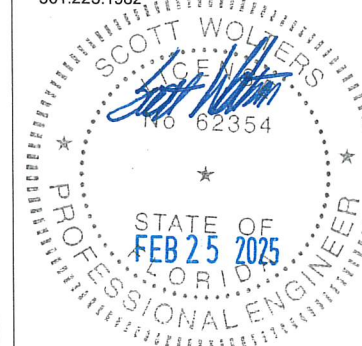


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DATE: 2/8/25

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**COVER
PAGE**

NORTHSTAR EXTERIOR WALL PANEL SYSTEM

1/4" THICK FIBER REINFORCED POLYMER
BALLISTIC ARMOR PLATE SHEATHING BONDED
TO A COLD FORMED STEEL FRAME ASSEMBLY

DESIGN PRESSURE: +90 / -85 PSF
MISSILE IMPACT: LEVEL D
DEFLECTION LIMIT: L/120

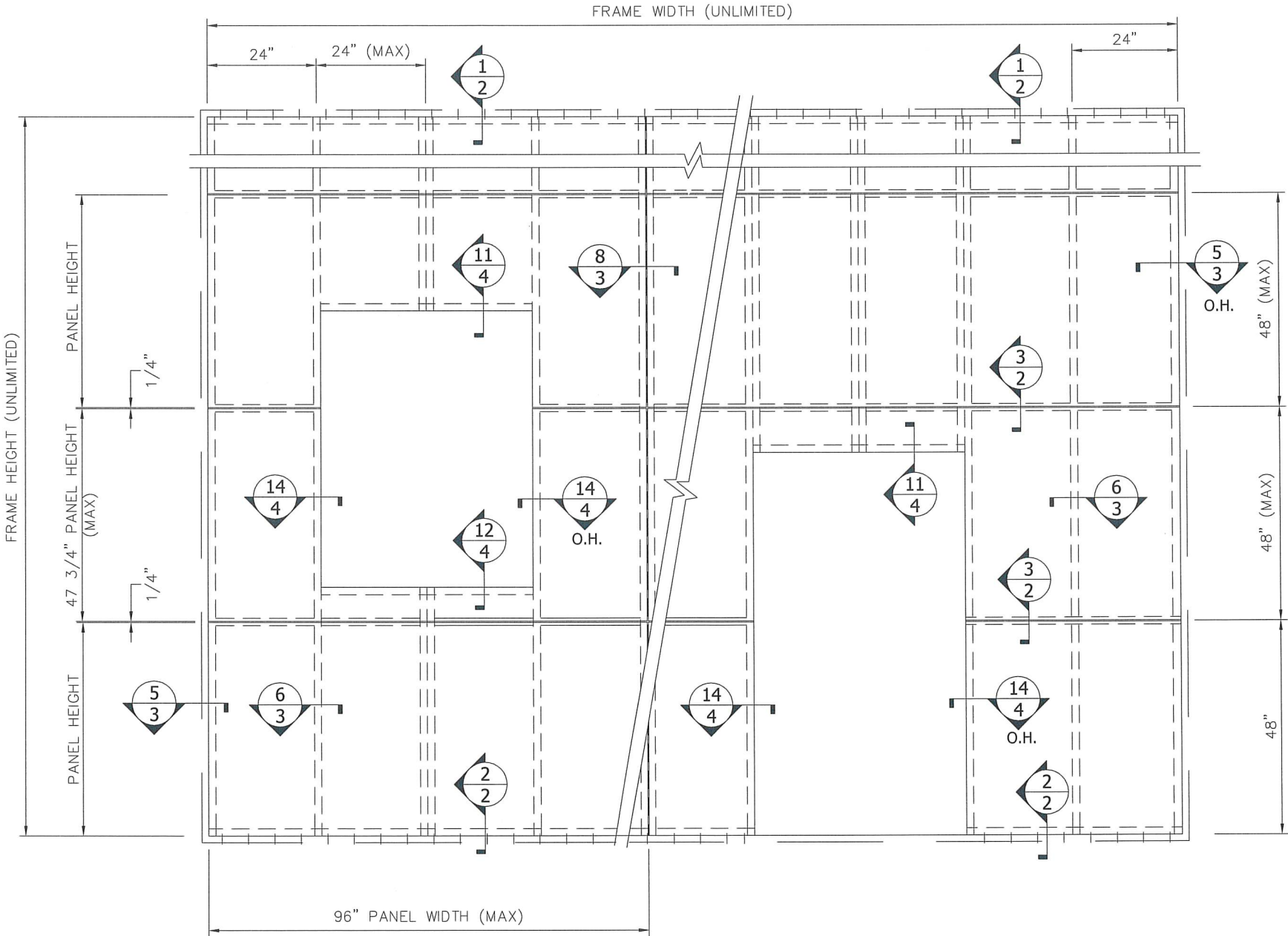
NORTHSTAR EXTERIOR WALL PANEL SYSTEM

GENERAL NOTES:

1. THIS PRODUCT MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, FOR USE OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE.
2. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, &203. IT IS LARGE AND SMALL MISSILE IMPACT RESISTANT, AND SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS.
3. THIS PRODUCT HAS BEEN DESIGNED AND TESTED AS A WALL CLADDING SYSTEM ONLY, AND IS NOT DESIGNED TO BE RESIST DIAPHRAGM FORCES.
4. THIS SYSTEM HAS BEEN TESTED PER ASTM E84 & E2768, AND MEETS THE REQUIREMENTS OF FBC SECTIONS 2613.5 AND 2603.5.4. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
5. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
6. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
7. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

MANUFACTURING NOTES:

1. DESIGN OF THE METAL STUD FRAMING SYSTEM IS BY OTHERS AND IS NOT A PART OF THIS REVIEW. 18 Ga, F_u= 58 ksi FRAMING IS REQUIRED AT A MINIMUM FOR FASTENER PULL-OUT. THE FRAMING SYSTEM MUST BE DESIGNED TO SAFELY TRANSFER IMPOSED LOADS FROM THE PANELS TO THE BUILDING STRUCTURE.
2. INTERMEDIATE VERTICAL STUDS ARE REQUIRED AT 24" MAX O.C, AND AT ALL VERTICAL PANEL SEAMS.
3. INTERMEDIATE HORIZONTAL STUDS ARE REQUIRED AT PANEL SEAMS, 48" MAX. O.C, AND MAY BE NOTCHED TO FIT INTO THE VERTICAL STUDS WHERE REQUIRED.
4. AN 1/8" BEAD OF 3M SCOTCH-WELD MULTI-MATERIAL COMPOSITE URETHANE EPOXY IS APPLIED TO ALL THE VERTICAL AND HORIZONTAL STUDS TO BOND WITH THE STRONGWELL HS ARMOR FIBERGLASS PANELS AND APPLIED TO ALL VERTICAL AND HORIZONTAL JOINTS AND SCREW HEADS AS A SEALANT.



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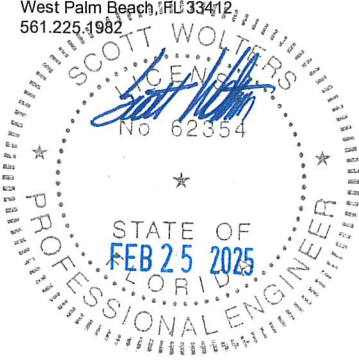
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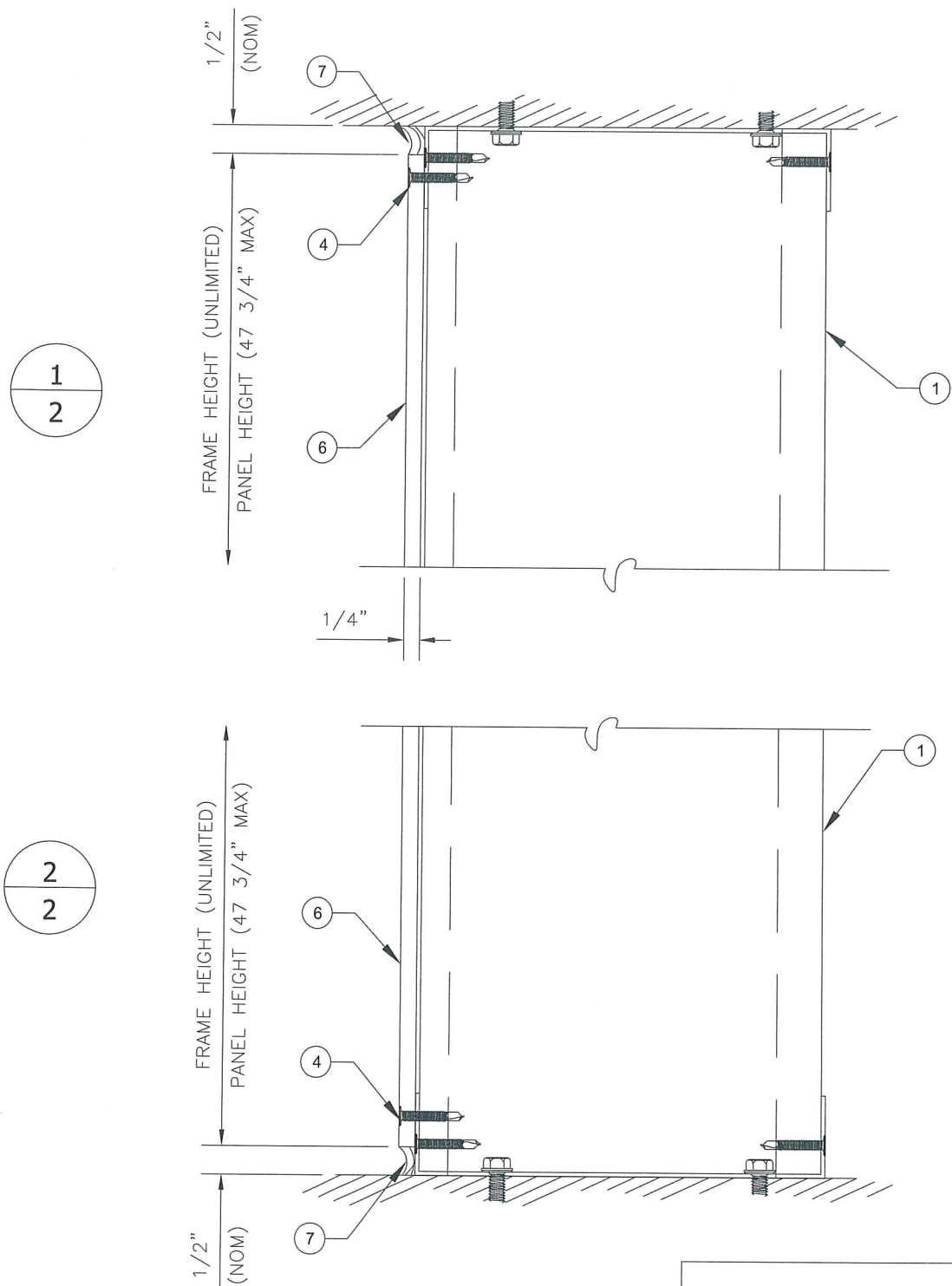
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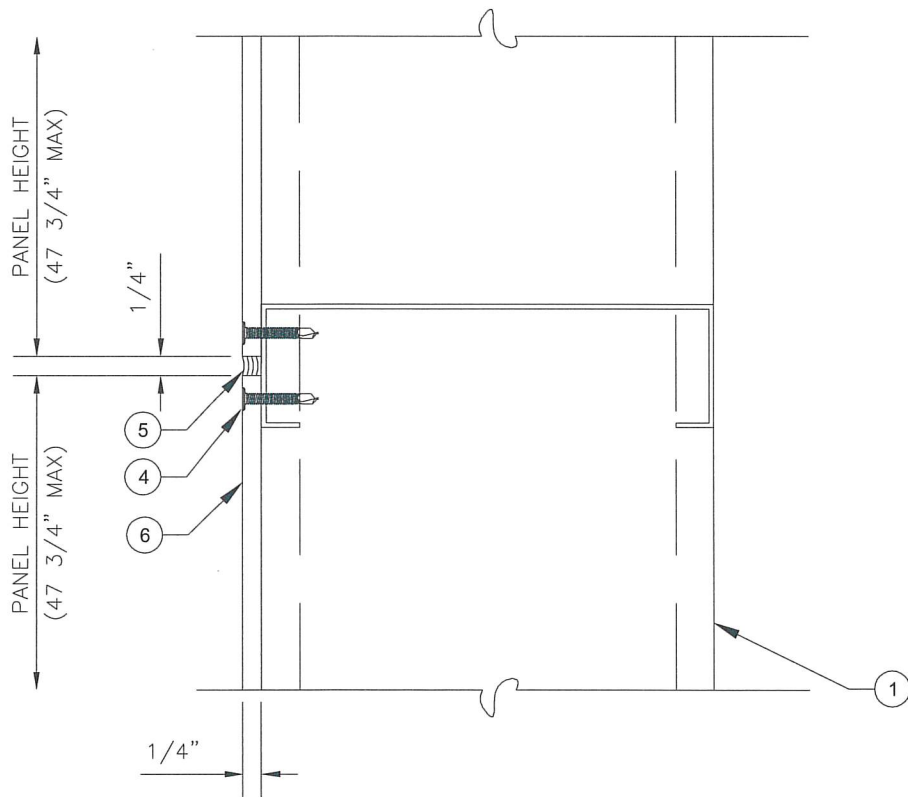
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NORTHSTAR EXTERIOR WALL PANEL SYSTEM



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BILL OF MATERIALS			
PART #	DESCRIPTION	MANUFACTURER	NOTES
1	COLD-FORMED STEEL FRAMING SYSTEM		18 Ga, F _U =58 ksi MIN (FOR FASTENER PULL-OUT)
4	#14 X 1-1/2" SS FH TEK SCREW	ITW BUILDEX	1-1/4" FROM END OF STUDS AND 12" MAX O.C. SEALED WITH 3M SCOTCH-WELD URETHANE EPOXY
5	3M SCOTCH-WELD URETHANE EPOXY	3M	
6	1/4" BALLISTIC ARMOR PLATE SHEATHING	STRONGWELL	BONDED TO FRAMING WITH 3M SCOTCH-WELD URETHANE EPOXY
7	PERIMETER SEALANT AND BACKER ROD	PER ARCHITECTS SPECIFICATION	SUPPLIED BY OTHERS



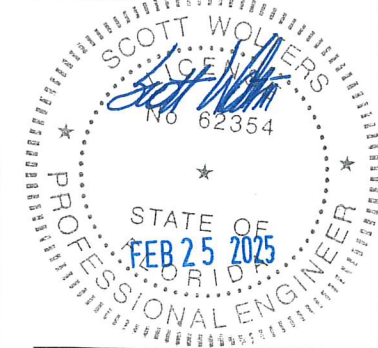
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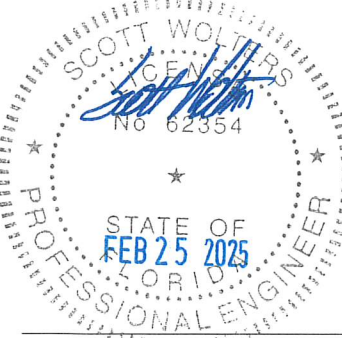
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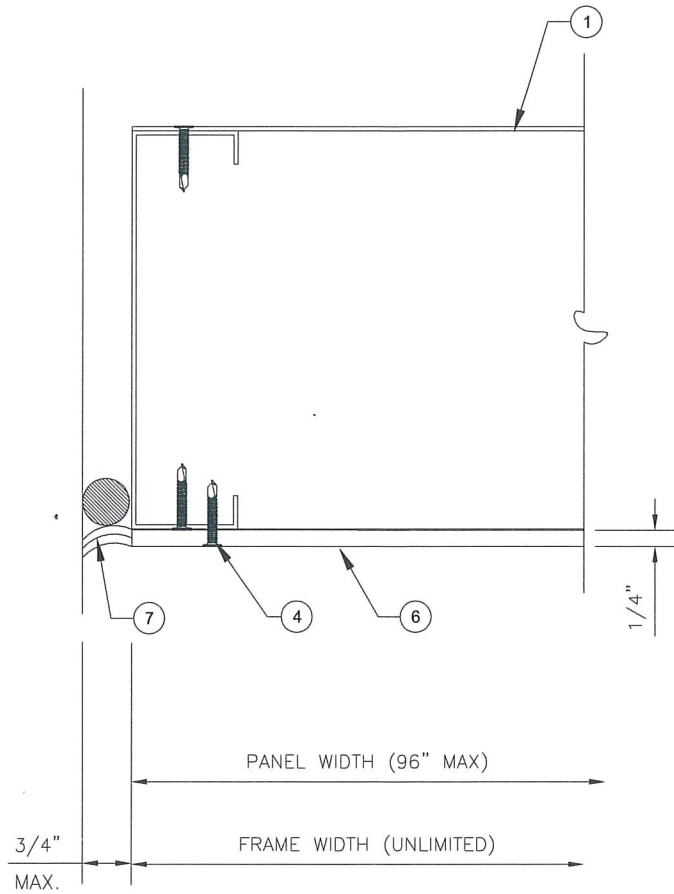
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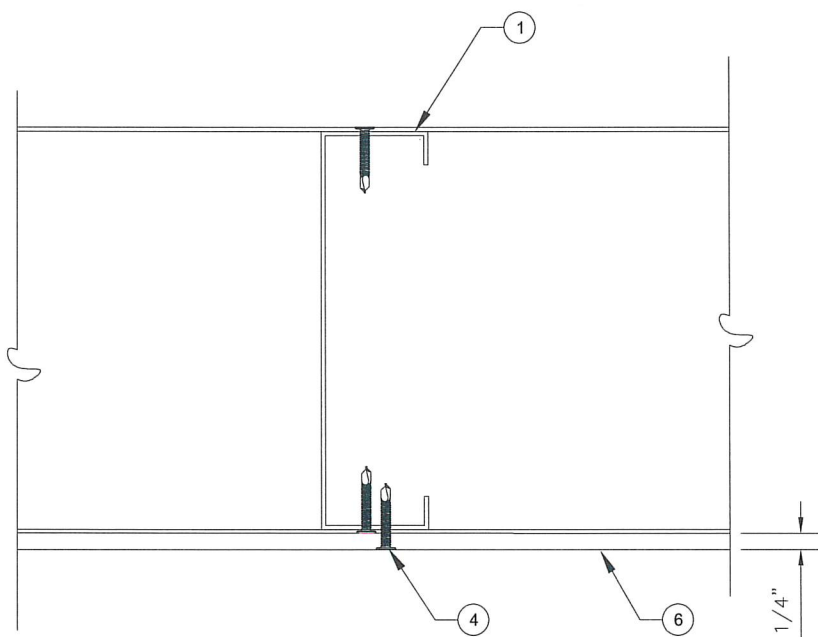
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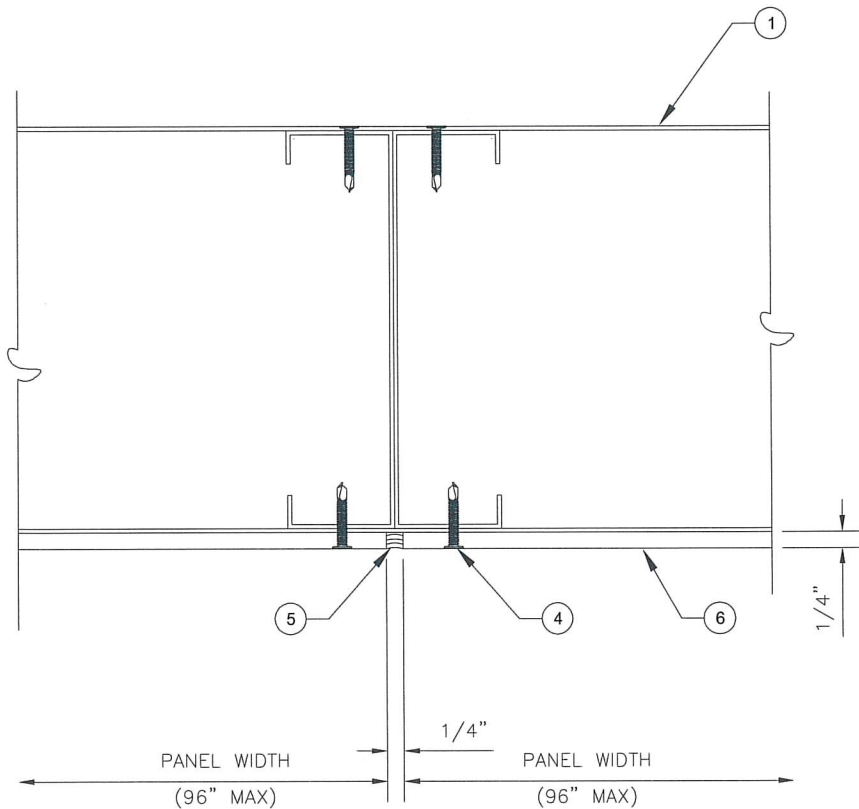
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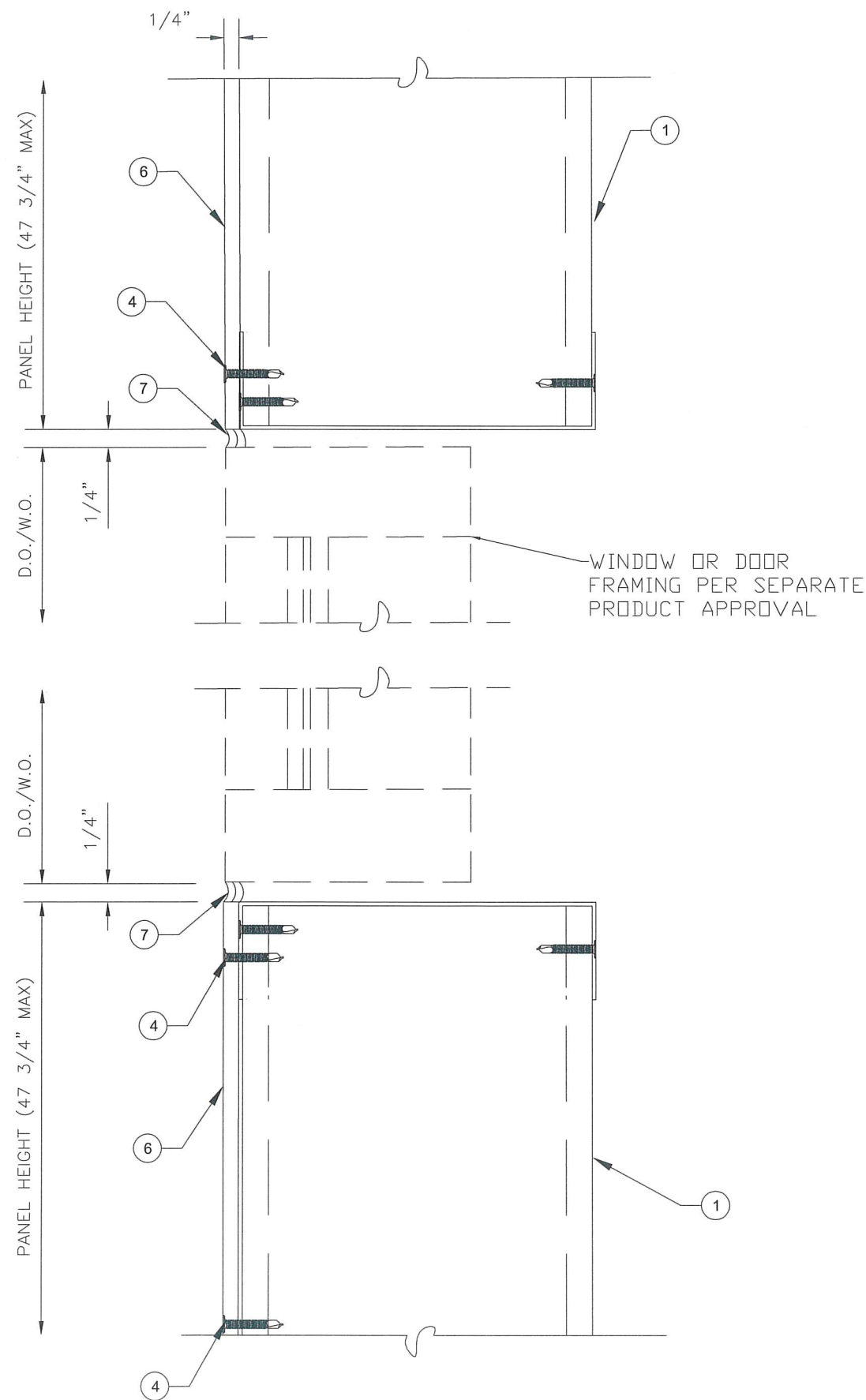
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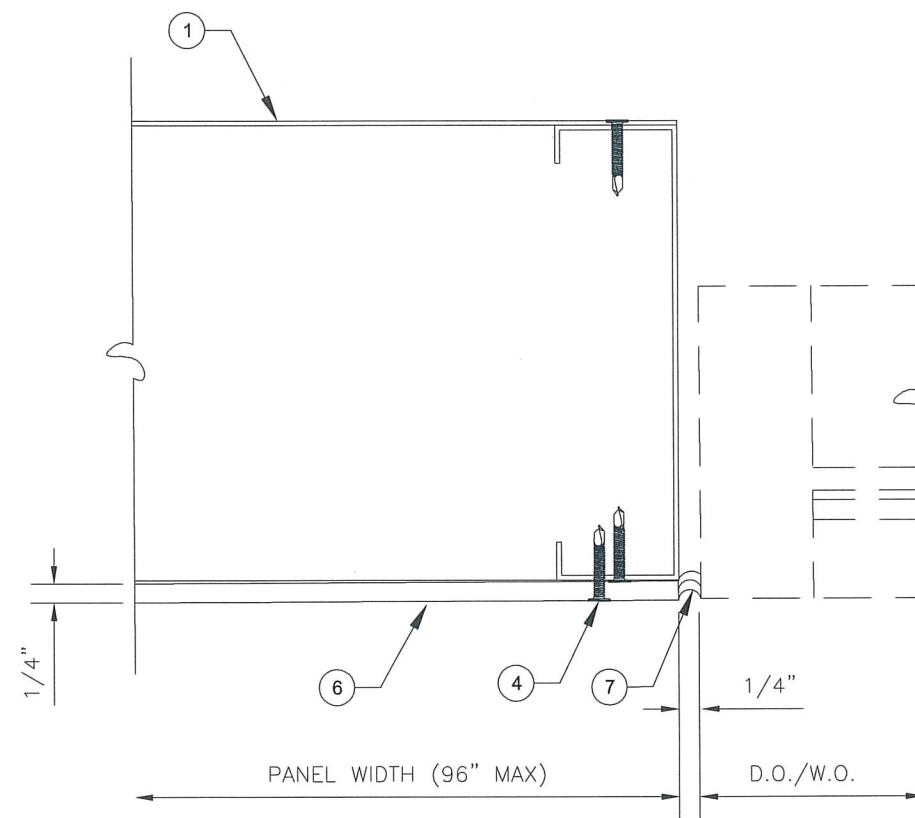
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NORTHSTAR EXTERIOR WALL PANEL SYSTEM

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