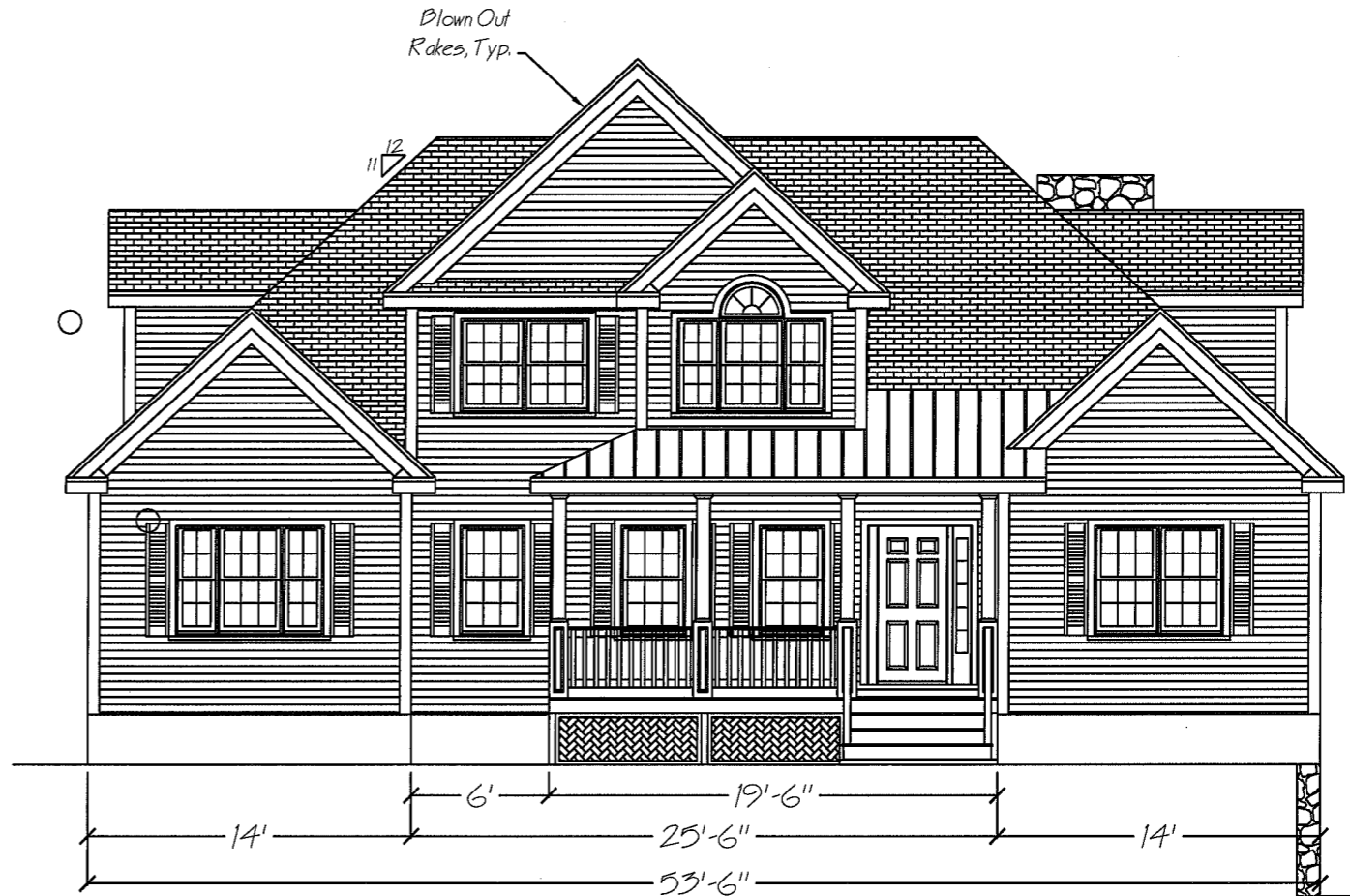


Proposed Left Elevation

Scale: 1/8" = 1'0"



Proposed Front Elevation

Scale: 1/8" = 1'0"

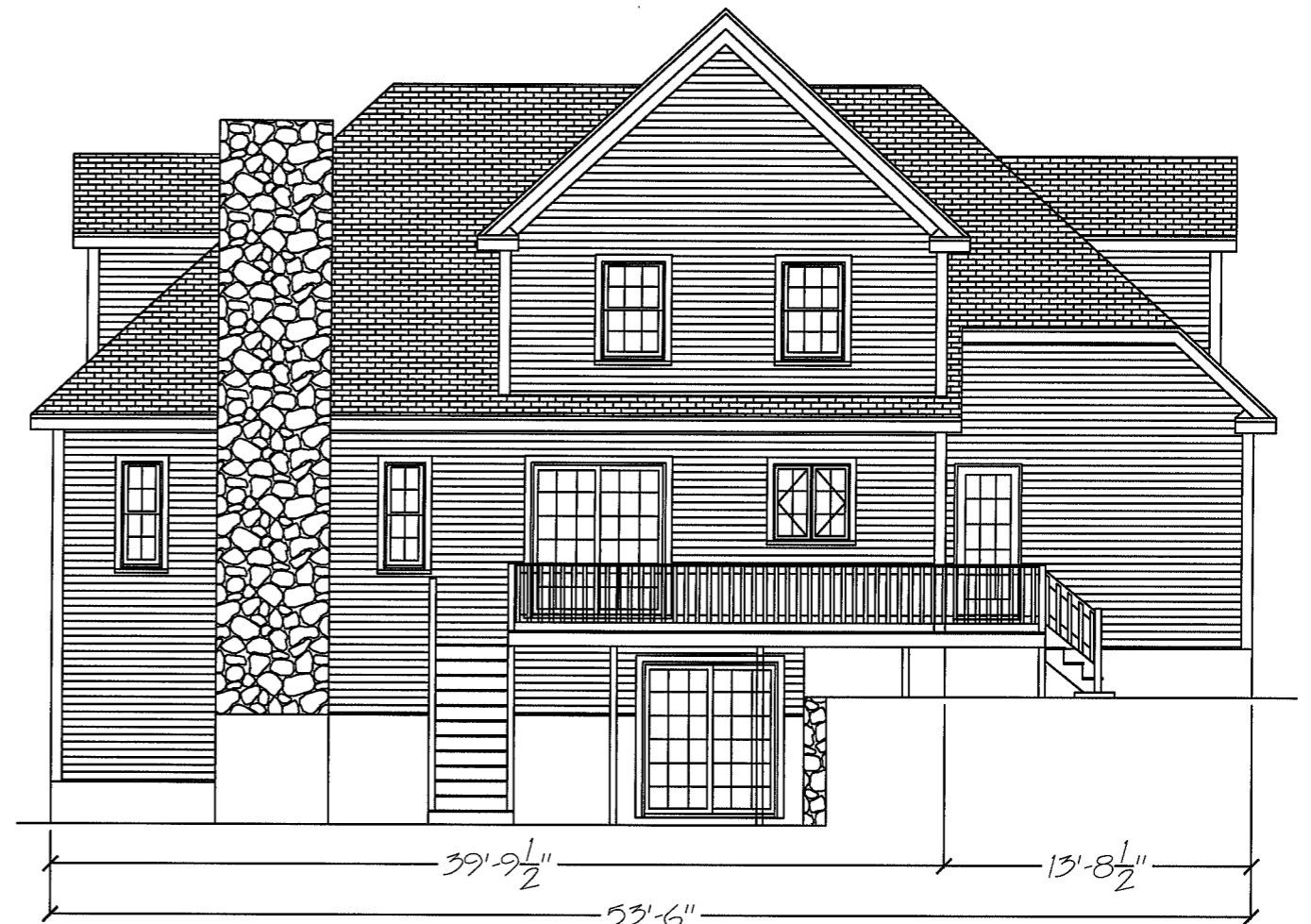
NOTE: These plans are intended for the use of a licensed contractor. It is the responsibility of the contractor to verify compliance with all local building codes. Homeowner/contractor to verify dimensions, proposed layout and building materials to be used prior to proceeding with construction.

SHT#: 1 of 12	Date: 1/01/2016	REV
Total Living Area Sq. Ft.:	Drawn by: KK	
Desc: New Custom Home	Checked by:	
Project: Sample Plan		



Proposed Right Elevation

Scale: 1/8" = 1'0"

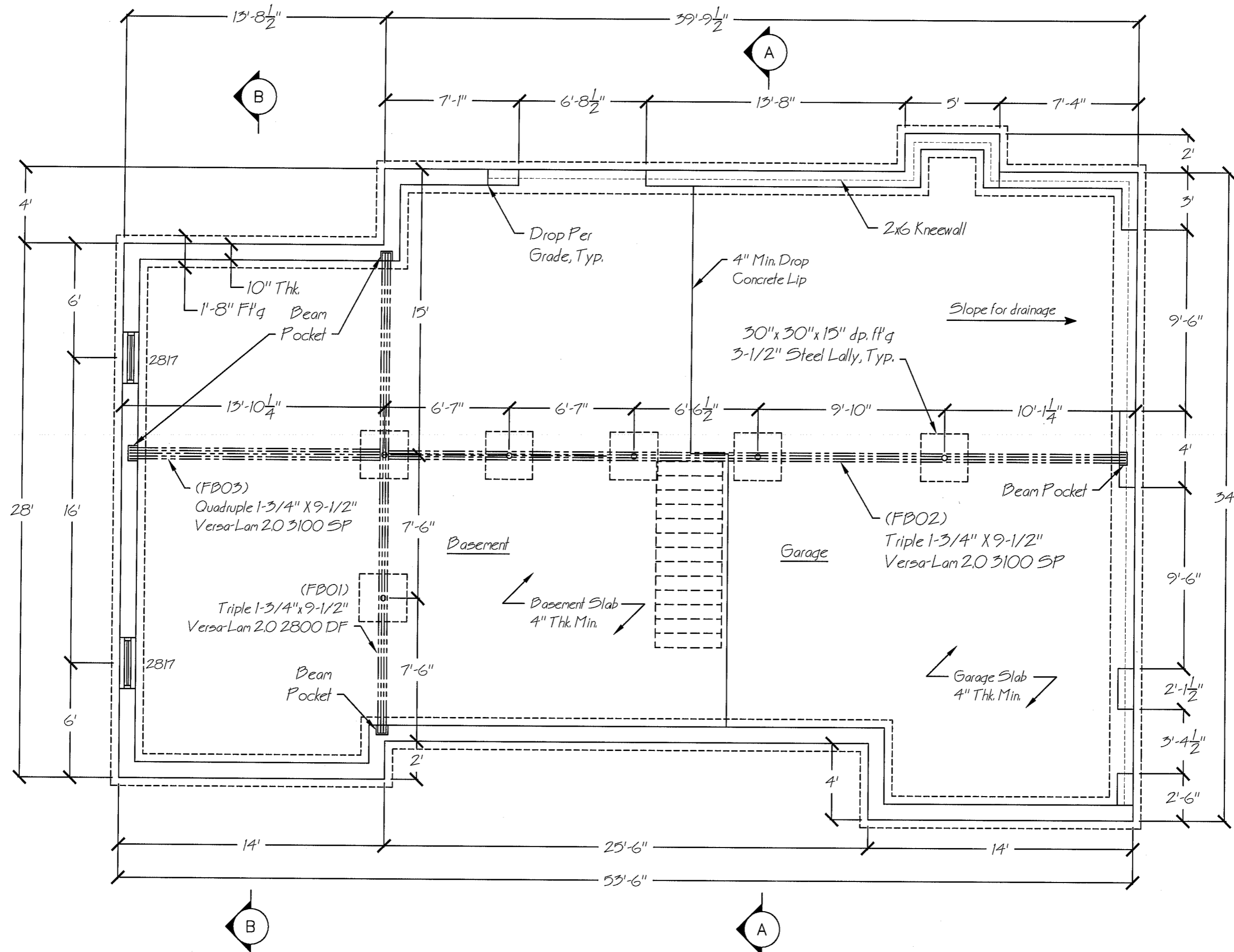


Proposed Rear Elevation

Scale: 1/8" = 1'0"

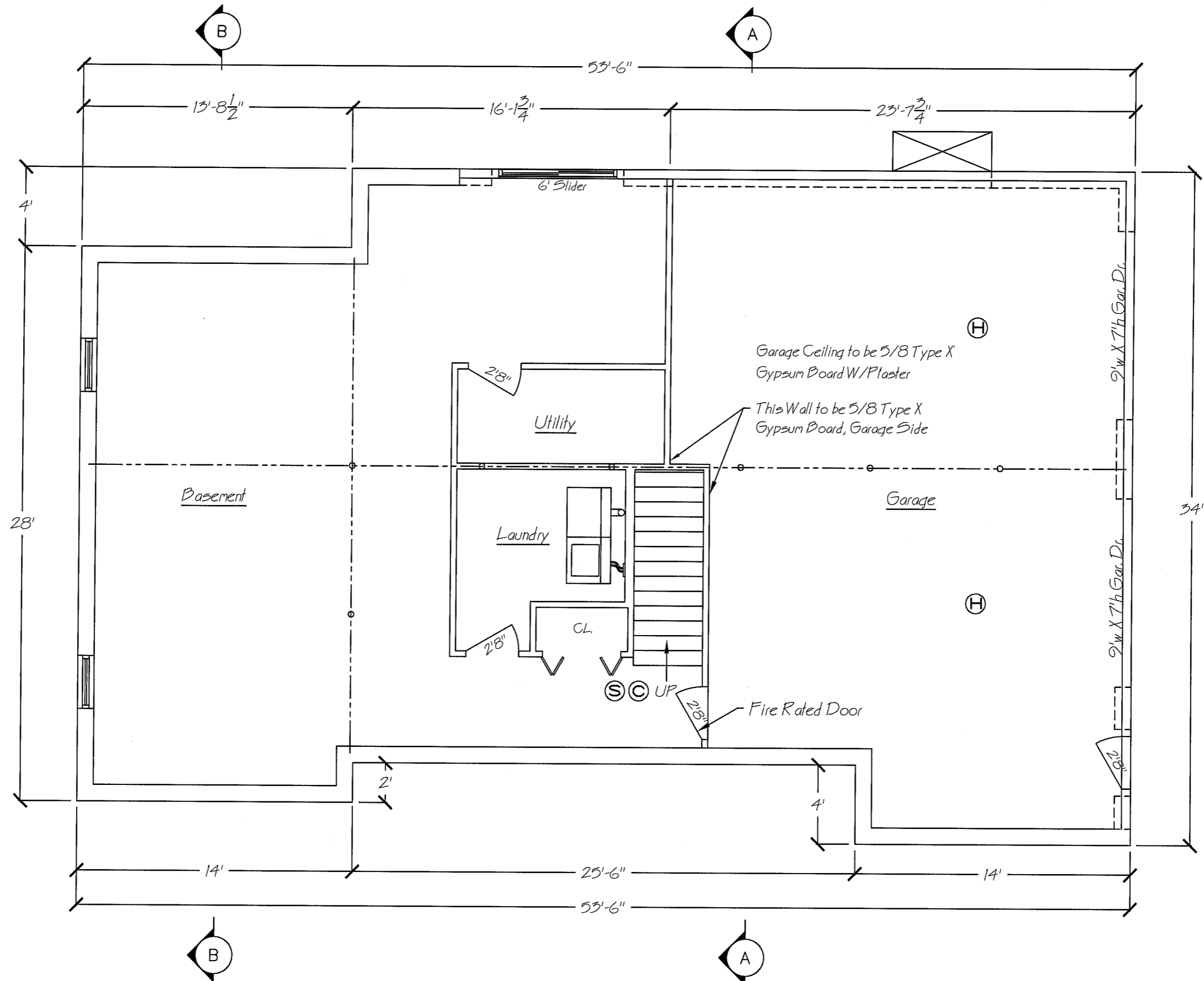
GENERAL NOTES:

1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.
2. ALL WORK SHALL BE COMPLETED IN COMPLIANCE WITH ALL APPLICABLE BUILDING, PLUMBING & ELECTRICAL CODES. ANY OTHER LOCAL, STATE AND / OR FEDERAL CODES THAT MAY APPLY TO THIS PROJECT SHALL BE CONSIDERED AS PART OF THE CONSTRUCTION DOCUMENTS.
3. ALL WASTE MATERIALS AND DEBRIS SHALL BE REMOVED AND DISPOSED OF PROPERLY.
4. ALL STRUCTURAL MATERIALS SHALL BE VOID OF ANY DEFECTS THAT DIMINISH THEIR CAPACITY TO FUNCTION IN AN ADEQUATE MANNER. STRUCTURAL ENGINEERING OR ANY OTHER PROFESSIONAL SERVICES THAT MAY BE REQUIRED SHALL BE PROVIDED BY OTHERS UNDER SEPERATE CONTRACT AND TERMS.
5. FRAMING LUMBER SHALL BE NO. 2 GRADE SPRUCE-PINE-FIR OR BETTER.
6. ALL PENETRATIONS (PLUMBING, ELECTRICAL, HEATING, ETC.) THRU FLOORS SHALL BE COMPLETELY FIRE CAULKED.
7. ALL POST SHALL BE CONTINUOUS TO FOUNDATION.
8. REFER TO BOISE SPECIFICATIONS AND CALCULATIONS FOR VERSA-LAM INSTALLATION.



NOTES:

1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

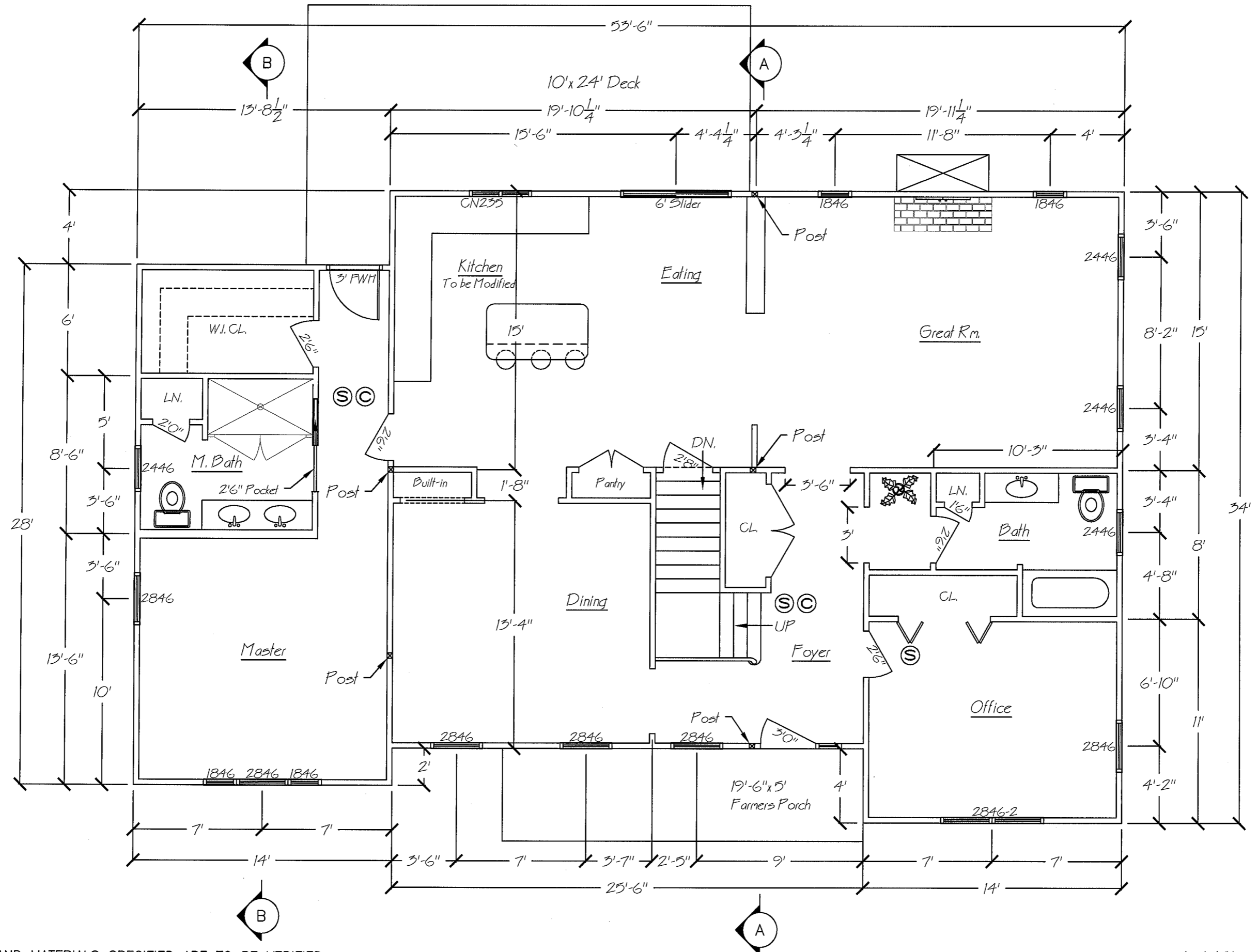


NOTES:

1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

Proposed Garage/Basement

Scale: 3/16" = 1'0"

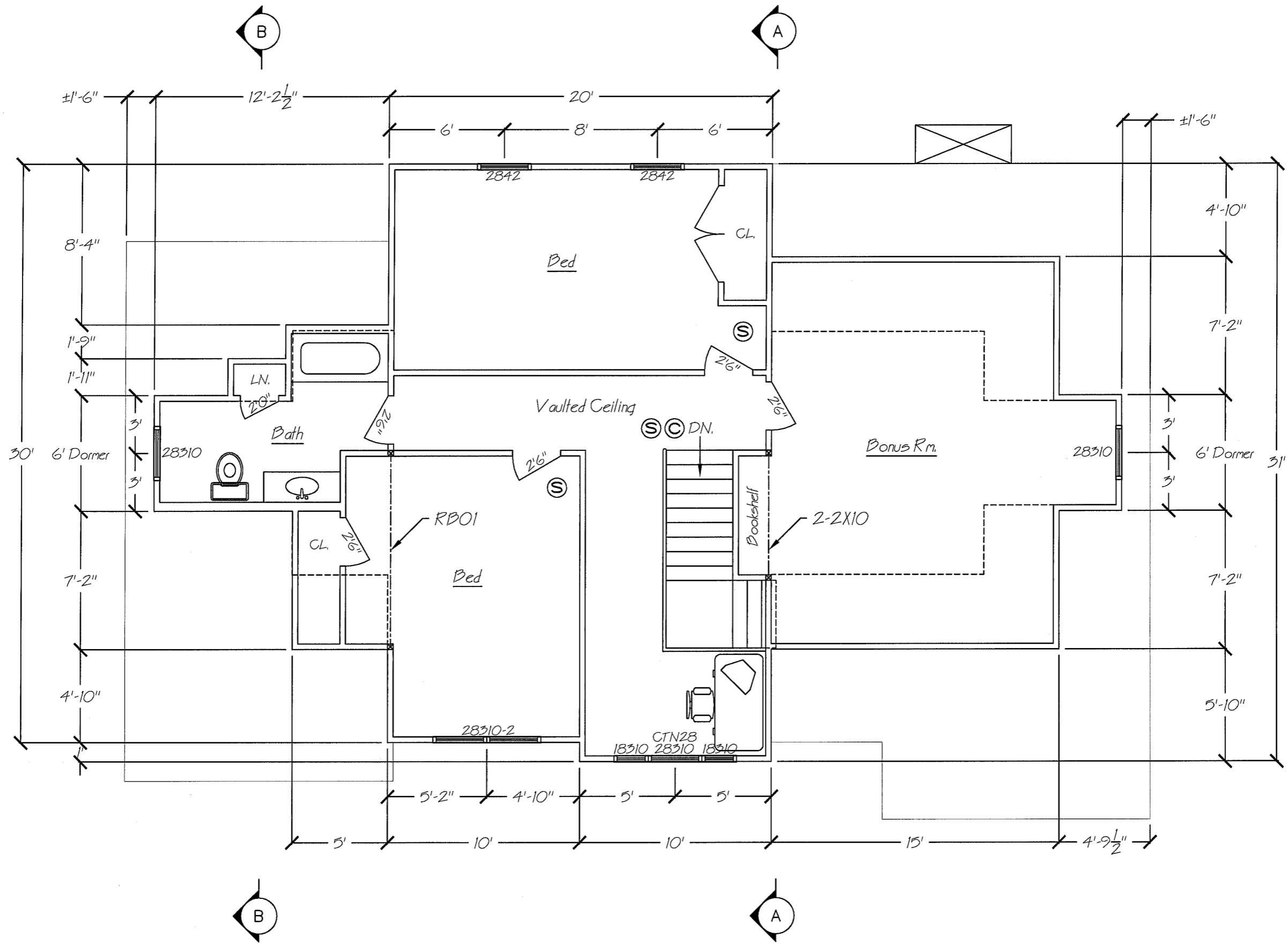


NOTES:

1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

1st Floor Proposed

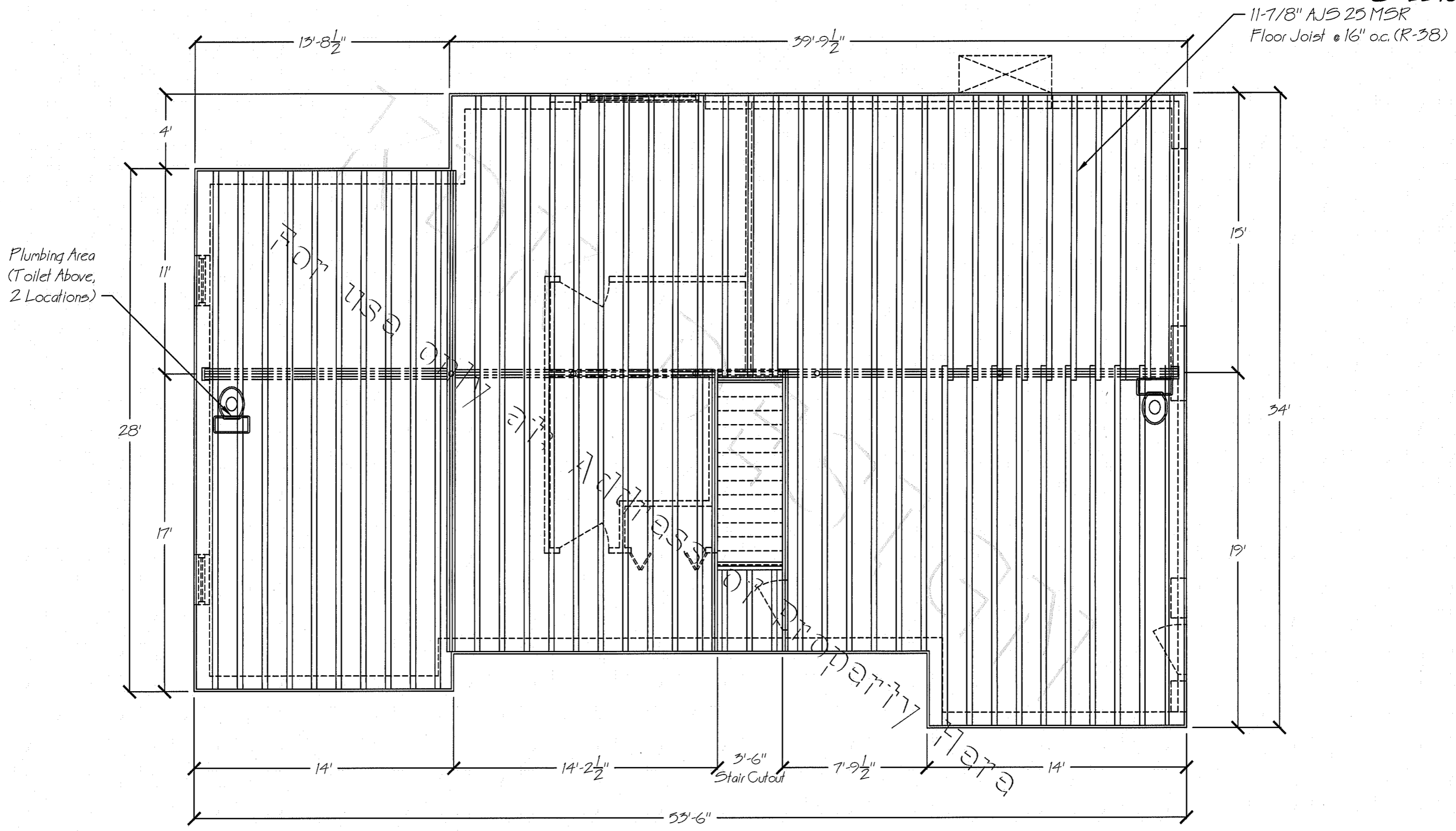
Scale: 3/16" = 1'0"



NOTES:

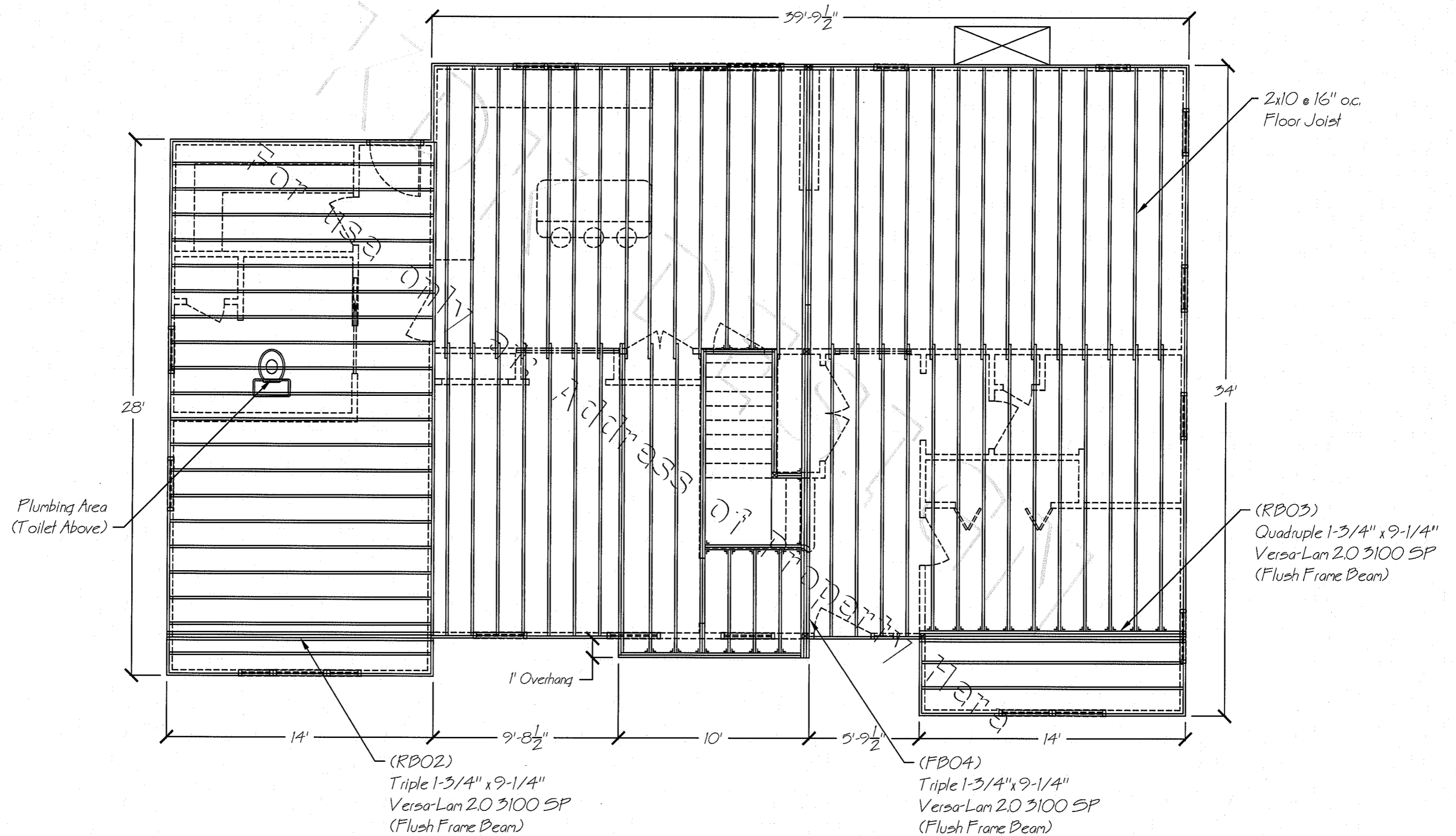
1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

2nd Floor Proposed
Scale: 3/16" = 1'0"



NOTES:

1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

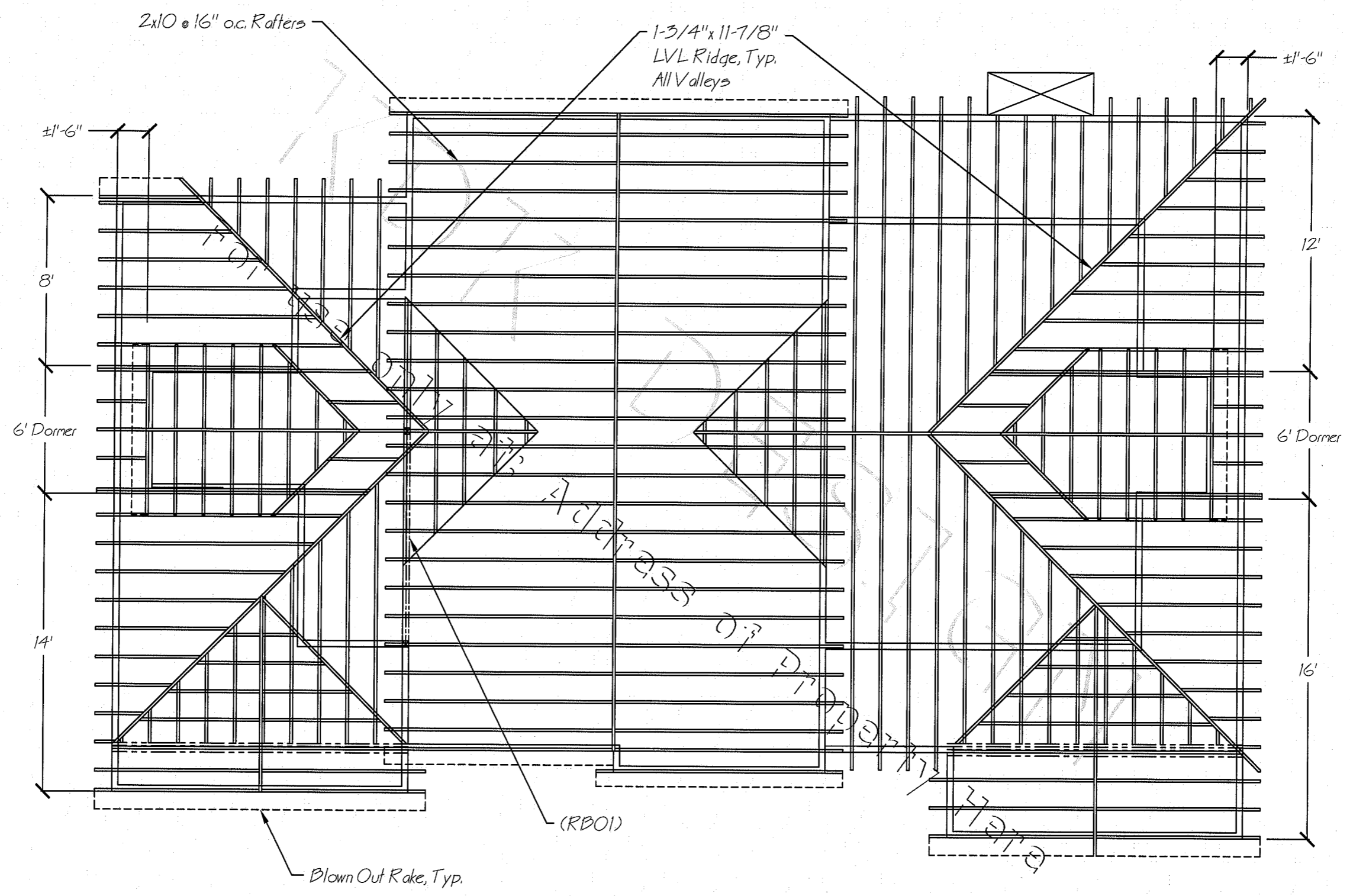


NOTES:

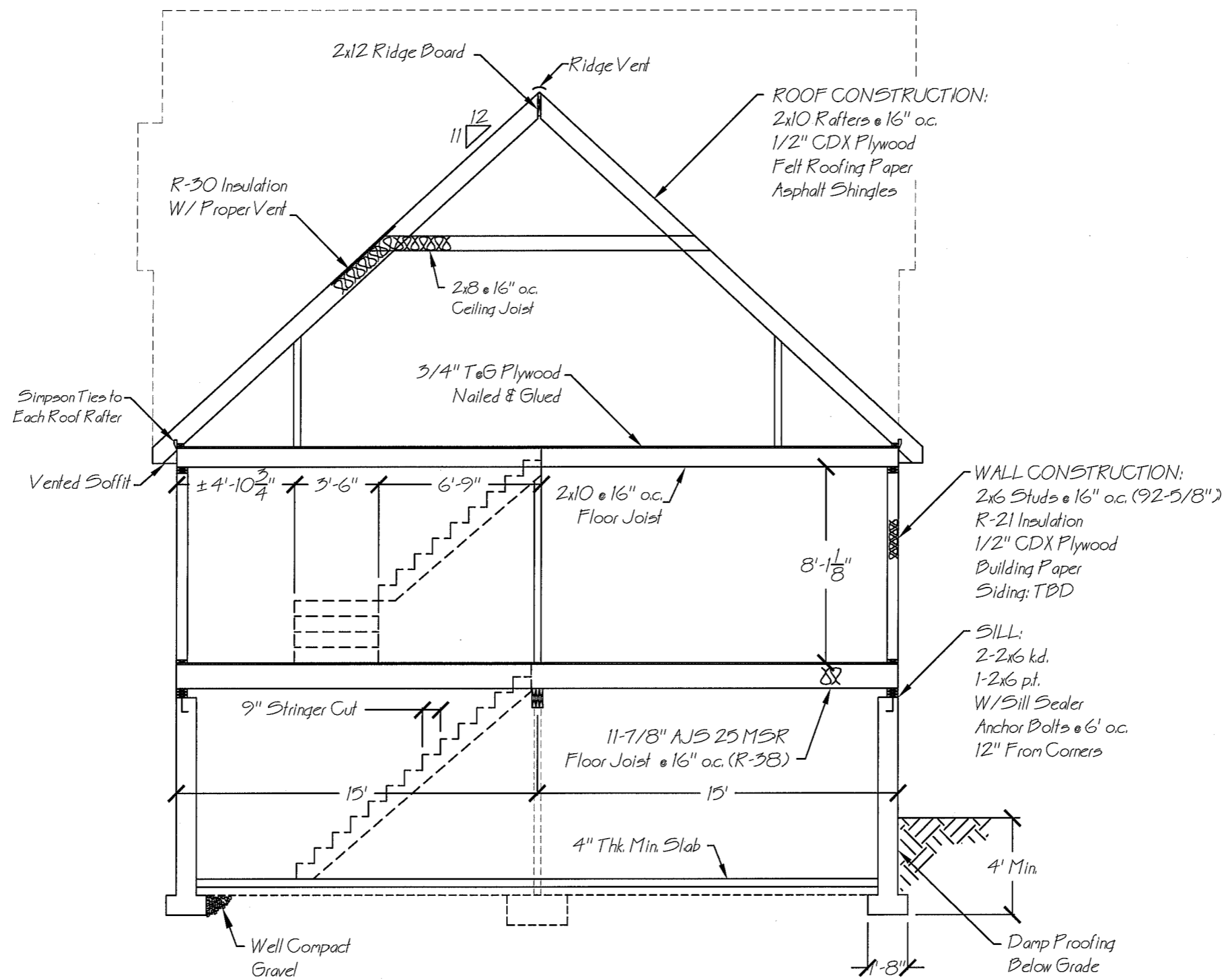
1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.

2nd Floor Framing

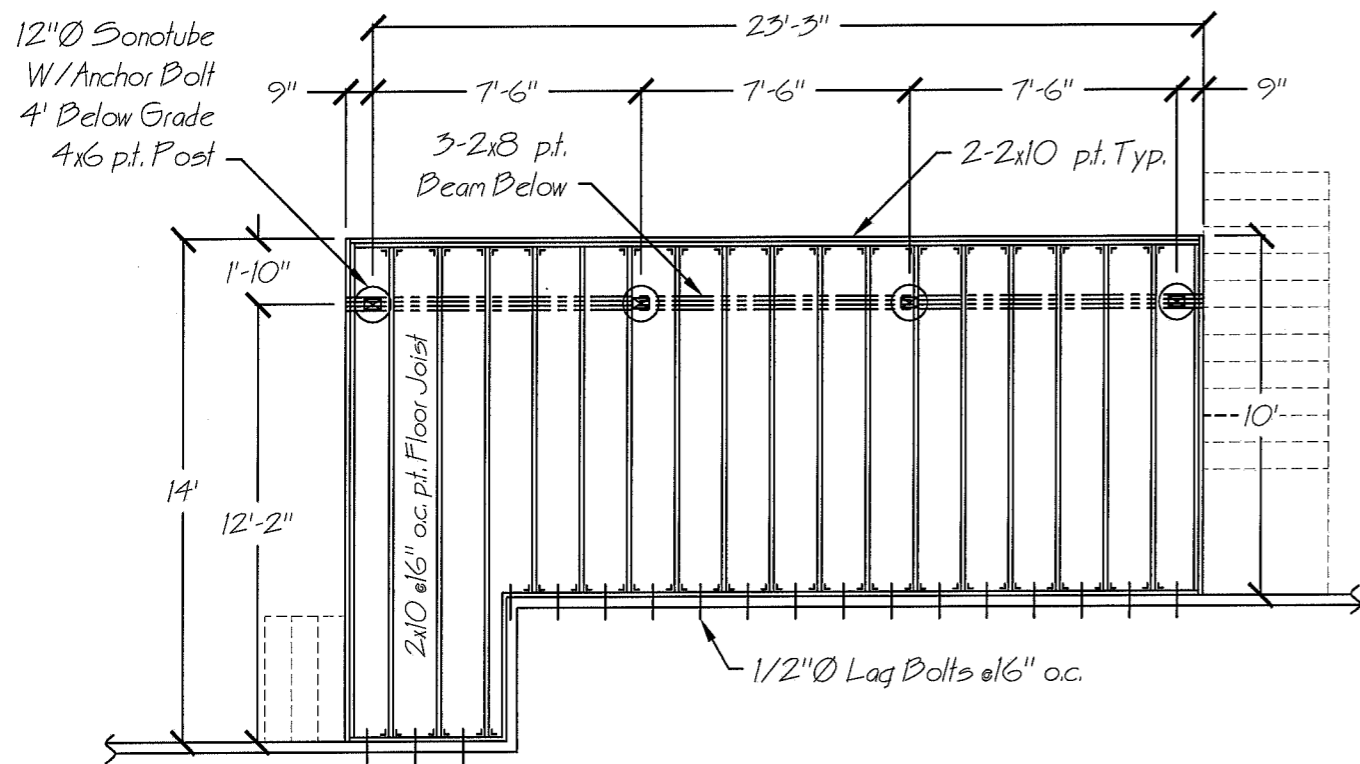
Scale: 3/16" = 1'0"



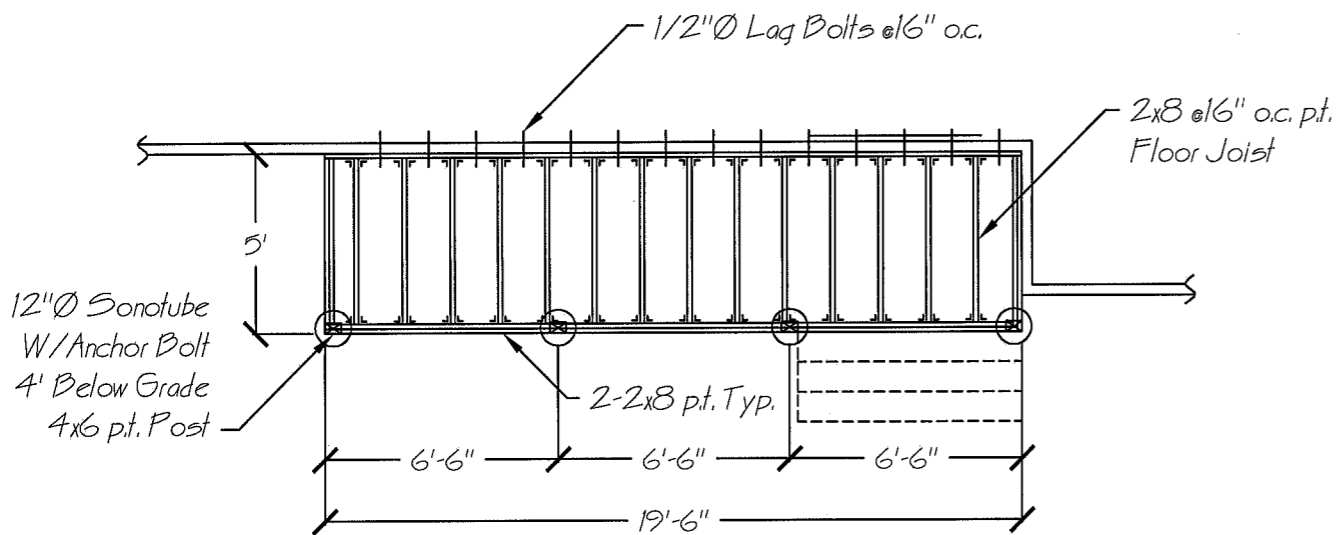
NOTES:
 1. ALL DIMENSIONS AND MATERIALS SPECIFIED ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY ADJUSTMENTS MADE ACCORDINGLY.



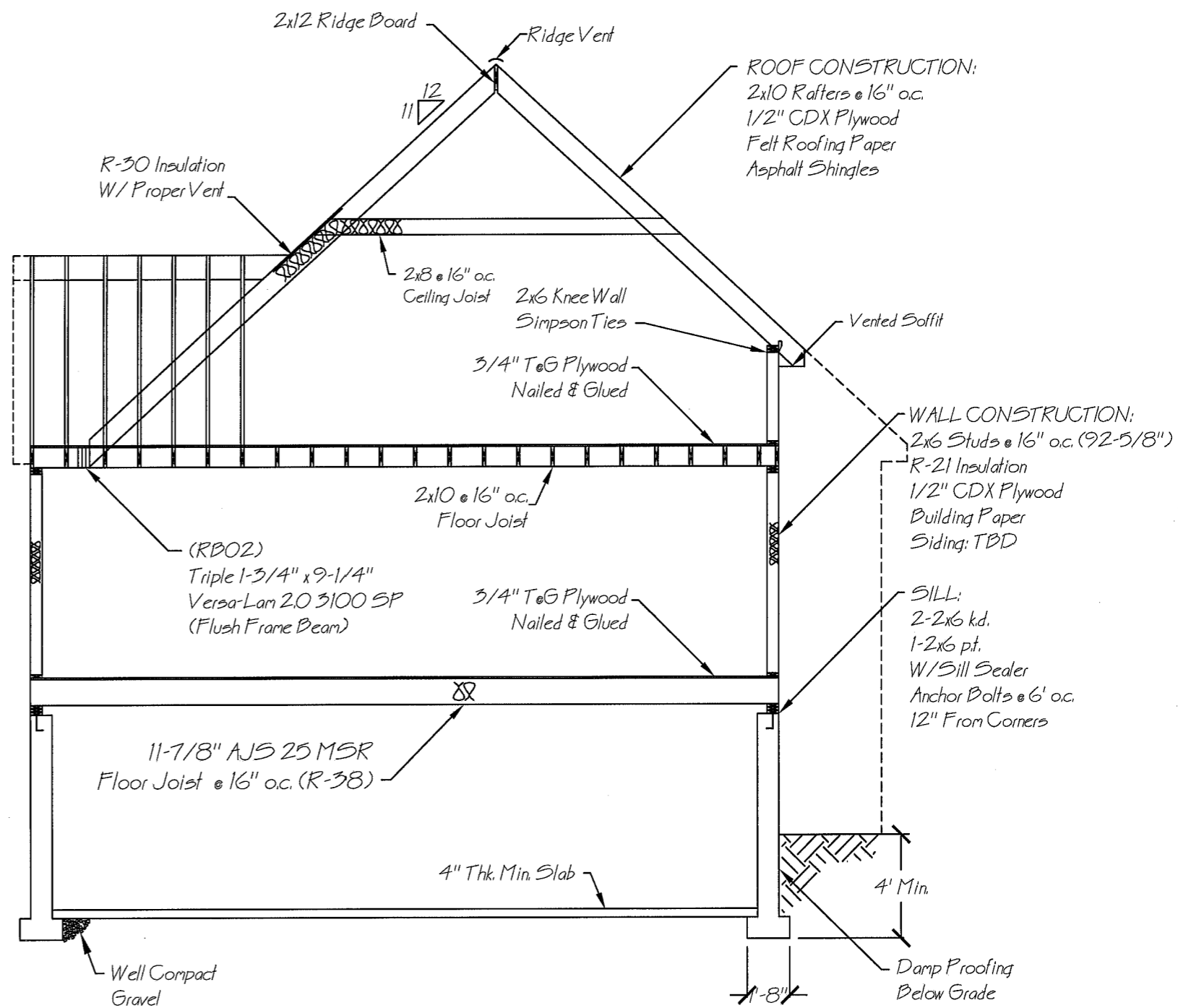
Cross Section A-A
 Scale: 3/16" = 1'0"



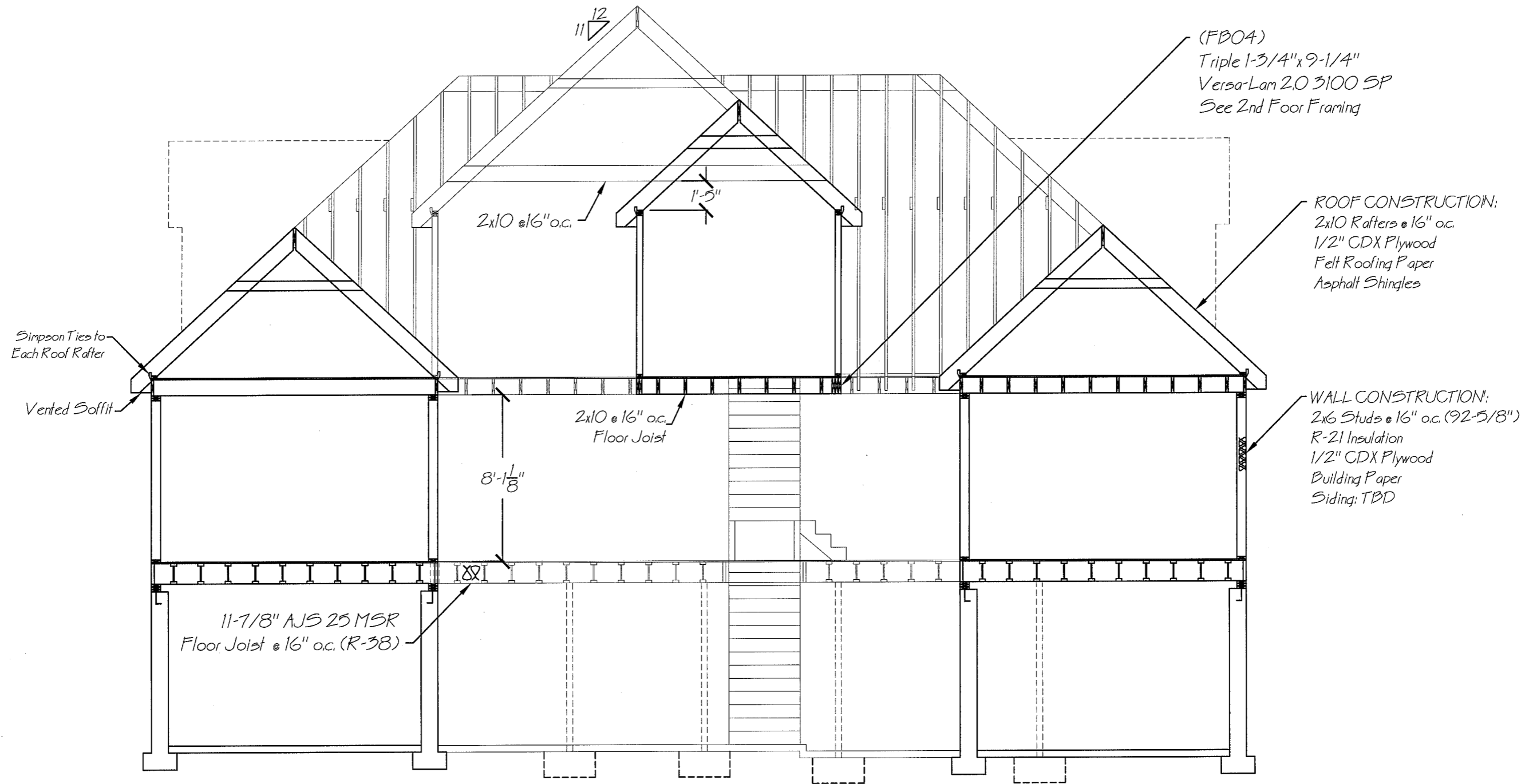
Deck Framing
Scale: 3/16" = 1'0"



Farmers Porch Framing
Scale: 1/4" = 1'0"



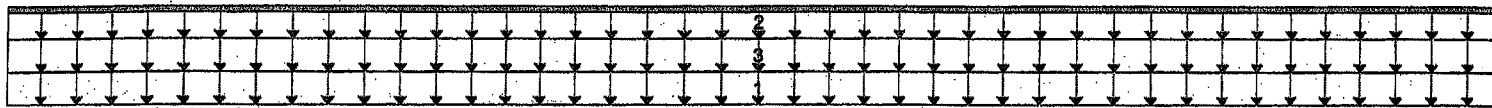
Cross Section B-B
Scale: 3/16" = 1'0"



Cross Section C-C
Scale: 3/16" = 1'0"

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: FB01
Specifier: Main Beam, Basement
Designer: KK
Company: KDK Design
Misc: See Foundation Plan & 1st Floor Framing



11-00-00

B0, 3-1/2"
LL 3080 lbs
DL 2772 lbs

B1, 3-1/2"
LL 3080 lbs
DL 2772 lbs

Total Horizontal Product Length = 11-00-00

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Live	Dead	Snow	Wind	Roof Live	Trib.
1	Roof Load	Unf. Area (psf)	Left	00-00-00	11-00-00	35	20				10-00-00
2	Wall Load	Unf. Lin. (plf)	Left	00-00-00	11-00-00	0	220				n/a
3	2nd Floor Load	Unf. Area (psf)	Left	00-00-00	11-00-00	30	10				07-00-00

Controls Summary

Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	14780 ft-lbs	70.6%	100%	1 - Internal
End Shear	4699 lbs	49.6%	100%	1 - Left
Total Load Defl.	L/321 (0.394")	74.8%		1
Live Load Defl.	L/610 (0.207")	59.0%		1
Max Defl.	0.394"	39.4%		1
Span / Depth	13.3	n/a		0

Disclosure

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Bearing Supports

Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post 3-1/2" x 3-1/2"	5852 lbs	n/a	63.7%	Unspecified
B1 Post 3-1/2" x 3-1/2"	5852 lbs	n/a	63.7%	Unspecified

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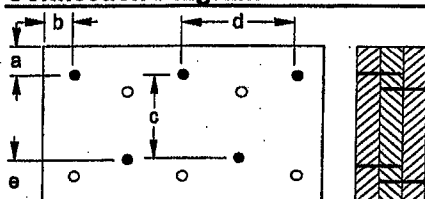
Cautions

Member is not fully supported at post B0. A connector is required at this bearing.
Column at Bearing B0 analyzed for bearing only, column analysis has not been performed.
Member is not fully supported at post B1. A connector is required at this bearing.
Column at Bearing B1 analyzed for bearing only, column analysis has not been performed.

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 load deflection criteria.

Connection Diagram

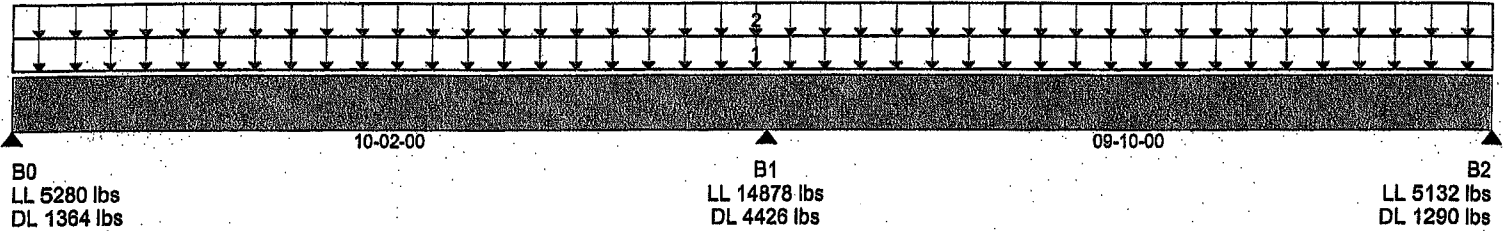


a minimum = 2" c = 4-1/2"
b minimum = 3" d = 12"
e minimum = 3"

Member has no side loads.
Connectors are: 16d Common Nails

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: FB02
Specifier: Main Beam, Basement
Designer: KK
Company: KDK Design
Misc: See Foundation Plan & 1st Floor Framing



Total of Horizontal Design Spans = 20-00-00

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 115%	Wind 133%	Roof Live 125%	Trib.
1	Standard Load	Unf. Area (psf)	Left	00-00-00	20-00-00	40	10				17-00-00
2	2nd Floor Load	Unf. Area (psf)	Left	00-00-00	20-00-00	30	10				17-00-00

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	14296 ft-lbs	68.3%	100%	14	1 - Internal
Neg. Moment	-19316 ft-lbs	92.3%	100%	1	1 - Right
End Shear	5309 lbs	56.0%	100%	14	1 - Left
Cont. Shear	8301 lbs	87.6%	100%	1	1 - Right
Total Load Defl.	L/388 (0.315")	61.9%		14	1
Live Load Defl.	L/459 (0.266")	78.4%		14	1
Total Neg. Defl.	-0.082"	16.4%		14	2
Max Defl.	0.315"	31.5%		14	1
Span / Depth	12.8	n/a		0	1

Disclosure

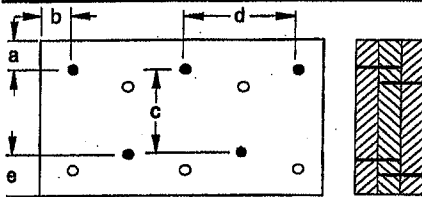
Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (888)234-0056 before installation.

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 load deflection criteria.
Minimum bearing length for B0 is 1-5/8".
Minimum bearing length for B1 is 4-7/8".
Minimum bearing length for B2 is 1-5/8".
Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing

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Connection Diagram

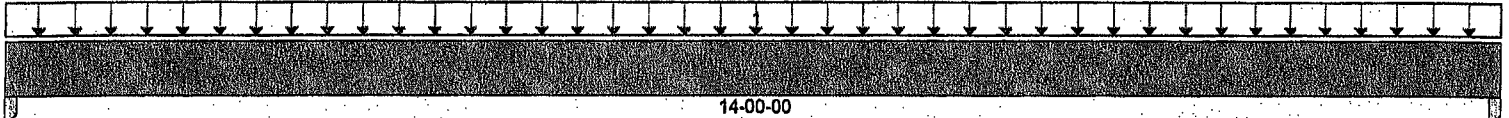


a minimum = 2" c = 4-1/2"
b minimum = 3" d = 12"
e minimum = 3"

Nailing schedule applies to both sides of the member.
Member has no side loads.
Connectors are: 16d Common Nails

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: RB02
Specifier: Roof Support Beam
Designer: KK
Company: KDK Design
Misc: See Roof Framing & Cross Section B-B



B0, 3-1/2"
DL 1671 lbs
SL 3150 lbs

B1, 3-1/2"
DL 1671 lbs
SL 3150 lbs

Total Horizontal Product Length = 14-00-00

Tag	Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 115%	Wind 133%	Roof Live 125%	Trib.
1	Standard Load	Unf. Area (psf)	Left	00-00-00	14-00-00		15	30			15-00-00

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	15785 ft-lbs	69.0%	115%	3	1 - Internal
End Shear	4089 lbs	38.5%	115%	3	1 - Left
Total Load Defl.	L/216 (0.752")	83.3%		3	1
Live Load Defl.	L/331 (0.492")	72.6%		3	1
Max Defl.	0.752"	75.2%		3	1
Span / Depth	17.6	n/a		0	1

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3-1/2" x 3-1/2"	4821 lbs	n/a	52.5%	Unspecified
B1 Post	3-1/2" x 3-1/2"	4821 lbs	n/a	52.5%	Unspecified

Cautions

Member is not fully supported at post B0. A connector is required at this bearing.
Column at Bearing B0 analyzed for bearing only, column analysis has not been performed.
Member is not fully supported at post B1. A connector is required at this bearing.
Column at Bearing B1 analyzed for bearing only, column analysis has not been performed.
For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.
For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.
Design meets Code minimum (L/240) Live load deflection criteria.
Design meets arbitrary (1") Maximum load deflection criteria.
Member Slope = 0, consider drainage.

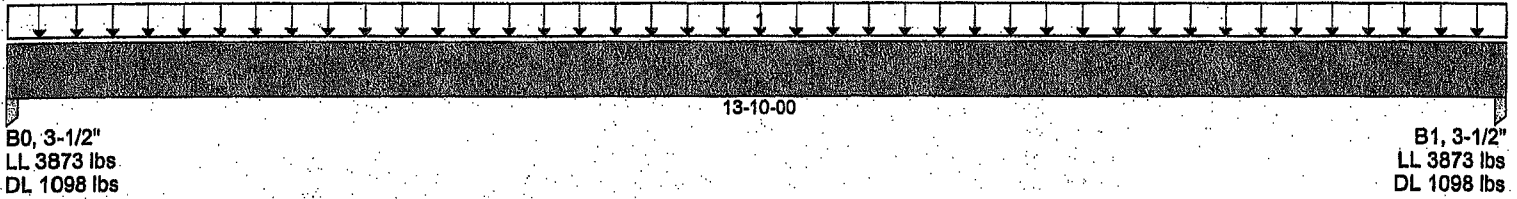
Disclosure

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Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: FB03
Specifier: Main Beam, Basement
Designer: KK
Company: KDK Design
Misc: See Foundation Plan & 1st Floor Framing



Total Horizontal Product Length = 13-10-00

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Live	Dead	Snow	Wind	Roof Live	Trib.
1	Standard Load	Unf. Area (psf)	Left	00-00-00	13-10-00	40	10	115%	133%	125%	14-00-00

Controls Summary

Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment 16071 ft-lbs	57.6%	100%	1	1 - Internal
End Shear 4192 lbs	33.2%	100%	1	1 - Left
Total Load Defl. L/310 (0.517")	77.4%		1	1
Live Load Defl. L/398 (0.403")	90.4%		1	1
Max Defl. 0.517"	51.7%		1	1
Span / Depth 16.9	n/a		0	1

Disclosure

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Bearing Supports

Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post 3-1/2" x 3-1/2"	4971 lbs	n/a	54.1%	Unspecified
B1 Post 3-1/2" x 3-1/2"	4971 lbs	n/a	54.1%	Unspecified

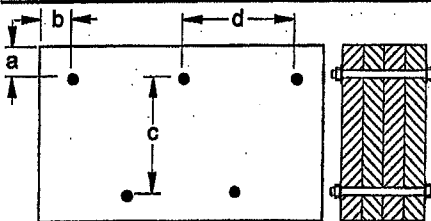
Cautions

Member is not fully supported at post B0. A connector is required at this bearing. Column at Bearing B0 analyzed for bearing only, column analysis has not been performed. Member is not fully supported at post B1. A connector is required at this bearing. Column at Bearing B1 analyzed for bearing only, column analysis has not been performed.

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 load deflection criteria.

Connection Diagram

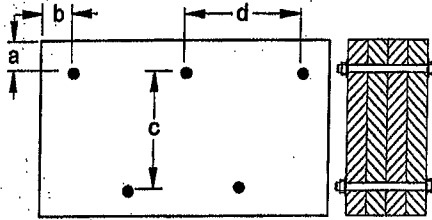


a minimum = 2" c = 5-1/2"
b minimum = 2-1/2" d = 24"

Member has no side loads.
Connectors are: 1/2 In. Staggered Through Bolt

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: RB03
Specifier: Roof Support Beam
Designer: KK
Company: KDK Design
Misc: See Roof Framing & Cross Section B-B

Connection Diagram

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

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.
Bolts are assumed to be Grade A307 or Grade 2 or higher.
Member has no side loads.
Connectors are: 1/2 in. Staggered Through Bolt

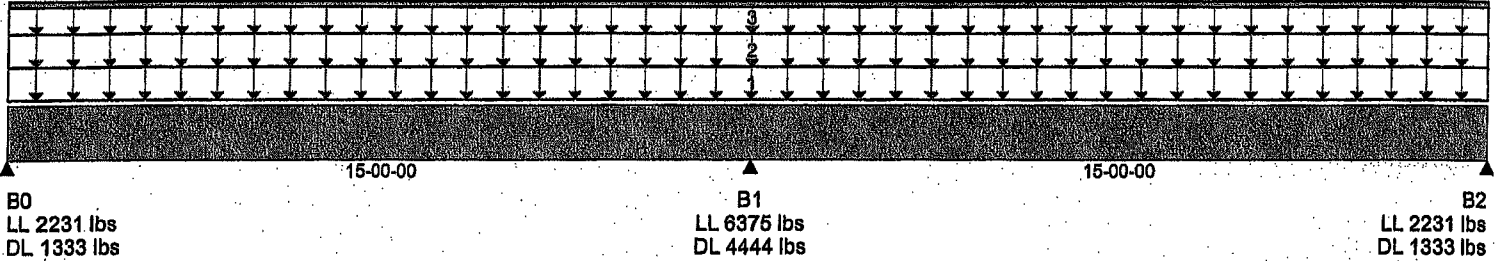
Disclosure

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Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: FB04
Specifier: Roof Support Beam
Designer: KK
Company: KDK Design
Misc: See 2nd Floor Framing & Cross Section C-C



Total of Horizontal Design Spans = 30-00-00

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 115%	Wind 133%	Roof Live 125%	Trlb.
1	Roof Load	Unf. Area (psf)	Left	00-00-00	30-00-00	30	10				10-00-00
2	2nd Floor Load	Unf. Area (psf)	Left	00-00-00	30-00-00	30	10				01-04-00
3	Wall Load	Unf. Lin. (plf)	Left	00-00-00	30-00-00	0	110				n/a

Controls Summary

	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	11009 ft-lbs	55.3%	100%	16	2 - Internal
Neg. Moment	-16228 ft-lbs	81.5%	100%	1	2 - Left
End Shear	3077 lbs	33.4%	100%	14	1 - Left
Cont. Shear	4880 lbs	52.9%	100%	1	1 - Right
Total Load Defl.	L/325 (0.553")	73.8%		16	2
Live Load Defl.	L/460 (0.391")	78.2%		16	2
Total Neg. Defl.	-0.077"	15.4%		14	2
Max Defl.	0.553"	55.3%		16	2
Span / Depth	19.5	n/a		0	1

Disclosure

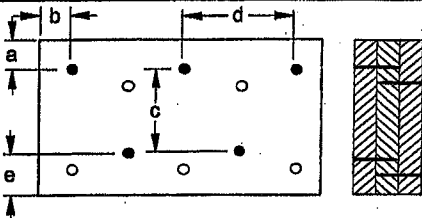
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Notes

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 load deflection criteria.
Minimum bearing length for B0 is 1-1/2".
Minimum bearing length for B1 is 3".
Minimum bearing length for B2 is 1-1/2".
Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing

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Connection Diagram

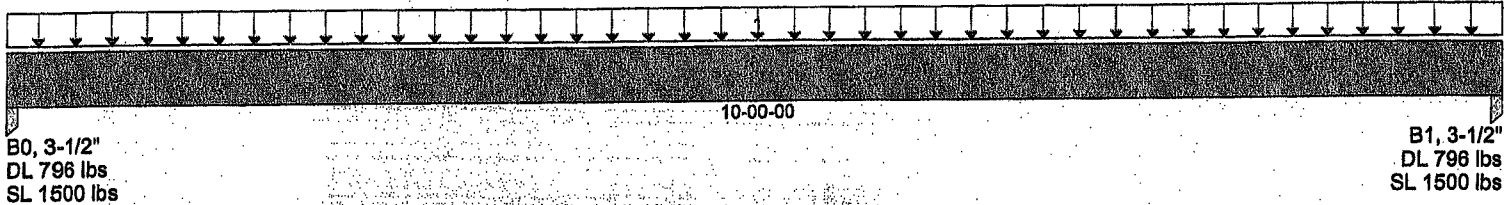


a minimum = 2" c = 4-1/4"
b minimum = 3" d = 12"
e minimum = 3"

Nailing schedule applies to both sides of the member.
Member has no side loads.
Connectors are: 16d Common Nails

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: RB01
Specifier: Roof Support Beam
Designer: KK
Company: KDK Design
Misc: See 2nd Floor Proposed & Cross Section C-C



Total Horizontal Product Length = 10-00-00

Load Summary					Live	Dead	Snow	Wind	Roof Live		
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	Trlb.
1	Standard Load	Unf. Area (psf)	Left	00-00-00	10-00-00		15	30			10-00-00

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	5225 ft-lbs	34.2%	115%	3	1 - Internal
End Shear	1808 lbs	25.6%	115%	3	1 - Left
Total Load Defl.	L/617 (0.185")	29.2%		3	1
Live Load Defl.	L/945 (0.121")	25.4%		3	1
Max Defl.	0.185"	18.5%		3	1
Span / Depth	12.4	n/a		0	1

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (888)234-0056 before installation.

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3-1/2" x 3-1/2"	2296 lbs	n/a	25.0%	Unspecified
B1 Post	3-1/2" x 3-1/2"	2296 lbs	n/a	25.0%	Unspecified

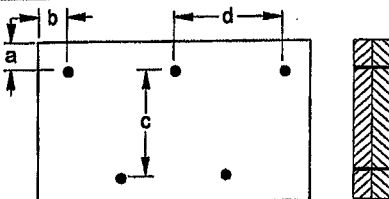
Cautions

Column at Bearing B0 analyzed for bearing only, column analysis has not been performed.
Column at Bearing B1 analyzed for bearing only, column analysis has not been performed.
For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.
For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.
Design meets Code minimum (L/240) Live load deflection criteria.
Design meets arbitrary (1") Maximum load deflection criteria.
Member Slope = 0, consider drainage.

Connection Diagram

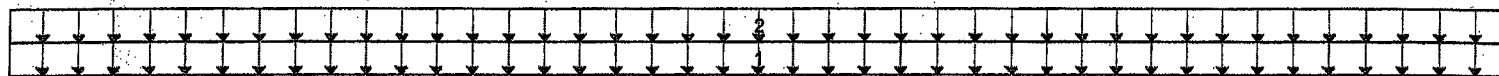


a minimum = 2" c = 5-1/4"
b minimum = 3" d = 12"

Member has no side loads.
Connectors are: 16d Common Nails

Job Name:
Address:
City, State, Zip:
Customer:
Code reports: ESR-1040

File Name:
Description: RB03
Specifier: Roof Support Beam
Designer: KK
Company: KDK Design
Misc: See Roof Framing & Cross Section B-B



B0, 3-1/2" LL 1575 lbs DL 1702 lbs SL 3150 lbs
14-00-00
B1, 3-1/2" LL 1575 lbs DL 1702 lbs SL 3150 lbs

Total Horizontal Product Length = 14-00-00

Tag	Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 115%	Wind 133%	Roof Live 125%	Trlb.
1	Standard Load	Unf. Area (psf)	Left	00-00-00	14-00-00		10	30			15-00-00
2	Floor Load	Unf. Area (psf)	Left	00-00-00	14-00-00	30	10				07-06-00

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	21047 ft-lbs	69.0%	115%	2	1 - Internal
End Shear	5452 lbs	38.5%	115%	2	1 - Left
Total Load Defl.	L/216 (0.752")	83.3%		2	1
Live Load Defl.	L/294 (0.553")	81.7%		2	1
Max Defl.	0.752"	75.2%		2	1
Span / Depth	17.6	n/a		0	1

Disclosure

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3-1/2" x 3-1/2"	6427 lbs	n/a	70.0%	Unspecified
B1 Post	3-1/2" x 3-1/2"	6427 lbs	n/a	70.0%	Unspecified

Cautions

Member is not fully supported at post B0. A connector is required at this bearing. Column at Bearing B0 analyzed for bearing only, column analysis has not been performed. Member is not fully supported at post B1. A connector is required at this bearing. Column at Bearing B1 analyzed for bearing only, column analysis has not been performed. For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur. For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.
Design meets Code minimum (L/240) Live load deflection criteria.
Design meets arbitrary (1") Maximum load deflection criteria.
Member Slope = 0, consider drainage.

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Job Name:
Address:
City, State, Zip.
Customer:
Code reports: ESR-1144

File Name:
Description: J01
Specifier: Floor Joist
Designer: KK
Company: KDK Design
Misc: See 1st Floor Framing



B0, 2-1/2"
LL 507 lbs
DL 127 lbs

B1, 2-1/2"
LL 507 lbs
DL 127 lbs

Total Horizontal Product Length = 19-00-00

Load Summary					Live	Dead	Snow	Wind	Roof Live	OCS	
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	16"
1	Standard Load	Unf. Area (psf)	Left	00-00-00	19-00-00	40	10				

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	2917 ft-lbs	46.8%	100%	1	1 - Internal
End Reaction	619 lbs	48.9%	100%	1	1 - Right
Total Load Defl.	L/646 (0.348")	37.2%		1	1
Live Load Defl.	L/807 (0.278")	59.5%		1	1
Max Defl.	0.348"	34.8%		1	1
Span / Depth	18.9	n/a		0	1

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 2-1/2" x 3-1/2"	633 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 2-1/2" x 3-1/2"	633 lbs	n/a	n/a	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.
Design meets User specified (L/480) Live load deflection criteria.
Design meets arbitrary (1") Maximum load deflection criteria.
Composite EI value based on 23/32" thick sheathing glued and nailed to joist.

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