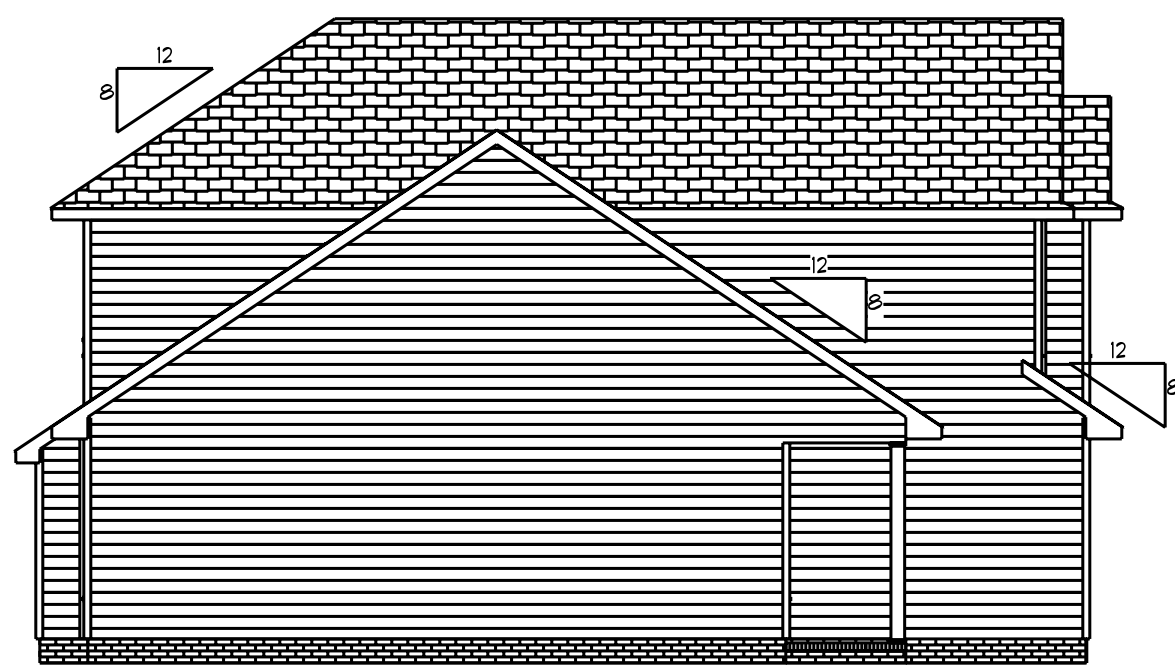




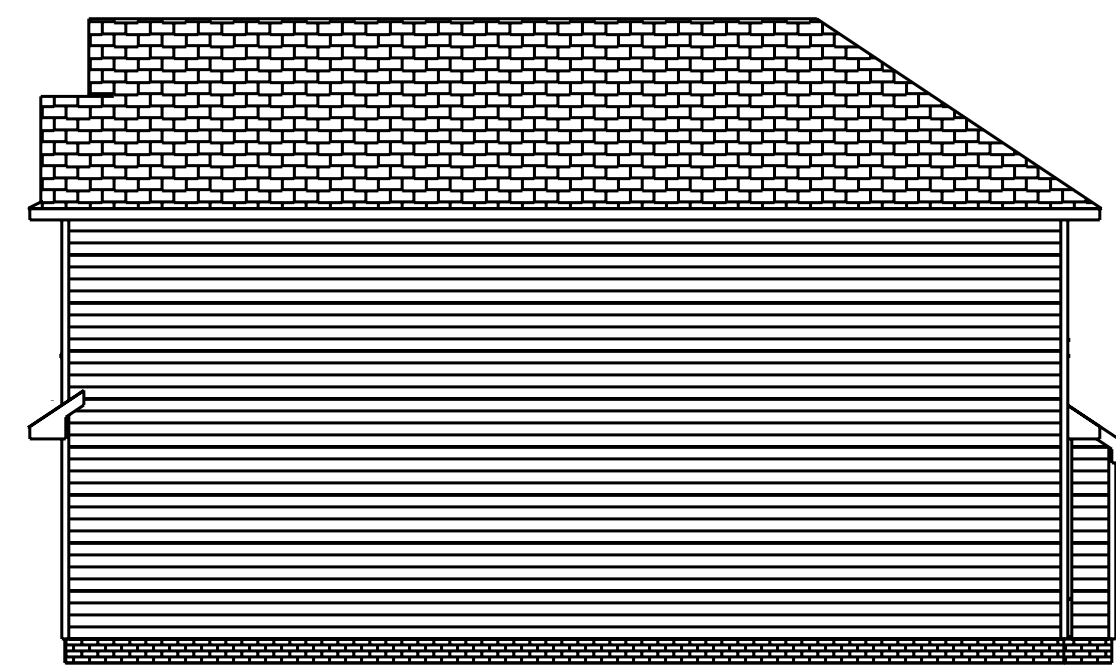
Front Elevation
Scale: 1/4" = 1'0"



Rear Elevation
Scale: 1/8" = 1'0"



Left Elevation
Scale: 1/8" = 1'0"

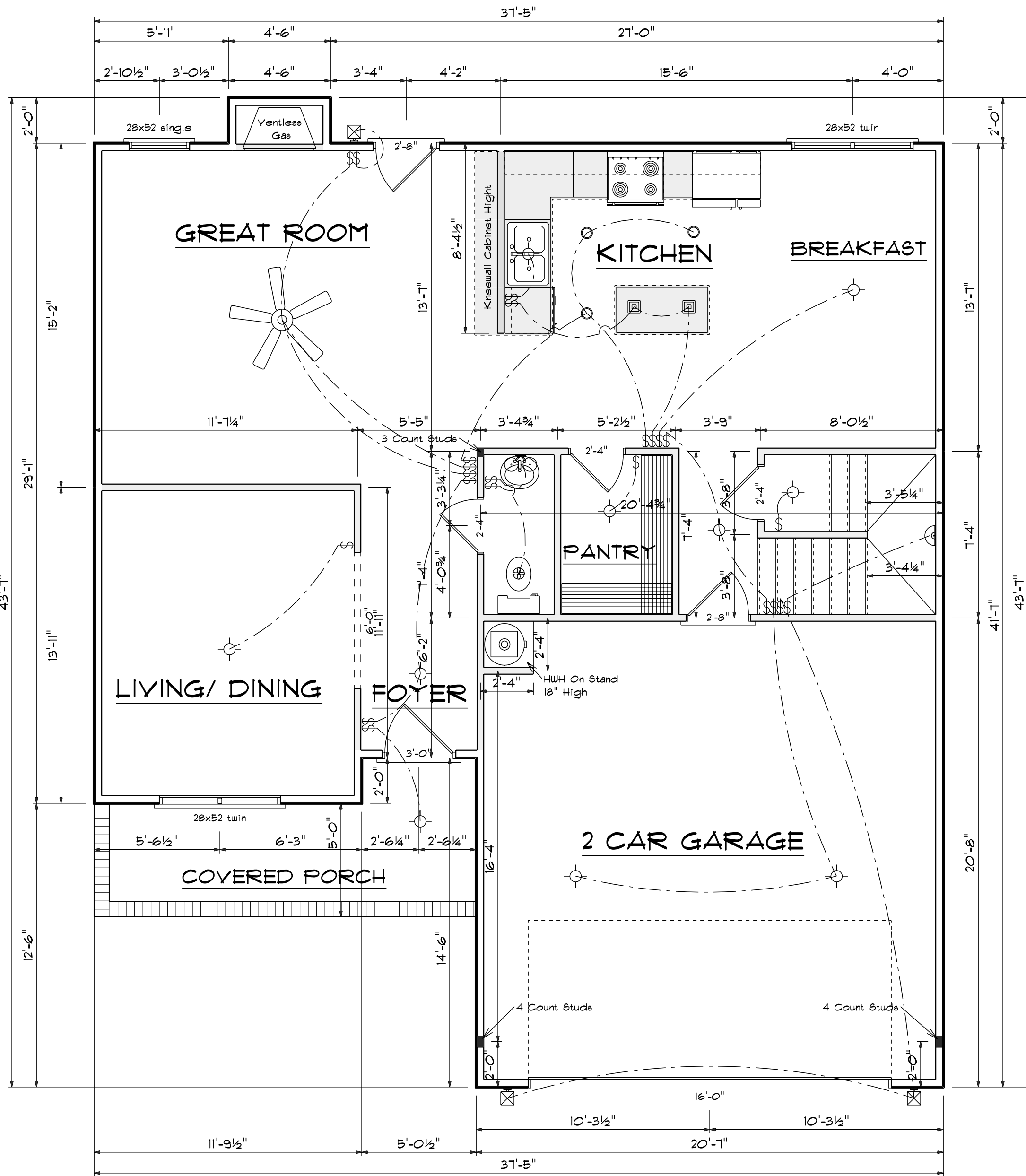


Right Elevation
Scale: 1/8" = 1'0"

DATE: 8/9/2024
REVISED
DRAWING#

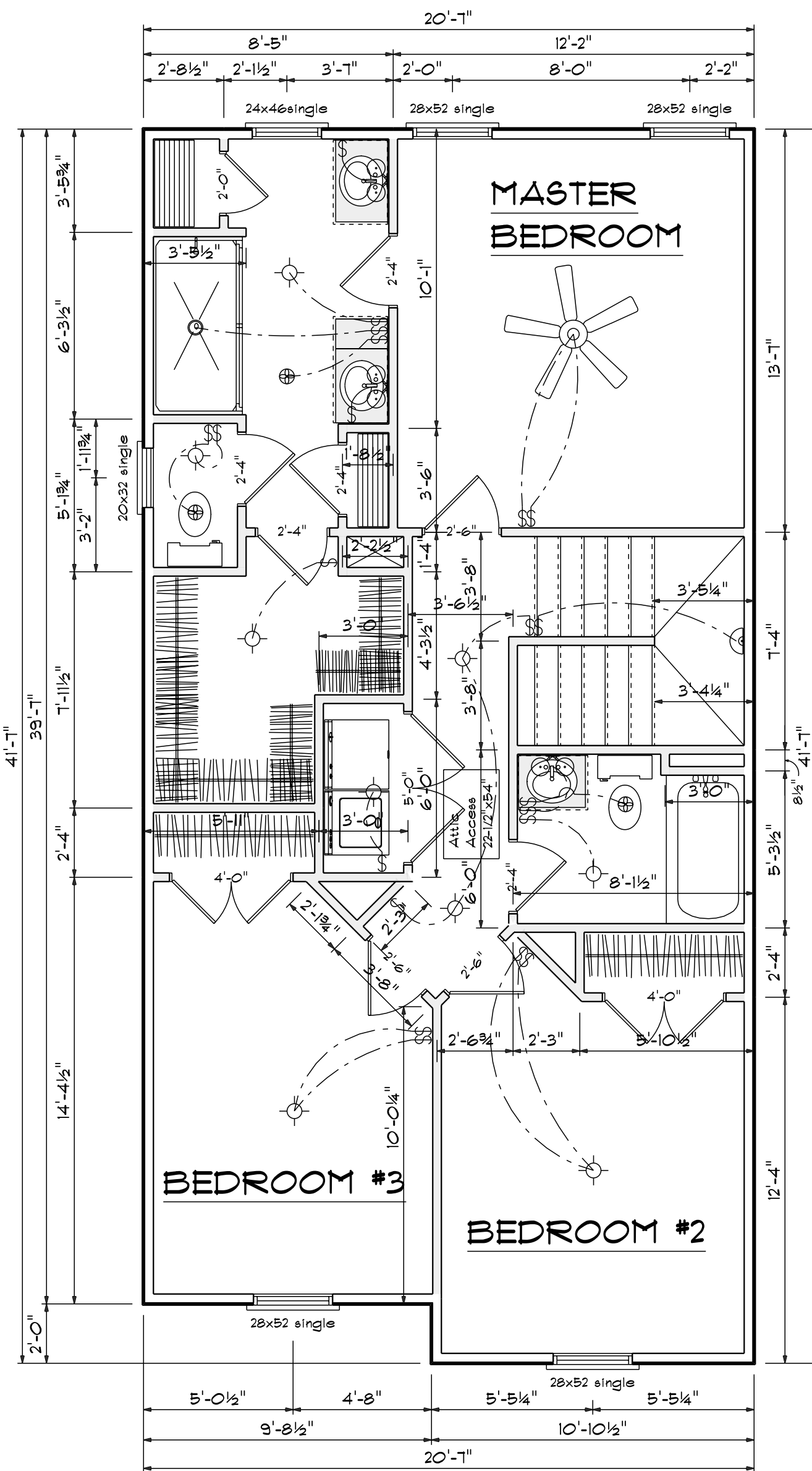
SCALE: 1/4"
DRAWN BY
APPROVED

Plan #17



First Floor Plan

Scale: 1/4" = 1'-0"



Second Floor Plan

Scale: 1/4" = 1'-0"

Areas

First Floor	921
Second Floor	788
=====	
Total Heated	1709
Garage	422
Front Porch	94

DATE: 8/9/2024

REVISED

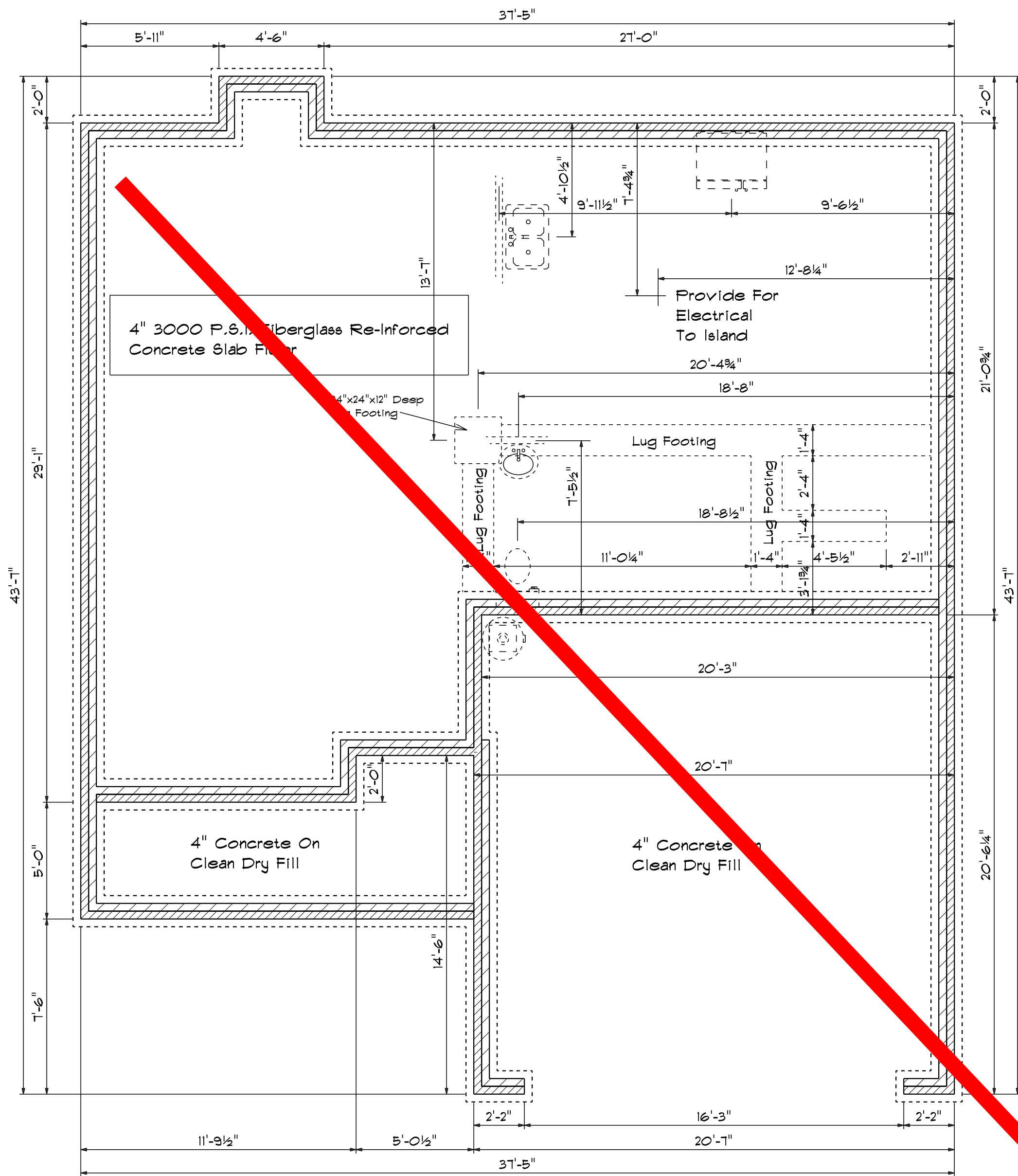
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SCALE: 1/4"

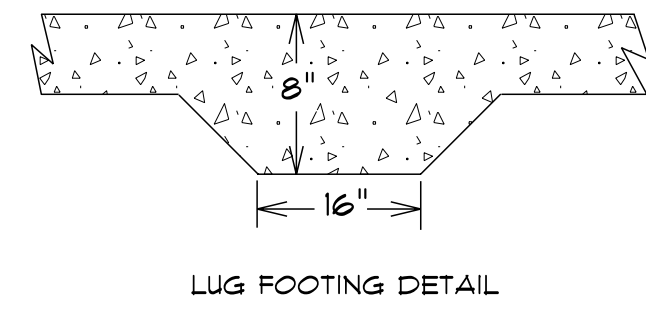
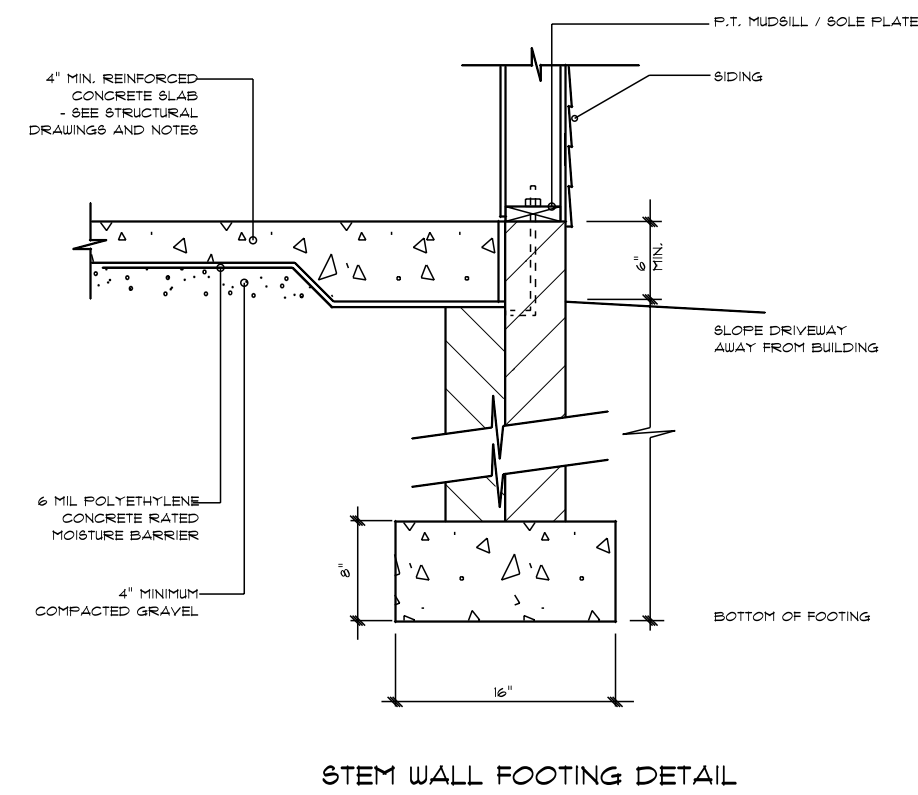
DRAWN BY

APPROVED

Plan #17



Foundation Plan
Scale: 1/4" = 1'-0"



FIRST FLOOR OPENING SCHEDULE				
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT
2-4 Door Unit	2'-4"	L	NO	1
2-4 Door Unit	2'-4"	R	NO	2
2-8 Door Unit	2'-8"	L	NO	1
28x52 single	2'-8" x 5'-2"	N	NA	1
28x52 twin	5'-4" x 5'-2"	NN	NA	2
32x80 FRENCH A 1	2'-8"	L	NO	1
36x80 COLONIAL A 1	3'-0"	R	NO	1
192X84 - 8 PANEL GARAGE DR	16'-0"	U	NO	1

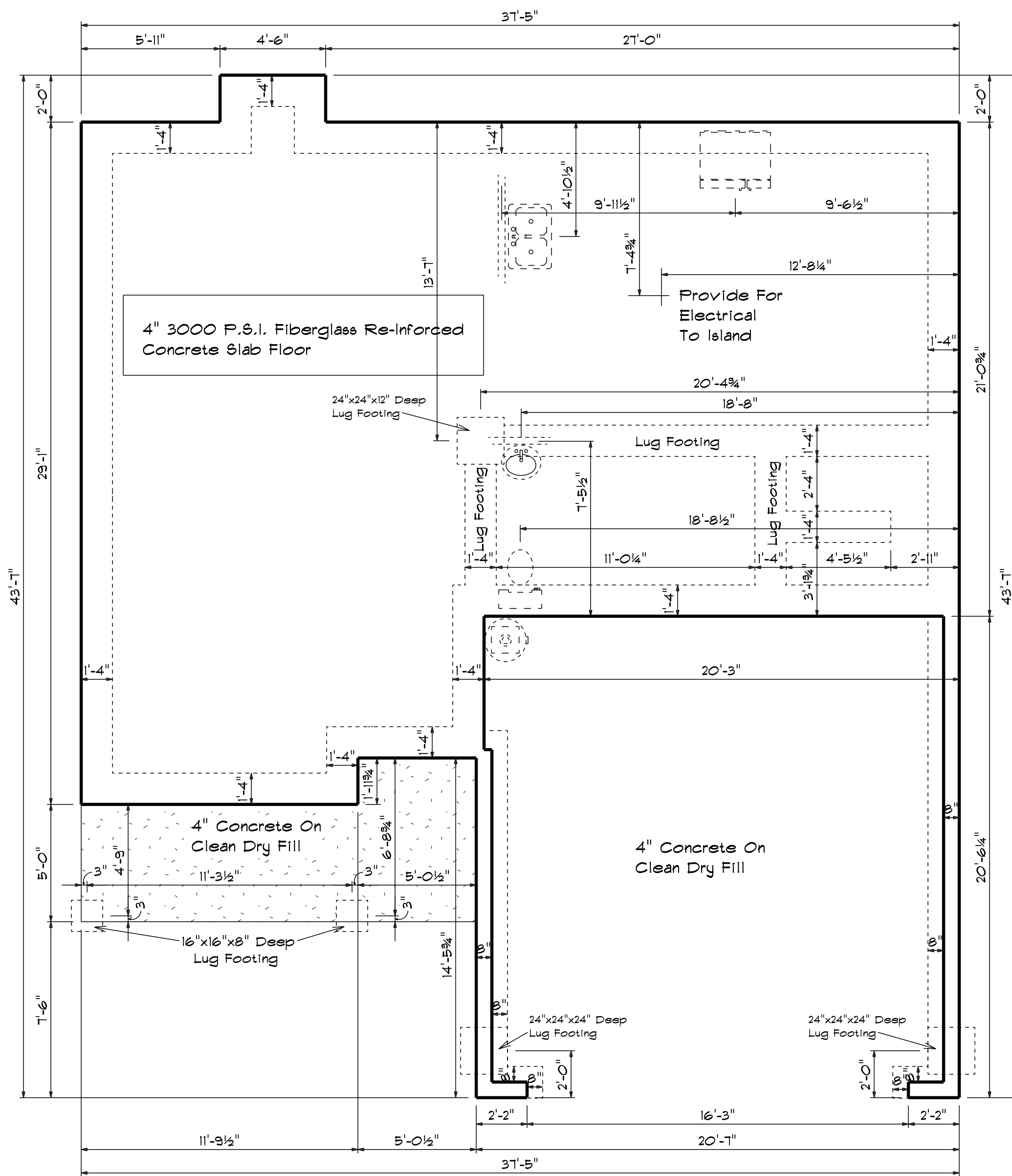
SECOND FLOOR OPENING SCHEDULE				
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT
2-0 Door Unit	2'-0"	L	NO	1
2-4 Door Unit	2'-4"	L	NO	1
2-4 Door Unit	2'-4"	R	NO	4
2-6 Door Unit	2'-6"	L	NO	1
2-6 Door Unit	2'-6"	R	NO	2
4-0 Doublehung Door Unit	4'-0"	LR	NO	2
5-0 Doublehung Door Unit	5'-0"	LR	NO	1
20x32 single	2'-0" x 3'-2"	N	NA	1
24x46single	2'-4" x 4'-6"	N	NA	1
28x52 single	2'-8" x 5'-2"	N	NA	4

See Next Page

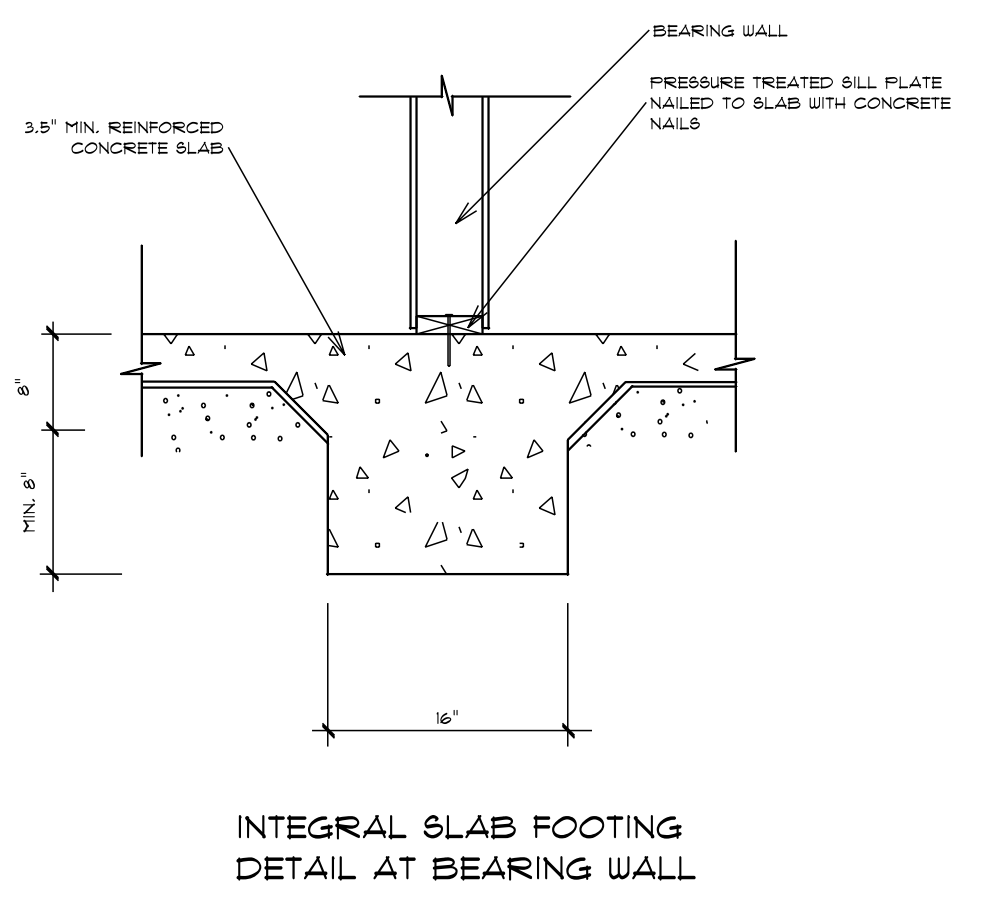
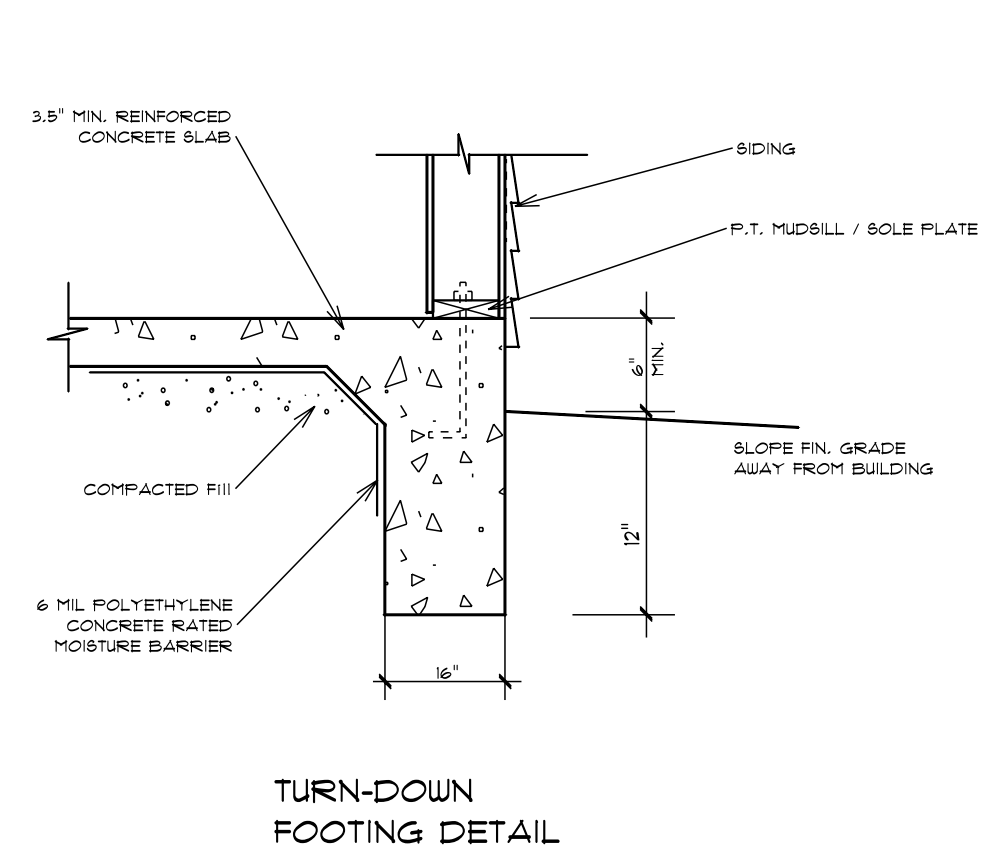
DATE: 8/9/2024
REVISED
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #17



Foundation Plan
Scale: 1/4" = 1'-0"



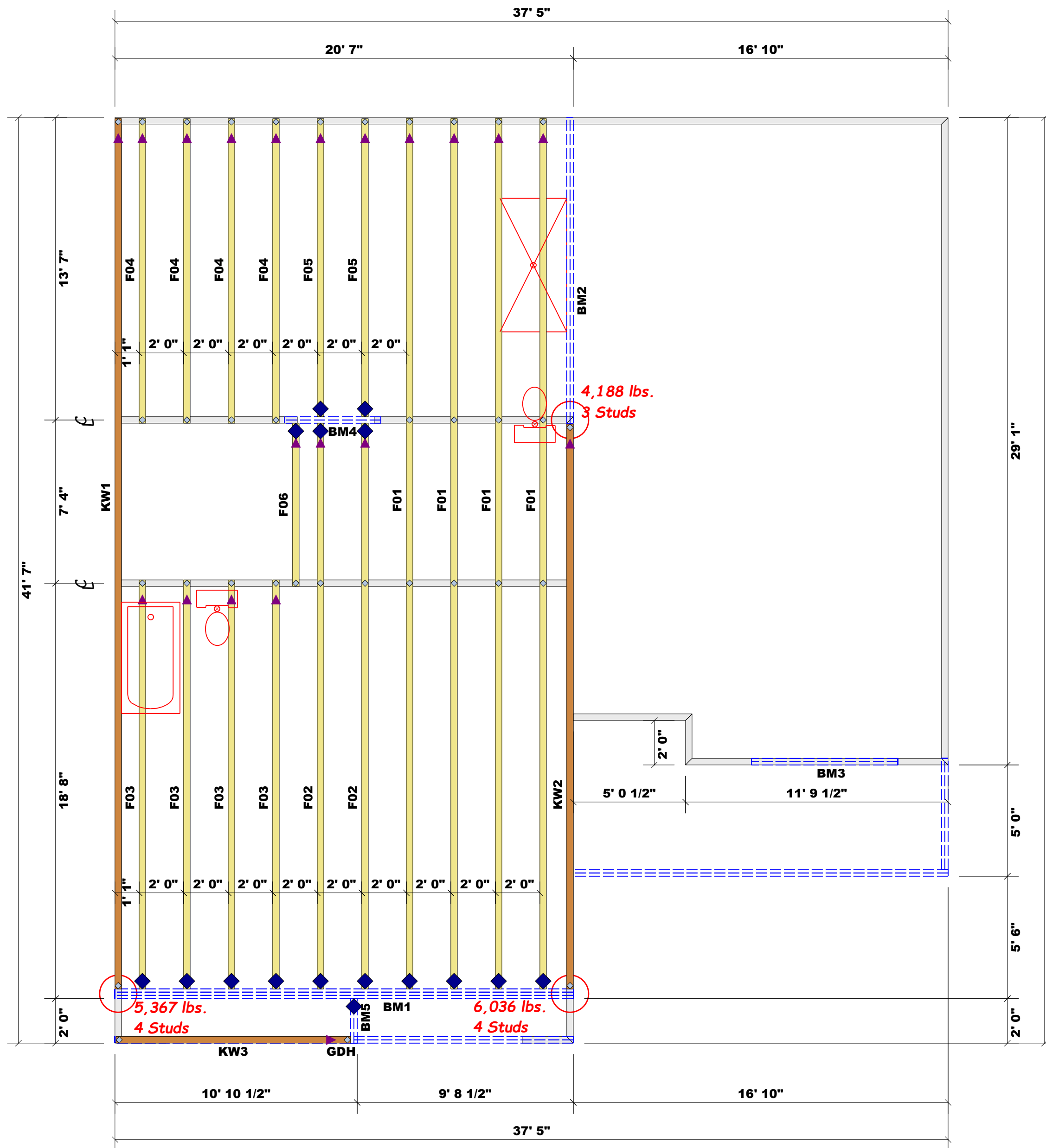
FIRST FLOOR OPENING SCHEDULE					
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT	
2-4 Door Unit	2'-4"	L	NO	1	
2-4 Door Unit	2'-4"	R	NO	2	
2-8 Door Unit	2'-8"	L	NO	1	
28x52 single	2'-8" x 5'-2"	N	NA	1	
28x52 twin	5'-4" x 5'-2"	NN	NA	2	
32X80 FRENCH A 1	2'-8"	L	NO	1	
36X80 COLONIAL A 1	3'-0"	R	NO	1	
192X84 - 8 PANEL GARAGE DR	16'-0"	U	NO	1	

SECOND FLOOR OPENING SCHEDULE					
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT	
2-0 Door Unit	2'-0"	L	NO	1	
2-4 Door Unit	2'-4"	L	NO	1	
2-4 Door Unit	2'-4"	R	NO	4	
2-6 Door Unit	2'-6"	L	NO	1	
2-6 Door Unit	2'-6"	R	NO	2	
4-0 Doublehung Door Unit	4'-0"	LR	NO	2	
5-0 Doublehung Door Unit	5'-0"	LR	NO	1	
20x32 single	2'-0" x 3'-2"	N	NA	1	
24x46single	2'-4" x 4'-6"	N	NA	1	
28x52 single	2'-8" x 5'-2"	N	NA	4	

DATE: 8/9/2024
REVISED
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #17



▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

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

○ -- Denotes Reaction Greater than 3,000 lbs.

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

HANGER LEGEND

◆ = USP JUS414 / Single 4x Hanger

Beam Legend

PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	21' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2	14' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM4	5' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM5	2' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM1	21' 0"	1-3/4"x 18" LVL Kerto-S	3	3	FF

LOAD CHART FOR JACK STUDS

(BASED ON TABLES B502.5(1) & (2))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/BOARDS

END REACTION (UP TO) (DOWN) (DOWN)	END REACTION (UP TO) (DOWN) (DOWN)	END REACTION (UP TO) (DOWN) (DOWN)
1700	2550	3400
3400	5100	6800
5100	7650	10200
6800	10200	13600
8500	12750	17000
10200	15300	
11900		
13600		
15300		

BUILDER	Wellco Contractors	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 9 Overhills Creek	ADDRESS	98 Onslow Ct.
PLAN	Plan 17	MODEL	Floor
SEAL DATE	Seal Date	DATE REV.	05/02/24
QUOTE #	Quote #	DRAWN BY	Curtis Quick
JOB #	J0524-2606	SALES REP.	Lenny Norris

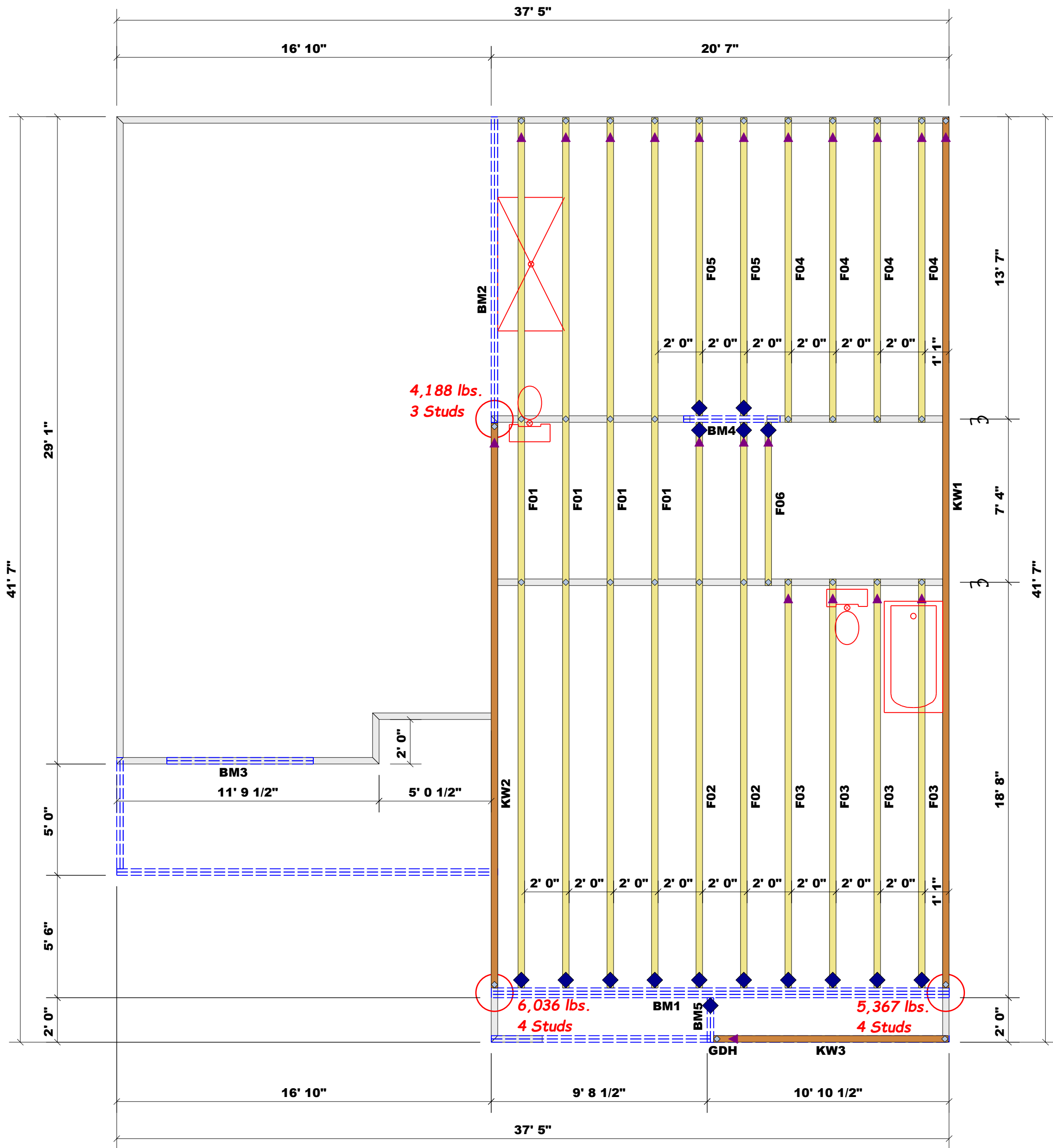
THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer 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: Curtis Quick
Curtis Quick



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



▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

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

○ -- Denotes Reaction Greater than 3,000 lbs.

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

HANGER LEGEND

◆ = USP JUS414 / Single 4x Hanger

Beam Legend

PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	21' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2	14' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM4	5' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM5	2' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM1	21' 0"	1-3/4"x 18" LVL Kerto-S	3	3	FF

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS

END REACTION (UP TO) 2500 LBS. @ 2' DIA. HEADER	END REACTION (UP TO) 5100 LBS. @ 2' DIA. HEADER	END REACTION (UP TO) 8500 LBS. @ 2' DIA. HEADER
1700	2550	3400
3400	5100	6800
5100	7650	10200
6800	10200	13600
8500	12750	17000
10200	15300	
11900		
13600		
15300		

BUILDER	Wellco Contractors	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 9 Overhills Creek	ADDRESS	98 Onslow Ct.
PLAN	Plan 17	MODEL	Floor
SEAL DATE	Seal Date	DATE REV.	05/02/24
QUOTE #	Quote #	DRAWN BY	Curtis Quick
JOB #	J0524-2606	SALES REP.	Lenny Norris

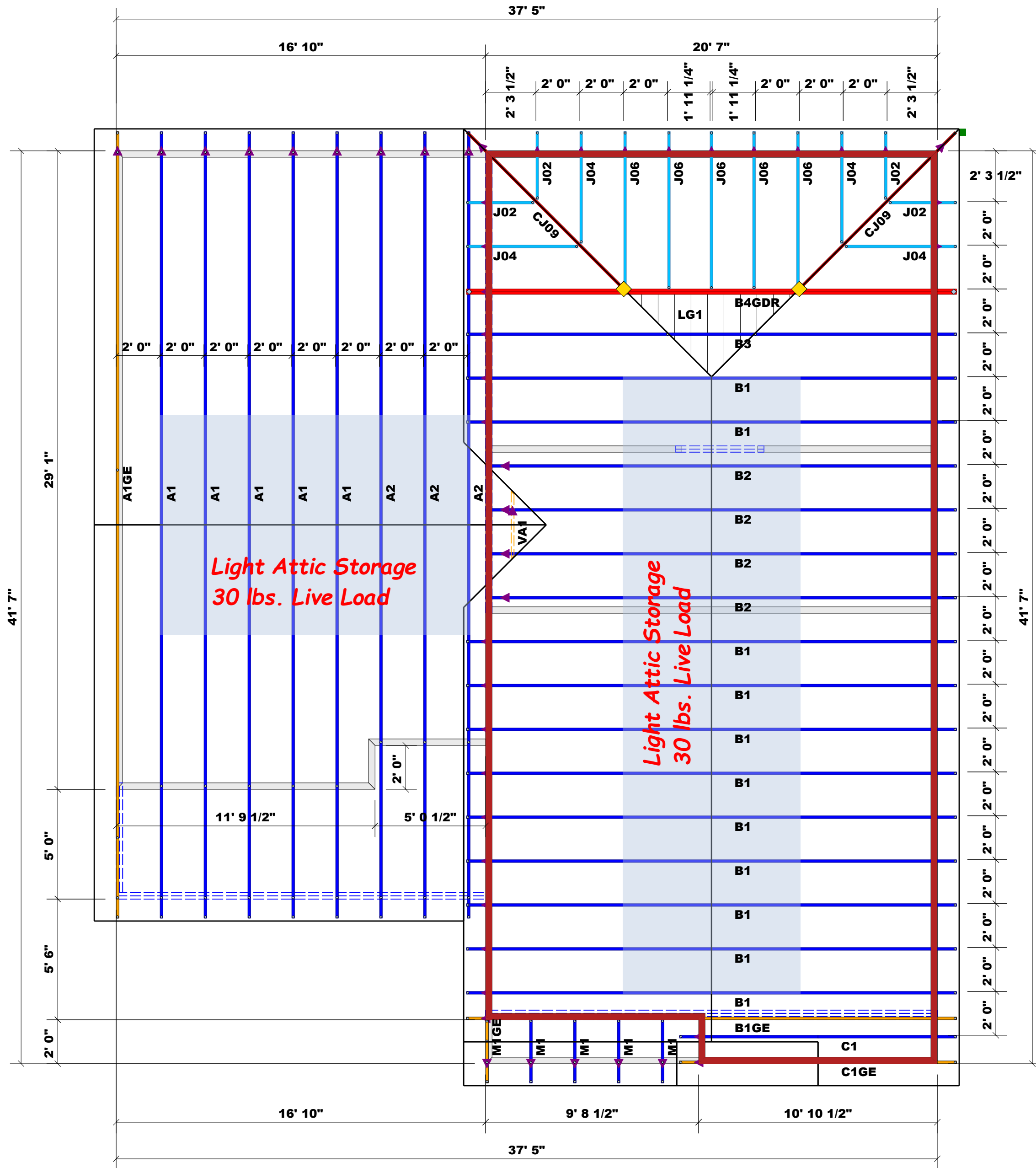
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Signature: Curtis Quick
Curtis Quick

ROOF & FLOOR TRUSSES & BEAMS

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



▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

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

○ -- Denotes Reaction Greater than 3,000 lbs.

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

Hatch Legend
2nd Floor Bearing Walls @ 8' 1-1/2"

HANGER LEGEND
= USP HJC26 / Hip Hanger

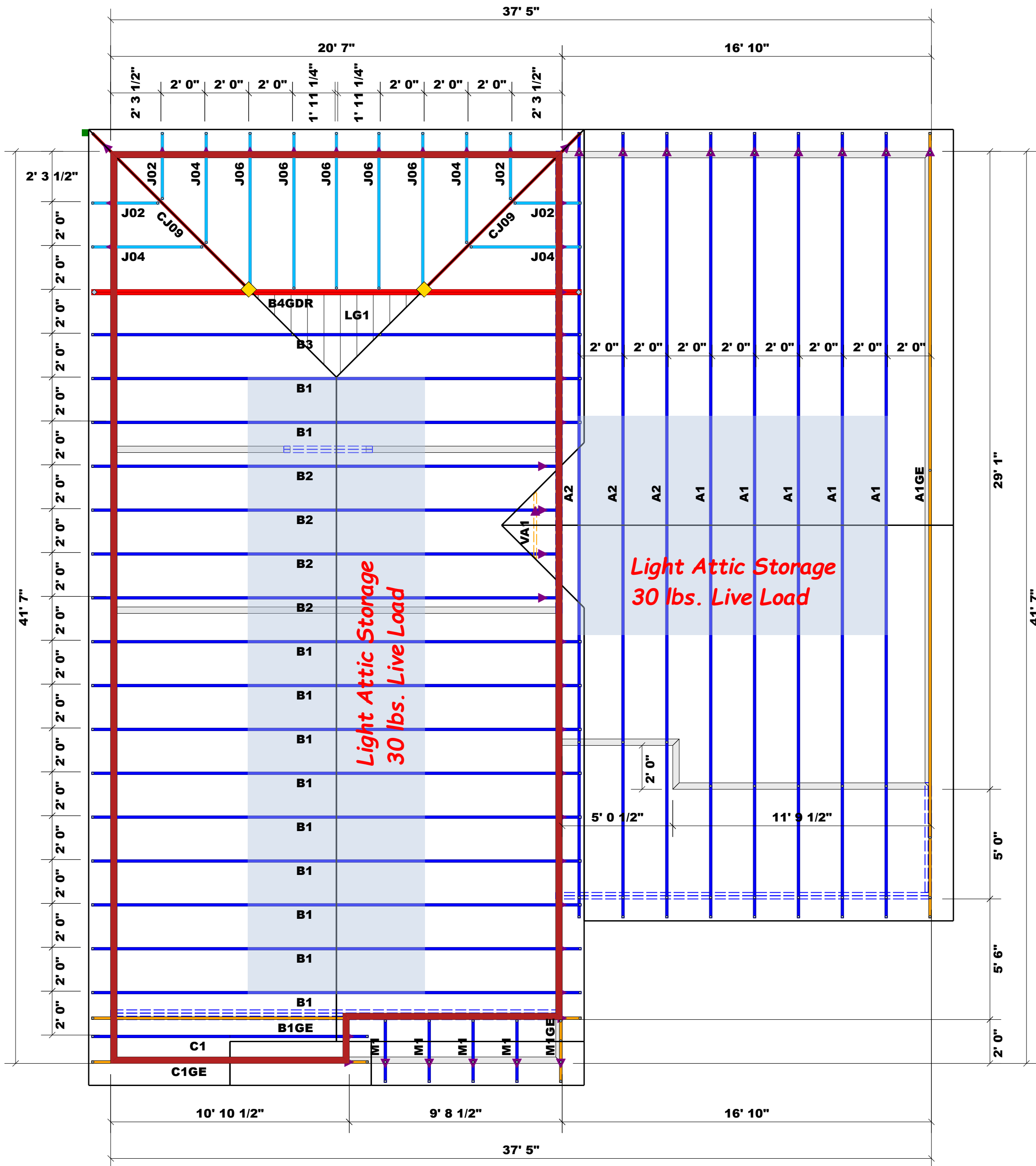
LOAD CHART FOR JACK STUDS (BASED ON TABLES B502.5(1) & (2)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADQUADERS			
END REACTION (UP TO) HEADQUADERS	END REACTION (UP TO) HEADQUADERS	END REACTION (UP TO) HEADQUADERS	END REACTION (UP TO) HEADQUADERS
1700	2550	3400	
3400	5100	6800	2
5100	7650	10200	3
6800	10200	13600	4
8500	12750	17000	5
10200	15300		6
11900			7
13600			8
15300			9

BUILDER	Wellco Contractors	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 9 Overhills Creek	ADDRESS	98 Onslow Ct.
PLAN	Plan 17	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	05/02/24
QUOTE #	Quote #	DRAWN BY	Curtis Quick
JOB #	J0524-2605	SALES REP.	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	
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Signature	Curtis Quick
	Curtis Quick

Signature: Curtis Quick
Curtis Quick

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



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
 ○ -- Denotes Reaction Greater than 3,000 lbs.

Hatch Legend
 2nd Floor Bearing Walls @ 8' 1-1/2"

HANGER LEGEND
 = USP HJC26 / Hip Hanger

▲ = Denotes Left End of Truss (Reference Engineered Truss Drawing)
 Do Not Erect Trusses Backwards

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

LOAD CHART FOR JACK STUDS
 (BASED ON TABLES B502.5(1) & (2))
 NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS

END REACTION (UP TO) (DOWN) (UP TO)	END REACTION (UP TO) (DOWN) (UP TO)	END REACTION (UP TO) (DOWN) (UP TO)
1700	2550	3400
3400	5100	6800
5100	7650	10200
6800	10200	13600
8500	12750	17000
10200	15300	
11900		
13600		
15300		

BUILDER	Wellco Contractors	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 9 Overhills Creek	ADDRESS	98 Onslow Ct.
PLAN	Plan 17	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	05/02/24
QUOTE #	Quote #	DRAWN BY	Curtis Quick
JOB #	J0524-2605	SALES REP.	Lenny Norris

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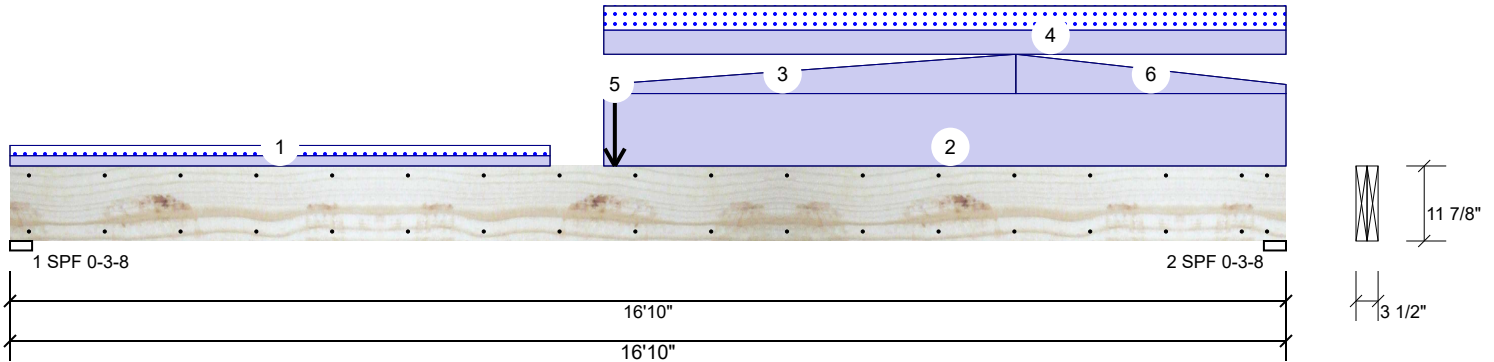
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 Fax: (910) 864-4444

GDH 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:	IRC 2018
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	0	764	190	0	0
2	Vertical	0	1549	291	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	18%	764 / 190	955	L	D+S
2 - SPF	3.500"	Vert	35%	1549 / 291	1840	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5342 ft-lb	9'6 7/8"	17919 ft-lb	0.298 (30%)	D	Uniform
Unbraced	6333 ft-lb	9'6 13/16"	6340 ft-lb	0.999 (100%)	D+S	L
Shear	1311 lb	15'6 5/8"	7980 lb	0.164 (16%)	D	Uniform
LL Defl inch	0.050 (L/3912)	8'8 15/16"	0.409 (L/480)	0.123 (12%)	S	L
TL Defl inch	0.314 (L/626)	8'9 15/16"	0.546 (L/360)	0.575 (58%)	D+S	L

Design Notes

- 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.
- Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 15'8 7/16" o.c.
- Bottom must be laterally braced at end bearings.
- 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 7-1-8		Top	17 PLF	0 PLF	17 PLF	0 PLF	0 PLF	M1
2	Part. Uniform	7-10-0 to 16-10-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Tapered Start	7-10-0		Top	15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Gable
	End	13-3-4			65 PLF	0 PLF	0 PLF	0 PLF	0 PLF	

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

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

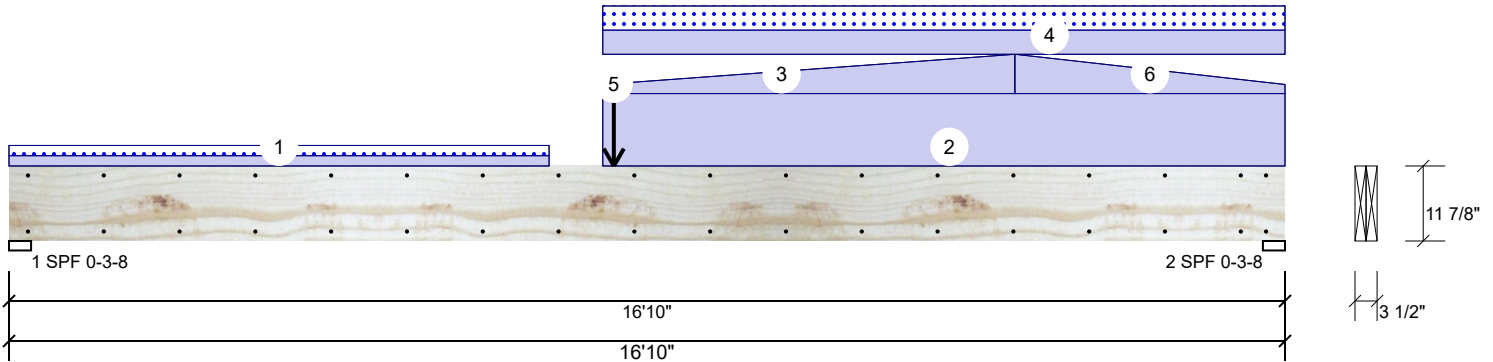
This design is valid until 6/28/2026

Manufacturer Info

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

GDH Kerto-S LVL 1.750" X 11.875" 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	Part. Uniform	7-10-0 to 16-10-0		Top	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	Overhang
5	Point	7-11-12		Top	237 lb	0 lb	0 lb	0 lb	0 lb	BM6
	Bearing Length	0-3-8								
6	Tapered Start	13-3-4		Top	65 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Gable
	End	16-10-0			15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	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

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

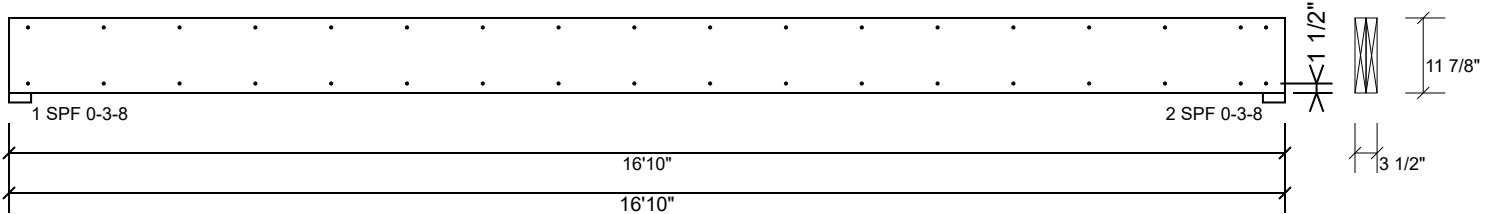
This design is valid until 6/28/2026

Manufacturer Info

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

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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

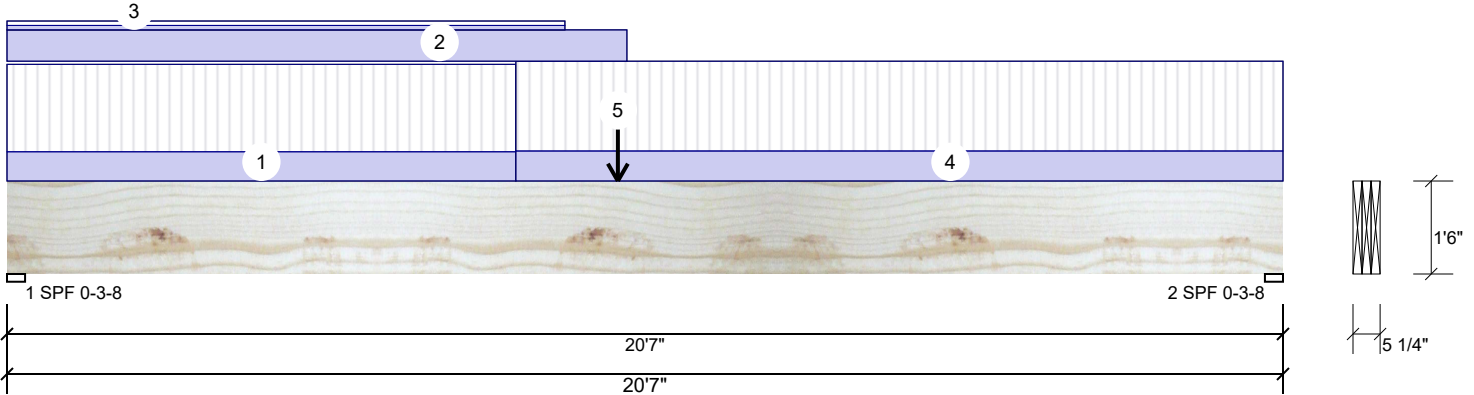
This design is valid until 6/28/2026

Manufacturer Info

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

BM1 Kerto-S LVL 1.750" X 18.000" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2018
Load Sharing:	Yes
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3481	2555	120	0	0
2	Vertical	3526	1841	33	0	0

Bearings

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	77%	2555 / 3481	6036	L	D+L
2 - SPF	3.500"	Vert	69%	1841 / 3526	5367	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	28788 ft-lb	9'10 1/4"	67051 ft-lb	0.429 (43%)	D+L	L
Unbraced	28788 ft-lb	9'10 1/4"	28935 ft-lb	0.995 (99%)	D+L	L
Shear	4983 lb	1'9 1/2"	20160 lb	0.247 (25%)	D+L	L
LL Defl inch	0.269 (L/900)	10'3 5/8"	0.504 (L/480)	0.534 (53%)	L	L
TL Defl inch	0.443 (L/546)	10'1 3/4"	1.007 (L/240)	0.439 (44%)	D+L	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 6'10 5/8" 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 8-2-8		Top	112 PLF	335 PLF	0 PLF	0 PLF	0 PLF	F01
2	Part. Uniform	0-0-0 to 10-0-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Part. Uniform	0-0-0 to 9-0-0		Top	17 PLF	0 PLF	17 PLF	0 PLF	0 PLF	M1
4	Part. Uniform	8-2-8 to 20-7-0		Top	115 PLF	344 PLF	0 PLF	0 PLF	0 PLF	F02
5	Point	9-10-4		Top	268 lb	0 lb	0 lb	0 lb	0 lb	BM5
	Bearing Length	0-3-8								
	Self Weight				21 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

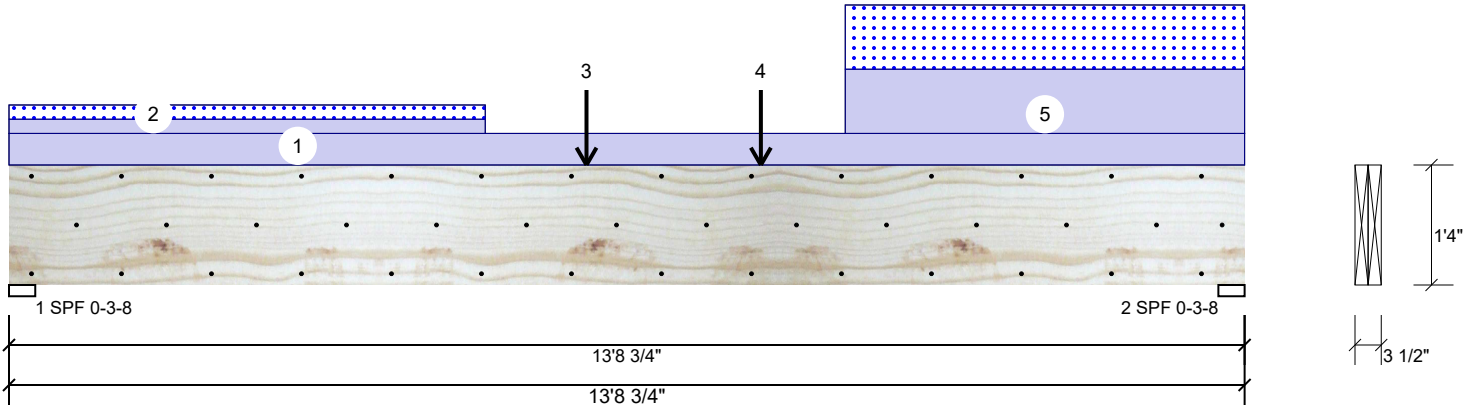
This design is valid until 6/28/2026

Manufacturer Info

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

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2018
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	0	1929	1020	0	0
2	Vertical	0	2549	1640	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	57%	1929 / 1020	2949	L	D+S
2 - SPF	3.500"	Vert	80%	2549 / 1640	4188	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13402 ft-lb	6'5"	39750 ft-lb	0.337 (34%)	D+S	L
Unbraced	13402 ft-lb	6'5"	13432 ft-lb	0.998 (100%)	D+S	L
Shear	3197 lb	12'1 1/4"	13739 lb	0.233 (23%)	D+S	L
LL Defl inch	0.076 (L/2091)	6'11 9/16"	0.332 (L/480)	0.230 (23%)	S	L
TL Defl inch	0.197 (L/808)	6'11 5/16"	0.443 (L/360)	0.446 (45%)	D+S	L

Design Notes

- 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.
- Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 8'10 9/16" o.c.
- Bottom must be laterally braced at end bearings.
- 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	Part. Uniform	0-0-0 to 5-3-8		Top	54 PLF	0 PLF	54 PLF	0 PLF	0 PLF	J04
3	Point	6-5-0		Top	839 lb	0 lb	839 lb	0 lb	0 lb	B4GDR
	Bearing Length	0-3-8								

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

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

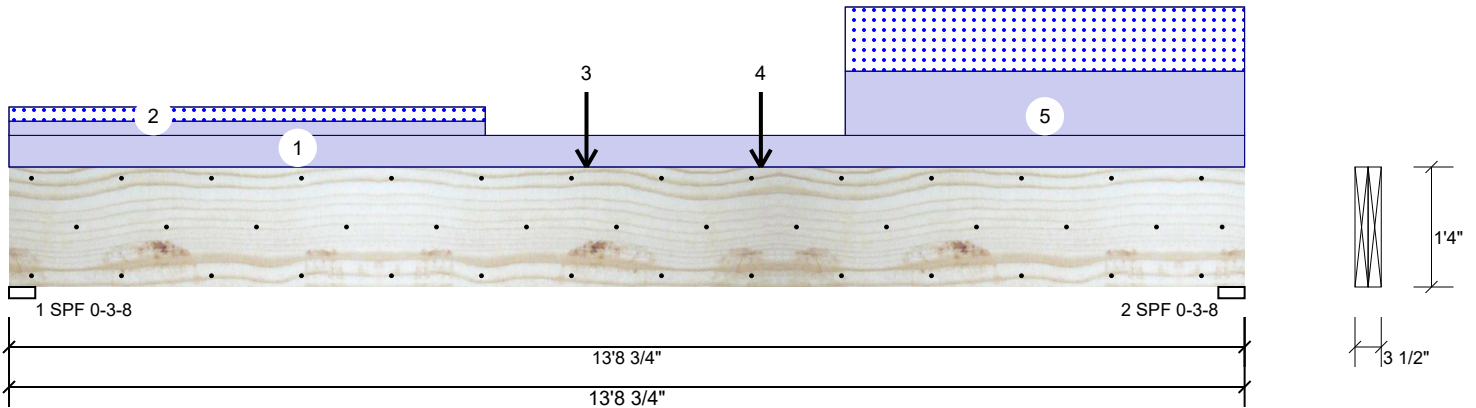
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Manufacturer Info

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

BM2 Kerto-S LVL 1.750" X 16.000" 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	8-4-4		Top	452 lb	0 lb	452 lb	0 lb	0 lb	B3
	Bearing Length	0-3-8								
5	Part. Uniform	9-3-8 to 13-8-12		Top	244 PLF	0 PLF	244 PLF	0 PLF	0 PLF	B2
	Self Weight				12 PLF					

Notes

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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

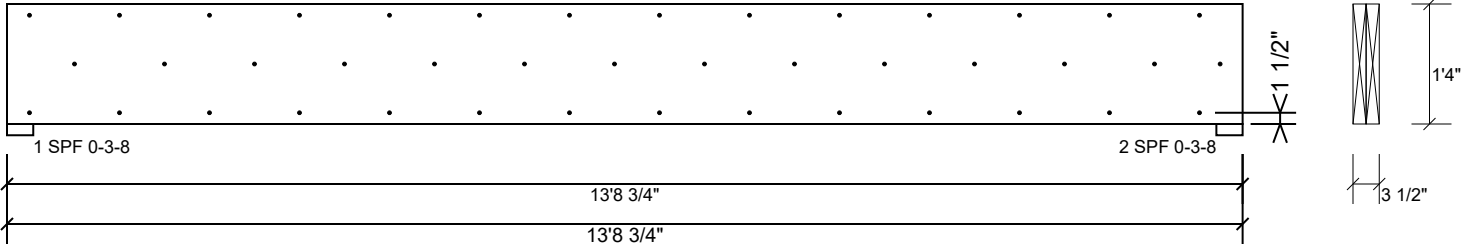
This design is valid until 6/28/2026

Manufacturer Info

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

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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

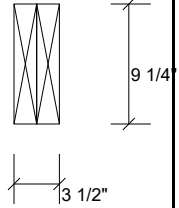
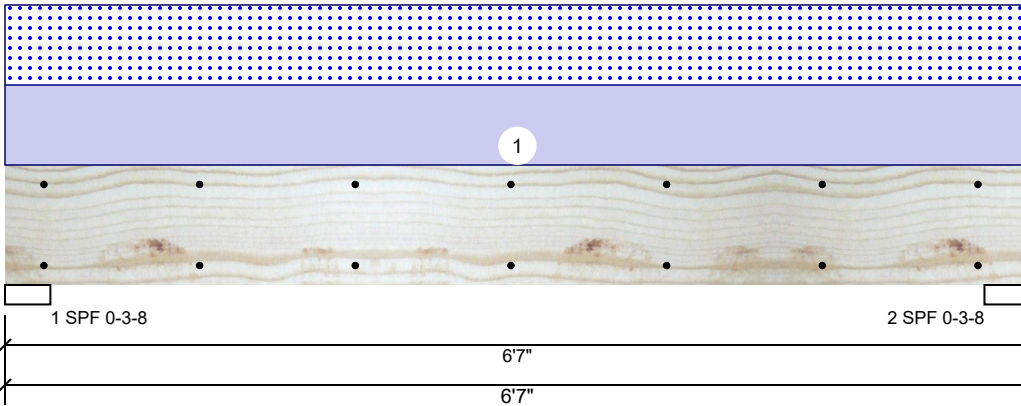
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info

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

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2018
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1449	1425	0	0
2	Vertical	0	1449	1425	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	55%	1449 / 1425	2874	L	D+S
2 - SPF	3.500"	Vert	55%	1449 / 1425	2874	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4095 ft-lb	3'3 1/2"	14423 ft-lb	0.284 (28%)	D+S	L
Unbraced	4095 ft-lb	3'3 1/2"	10451 ft-lb	0.392 (39%)	D+S	L
Shear	1952 lb	1'3/4"	7943 lb	0.246 (25%)	D+S	L
LL Defl inch	0.037 (L/1991)	3'3 1/2"	0.153 (L/480)	0.241 (24%)	S	L
TL Defl inch	0.074 (L/987)	3'3 1/2"	0.204 (L/360)	0.365 (36%)	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	433 PLF	0 PLF	433 PLF	0 PLF	0 PLF	A1
	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

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

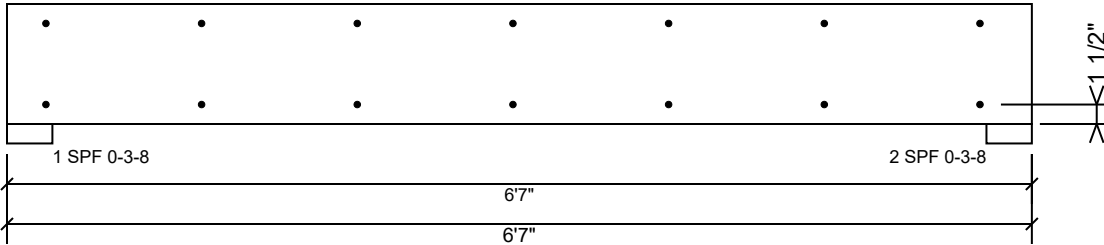
This design is valid until 6/28/2026

Manufacturer Info

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

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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

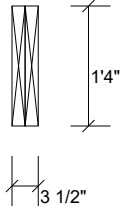
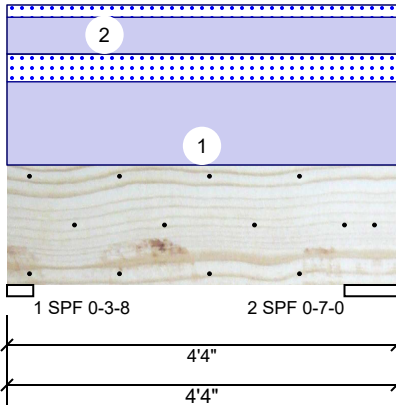
This design is valid until 6/28/2026

Manufacturer Info

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

BM4 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2018
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	817	265	0	0
2	Vertical	0	935	303	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	21%	817 / 265	1082	L	D+S
2 - SPF	7.000"	Vert	12%	935 / 303	1238	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	869 ft-lb	2' 1/4"	39750 ft-lb	0.022 (2%)	D+S	L
Unbraced	869 ft-lb	2' 1/4"	29979 ft-lb	0.029 (3%)	D+S	L
Shear	229 lb	2'5"	13739 lb	0.017 (2%)	D+S	L
LL Defl inch	0.001 (L/66978)	2' 5/16"	0.090 (L/480)	0.007 (1%)	S	L
TL Defl inch	0.003 (L/16387)	2' 5/16"	0.120 (L/360)	0.022 (2%)	D+S	L

Design Notes

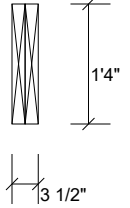
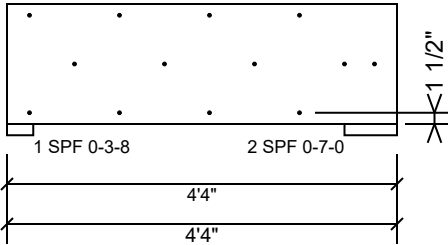
- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page 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	272 PLF	0 PLF	91 PLF	0 PLF	0 PLF	F05
2	Uniform			Top	120 PLF	0 PLF	40 PLF	0 PLF	0 PLF	F02
	Self Weight				12 PLF					

<p>Notes</p> <p>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.</p> <p>Lumber</p> <ol style="list-style-type: none"> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals 	<p>Handling & Installation</p> <ol style="list-style-type: none"> 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 	<p>6. For flat roofs provide proper drainage to prevent ponding</p>	<p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us</p>
			<p>This design is valid until 6/28/2026</p>

BM4 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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

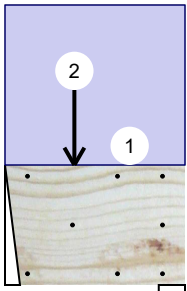
This design is valid until 6/28/2026

Manufacturer Info

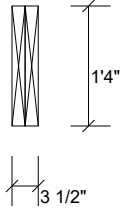
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
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BM5 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



1 Hanger (IUS3.56/16 (Min)) 0-2-0
 2 SPF 0-3-8
 2'
 2'



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2018
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	196	72	0	0
2	Vertical	0	189	48	0	0

Bearings

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	5%	196 / 72	268	L	D+S
2 - SPF	3.500"	Vert	5%	189 / 48	237	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	143 ft-lb	9 1/4"	39750 ft-lb	0.004 (0%)	D+S	L
Unbraced	143 ft-lb	9 1/4"	39187 ft-lb	0.004 (0%)	D+S	L
Shear	52 lb	1'6"	10752 lb	0.005 (0%)	D	Uniform
LL Defl inch	0.000 (L/187413)	9 1/4"	0.042 (L/480)	0.003 (0%)	S	L
TL Defl inch	0.000 (L/63485)	9 1/4"	0.056 (L/360)	0.006 (1%)	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 3 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 Fill all hanger nailing holes.
- 5 Left Header: SPF, Thickness: 3 1/2"
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at end bearings.
- 9 Bottom must be laterally braced at end bearings.
- 10 Lateral slenderness ratio based on single ply width.

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

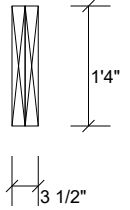
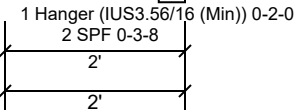
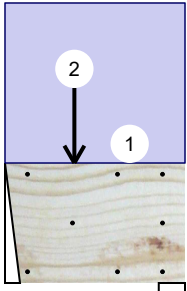
This design is valid until 6/28/2026

Manufacturer Info

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

BM5 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



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	0-9-4		Top	120 lb	0 lb	120 lb	0 lb	0 lb	C1
	Bearing Length	0-3-8								
	Self Weight				12 PLF					

Notes

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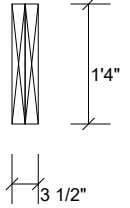
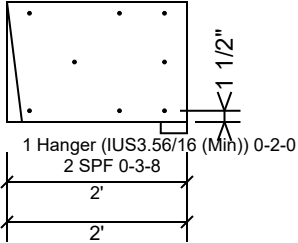
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Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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