otherwise.

ENGINEERED WOOD BEAMS:
 Laminated veneer lumber (LVL) - F=2800 PSI, E=1,900,000 PSI
 Parallel Strand Lumber (PSL) - F=2800 PSI, E=1,900,000 PSI
 Laminated strand lumber (LSL) - F=2200 PSI, E=1,250,000 PSI

TRUSS AND 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 manufacturer's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Home 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 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 shall 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.

EXTERIOR HEADERS

-(2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE

HEADER SPAN	< 3'	3'-4'	4'-6'	6'-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 Plans, Inc. attention before construction begins.

KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furled down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designed 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 responsibility 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.

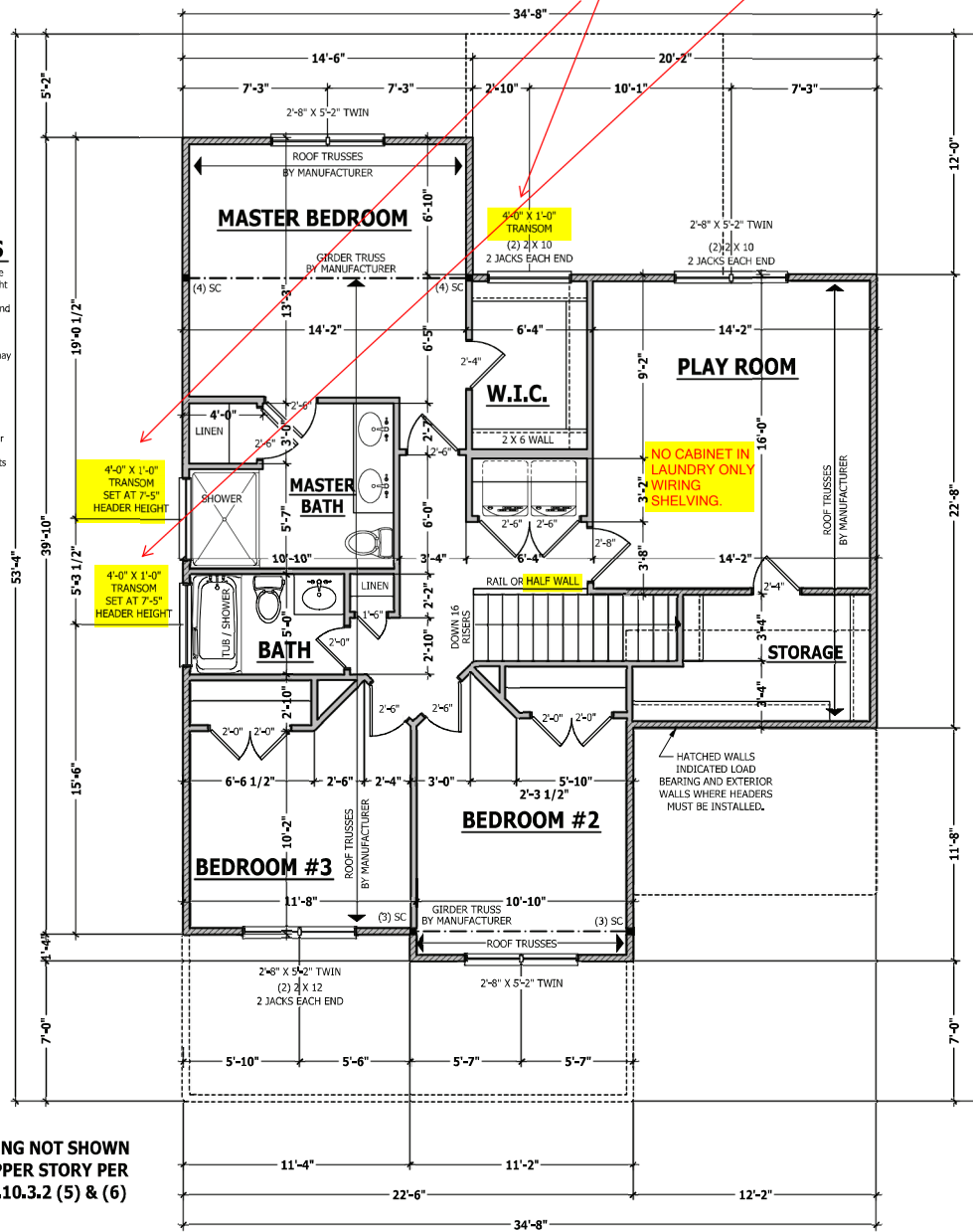
Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 as 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 as drawn as 5 1/2", and do not include gypsum.

RAISE HEADER TO TOP PLATE



BRACING NOT SHOWN ON UPPER STORY PER R602.10.3.2 (5) & (6)

SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR PRACTICES AND PROCEDURES. LOCAL CODES AND REGULATIONS MAY VARY WITH LOCALITY. A LOCAL DESIGN ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

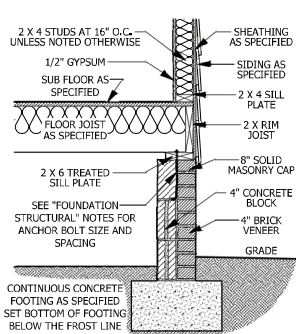
SECOND FLOOR PLAN
 THE GASTON II

WEAVER HOMES
 HOME PLANS, INC.
 910-630-2100 • 919-606-4996
 970 Westgate Drive, Fayetteville, NC 27308

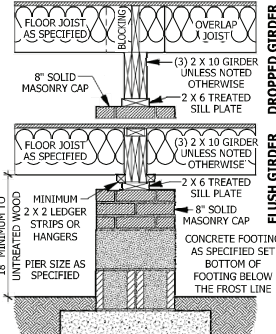
HAYNES HOME PLANS, INC.
 P.O. Box 102, Wake Forest, NC 27388 919-456-6100 Fax 919-456-6105

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	778 SQ. FT.
SECOND FLOOR	748 SQ. FT.
PLAN ROOM	288 SQ. FT.
TOTAL	1810 SQ. FT.
UNHEATED	
PLAN ROOM	101 SQ. FT.
PAINT	102 SQ. FT.
TOTAL	719 SQ. FT.

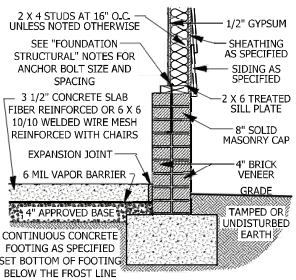
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 5/19/2020
 181035B
 PAGE 6 OF 8



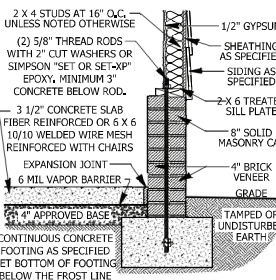
A CRAWL SPACE WALL
SCALE 3/4" = 1'-0"



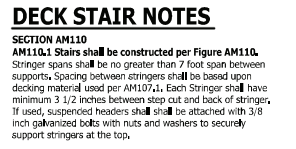
B DROPPED/ FLUSH PIER
SCALE 3/4" = 1'-0"



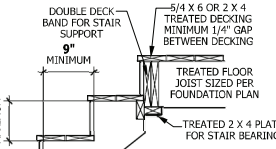
C GARAGE STEM WALL
SCALE 3/4" = 1'-0"



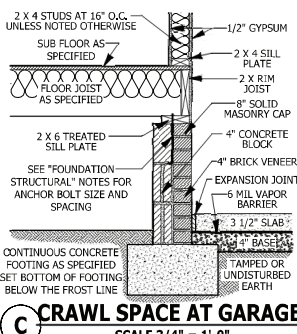
D <48\"/> GARAGE WING WALL
SCALE 3/4" = 1'-0"



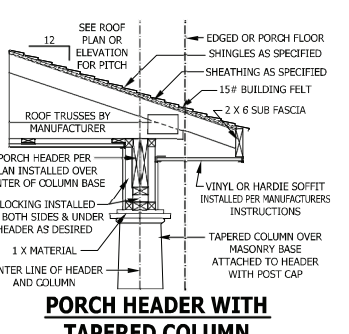
E DECK STAIR NOTES



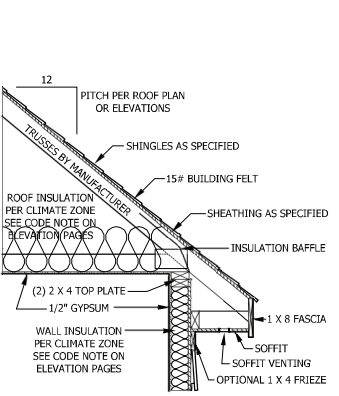
F FILLED PORCH SECTION WITH VENT
SCALE 1/2" = 1'-0"



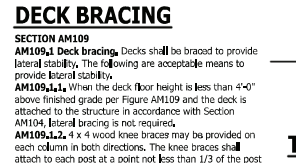
G DECK ATTACHMENT
SCALE 1/2" = 1'-0"



H PORCH HEADER WITH TAPERED COLUMN
SCALE 3/4" = 1'-0"



I TYPICAL WALL DETAIL
SCALE 3/4" = 1'-0"



J DECK BRACING



K TYPICAL DECK STAIR DETAIL
SCALE 3/4" = 1'-0"



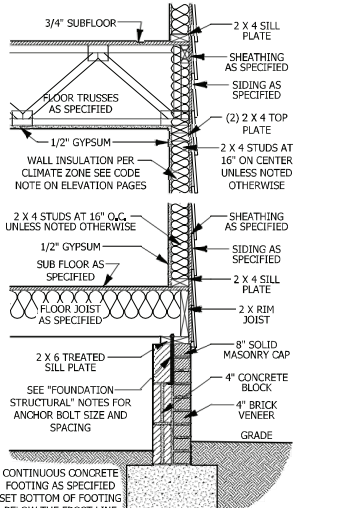
L WEEP SCREED
SCALE 3/4" = 1'-0"

CARBON MONOXIDE ALARMS

SECTION R315
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 occur, 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.

STAIRWAY NOTES

R311.7
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 of the stairway.
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, 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 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 treads' leading edges. 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 line adjoining the tread nosing, or finish surface of ramp slope, shall not be less than 34 inches (864 mm) and not more than 38 inches (965 mm).
Exceptions:
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.
2. When handrail fittings or bindings are used to provide continuous transition between flights, the transition from handrail to handrail, or at the start of a flight, the handrail height at the fittings or bindings shall be permitted to exceed the maximum height.
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 1 1/2 inch (38 mm) between the wall and the handrail.
Exceptions:
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 guard/handrail, the wall-mounted rail must return into the wall.



M TYPICAL STAIR DETAIL
SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.
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LOADS AND CONDITIONS MAY VARY WITH LOCALITY. A LOCAL DESIGN ARCHITECT OR ENGINEER SHOULD BE CONSULTED FOR ANY SUCH REQUIREMENTS.
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

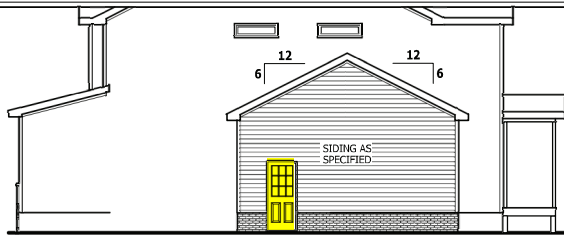
TYPICAL DETAILS
THE GASTON II

WEAVER HOMES
910-630-2100 • 919-606-4996
950 W. DAVENPORT, PUEBLO, CO 81009

HAYNES HOME PLANS, INC.
P.O. BOX 202, WACE, MISSOURI 64788 • 816-866-0100

SQUARE FOOTAGE HEATED	
FIRST FLOOR	776 SQ. FT.
SECOND FLOOR	786 SQ. FT.
PLANETOTAL	1562 SQ. FT.
TOTAL	
UNHEATED	1820 SQ. FT.
FINISH PORCH	103 SQ. FT.
SCREENED PORCH	103 SQ. FT.
REAR PORCH	103 SQ. FT.
TOTAL	719 SQ. FT.

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PAGE 8 OF 8



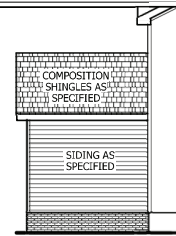
SIDE ELEVATION

SCALE 1/8" = 1'-0"



FRONT ELEVATION

SCALE 1/8" = 1'-0"



REAR ELEVATION

SCALE 1/8" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.
 HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR PRACTICES AND PROCEDURES.
 COSTS AND CONDITIONS MAY VARY WITH LOCALITY. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.
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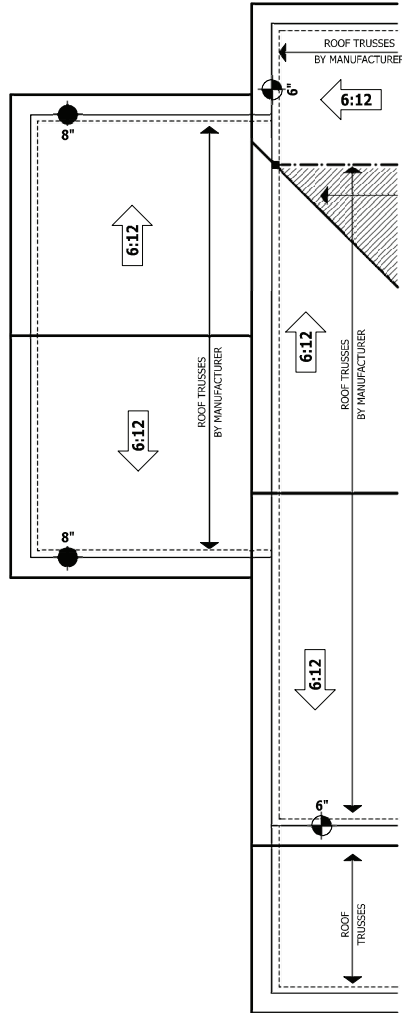
SIDE LOAD THIRD CAR
THE GASTON II

WEAVER HOMES
 910-630-2100 • 919-606-4996
 950 Wagonwheel Drive, Matthews, NC 28105

HAYNES HOME PLANS, INC.
 P.O. Box 102, Wake Forest, NC 27388 919-356-6100 Fax 919-356-9108

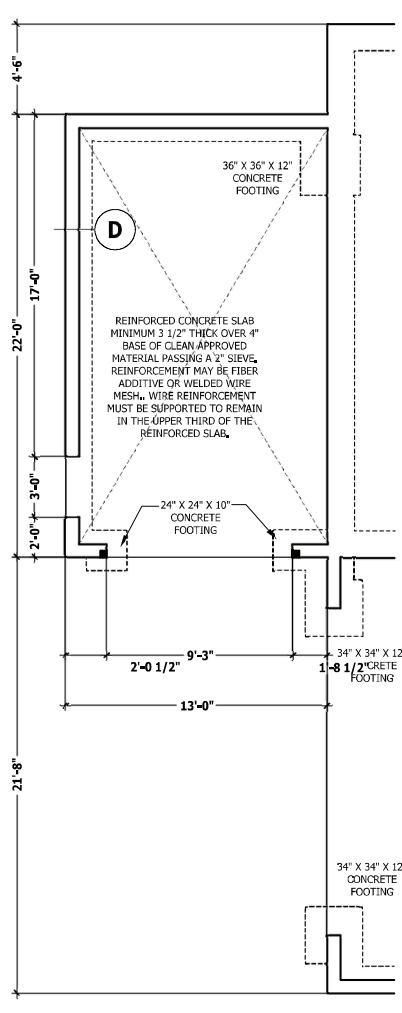
SQUARE FOOTAGE	
HEATED FIRST FLOOR	779 SQ.FT.
HEATED SECOND FLOOR	794 SQ.FT.
UNHEATED FRONT PORCH	288 SQ.FT.
UNHEATED REAR PORCH	180 SQ.FT.
TOTAL	1820 SQ.FT.
UNHEATED FRONT PORCH	181 SQ.FT.
UNHEATED REAR PORCH	180 SQ.FT.
TOTAL	361 SQ.FT.

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 181035B
ADDENDUM



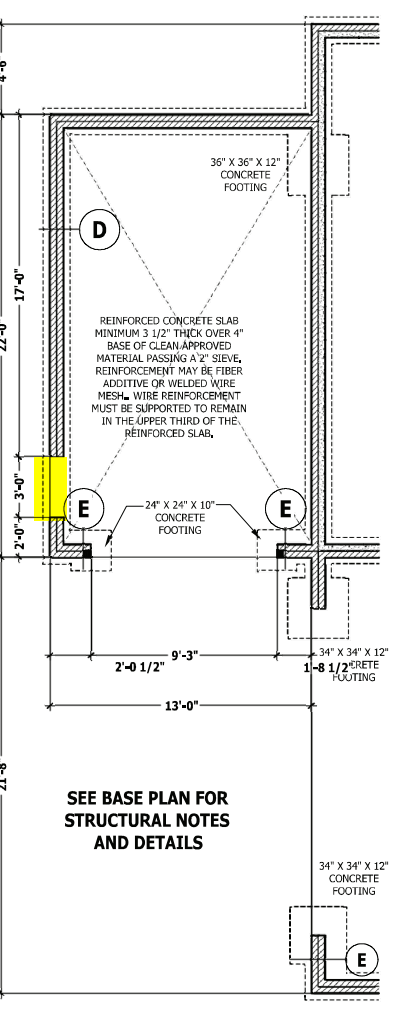
ROOF PLAN

SCALE 1/4" = 1'-0"



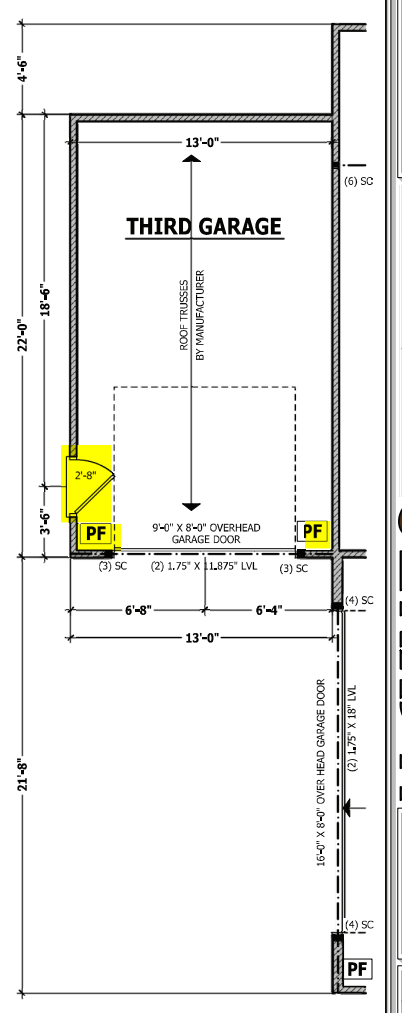
MONOLITHIC SLAB PLAN

SCALE 1/4" = 1'-0"



CRAWL SPACE / STEM WALL

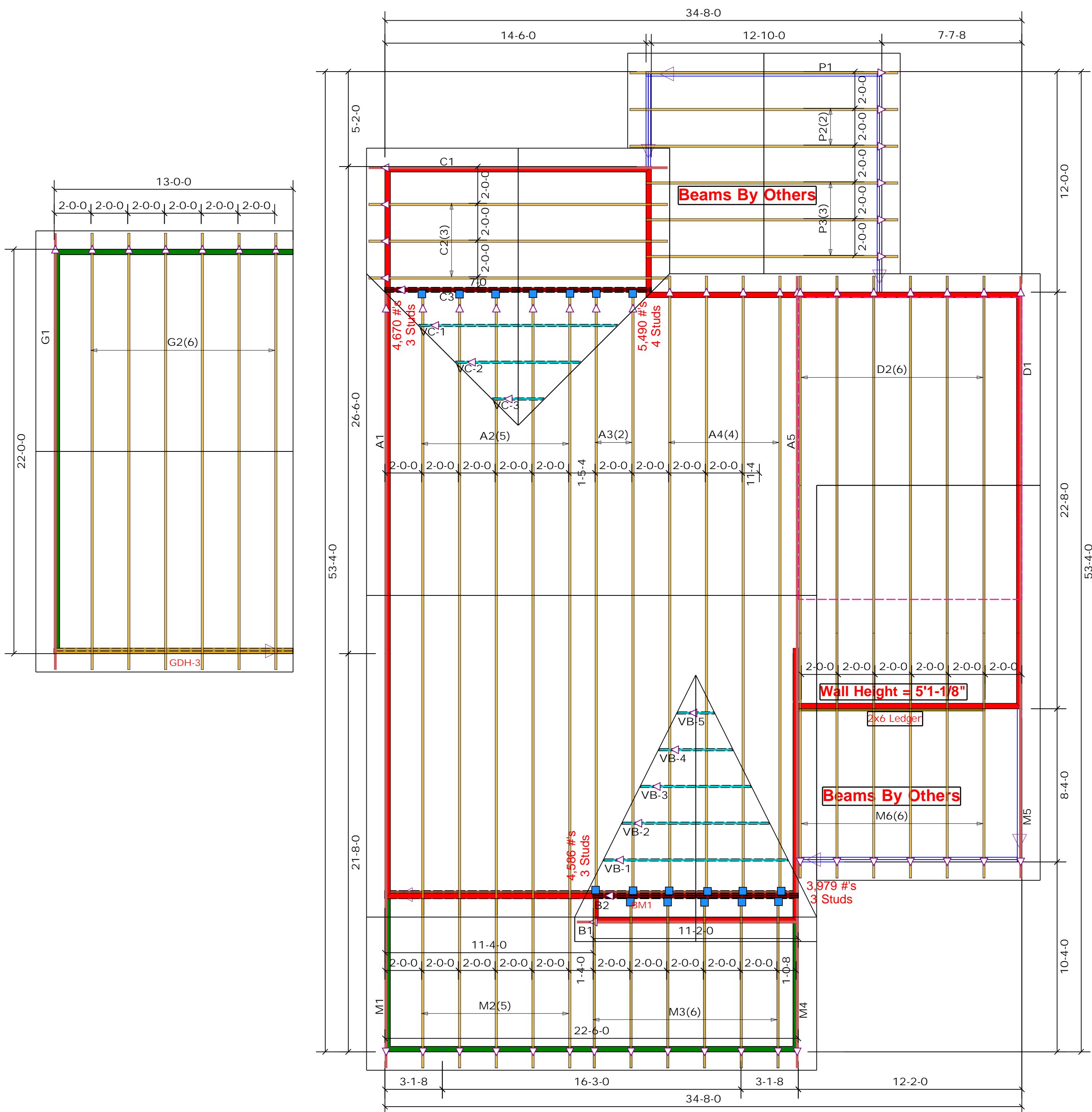
SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

Z:\Builder\Weaver Development Company, Inc\2001288 Gaston II\2001288 Gaston II Left.aec



	HUS26	USP	18	NA	16d/3-1/2"	16d/3-1/2"
--	-------	-----	----	----	------------	------------

= 1st Level Wall

= 2nd Level Wall

LVL					
PlotID	Length	Product	Plies	Net Qty	Fab Type
GDH-3	13-0-0	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

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

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

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

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

LOAD CHART FOR JACK STUDS

INT. REACTION (UP TO)	REACTING SURFACE	INT. REACTION (UP TO)	REACTING SURFACE
1700	1	2550	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7		
13600	8		
15300	9		

BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett
JOB NAME	Lot 4R Mitchell Manor	ADDRESS	159 Mitchell Manor Dr.
PLAN	Gaston II (181035B) 3 Car/SL	MODEL	Roof
SEAL DATE	N/A	DATE REV.	/ /
QUOTE #		DRAWN BY	Marshall Naylor
JOB #	J0522-2437	SALESMAN	Lenny Norris

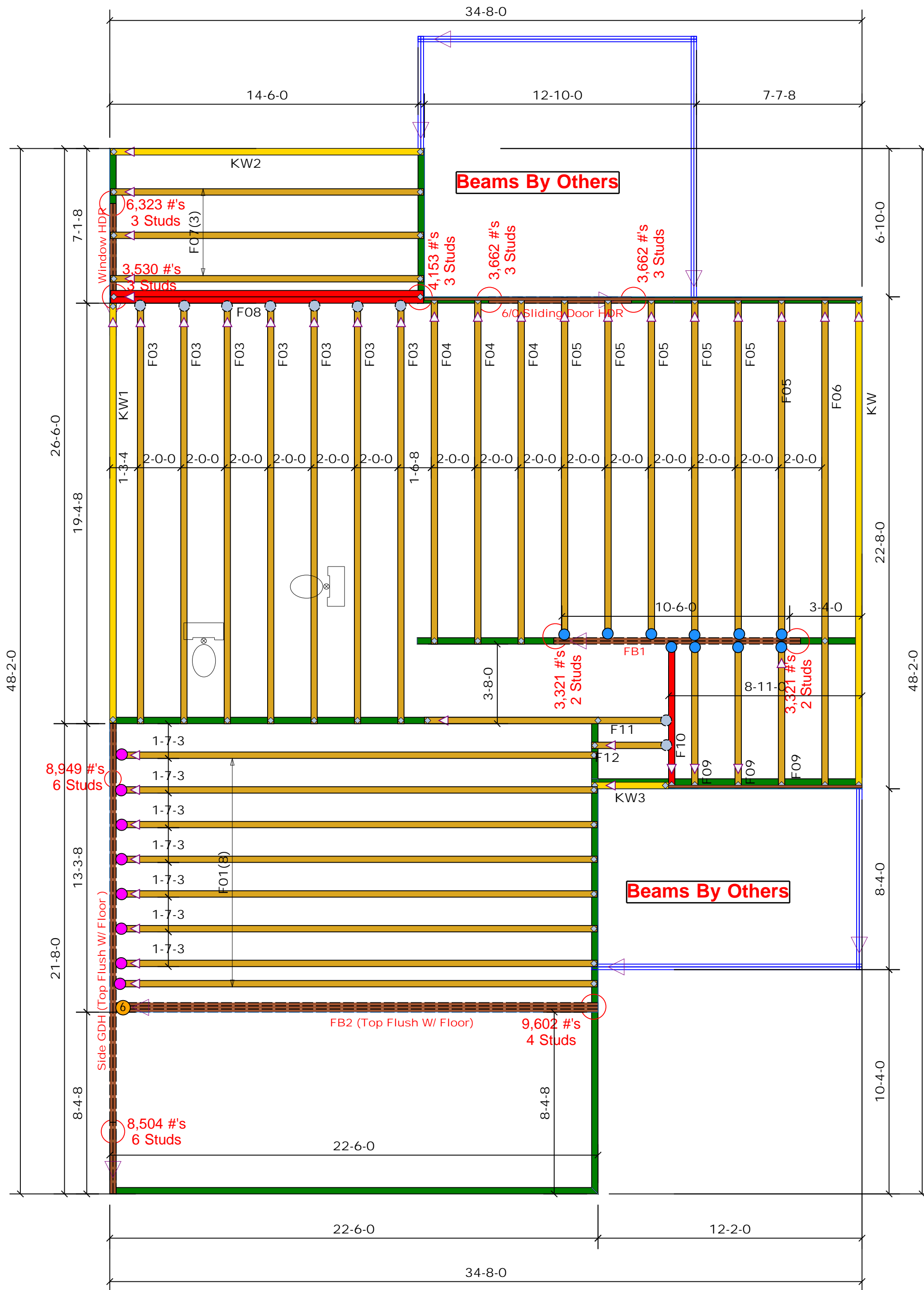
THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer 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 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 (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 specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Marshall Naylor

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444



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
FB1	12-0-0	1-3/4" x 14" LVL Kerto-S	2	2	FF
Window HDR	7-0-0	1-3/4" x 14" LVL Kerto-S	2	2	FF
FB2 (Top Flush W/ Floor)	23-0-0	1-3/4" x 23-7/8" LVL Kerto-S	3	3	FF
Side GDH (Top Flush W/ Floor)	22-0-0	1-3/4" x 23-7/8" LVL Kerto-S	2	2	FF

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
●	MSH422	USP	9	Varies	10d/3"	10d/3"
●	HUS412	USP	8	NA	16d/3-1/2"	16d/3-1/2"
⑥	THDH614	USP	1	NA	16d /3-1/2"	16d /3-1/2"

Truss Placement Plan
SCALE: NTS

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

LOAD CHART FOR JACK STUDS

MEMBER SIZE	SPACING	LOAD (LBS)
1700	1	2550
1700	2	5100
5100	3	7650
6800	4	10200
8500	5	12750
10200	6	15300
11900	7	
13600	8	
15300	9	

BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett
JOB NAME	Lot 4R Mitchell Manor	ADDRESS	159 Mitchell Manor Dr.
PLAN	Gaston II (181035B) 3 Car/SL	MODEL	Floor
SEAL DATE	N/A	DATE REV.	/ /
QUOTE #	B0520-1988	DRAWN BY	Marshall Naylor
JOB #	J0522-2438	SALESMAN	Lenny Norris

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 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 BCSH-B1 and BCSH-B3 provided with the truss delivery package 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 (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 specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Marshall Naylor

ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

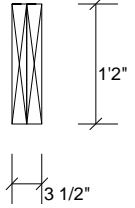
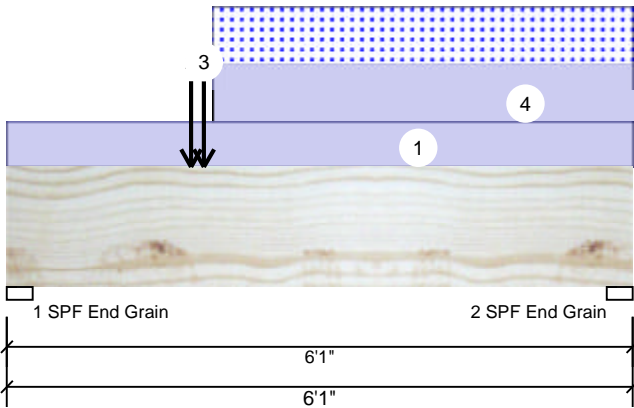


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

Window HDR Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	723	4403	1838	0	0
2	Vertical	282	2388	1142	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	72%	4403 / 1920	6323	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	Vert	40%	2388 / 1142	3530	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10224 ft-lb	1'11"	31049 ft-lb	0.329 (33%)	D+0.75(L+S)	L
Unbraced	10224 ft-lb	1'11"	17620 ft-lb	0.580 (58%)	D+0.75(L+S)	L
Shear	6150 lb	1'5"	12021 lb	0.512 (51%)	D+0.75(L+S)	L
LL Defl inch	0.016 (L/4193)	2'3 15/16"	0.143 (L/480)	0.114 (11%)	0.75(L+S)	L
TL Defl inch	0.052 (L/1315)	2'4"	0.190 (L/360)	0.274 (27%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Point	1-9-8		Top	3014 lb	1005 lb	0 lb	0 lb	0 lb	F8
	Bearing Length	0-3-8								
3	Point	1-11-0		Top	2335 lb	0 lb	2335 lb	0 lb	0 lb	C3
	Bearing Length	0-3-8								
4	Part. Uniform	2-0-0 to 6-1-0		Top	158 PLF	0 PLF	158 PLF	0 PLF	0 PLF	C2
	Self Weight				11 PLF					

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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



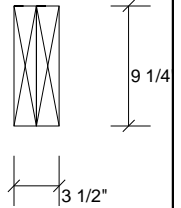
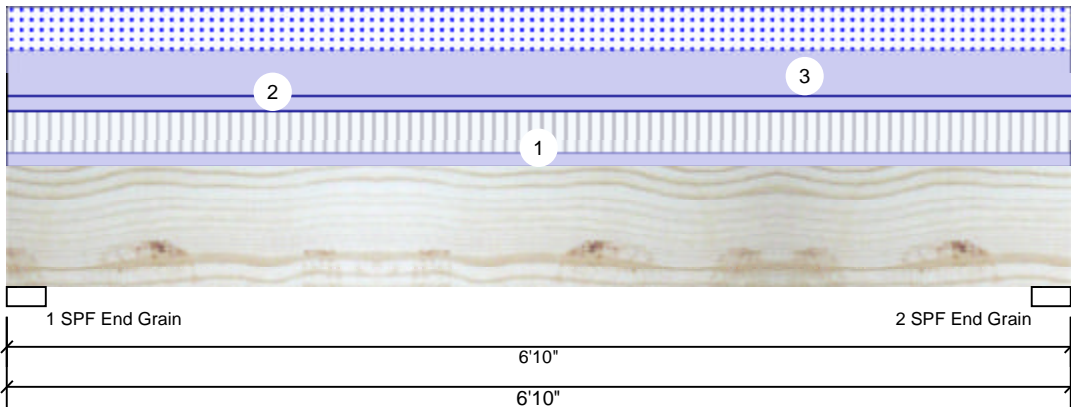


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

6/0 Sliding Door HDR Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1100	1965	1162	0	0
2	Vertical	1100	1965	1162	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	42%	1965 / 1696	3662	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	Vert	42%	1965 / 1696	3662	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5588 ft-lb	3'5"	14423 ft-lb	0.387 (39%)	D+0.75(L+S)	L
Unbraced	5588 ft-lb	3'5"	10130 ft-lb	0.552 (55%)	D+0.75(L+S)	L
Shear	2573 lb	1' 1/4"	7943 lb	0.324 (32%)	D+0.75(L+S)	L
LL Defl inch	0.051 (L/1511)	3'5"	0.161 (L/480)	0.318 (32%)	0.75(L+S)	L
TL Defl inch	0.111 (L/700)	3'5"	0.215 (L/360)	0.514 (51%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	108 PLF	322 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Top	340 PLF	0 PLF	340 PLF	0 PLF	0 PLF	A4
	Self Weight				7 PLF					

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
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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 28314
 910-864-TRUS

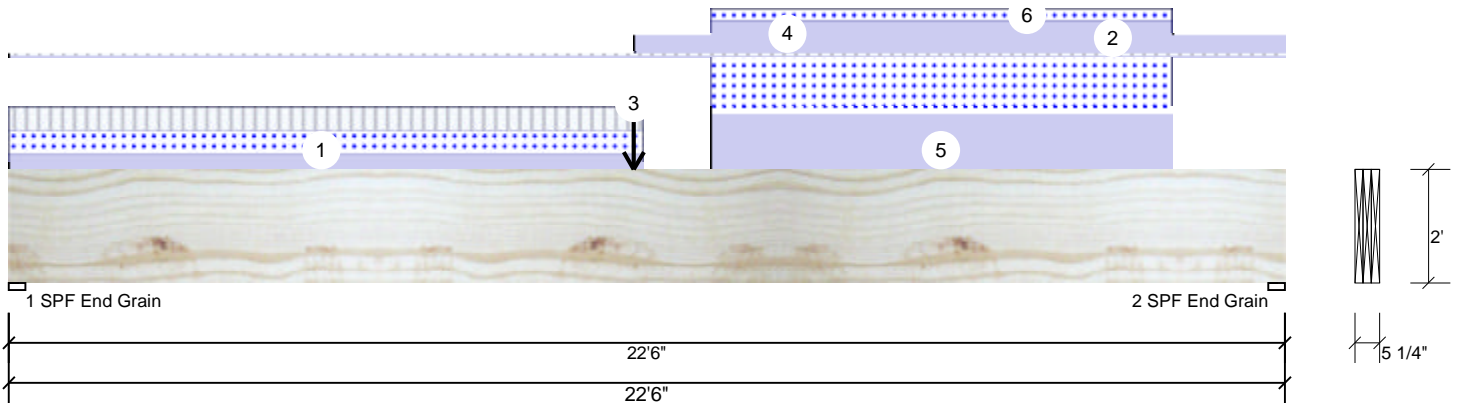


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

FB2 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1493	3705	3383	0	0
2	Vertical	632	5449	4153	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	48%	3705 / 3657	7362	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	Vert	62%	5449 / 4153	9602	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	59233 ft-lb	11' 1/4"	131295 ft-lb	0.451 (45%)	D+S	L
Unbraced	59233 ft-lb	11' 1/4"	59272 ft-lb	0.999 (100%)	D+S	L
Shear	9560 lb	20' 2 1/2"	30912 lb	0.309 (31%)	D+S	L
LL Defl inch	0.209 (L/1267)	11' 4"	0.552 (L/480)	0.379 (38%)	S	L
TL Defl inch	0.454 (L/583)	11' 5 7/16"	0.735 (L/360)	0.618 (62%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 4' 5 3/4" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 11-2-0		Near Face	100 PLF	150 PLF	150 PLF	0 PLF	0 PLF	M3
2	Tie-In	0-0-0 to 22-6-0	0-6-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	1' Floor
3	Point	11-0-4		Top	2294 lb	0 lb	2294 lb	0 lb	0 lb	B2
	Bearing Length	0-3-8								
4	Part. Uniform	11-0-4 to 22-6-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
5	Part. Uniform	12-4-8 to 20-6-0		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	A2

Continued on page 2...

Notes

Calculated Structural 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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

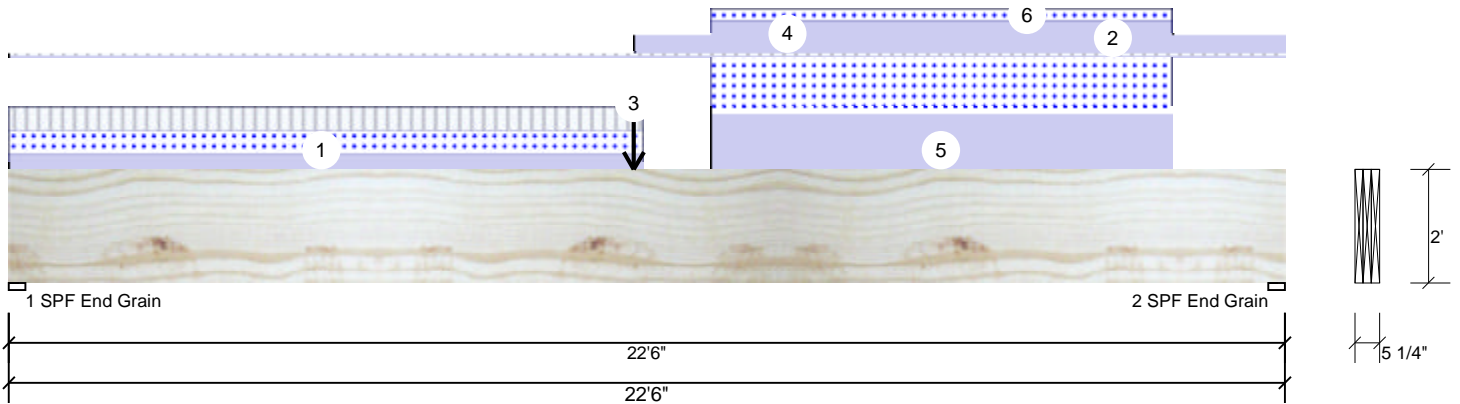
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 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
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 28314
 910-864-TRUS



FB2 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Part. Uniform	12-4-8 to 20-6-0		Near Face	79 PLF	0 PLF	79 PLF	0 PLF	0 PLF	M2
	Self Weight				28 PLF					

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

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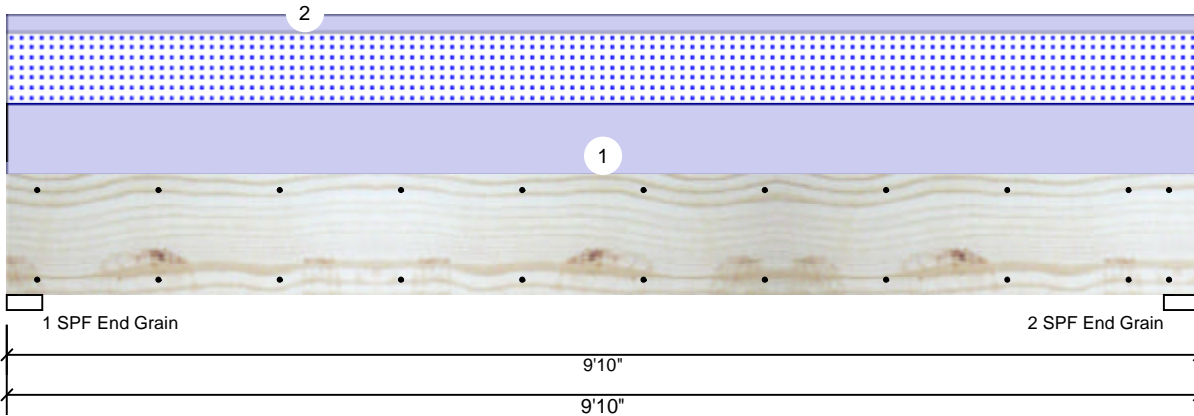


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

GDH-2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1540	1200	0	0
2	Vertical	0	1540	1200	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	27%	1540 / 1200	2740	L	D+S
2 - SPF End Grain	3.500"	Vert	27%	1540 / 1200	2740	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6122 ft-lb	4'11"	22897 ft-lb	0.267 (27%)	D+S	L
Unbraced	6122 ft-lb	4'11"	9857 ft-lb	0.621 (62%)	D+S	L
Shear	2035 lb	1'3 3/8"	10197 lb	0.200 (20%)	D+S	L
LL Defl inch	0.051 (L/2213)	4'11"	0.234 (L/480)	0.217 (22%)	S	L
TL Defl inch	0.116 (L/969)	4'11"	0.312 (L/360)	0.372 (37%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	244 PLF	0 PLF	244 PLF	0 PLF	0 PLF	G2
2	Uniform			Top	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Load
	Self Weight				9 PLF					

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

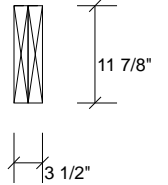
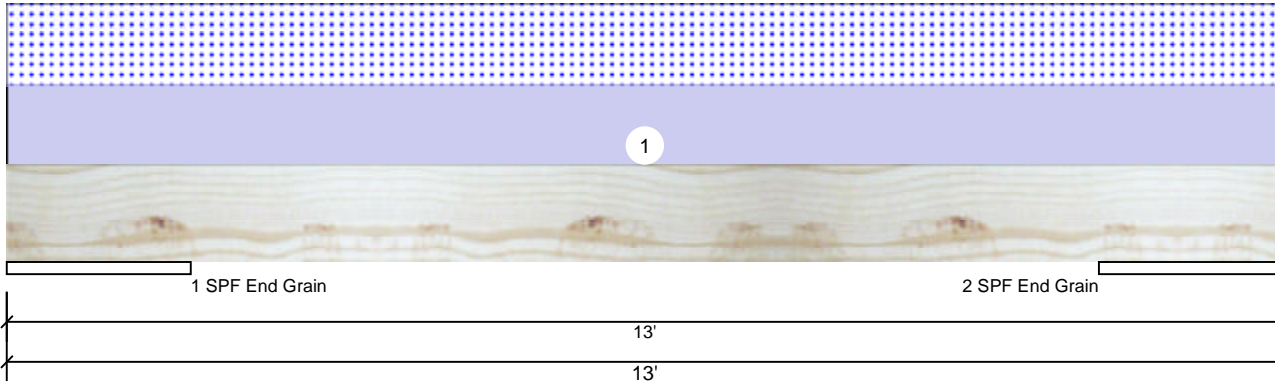
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 USA
 28314
 910-864-TRUS



FB1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1685	1625	0	0
2	Vertical	0	1685	1625	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	22.500"	Vert	5%	1685 / 1625	3310	L	D+S
2 - SPF End Grain	22.500"	Vert	5%	1685 / 1625	3310	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5595 ft-lb	6'6"	22897 ft-lb	0.244 (24%)	D+S	L
Unbraced	5595 ft-lb	6'6"	9857 ft-lb	0.568 (57%)	D+S	L
Shear	1860 lb	2'10 3/8"	10197 lb	0.182 (18%)	D+S	L
LL Defl inch	0.052 (L/2160)	6'6"	0.234 (L/480)	0.222 (22%)	S	L
TL Defl inch	0.106 (L/1060)	6'6"	0.312 (L/360)	0.340 (34%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	250 PLF	0 PLF	250 PLF	0 PLF	0 PLF	G2
	Self Weight				9 PLF					

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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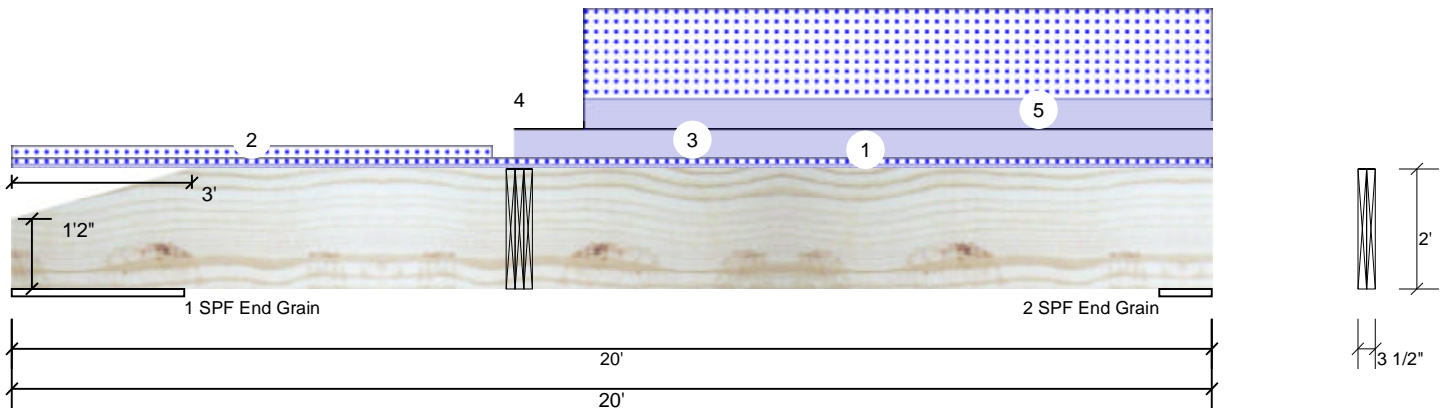


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

Side GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	414	4766	4182	0	0
2	Vertical	218	4109	4395	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	34.500"	Vert	9%	4766 / 4182	8949	L	D+S
2 - SPF End Grain	10.500"	Vert	28%	4109 / 4395	8504	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	47951 ft-lb	8'5 1/2"	84163 ft-lb	0.570 (57%)	D+S	L
Unbraced	47951 ft-lb	8'5 1/2"	48066 ft-lb	0.998 (100%)	D+S	L
Shear	9556 lb	4'10 1/2"	20608 lb	0.464 (46%)	D+S	L
Lt. Scarf	157 psi, 8784 lb		368 psi	0.427 (43%)	D+S	L
LL Defl inch	0.153 (L/1286)	10'6 3/16"	0.410 (L/480)	0.373 (37%)	S	L
TL Defl inch	0.320 (L/615)	10'4 7/16"	0.547 (L/360)	0.585 (59%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Notches in LVL are in accordance with APA Form No. EWS G535, Figure 1.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'7 7/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 20-0-0	1-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	2' Roof
2	Part. Uniform	8-0-0 to 0-0-0		Top	0 PLF	0 PLF	50 PLF	0 PLF	0 PLF	Gable
3	Part. Uniform	8-4-4 to 20-0-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall

Continued on page 2...

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

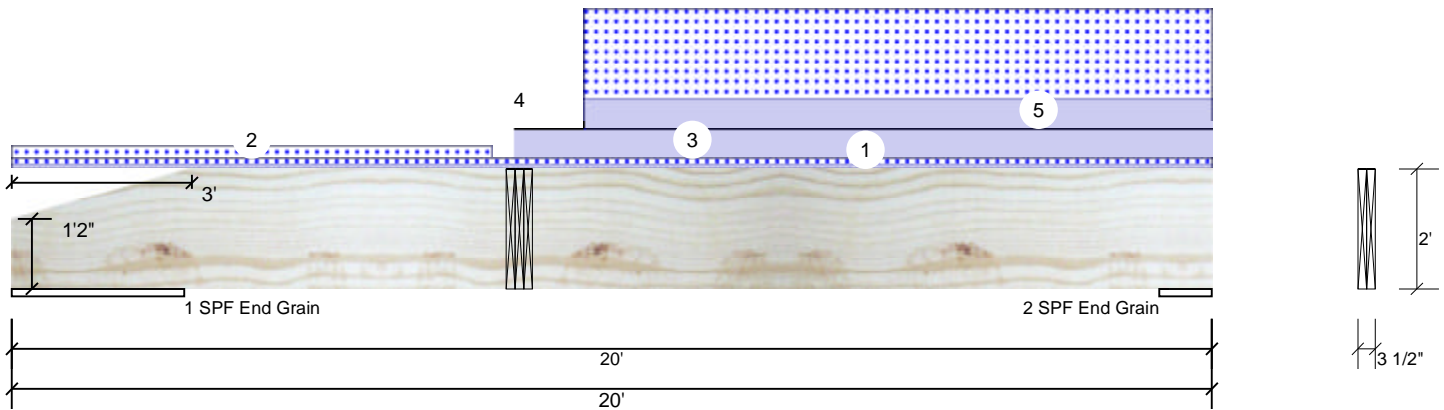
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Side GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Point	8-5-8		Far Face	5449 lb	632 lb	4153 lb	0 lb	0 lb	FB2 Brg 2
5	Part. Uniform Self Weight	9-6-8 to 20-0-0		Far Face	120 PLF 19 PLF	0 PLF	360 PLF	0 PLF	0 PLF	F01

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

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

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