

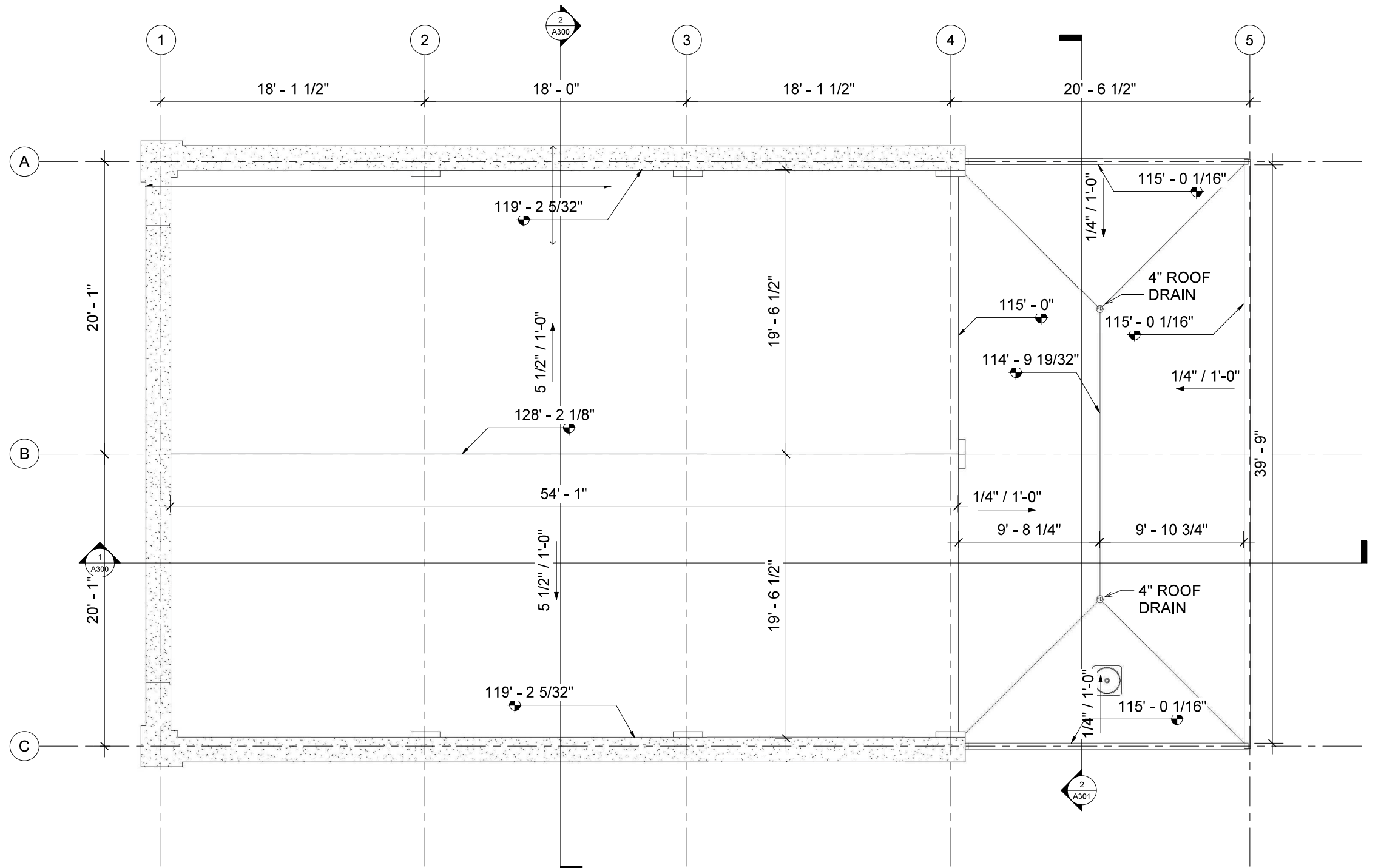


Power Plant No. 1 Adaptive Reuse  
City of Stoughton  
Stoughton, Wisconsin  
Sheet Title:  
A103 Roof Plan

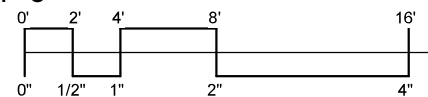
Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

Graphic Scale:	1/4" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020

Sheet Number	<b>A103</b>
Project number	2020.01



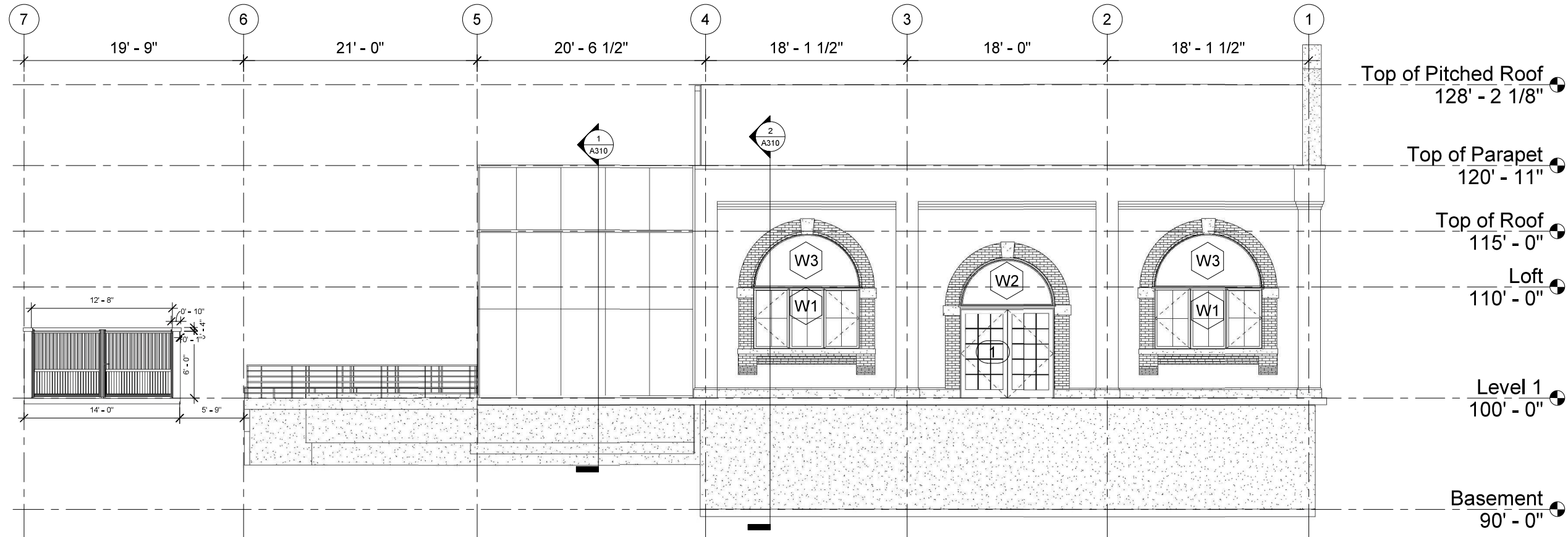
1 Top of Pitched Roof  
1/4" = 1'-0"



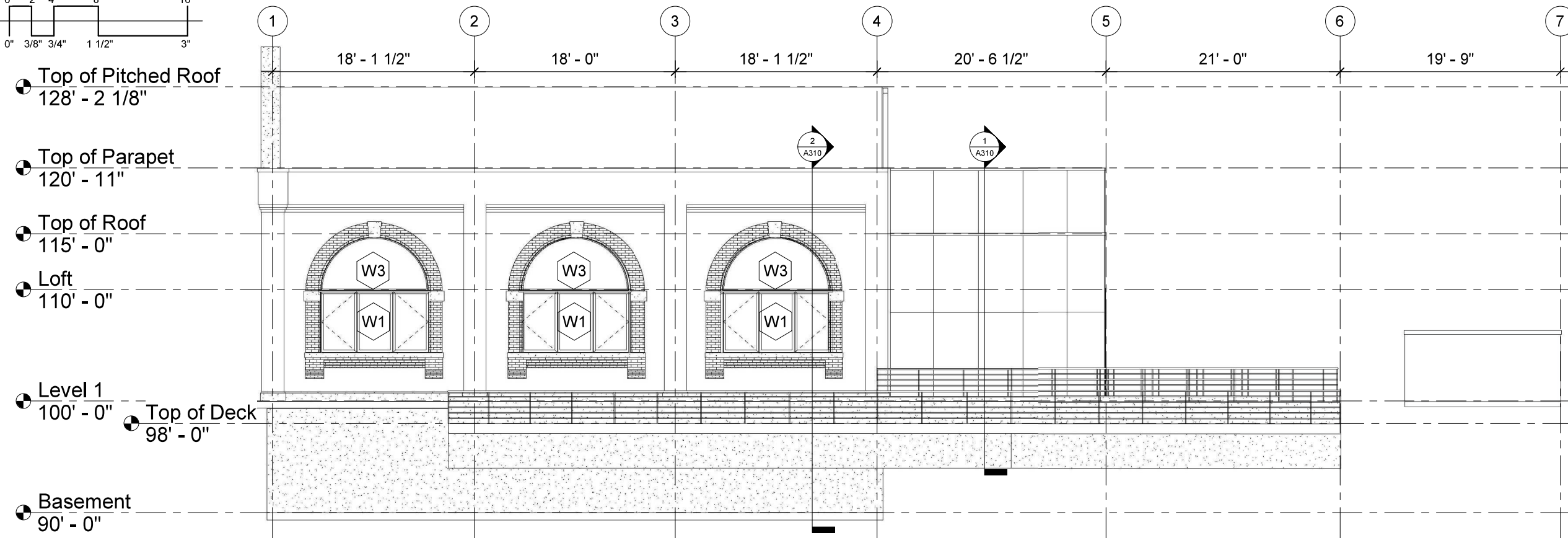
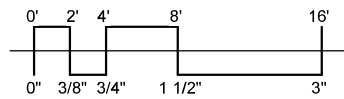


Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

Graphic Scale:	3/16" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020
Sheet Number:	<b>A200</b>



1 North Elevation  
3/16" = 1'-0"



2 South Elevation  
3/16" = 1'-0"



No.	Date	Revisions:
1	04/21/20	90% CD
2	05/05/20	100% CD

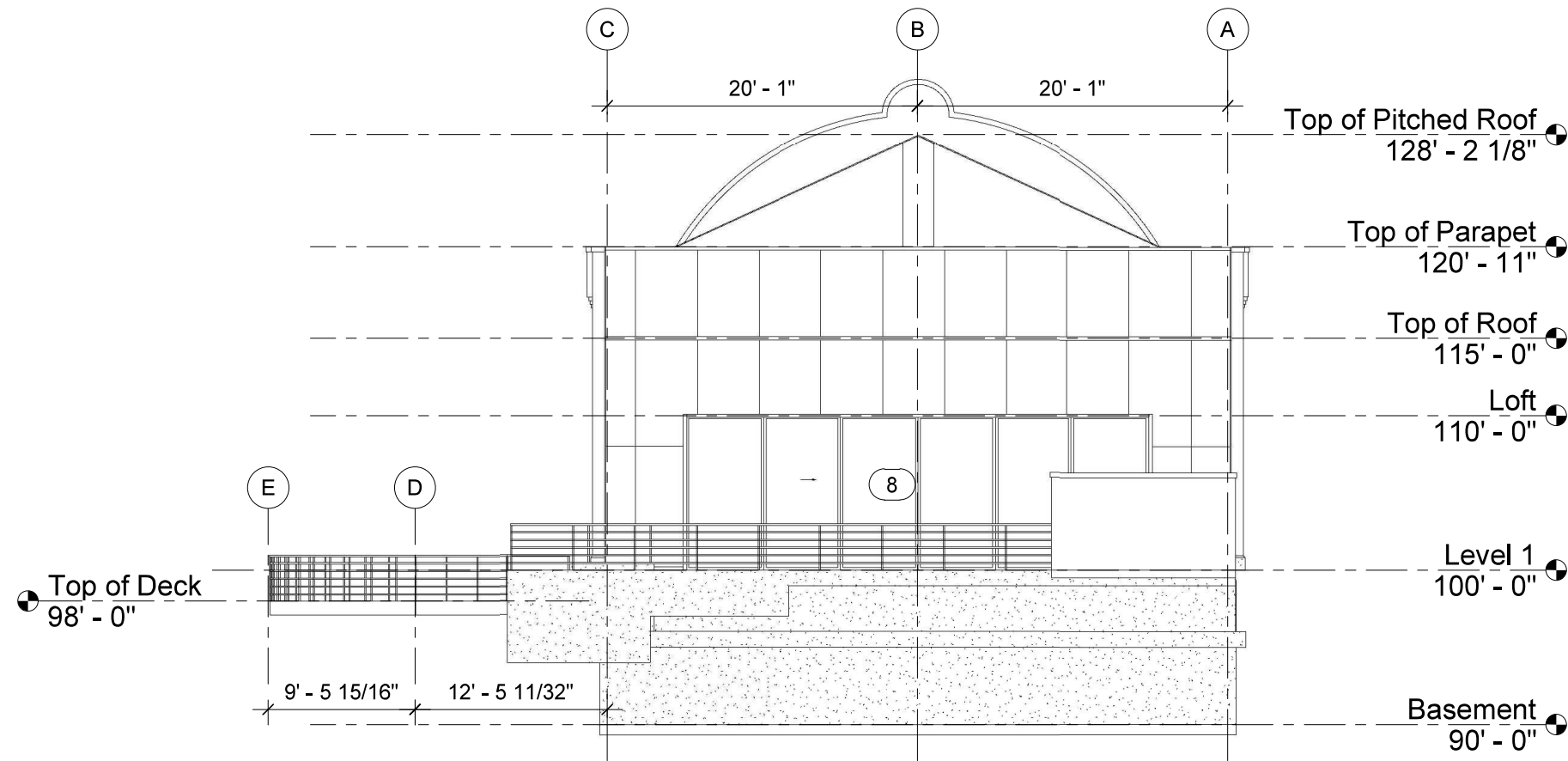
Graphic Scale: 3/16" = 1'-0"

Drawn By: JAW 05/05/2020

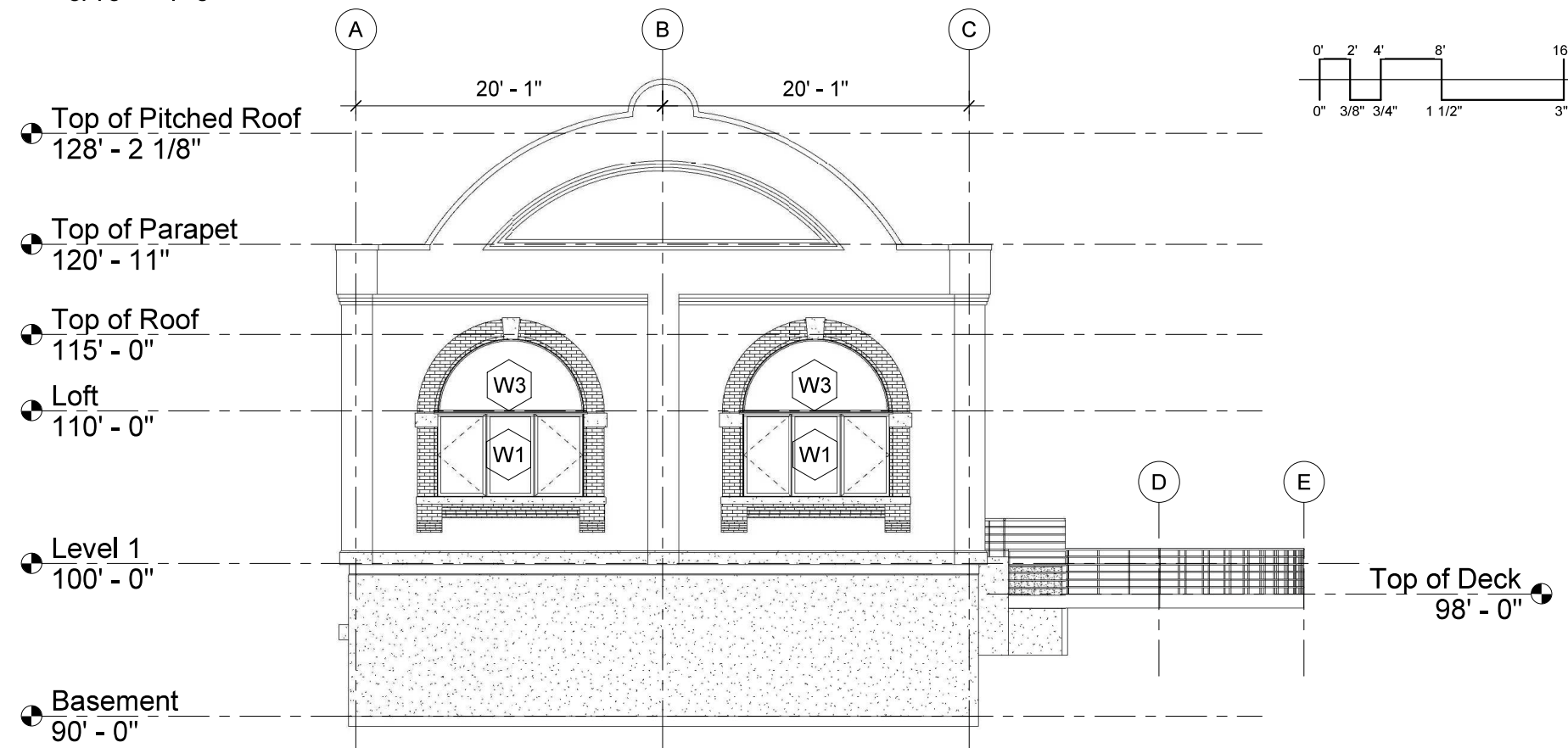
Checked By: JS 05/05/2020

Date Issued: 05/05/2020

Sheet Number: **A201**



1 East Elevation  
3/16" = 1'-0"



2 West Elevation  
3/16" = 1'-0"





Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

Graphic Scale: 3/16" = 1'-0"

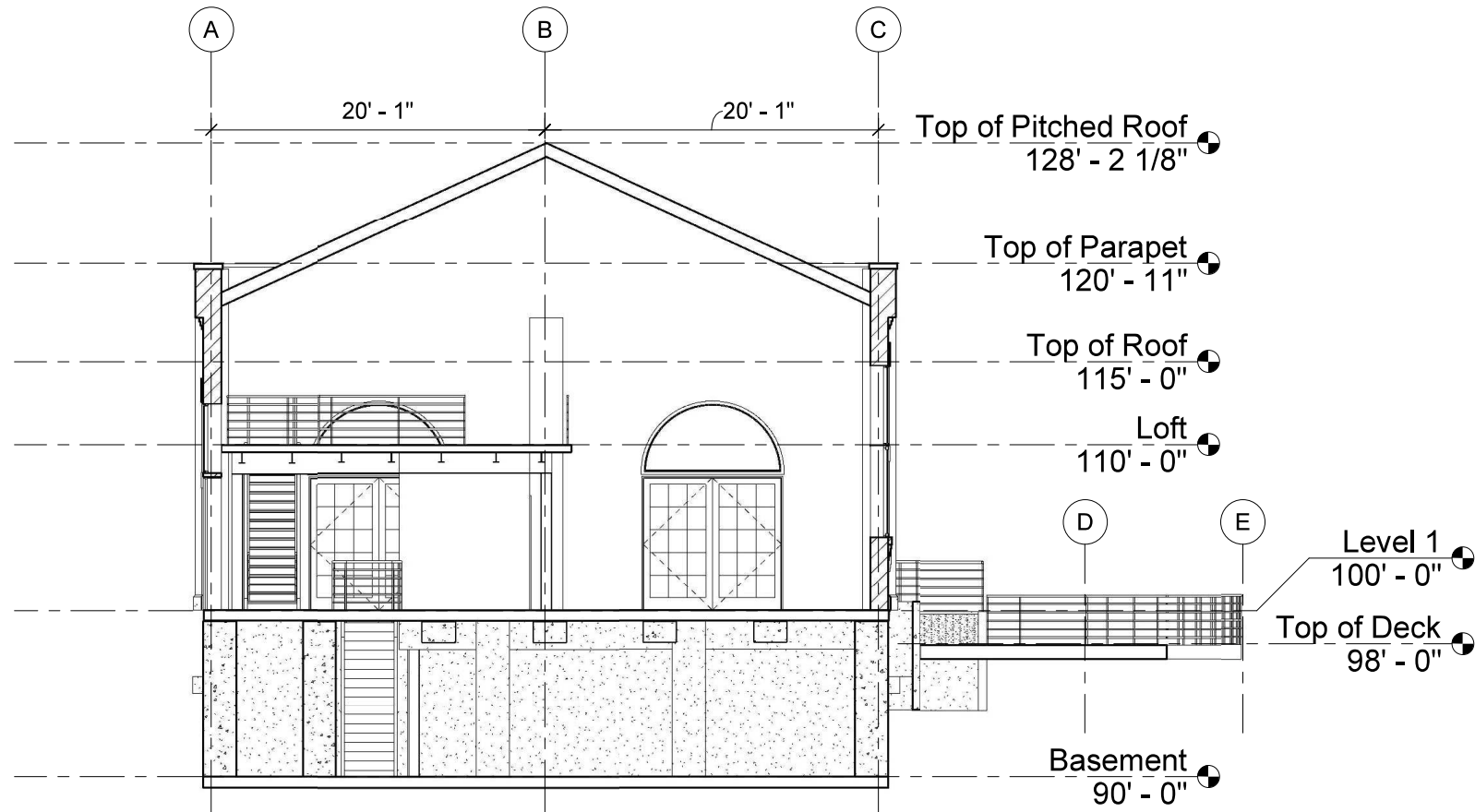
Drawn By: JAW 05/05/2020

Checked By: JS 05/05/2020

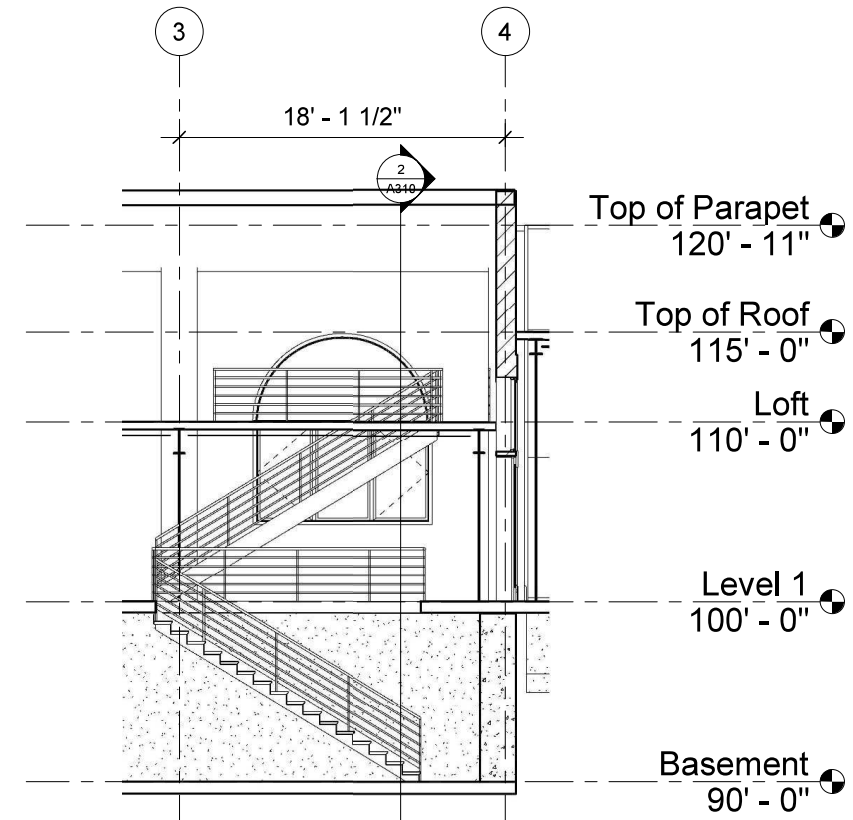
Date Issued: 05/05/2020

Sheet Number: A300

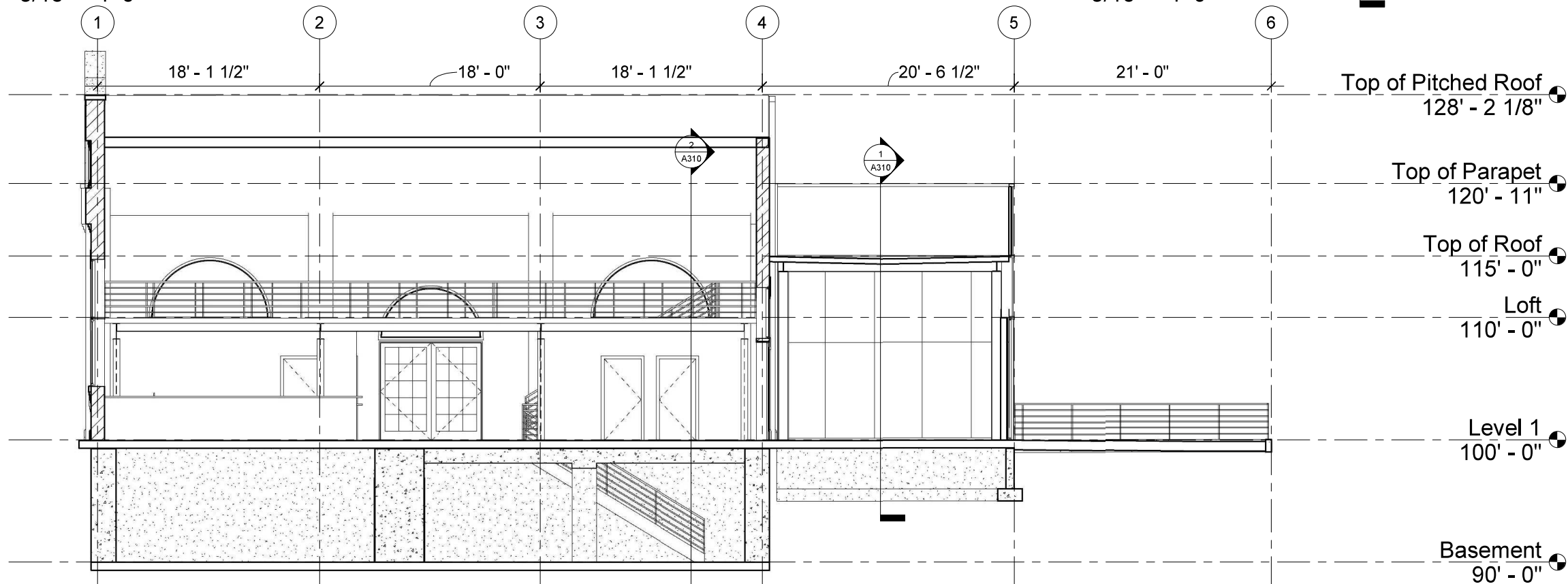
Project number: 2020.01



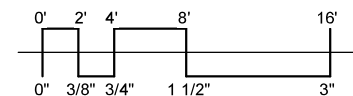
2 North South Building Section View  
3/16" = 1'-0"



3 Stair Section View  
3/16" = 1'-0"



1 East West Building Section View  
3/16" = 1'-0"

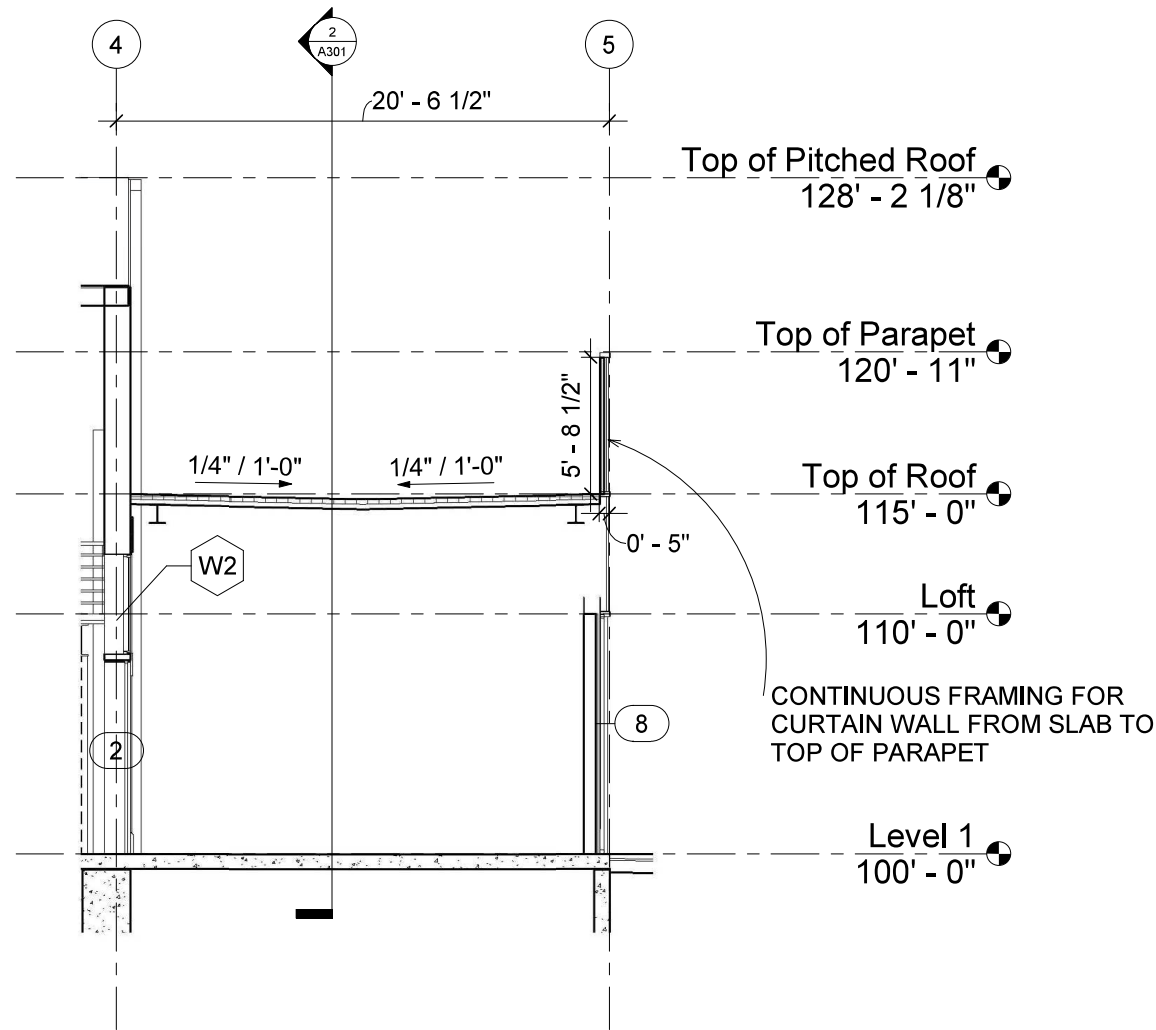




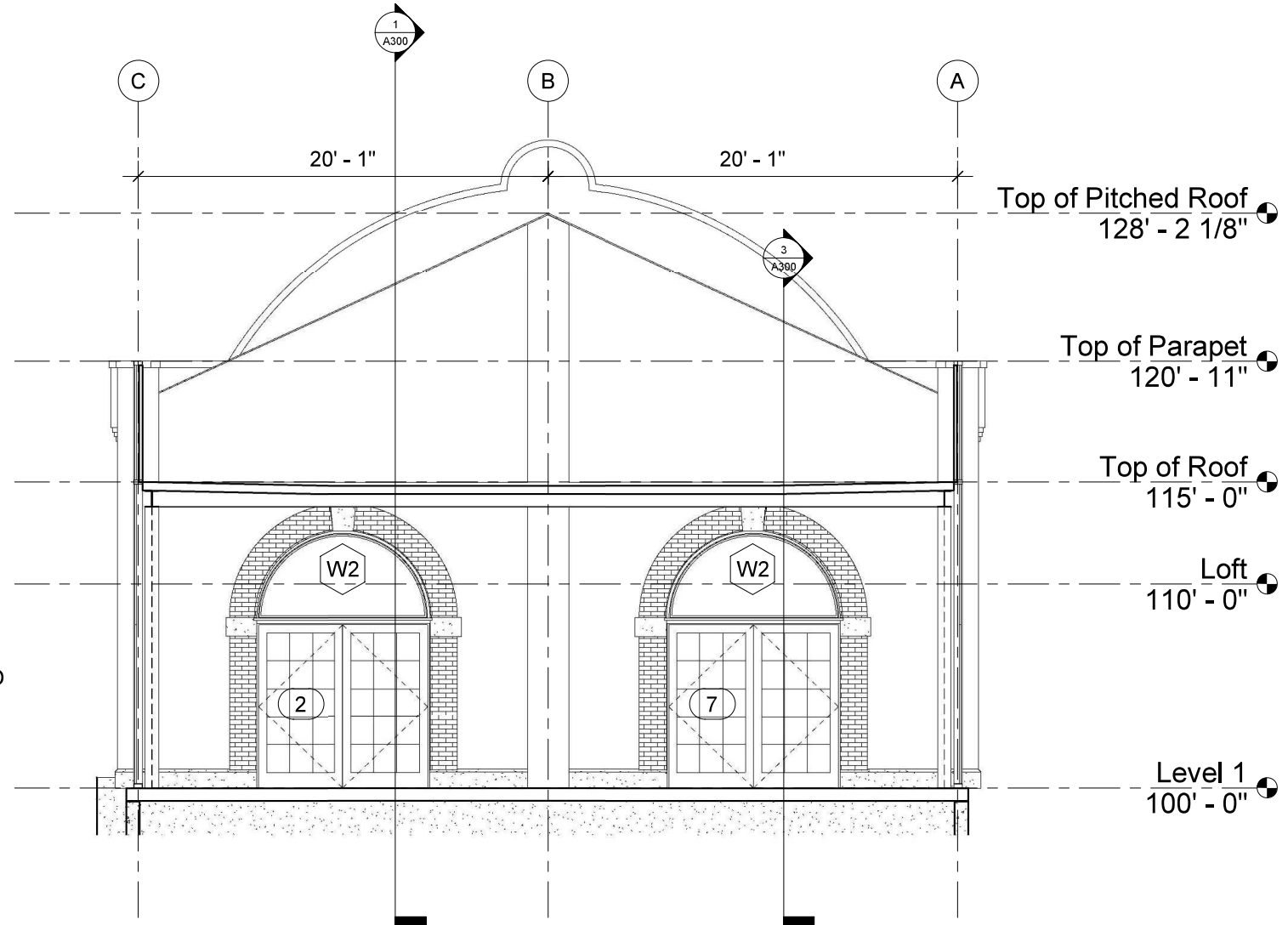
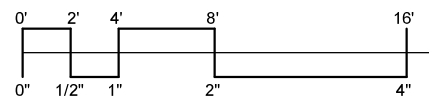


Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale	1/4" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>A301</b>



1 Three Seasons Room East West Section View  
1/4" = 1'-0"

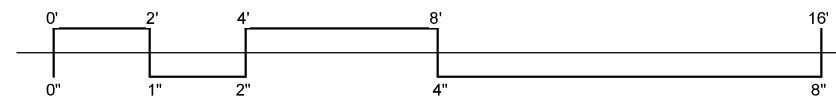
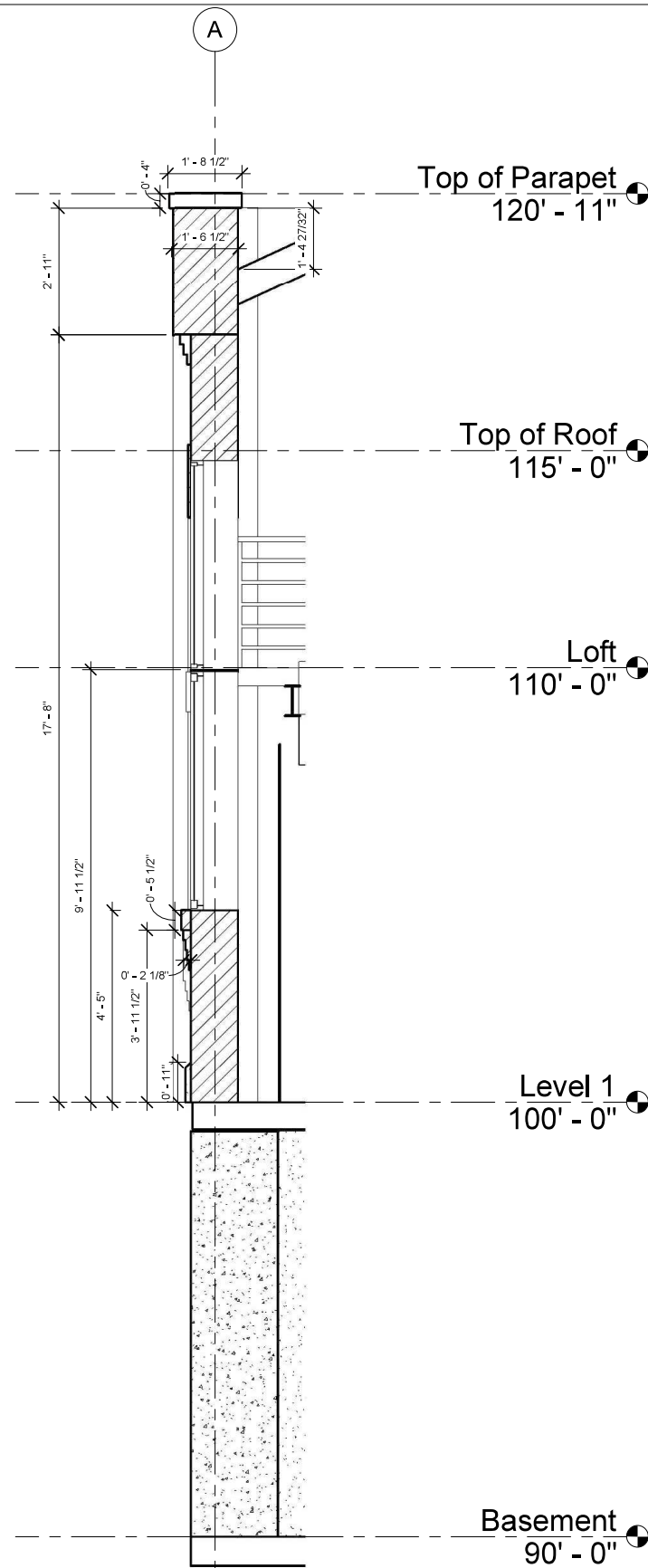
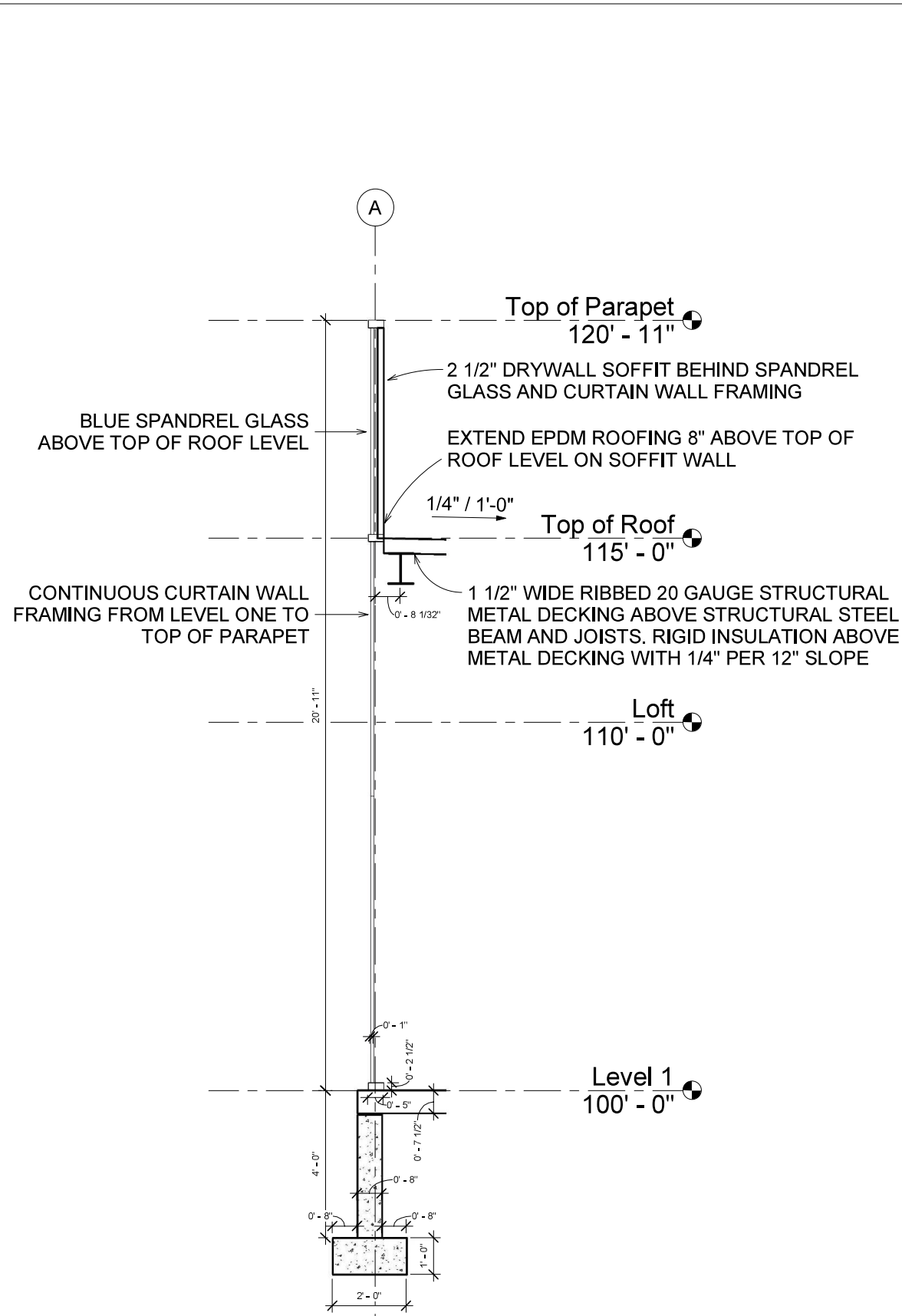


2 Three Seasons Room North South Section View  
1/4" = 1'-0"



No.	Date	Revisions:
1	04/21/20	90% CD
2	05/05/20	100% CD

Graphic Scale	1/2" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>A310</b>





Revisions:		Revisions:	
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2	05/05/20	100%	CD

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

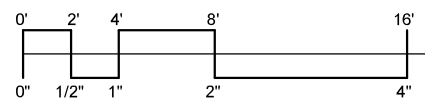
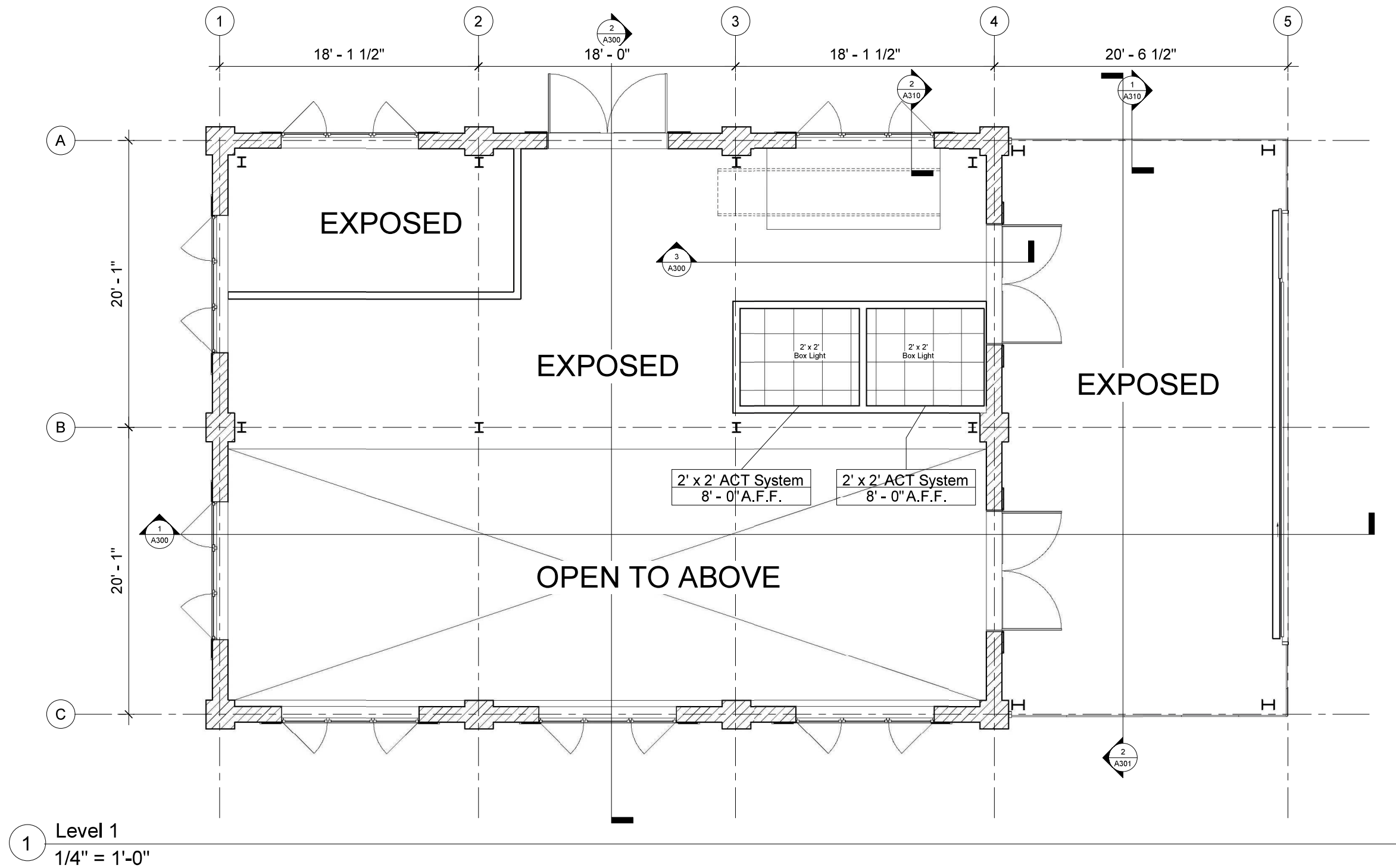
Drawn By: JAW 05/05/2020

Checked By: JS 05/05/2020

Date Issued: 05/05/2020

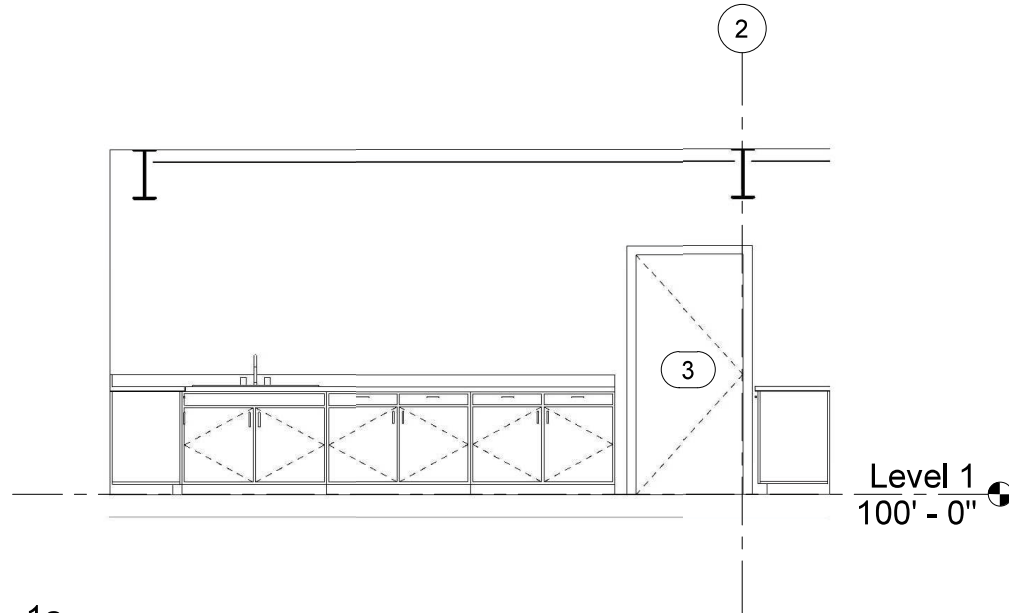
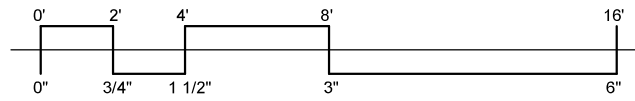
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Project number: 2020.01

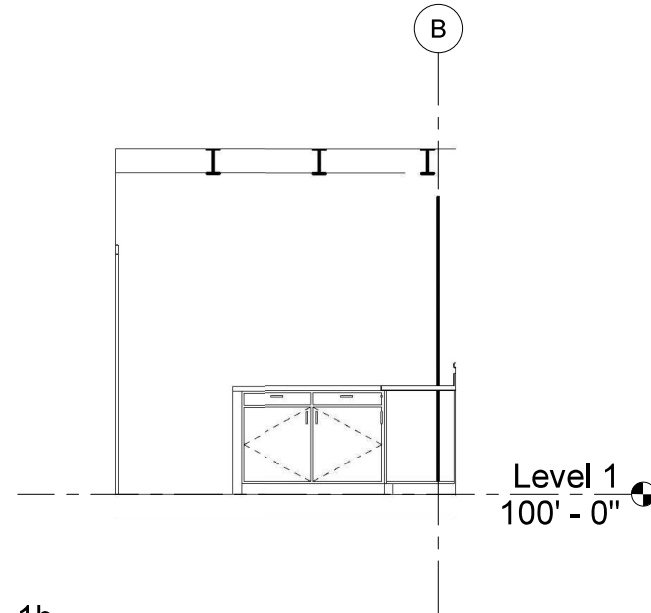




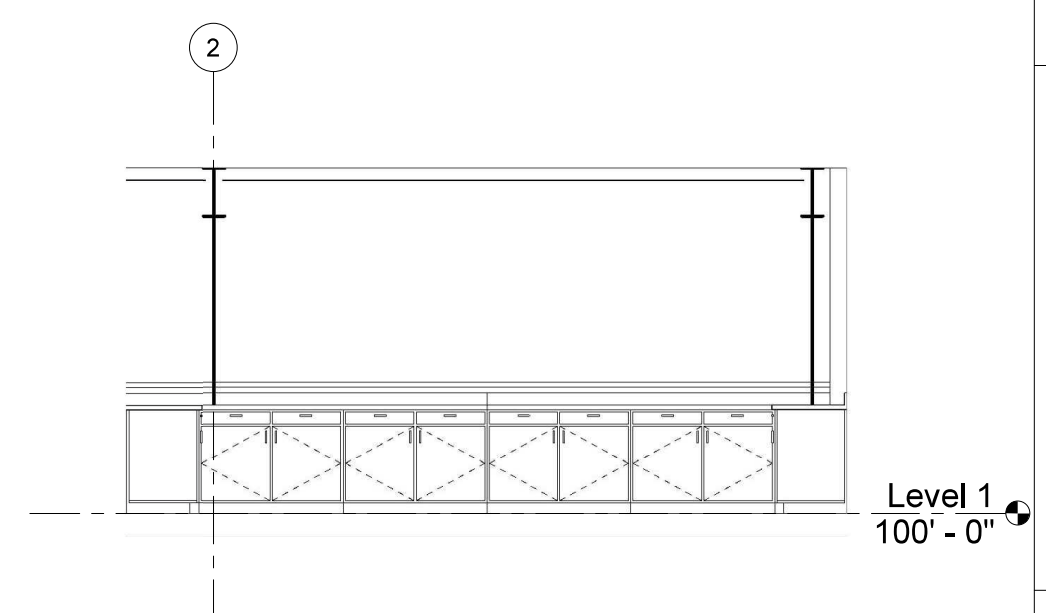
# Serving Station Interior Elevations



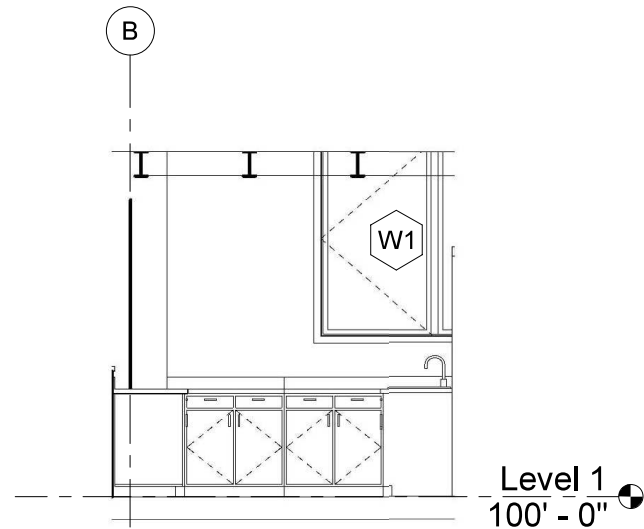
1 1a  
3/8" = 1'-0"



2 1b  
3/8" = 1'-0"

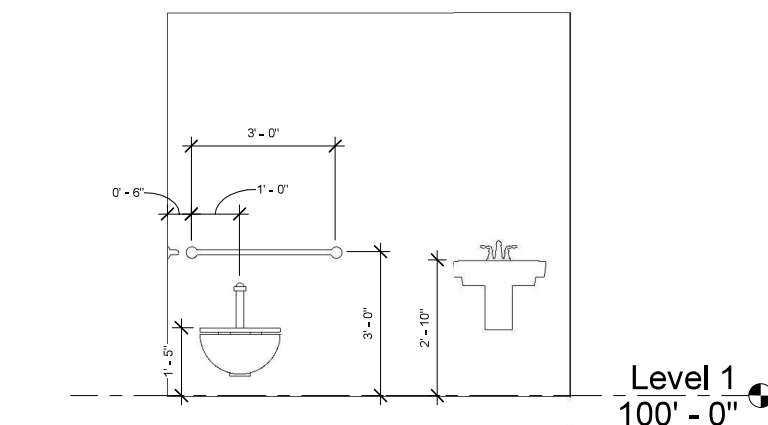


3 1c  
3/8" = 1'-0"

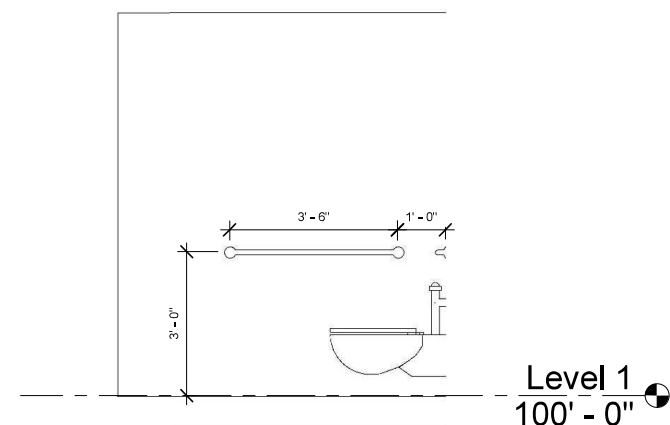


6 1d  
3/8" = 1'-0"

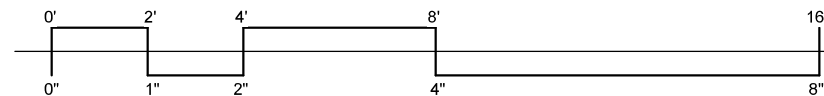
# Bathroom Interior Elevations



4 2a  
1/2" = 1'-0"



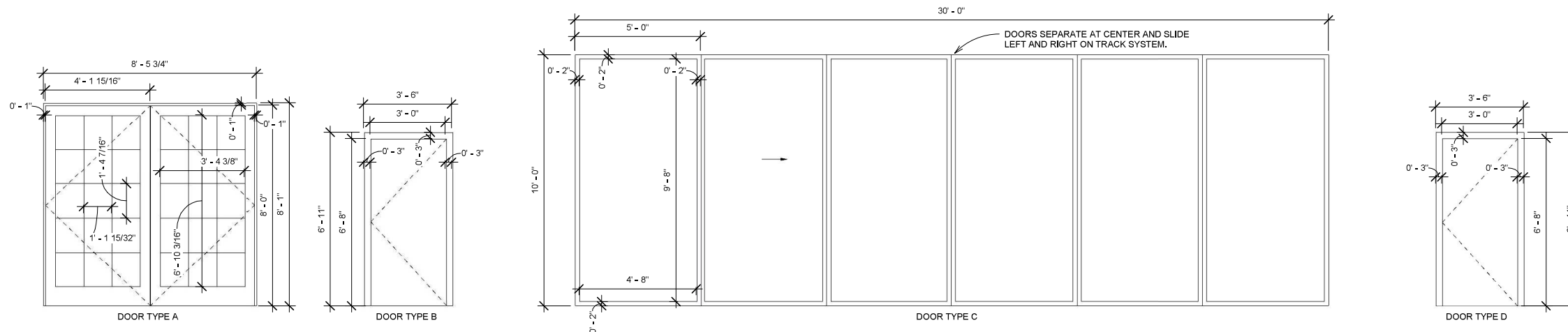
5 2b  
1/2" = 1'-0"



Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

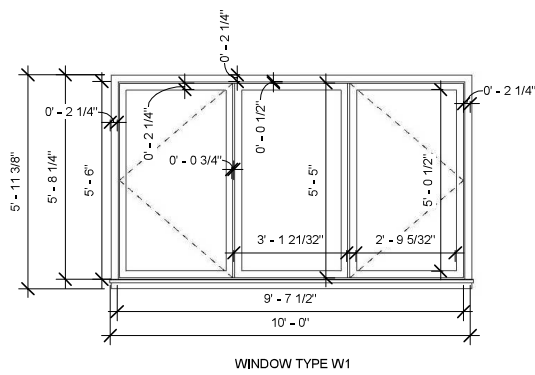
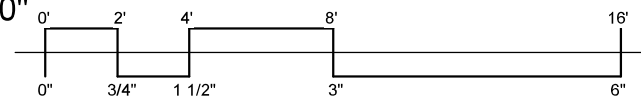
Graphic Scale:	As indicated
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020
Sheet Number:	<b>A500</b>

Door Schedule					
Mark	Type	Height	Width	Frame Material	Door Material
1	A	8'-0"	8'-3 3/4"	HM	AL
2	A	8'-0"	8'-3 3/4"	HM	AL
3	B	6'-8"	3'-0"	HM	WD
4	B	6'-8"	3'-0"	HM	WD
5	B	6'-8"	3'-0"	HM	WD
6	B	6'-8"	3'-0"	HM	WD
7	A	8'-0"	8'-3 3/4"	HM	AL
8	C	10'-0"	30'-0"	HM	AL
9	D	6'-8"	3'-0"	HM	AWD

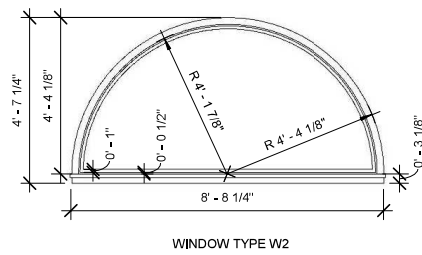


**Door Types**

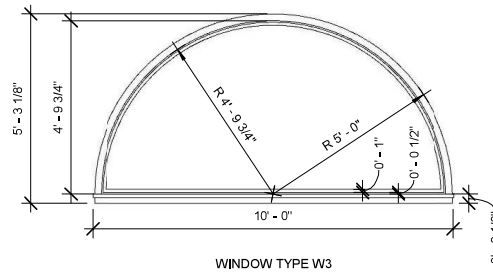
3/8" = 1'-0"



WINDOW TYPE W1



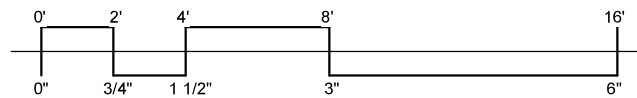
WINDOW TYPE W2



WINDOW TYPE W3

**Window Types**

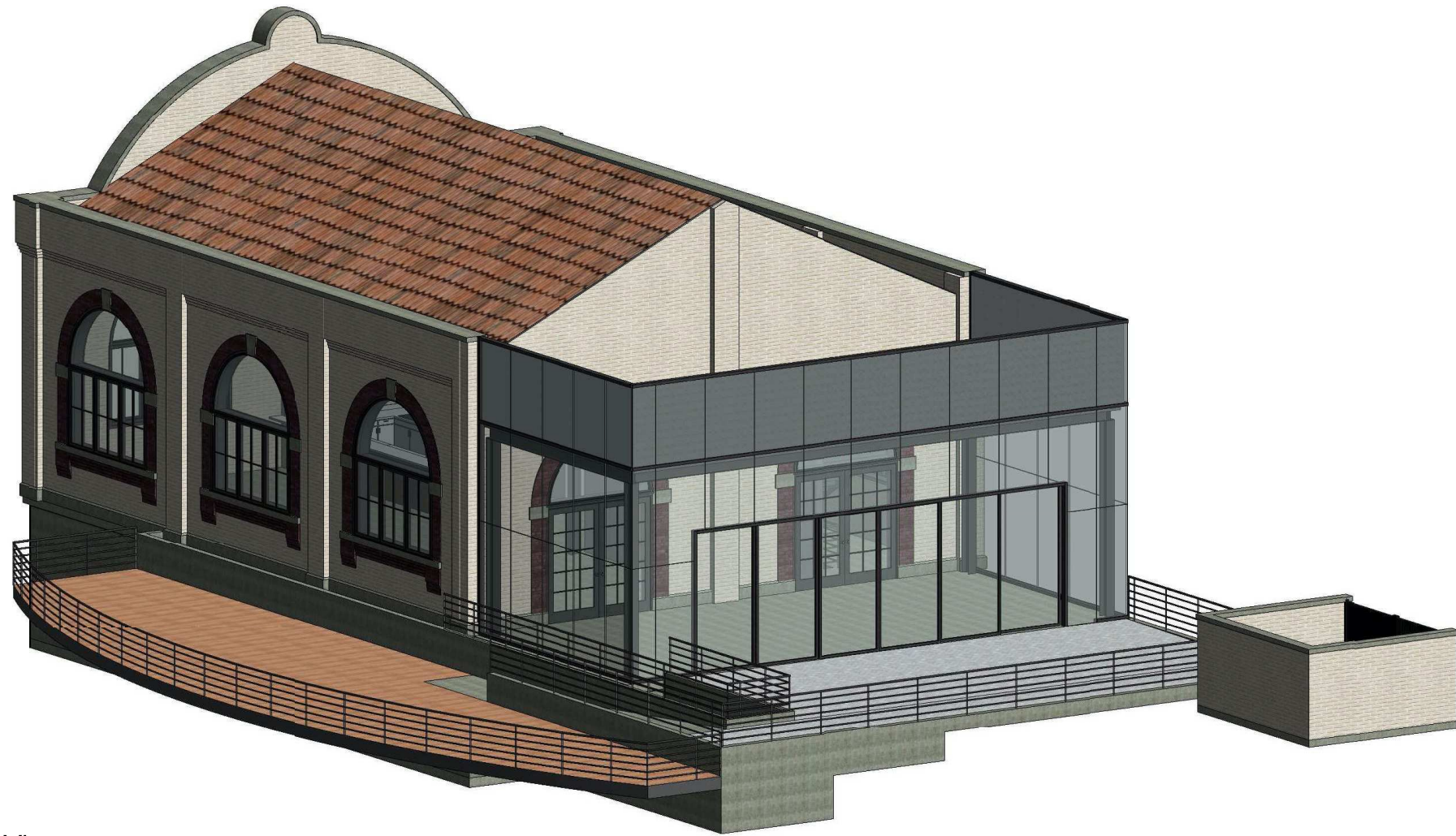
3/8" = 1'-0"



Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

Graphic Scale:	3/8" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020
Sheet Number:	<b>A600</b>





2 Southeast Corner View



1 Northwest Corner View

The concepts, drawings, and written materials provided here were prepared by students in the Department of Civil & Environmental Engineering at the University of Wisconsin-Madison as an activity in the course CEE 578/GLE 479.

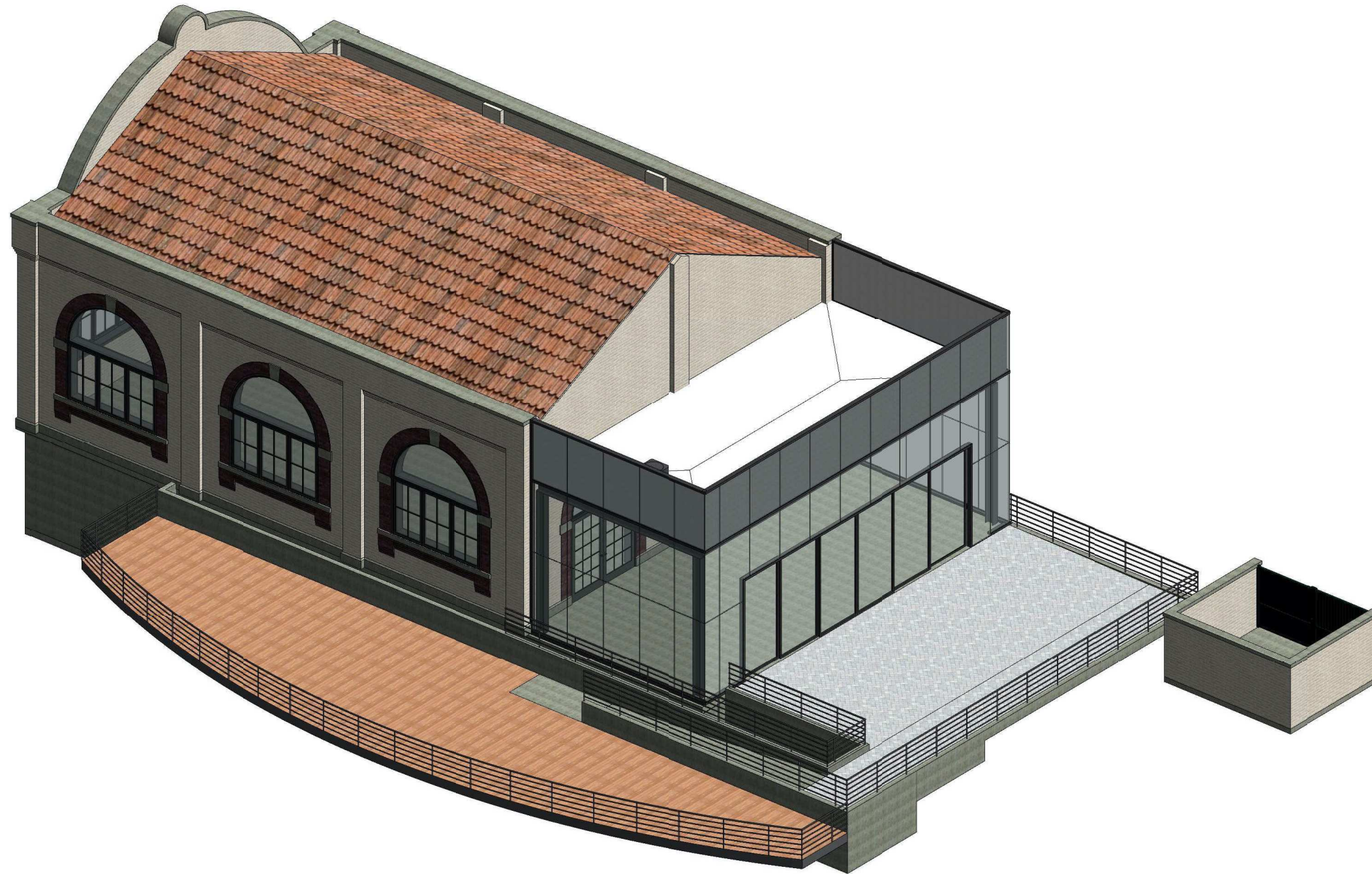
These do not represent the work products of licensed professional engineers. These are not for construction purposes.



No.	Date	Revisions
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2	05/05/20	100% CD

Graphic Scale	
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>A700</b>





1 3D Roof View



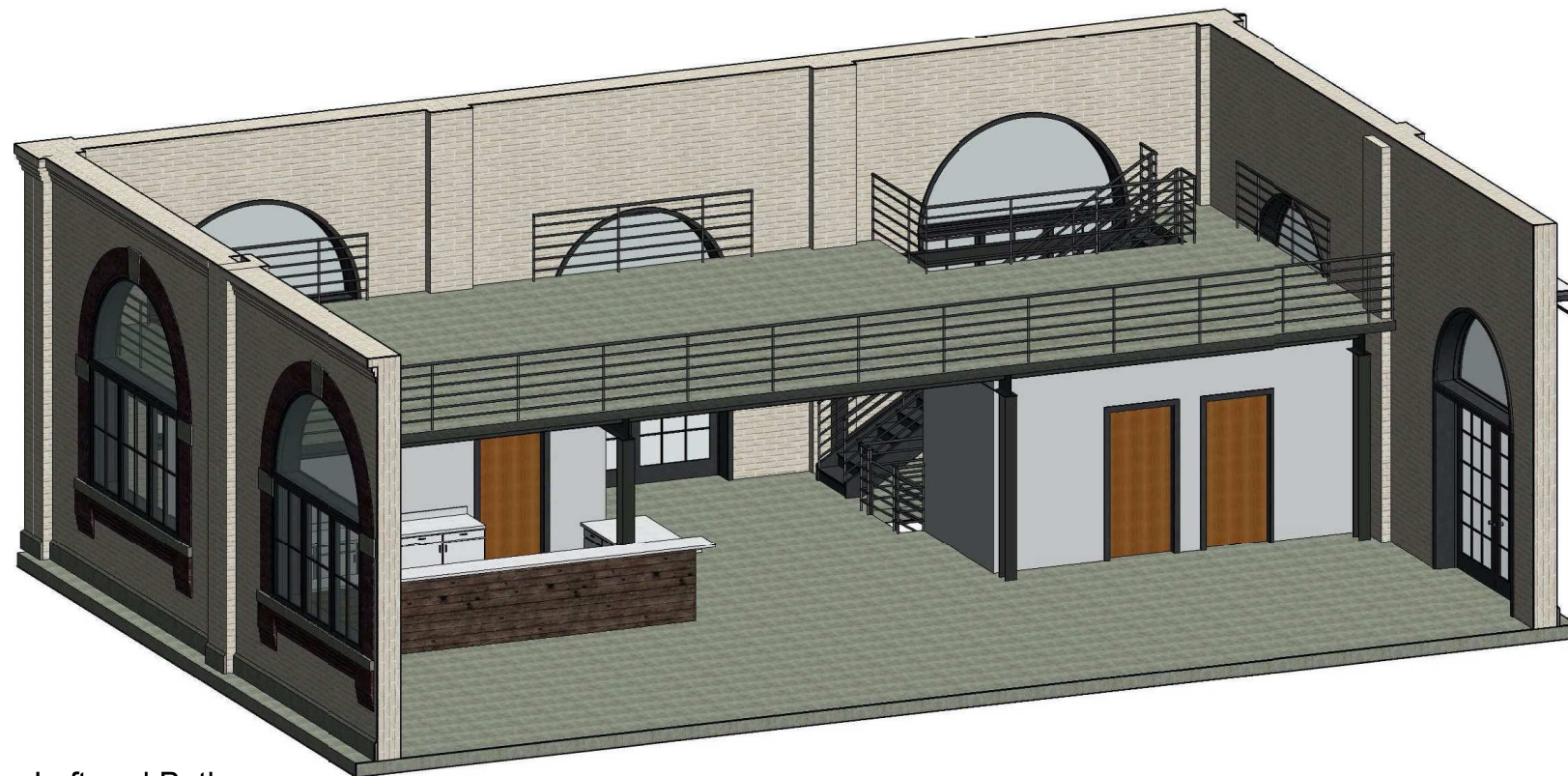
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No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale	
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>A701</b>

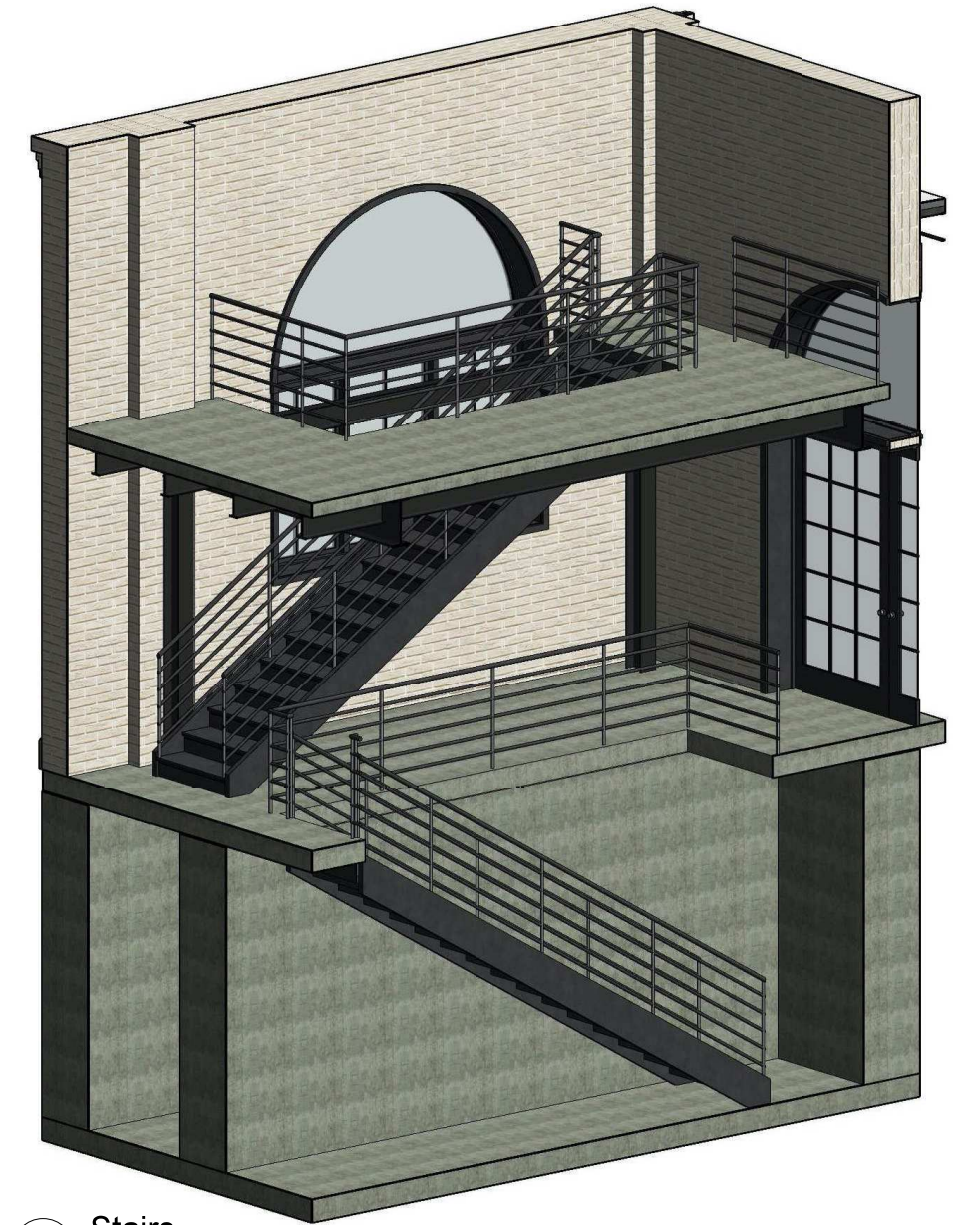




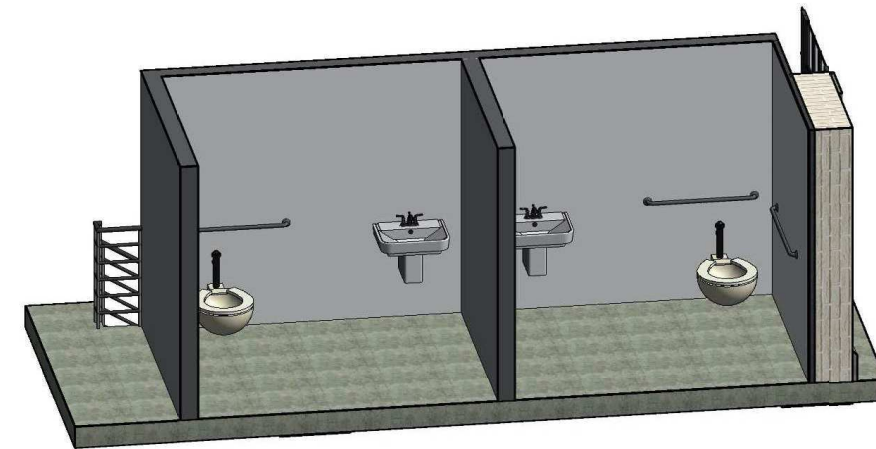
2 Serving Station



4 Loft and Bathrooms



1 Stairs



3 Bathrooms



Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale:	
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020
Sheet Number:	<b>A702</b>





1. Serving Station\_Best Quality  
12" = 1'-0"



3. Serving Station 2  
12" = 1'-0"



2. Deck and Patio  
12" = 1'-0"



Revisions:		
No.	Date:	Revisions:
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2	05/05/20	100% CD

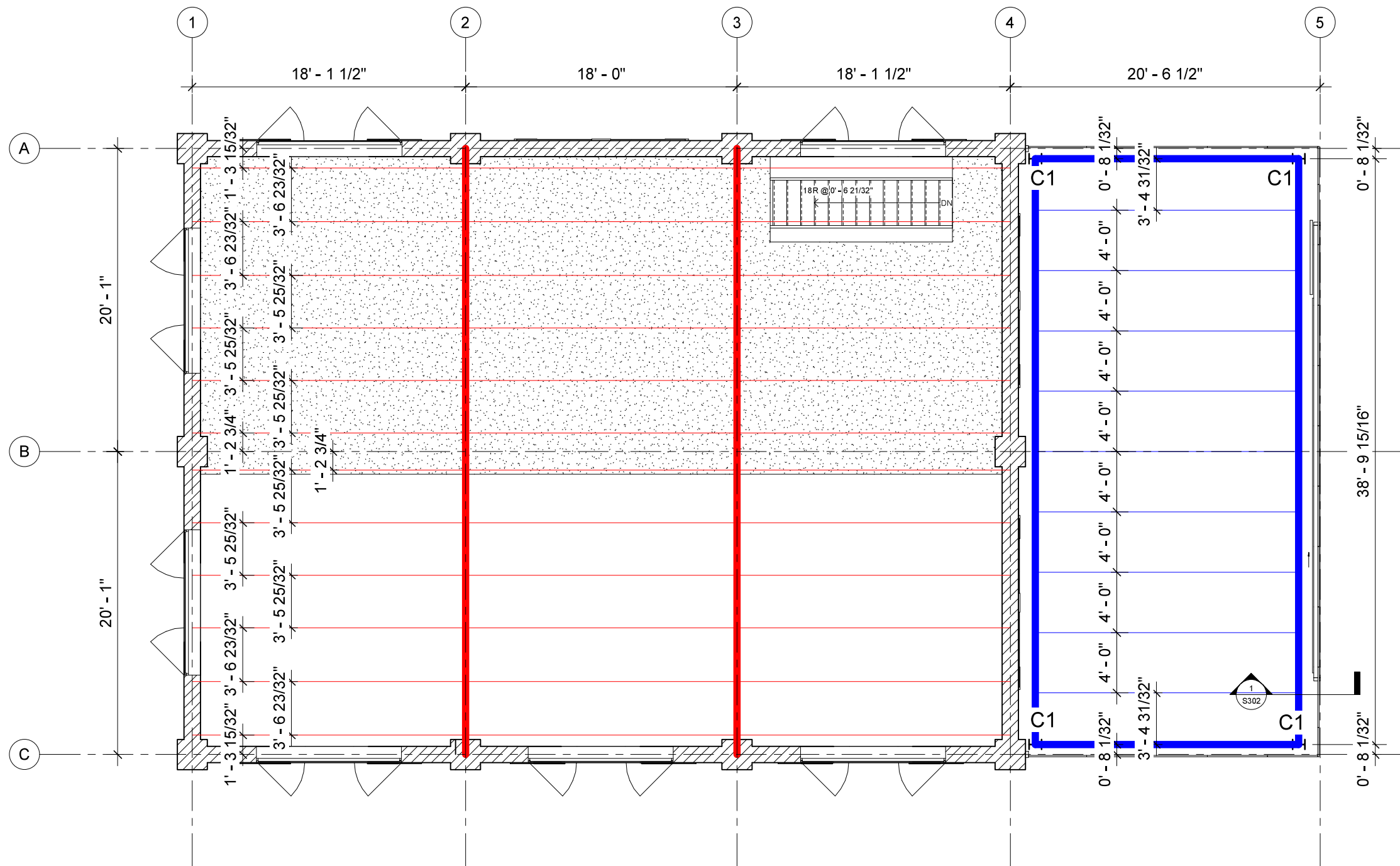
Graphic Scale	12" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>A703</b>





Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale:	1/4" = 1'-0"
Drawn By:	SIE 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020
Sheet Number:	<b>S100</b>



- Existing steel beams
- Existing steel trusses
- New steel joist, 10K1 A572 grade 50
- New steel girder, W10x33 A572 grade 50

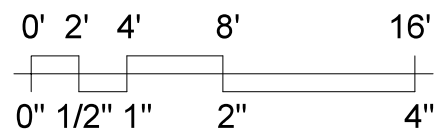
Columns with ID C1 are W10x33 A572 grade 50.

TOS is 114' 7" for the joists in the three seasons addition.

The slope angle of the existing roof is 24.72 deg. The top of the existing roof is 128' 2 1/8".

See architectural drawings for further details and measurements.

1 Roof Plan  
1/4" = 1'-0"



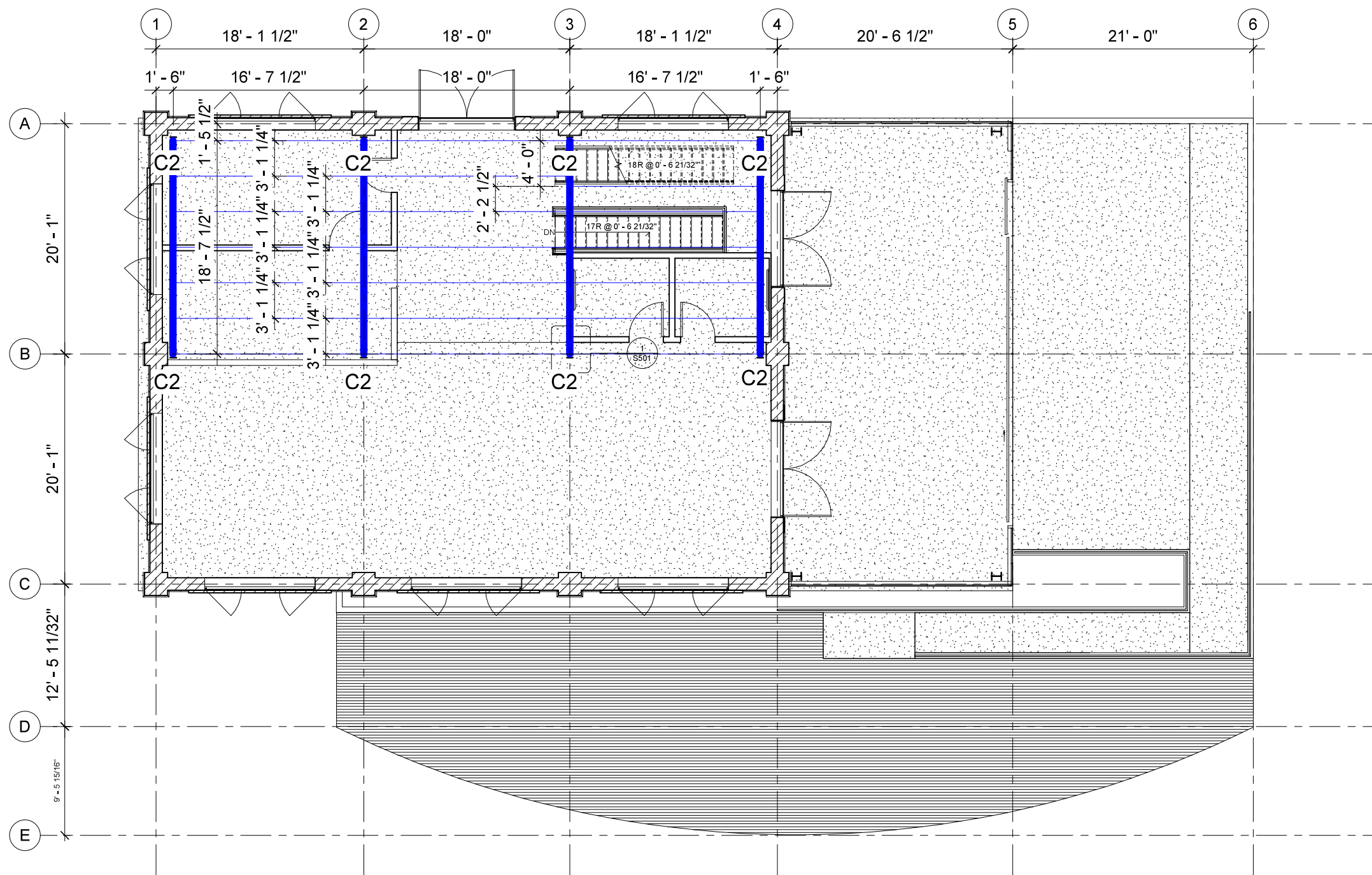


Revisions:	
No.	Date:
1	04/21/20
2	05/05/20

Revisions:	
No.	Date:
1	04/21/20
2	05/05/20

Graphic Scale	3/16" = 1'-0"
Drawn By:	SIE 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020

Sheet Number	<b>S101</b>
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— New steel beam, W8x15  
A572 grade 50

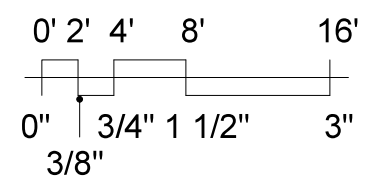
— New steel girder, W16x40  
A572 grade 50

Columns with ID C2 are W8x24 A572 grade 50.

TOS is 109' 7" for the new loft. The flooring is 1.5" composite floor with 3.5" 145 PCF normal weight concrete.

See architectural drawings for further details and measurements.

1 Loft Plan  
3/16" = 1'-0"





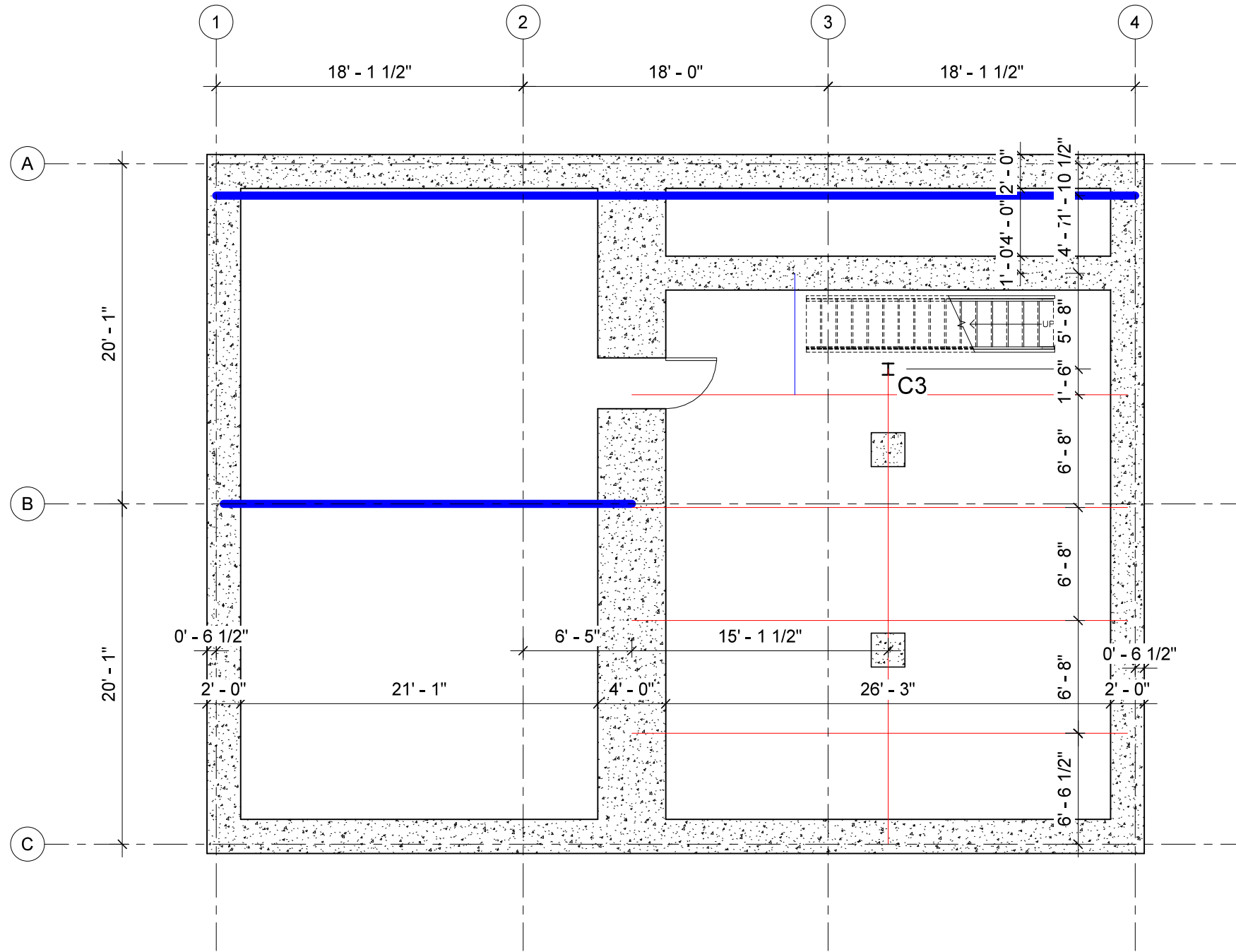
No.	Date:	Revisions:
1	04/21/20	90% CD
2	05/05/20	100% CD

Graphic Scale	1/4" = 1'-0"
Drawn By:	SIE 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>S102</b>

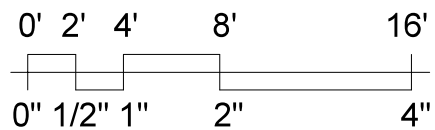
- Existing concrete beams, 4000 psi.
- ▬ Existing concrete wall, 4000 psi.
- ▬ New steel beam, W16x40 A572 grade 50
- New steel beam, W8x15 A572 grade 50

Columns with ID C3 are W8x40 A572 grade 50.

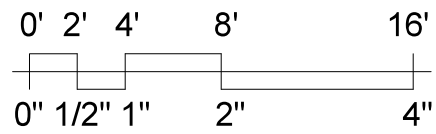
See architectural drawings for further details and measurements.



1 Level 1 Plan  
1/4" = 1'-0"

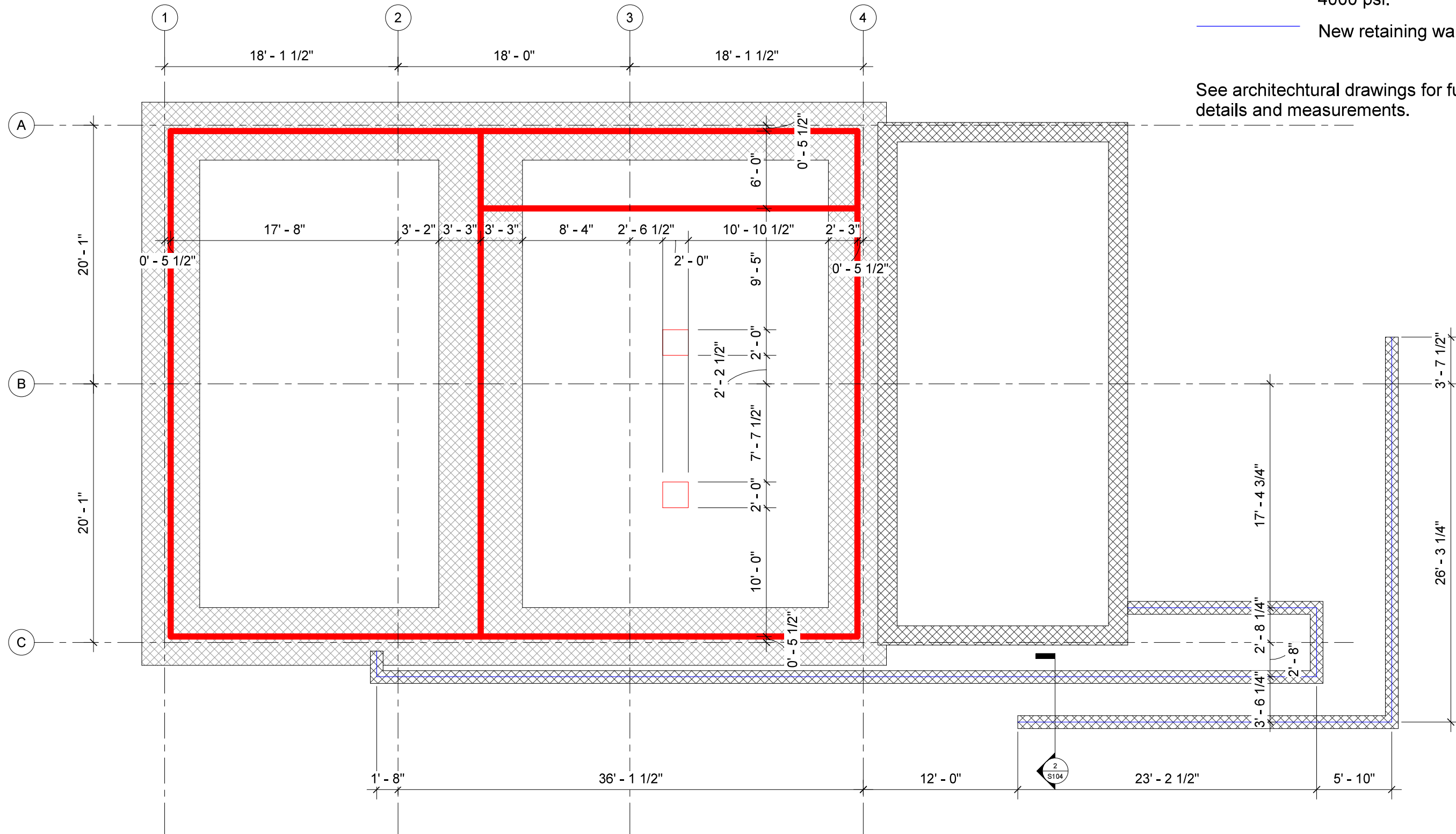






- Existing concrete column, 4000 psi.
- Existing concrete wall, 4000 psi.
- New retaining wall.

See architectural drawings for further details and measurements.



State of Wisconsin  
 Department of Administration  
 Division of Facilities Development



515 S 4th St  
 Stoughton, WI

Power Plant No. 1 Adaptive Reuse  
 City of Stoughton  
 Stoughton, Wisconsin

Sheet Title:  
 S103  
 Basement Plan

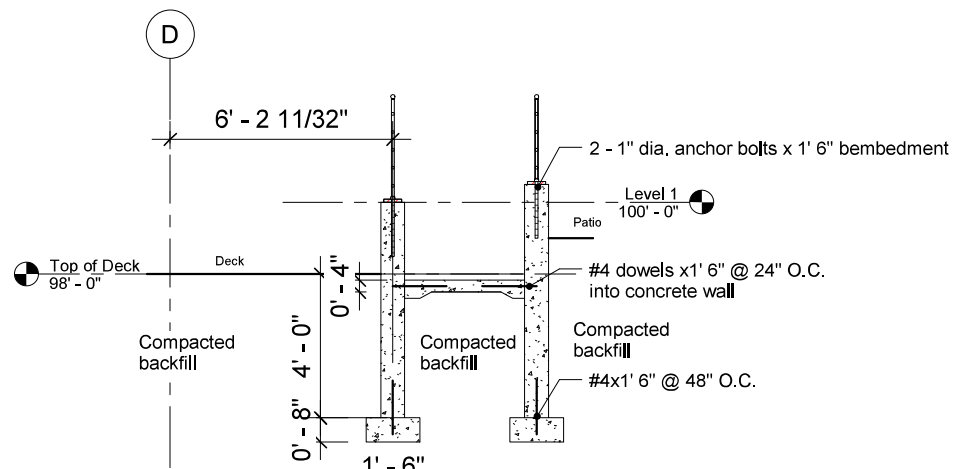
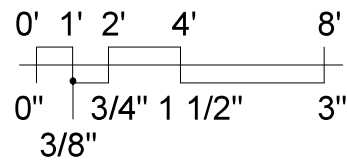
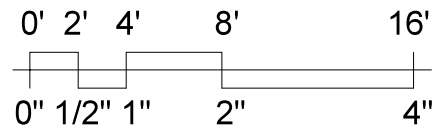
Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale	1/4" = 1'-0"
Drawn By:	Author 05/05/2020
Checked By:	Checke05/05/2020
Date Issued	05/05/2020

Sheet Number **S103**

**1** Basement plan  
1/4" = 1'-0"





Steel.

New concrete.

Existing in-situ concrete. 4000 psi.

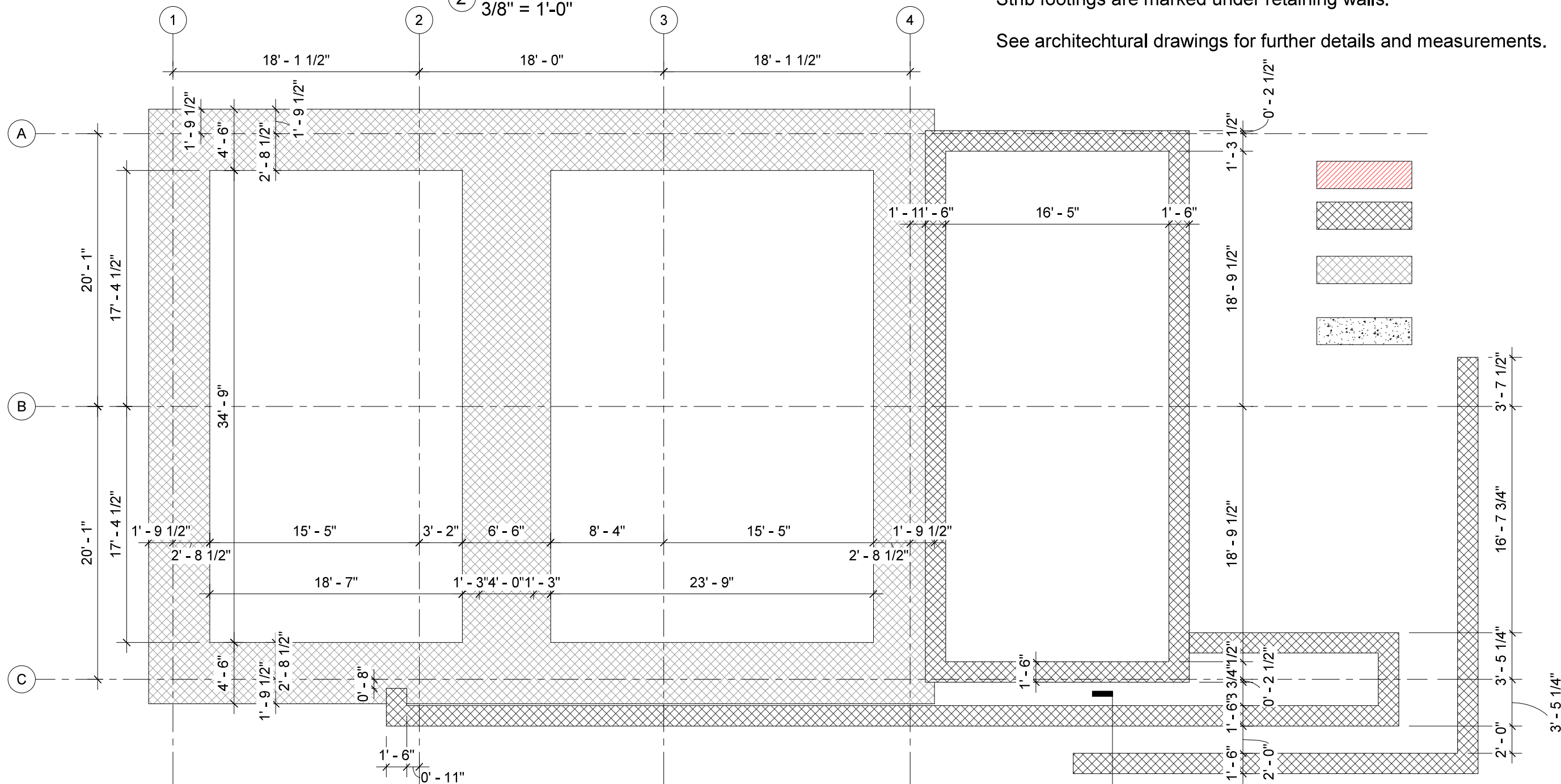
New in-situ concrete. 4000 psi.

Top of concrete is 90' 0" for the existing building. The existing concrete slab is 12 in.

Top of concrete is 100' 0". The thickness of the concrete slab is 7.5 in.

Strib footings are marked under retaining walls.

See architectural drawings for further details and measurements.



State of Wisconsin  
 Department of Administration  
 Division of Facilities Development



515 S. 4th St  
 Stoughton, WI

Power Plant No. 1 Adaptive Reuse  
 City of Stoughton  
 Stoughton, Wisconsin

Sheet Title:  
 S104  
 Foundation Plan

Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90% CD	
2	05/05/20	100% CD	

Graphic Scale	As indicated
Drawn By:	Author 05/05/2020
Checked By:	Checke05/05/2020
Date Issued	05/05/2020

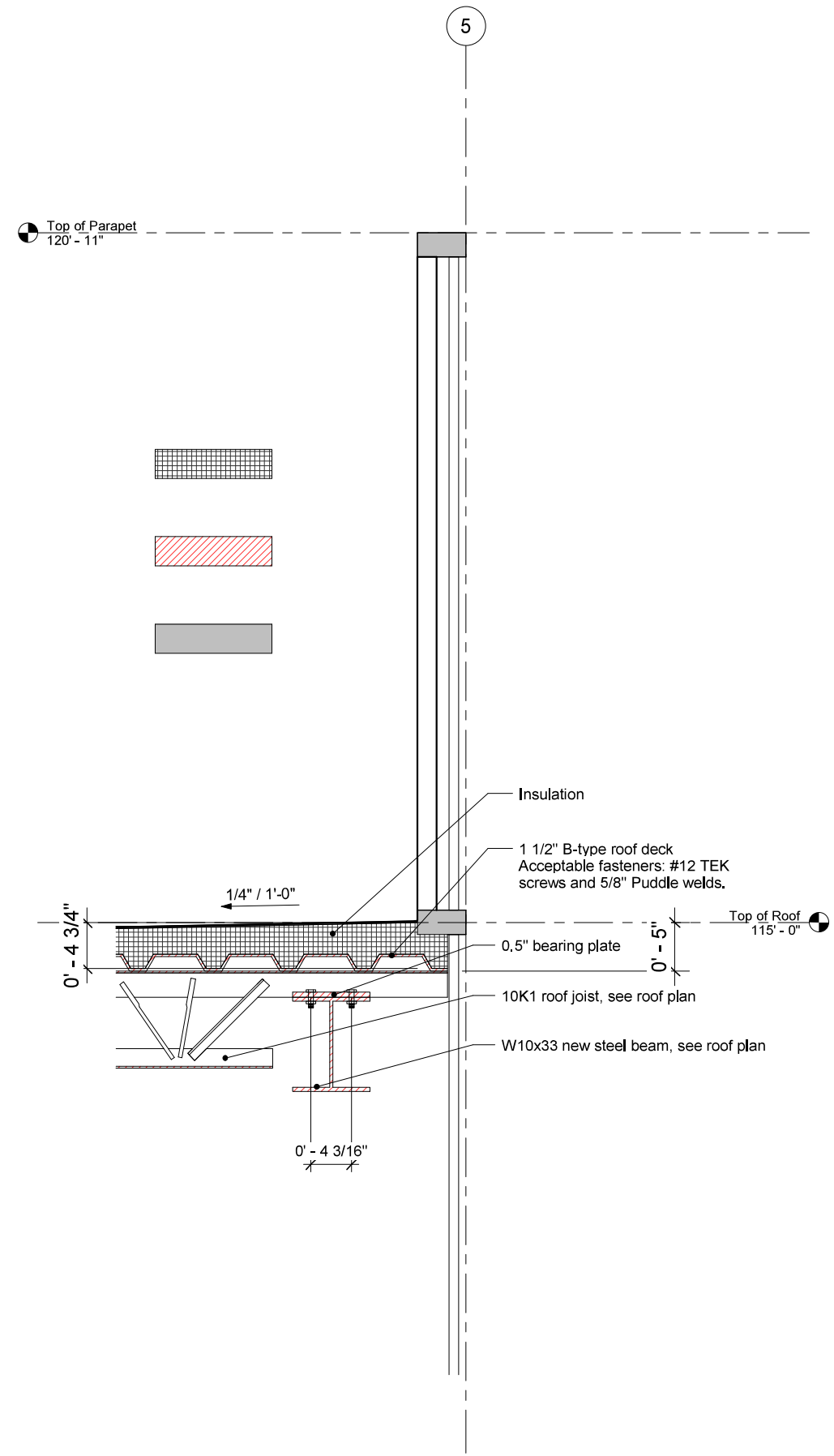
Sheet Number  
**S104**

Project number 2020.01

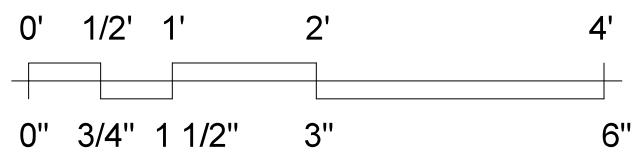


Revisions:		
No.	Date:	Revisions:
1	04/21/20	90% CD
2	05/05/20	100% CD

Graphic Scale	1 1/2" = 1'-0"
Drawn By:	SIE 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	<b>S302</b>



1 Roof Section, Three Seasons  
1 1/2" = 1'-0"



Steel  
Aluminum  
Insulation

All joists are to be designed by joist manufacturer per SJI standards and loads indicated.

Use connections as detailed on plans or guide details provided. Whenever connections are not covered, the fabricator shall request the engineer to supply a connection detail.

Maximum load deformed framing shall not exceed L/360.

Structural steel strength:

All steel beams	50,000 psi
Steel joists	50,000 psi
Roof deck	33,000 psi
Bolts	ASTM A325-N

Top of steel of joist is 114' 7".

Height of insulation decreases from 4 13/16" at grid line 5. Insulation has a slope of 1/4"/1'.

See architectural drawings and structural roof plan, i.e. S100, for further details and measurements.

Revisions:	
No.	Date:
1	04/21/20
2	05/05/20

Revisions:	
No.	Date:
1	04/21/20
2	05/05/20

Graphic Scale	1 1/2" = 1'-0"
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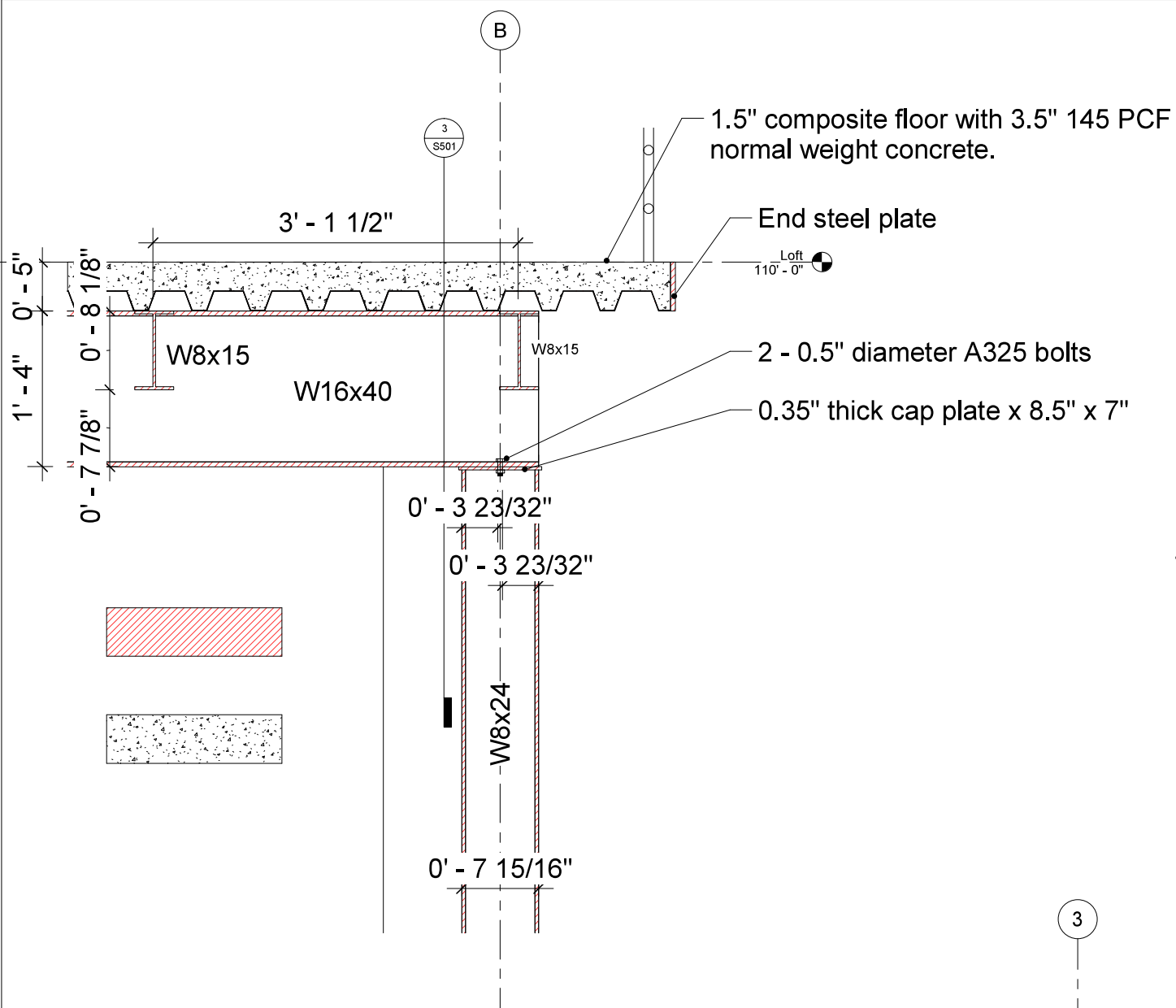
Drawn By:	SIE 05/05/2020
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Checked By:	JS 05/05/2020
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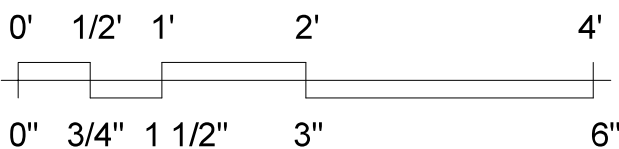
Date Issued	05/05/2020
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Sheet Number	<b>S501</b>
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Project number	2020.01
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② Connection to Beam  
1 1/2" = 1'-0"



Steel  
Concrete

Use connections as detailed on plans or guide details provided. Whenever connections are not covered, the fabricator shall request the engineer to supply a connection detail.

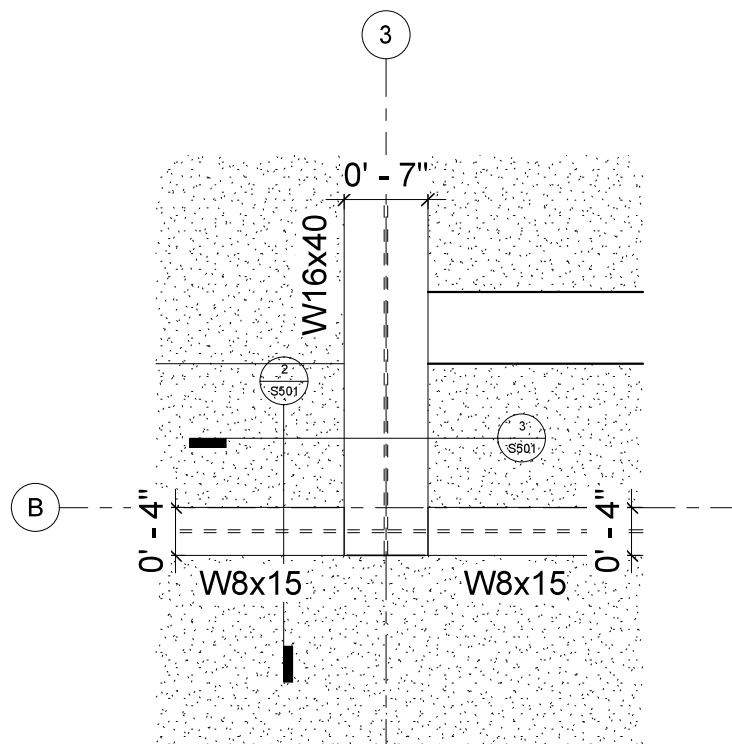
Maximum load deformed framing shall not exceed L/360.

Structural steel strength:  
All steel beams 50,000 psi  
Loft deck 50,000 psi  
Bolts ASTM A325-N

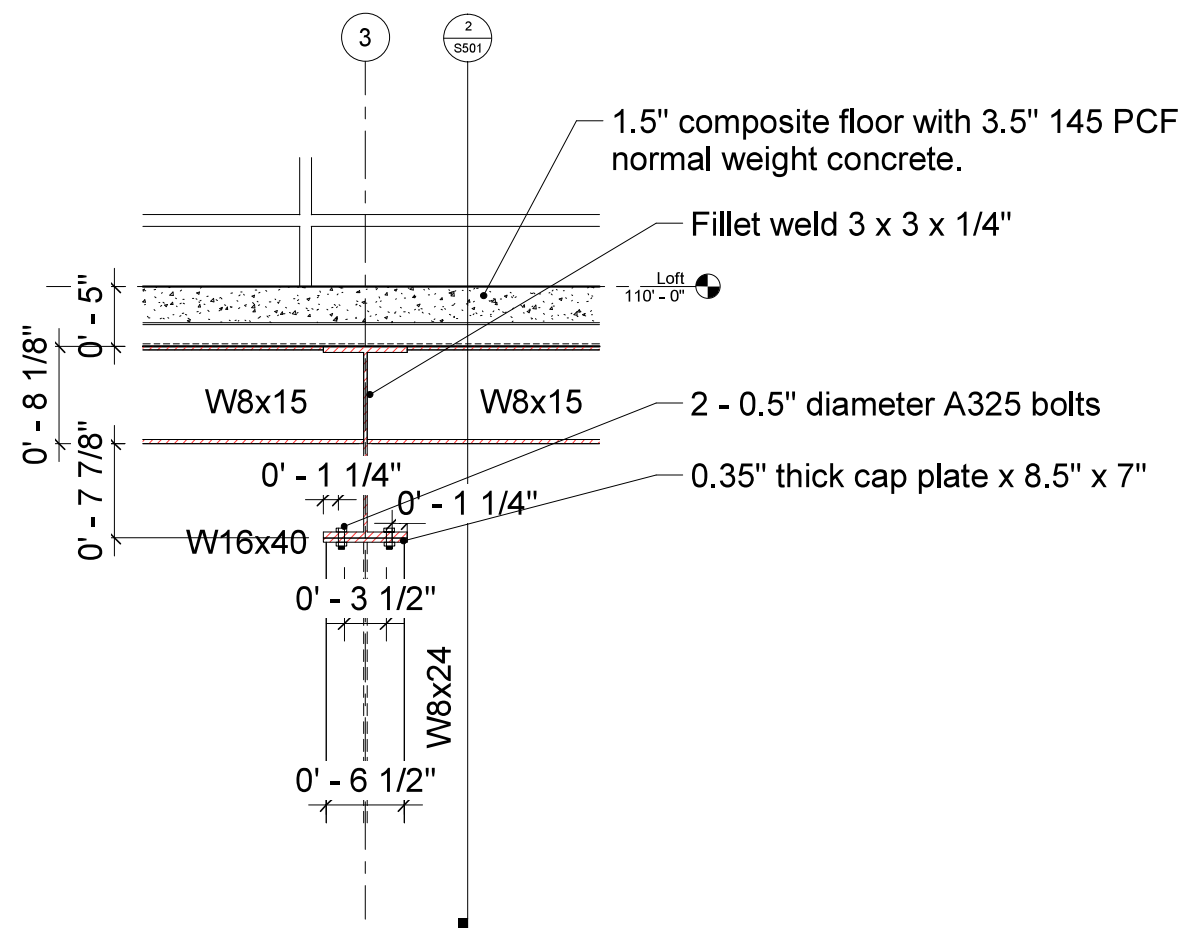
Top of steel of beams are 109' 7".

1.5" composite flooring with 3.5" 145 PCF normal weight concrete is levelled to 110'.

See architectural drawings and structural loft plan, i.e. S101, for further details and measurements.



① Loft Detail  
1 1/2" = 1'-0"



③ Connection to Column  
1 1/2" = 1'-0"