

**FRONT ELEVATION**

SCALE: 1/4" = 1'0"

DETERMINE STEPS ON SITE BY GRADE

**NOTICE TO CONTRACTOR**  
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
 Limited building only review  
 Permit holder responsible for full compliance with the code

04/28/2021

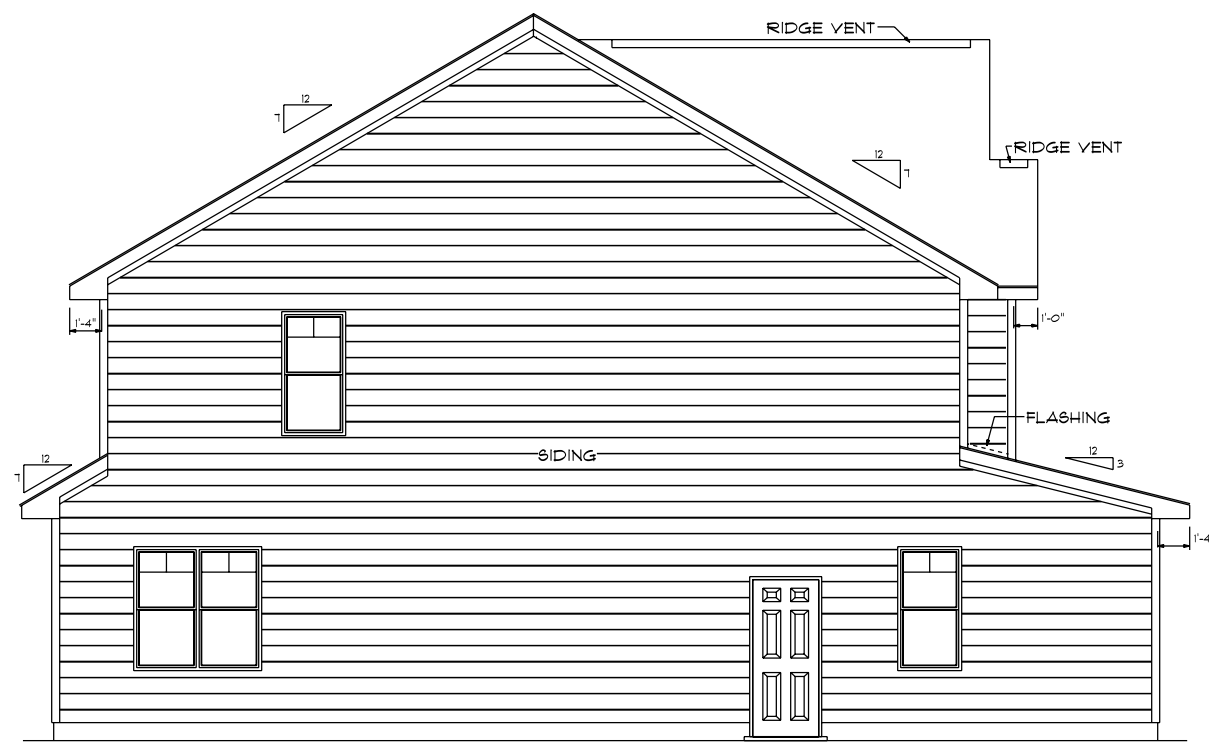



**I DO HERBY CERTIFY THAT THIS DRAWING AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH THE INTERNATIONAL BUILDING CODE COUNCIL (2018 N.C. BUILDING CODE).**

DESIGNED BY  
 GCP DESIGNS  
 HOPE MILLS, NORTH CAROLINA  
 WWW.GCP@MYWAY.COM

BOOHER  
 SE-2171

**SOUTHEASTERN CONSTRUCTION**



**LEFT ELEVATION**

SCALE: 1/8" = 1'0"

ATTIC VENTILIZATION -  $3462 \text{ S/F} / 300 = 11.54 \text{ S/F REQUIRED}$

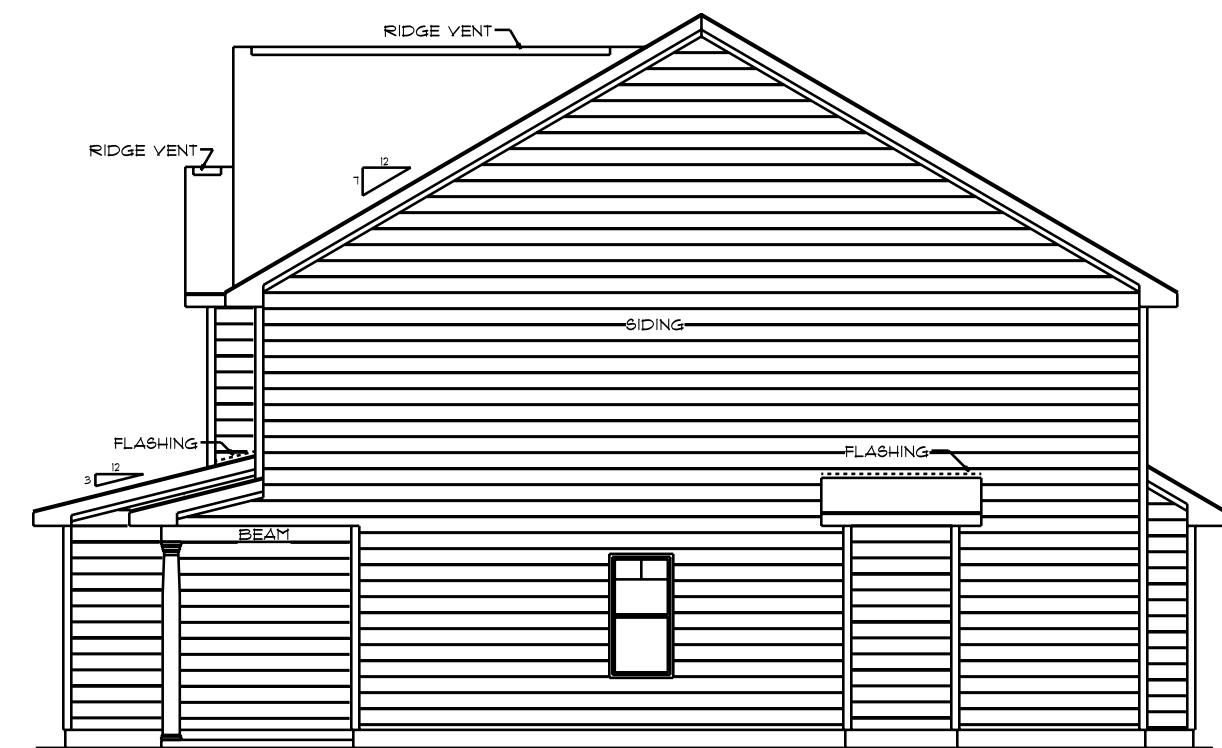
9'0" FINISHED CEILING HEIGHT ON FIRST FLOOR  
 7'4" WINDOW HEADER HEIGHT ON FIRST FLOOR  
 8'0" FINISHED CEILING HEIGHT ON SECOND FLOOR  
 6'8" WINDOW HEADER HEIGHT ON SECOND FLOOR



**REAR ELEVATION**

SCALE: 1/8" = 1'0"

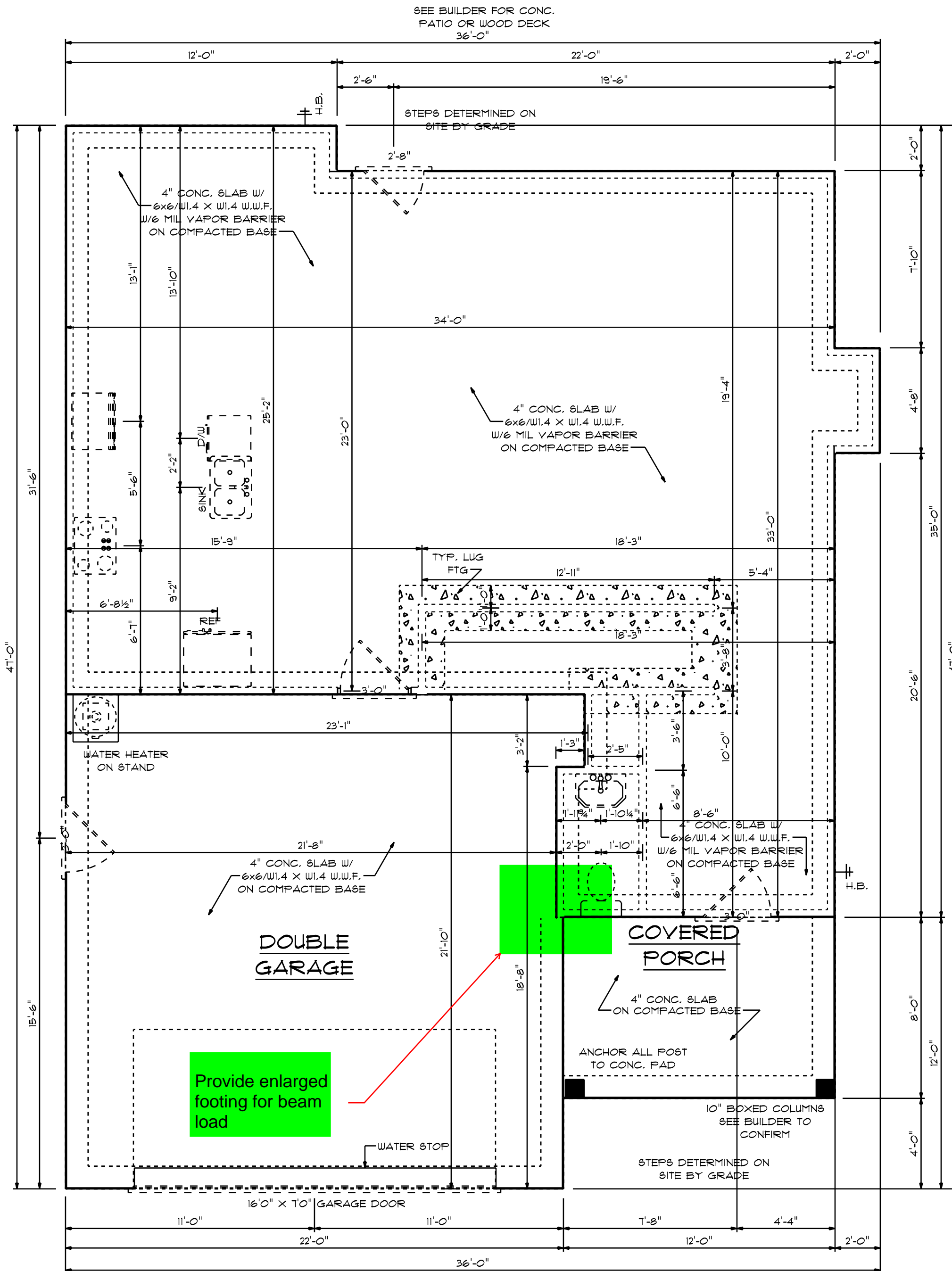
DETERMINE STEPS ON SITE BY GRADE



**RIGHT ELEVATION**

SCALE: 1/8" = 1'0"

SCALE: AS NOTED	SUBDIVISION
DATE: FEB. 2021	LOT NO.
DRAWN BY: CGP	NOTES



**CONCRETE NOTES**

NOTES:  
 1) MINIMUM SOIL BEARING CAPACITY: 2000 psf.  
 2) CONCRETE COMPRESSIVE STRENGTH @ END OF 28 DAYS (MIN) FOUNDATIONS, FOOTING, & INTERIOR SLABS = 3000 psi. EXTERIOR SLAB (EXPOSED TO WEATHER) = 3500 psi.

**FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"

930 S/F ON FIRST FLOOR  
 1241 S/F ON SECOND FLOOR  
 2171 S/F TOTAL HEATED AREA  
 481 S/F IN DOUBLE GARAGE  
 96 S/F ON FRONT PORCH

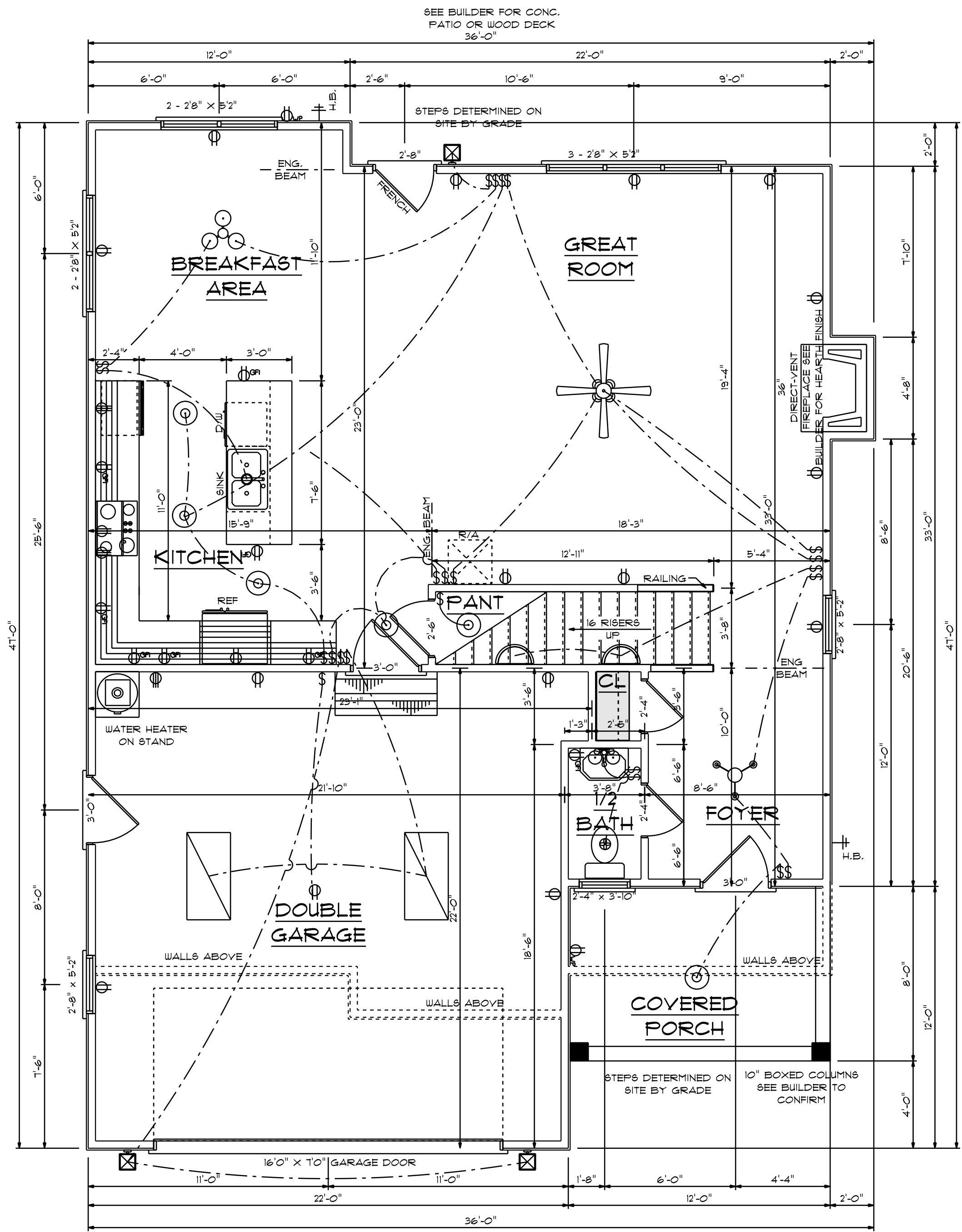
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**SOUTHEASTERN CONSTRUCTION**

SCALE: AS NOTED	SUBDIVISION
DATE: FEB. 2021	LOT NO.
DRAWN BY: CGP	NOTES



ELEC. CONTRACTOR TO CONFIRM  
 OULET LOCATION AND FIXTURE TYPES  
 WITH OWNER

**FIRST FLOOR**  
 SCALE: 1/4" = 1'0"

930 S/F ON FIRST FLOOR  
 1241 S/F ON SECOND FLOOR  
 2171 S/F TOTAL HEATED AREA  
 481 S/F IN DOUBLE GARAGE  
 96 S/F ON FRONT PORCH

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
ceiling fan spotlights 01	1	
baco luster	1	
can light 6inch	1	
ceiling dish round	6	
ceiling light 08	1	
fluorescent light 2 x 4	2	
exterior light 03	3	
fan	1	
outlet	16	
outlet 220v	4	
outlet gfi	8	
outlet wp	2	
switch	23	
italian sconce 01	2	
wall mounted 01 2 lights	1	

HOUSEHOLD FIRE ALARMS SYSTEMS INSTALLED IN ACCORDANCE WITH BOTH INTERNATIONAL AND LOCAL BUILDING CODES IN THE FOLLOWING LOCATIONS.

1. IN EACH SLEEPING ROOM
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS AND WIRED TOGETHER IN SUCH A MANNER THAT WHEN ONE IS ACTIVATED ALL SHALL ACTIVATE

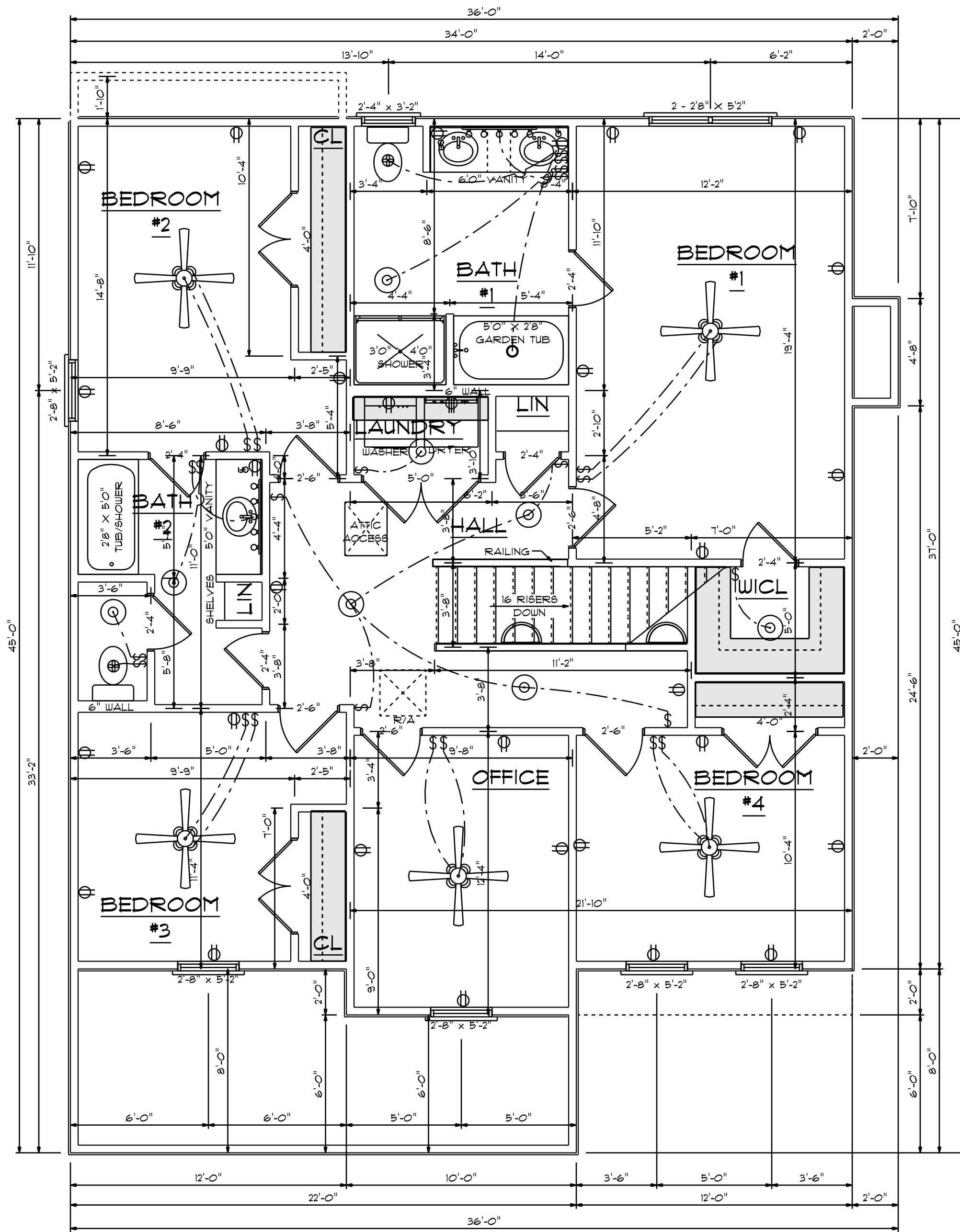
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**SOUTHEASTERN CONSTRUCTION**

BOOHER  
 SE-2171

SCALE: AS NOTED  
 DATE: FEB. 2021  
 DRAWN BY: CGP



ELEC. CONTRACTOR TO CONFIRM  
 OULET LOCATION AND FIXTURE TYPES  
 WITH OWNER

**SECOND FLOOR**

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

1241 S/F ON SECOND FLOOR  
 DOESN'T INCLUDE STAIRS

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
ceiling fan spotlights 01	5	
can light 6inch	1	
ceiling dish round	8	
fan	2	
outlet	27	
outlet 220v	1	
outlet gfi	3	
switch	24	
italian sconce 01	2	
vanity bar light 01	2	

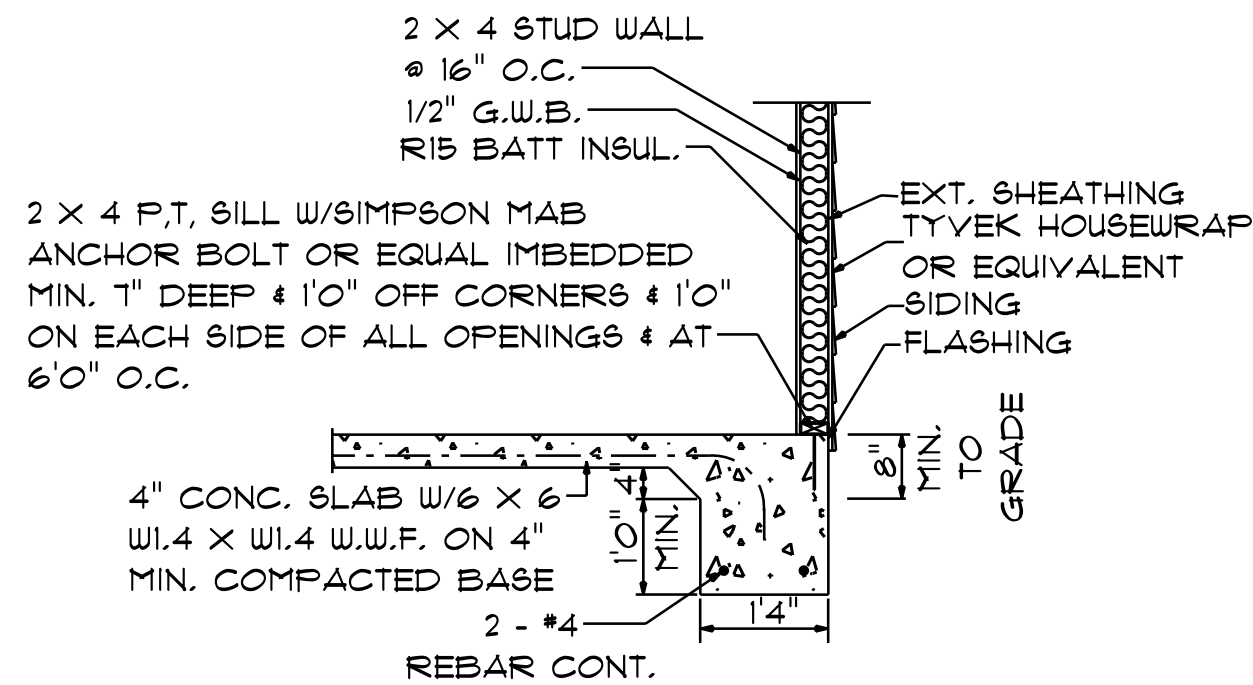
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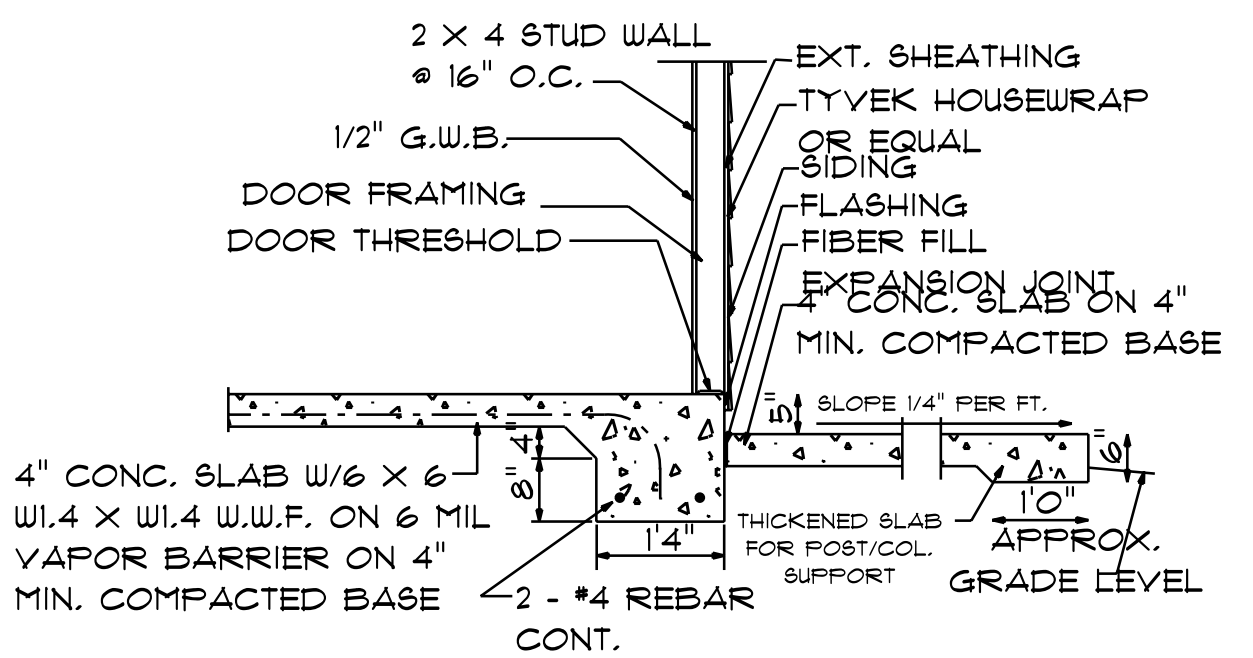
BOOHER  
 SE-2171

**SOUTHEASTERN CONSTRUCTION**

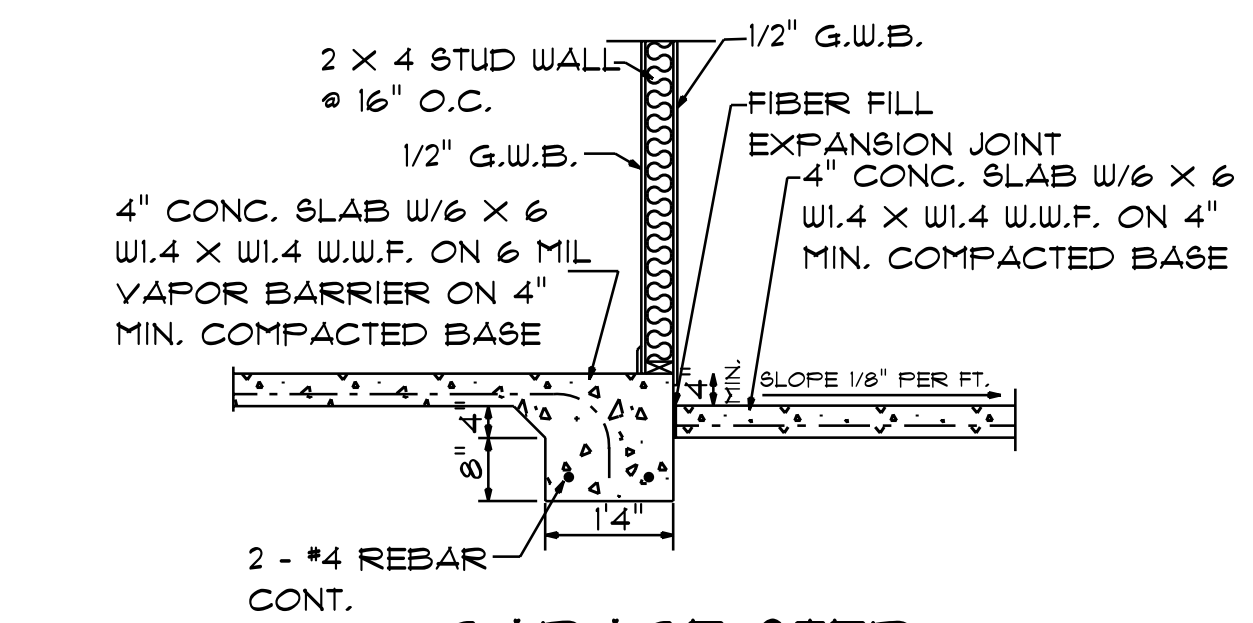
SCALE: AS NOTED	SUBDIVISION
DATE: FEB. 2021	LOT NO.
DRAWN BY: CGP	NOTES



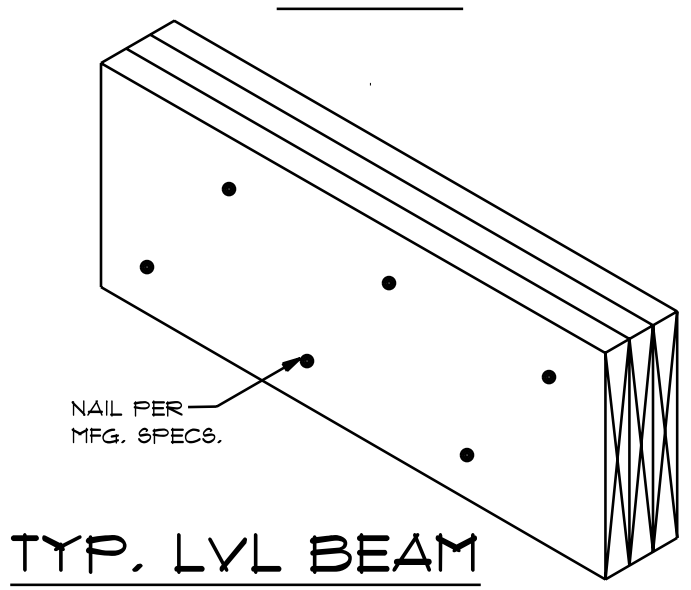
**EXTERIOR WALL W/SIDING**



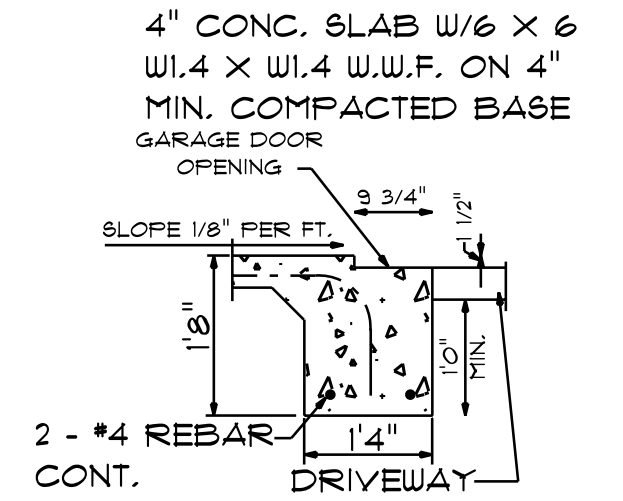
**EXTERIOR WALL @ PORCH W/SIDING**



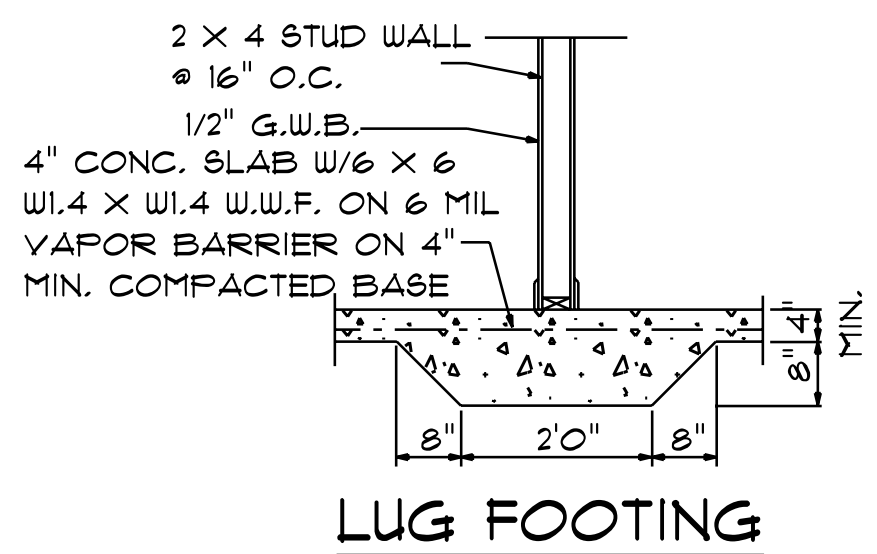
**GARAGE STEP DOWN**



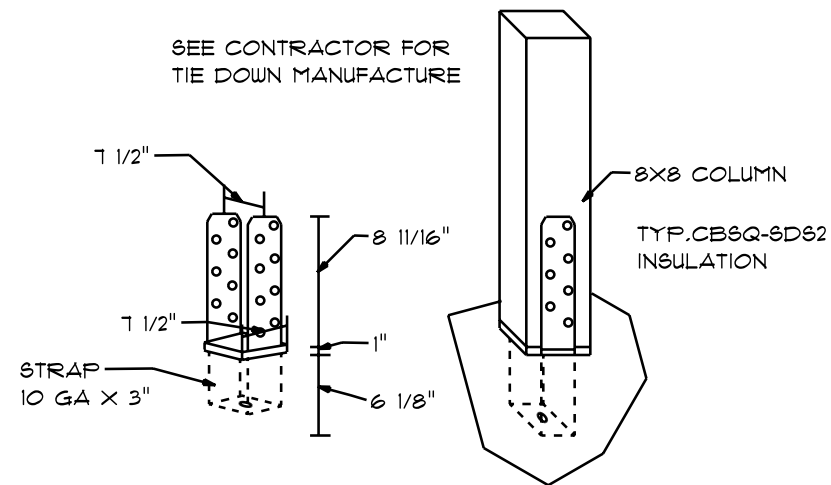
**TYP. LVL BEAM**



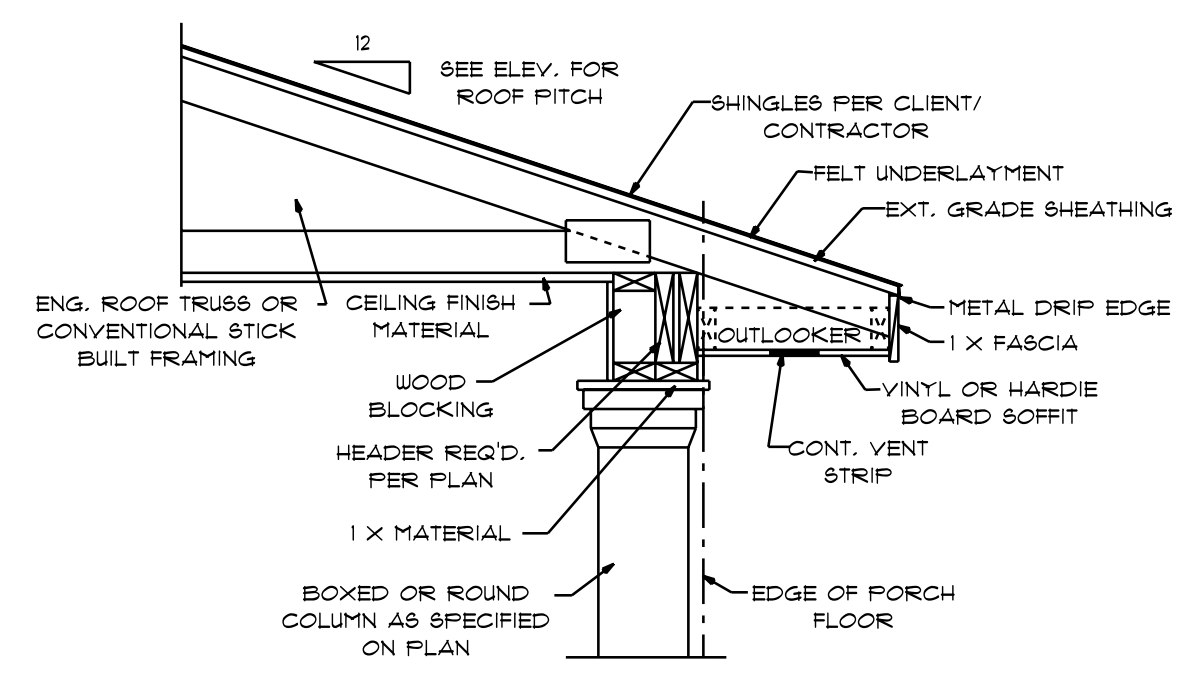
**GARAGE DOOR WATER STOP**



**LUG FOOTING**

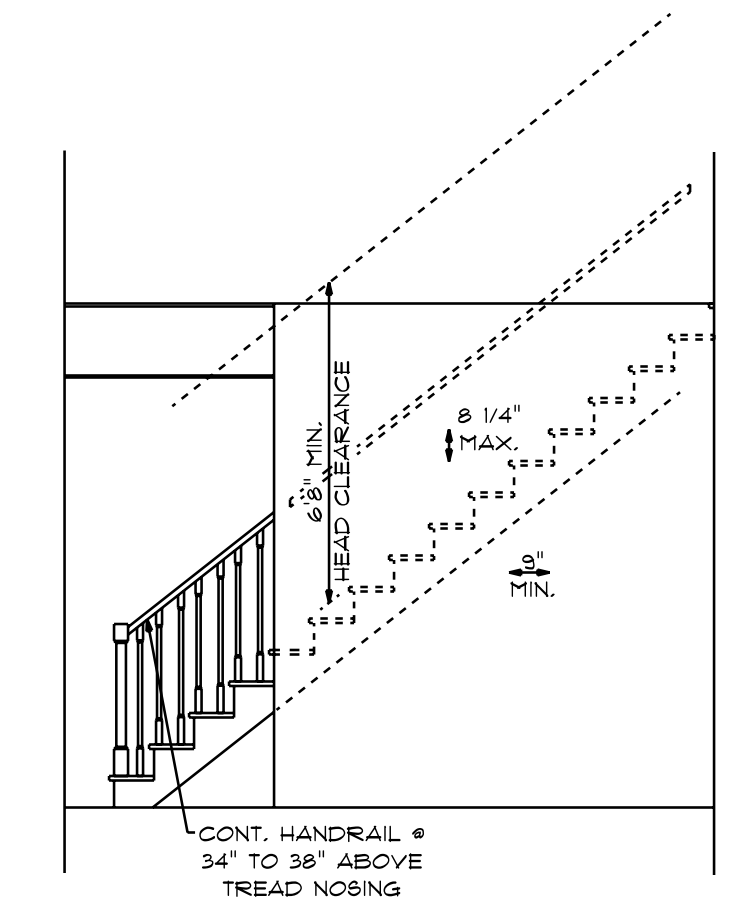


**TYP. TIE DOWN DETAIL**

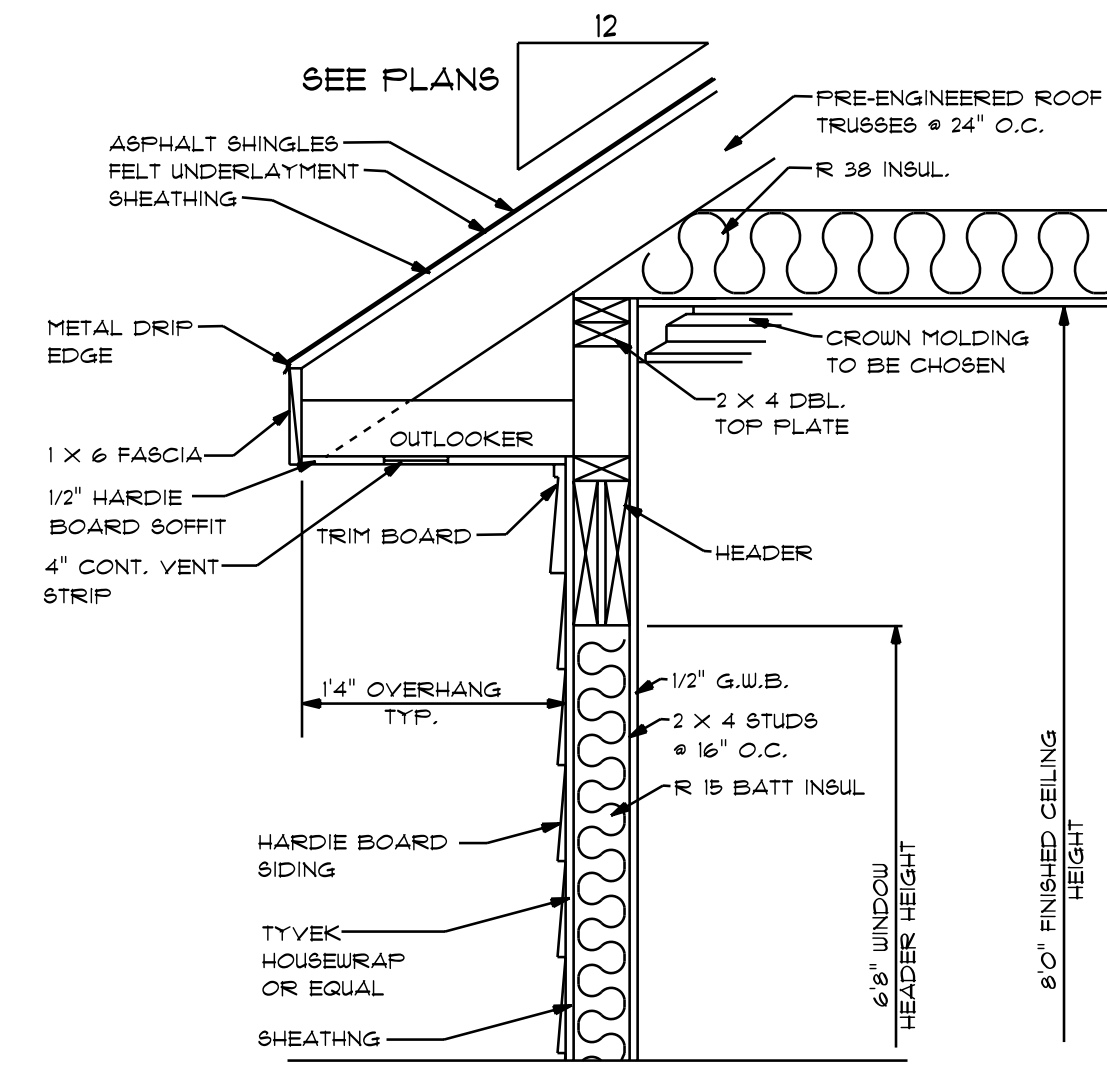


**PORCH ROOF/HEADER W/BOXED OR ROUND COLUMN**

SCALE: 3/4" = 1'0"



**TYPICAL STAIR DETAIL**



**TYP. OVERHANG DETAIL**

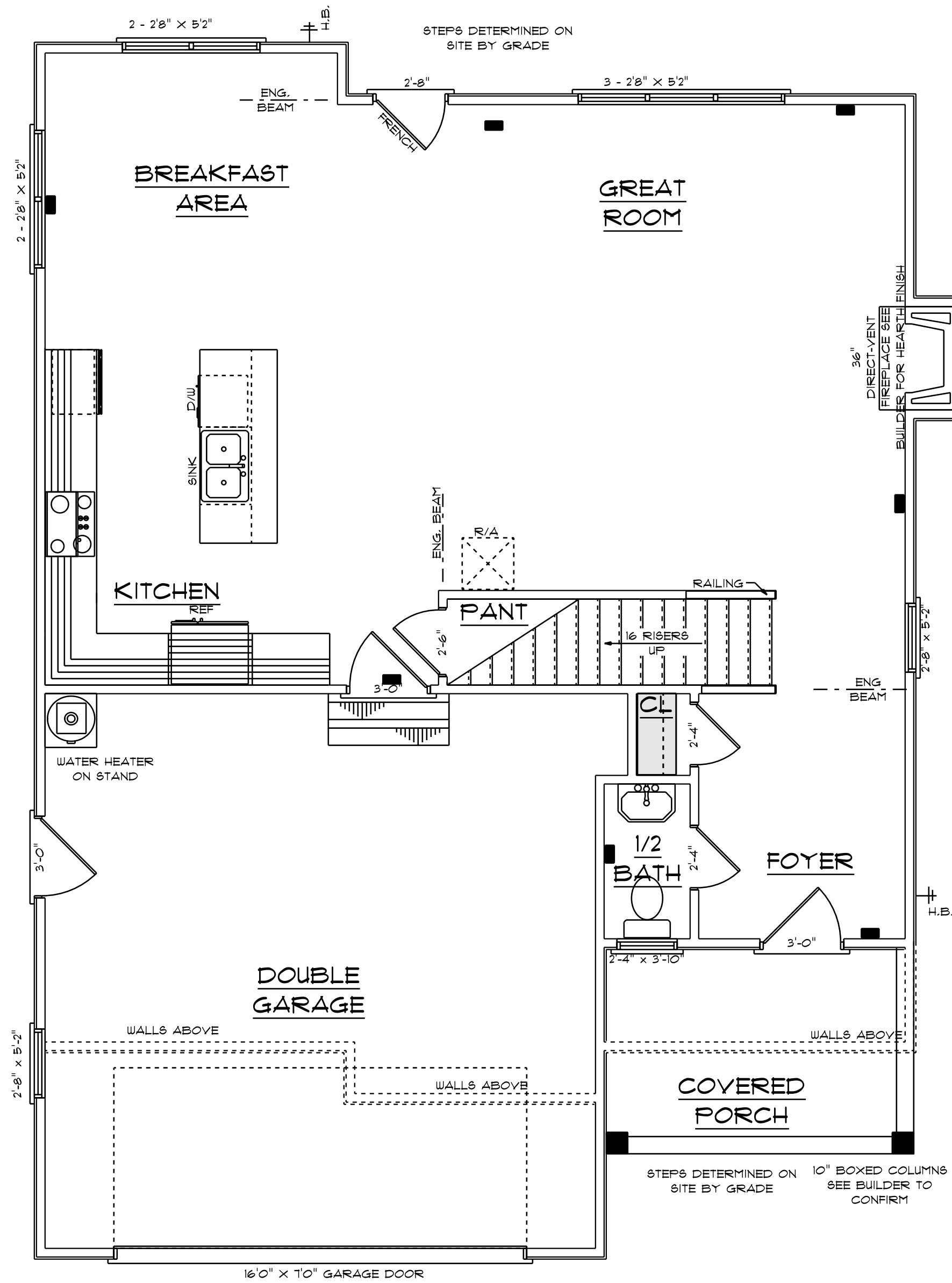
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WWW.00GCP@MYWAY.COM

BOOHER  
SE-2171

**SOUTHEASTERN CONSTRUCTION**

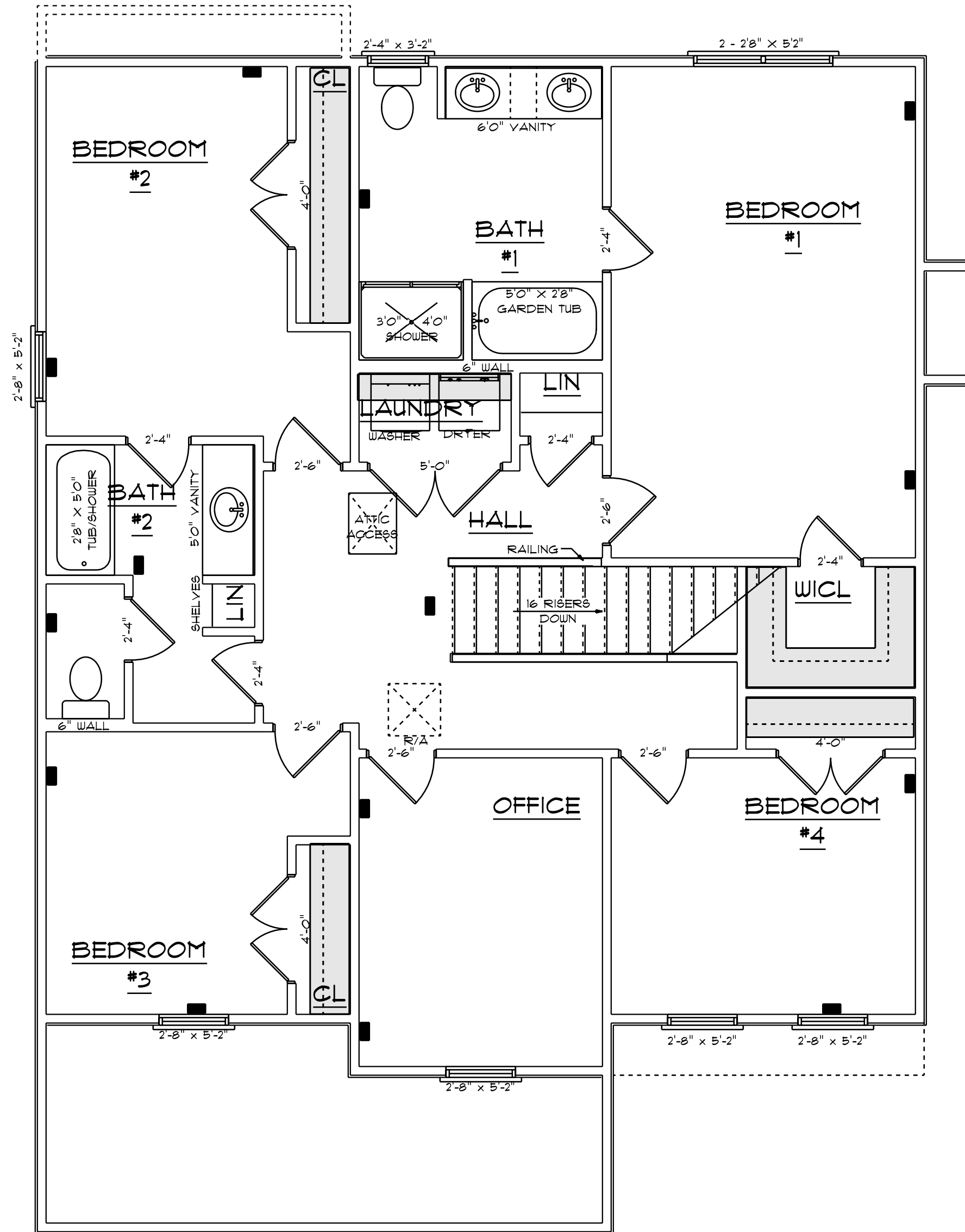
SCALE: AS NOTED	SUBMISSION
DATE: FEB. 2021	LOT NO.
DRAWN BY: CGP	NOTES:



HVAC CONTRACTOR TO CONFIRM VENT LOCATION AND SIZE OF UNIT

**HVAC PLAN  
FIRST FLOOR**  
SCALE: 1/4" = 1'0"

930 S/F ON FIRST FLOOR  
1241 S/F ON SECOND FLOOR  
**2171 S/F TOTAL HEATED AREA**  
481 S/F IN DOUBLE GARAGE  
96 S/F ON FRONT PORCH



**HVAC PLAN  
SECOND FLOOR**  
SCALE: 1/4" = 1'0"

1241 S/F ON SECOND FLOOR  
DOESN'T INCLUDE STAIRS

I DO HERBY CERTIFY THAT THIS DRAWING AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH THE INTERNATIONAL BUILDING CODE COUNCIL(2018 N.C. BUILDING CODE).

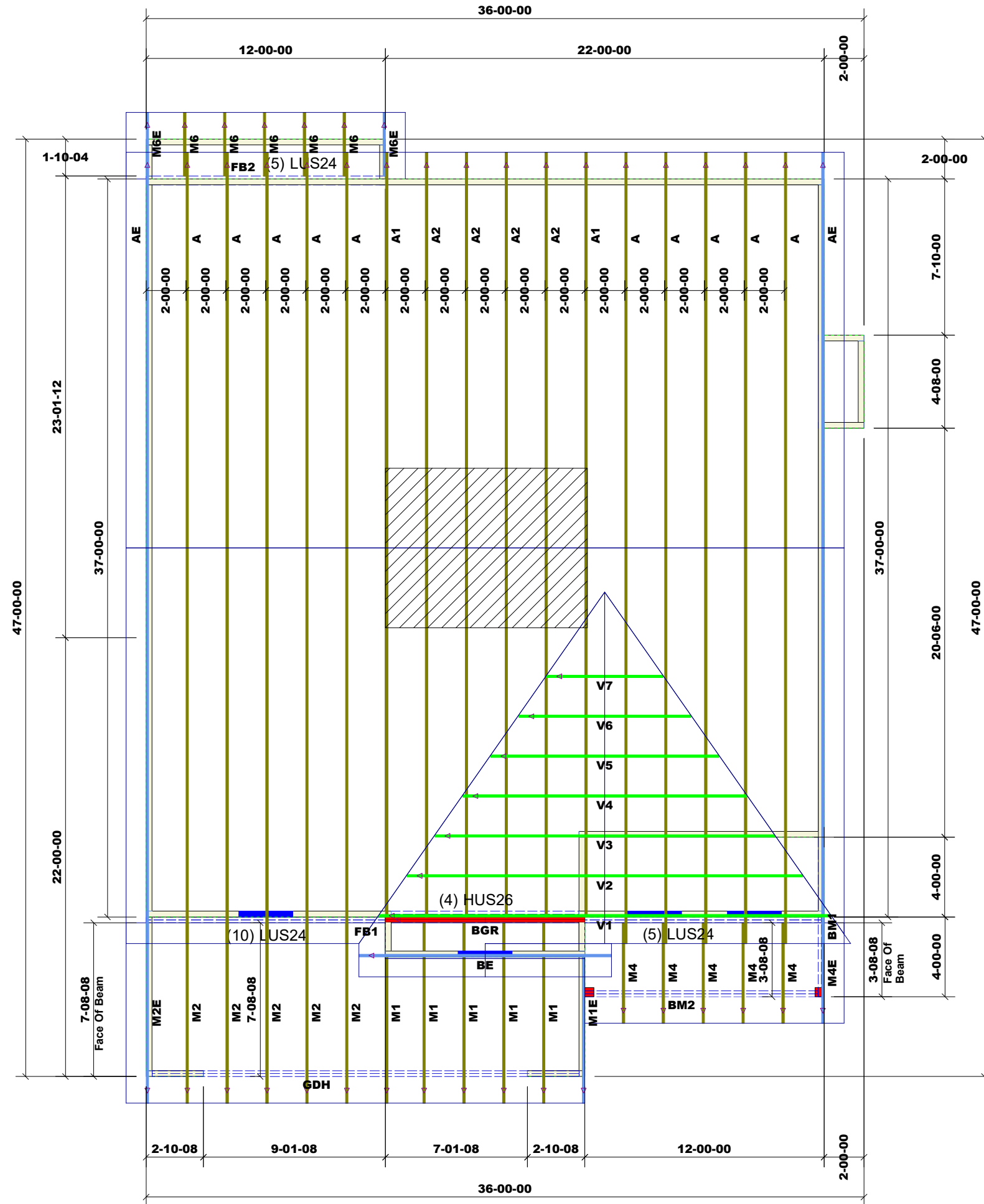
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BOOHER  
SE-2171

**SOUTHEASTERN CONSTRUCTION**

SCALE: AS NOTED	SUBDIVISION
DATE: FEB. 2021	LOT NO.
DRAWN BY: GCP	NOTES

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



1st Level Roof Area 335.39	2nd Level Roof Area 0
-------------------------------	--------------------------



DEDICATED TO QUALITY AND EXCELLENCE  
200 EMMETT ROAD  
DUNN, NORTH CAROLINA 28334  
PHONE: 910-892-8400

<b>PROJECT:</b> 120 BEECHLEAF - SOUTHEASTERN	
<b>CUSTOMER:</b> Southeastern Construction	
<b>MODEL:</b> BOOHER SE-2171	
<b>QUOTE #:</b> 2100198	<b>PRINT DATE:</b> 2/24/2021
<b>DRAWN BY:</b> Rodney Evans	<b>SCALE:</b> N.T.S

<b>TOP LIVE LOAD:</b> 20.0 lb/ft <sup>2</sup>
<b>TOP DEAD LOAD:</b> 10.0 lb/ft <sup>2</sup>
<b>BOTTOM DEAD LOAD:</b> 10.0 lb/ft <sup>2</sup>
<b>WIND SPEED:</b> 130 mph

**GENERAL NOTES:**

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

**1st Floor\Dropped Beams\BM2(i55) (Dropped Beam)**

BC CALC® Member Report

Dry | 1 span | No cant.

February 24, 2021 15:08:58

Build 7493

Job name:

File name: 2100199A.mmdl

Address:

Description: 1st Floor\Dropped Beams\BM2(i55)

City, State, Zip:

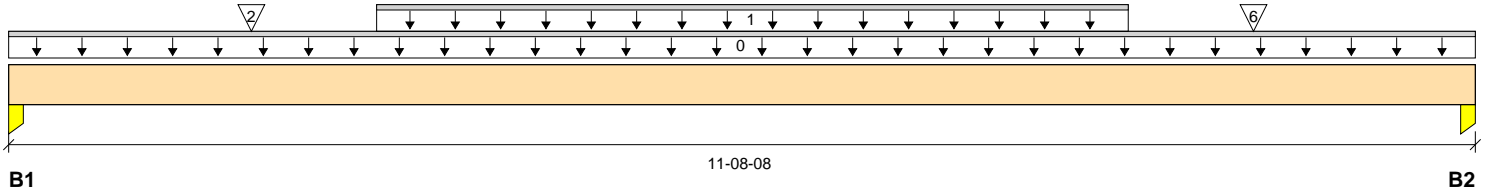
Specifier:

Customer:

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 11-08-08

**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"		323 / 0		83 / 278	294 / 0
B2, 2"		333 / 0		91 / 407	325 / 0

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-08-08	Top		9				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	02-11-04	08-11-04	Top		48			48	n/a
2	M4(c5)	Conc. Pt. (lbs)	L	01-11-04	01-11-04	Top		117			140	n/a
6	M4(c1)	Conc. Pt. (lbs)	L	09-11-04	09-11-04	Top		144			194	n/a

**Controls Summary**

	Value	% Allowable	Duration	Case	Location
Pos. Moment	1843 ft-lbs	11.3%	125%	1	05-11-04
Neg. Moment	-83 ft-lbs	0.4%	160%	90	09-11-04
End Shear	650 lbs	8.4%	125%	1	10-09-04
Total Load Deflection	L/999 (0.09")	n/a	n/a	1	06-00-12
Live Load Deflection	L/999 (0.043")	n/a	n/a	92	06-00-12
Max Defl.	0.09"	n/a	n/a	1	06-00-12
Span / Depth	14.5				

**Bearing Supports**

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 5-1/2" x 3-1/2"	616 lbs	4.4%	4.3%	Unspecified
B2	Column 2" x 3-1/2"	658 lbs	13.0%	12.5%	Unspecified

**Notes**

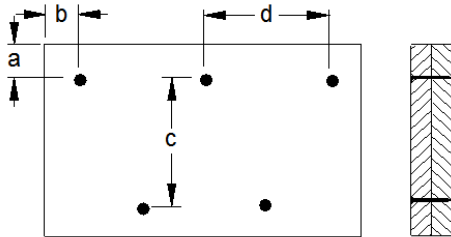
Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.  
 Design meets arbitrary (1") Maximum Total load deflection criteria.  
 Design meets arbitrary (0.75") Maximum live load deflection criteria.  
 Calculations assume unbraced length of Top: 01-10-08, Bottom: 01-10-08.  
 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.



BC CALC® Member Report  
 Build 7493  
 Job name:  
 Address:  
 City, State, Zip:  
 Customer:  
 Code reports: ESR-1040

File name: 2100199A.mmdl  
 Description: 1st Floor\Dropped Beams\BM2(i55)  
 Specifier:  
 Designer:  
 Company:

**Connection Diagram: Full Length of Member**



a minimum = 2"      c = 5-1/4"  
 b minimum = 3"      d = 24"

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®, BC FRAMER®, AJST™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

**Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP**  
**1st Floor\Dropped Beams\GDH(i57) (Dropped Beam)**

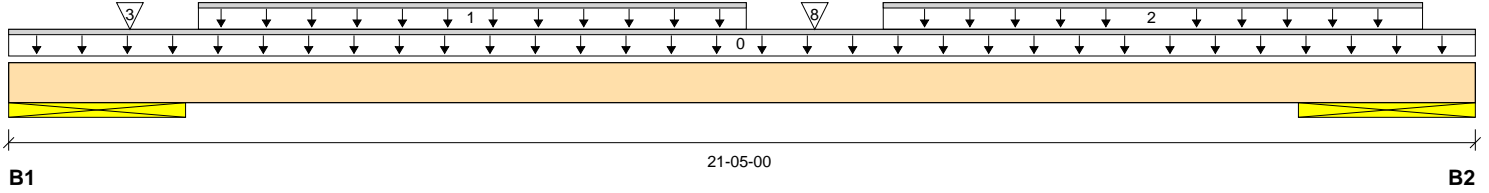
**PASSED**

BC CALC® Member Report  
 Build 7493  
 Job name:  
 Address:  
 City, State, Zip:  
 Customer:  
 Code reports: ESR-1040

Dry | 1 span | No cant.

February 24, 2021 15:08:58

File name: 2100199A.mmdl  
 Description: 1st Floor\Dropped Beams\GDH(i57)  
 Specifier:  
 Designer:  
 Company:



Total Horizontal Product Length = 21-05-00

**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 31"		1115 / 0		295 / 1109	1051 / 0
B2, 31"		1027 / 0		245 / 690	872 / 0

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	21-05-00	Top		14				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	02-09-04	10-09-04	Top		88			88	n/a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	12-09-04	20-07-12	Top		88			88	n/a
3	M2(c1)	Conc. Pt. (lbs)	L	01-09-04	01-09-04	Top		266			356	n/a
8	M1(c5)	Conc. Pt. (lbs)	L	11-09-04	11-09-04	Top		171			166	n/a

**Controls Summary**

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5923 ft-lbs	16.8%	125%	1	09-09-04
End Shear	1141 lbs	9.8%	125%	1	03-09-00
Total Load Deflection	L/1111 (0.177")	21.6%	n/a	1	10-09-04
Live Load Deflection	L/999 (0.081")	n/a	n/a	98	10-09-04
Max Defl.	0.177"	17.7%	n/a	1	10-09-04
Span / Depth	14.0				
Conc. Load (B1)	622 lbs	6.8%	100%		
Conc. Load (B2)	355 lbs	3.9%	100%		

**Bearing Supports**

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 31" x 3-1/2"	2166 lbs	4.7%	2.7%	Spruce-Pine-Fir
B2	Wall/Plate 31" x 3-1/2"	1899 lbs	4.1%	2.3%	Spruce-Pine-Fir

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

BC CALC® Member Report

Build 7493

Job name:

File name: 2100199A.mmdl

Address:

Description: 1st Floor\Dropped Beams\GDH(i57)

City, State, Zip:

Specifier:

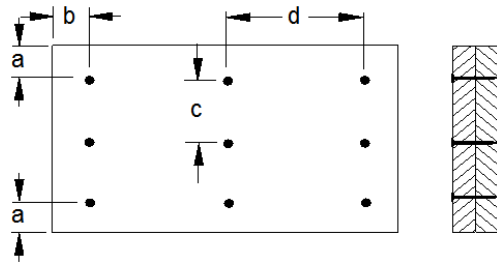
Customer:

Designer:

Code reports: ESR-1040

Company:

**Connection Diagram: Full Length of Member**



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

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

**Disclosure**

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**1st Floor\Flush Beams\BM1(i60) (Flush Beam)**

BC CALC® Member Report

Dry | 1 span | No cant.

February 24, 2021 15:08:58

Build 7493

Job name:

File name: 2100199A.mmdl

Address:

Description: 1st Floor\Flush Beams\BM1(i60)

City, State, Zip:

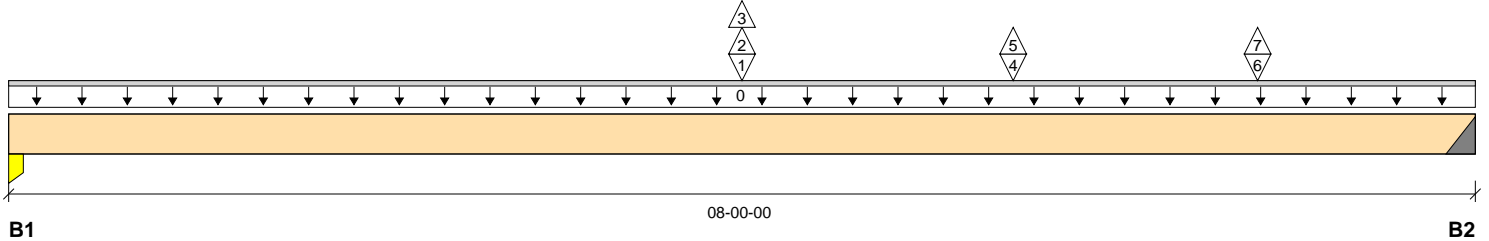
Specifier:

Customer:

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 08-00-00

**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"	227 / 129	926 / 0		187 / 586	1198 / 526
B2, 2"	534 / 304	1101 / 0		204 / 666	1229 / 487

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-00-00	Top		9				00-00-00
1	FB1(i59)	Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	167	1470			2173	n\la
2	FB1(i59)	Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	-94					n\la
3	FB1(i59)	Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top					-1013	n\la
4	F1(c6)	Conc. Pt. (lbs)	L	05-05-12	05-05-12	Top	305	305			183	n\la
5	F1(c6)	Conc. Pt. (lbs)	L	05-05-12	05-05-12	Top	-174					n\la
6	F1(c5)	Conc. Pt. (lbs)	L	06-09-12	06-09-12	Top	289	177			71	n\la
7	F1(c5)	Conc. Pt. (lbs)	L	06-09-12	06-09-12	Top	-165					n\la

**Controls Summary**

	Value	% Allowable	Duration	Case	Location
Pos. Moment	7581 ft-lbs	47.4%	125%	3	04-00-00
End Shear	2415 lbs	31.4%	125%	5	07-00-12
Total Load Deflection	L/653 (0.138")	36.7%	n\la	3	04-02-04
Live Load Deflection	L/999 (0.078")	n\la	n\la	266	04-02-04
Max Defl.	0.138"	13.8%	n\la	3	04-02-04
Span / Depth	9.7				

**Bearing Supports**

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 5-1/2" x 3-1/2"	2124 lbs	15.2%	14.7%	Unspecified
B2	Hanger 2" x 3-1/2"	2515 lbs	n\la	47.9%	Hanger

**Cautions**

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

Build 7493

Job name:

File name: 2100199A.mmdl

Address:

Description: 1st Floor\Flush Beams\BM1(i60)

City, State, Zip:

Specifier:

Customer:

Designer:

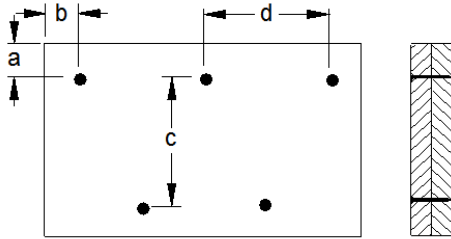
Code reports: ESR-1040

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.  
 Calculations assume unbraced length of Top: 03-05-00, Bottom: 03-05-00.  
 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.

**Connection Diagram: Full Length of Member**



a minimum = 2"      c = 5-1/4"  
 b minimum = 3"      d = 24"

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

**Disclosure**

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BC CALC®, BC FRAMER®, AJST™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

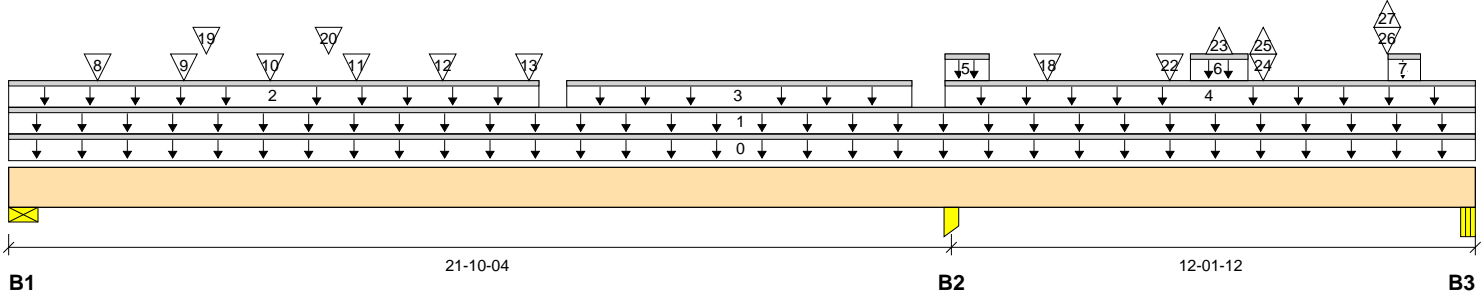
**1st Floor\Flush Beams\FB1(i59) (Flush Beam)**

BC CALC® Member Report  
 Build 7493  
 Job name:  
 Address:  
 City, State, Zip:  
 Customer:  
 Code reports: ESR-1040

Dry | 2 spans | No cant.

February 24, 2021 15:08:58

File name: 2100199A.mmdl  
 Description: 1st Floor\Flush Beams\FB1(i59)  
 Specifier:  
 Designer:  
 Company:



**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	275 / 9	4333 / 0		1287 / 2637	3761 / 131
B2, 3-1/2"	666 / 0	8818 / 0		2046 / 4297	7303 / 12
B3, 3-1/2"	167 / 94	1468 / 0		323 / 964	2172 / 1033

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live		Snow	Wind		Roof Live	Tributary
							100%	90%		115%	160%		
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	34-00-00	Top		32					00-00-00
1	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	34-00-00	Top	30	7					n/a
2	E19(i31)	Unf. Lin. (lb/ft)	L	00-00-00	12-03-08	Top		57					n/a
3	Smoothed Load	Unf. Lin. (lb/ft)	L	12-11-04	20-11-04	Top		87		88			n/a
4	E15(i29)	Unf. Lin. (lb/ft)	L	21-08-08	34-00-00	Top		57					n/a
5	E15(i29)	Unf. Lin. (lb/ft)	L	21-08-08	22-08-12	Top		744			767		n/a
6	E15(i29)	Unf. Lin. (lb/ft)	L	27-04-12	28-08-12	Top		566			537		n/a
7	E15(i29)	Unf. Lin. (lb/ft)	L	31-11-12	32-08-12	Top		558			525		n/a
8	-	Conc. Pt. (lbs)	L	02-00-12	02-00-12	Top		1060			1154		n/a
9	-	Conc. Pt. (lbs)	L	04-00-12	04-00-12	Top		970			973		n/a
10	M2(c3)	Conc. Pt. (lbs)	L	06-00-12	06-00-12	Top		175			175		n/a
11	-	Conc. Pt. (lbs)	L	08-00-12	08-00-12	Top		970			973		n/a
12	-	Conc. Pt. (lbs)	L	10-00-12	10-00-12	Top		990			1013		n/a
13	-	Conc. Pt. (lbs)	L	12-00-12	12-00-12	Top		920			927		n/a
18	-	Conc. Pt. (lbs)	L	24-00-15	24-00-15	Top		1026			1196		n/a
19	E19(i31)	Conc. Pt. (lbs)	L	04-07-00	04-07-00	Top		384			382		n/a
20	E19(i31)	Conc. Pt. (lbs)	L	07-05-00	07-05-00	Top		418			416		n/a
22	E15(i29)	Conc. Pt. (lbs)	L	26-11-00	26-11-00	Top		589			594		n/a
23	E15(i29)	Conc. Pt. (lbs)	L	28-00-12	28-00-12	Top					-5		n/a
24	E15(i29)	Conc. Pt. (lbs)	L	29-01-00	29-01-00	Top			586		618		n/a
25	E15(i29)	Conc. Pt. (lbs)	L	29-01-00	29-01-00	Top					-13		n/a
26	-	Conc. Pt. (lbs)	L	31-11-08	31-11-08	Top			743		793		n/a
27	-	Conc. Pt. (lbs)	L	31-11-08	31-11-08	Top					-13		n/a

**Controls Summary**

	Value	% Allowable	Duration	Case	Location
Pos. Moment	35295 ft-lbs	37.8%	125%	6	08-00-12
Neg. Moment	-32867 ft-lbs	35.2%	125%	4	21-10-04
End Shear	7936 lbs	29.8%	125%	6	01-07-08
Cont. Shear	8623 lbs	32.4%	125%	4	23-04-00
Total Load Deflection	L/538 (0.483")	44.6%	n/a	6	09-06-12
Live Load Deflection	L/1103 (0.235")	32.6%	n/a	269	09-06-12
Total Neg. Defl.	L/999 (-0.051")	n/a	n/a	6	25-11-04

**1st Floor\Flush Beams\FB1(i59) (Flush Beam)**

Dry | 2 spans | No cant.

February 24, 2021 15:08:58

BC CALC® Member Report  
 Build 7493  
 Job name:  
 Address:  
 City, State, Zip:  
 Customer:  
 Code reports: ESR-1040

File name: 2100199A.mmdl  
 Description: 1st Floor\Flush Beams\FB1(i59)  
 Specifier:  
 Designer:  
 Company:

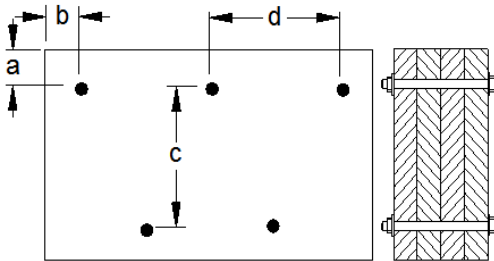
Controls Summary	Value	% Allowable	Duration	Case	Location
Max Defl.	0.483"	48.3%	n/a	6	09-06-12
Span / Depth	16.2				

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 7"	8094 lbs	77.7%	44.0%	Spruce-Pine-Fir
B2	Column 3-1/2" x 7"	16120 lbs	90.8%	87.7%	Unspecified
B3	Beam 3-1/2" x 7"	3640 lbs	19.8%	19.8%	VL 2.0 3100 SP

**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.  
 Calculations assume member is fully braced.  
 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.

**Connection Diagram: Full Length of Member**



a minimum = 2-1/2"      c = 11"  
 b minimum = 3-1/8"      d = 18"

Calculated Side Load = 762.3 lb/ft  
 Bolts are assumed to be Grade A307 or Grade 2 or higher.  
 Connectors are: 5/8 in. Staggered Through Bolt

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THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.

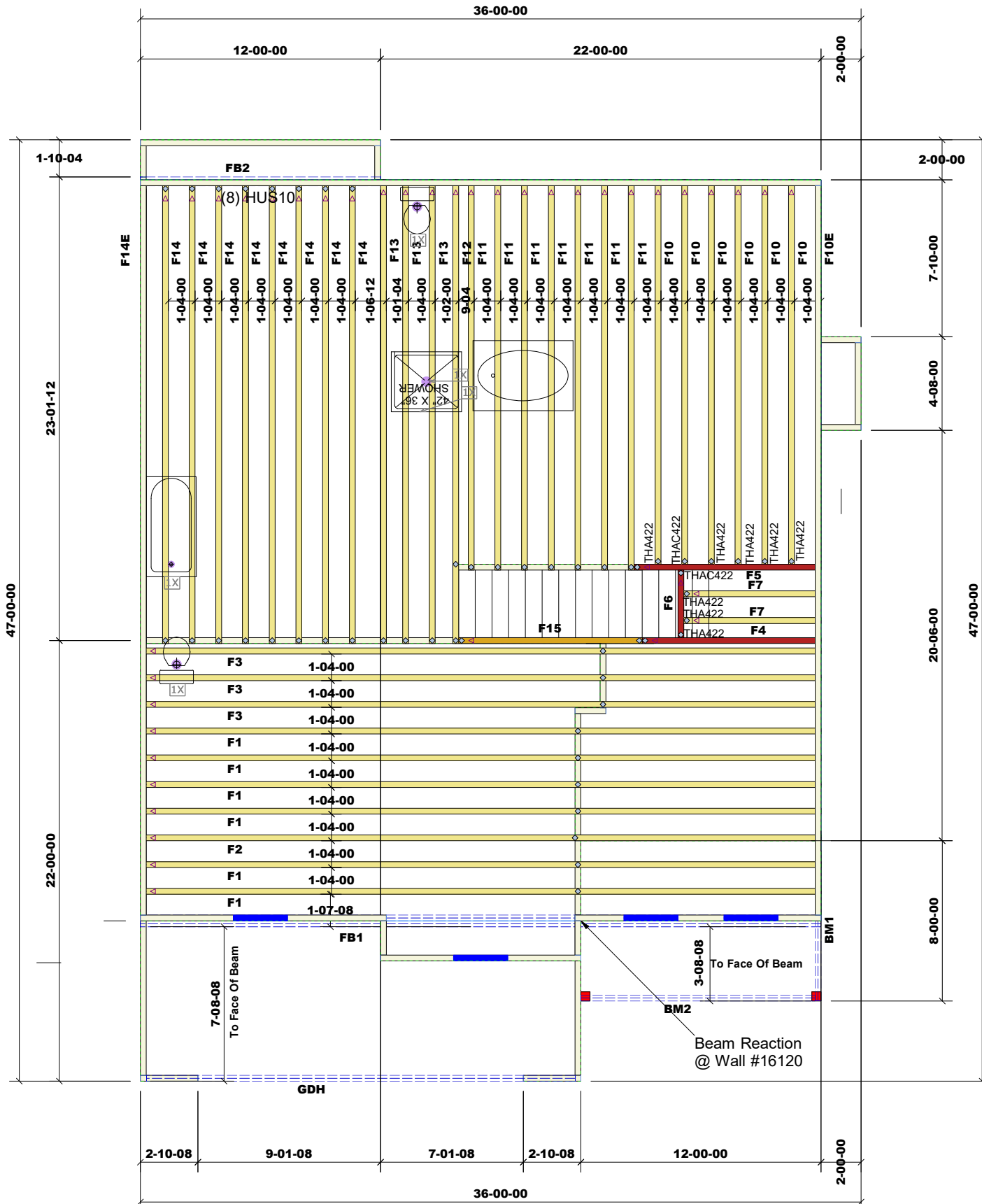


DEDICATED TO QUALITY AND EXCELLENCE  
200 EMMETT ROAD  
DUNN, NORTH CAROLINA 28334  
PHONE: 910-892-8400

PROJECT: **120 BEECHLEAF - SOUTHEASTERN**  
CUSTOMER: **Southeastern Construction**  
MODEL: **BOOHER SE-2171**  
QUOTE #: **2100199** PRINT DATE: **10/16/2017** SCALE: **N.T.S**  
DRAWN BY: **Rodney Evans**

TOP LIVE LOAD: 40.0 lb/ft²  
TOP DEAD LOAD: 10.0 lb/ft²  
BOTTOM LIVE LOAD:  
BOTTOM DEAD LOAD: 5.0 lb/ft²

GENERAL NOTES:  
- DO NOT CUT OR MODIFY TRUSSES  
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED  
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.  
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

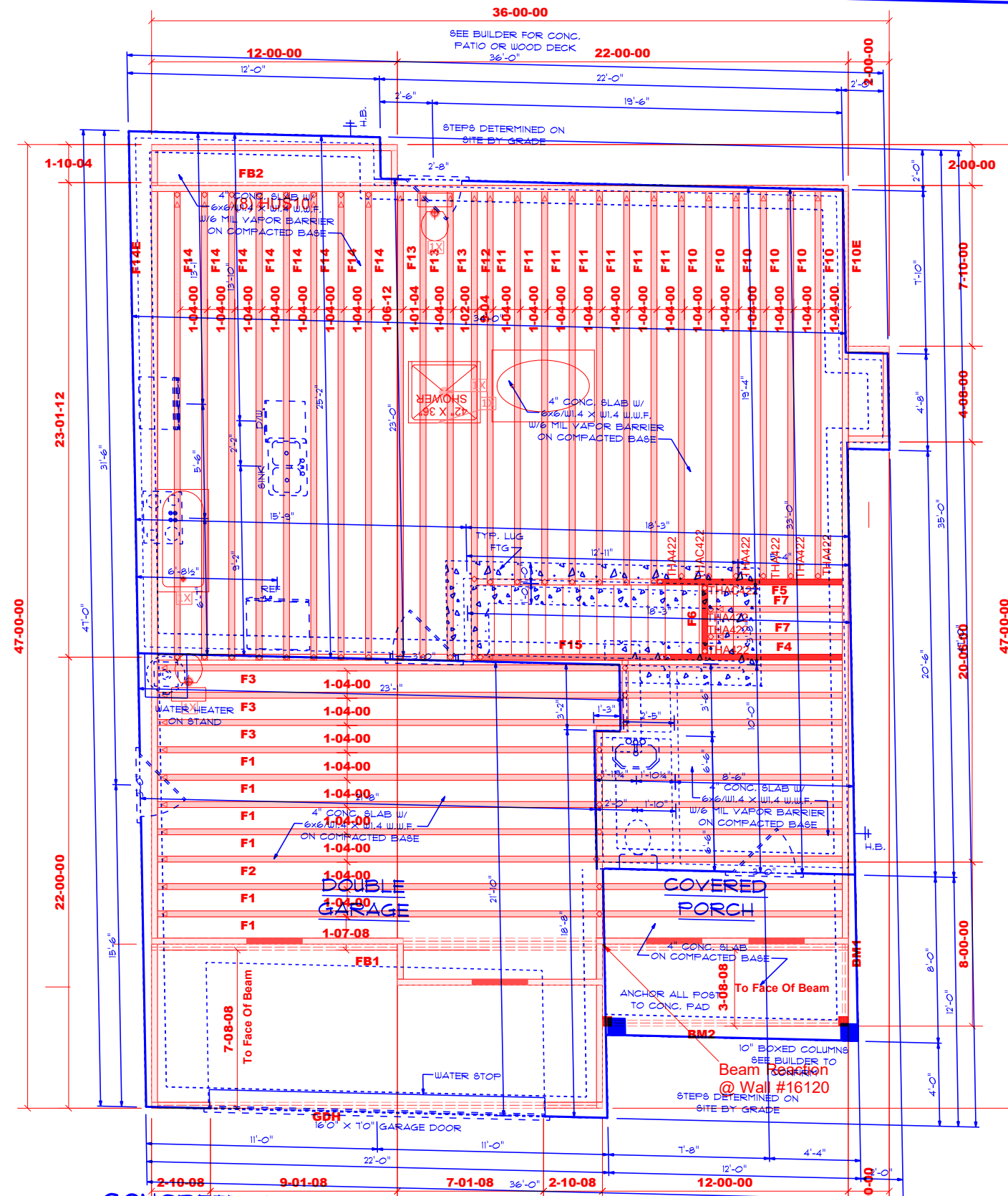


Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM2	12-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2	MFD
BM1	10-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2	MFD
GDH	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2	2	MFD
FB1	36-00-00	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	4	4	MFD
FB2	14-00-00	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	3	3	MFD

Crawl Level Floor Area	1st Level Floor Area	2nd Level Floor Area
0	1258	0



THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



**CONCRETE NOTES**

NOTES:  
 1) MINIMUM SOIL BEARING CAPACITY: 2000 psf.  
 2) CONCRETE COMPRESSIVE STRENGTH @ END OF 28 DAYS (MIN)  
 FOUNDATIONS, FOOTINGS, INTERIOR SLABS = 3000 psi  
 EXTERIOR SLAB (EXPOSED TO WEATHER) = 3500 psi

**FOUNDATION PLAN**

930 S/F ON FIRST FLOOR  
 1241 S/F ON SECOND FLOOR  
 2171 S/F TOTAL HEATED AREA

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

Product	Plies	Notes
BM2 12-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2
BM1 10-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2
GDH 22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2
FB1 36-00-00	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	4
FB2 14-00-00	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	3

I DO HEARBY CERTIFY THAT THIS DRAWING AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH THE INTERNATIONAL BUILDING CODE COUNCIL (2018 N.C. BUILDING CODE).

DESIGNED BY  
 GCP DESIGNS  
 HOPE MILLS, NORTH CAROLINA  
 WWW.GCP@MYWAY.COM

SOUTHEASTERN CONSTRUCTION

BOOHER  
 SE-2171



DEDICATED TO QUALITY AND EXCELLENCE  
 200 EMMETT ROAD  
 DUNN, NORTH CAROLINA 28334  
 PHONE: 910-892-8400

PROJECT: 120 BEECHLEAF - SOUTHEASTERN

CUSTOMER: Southeastern Construction

MODEL: BOOHER SE-2171

QUOTE #: 2100199

PRINT DATE: 10/16/2017

DRAWN BY: Rodney Evans

SCALE: N.T.S.

LOADS:

TOP LIVE LOAD: 40.0 lb/ft²

TOP DEAD LOAD: 10.0 lb/ft²

BOTTOM LIVE LOAD:

BOTTOM DEAD LOAD: 5.0 lb/ft²

GENERAL NOTES:

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- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
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Crawl Level Floor Area	1st Level Floor Area	2nd Level Floor Area
0	1258	0

SCALE: AS NOTED	SUBDIVISION
DATE: FEB. 2021	LOT NO.
DRAWN BY: GCP	NOTES: