



FRONT ELEVATION

WITH SIDE LOAD OPTION

SCALE 1/8" = 1'-0"



PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

	MEAN ROOF HEIGHT: 24'-11"			HEIGHT TO RIDGE: 30'-9"		
CLIMATE ZONE	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
SKYLIGHT U-FACTOR	0.55	0.55	0.55	0.55	0.55	0.55
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	19	15	15	19
FLOOR R-VALUE	19	19	30	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19	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	ZONE 2	ZONE 3	ZONE 4
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4

DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS								
MEAN ROOF	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'	ZONE 1	ZONE 2	ZONE 3	ZONE 4
ZONE 1	16.7	-18.0	17.5	-18.9	18.2	-19.6	18.7	-20.2
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 3	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9

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 = 1,597 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 10.64 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 = 5.32 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:

- 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.
- 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:

- 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.
- 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:

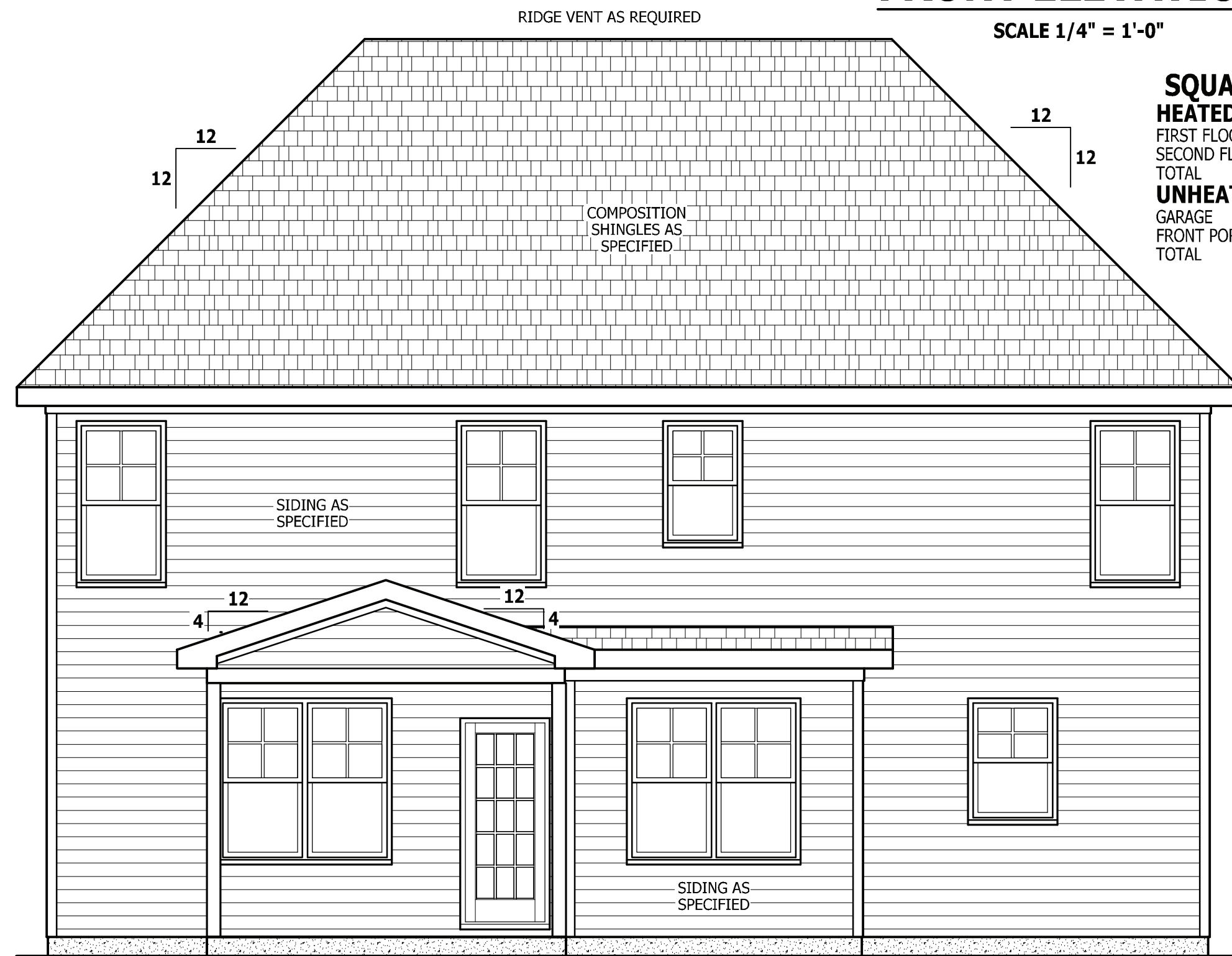
- Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.
- Capping and sealing shafts or chases, including flue shafts.

- Capping and sealing soffit or dropped ceiling areas.



FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE 1/4" = 1'-0"

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1038 SQ.FT.
SECOND FLOOR	1300 SQ.FT.
TOTAL	2338 SQ.FT.
UNHEATED	
GARAGE	434 SQ.FT.
FRONT PORCH	125 SQ.FT.
TOTAL	559 SQ.FT.

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

FRONT AND REAR ELEVATION

CL-2338

Caviness Land Building and Development Company
Builder of Excellence

HAYNES HOME PLANS, INC.
P.O. BOX 702, WAKE FOREST, NC 27788 919-485-6180 FAX 919-485-4911-0396

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1038 SQ.FT.
SECOND FLOOR	1300 SQ.FT.
TOTAL	2338 SQ.FT.
UNHEATED	
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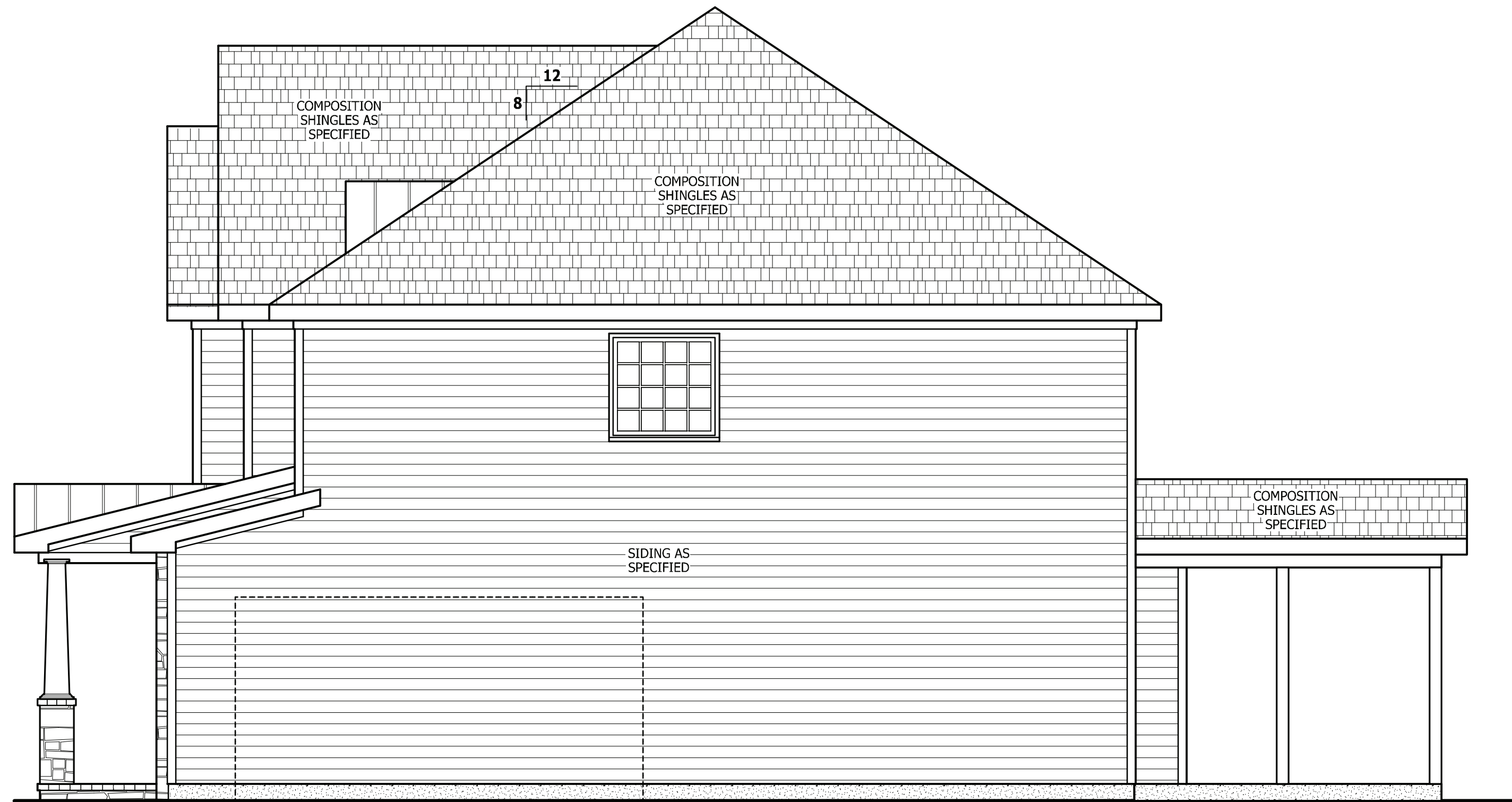
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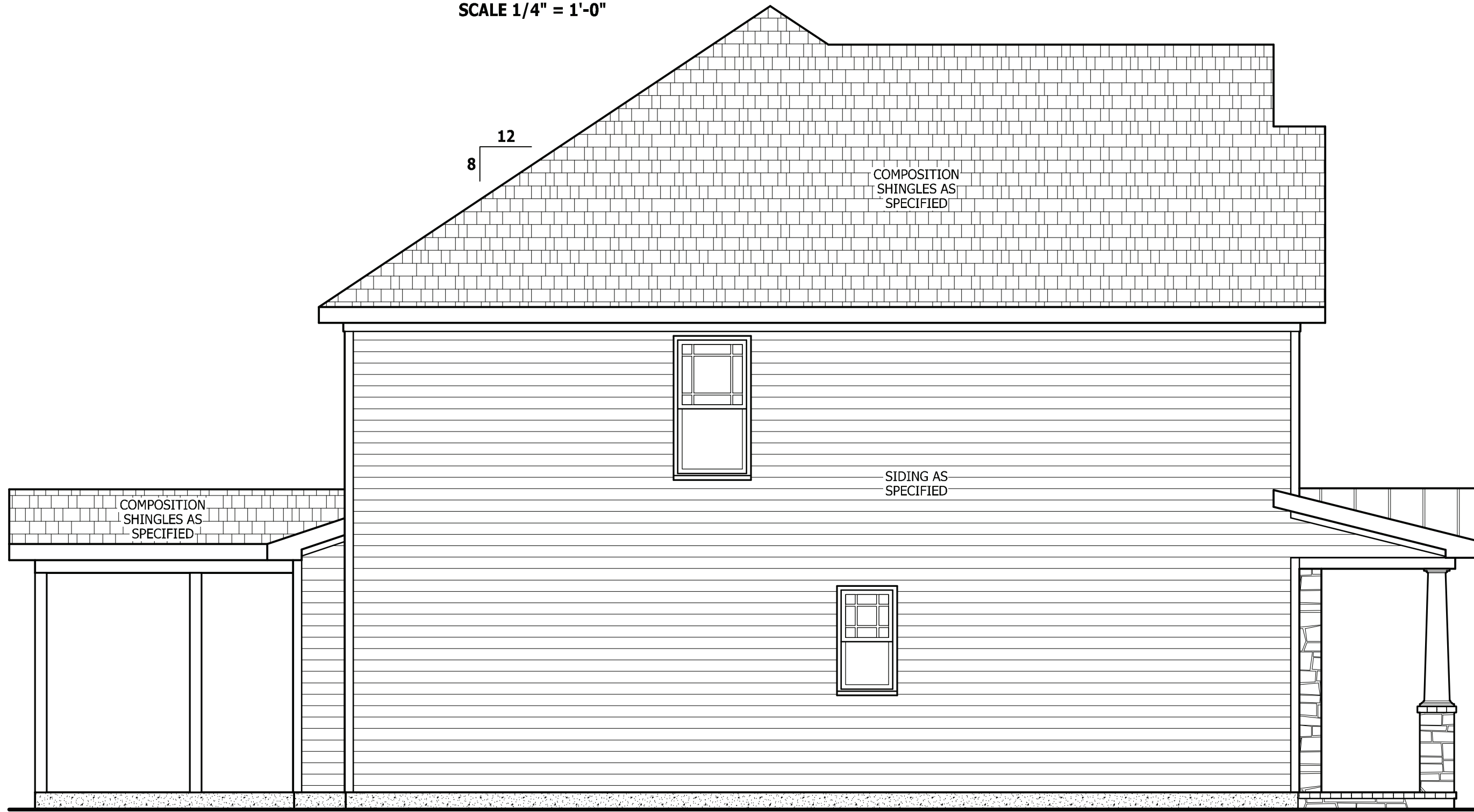
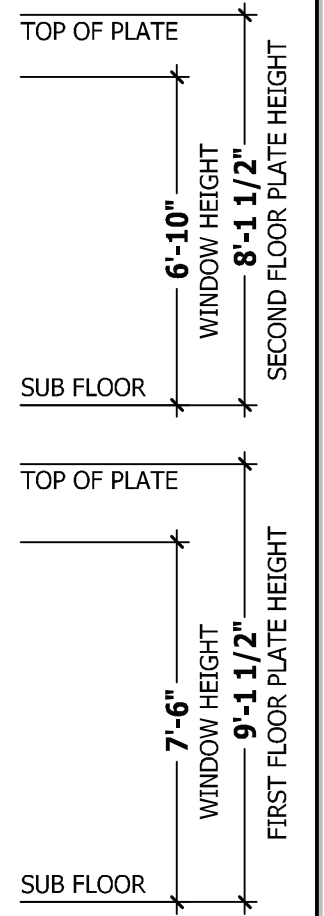


LINE OF OPTIONAL SIDE LOAD GARAGE DOOR

RIGHT SIDE ELEVATION

SCALE 1/4" = 1'-0"

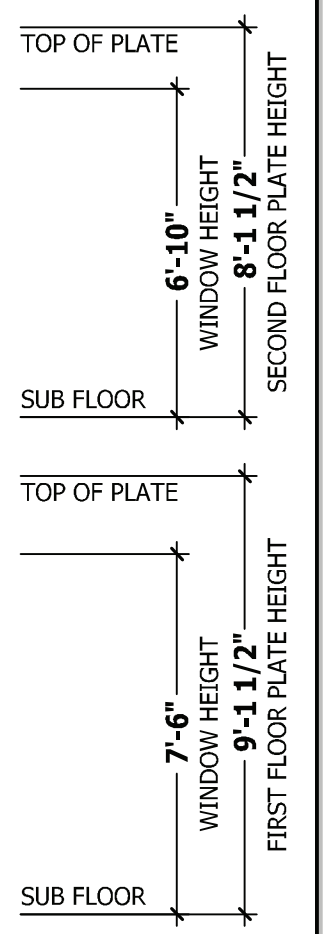
OPTIONAL COVERED PORCH **YES**



OPTIONAL COVERED PORCH **YES**

LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"



REAR & SIDE ELEVATIONS
CL-2338

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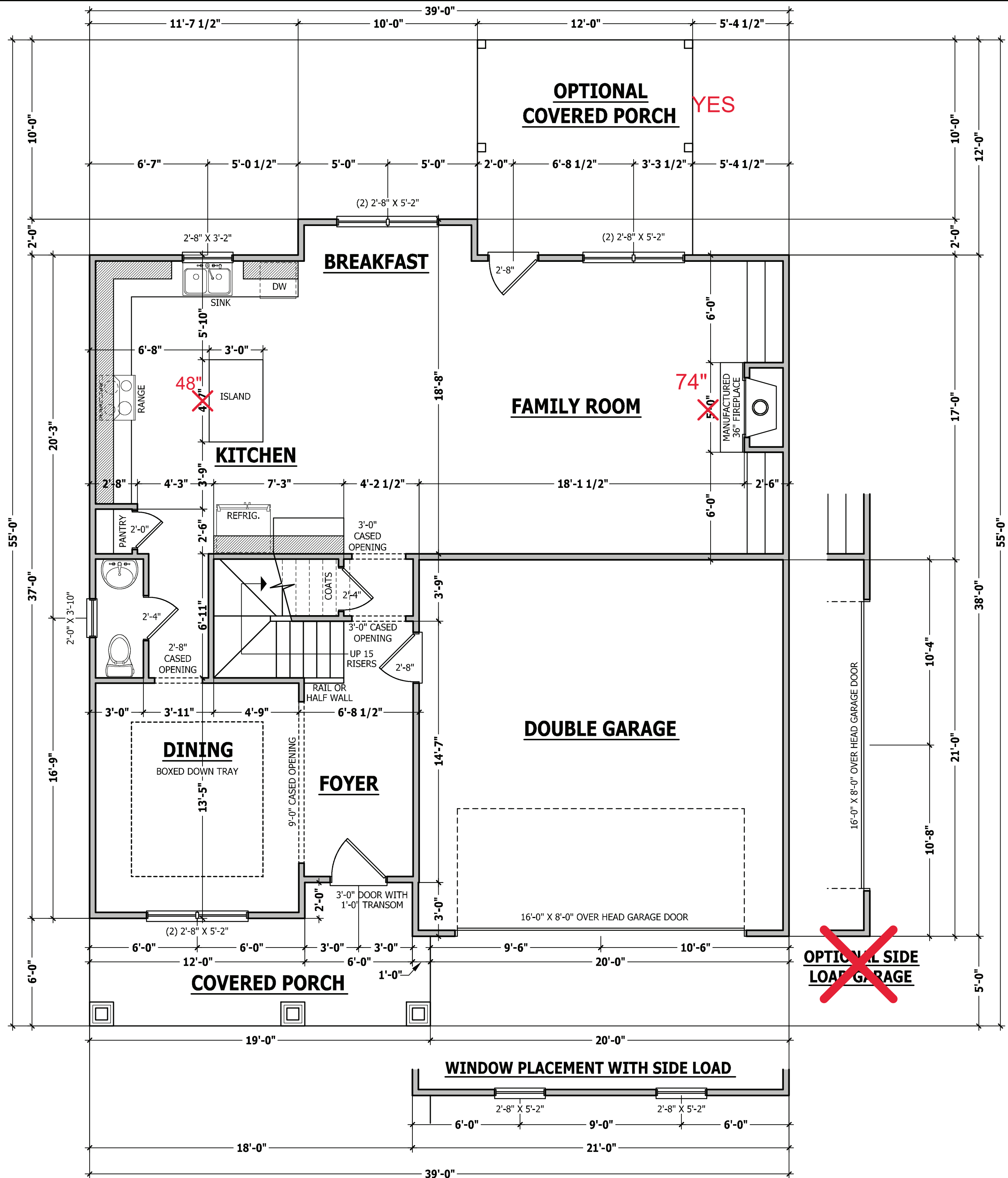
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FIRST FLOOR PLAN
CL-2338

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ATTIC ACCESS

SECTION R807
R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.
Exceptions:
1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.
2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.
Interior walls are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7
WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.
STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.
CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.
OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.
DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.
OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

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		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 otherwise.

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 manufacturer's 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 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 for 16" on center rafters and 7/16" for 24" on center rafters.

CONCRETE AND SOILS: See foundation notes.

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 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.

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EXTERIOR HEADERS

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

UNLESS NOTED OTHERWISE

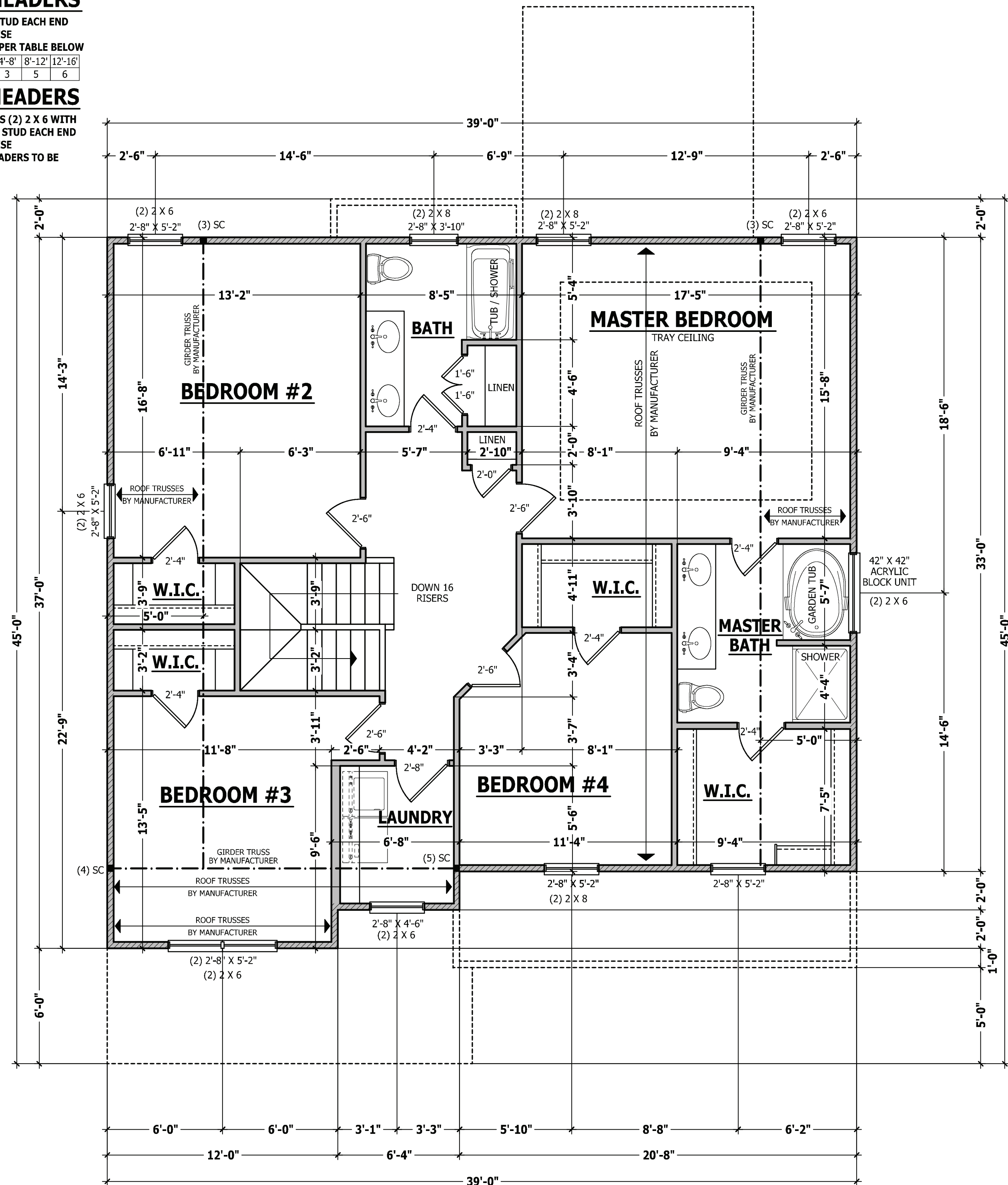
- KING STUDS EACH END PER TABLE BELOW

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



SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

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

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SECOND FLOOR PLAN

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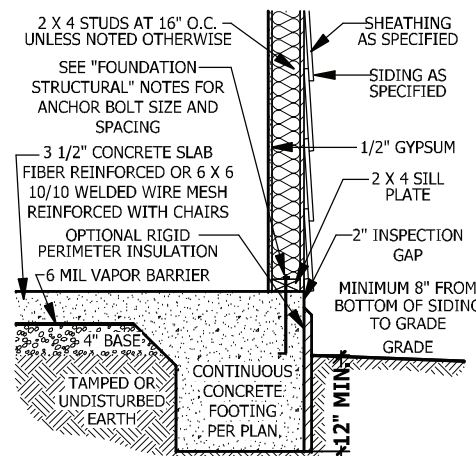
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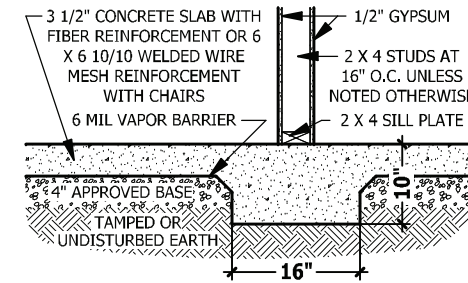
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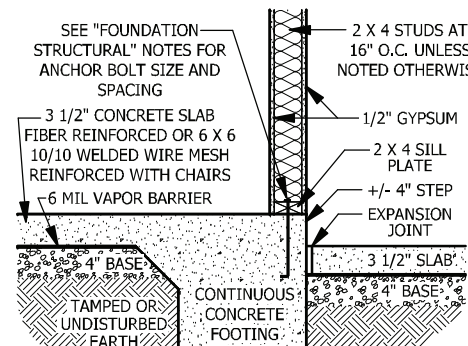
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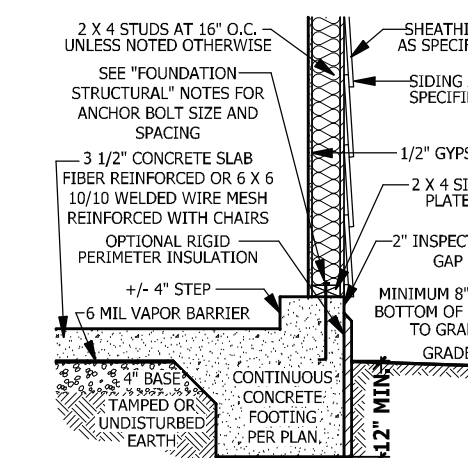
A MONOLITHIC SECTION
SCALE 1/2" = 1'-0"



B LUG FOOTING SECTION
SCALE 1/2" = 1'-0"



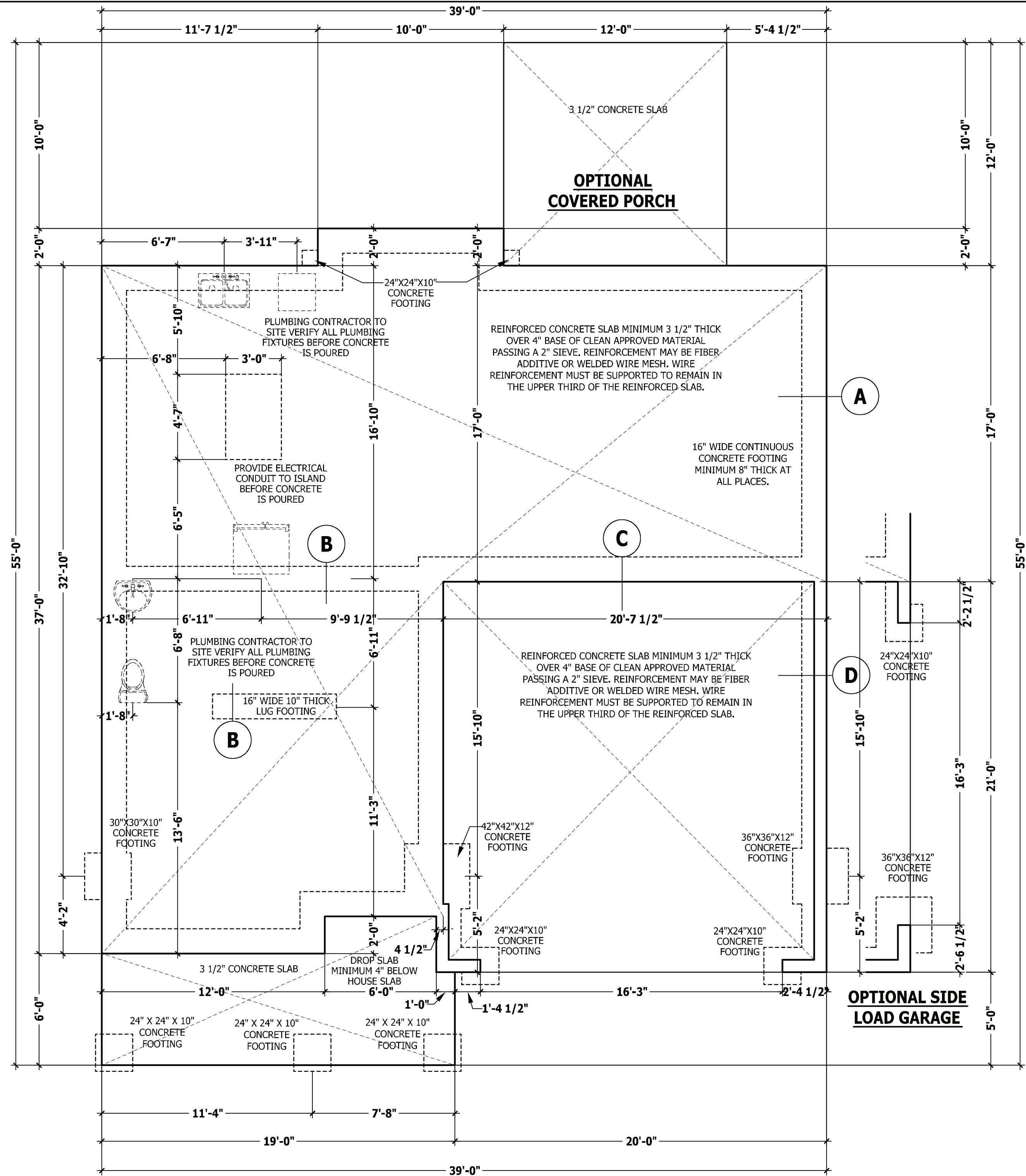
C MONOLITHIC AT STEP
SCALE 1/2" = 1'-0"



D MONOLITHIC AT GARAGE
SCALE 1/2" = 1'-0"

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 be 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.



MONOLITHIC SLAB PLAN

SCALE 1/4" = 1'-0"

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MONOLITHIC SLAB PLAN
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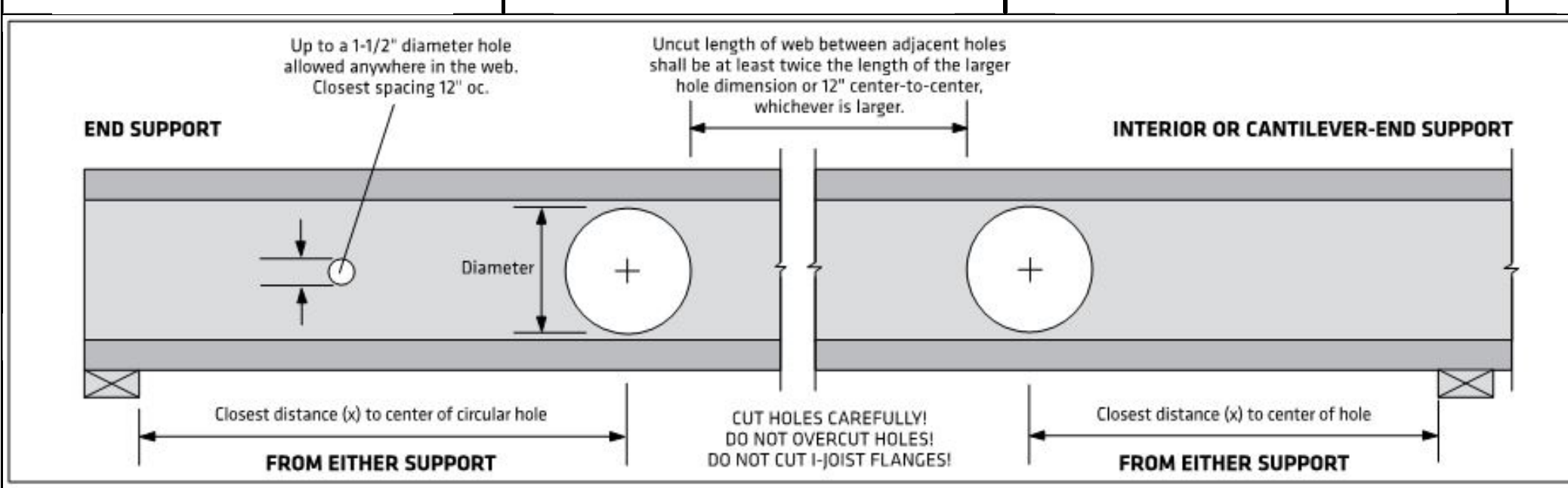
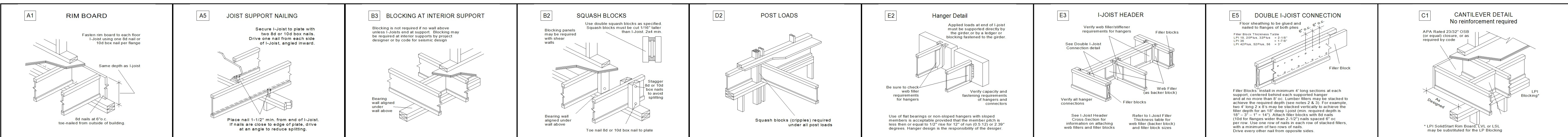
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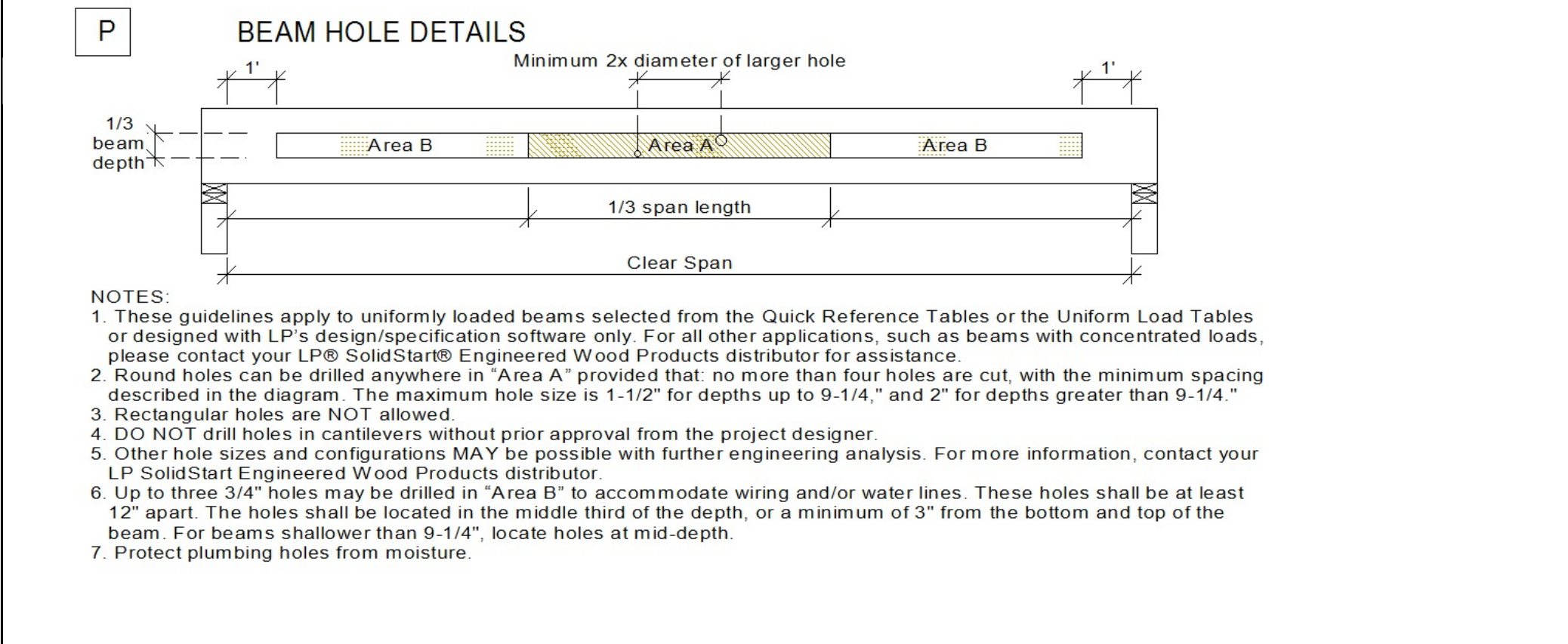
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- TO USE:**
- Select the required series and depth.
 - Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
 - Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
 - Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
 - The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of bearing to the center of a circular hole.
 - Double check the distance to the other support, using the appropriate support condition.

Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
		Hole Diameter						Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-	
	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-	
	22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-	
	26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-	
16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	4'-0"	5'-6"	6'-0"	7'-0"	8'-0"	9'-0"
	26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"
	30'	5'-9"	7'-0"	8'-4"	9'-9"	11'-3"	12'-10"	9'-0"	10'-0"	11'-0"	12'-0"	13'-2"	14'-8"

- DESIGN ASSUMPTIONS:**
- The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" o.c.).
 - Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
 - Clear Span has not been verified for these joists and is shown for informational purposes only! Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
 - The maximum hole depth for circular holes is the I-joist Depth less 4", except the maximum hole depth is 6" for 9'-1/2" LPI joists, and 8" for 11'-7/8" LPI joists.
 - Holes cannot be located in the span where designated "X", without further analysis by a design professional.
- NOTES:**
- Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
 - Round holes up to 1-1/2" diameter may be placed anywhere in the web.
 - Perforated "knockouts" may be neglected when locating web holes.
 - Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
 - Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
 - Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompass the holes.
 - For conditions not covered in this table, use LP's design software or contact your local LP® SolidStart® Engineered Wood Products distributor for more information.

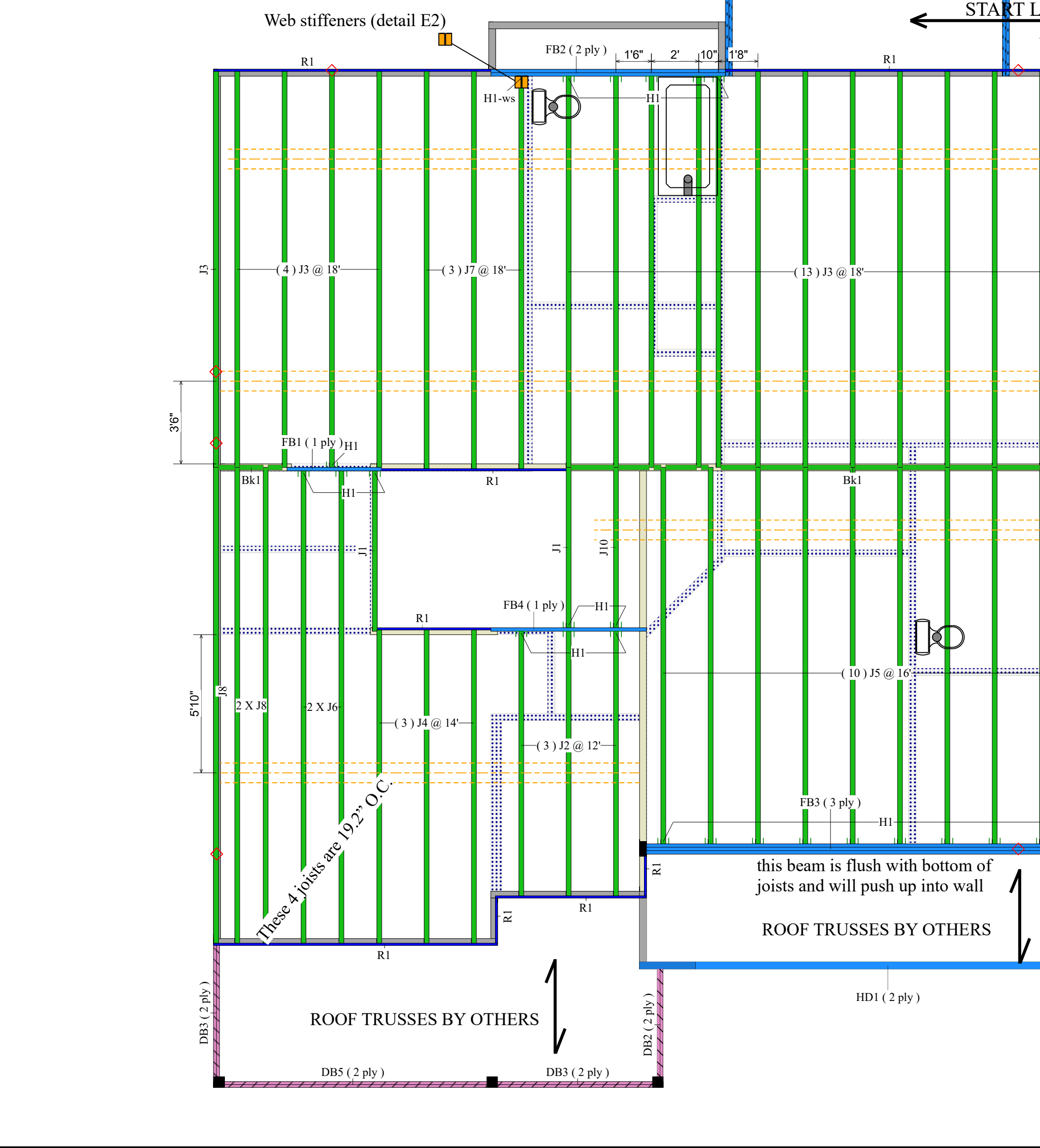
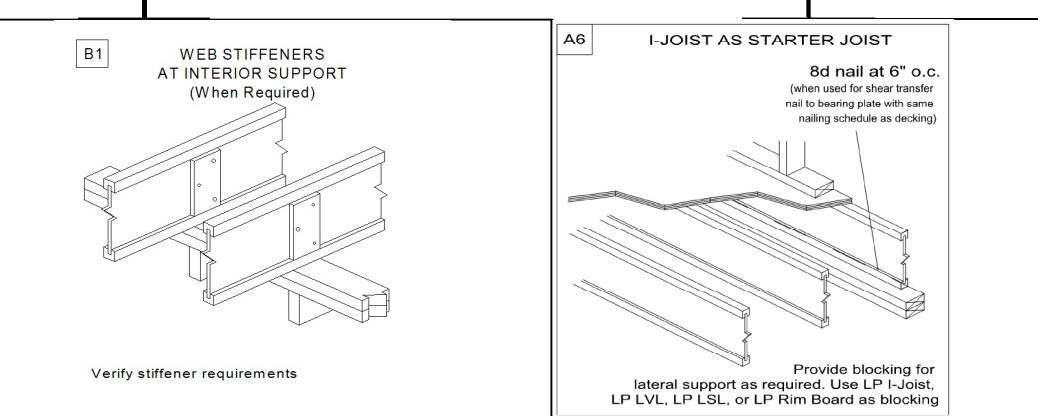


Web Stiffeners, Rim & Blocking, Nailing

WEB STIFFENER REQUIREMENTS

Series	Depth	Minimum Thickness	Maximum Height	Nail Size*	Nail Qty
LPI 18	9-1/2"	23/32"	6-3/8"	8d (2-1/2")	3
LPI 20Plus	10-7/8"	23/32"	8-3/8"	8d (2-1/2")	3
LPI 23Plus	14"	23/32"	10-7/8"	8d (2-1/2")	3
LPI 36	17-7/8"	23/32"	8-3/4"	8d (2-1/2")	4
	14"	23/32"	10-7/8"	8d (2-1/2")	5
LPI 42Plus	9-1/2"	5/8"	6-3/8"	10d (3")	3
	11-7/8"	5/8"	8-3/4"	10d (3")	3
LPI 52Plus	14"	5/8"	10-7/8"	10d (3")	3
	16"	5/8"	12-7/8"	10d (3")	3
LPI 56	11-7/8"	5/8"	8-3/4"	10d (3")	4
	14"	5/8"	10-7/8"	10d (3")	5
	16"	5/8"	12-7/8"	10d (3")	6

*Nails may be Box or Common.



2nd Floor I Joist (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J8	LPI 20Plus	2.5	14			3	22-0-0
J6	LPI 20Plus	2.5	14			2	20-0-0
J7	LPI 20Plus	2.5	14			3	18-0-0
J3	LPI 20Plus	2.5	14			19	18-0-0
J5	LPI 20Plus	2.5	14			11	16-0-0
J4	LPI 20Plus	2.5	14			3	14-0-0
J2	LPI 20Plus	2.5	14			3	12-0-0
J10	LPI 20Plus	2.5	14			1	8-0-0
J1	LPI 20Plus	2.5	14			2	8-0-0

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB2	LP-LVL 2900Fb-2.0E	1.75	14	1	2	2	10-0-0
FB4	LP-LVL 2900Fb-2.0E	1.75	14			1	8-0-0
FB1	LP-LVL 2900Fb-2.0E	1.75	14			1	4-0-0
FB3	LP-LVL 2900Fb-2.0E	1.75	20	1	3	3	22-0-0

LVL/LSL (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
Opt. CP Beam	LP-LVL 2900Fb-2.0E	1.75	9.25	2	2	4	14-0-0
HD1	LP-LVL 2900Fb-2.0E	1.75	11.875	1	2	2	22-0-0

Beam By Others (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB5	[2x10]			2	2	4	12-0-0
DB3	[2x10]			2	2	4	8-0-0
DB2	[2x10]			1	2	2	6-0-0

Rim Board

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 14	1.125	14			6	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BK1	LPI 20 Plus	2.5	14			Varies	23-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
H1	25	IUS2.56/14 (Min)			12 10d	

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Project
25977

Created
April 07, 2021

Layout Name
202103-25977

Description
Caviness Land
CL2338 - 4 Alexander

Designer
Kyle Militzer

2nd Floor
Design Method ASD (USA)
Building Code IRC 2018

Floor
Loads Live 40
Dead 10
Decking OSB
Decking 23/32 APA Rated Sturd-I-Floor
Fastener Nailed & Glued

Legend

- ws Web Stiffener
- ws In Hanger Label Denotes Web Stiffener
- Load from Above
- 3.5" Ext Wall
- 3.5" Int Wall
- 3.5" Non-Brg Wall
- 5.5" Non-Brg Wall
- Wall Opening
- LP APA Rated OSB 1.125 X 14
- LPI 20Plus 14
- LP-LVL 2900Fb-2.0E 1.75 X 9.25 (Dropped)
- LP-LVL 2900Fb-2.0E 1.75 X 11.875 (Dropped)
- LP-LVL 2900Fb-2.0E 1.75 X 14
- LP-LVL 2900Fb-2.0E 1.75 X 20
- 1.5 X 9.25 (Dropped)

Important Notes
WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.

These instructions are offered as a guide to good practice in the handling, storage and installation of LP® SolidStart® I-joists, LP SolidStart LVL & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the entire building.

This is not intended as a manual for selecting products and assumes that components and details have been specified correctly.

Consult the LP SolidStart I-joist, LP SolidStart LVL & LP SolidStart LSL brochures or contact your LP SolidStart products distributor for assistance.

All rim joists, blocking, connections and temporary bracing must be installed before erectors are allowed on the structure.

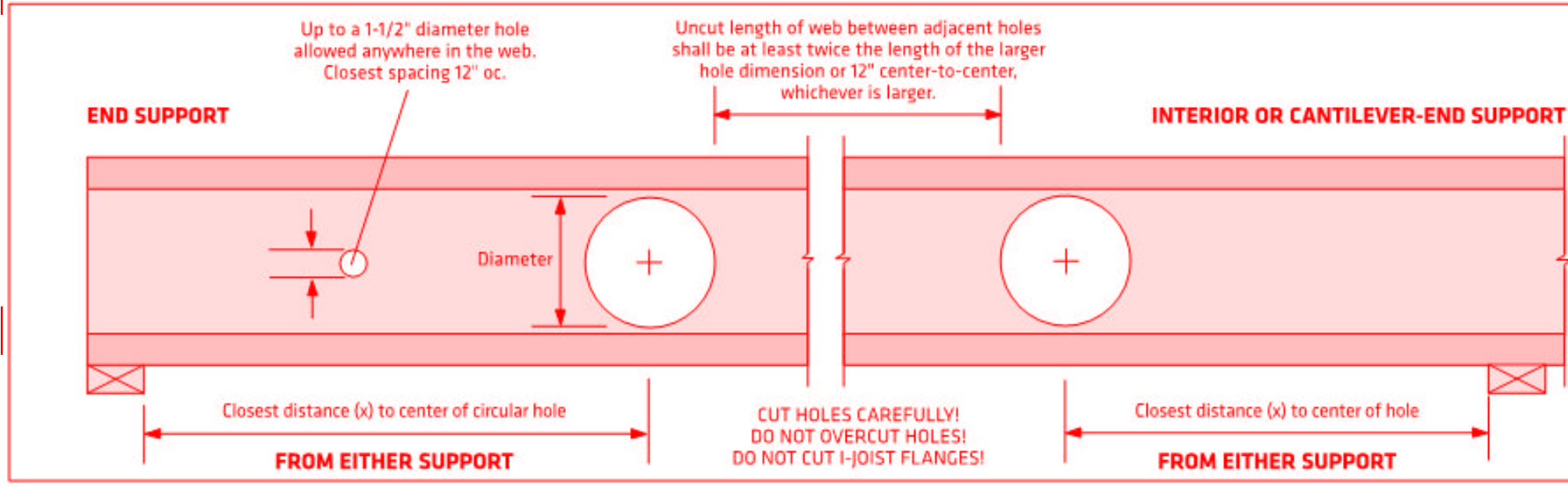
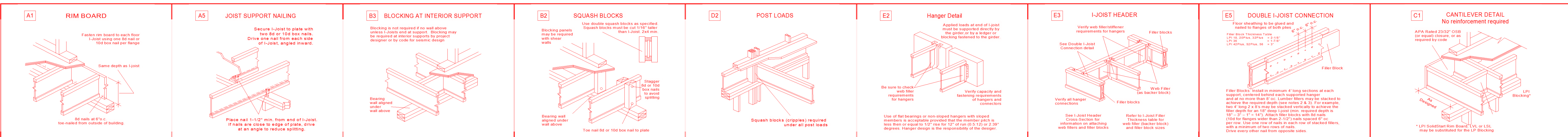
No loads other than the weight of the erectors are to be imposed on the structure before it is permanently sheathed.

After sheathing, do not overload joists with construction materials exceeding design loads.

LP SolidStart Joists, LP SolidStart LVL & LP SolidStart LSL beams must be used under dry, covered and well ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 16%.

Handling & Storage
Keep LP SolidStart I-joists, LP SolidStart LVL & LP SolidStart LSL beams dry.

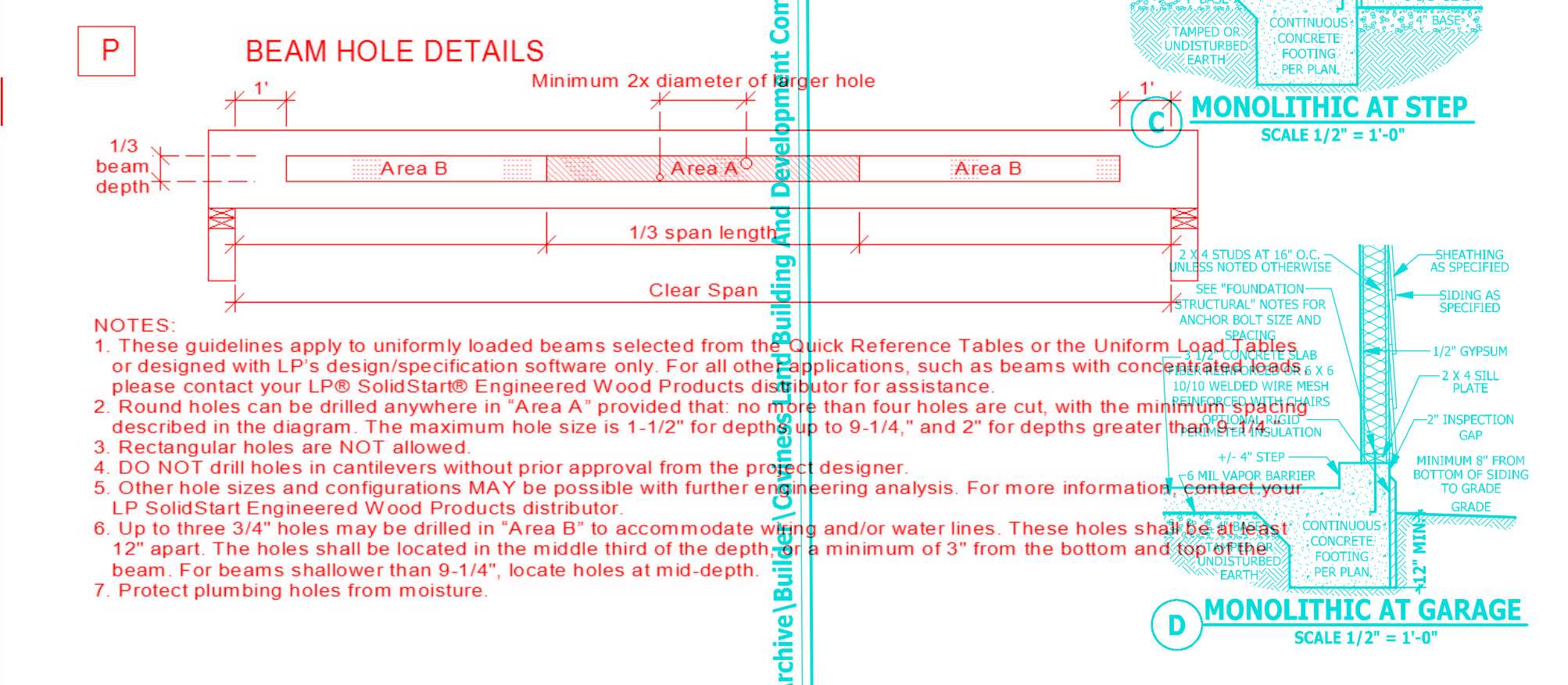
- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-joists should be handled vertically and not flatwise.
- Store in wrapped and strapped bundles, stacked no more than 10' high. Support and separate bundles with 2 x 4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically.
- Product must not be stored in contact with the ground, or have prolonged exposure to the weather.
- Use forklifts and cranes carefully to avoid damaging product.
- Do not use visually damaged product. Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.



- TO USE:**
- Select the required series and depth.
 - Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
 - Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
 - Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
 - The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of bearing to the center of a circular hole.
 - Double check the distance to the other support, using the appropriate support condition.

Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
		Hole Diameter						Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	5'-11"
	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	-	1'-8"	2'-10"	3'-11"	5'-11"	6'-9"	8'-0"
	22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	-	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-
	26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	-	6'-8"	7'-10"	8'-10"	10'-1"	11'-4"	-
16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"
	30'	5'-9"	7'-0"	8'-4"	9'-9"	9'-9"	11'-3"	12'-10"	9'-0"	10'-0"	11'-0"	12'-0"	14'-8"

- DESIGN ASSUMPTIONS:**
- The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" oc).
 - Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
 - Clear Span has not been verified for these joists and is shown for informational purposes only! Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
 - The maximum hole depth for circular holes is the I-joist Depth less 4", except the maximum hole depth is 6" for 9-1/2" LPI joists, and 8" for 11-7/8" LPI joists.
 - Holes cannot be located in the span where designated "N", without further analysis by a design professional.



Important Notes:

WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.

These instructions are offered as a guide to good practice in the handling, storage and installation of LP SolidStart® I-joists, LP SolidStart LVL, & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional procedures may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the entire building.

Handling & Storage: Keep LP SolidStart I-joists, LP SolidStart LVL & LP SolidStart LSL beams dry.

Foundation Structural: Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during unloading, cutting, erection, etc. I-joists should be stored vertically and not flatwise.

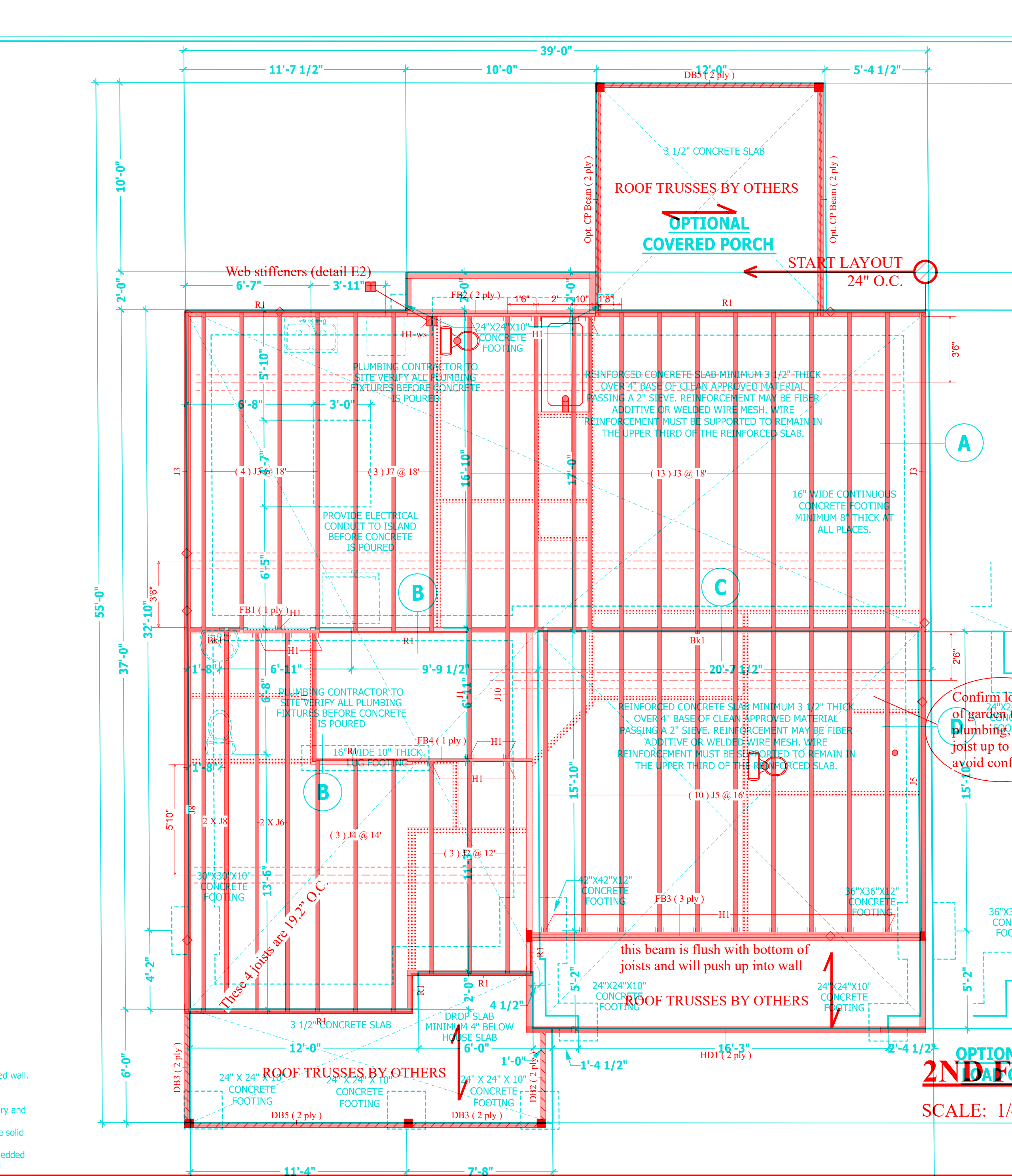
Product: Do not store in contact with masonry or concrete. Do not use as a permanent formwork. Do not use as a permanent formwork for concrete. Do not use as a permanent formwork for concrete. Do not use as a permanent formwork for concrete.

Web Stiffeners, Rim & Blocking, Nailing

WEB STIFFENER REQUIREMENTS

Series	Depth	Minimum Thickness	Maximum Height	Nail Size*	Nail Qty
LPI 18	9-1/2"	23/32"	6-7/8"	8d (2-1/2")	3
LPI 20Plus	11-7/8"	23/32"	8-3/4"	8d (2-1/2")	3
LPI 23Plus	14"	23/32"	10-7/8"	8d (2-1/2")	3
LPI 36	17-7/8"	23/32"	12-7/8"	8d (2-1/2")	4
	18"	23/32"	10-7/8"	8d (2-1/2")	5
LPI 42Plus	19-1/2"	5/8"	16-3/4"	10d (3")	3
	14"	5/8"	10-7/8"	10d (3")	3
LPI 54	17-7/8"	5/8"	16-3/4"	10d (3")	4
	14"	5/8"	10-7/8"	10d (3")	5

*Nails may be Box or Common.



2nd Floor Joist (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J8	LPI 20Plus	2.5	14			3	22-0-0
J6	LPI 20Plus	2.5	14			2	20-0-0
J7	LPI 20Plus	2.5	14			3	18-0-0
J3	LPI 20Plus	2.5	14			19	18-0-0
J5	LPI 20Plus	2.5	14			11	16-0-0
J4	LPI 20Plus	2.5	14			3	14-0-0
J2	LPI 20Plus	2.5	14			3	12-0-0
J10	LPI 20Plus	2.5	14			1	8-0-0
J1	LPI 20Plus	2.5	14			2	8-0-0

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB2	LP-LVL 2900Fb-2.0E	1.75	14	1	2	2	10-0-0
FB4	LP-LVL 2900Fb-2.0E	1.75	14			1	8-0-0
FB1	LP-LVL 2900Fb-2.0E	1.75	14			1	4-0-0
FB3	LP-LVL 2900Fb-2.0E	1.75	20	1	3	3	22-0-0

LVL/LSL (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
Opt. CP Beam	LP-LVL 2900Fb-2.0E	1.75	9.25	2	2	4	14-0-0
HD1	LP-LVL 2900Fb-2.0E	1.75	11.875	1	2	2	22-0-0

Beam By Others (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB5	(2x10)			2	2	4	12-0-0
DB3	(2x10)			2	2	4	8-0-0
DB2	(2x10)			1	2	2	6-0-0

Rim Board

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 14		14			6	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
Bk1	LPI 20 Plus	2.5	14			Varies	23-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
H1	25	IUS.5614 (1/4")			12 10d	

MONOLITHIC SLAB PLAN CL-2338

HAYNES Caviness Land

HOME PLANS, INC.

FOUNDATION STRUCTURAL

2ND FLOOR FRAMING

SCALE: 1/4" = 1'

SQUARE FOOTAGE

Category	Area
HEATED FLOOR	1078.50 FT ²
SECOND FLOOR	1300.50 FT ²
TOTAL	2379.00 FT ²
UNHEATED PORCH	636.50 FT ²
SCREENED FRONT PORCH	125.50 FT ²
TOTAL	3141.00 FT ²

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Project
25977

Created
April 07, 2021

Layout Name
202103-25977

Description
Caviness Land
CL2338 - 4 Alexander

Designer
Kyle Miltzer

2nd Floor

Design Method ASD (USA)

Building Code IRC 2018

Floor

Loads

- Live 40
- Dead 10

Decking OSB

Decking 23/32 APA Rated Sturd-I-Floor

Fastener Nailed & Glued

Legend

- ws Web Stiffener
- ws In Hanger Label Denotes Web Stiffener
- Load from Above
- ▬ 3.5" Ext Wall
- ▬ 3.5" Int Wall
- ▬ 5.5" Non-Brg Wall
- ▬ 5.5" Non-Brg Wall
- ▬ Wall Opening
- ▬ LP APA Rated OSB 1.125 X 14
- ▬ LPI 20Plus 14
- ▬ LP-LVL 2900Fb-2.0E 1.75 X 9.25 (Dropped)
- ▬ LP-LVL 2900Fb-2.0E 1.75 X 11.875 (Dropped)
- ▬ LP-LVL 2900Fb-2.0E 1.75 X 14
- ▬ LP-LVL 2900Fb-2.0E 1.75 X 20
- ▬ 1.5 X 9.25 (Dropped)

CSD DRAW DESIGN BUILD

isPlan