



Fantasy Marble, LLC

Model Designation: Panel System with Metal Studs

Client Package

Fenestration Testing Laboratory
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Medley, Florida 33166
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Test Report and Drawings



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

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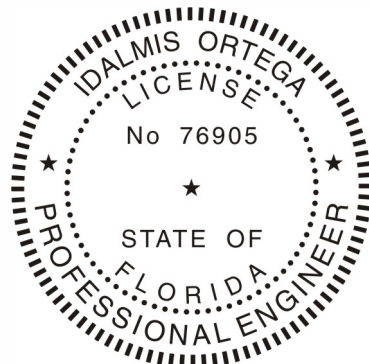
Cert. No: 16-0425.08
Report Date: 6/27/2018
Completion Date: 5/29/2019
Expiration Date: 5/29/2029
Auth. No: FTL-18869
Page No: 1 of 6
Lab. Number: 10701
Project Number: 18-8483

OFFICIAL TEST REPORT

MANUFACTURER: Fantasy Marble LLC **SPECIFICATIONS:** Florida Building Code
ADDRESS: 400 S. Andrews Ave #5 TAS 201, TAS 202 and TAS 203
Pompano Beach, Florida 33069 **PROJECT:** Miami Dade County

Table of Contents	Page	Rev
Revision Table	2	
Notes Table	2	
Remarks Table	2	
Sample A-1		
Description of Test Sample	3	
Sealants	3	
Additional Information	3	
Test Sample Installation	3	
Results Sample A-1		
Air Infiltration	ASTM E283	3
Air Infiltration	ASTM E283	3
1/2 Structural Load Test Positive	TAS 202	3
Design Load Test Positive	TAS 202	4
1/2 Structural Load Test Negative	TAS 202	4
Design Load Test Negative	TAS 202	4
Water Resistance Test	ASTM E331	4
Uniform Structural Load Test Positive	TAS 202	4
Uniform Structural Load Test Negative	TAS 202	5
Uniform Structural Load Test Negative	TAS 202	5
Large Missile Impact	TAS 201	5
Cyclic Positive Load	TAS 203	5
Cyclic Negative Load	TAS 203	6
Appendix A		6
Appendix B		6

Professional Engineer:
Idalmis Ortega, P.E.
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Page No: 2 of 6
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Revision	Description	Author	Effective Date
0	Initial Release	Ms. Lusinda Delgado	6/27/2019

Notes

* designates measurements by laboratory

** as per manufacturer

Fenestration Testing Laboratory Inc., does not have, nor does it intend to acquire or will acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the Fenestration Testing Laboratory Inc. Fenestration Testing Laboratory Inc., is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.

Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Test results obtained represent the actual value of the tested specimens and do not constitute opinion, endorsement or certification by this laboratory.

This test report is considered the exclusive property of the client named herein and is applicable to the sample tested. This report may not be reproduced without the approval of Fenestration Testing Laboratory, Inc.

At conclusion of above tests, there was no apparent damage to fasteners and after impact there was no penetration to the panel. Test specimens were covered with 1.5 mil plastic sheeting to seal from air leakage when load test were performed, however this had no effect on above results.

Remarks

Detailed drawings and digital video disc of testing will be retained by Fenestration Testing Laboratory for a period of five years from the original test date, and test report for a period of ten years. Due to the code cycle change of four years, it is recommended that this report be evaluated during the lifespan of this document.

This product was tested in accordance with the Florida Building Code (2017) TAS 201, 202 and 203, with the deviation that only one sample was tested. Sample tested meets Section 1626 (impact and cycling) of this Code.

Testing was conducted as per instructions received from the manufacturers company representative and unsigned test plan/drawings dated October 31, 2018.



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OFFICIAL TEST REPORT

DESCRIPTION OF SAMPLE	
Model Designation:	Panel System with Metal Studs
Overall Size:	14'-6 3/8" (174 3/8") by 9'-4 3/8" (112 3/8") high
Number of Panels:	Three
Size of Panels:	4'-8" (56") by 9'-10" (118") long
Sample A-1	

Sealants	
Sealant Color	Location
White	Panel vertical and horizontal seams with backer rod

Additional Information
Wall Construction: 18 gauge metal stud wall with studs spaced 16" on center.

Sample Installation
The sample was installed onto a 18 gauge metal stud wall using an extruded aluminum track, item 1. The tracks are full length and located from bottom at 4", 28", 52", 60 3/8", 84 3/8" and 108 3/8". The tracks are fastened to each stud using one NO. 12 by 1 1/2" HWH SDS with neoprene washer. The panels have one 8" long extruded aluminum track (item 1) located from left 4", 26", 48", 70", 92", 114", 122 3/8", 146 3/8" and 170 3/8"; from bottom 4", 28", 52", 60 3/8", 84 3/8" and 108 3/8". The tracks are fastened to the panels using one **Tee-Nut with 1/4"-20 female thread fully bonded into a 7/8" hole using epoxy adhesive and one 1/4-20 by 5/8" TH MS.

Sample: A-1	Temperature: 76.4°F	Barometric Reading: 29.9 inches Hg	
Notes:			
Title of Test	Pressure	Reading	Results
Air Infiltration Test: (ASTM E283)	1.57 psf	0.0 cfm/sq.ft	Passed

Sample: A-1	Temperature: 76.4°F	Barometric Reading: 29.9 inches Hg	
Notes:			
Title of Test	Pressure	Reading	Results
Air Infiltration Test: (ASTM E283)	6.24 psf	0.0 cfm/sq.ft	Passed

Sample: A-1	Temperature: 76.4°F	Barometric Reading: 29.9 inches Hg
Title of Test	Pressure	Notes
1/2 Structural Load Test Positive Load	105.0 psf	
	Results	Passed



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Page No: 4 of 6
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Sample: A-1	Temperature: 76.4°F	Barometric Reading: 29.9 inches Hg		
Title of Test		Pressure	Notes	
Design Load Test Positive Load		140.0 psf		
See appendix A for deflection points				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	0.161"	0.004"	Passed	Edge of panel
2	0.201"	0.002"	Passed	Center of panel
3	0.210"	0.010"	Passed	Edge of panel

Sample: A-1	Temperature: 78.3°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Pressure	Notes	
1/2 Structural Load Test Negative Load		105.0 psf		
		Results	Passed	

Sample: A-1	Temperature: 78.3°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Pressure	Notes	
Design Load Test Negative Load		140.0 psf		
See appendix A for deflection points				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	0.249"	0.008"	Passed	Edge of panel
2	0.253"	0.010"	Passed	Center of panel
3	0.281"	0.015"	Passed	Edge of panel

Sample: A-1	Temperature: 78.3°F	Barometric Reading: 30.0 inches Hg		
Notes:				
Title of Test	Pressure		Results	Add. Info
Water Resistance Test	21.0 psf	15 minutes	Passed	ASTM E331

Sample: A-1	Temperature: 78.3°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Pressure	Notes	
Uniform Structural Test Positive Load		210.0 psf		
See appendix A for deflection points				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	0.391"	0.028"	Passed	Edge of panel
2	0.426"	0.035"	Passed	Center of panel
3	0.418"	0.031"	Passed	Edge of panel



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Sample: A-1	Temperature: 78.3°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Pressure	Notes	
Uniform Structural Test Negative Load		210.0 psf		
See appendix A for deflection points				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	0.508"	0.036"	Passed	Edge of panel
2	0.538"	0.042"	Passed	Center of panel
3	0.505"	0.040"	Passed	Edge of panel

Sample: A-1	Temperature: 75.3°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Pressure	Notes	
Uniform Structural Test Negative Load		218.0 psf	Sample failed the fasteners to the track/stud pulled out and some of the metal studs bent.	

Sample: A-1	Temperature: 78.2°F	Barometric Reading: 29.9 inches Hg		
Title of Test		Notes		
Large Missile Impact Test				
Missile Weight		Missile		
9.25 pounds		2" by 4" by 94" long		
See appendix B for impact points				
Impact	Speed	Results	Add. Info	
1	50.4 ft/sec	Passed		
2	50.3 ft/sec	Passed		
3	50.8 ft/sec	Passed		
4	50.1 ft/sec	Passed		
5	50.3 ft/sec	Passed		
6	50.3 ft/sec	Passed		

Sample: A-1	Temperature: 80.4°F	Barometric Reading: 29.9 inches Hg				
Title of Test		Positive Pressure	Notes			
Cyclic Wind Load Test		140.0 psf				
See appendix A for deflection points						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	1.8 sec	1	0.580"	0.023"	Passed
0.0-0.6	70	1.9 sec	2	0.608"	0.026"	Passed
0.0-1.3	1	2.4 sec	3	0.623"	0.035"	Passed



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Sample: A-1		Temperature: 76.3°F		Barometric Reading: 30.1 inches Hg		
Title of Test		Negative Pressure		Notes		
Cyclic Wind Load Test		140.0 psf				
See appendix A for deflection points						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	1.3 sec	1	0.629"	0.029"	Passed
0.0-0.6	70	1.8 sec	2	0.658"	0.034"	Passed
0.0-1.3	1	2.8 sec	3	0.690"	0.039"	Passed

Witnessed by:

(All or Partial Viewing)

Ms. Idalmis Ortega, FTL P.E.

Mr. Daniel Mladin, (Fantasy Marble, LLC)

FENESTRATION TESTING LABORATORY, INC.

Mr. Jose Sanchez
President of Operations

Technicians:

Mr. Thomas Forrest

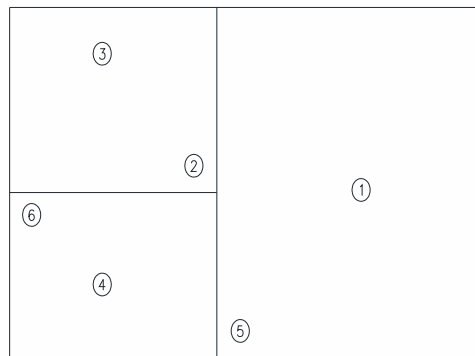
Mr. Ulyn henfield

Mr. Jose Sanchez

Appendix A




Appendix B



TESTING DRAWINGS

PANEL SYSTEM W/ METAL STUDS

10. 31. 2018

	FENESTRATION TESTING LABORATORY INC.
	LABORATORY NUMBER: 10701
	DATE: 6/27/2019
	DRAWINGS VERIFIED BY: LD

MCY ENGINEERING, INC.
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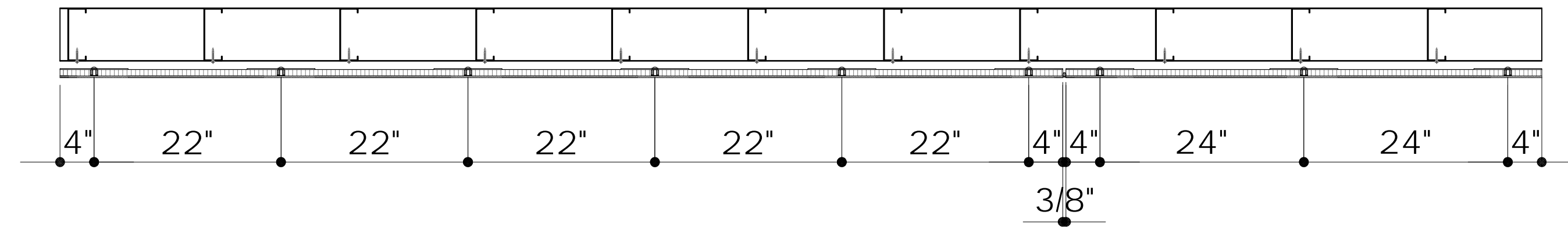
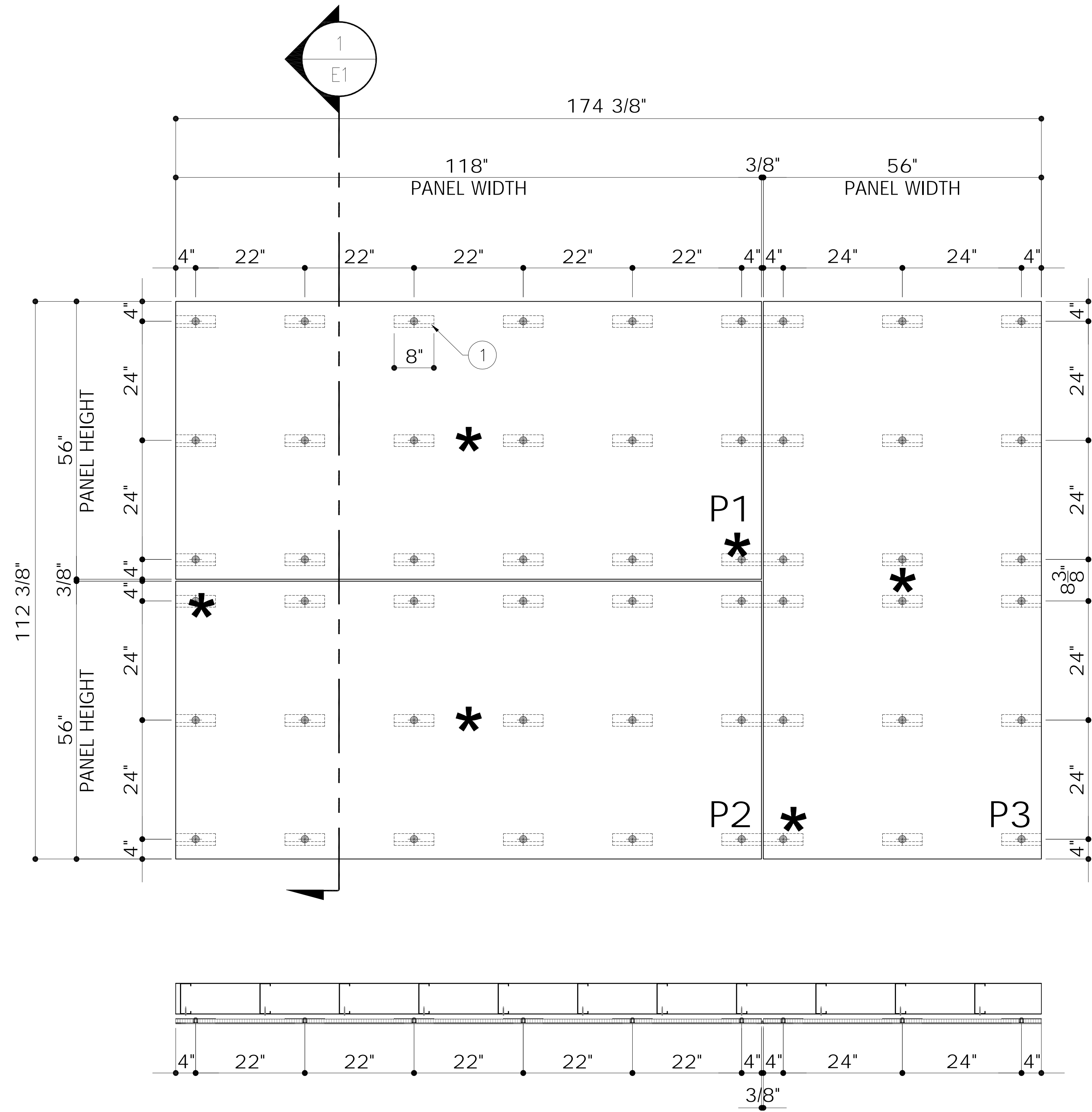
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 01 OF 05



SPECIMEN #1: TYPICAL EXTERIOR ELEVATION

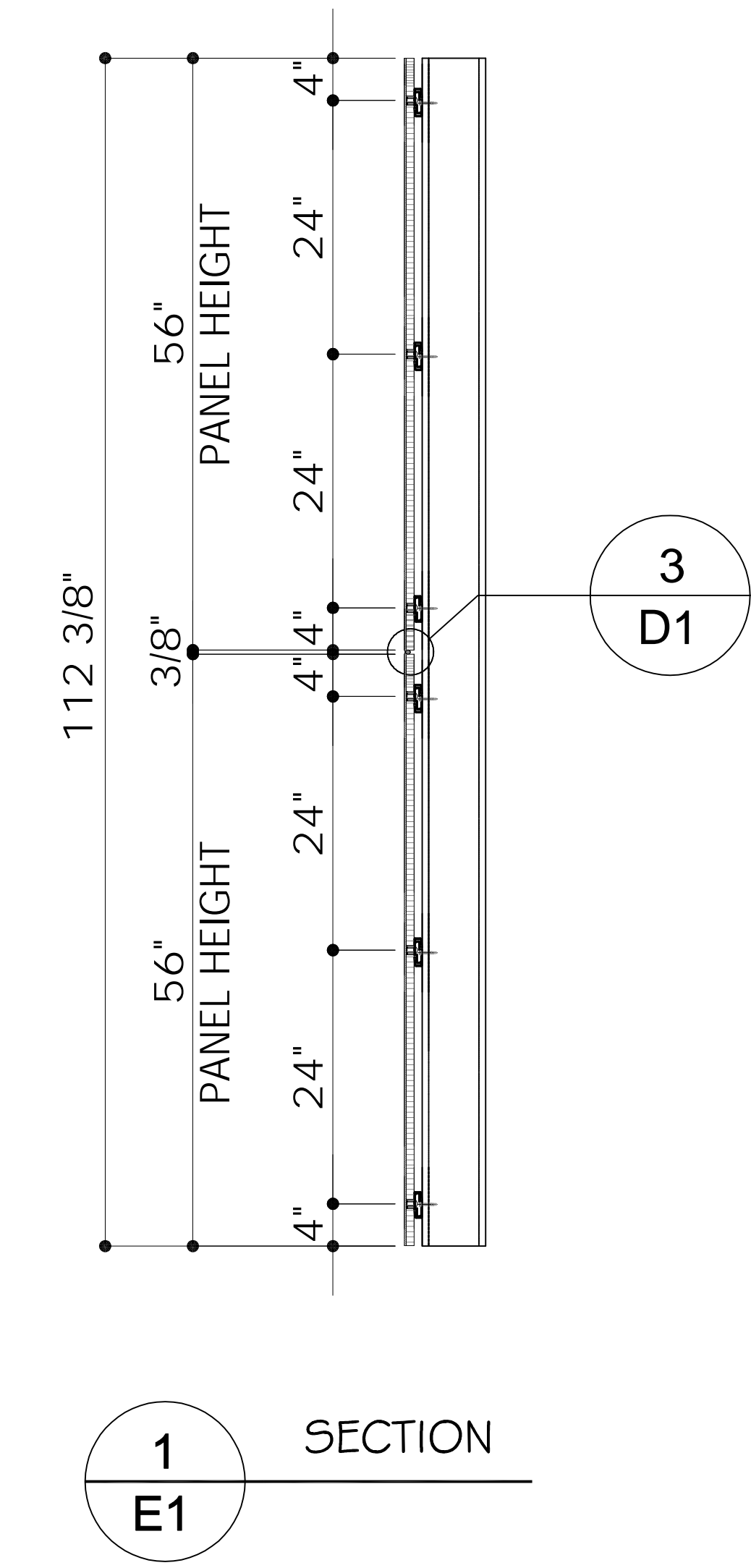
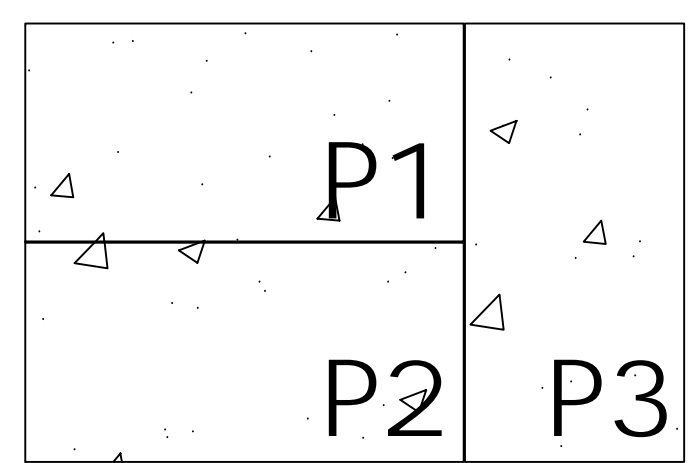
TAS 201 (LMI)
 TAS 202 (FULL)
 TAS 203

LARGE MISSILE IMPACT

DESIGN LOAD
+ 120 PSF
- 120 PSF


* LMI LOCATION

SEE CONSTRUCTED SUBSTRATE ELEVATION E2 NEXT PAGE



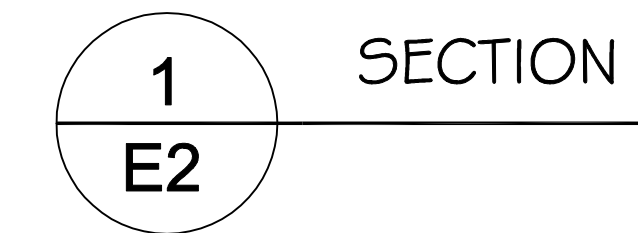
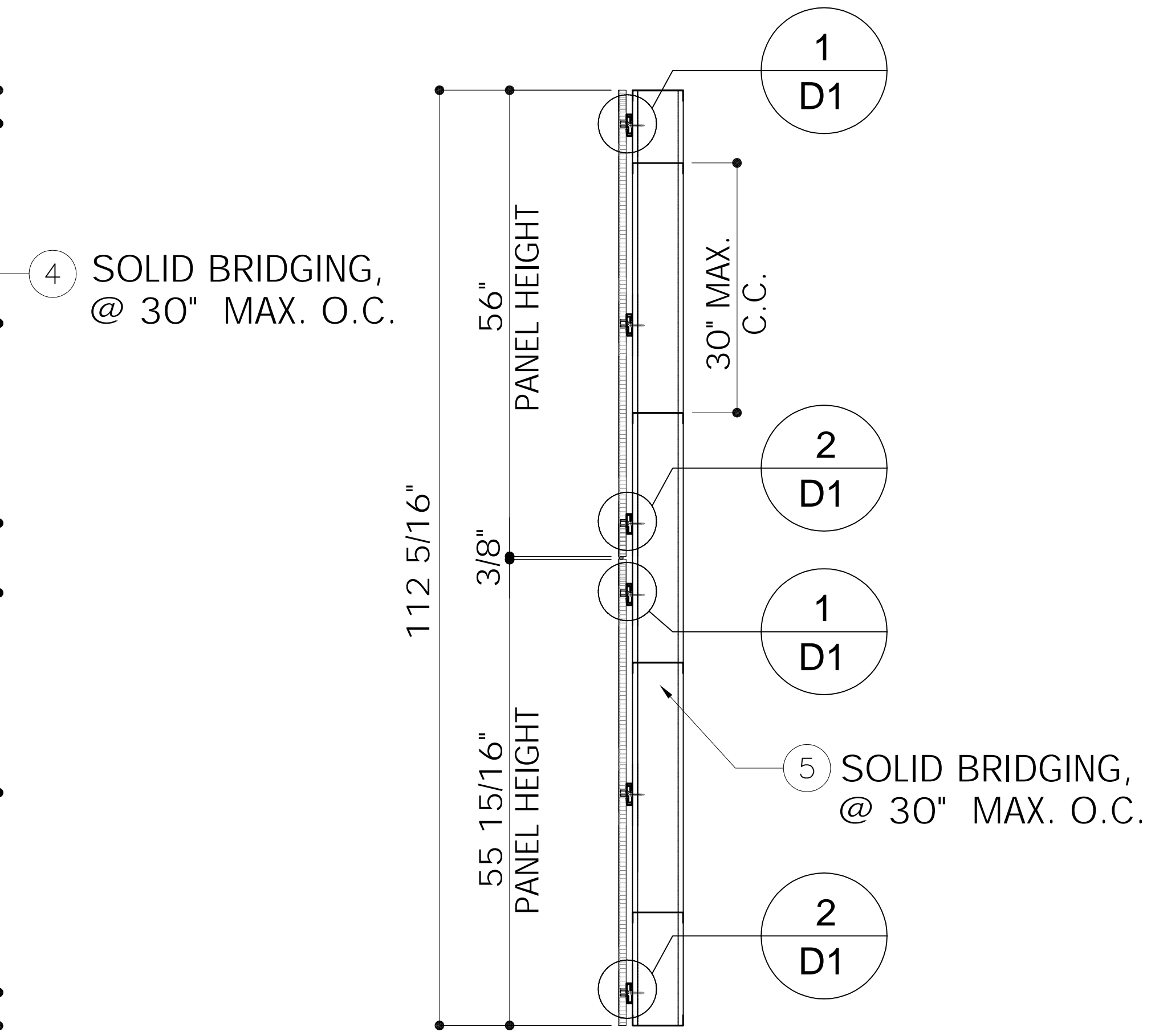
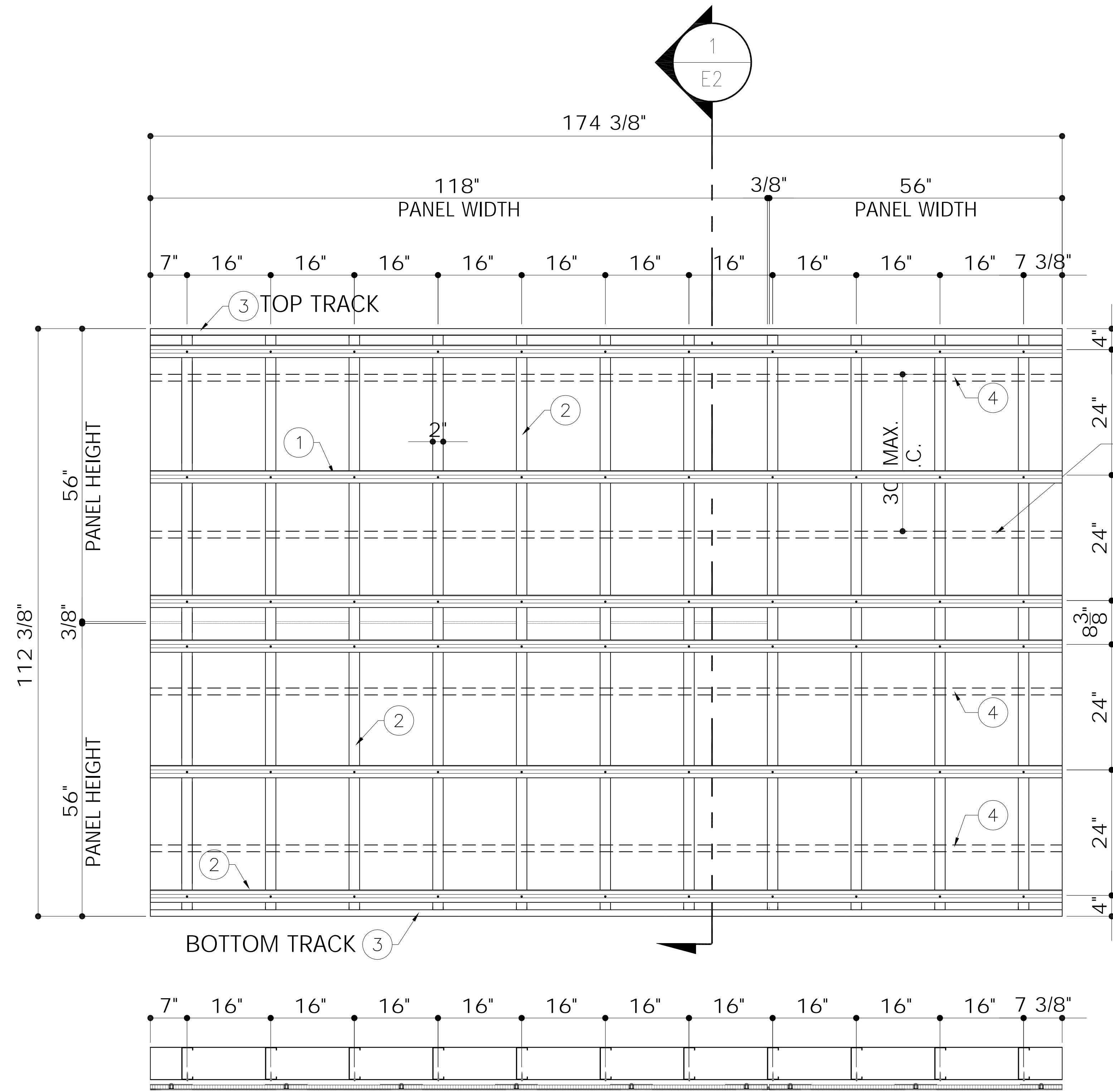
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 E1

****AS BUILT DRAWINGS**



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CONSTRUCTED SUBSTRATE ELEVATION

****AS BUILT DRAWINGS**



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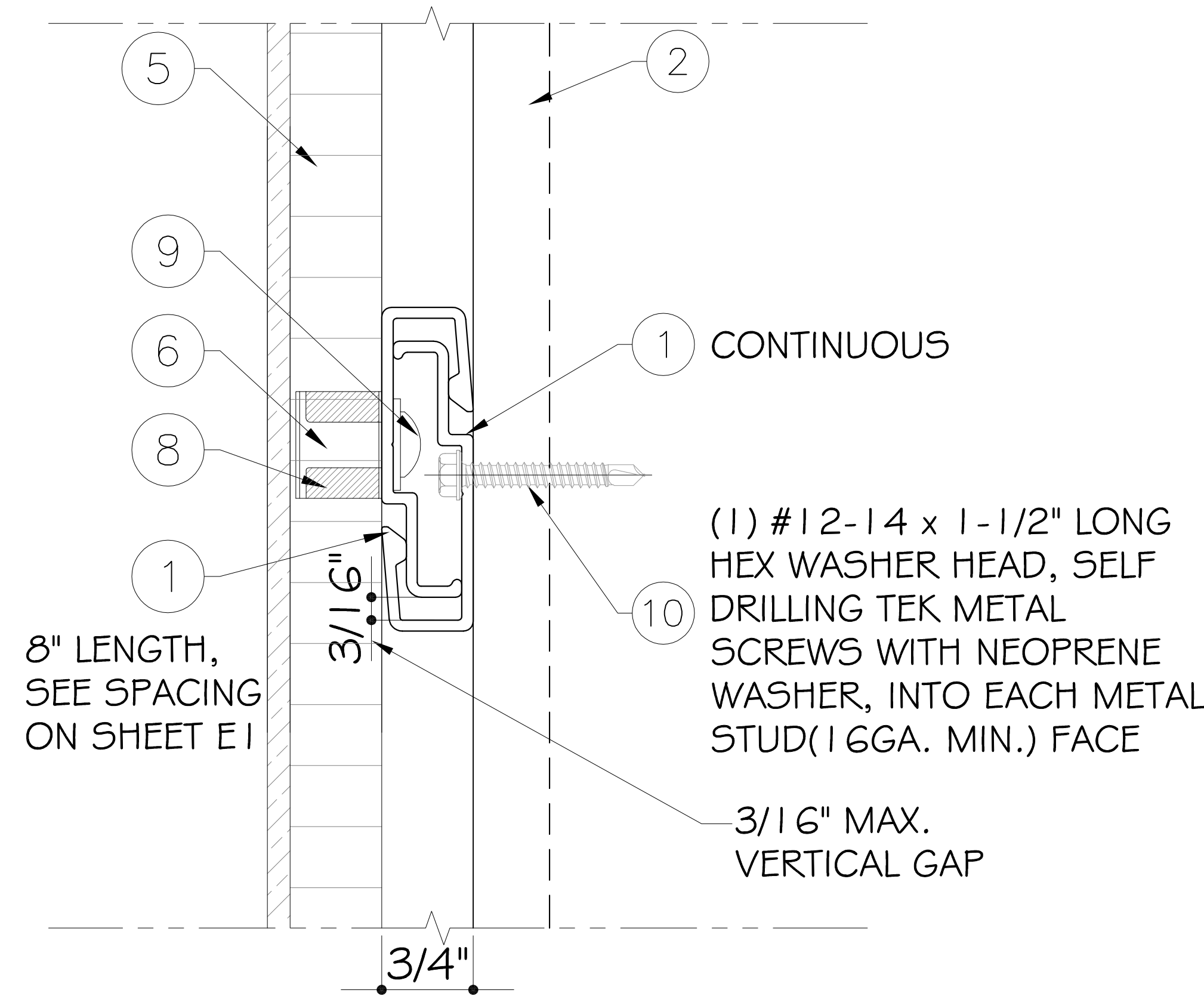
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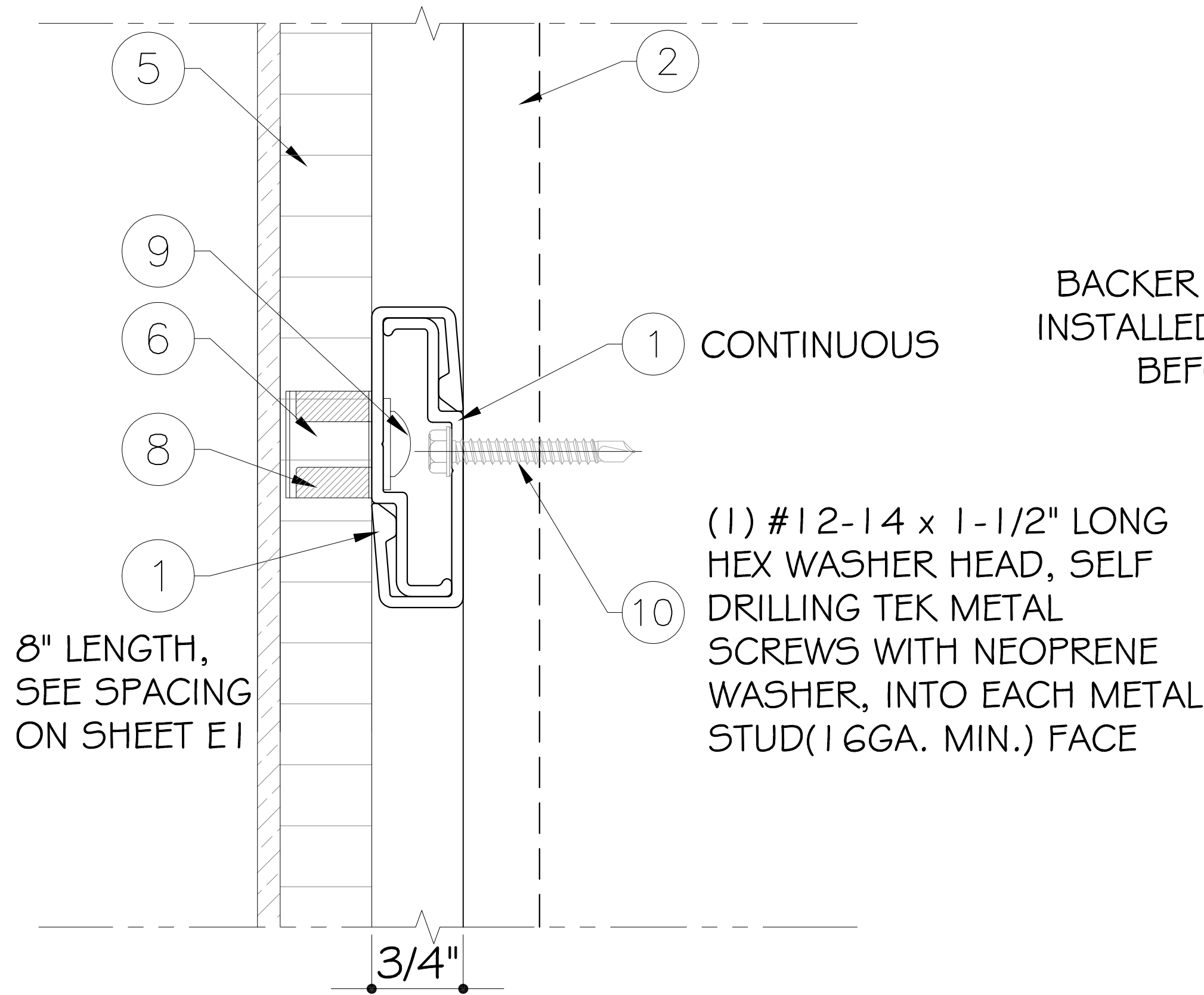
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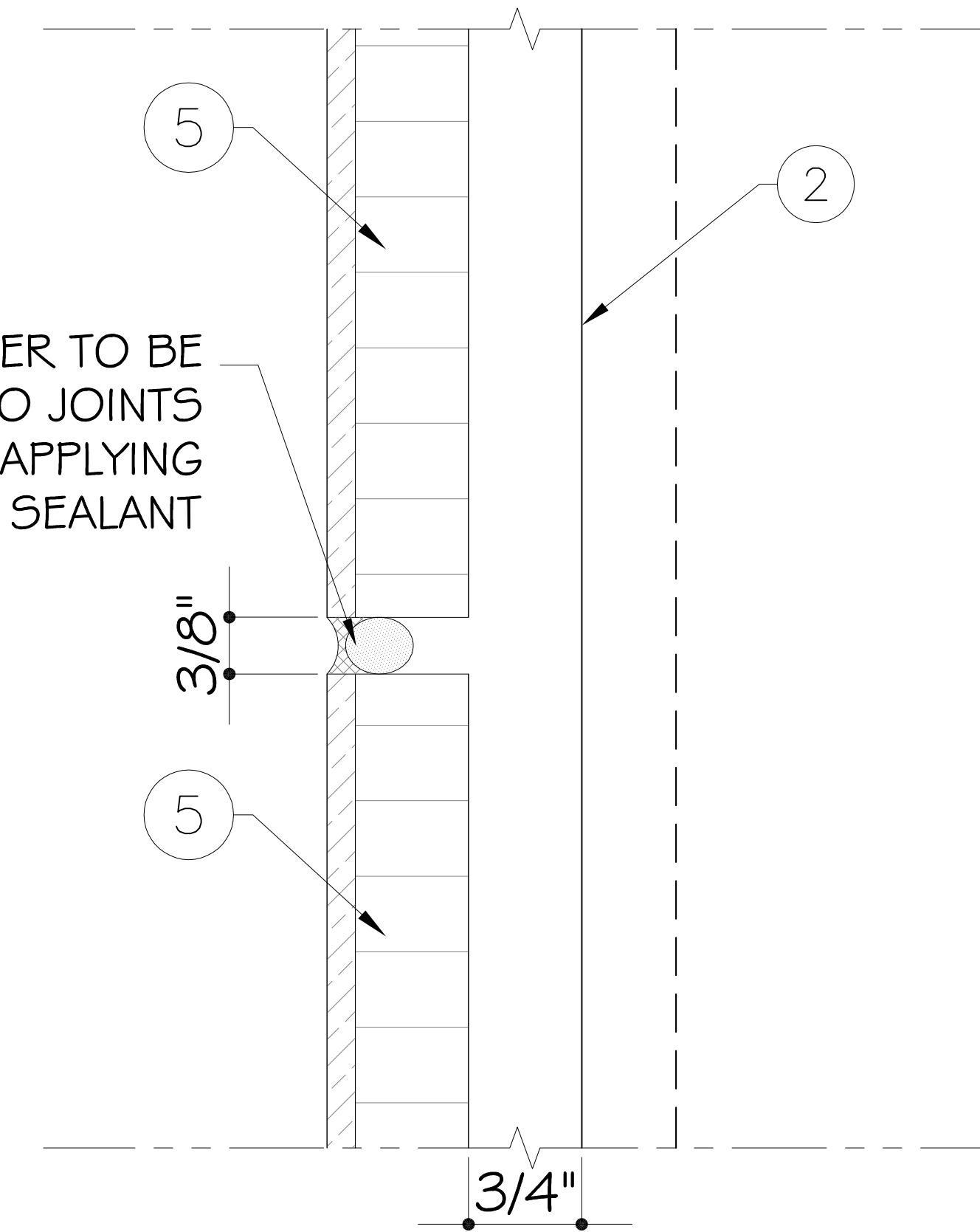
03 OF 05



1
DI
DETAIL
WIND



2
DI
DETAIL
WIND & GRAVITY



3
DI
DETAIL

****AS BUILT DRAWINGS**



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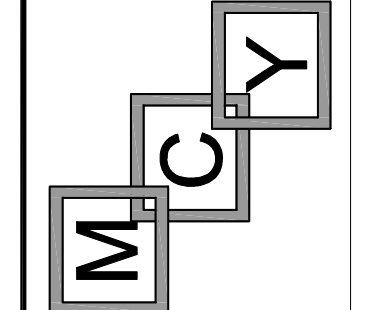
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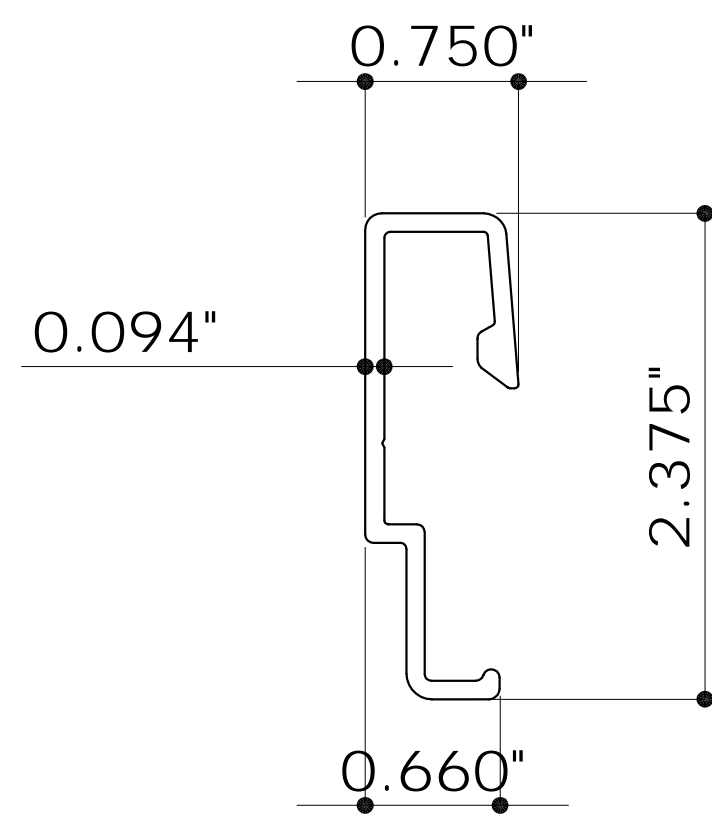
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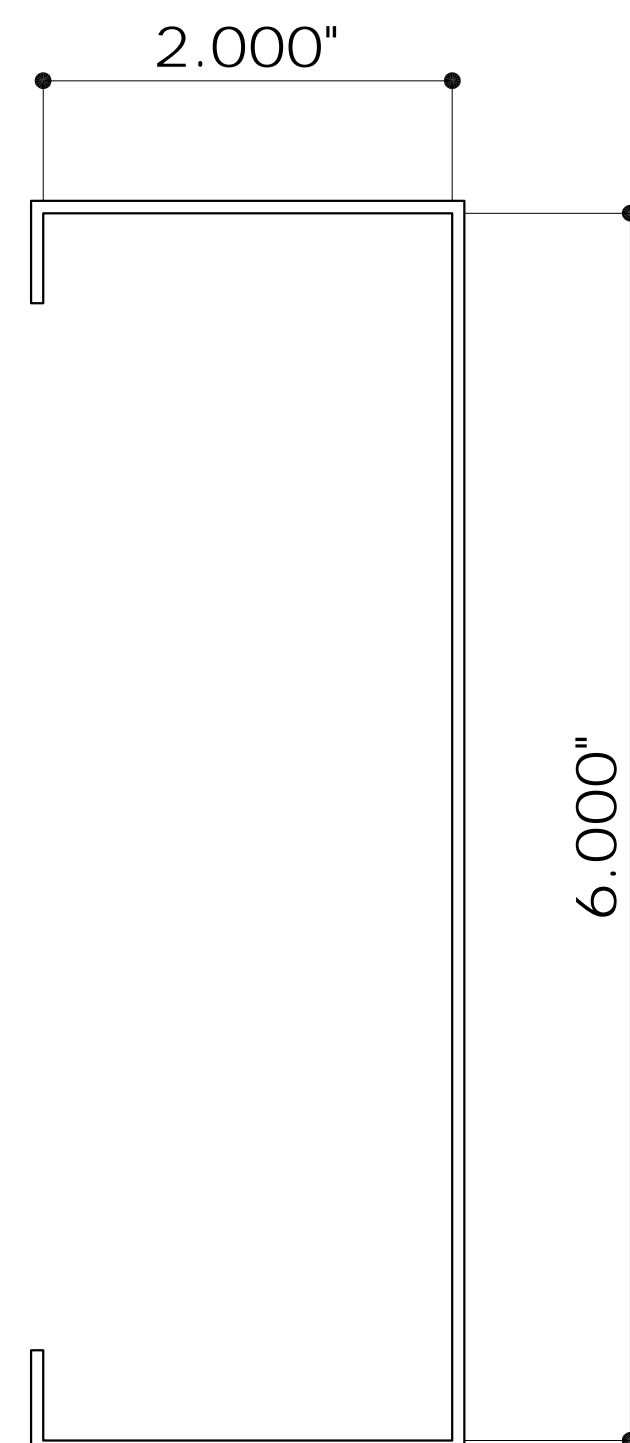
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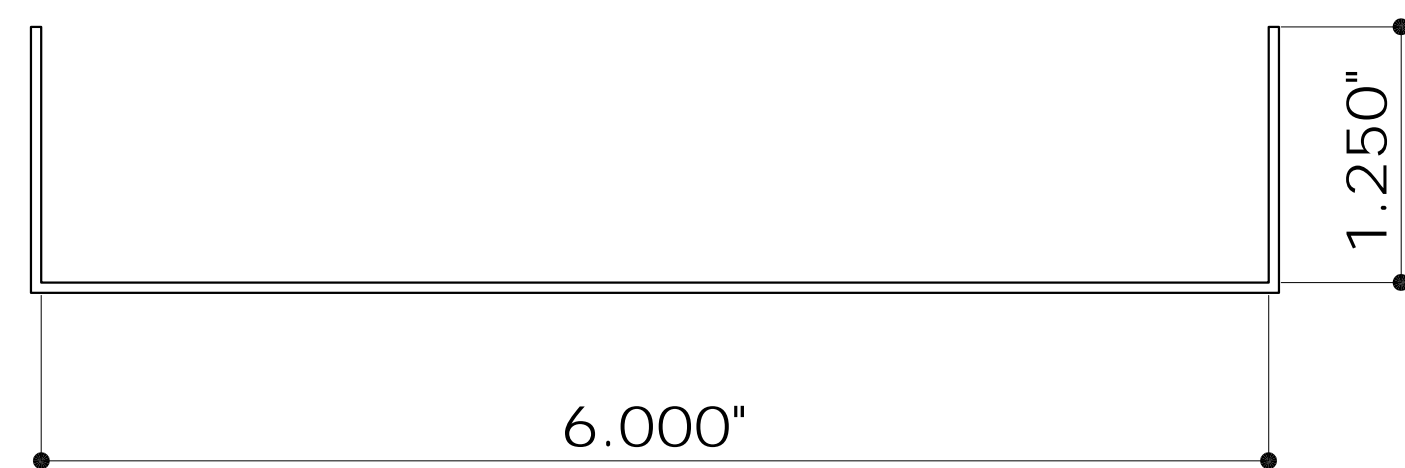
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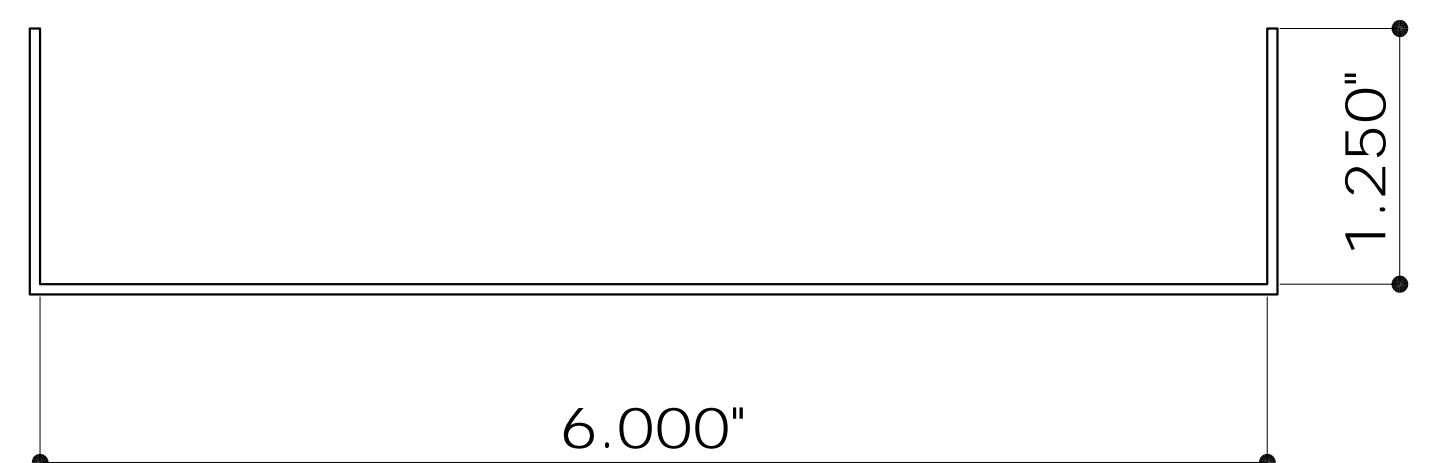
1 ALUMINUM TRACK
ALUM. 6061-T6 or 6005-T5



2 METAL STUD
18 GA.



3 TOP AND BOTTOM TRACK
18 GA.



4 SOLID BRIDGING
18 GA.

****AS BUILT DRAWINGS**



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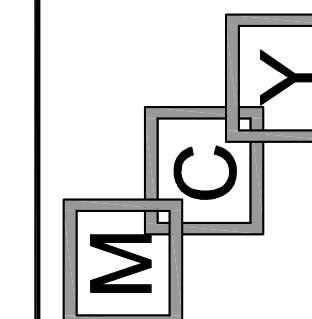
BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1		ALUMINUM TRACK	ALUM. 6061-T6 or 6005-T5	
2		METAL STUD	18 GA. STEEL (Fy = 50 KSI)	
3		TOP AND BOTTOM TRACK	18 GA. STEEL (Fy = 50 KSI)	
4		SOLID BRIDGING	18 GA.	
5		NATURAL STONE PANEL, 118" X 56"		FANTASTY MARBLE
6		TEE-NUT WITH 1/4" - 20 FEMALE THREAD FULLY BONDED INTO 7/8" HOLES WITH ITEM 9		
7		DOWSIL 795		DOWSIL™
8		EPOXY ADHISVE		
9		TRUSS-HEAD 1/4" - 20 MACHINE SCREW, 5/8" LONG, SECURED INTO TEE-NUT		
10		(2) #12-14 X 1-1/2" LONG HEX WASHER HEAD, SELF DRILLING TEK METAL SCREWS WITH NEOPRENE WASHER, INTO EACH METAL STUD FACE		

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05 OF 05