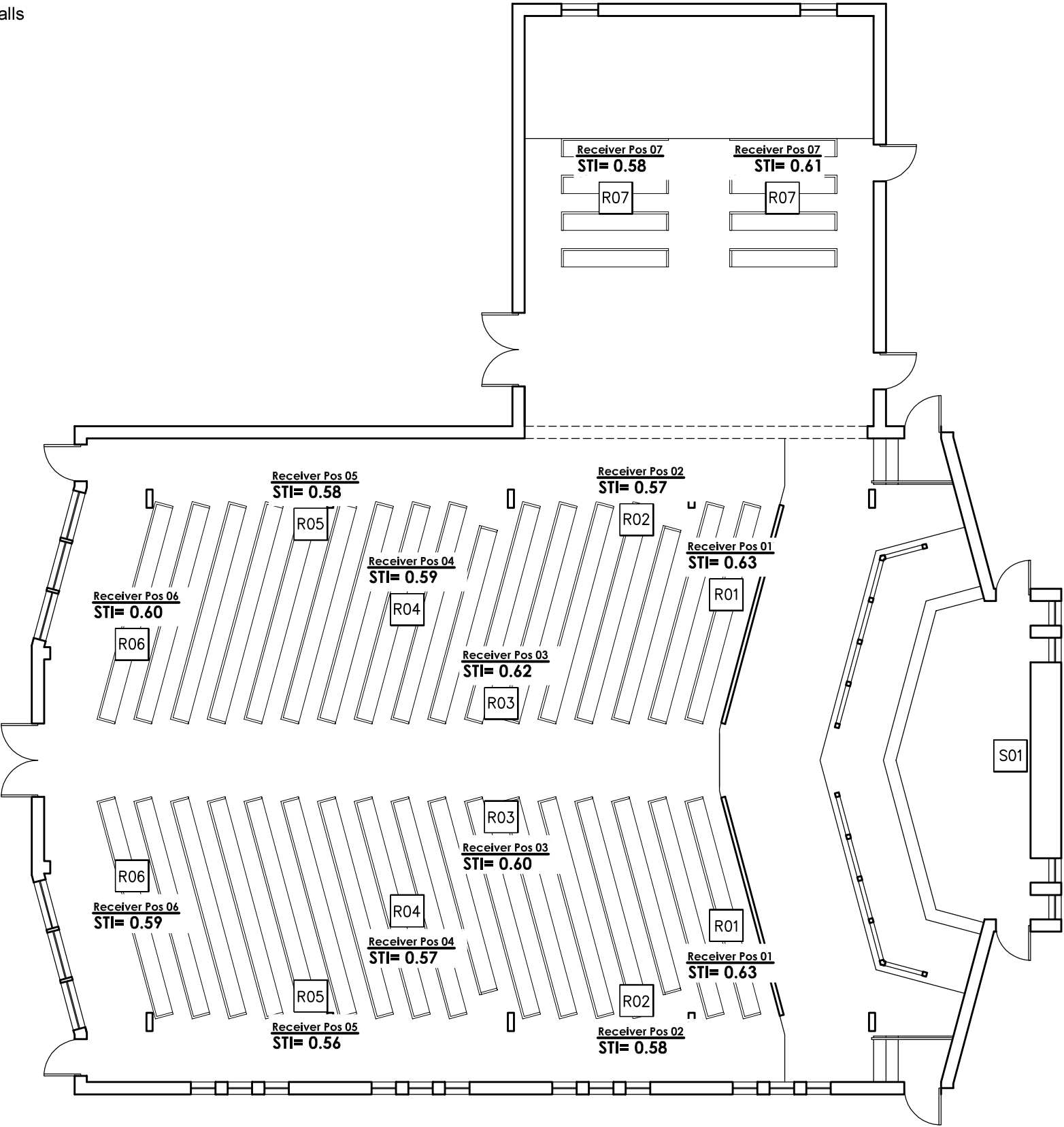


Legend

STI Range	Examples of typical uses
>0.76	Recording Studios
0.68-0.76	Theatres, speech auditoria, parliaments, courts
0.64-0.68	Teleconference, theatres
0.60-0.64	Class rooms, concert halls
0.56-0.60	Contemporary worship spaces, concert halls
0.52-0.56	Traditional worship spaces
0.48-0.52	PA in shopping malls, public offices
0.44-0.48	PA in difficult acoustic environments
<0.40	Not suitable for PA systems



1 FLOOR PLAN W/ SPEECH INTELLIGIBILITY
AC-01.1 3/32" = 1'-0"

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No.	Revision	Date
1		
2		
3		
Description: FLOOR PLAN		
Scale: 3/32" = 1'-0"		
Sheet No: AC-01.1		
2/25/2021		

Legend

STI Range

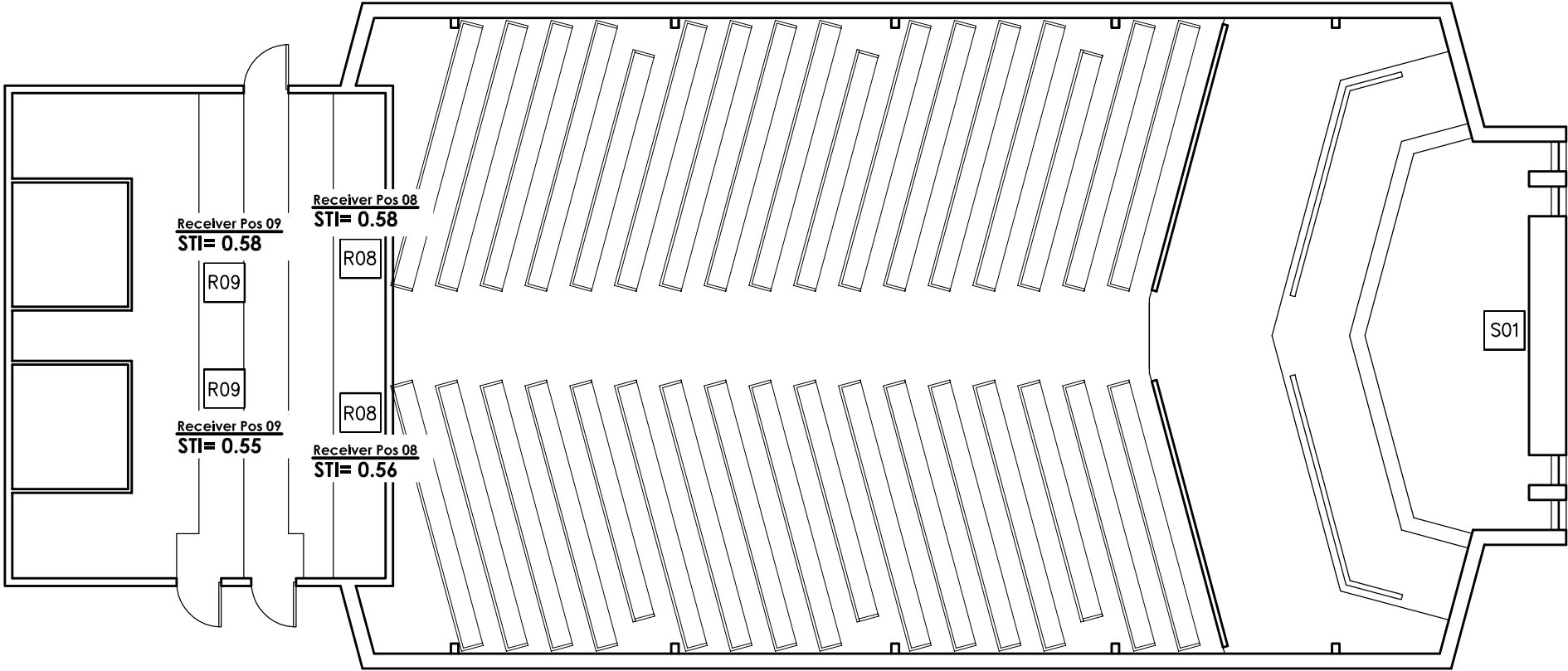
>0.76
0.68-0.76
0.64-0.68
0.60-0.64
0.56-0.60
0.52-0.56
0.48-0.52
0.44-0.48
<0.40

Examples of typical uses

Recording Studios
Theatres, speech auditoria, parliaments, courts
Teleconference, theatres
Class rooms, concert halls
Contemporary worship spaces, concert halls
Traditional worship spaces
PA in shopping malls, public offices
PA in difficult acoustic environments
Not suitable for PA systems

Receiver Pos 11
STI= 0.67

S01

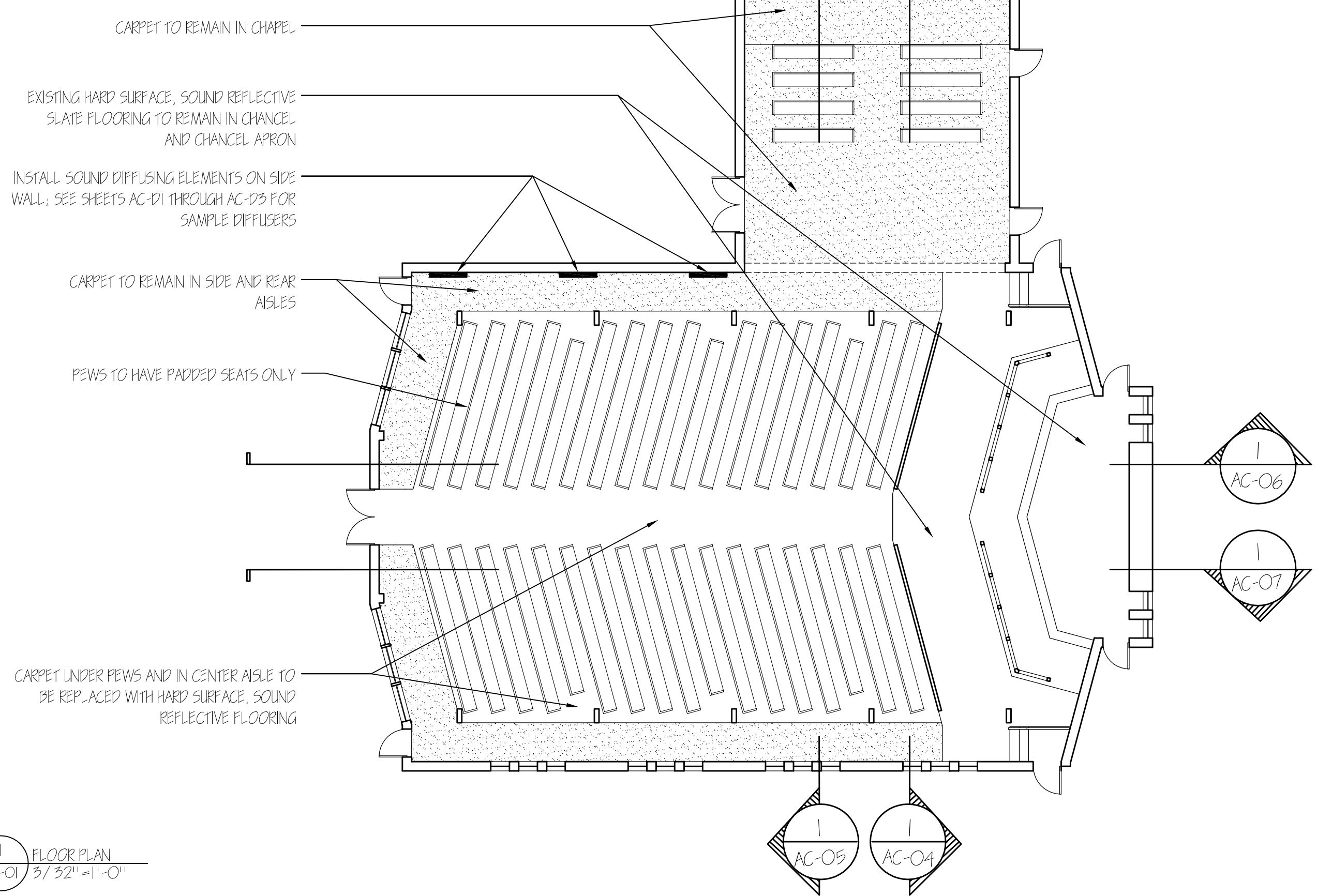


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No.	Revision	Date
1		
2		
3		
Description: FLOOR PLAN		
Scale: 3/32" = 1'-0"		
Sheet No: AC-01.2		
2/25/2021		

NOTE :
ALL CARPET IN WORSHIP SPACE AND CHAPEL TO BE 1/8"
LOW PILE, LEVEL LOOP DIRECTLY ADHERED TO
SUBFLOOR, NO PADDING



1 FLOOR PLAN
AC-01 3/32" = 1'-0"

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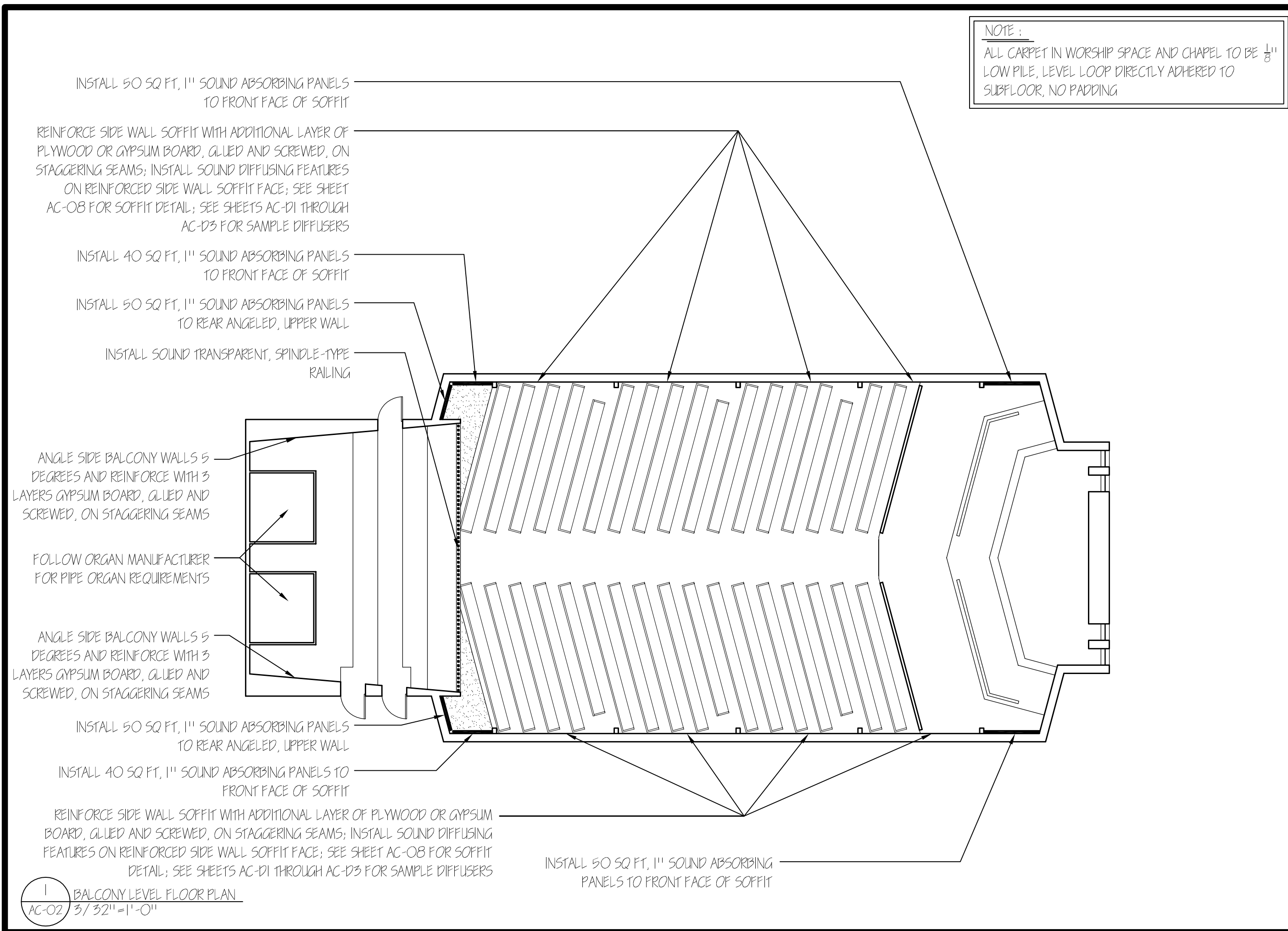
No.	Revision	Date
1		
2		
3		

Description:
FLOOR PLAN

Scale:
3/32" = 1'-0"

Sheet No:
AC-01

2/25/2021



NOTE :
ALL CARPET IN WORSHIP SPACE AND CHAPEL TO BE $\frac{1}{8}$ "
LOW PILE, LEVEL LOOP DIRECTLY ADHERED TO
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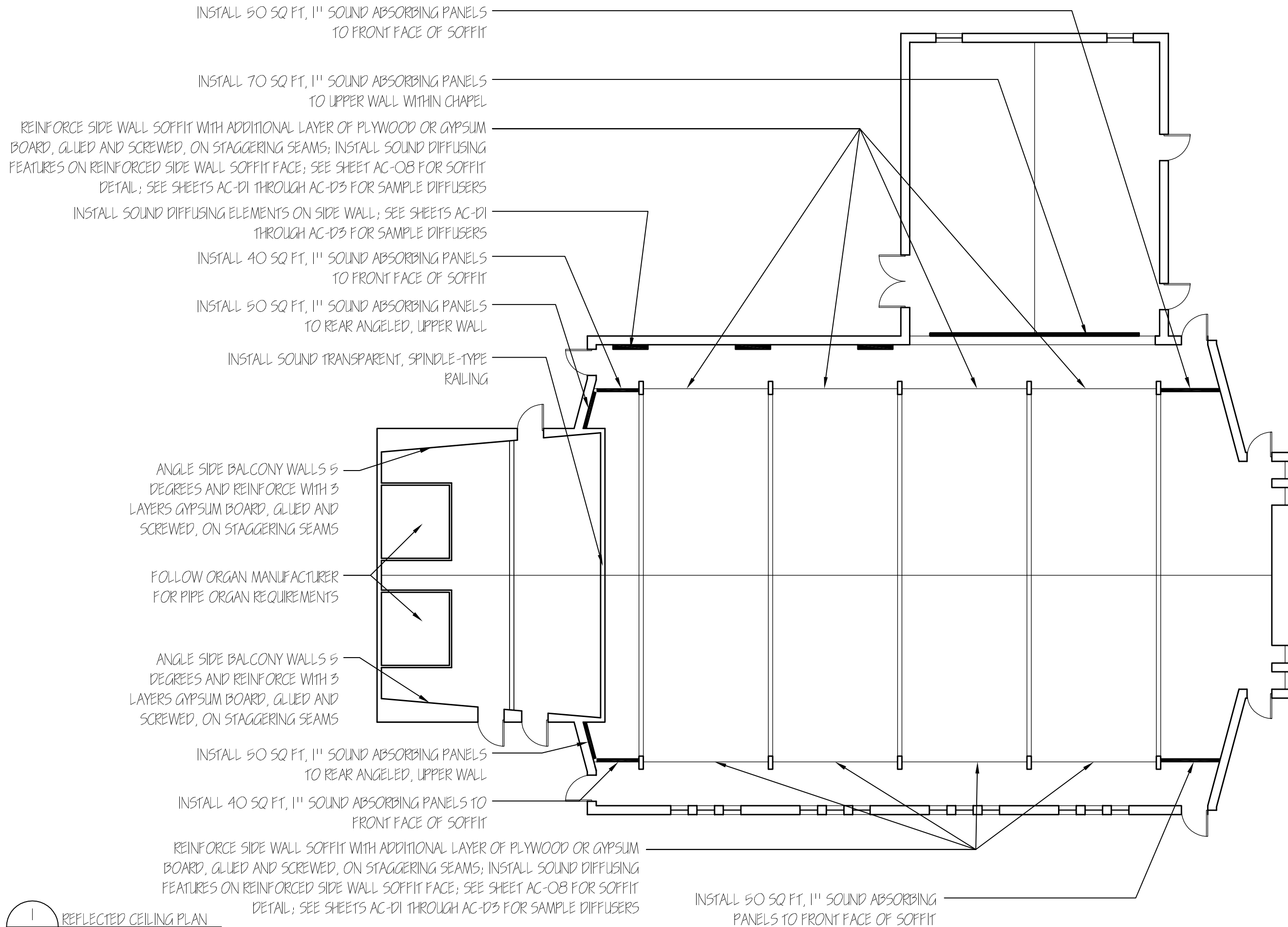
No.	Revision	Date
1		
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Description:
FLOOR PLAN

Scale:
 $\frac{3}{32}" = 1'-0"$

Sheet No:
AC-02

2/25/2021



INSTALL 50 SQ FT, 1" SOUND ABSORBING PANELS
TO FRONT FACE OF SOFFIT

INSTALL 70 SQ FT, 1" SOUND ABSORBING PANELS
TO UPPER WALL WITHIN CHAPEL

REINFORCE SIDE WALL SOFFIT WITH ADDITIONAL LAYER OF PLYWOOD OR GYPSUM
BOARD, GLUED AND SCREWED, ON STAGGERING SEAMS; INSTALL SOUND DIFFUSING
FEATURES ON REINFORCED SIDE WALL SOFFIT FACE; SEE SHEET AC-08 FOR SOFFIT
DETAIL; SEE SHEETS AC-D1 THROUGH AC-D3 FOR SAMPLE DIFFUSERS

INSTALL SOUND DIFFUSING ELEMENTS ON SIDE WALL; SEE SHEETS AC-D1
THROUGH AC-D3 FOR SAMPLE DIFFUSERS

INSTALL 40 SQ FT, 1" SOUND ABSORBING PANELS
TO FRONT FACE OF SOFFIT

INSTALL 50 SQ FT, 1" SOUND ABSORBING PANELS
TO REAR ANGELED, UPPER WALL

INSTALL SOUND TRANSPARENT, SPINDLE-TYPE
RAILING

ANGLE SIDE BALCONY WALLS 5
DEGREES AND REINFORCE WITH 3
LAYERS GYPSUM BOARD, GLUED AND
SCREWED, ON STAGGERING SEAMS

FOLLOW ORGAN MANUFACTURER
FOR PIPE ORGAN REQUIREMENTS

ANGLE SIDE BALCONY WALLS 5
DEGREES AND REINFORCE WITH 3
LAYERS GYPSUM BOARD, GLUED AND
SCREWED, ON STAGGERING SEAMS

INSTALL 50 SQ FT, 1" SOUND ABSORBING PANELS
TO REAR ANGELED, UPPER WALL

INSTALL 40 SQ FT, 1" SOUND ABSORBING PANELS TO
FRONT FACE OF SOFFIT

REINFORCE SIDE WALL SOFFIT WITH ADDITIONAL LAYER OF PLYWOOD OR GYPSUM
BOARD, GLUED AND SCREWED, ON STAGGERING SEAMS; INSTALL SOUND DIFFUSING
FEATURES ON REINFORCED SIDE WALL SOFFIT FACE; SEE SHEET AC-08 FOR SOFFIT
DETAIL; SEE SHEETS AC-D1 THROUGH AC-D3 FOR SAMPLE DIFFUSERS

INSTALL 50 SQ FT, 1" SOUND ABSORBING
PANELS TO FRONT FACE OF SOFFIT

1 REFLECTED CEILING PLAN
AC-03 3/32" = 1'-0"

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No.	Revision	Date
1		
2		
3		

Description:
RCP

Scale:
3/32" = 1'-0"

Sheet No:
AC-03

2/25/2021

INSTALL 50 SQ FT, 1" SOUND ABSORBING PANELS
TO FRONT FACE OF SOFFIT

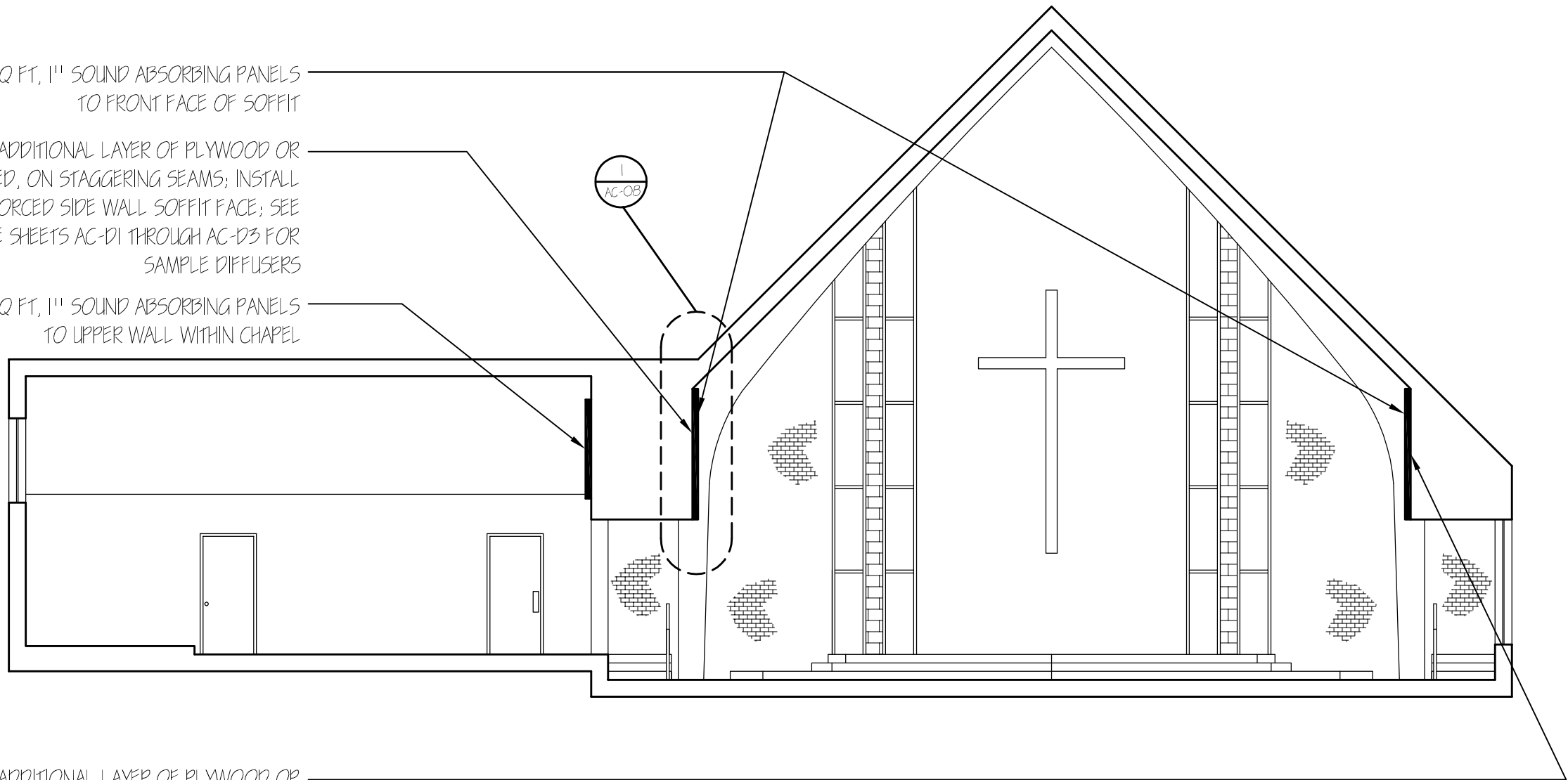
REINFORCE SIDE WALL SOFFIT WITH ADDITIONAL LAYER OF PLYWOOD OR
GYPSUM BOARD, GLUED AND SCREWED, ON STAGGERING SEAMS; INSTALL
SOUND DIFFUSING FEATURES ON REINFORCED SIDE WALL SOFFIT FACE; SEE
SHEET AC-08 FOR SOFFIT DETAIL; SEE SHEETS AC-D1 THROUGH AC-D3 FOR
SAMPLE DIFFUSERS

INSTALL 70 SQ FT, 1" SOUND ABSORBING PANELS
TO UPPER WALL WITHIN CHAPEL

REINFORCE SIDE WALL SOFFIT WITH ADDITIONAL LAYER OF PLYWOOD OR
GYPSUM BOARD, GLUED AND SCREWED, ON STAGGERING SEAMS; INSTALL
SOUND DIFFUSING FEATURES ON REINFORCED SIDE WALL SOFFIT FACE; SEE
SHEET AC-08 FOR SOFFIT DETAIL; SEE SHEETS AC-D1 THROUGH AC-D3 FOR
SAMPLE DIFFUSERS

1
AC-04

INTERIOR ELEVATION
1/8" = 1'-0"



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No.	Revision	Date
1		
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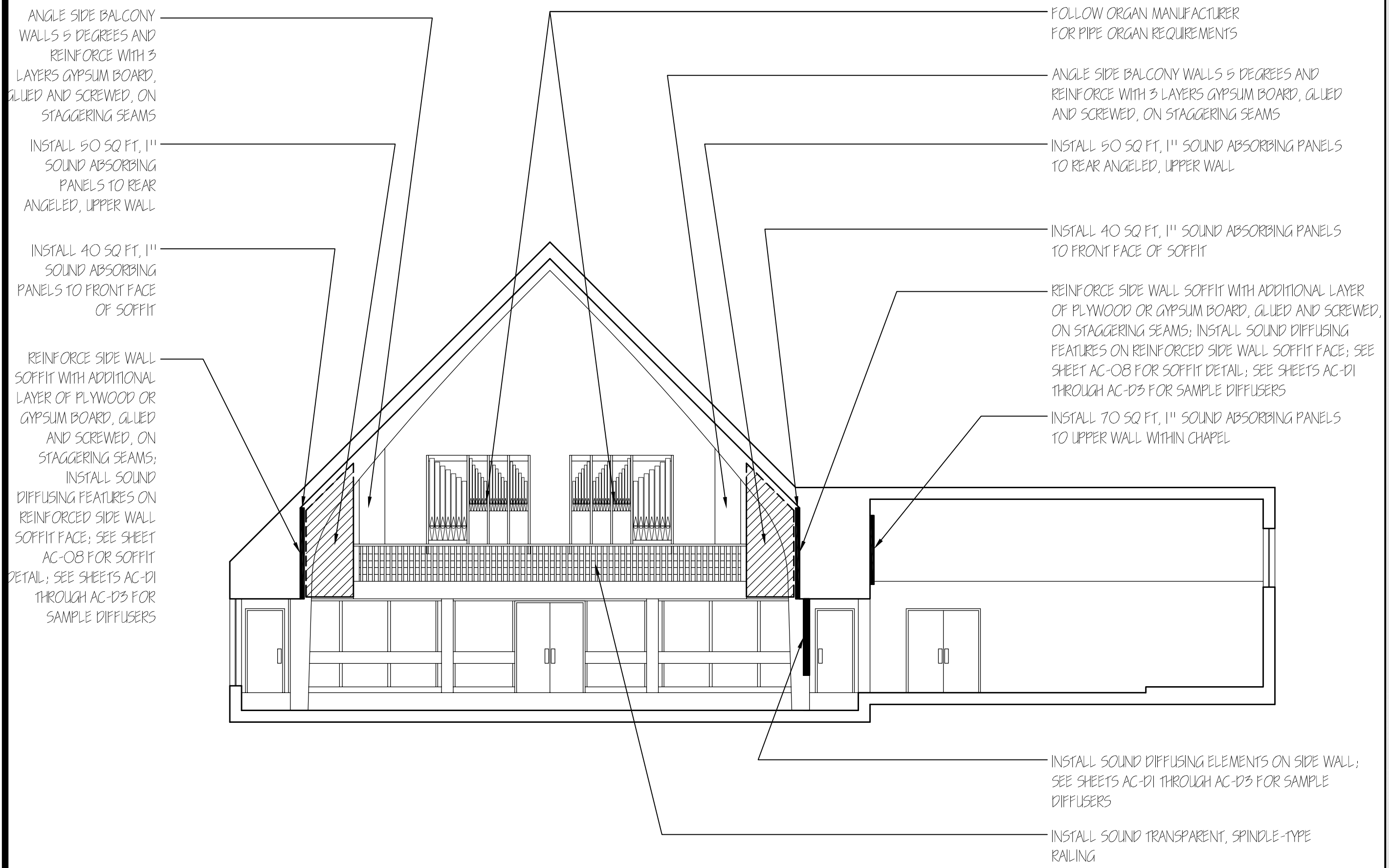
Description:
INTERIOR ELEV

Scale:
1/8" = 1'-0"

Sheet No:

AC-04

2/25/2021



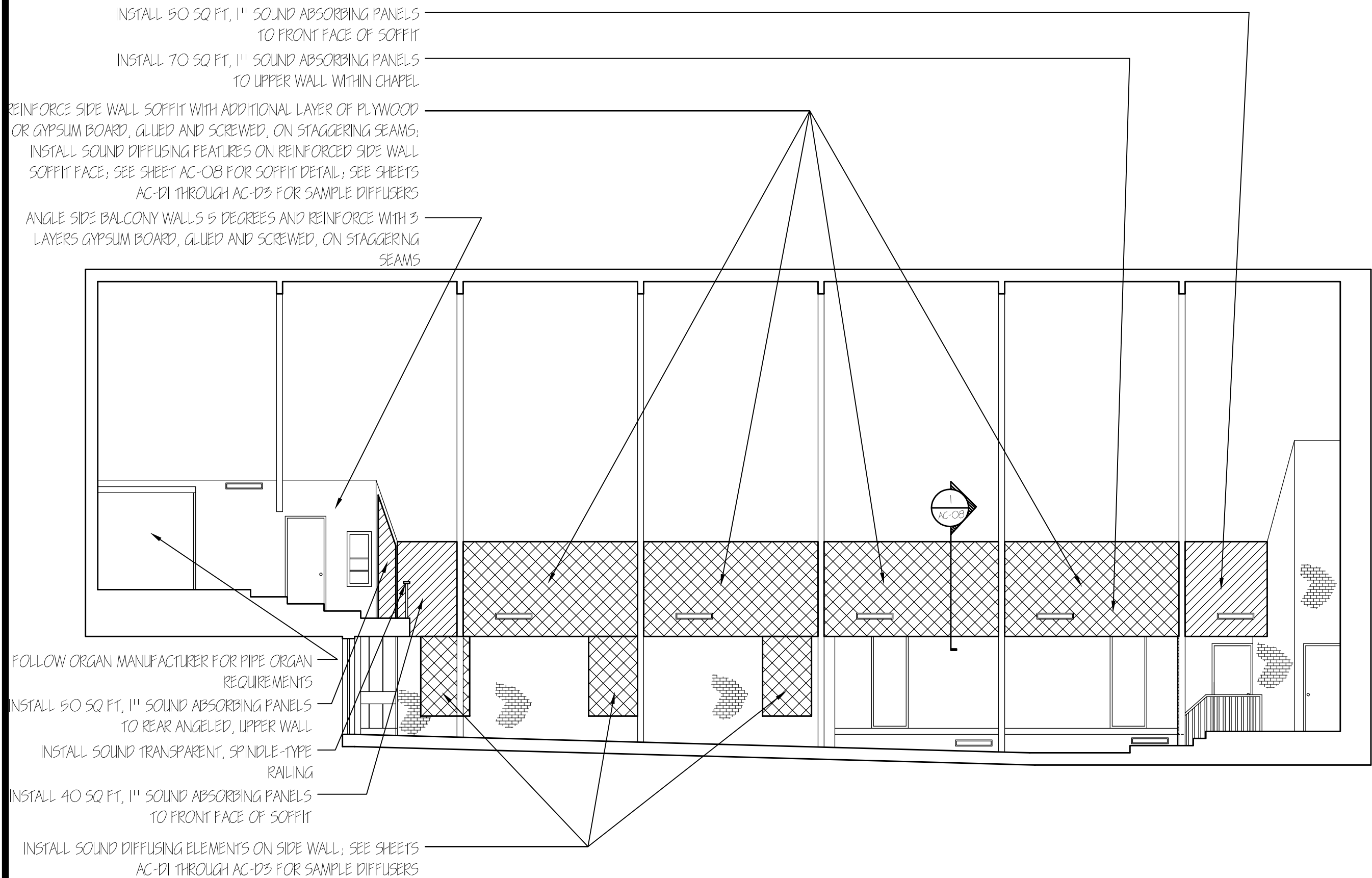
1
AC-05 INTERIOR ELEVATION
1/8" = 1'-0"

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No.	Revision	Date
1		
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3		
Description: INTERIOR ELEV		
Scale: 1/8" = 1'-0"		
Sheet No: AC-05		
2/25/2021		



1
AC-06

INTERIOR ELEVATION
1/8" = 1'-0"

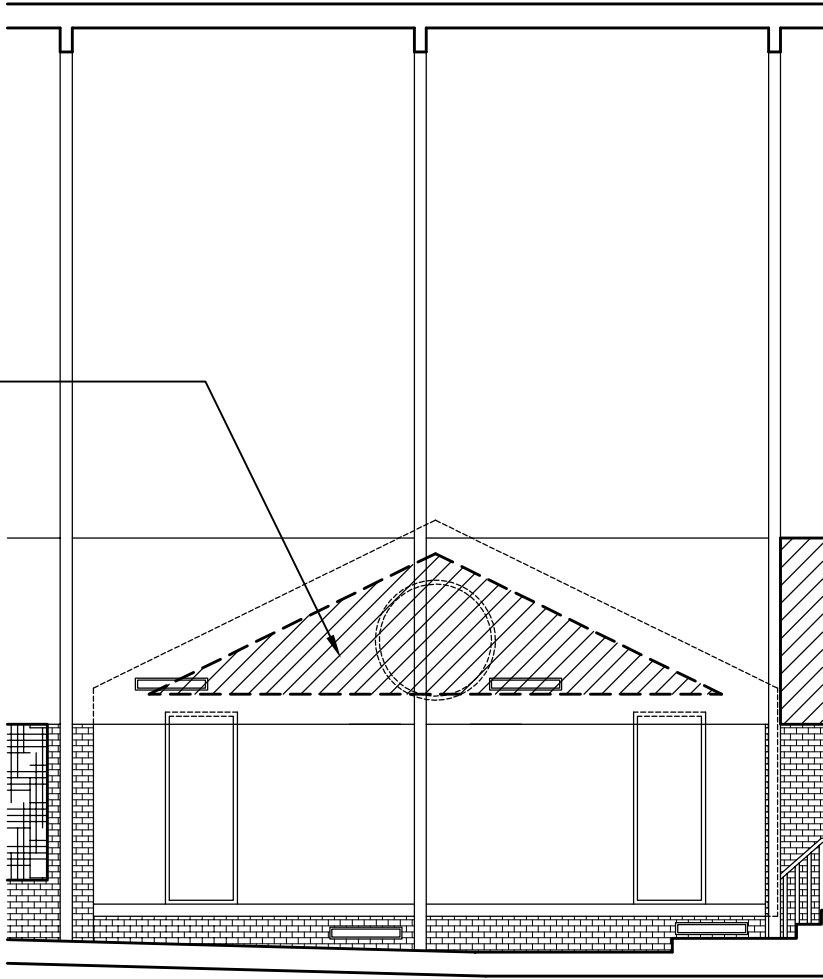
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No.	Revision	Date
1		
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Description: INTERIOR ELEV		
Scale: 1/8" = 1'-0"		
Sheet No: AC-06		
2/25/2021		

INSTALL 70 SQ FT, 1" SOUND ABSORBING PANELS
TO UPPER WALL WITHIN CHAPEL



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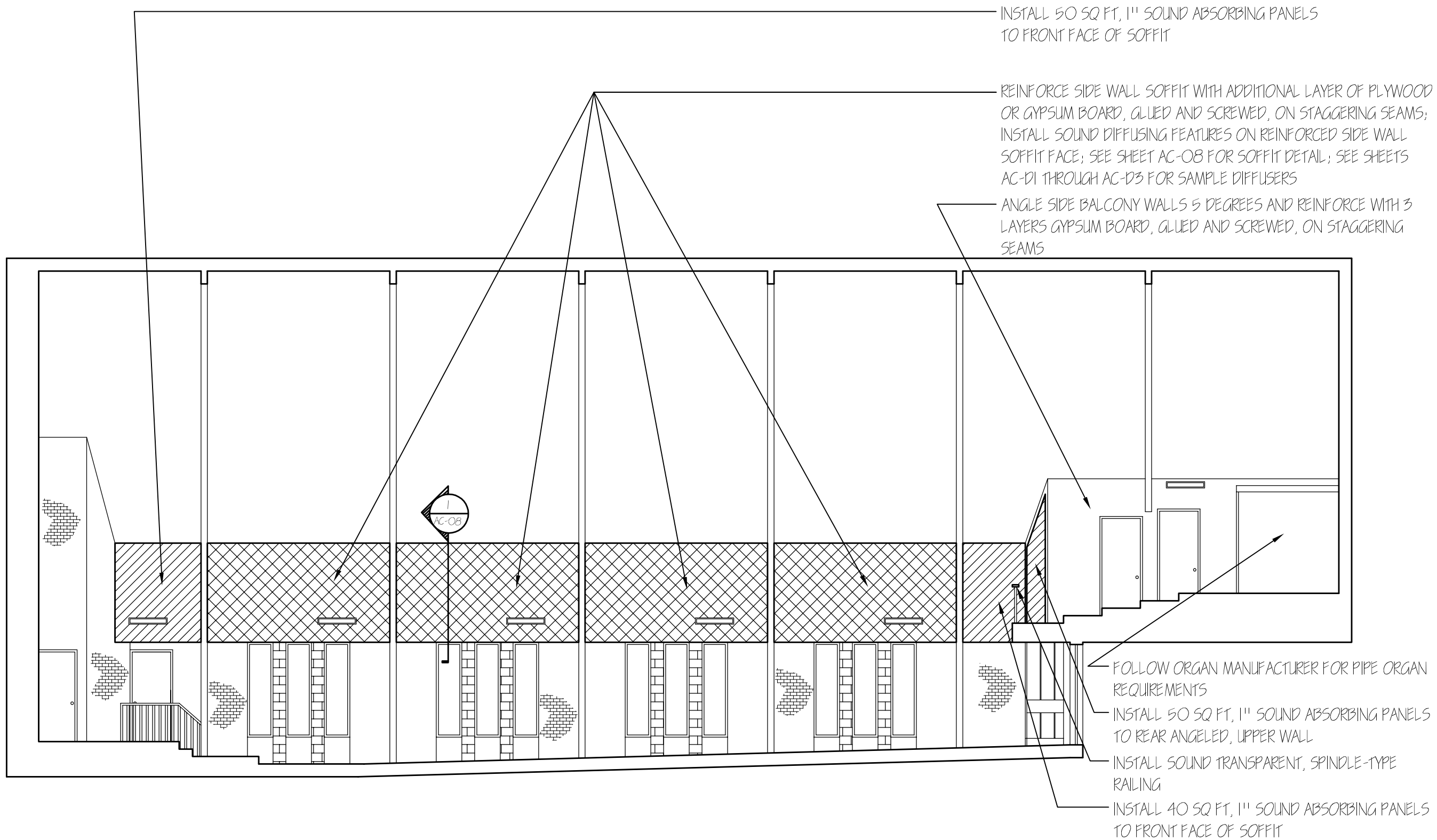
No.	Revision	Date
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Description:
INTERIOR ELEV

Scale:
1/8" = 1'-0"

Sheet No:
AC-06.1

2/25/2021



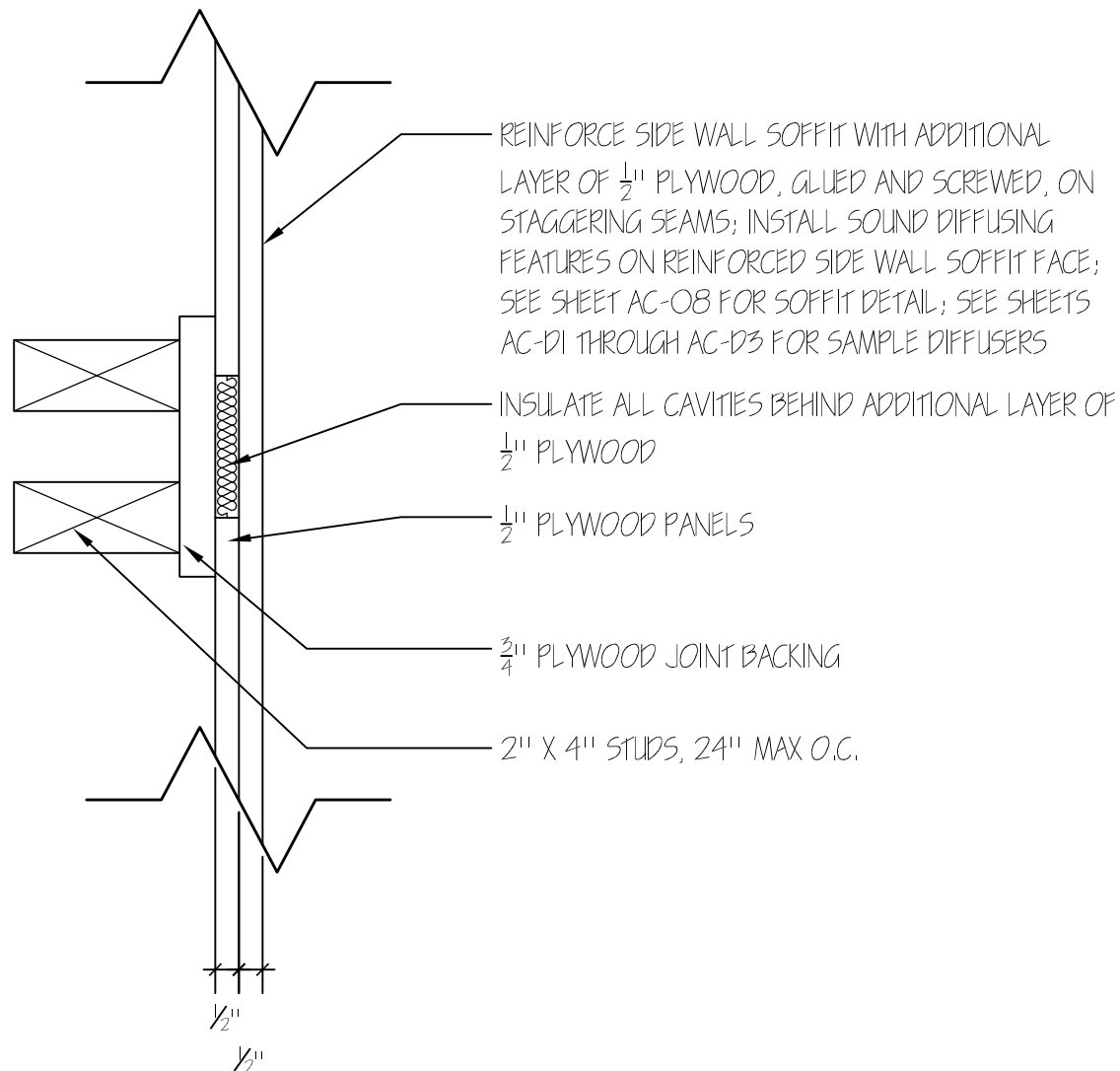
1
AC-07
INTERIOR ELEVATION
1/8" = 1'-0"

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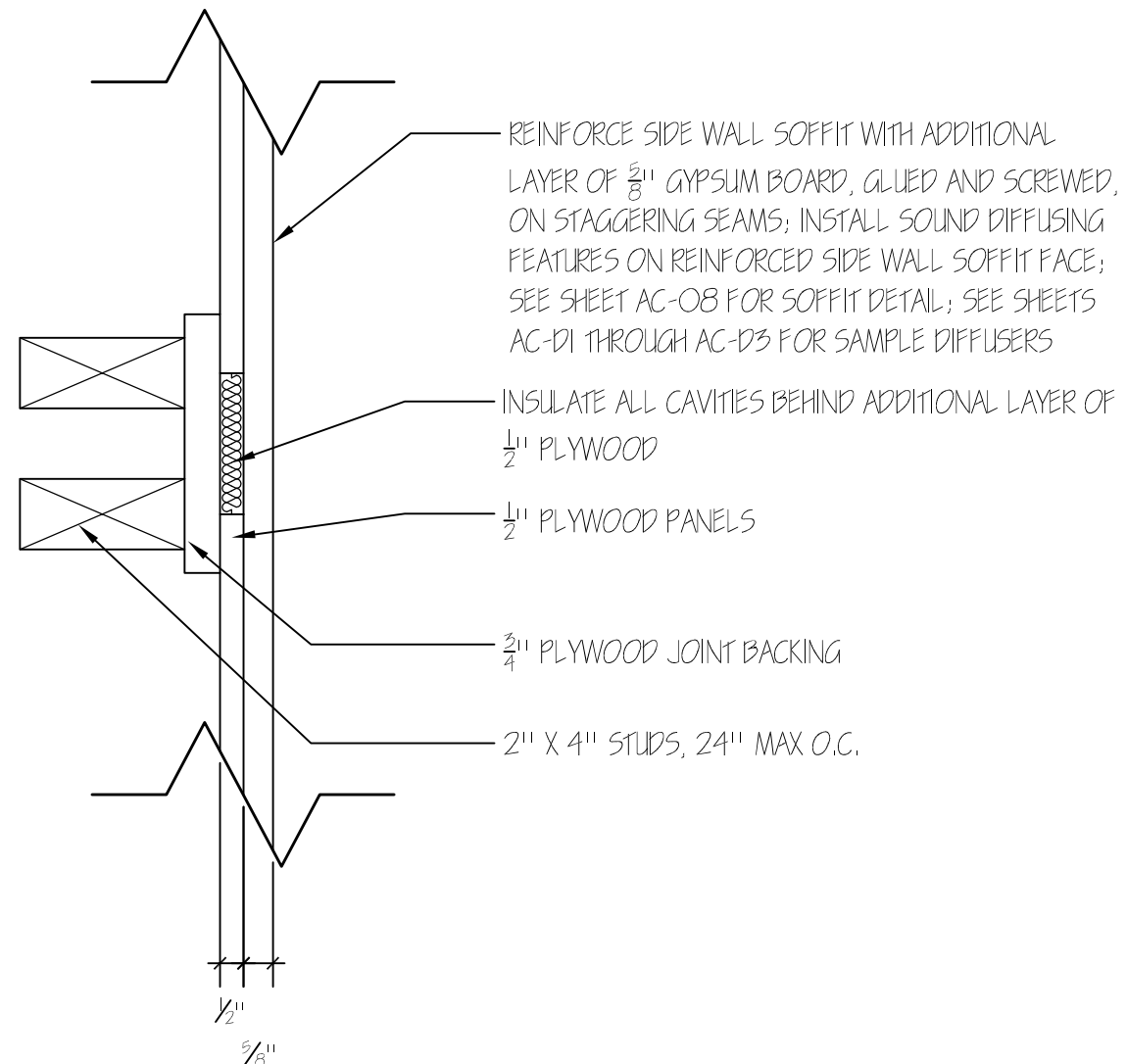
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No.	Revision	Date
1		
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3		
Description: INTERIOR ELEV		
Scale: 1/8" = 1'-0"		
Sheet No: AC-07		
2/25/2021		



1
AC-08 SOFFIT WITH ADDITIONAL LAYER OF PLYWOOD DETAIL
3" = 1'-0"



1
AC-08 SOFFIT WITH ADDITIONAL LAYER OF GYPSUM BOARD DETAIL
3" = 1'-0"

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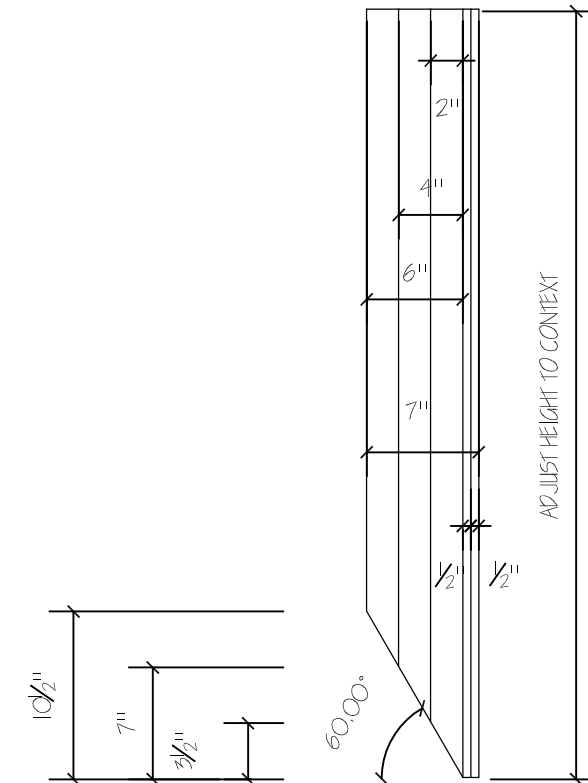
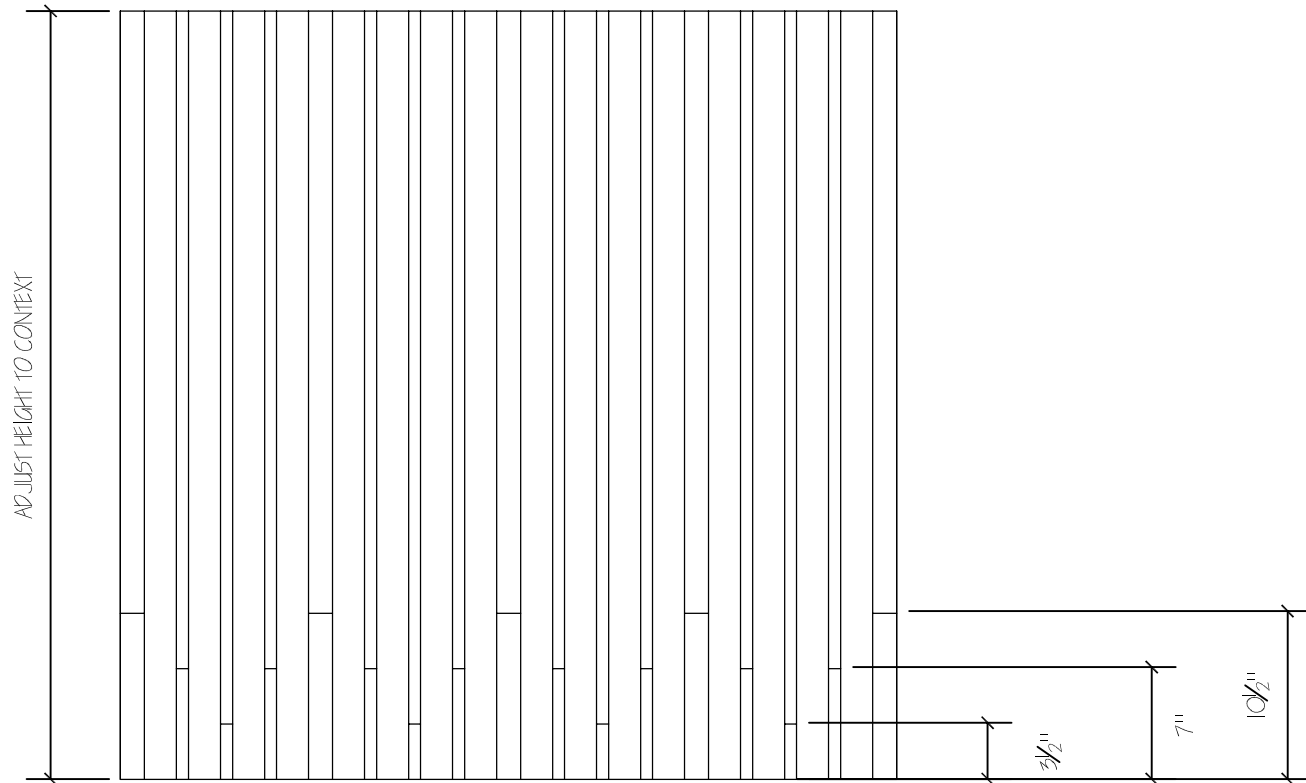
Description:
SOFFIT DETAIL

Scale:
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Sheet No:

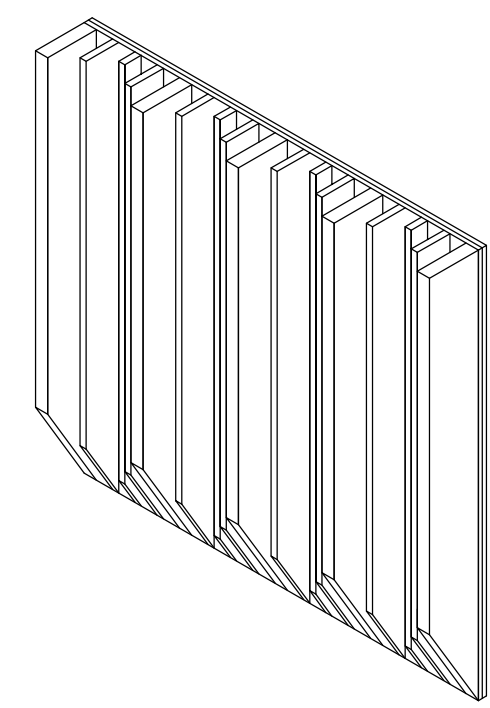
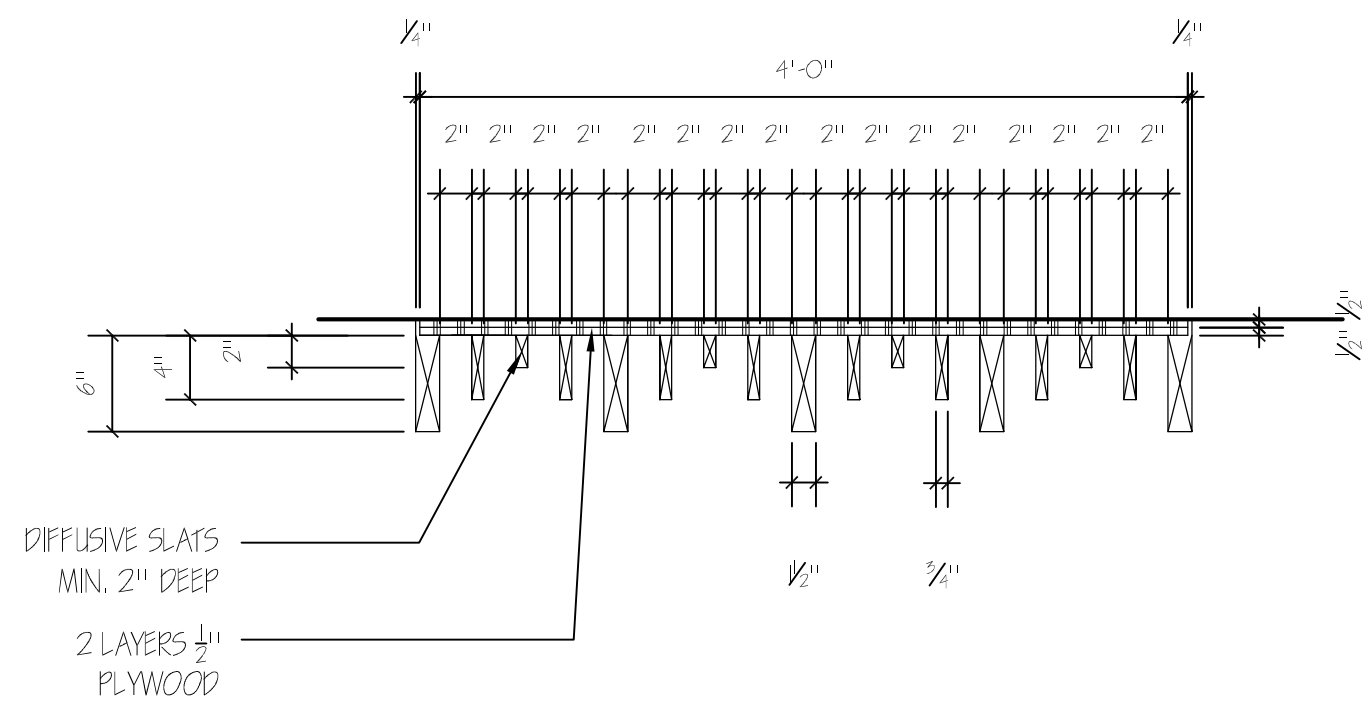
AC-08

2/25/2021



1
AC-D1
CONCEPTUAL SLAT DIFFUSER PANEL ELEVATION
1" = 1'-0"

3
AC-D1
CONCEPTUAL SLAT DIFFUSER PANEL SECTION
1" = 1'-0"



2
AC-D1
CONCEPTUAL SLAT DIFFUSER PANEL DETAIL
1" = 1'-0"

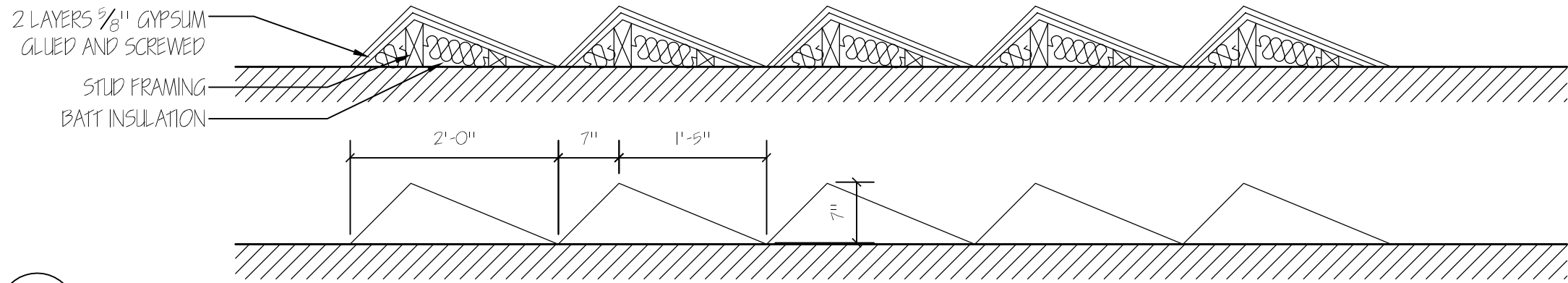
4
AC-D1
CONCEPTUAL SLAT DIFFUSER PANEL AXON
NTS

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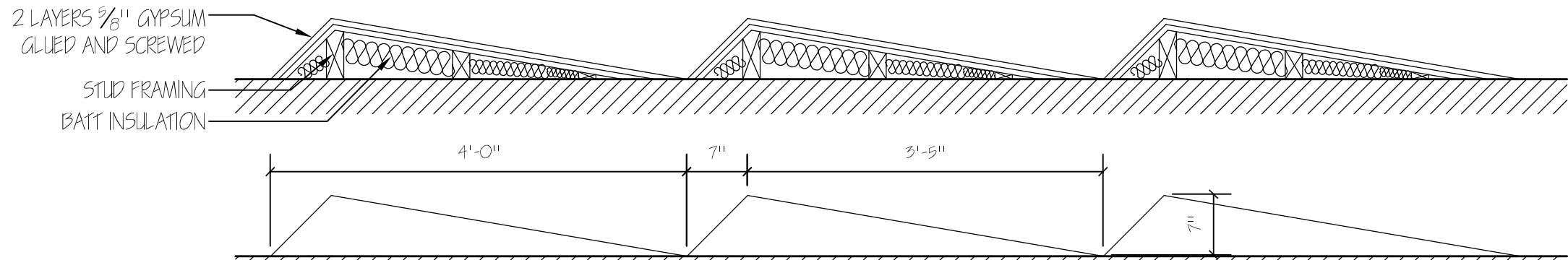
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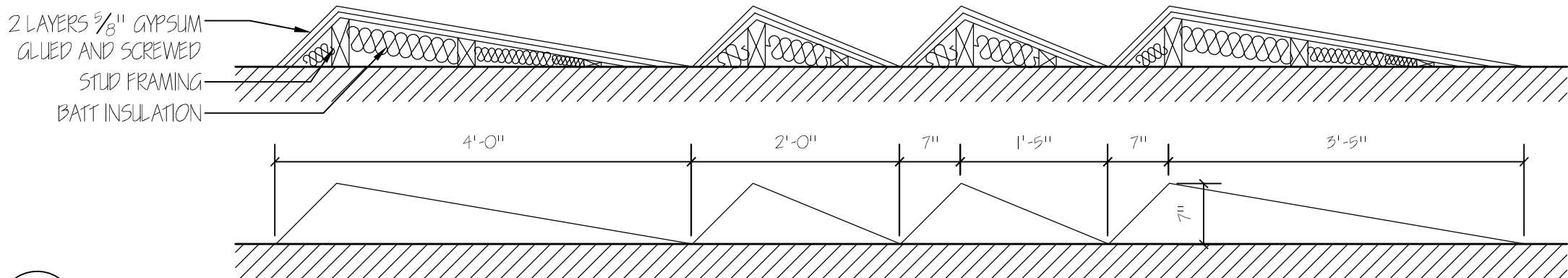
Project Name and Address		
ACOUSTIC DIFFUSION EXAMPLES		
SLATTED		
No.	Revision	Date
1		
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3		
Description: Sample Diffusers		
Scale: PER DRAWING		
Sheet No: AC-D1		
1/14/2021		



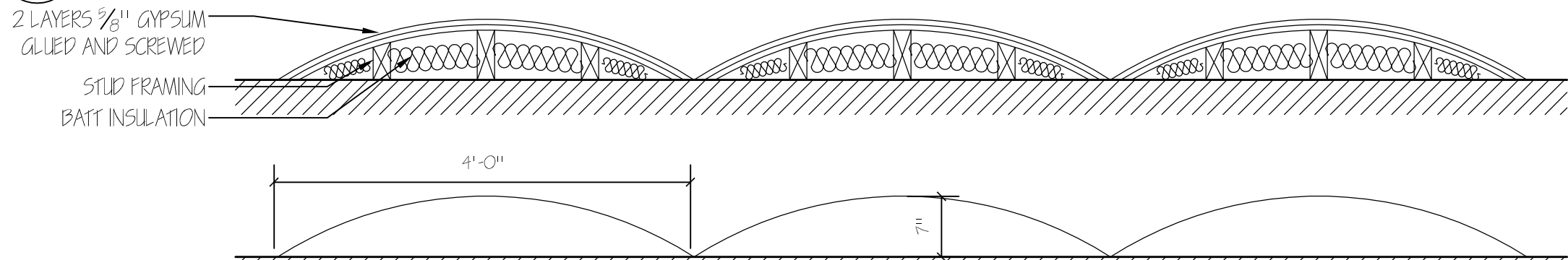
1 2' WIDE WEDGE DIFFUSER CONSTRUCTION DETAIL
AC-D2 3/4" = 1'-0"



2 4' WIDE WEDGE DIFFUSER CONSTRUCTION DETAIL
AC-D2 3/4" = 1'-0"

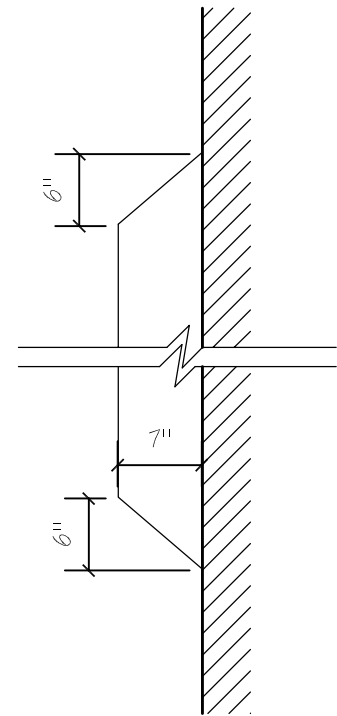


3 POSSIBLE COMBINATION OF 2' WIDE AND 4' WIDE WEDGE DIFFUSERS CONSTRUCTION DETAIL
AC-D2 3/4" = 1'-0"



4 4' WIDE ROUND DIFFUSER CONSTRUCTION DETAIL
AC-D2 3/4" = 1'-0"

5 WEDGE DIFFUSER SIDE VIEW
AC-D2 3/4" = 1'-0"



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ACOUSTIC DIFFUSION EXAMPLES

WEDGE AND CONVEX

No.	Revision	Date
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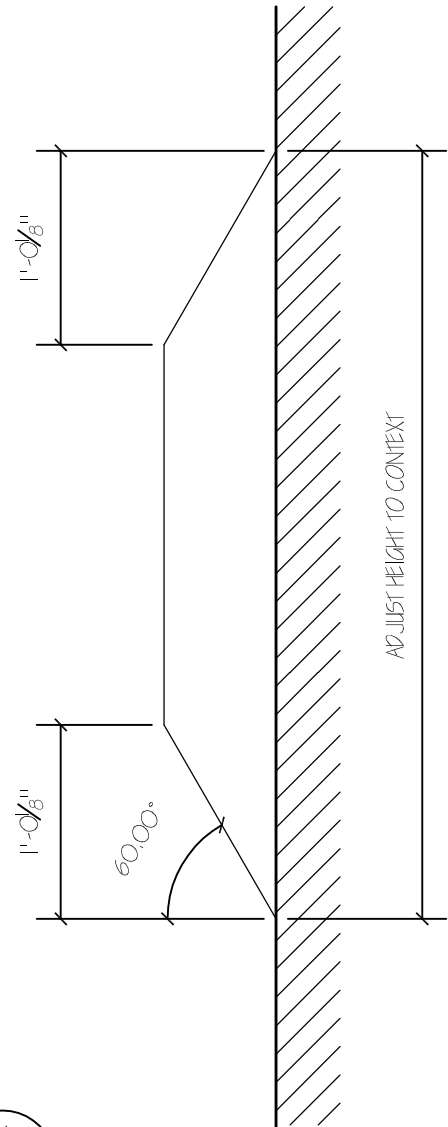
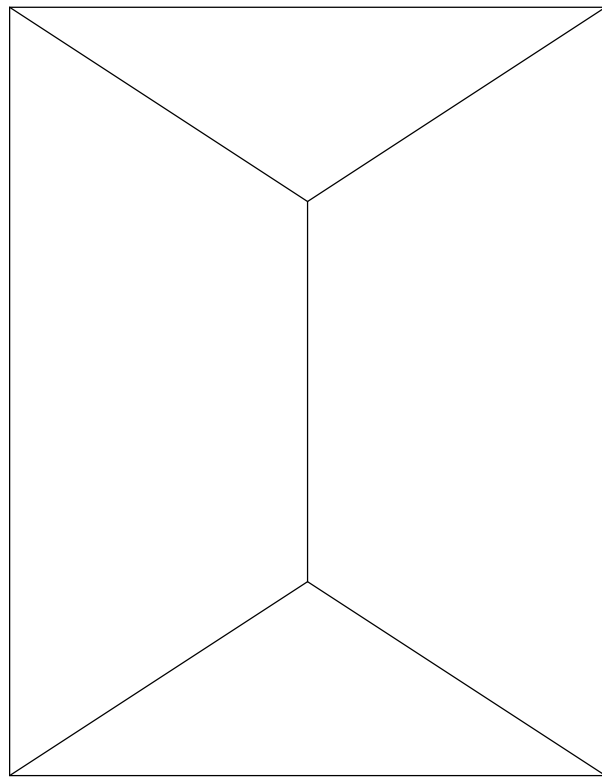
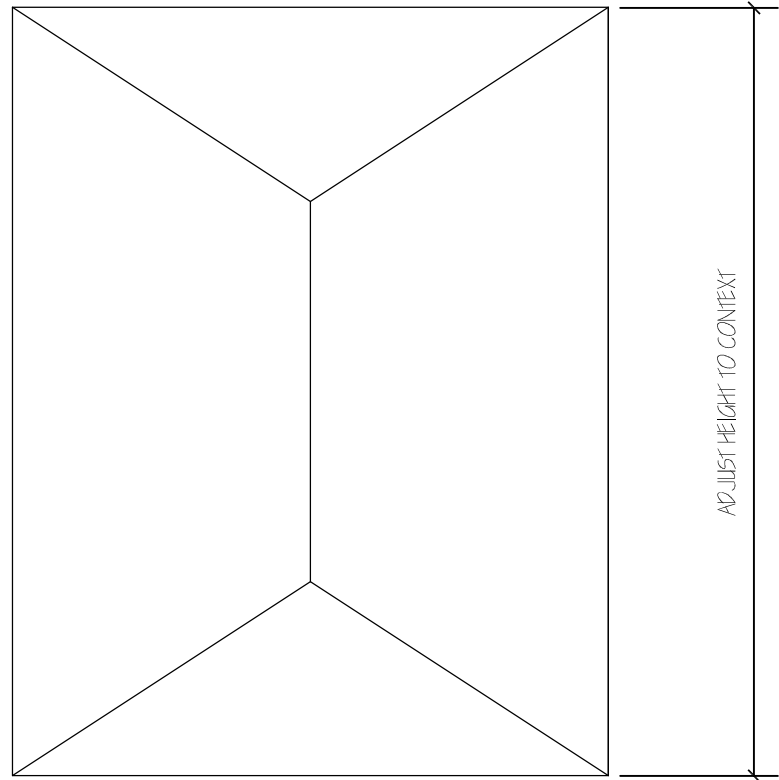
Description:
Sample Diffusers

Scale:
3/4" = 1'-0"

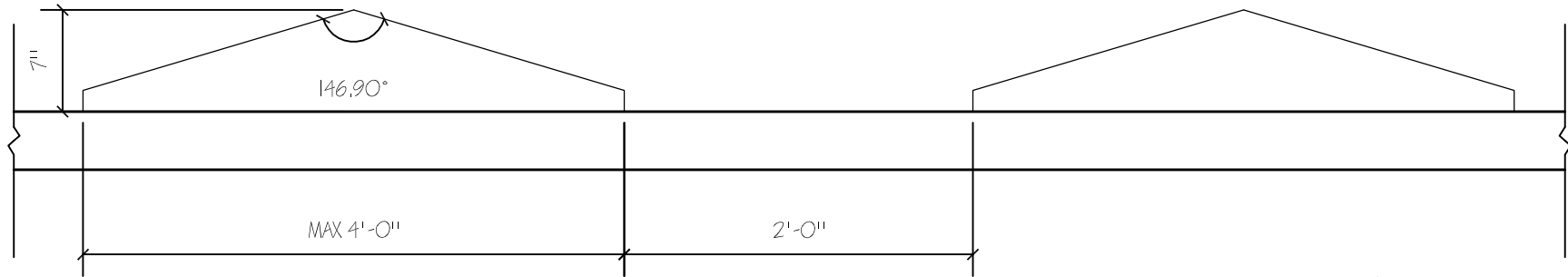
Sheet No:

AC-D2

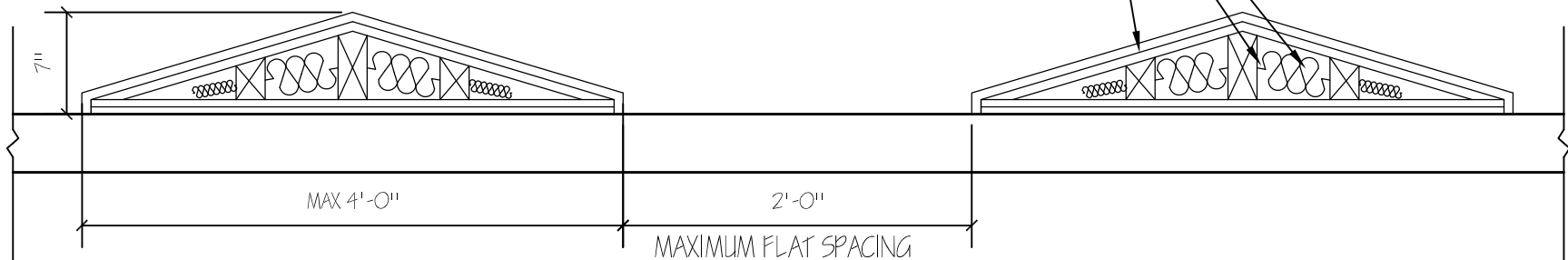
1/14/2021



1 STANDARD GYPSUM WEDGE DIFFUSORS
AC-D3 1"=1'-0"

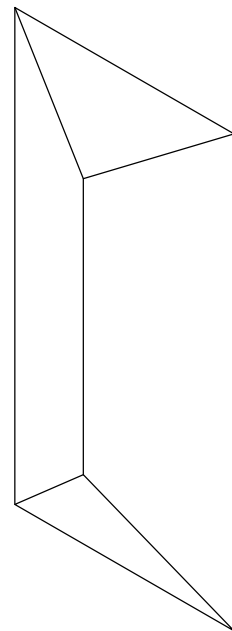


2 STANDARD GYPSUM WEDGE DIFFUSORS
AC-D3 1"=1'-0"



3 STANDARD GYPSUM WEDGE DIFFUSORS
AC-D3 1"=1'-0"

4 WEDGE DIFFUSER SIDE VIEW
AC-D3 1"=1'-0"



4 WEDGE DIFFUSER AXON
AC-D3 NTS

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ACOUSTIC DIFFUSION EXAMPLES
SYMMETRICAL WEDGES

No.	Revision	Date
1		
2		
3		

Description:
Sample Diffusers

Scale:
PER DRAWING

Sheet No:
AC-D3

1/14/2021