

DATE:

JAN. 25, 2021

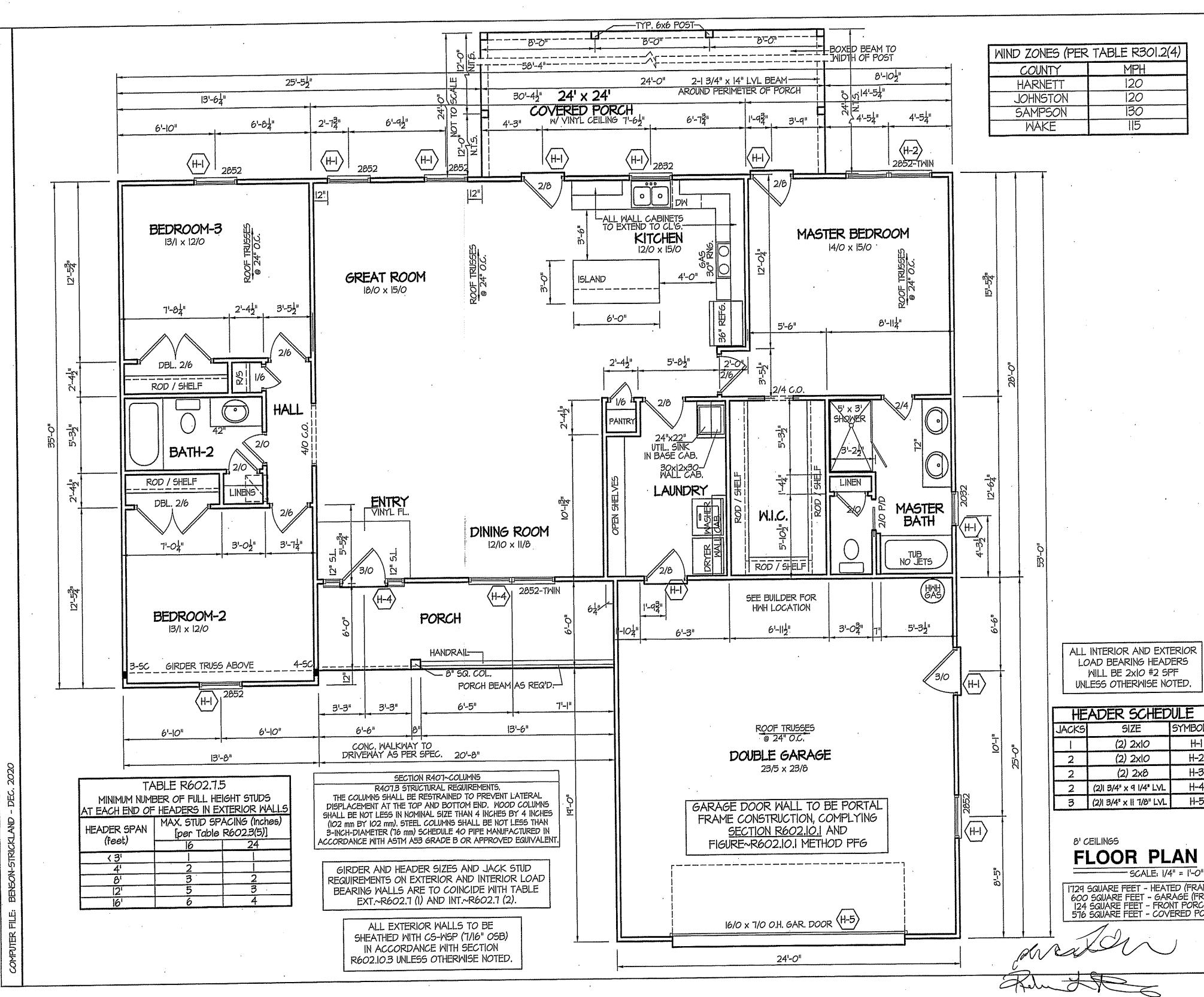
892-5680 HOMES HOMES EDOM FAMILY HC P.O. BOX 608 DUNN, N.C. - 28335) 892-1231 FAX: (910) 8

FREEDOM FREEDOM P.0 (910) 892 © 2020, ö



FOR HOMES IVE PLAN **(1)** EXCLUSI FREEDOM

SHEET NO.



DATE:

JAN. 25, 2021

HOMES 892 – 28335 AX: (910) FAMILY H FAMILY FAX: FREEDOM © 2020, (910)

FOR HOMES SIVE PLAN
M FAMILY (1) EXCLUS FREEDON 0

FLOOR PLAN

SYMBOL

H-1

H-2

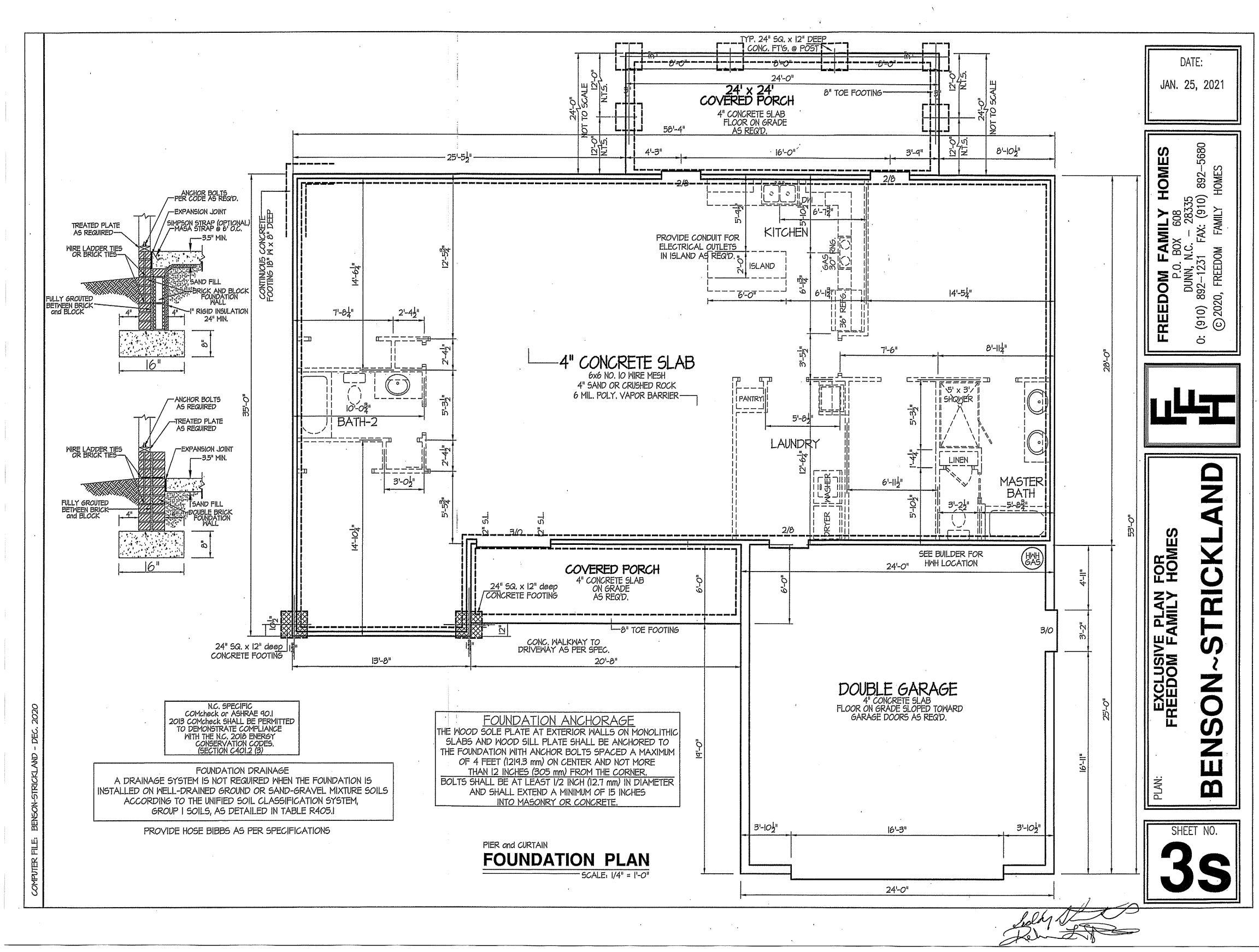
H-3

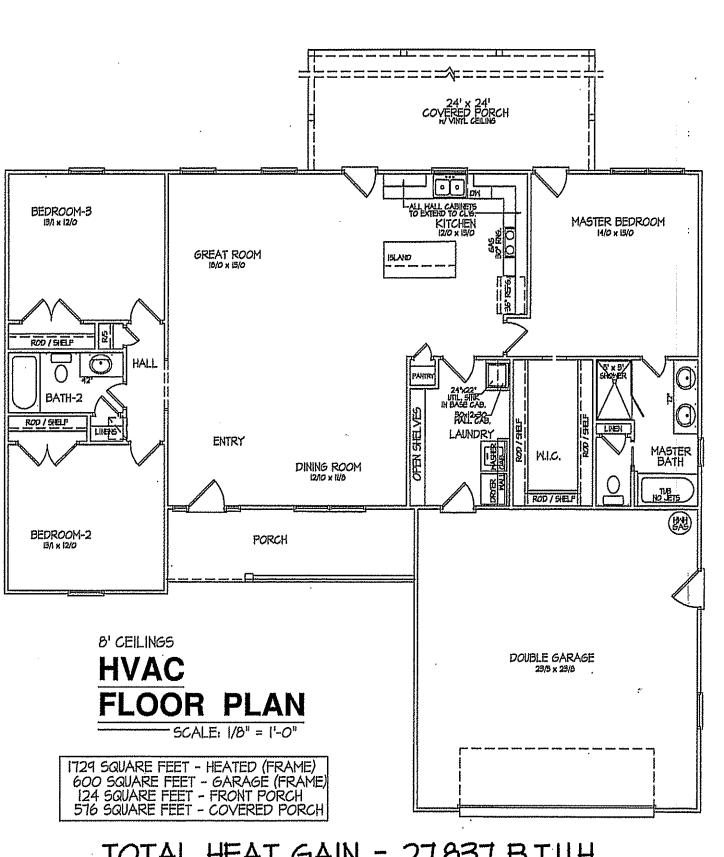
H-4

H-5

1729 SQUARE FEET - HEATED (FRAME) 600 SQUARE FEET - GARAGE (FRAME) 124 SQUARE FEET - FRONT PORCH 576 SQUARE FEET - COVERED PORCH

SHEET NO.

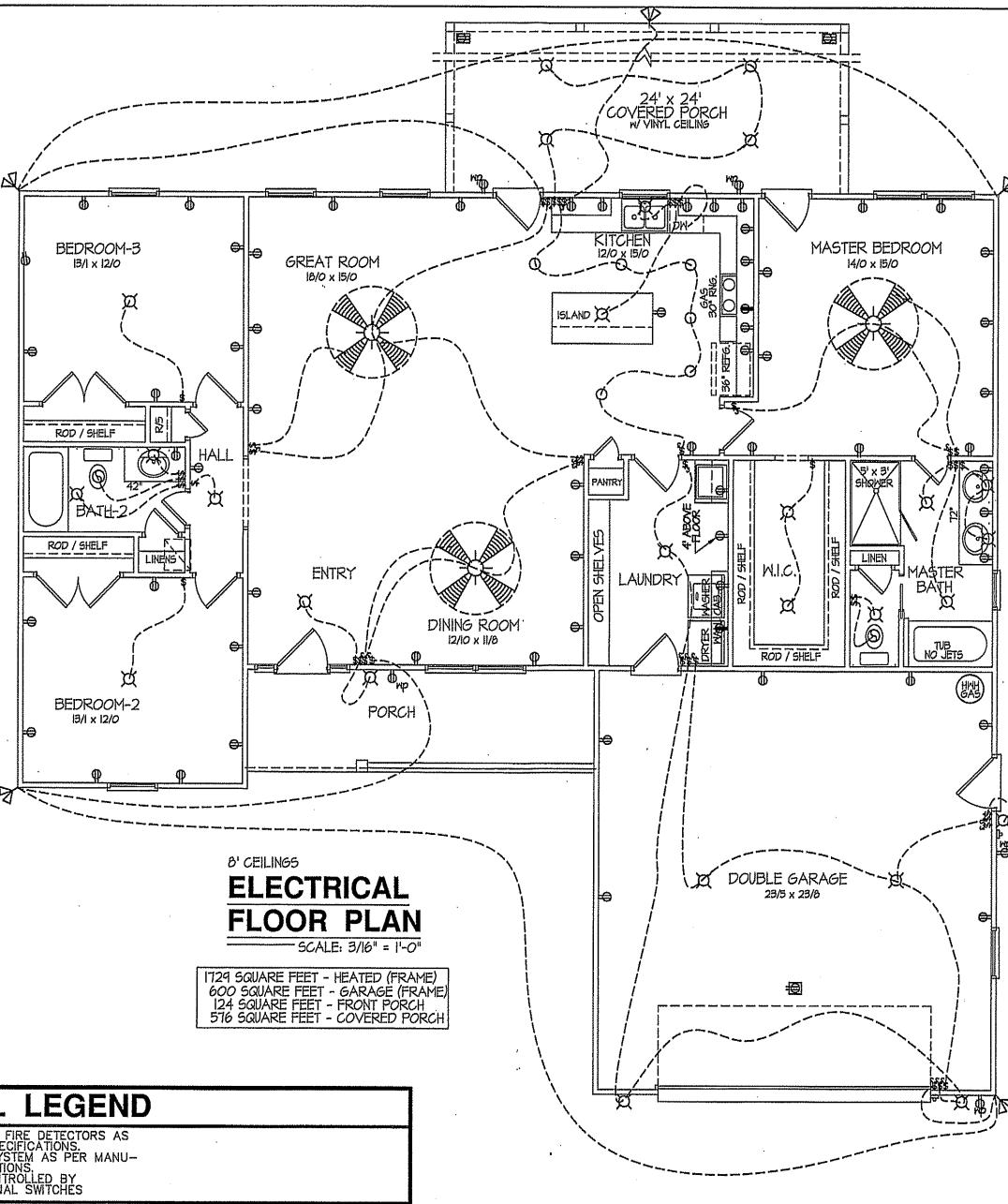




TOTAL HEAT GAIN = 27,837 B.T.U.H. TOTAL HEAT LOSS = 44,003 B.T.U.H.

NOTE:

HVAC CONTRACTOR TO VERIFY and PROVIDE OWNERS and BUILDER UNIT INFORMATION, BTUH REQUIREMENTS, and DUCT LAYOUTS BEFORE CONSTRUCTION BEGINS.



ELECTRICAL LEGEND PROVIDE BURGLAR/SMOKE, AND FIRE DETECTORS AS
PER MANUFACTURER'S SPECIFICATIONS.
PROVIDE CENTRAL VACCUUM SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS.
ALL FANS ARE TO BE CONTROLLED BY
VAR/SPEED AND DIRECTIONAL SWITCHES → SURF. MOUNTED LIGHT → TYPICAL SWITCH ⇒ TYPICAL WALL RECEP. ⇒ TOP 1/2 HOT W/SWITCH RECESSED LIGHT ₩ 3-WAY SWITCH O EYEBALL LIGHT **國 CEILING RECEPTACLE** - FAN/LIGHT COMB. FLOOR RECEPTACLE ₩ KEYLESS ENTRY PN. ** WATERPROOF RECEP. 巴 ELEC. PANEL BOX — FLUORESCENT TUBE -⊕5 GROUND FAULT ☐ FLUOR, LIGHT FIXTURE ■ T.V. CABLE RECEP. OP DISPOSAL UNIT □ TELEPHONE JACK © EXHAUST FAN CL'G. FAN © COMPUTER JACK ⇒§ 220 VOLT RECEPTACLE FLOOD LIGHT

DATE: JAN. 25, 2021

>) 892—5680 HOMES

P.O. BOX 608
DUNN, N.C. — 28335
(910) 892—1231 FAX: (910) 892—
© 2020, FREEDOM FAMILY HOMES

EXCLUSIVE PLAN FOR FREEDOM FAMILY HOMES

SON STRICKLAN

JAN:

SHEET NO.

m

All In

DIMENSIONS IN [] ARE MM

	SPECIFICATIONS											
Model	Helght		Front Vidth		Back Width		Depth		Glass Size	BTU Input		
6000-TR	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing	Size	BIO INPUT		
Inches	38	38-1/2	41	42	28-1/2	42	21-1/2	55				

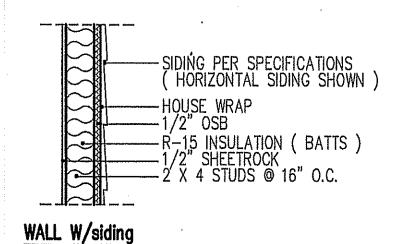
Reference dimensions only. We recommend measuring individual units at installation.

2020

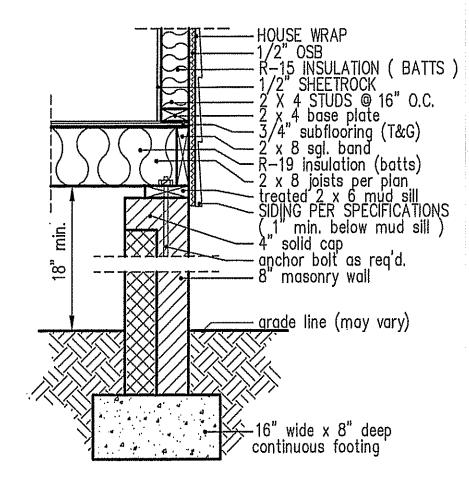
DEC.

BENSON-STRICKLAND

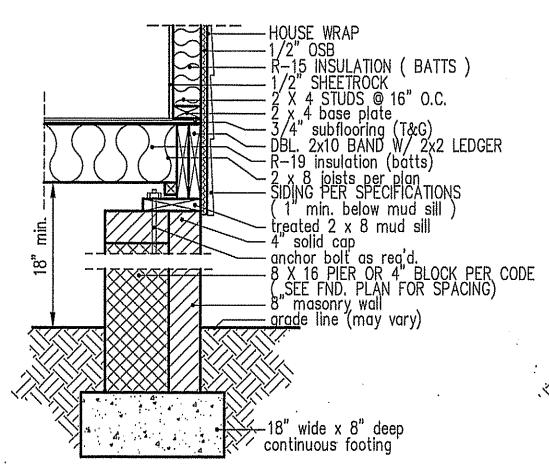
COMPUTER FILE:



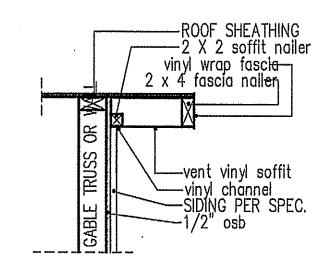
intermediate details



8" BOX SILL FOUNDATION WALL



PIER and CURTAIN FOUNDATION WALL

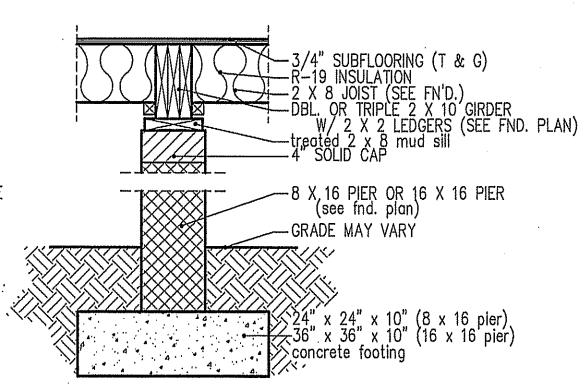


RAKE W/SIDING

NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS										
AT EACH END OF HEADERS IN EXTERIOR WALLS										
HEADER SPAN MAX. STUD. SPACING (Inches) [per Table R602.3(5)]										
(1001)	(feet) 16 24									
くゔ										
4'	2									
81	3	2								
12' 5 3										
16'	6	4								

GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.~R602.7 (1) AND INT.~R602.7 (2).



PIER and GIRDER DETAIL

DATE:

JAN. 25, 2021

892-5680 HOMES 28335 : (910) FAMILY

HOMES . FAX: DUNN, N.C. 892-1231 F (910) 892-1231 I FREEDOM

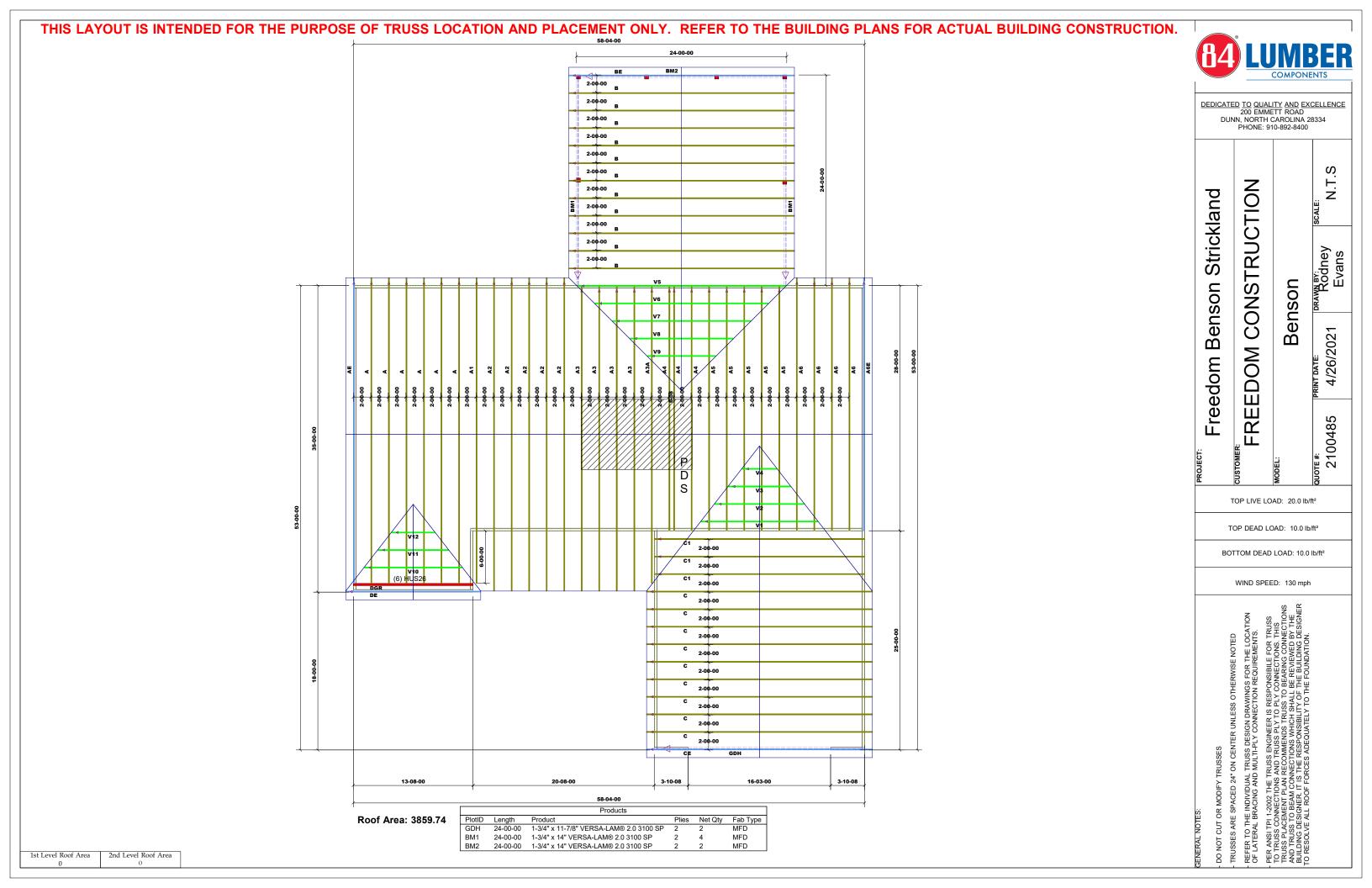
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FOR HOMES PLAN EXCLUSIN FREEDOM O Š

SHEET NO.

m

PLAN:







Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

PASSED

Roof\Dropped Beams\BM2(i21) (Dropped Beam)

Dry | 3 spans | No cant.

April 26, 2021 15:10:40

BC CALC® Member Report Build 7968

Job name:

Address:

City, State, Zip: Customer:

Code reports:

ESR-1040

File name:

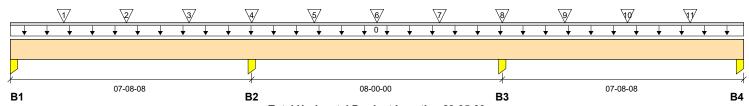
2100485A.mmdl

Roof\Dropped Beams\BM2(i21)

Description: Specifier:

Designer:

Company:



Total Horizontal Product Length = 23-05-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 2"		143 / 0		51 / 117	131 / 17	
B2, 5-1/2"		459 / 0		168 / 411	405 / 0	
B3, 5-1/2"		459 / 0		168 / 411	405 / 0	
B4, 2"		143 / 0		51 / 117	131 / 17	

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	23-05-00	Тор		14				00-00-00
1	BE(c1)	Conc. Pt. (lbs)	L	01-08-08	01-08-08	Top		85			96	n∖a
2	BE(c1)	Conc. Pt. (lbs)	L	03-08-08	03-08-08	Top		77			91	n∖a
3	BE(c1)	Conc. Pt. (lbs)	L	05-08-08	05-08-08	Top		79			89	n∖a
4	BE(c1)	Conc. Pt. (lbs)	L	07-08-08	07-08-08	Top		79			88	n∖a
5	BE(c1)	Conc. Pt. (lbs)	L	09-08-08	09-08-08	Top		79			87	n∖a
6	BE(c1)	Conc. Pt. (lbs)	L	11-08-08	11-08-08	Top		73			75	n∖a
7	BE(c1)	Conc. Pt. (lbs)	L	13-08-08	13-08-08	Top		79			87	n∖a
8	BE(c1)	Conc. Pt. (lbs)	L	15-08-08	15-08-08	Top		79			88	n∖a
9	BE(c1)	Conc. Pt. (lbs)	L	17-08-08	17-08-08	Top		79			89	n∖a
10	BE(c1)	Conc. Pt. (lbs)	L	19-08-08	19-08-08	Top		77			91	n∖a
11	BE(c1)	Conc. Pt. (lbs)	L	21-08-08	21-08-08	Top		85			96	n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	528 ft-lbs	6.9%	125%	2	03-08-08
Neg. Moment	-557 ft-lbs	6.2%	125%	1	07-08-08
End Shear	255 lbs	2.2%	125%	2	01-04-00
Cont. Shear	355 lbs	3.0%	125%	4	06-03-12
Total Load Deflection	L/999 (0.003")	n∖a	n∖a	2	03-07-00
Live Load Deflection	L/999 (0.002")	n∖a	n∖a	259	03-08-08
Total Neg. Defl.	L/999 (-0.001")	n∖a	n∖a	2	11-08-08
Max Defl.	0.003"	n∖a	n∖a	2	03-07-00
Span / Depth	6.9				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	2" x 3-1/2"	274 lbs	5.4%	5.2%	Unspecified
B2	Column	5-1/2" x 3-1/2"	864 lbs	6.2%	6.0%	Unspecified
B3	Column	5-1/2" x 3-1/2"	864 lbs	6.2%	6.0%	Unspecified
B4	Column	2" x 3-1/2"	274 lbs	5.4%	5.2%	Unspecified





Roof\Dropped Beams\BM2(i21) (Dropped Beam)



BC CALC® Member Report

Build 7968

Dry | 3 spans | No cant.

April 26, 2021 15:10:40

Job name:

Address: City, State, Zip:

Customer: Code reports: ESR-1040

2100485A.mmdl File name:

Roof\Dropped Beams\BM2(i21)

Description: Specifier:

Designer:

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

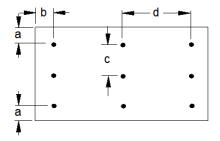
BC CALC® analysis is based on IBC 2012.

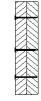
Wind loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 23-05-00, Bottom: 23-05-00.

Connection Diagram: Full Length of Member





a minimum = 2" b minimum = 3" c = 5"d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.





Roof\Dropped Beams\GDH(i12) (Dropped Beam)



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 15:10:40

Build 7968

Job name:

Address: City, State, Zip: Customer:

Code reports:

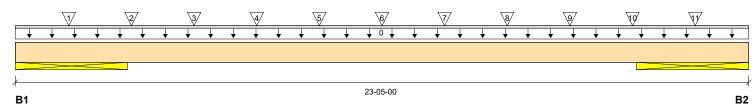
File name:

2100485A.mmdl Roof\Dropped Beams\GDH(i12)

Description:

Specifier:

Designer: Company:



Total Horizontal Product Length = 23-05-00

Reaction Summary (Down / Uplift) (lbs)

ESR-1040

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 43"		571 / 0		183 / 454	476 / 0
B2. 43"		571 / 0		183 / 454	476 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	23-05-00	Тор		12				00-00-00
1	CE(c1)	Conc. Pt. (lbs)	L	01-08-08	01-08-08	Top		83			94	n∖a
2	CE(c1)	Conc. Pt. (lbs)	L	03-08-08	03-08-08	Top		78			90	n∖a
3	CE(c1)	Conc. Pt. (lbs)	L	05-08-08	05-08-08	Top		79			88	n∖a
4	CE(c1)	Conc. Pt. (lbs)	L	07-08-08	07-08-08	Top		79			87	n∖a
5	CE(c1)	Conc. Pt. (lbs)	L	09-08-08	09-08-08	Top		78			86	n∖a
6	CE(c1)	Conc. Pt. (lbs)	L	11-08-08	11-08-08	Top		67			62	n∖a
7	CE(c1)	Conc. Pt. (lbs)	L	13-08-08	13-08-08	Top		78			86	n∖a
8	CE(c1)	Conc. Pt. (lbs)	L	15-08-08	15-08-08	Top		79			87	n∖a
9	CE(c1)	Conc. Pt. (lbs)	L	17-08-08	17-08-08	Top		79			88	n∖a
10	CE(c1)	Conc. Pt. (lbs)	L	19-08-08	19-08-08	Top		78			90	n∖a
11	CF(c1)	Conc Pt (lbs)	1	21-08-08	21-08-08	Top		83			94	n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3007 ft-lbs	49.9%	125%	1	11-08-08
End Shear	End Shear 647 lbs		125%	1	04-06-14
Total Load Deflection	L/1325 (0.148")	18.1%	n\a	1	11-08-08
Live Load Deflection	L/999 (0.066")	n\a	n\a	110	11-08-08
Max Defl.	0.148"	14.8%	n∖a	1	11-08-08
Span / Depth	16.5				
Conc. Load (B1)	177 lbs	1.9%	100%		
Conc. Load (B2)	177 lbs	1.9%	100%		

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	43" x 3-1/2"	1047 lbs	1.6%	0.9%	Spruce-Pine-Fir
B2	Wall/Plate	43" x 3-1/2"	1047 lbs	1.6%	0.9%	Spruce-Pine-Fir





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

Roof\Dropped Beams\GDH(i12) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 15:10:40

Build 7968

Job name: File name:

Description: Roof\Dropped Beams\GDH(i12) Address:

City, State, Zip: Customer:

Specifier: Designer: Company: 2100485A.mmdl

Code reports: ESR-1040

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

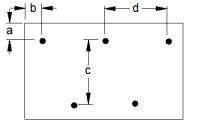
BC CALC® analysis is based on IBC 2012.

Wind loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 23-05-00, Bottom: 23-05-00.

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

c = 7-7/8" d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



BC CALC® Member Report



Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

Designer:

Company:

Roof\Flush Beams\BM1(i20) (Flush Beam)

Dry | 2 spans | No cant.

April 26, 2021 15:10:40

PASSED

Build 7968

Job name:

File name:

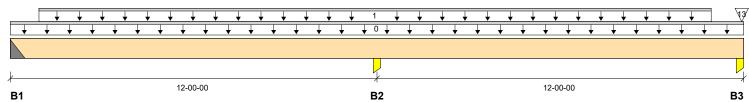
Description: Roof\Flush Beams\BM1(i20) Address:

City, State, Zip: Customer: Code reports:

ESR-1040

2100485A.mmdl

Specifier:



Total Horizontal Product Length = 24-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2"		980 / 0		392 / 725	1136 / 177
B2, 5-1/2"		3838 / 0		1548 / 2799	3792 / 0
B3, 5-1/2"		1028 / 0		426 / 818	1224 / 194

Load Summary						Live	Dead	Snow	Wind	Roof Live	Tributary	
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	24-00-00	Тор		14				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-11-04	22-11-04	Top		248			259	n∖a
13	BE(c1)	Conc. Pt. (lbs)	L	23-11-04	23-11-04	Top					83	n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	5962 ft-lbs	16.8%	125%	2	05-05-04
Neg. Moment	-6679 ft-lbs	80.1%	125%	2	12-00-00
End Shear	2097 lbs	18.0%	125%	2	01-04-00
Cont. Shear	3291 lbs	28.3%	125%	1	13-04-12
Total Load Deflection	L/999 (0.081")	n∖a	n∖a	2	05-05-04
Live Load Deflection	L/999 (0.05")	n∖a	n∖a	165	05-08-04
Total Neg. Defl.	L/999 (-0.008")	n∖a	n∖a	2	13-09-10
Max Defl.	0.081"	n∖a	n∖a	2	05-05-04
Span / Depth	10.2				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Hanger	2" x 3-1/2"	2116 lbs	n\a	40.3%	Hanger
B2	Column	5-1/2" x 3-1/2"	7629 lbs	54.7%	52.8%	Unspecified
B3	Column	5-1/2" x 3-1/2"	2252 lbs	16.1%	15.6%	Unspecified

Cautions

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Unassigned

BC CALC® analysis is based on IBC 2012.

Wind loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 01-10-08, Bottom: 23-08-08.



BC CALC® Member Report



Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

File name:

2100485A.mmdl

Roof\Flush Beams\BM1(i20) (Flush Beam)

Dry | 2 spans | No cant.

April 26, 2021 15:10:40

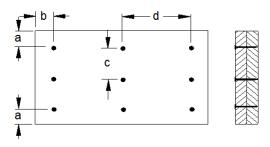
PASSED

Build 7968 Job name:

Address: Description: Roof\Flush Beams\BM1(i20)

City, State, Zip: Specifier: Customer: Designer: Code reports: ESR-1040 Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

Roof\Flush Beams\BM1(i22) (Flush Beam)

Dry | 2 spans | No cant.

April 26, 2021 15:10:40

PASSED

Build 7968

Job name:

BC CALC® Member Report

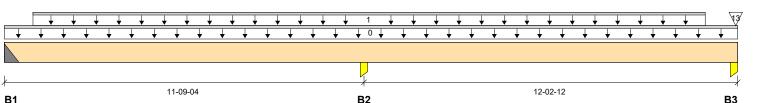
File name: 2100485A.mmdl Description: Roof\Flush Beams\BM1(i22) Address:

City, State, Zip: Customer: Code reports:

ESR-1040

Specifier: Designer:

Company:



Total Horizontal Product Length = 24-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2"		947 / 0		379 / 705	1116 / 189
B2, 5-1/2"		3837 / 0		1548 / 2800	3791 / 0
B3, 5-1/2"		1061 / 0		439 / 841	1243 / 182

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	24-00-00	Тор		14				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-11-04	22-11-04	Top		248			259	n∖a
13	BE(c1)	Conc. Pt. (lbs)	L	23-11-04	23-11-04	Top					83	n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	5944 ft-lbs	16.8%	125%	3	17-11-04
Neg. Moment	-6629 ft-lbs	78.9%	125%	3	11-09-04
End Shear	2143 lbs	18.4%	125%	3	22-04-08
Cont. Shear	3348 lbs	28.8%	125%	1	10-04-08
Total Load Deflection	L/999 (0.079")	n\a	n∖a	3	18-03-12
Live Load Deflection	L/999 (0.049")	n∖a	n∖a	166	18-00-12
Total Neg. Defl.	L/999 (-0.007")	n∖a	n∖a	3	09-11-04
Max Defl.	0.079"	n∖a	n∖a	3	18-03-12
Span / Depth	10.1				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Hanger	2" x 3-1/2"	2064 lbs	n\a	39.3%	Hanger
B2	Column	5-1/2" x 3-1/2"	7629 lbs	54.7%	52.8%	Unspecified
B3	Column	5-1/2" x 3-1/2"	2304 lbs	16.5%	16.0%	Unspecified

Cautions

Hanger model Hanger was not found. Hanger has not been analyzed for adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Unassigned

BC CALC® analysis is based on IBC 2012.

Wind loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 01-10-08, Bottom: 23-08-08.





Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

Specifier:

Roof\Flush Beams\BM1(i22) (Flush Beam)

April 26, 2021 15:10:40

PASSED

BC CALC® Member Report

City, State, Zip:

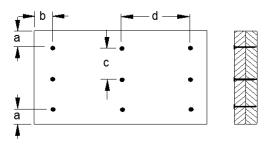
Dry | 2 spans | No cant. **Build 7968**

Job name: File name: 2100485A.mmdl

Address: Description: Roof\Flush Beams\BM1(i22)

Customer: Designer: Code reports: ESR-1040 Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.