

MOSAIC SOLID BATTEN DETAILS

COMPONENTS

- C1 - SOLID BATTENS
- C2 - SOLID BATTENS
- C3 - MOSAIC END CAPS AND BRACKETS
- E1 - BATTEN T-END CAP INSTALL DETAIL
- E2 - BATTEN FLAT END CAP INSTALL DETAIL
- S1 - SPAN ANCHORAGE TABLE INFORMATION
- S2 - SPAN ANCHORAGE TABLE (SINGLE-SPAN)
- S3 - SPAN ANCHORAGE TABLE (SINGLE-SPAN)
- S4 - SPAN ANCHORAGE TABLE (MULTI-SPAN)
- A1 - EXPANSION/CONTRACTION TABLE

SOLID BATTENS

BATTEN TO WALL FRAMING (U-BRACKET)

BU-D1.01 - 1"X3" SOLID (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (U-BRACKET)

BU-D1.10 - 1"X3" SOLID (*ABOVE SUPPORT MEMBER*)

BU-D1.11 - 1"X3" SOLID (*BELOW SUPPORT MEMBER*)

BATTEN @ BASE AND CEILING (U-BRACKET)

BU-D1.20 - 1"X3" SOLID (*BASE*)

BU-D1.21 - 1"X3" SOLID (*CEILING*)

BATTEN TO WALL FRAMING (U-BRACKET)

BU-D2.01 - 2"X8" SOLID (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (U-BRACKET)

BU-D2.10 - 2"X8" SOLID (*ABOVE SUPPORT MEMBER*)

BU-D2.11 - 2"X8" SOLID (*BELOW SUPPORT MEMBER*)

BATTEN @ BASE AND CEILING (U-BRACKET)

BU-D2.20 - 2"X8" SOLID (*BASE*)

BU-D2.21 - 2"X8" SOLID (*CEILING*)

BATTEN TO WALL FRAMING (L-BRACKET)

BL-D1.01 - 1"X3" SOLID (*VERTICAL OR HORIZONTAL*)

SOLID BATTENS (CONTINUED)

BATTEN @ TRELLIS (L-BRACKET)

- BL-D1.10 - 1"X3" SOLID (*ABOVE SUPPORT MEMBER*)
- BL-D1.11 - 1"X3" SOLID (*BELOW SUPPORT MEMBER*)

BATTEN @ BASE AND CEILING (L-BRACKET)

- BL-D1.20 - 1"X3" SOLID (*BASE*)
- BL-D1.21 - 1"X3" SOLID (*CEILING*)

BATTEN TO WALL FRAMING (L-BRACKET)

- BL-D2.01 - 2"X8" SOLID (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (L-BRACKET)

- BL-D2.10 - 2"X8" SOLID (*ABOVE SUPPORT MEMBER*)
- BL-D2.11 - 2"X8" SOLID (*BELOW SUPPORT MEMBER*)

BATTEN @ BASE AND CEILING (L-BRACKET)

- BL-D2.20 - 2"X8" SOLID (*BASE*)
- BL-D2.21 - 2"X8" SOLID (*CEILING*)

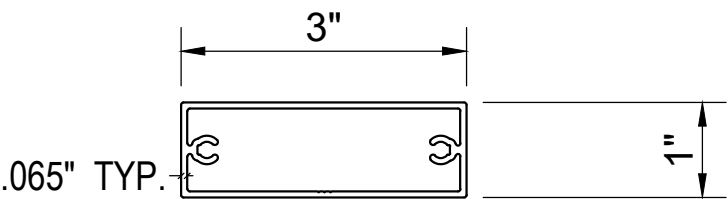
BATTEN TO WALL FRAMING (ANGLE BRACKET)

- BA-D1.01 - 1"X3" SOLID (*VERTICAL OR HORIZONTAL*)

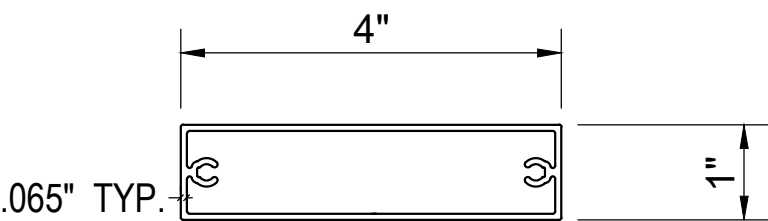
BATTEN TO WALL FRAMING (ANGLE BRACKET)

- BA-D2.01 - 2"X8" SOLID (*VERTICAL OR HORIZONTAL*)

MOSAIC SOLID BATTENS



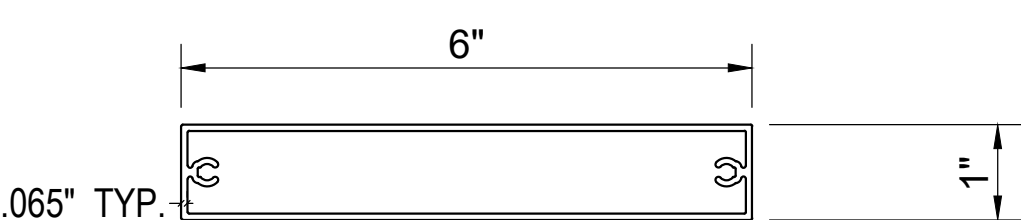
MOSAIC SOLID BATTEN 1"X3"



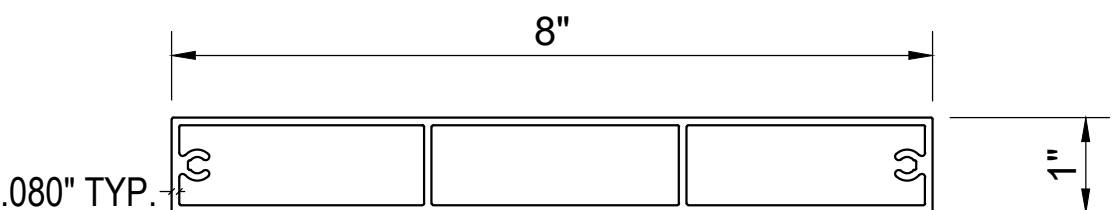
MOSAIC SOLID BATTEN 1"X4"



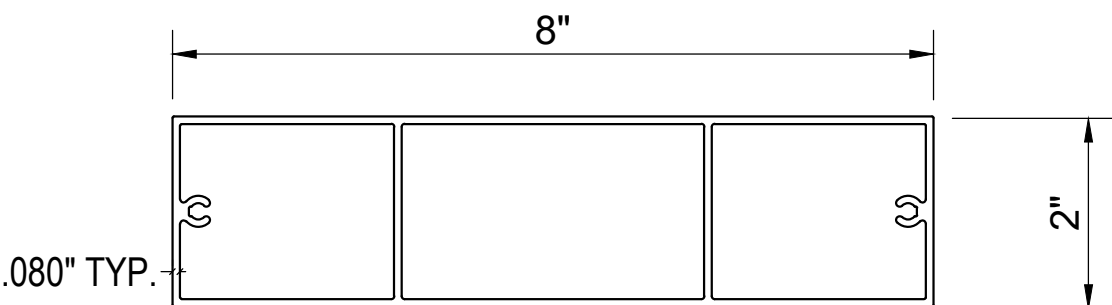
MOSAIC SOLID BATTEN 1"X5"



MOSAIC SOLID BATTEN 1"X6"

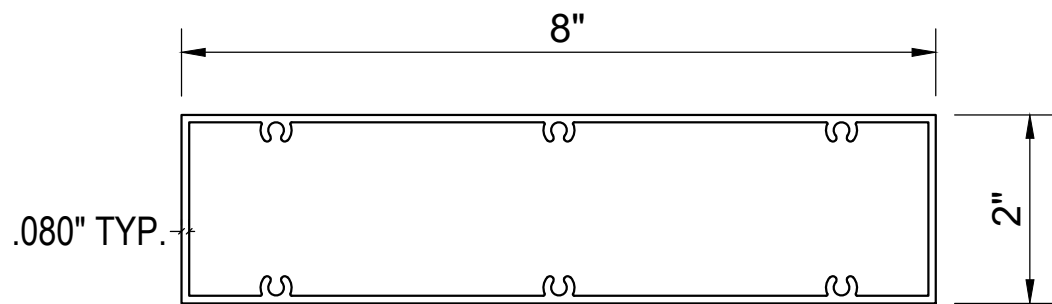


MOSAIC SOLID BATTEN 1"X8"

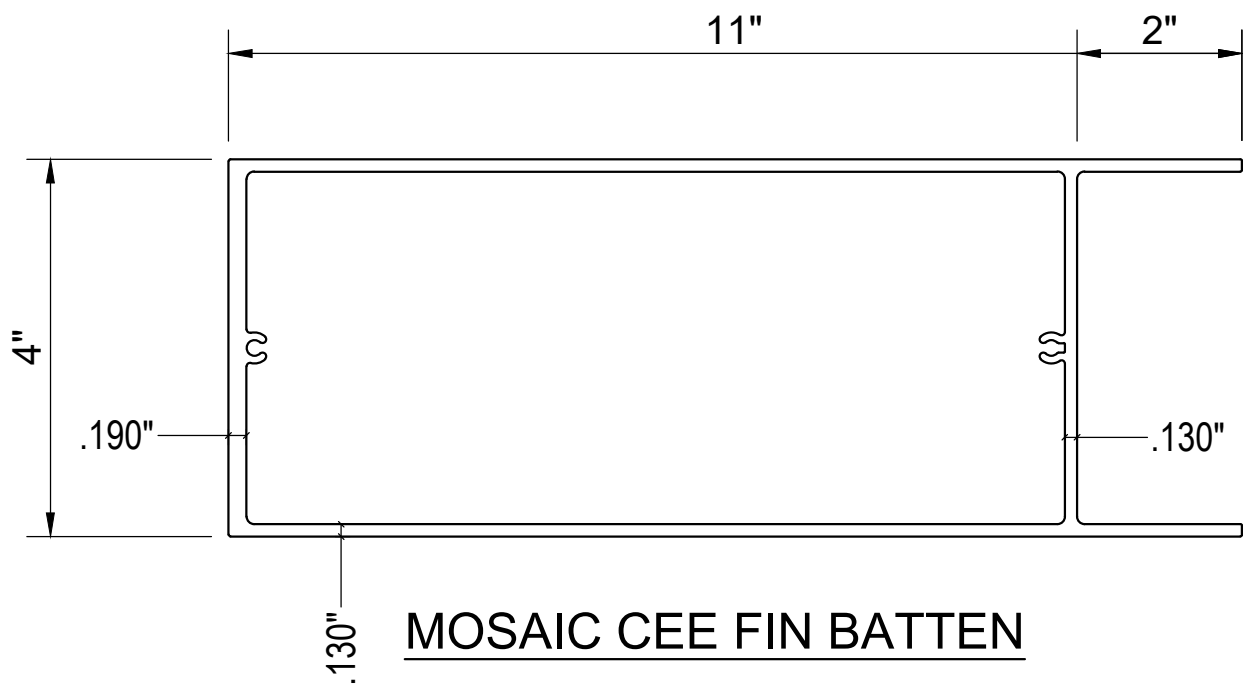


MOSAIC SOLID BATTEN 2"X8"

MOSAIC SOLID BATTENS

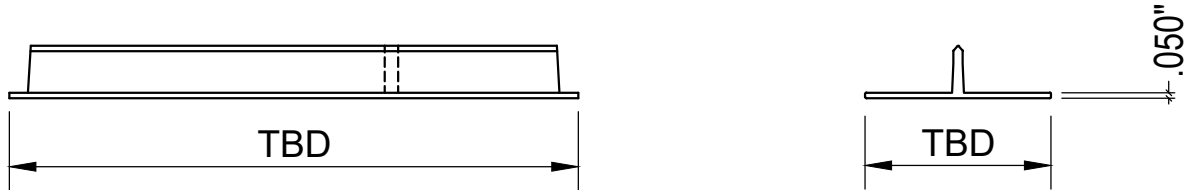


MOSAIC SOLID BATTEN 2\"X8\" - 6 SCREW BOSS



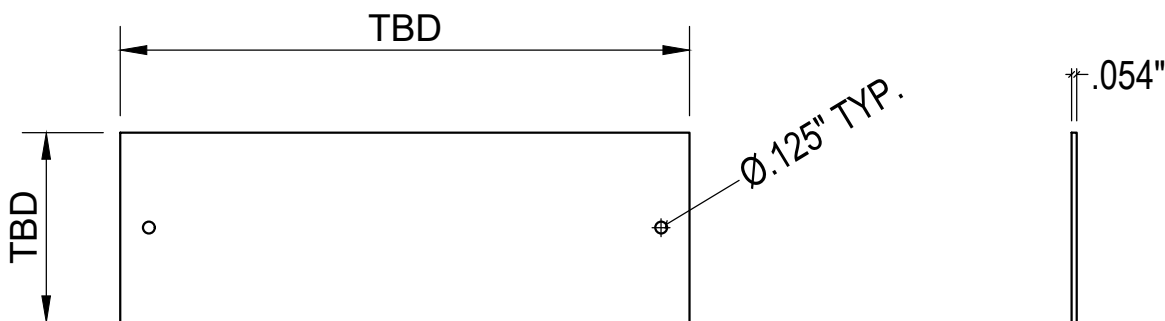
MOSAIC CEE FIN BATTEN

MOSAIC END CAPS AND BRACKETS



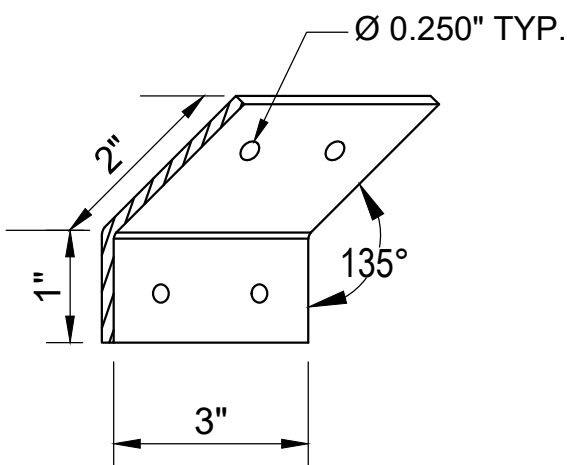
BATTEN T-END CAP

BATTEN T-END CAPS AVAILABLE IN:
1"x (UP TO 8" LG.), 2"x (UP TO 16" LG.), 4"x(UP TO 12" LG.)

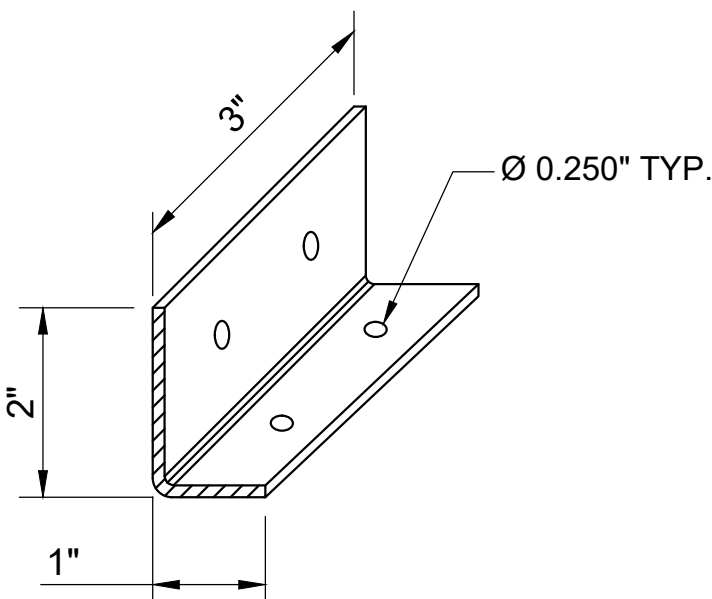


BATTEN FLAT END CAP

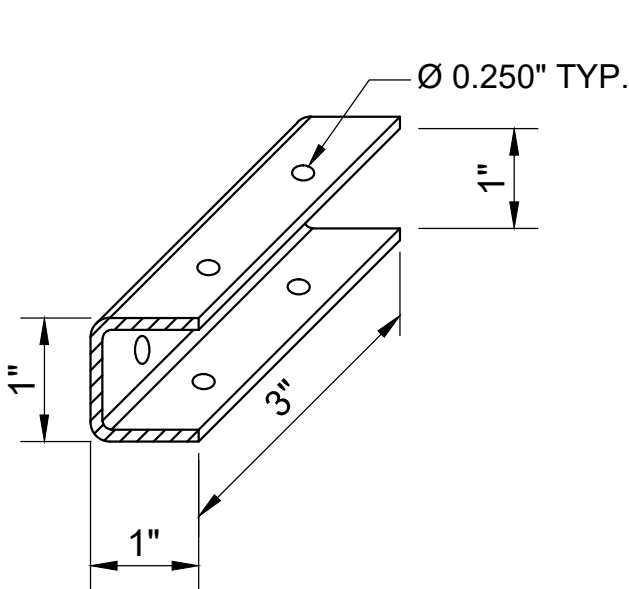
BATTEN T-END CAPS AVAILABLE IN:
1"x (UP TO 8" LG.), 2"x (UP TO 16" LG.), 4"x(UP TO 12" LG.)



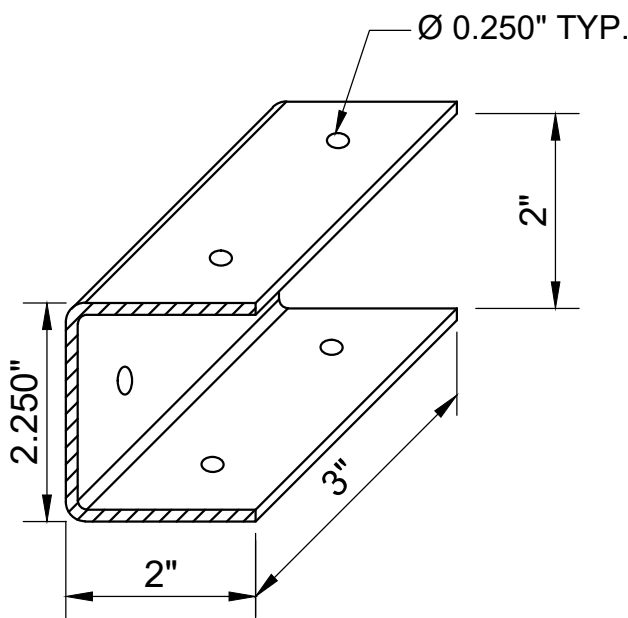
MOSAIC ANGLE BRACKET
.125 ALUMINUM



MOSAIC L-BRACKET
.125 ALUMINUM

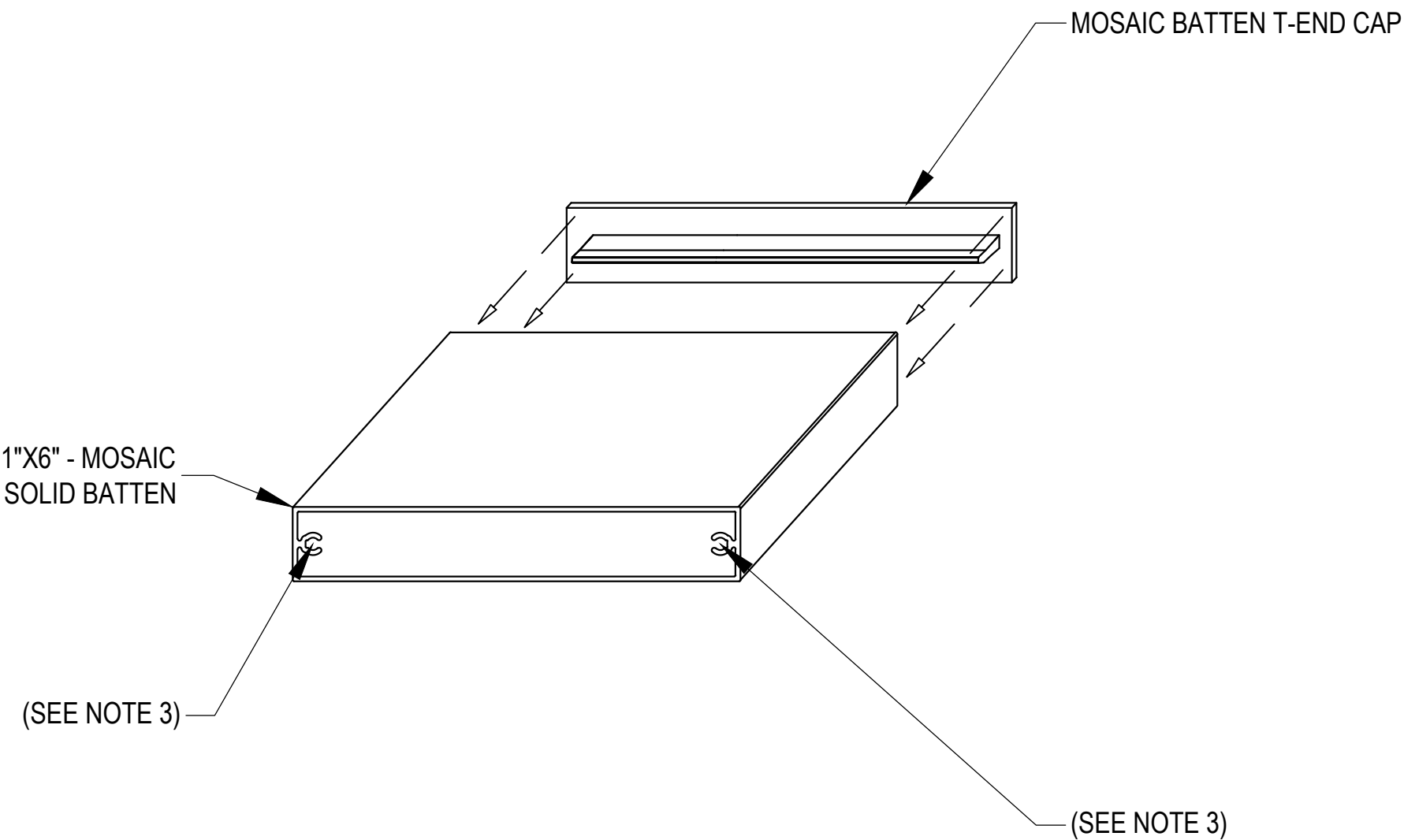


MOSAIC 1" U-BRACKET
.125 ALUMINUM



MOSAIC 2" U-BRACKET
.125 ALUMINUM

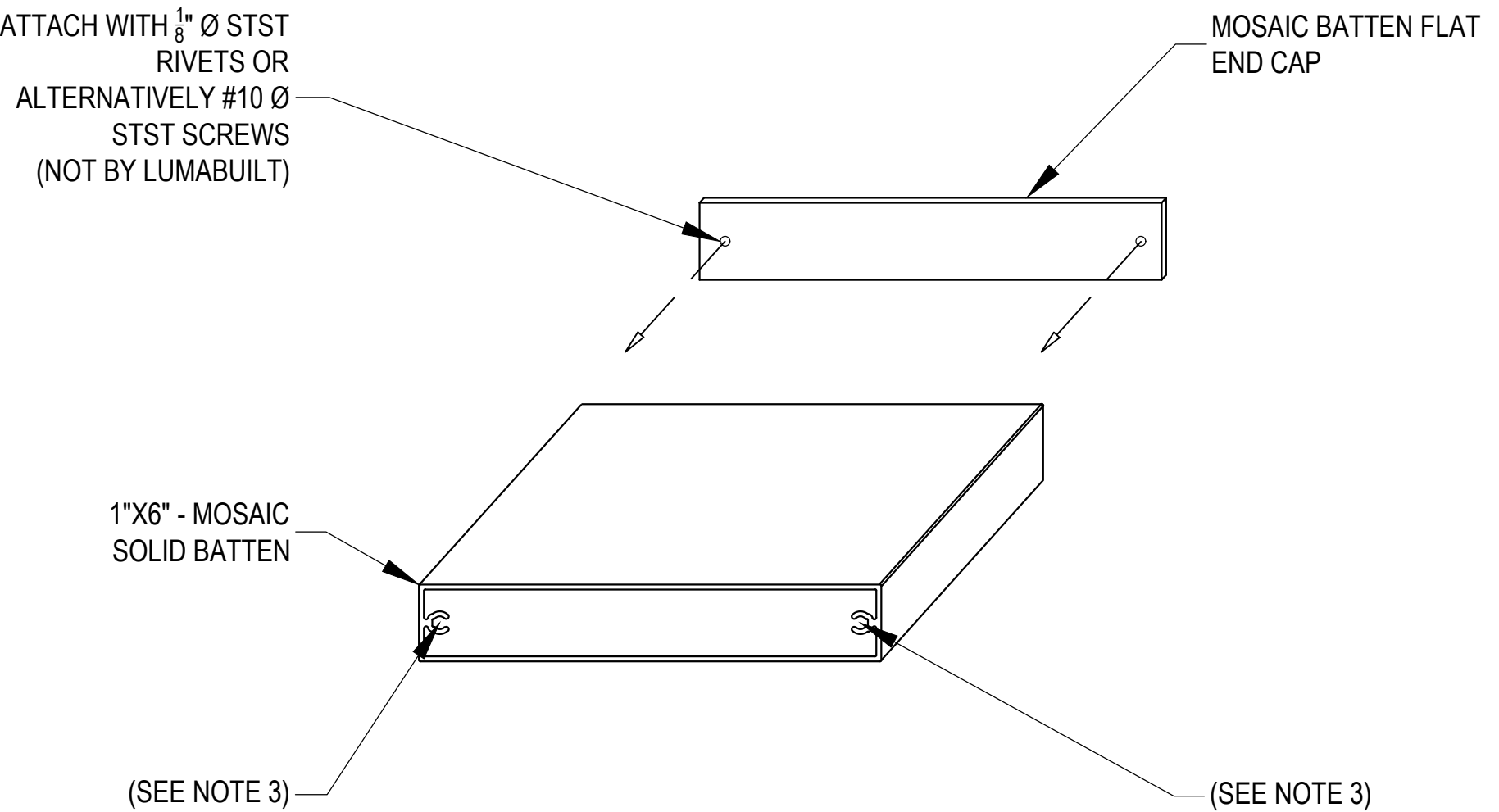
MOSAIC BATTEN T-END CAP



NOTES

- 1. ADDITIONAL BATTEN SIZES/TYPES AVAILABLE.
- 2. ENSURE THE EXTRUSION(S) ARE CUT SQUARE TO ACCOMMODATE END CAP. REMOVE ALL BURRS.
- 3. APPLY A SMALL DROP OF CLEAR SILICON IN EACH SCREW BOSS LOCATION, WHERE END CAP WILL BE INSERTED, JUST PRIOR TO INSERTING THE PRE-CUT END CAP.
- 4. A RUBBER Mallet IS RECOMMENDED TO SEAT THE CAP INTO PLACE.

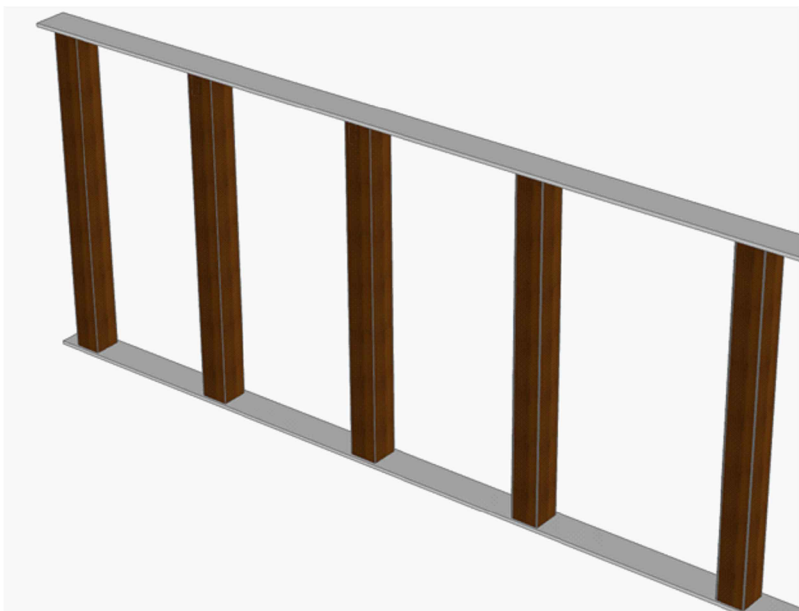
MOSAIC BATTEN FLAT END CAP



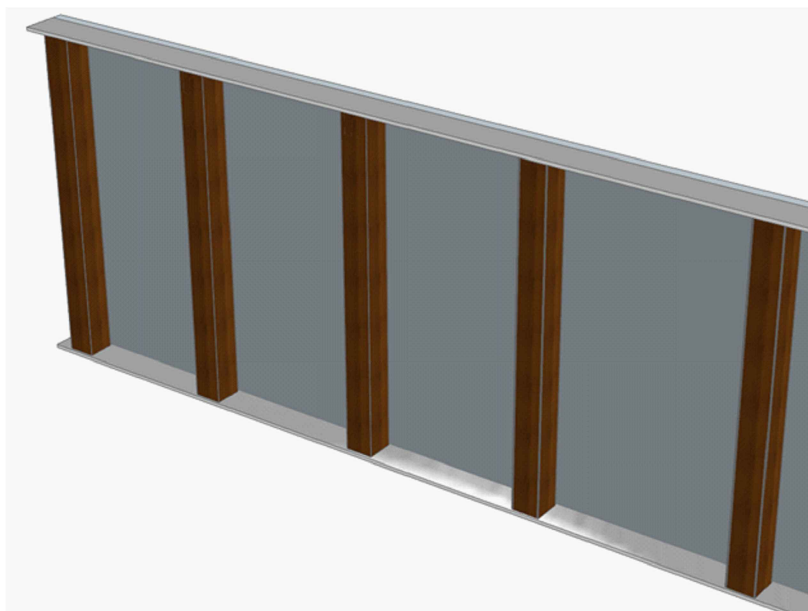
NOTES

1. ADDITIONAL BATTEN SIZES/TYPES AVAILABLE.
2. ENSURE THE EXTRUSION(S) ARE CUT SQUARE TO ACCOMMODATE END CAP. REMOVE ALL BURRS.
3. APPLY A SMALL DROP OF CLEAR SILICON IN EACH SCREW BOSS LOCATION, WHERE END CAP WILL BE POSITIONED, JUST PRIOR TO INSTALLING THE PRE-CUT END CAP.

SPAN ANCHORAGE TABLE - INFORMATION



OPEN FRAMING (NO SHEATHING BACKER)



CLOSED FRAMING (SHEATHING BACKER)

NOTES

- FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
- EACH BRACKET TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.
 - #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)**
 - #8 WOOD SCREW USED FOR ANCHORAGE INTO $\frac{1}{2}$ " PLYWOOD**
 - TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31**
 - TO SUBSTITUTE WITH $\frac{3}{4}$ " PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50**
- EACH CEE BRACKET TO BATTEN CONNECTION REQUIRES 4 FASTENERS
- EACH L-BRACKET TO BATTEN CONNECTION REQUIRES 2 FASTENERS
- MAXIMUM DEFLECTION = $L/180$
- "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
- DESIGN PRESSURES ARE LIMITED TO 75 PSF
- SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
- FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
- VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORENTATION INSTALLS.

SPAN ANCHORAGE CHARTS - SINGLE SPAN

SINGLE-SPAN ANCHORAGE CHART										
FRAMING: CLOSED WALL FRAMING			SUBSTRATE: 18 GAUGE STEEL			* ATTACHMENT OPTIONS AVAILABLE: L = L-BRACKET U= U-BRACKET A= ANGLE BRACKET DS= BATTEN DIRECT TO SUBSTRATE				
BATTEN TYPE			ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}							
MOSAIC SOLID BATTENS *L, U, A										
	BATTEN SIZE									
	1X3		75 {19}	75 {28}	75 {38}	75 {47}	51 {38}	32 {28}	22 {22}	N/A N/A
	1X4		75 {25}	75 {38}	75 {50}	75 {63}	50 {50}	32 {37}	21 {28}	N/A N/A
	1X5		75 {31}	75 {47}	75 {63}	75 {78}	49 {62}	31 {45}	21 {35}	N/A N/A
	1X6		75 {38}	75 {56}	75 {75}	75 {95}	49 {74}	31 {54}	21 {41}	N/A N/A
	1X6 - 45°		75 {31}	75 {47}	75 {63}	75 {78}	75 {94}	75 {109}	75 {125}	75 {141} 75 {156}
	1X8		75 {50}	75 {75}	75 {100}	75 {125}	59 {119}	37 {87}	25 {67}	18 {53} N/A
	1X8 - 45°		75 {40}	75 {60}	75 {79}	75 {99}	75 {119}	75 {139}	75 {159}	75 {179} 75 {198}
	2X8		75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	74 {200}	75 {225} 60 {200}
	2X8 - 45°		75 {71}	75 {106}	75 {141}	75 {177}	75 {212}	75 {247}	66 {248}	58 {248} 53 {248}
	2X8 -6SB		75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	74 {200}	75 {225} 60 {200}

NOTES

1. MEMBER REACTION {lbs} VALUES ARE AT EACH ANCHORAGE POINT.
2. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
3. EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.

3.1. #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)

3.2. #8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD

3.2.1. TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31

3.2.2. TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50
4. MAXIMUM DEFLECTION = L/180
5. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
6. DESIGN PRESSURES ARE LIMITED TO 75 PSF
7. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
8. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
9. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORENTATION INSTALLS.



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SPAN TABLE - SINGLE SPAN INFORMATION

SCALE: NTS

02/19/25

S2

SYSTEM = MOSAIC BATTENS

SPAN ANCHORAGE CHARTS - SINGLE SPAN

SINGLE-SPAN ANCHORAGE CHART											
FRAMING: CLOSED WALL FRAMING				SUBSTRATE: 1/2" PLYWOOD			* ATTACHMENT OPTIONS AVAILABLE: L = L-BRACKET U= U-BRACKET A = ANGLE BRACKET DS= BATTEN DIRECT TO SUBSTRATE				
BATTEN TYPE				ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}							
MOSAIC SOLID BATTENS *L, U, A											
		BATTEN SIZE									
		1X3		75 {19}	75 {28}	75 {38}	67 {42}	51 {38}	32 {28}	22 {22}	N/A N/A
		1X4		75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	32 {37}	21 {28}	N/A N/A
		1X5		75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	21 {35}	N/A N/A
		1X6		75 {38}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	21 {41}	N/A N/A
		1X6 - 45°		75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	22 {42} 20 {42}
		1X8		63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A N/A
		1X8 - 45°		75 {40}	53 {42}	40 {42}	32 {42}	26 {42}	23 {42}	20 {42}	18 {42} 16 {42}
		2X8		63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A N/A
		2X8 - 45°		75 {40}	53 {42}	40 {42}	32 {42}	26 {42}	23 {42}	20 {42}	18 {42} 16 {42}
		2X8 -6SB		63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A N/A

NOTES

1. MEMBER REACTION {lbs} VALUES ARE AT EACH ANCHORAGE POINT.
2. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
3. EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.

3.1. #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)

3.2. #8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD

3.2.1. TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31

3.2.2. TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50
4. MAXIMUM DEFLECTION = L/180
5. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
6. DESIGN PRESSURES ARE LIMITED TO 75 PSF
7. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
8. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
9. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORENTATION INSTALLS.



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SPAN TABLE - SINGLE SPAN INFORMATION

SCALE: NTS

02/19/25

S3

SYSTEM = MOSAIC BATTENS

SPAN ANCHORAGE CHARTS - MULTI SPAN

MULTI-ATTACHMENT ANCHORAGE CHART				
FRAMING: CLOSED WALL FRAMING		* ATTACHMENT OPTIONS AVAILABLE: L= L-BRACKET U= U-BRACKET A= ANGLE BRACKET DS= BATTEN DIRECT TO SUBSTRATE		
BATTEN TYPE		ALLOWABLE LOAD - psf {REACTION - lb}		
MOSAIC SOLID BATTENS *L, U, A				
		BATTEN SIZE		
		1X3	12 {40}	40 {80} 75 {118}
		1X4	12 {53}	39 {105} 75 {157}
		1X5	9 {54}	38 {129} 75 {196}
		1X6	11 {78}	38 {154} 75 {235}
		1X6 - 45°	26 {248}	74 {248} 75 {233}
		1X8	14 {125}	46 {247} 59 {248}
		1X8 - 45°	34 {248}	58 {248} 75 {248}
		2X8	27 {248}	46 {248} 59 {248}
		2X8 - 45°	34 {248}	58 {248} 75 {248}
		2X8 -6SB	27 {248}	46 {248} 59 {248}

NOTES

1. MEMBER REACTION {lbs} VALUES SHOW LARGEST REACTION FORCE FROM THE ENTIRE SPAN, AT AN INDIVIDUAL ANCHORAGE POINT.
2. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
3. EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.

3.1. #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)

3.2. #8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD

3.2.1. TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31

3.2.2. TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50
4. MAXIMUM DEFLECTION = L/180
5. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
6. DESIGN PRESSURES ARE LIMITED TO 75 PSF
7. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
8. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
9. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORENTATION INSTALLS.



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SPAN TABLE - MULTI SPAN INFORMATION

SCALE: NTS

02/19/25

S4

SYSTEM = MOSAIC BATTENS

EXPANSION AND CONTRACTION TABLE FOR ALUMINUM 6063												
Average Temperature at Time of Cutting & Installation												
	°F	-20	0	10	20	35	50	65	80	95	105	120
Minimum and Maximum Temperature at Install Location	°F	Expansion or Contraction (Inches/Foot)										
	-20	0.000	0.003	0.002	0.006	0.008	0.011	0.013	0.015	0.017	0.019	0.021
	0	0.003	0.000	0.002	0.003	0.005	0.008	0.010	0.012	0.014	0.016	0.018
	10	0.005	0.002	0.000	0.002	0.004	0.006	0.008	0.011	0.013	0.014	0.017
	20	0.006	0.003	0.002	0.000	0.002	0.005	0.007	0.009	0.011	0.013	0.015
	35	0.008	0.005	0.004	0.002	0.000	0.002	0.005	0.007	0.009	0.011	0.013
	50	0.011	0.008	0.006	0.005	0.002	0.000	0.002	0.005	0.007	0.008	0.011
	65	0.013	0.010	0.008	0.007	0.005	0.002	0.000	0.002	0.005	0.006	0.008
	80	0.015	0.012	0.011	0.009	0.007	0.005	0.002	0.000	0.002	0.004	0.006
	95	0.017	0.014	0.013	0.011	0.009	0.007	0.005	0.002	0.000	0.002	0.004
	105	0.019	0.016	0.014	0.013	0.011	0.008	0.006	0.004	0.002	0.000	0.002
	120	0.021	0.018	0.017	0.015	0.013	0.011	0.008	0.006	0.004	0.002	0.000

INSTRUCTIONS FOR USING THE EXPANSION AND CONTRACTION TABLE

1. DETERMINE THE:

1.1. TEMPERATURE AT THE TIME OF CUTTING/INSTALLATION OF MOSAIC BATTENS

1.2. TEMPERATURE HIGH AND LOW OF THE INSTALLATION AREA.
2. TO FIND MOSAIC BATTEN EXPANSION:

2.1. USE THE HIGH TEMPERATURE OF THE INSTALLATION AREA TO LOCATE THE CORRESPONDING VALUE IN THE LEFT COLUMN.

2.2. USE THE CURRENT TEMPERATURE AT THE TIME OF CUTTING/INSTALLATION TO LOCATE THE CORRESPONDING VALUE IN THE TOP ROW.

2.3. FIND THE VALUE WHERE THE COLUMN AND ROW INTERSECT. MULTIPLY THIS VALUE TIMES THE TOTAL LENGTH OF THE BATTEN AND THIS WILL BE THE AMOUNT THE BATTEN WILL EXPAND.
3. TO FIND MOSAIC BATTEN CONTRACTION:

3.1. PERFORM STEPS 2.1 TO 2.3, EXCEPT USE THE LOW TEMPERATURE OF THE INSTALLATION AREA WHEN LOCATING YOUR COLUMN VALUE.

ALTERNATIVELY THIS EQUATION MAY BE USED:

THERMAL (EXPANSION OR CONTRACTION) CHANGE IN LENGTH (INCHES)

=

(12.5×10^{-6})

X

STARTING BATTEN LENGTH (INCHES)

X

CHANGE IN TEMPERATURE (°F)

L^L

Lumabuilt

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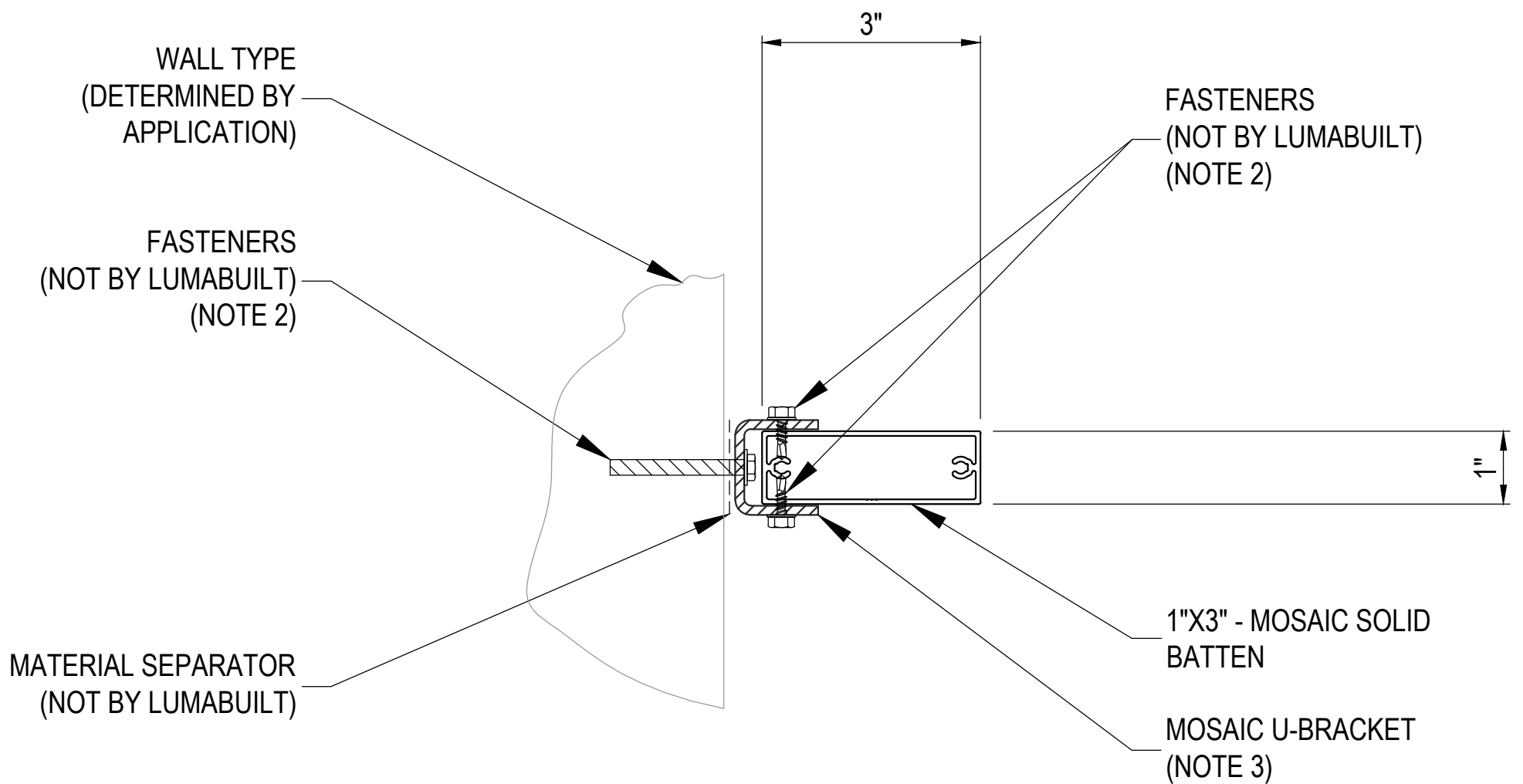
EXPANSION/CONTRACTION TABLE

SCALE: NTS

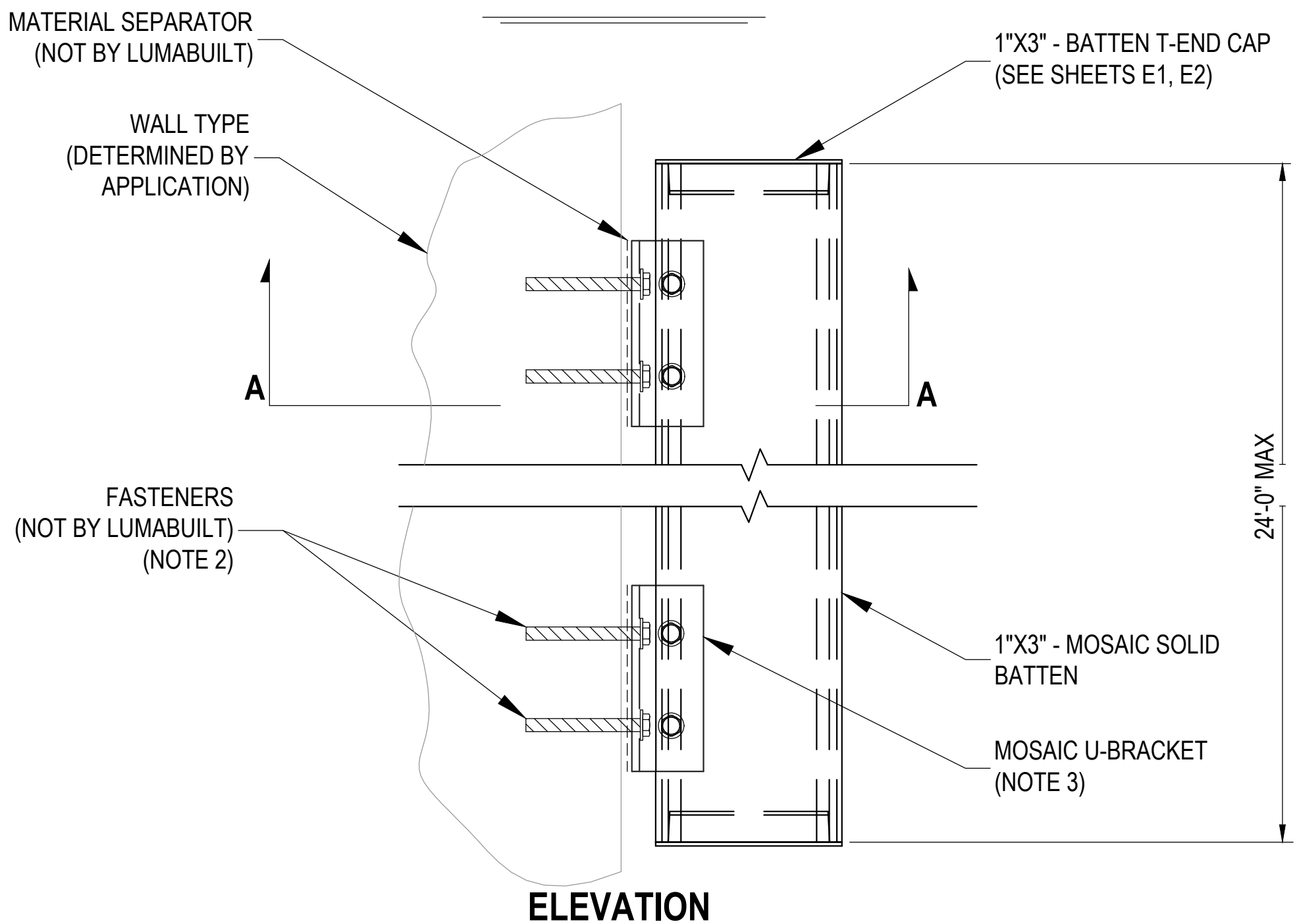
02/19/25

A1

SYSTEM = MOSAIC BATTENS



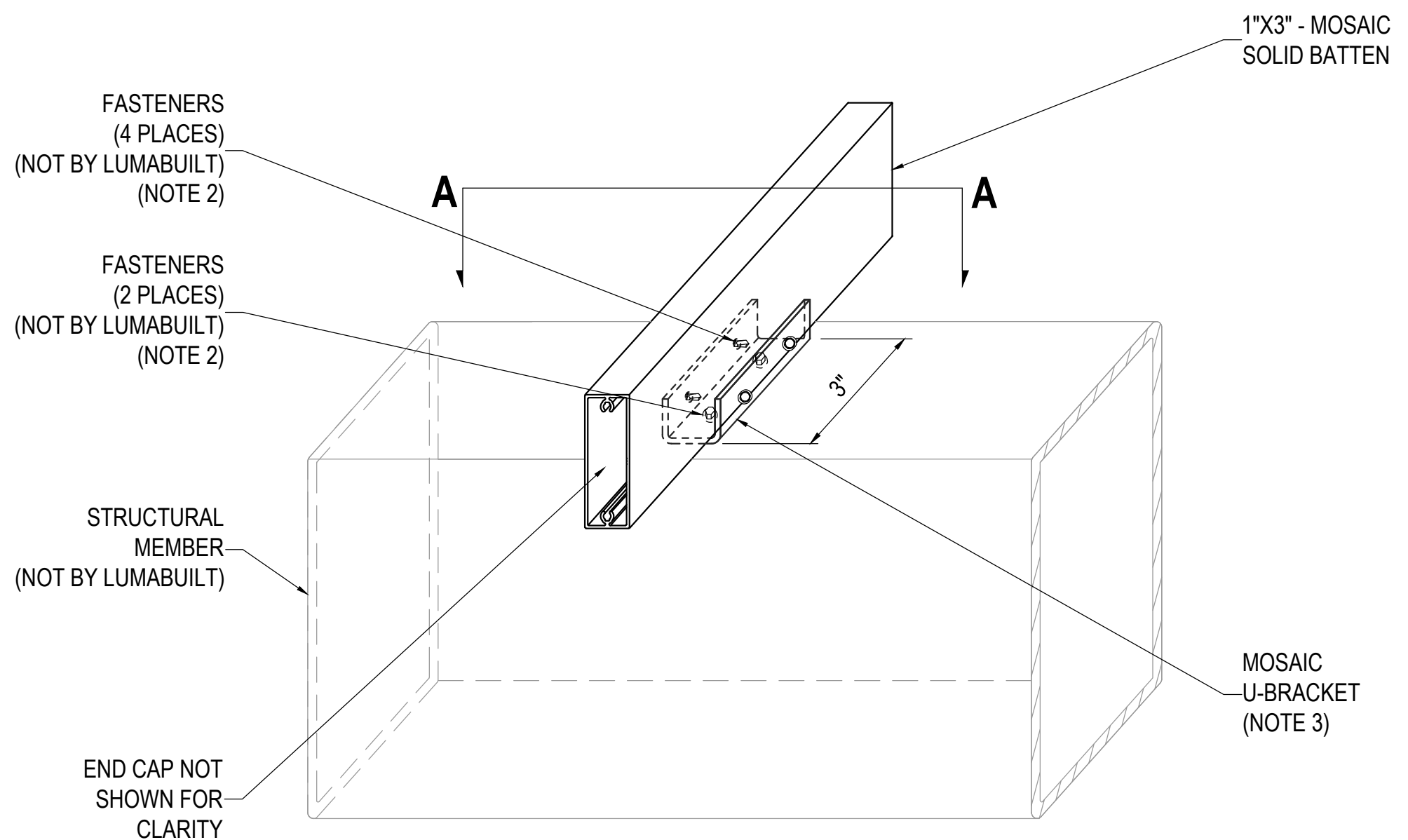
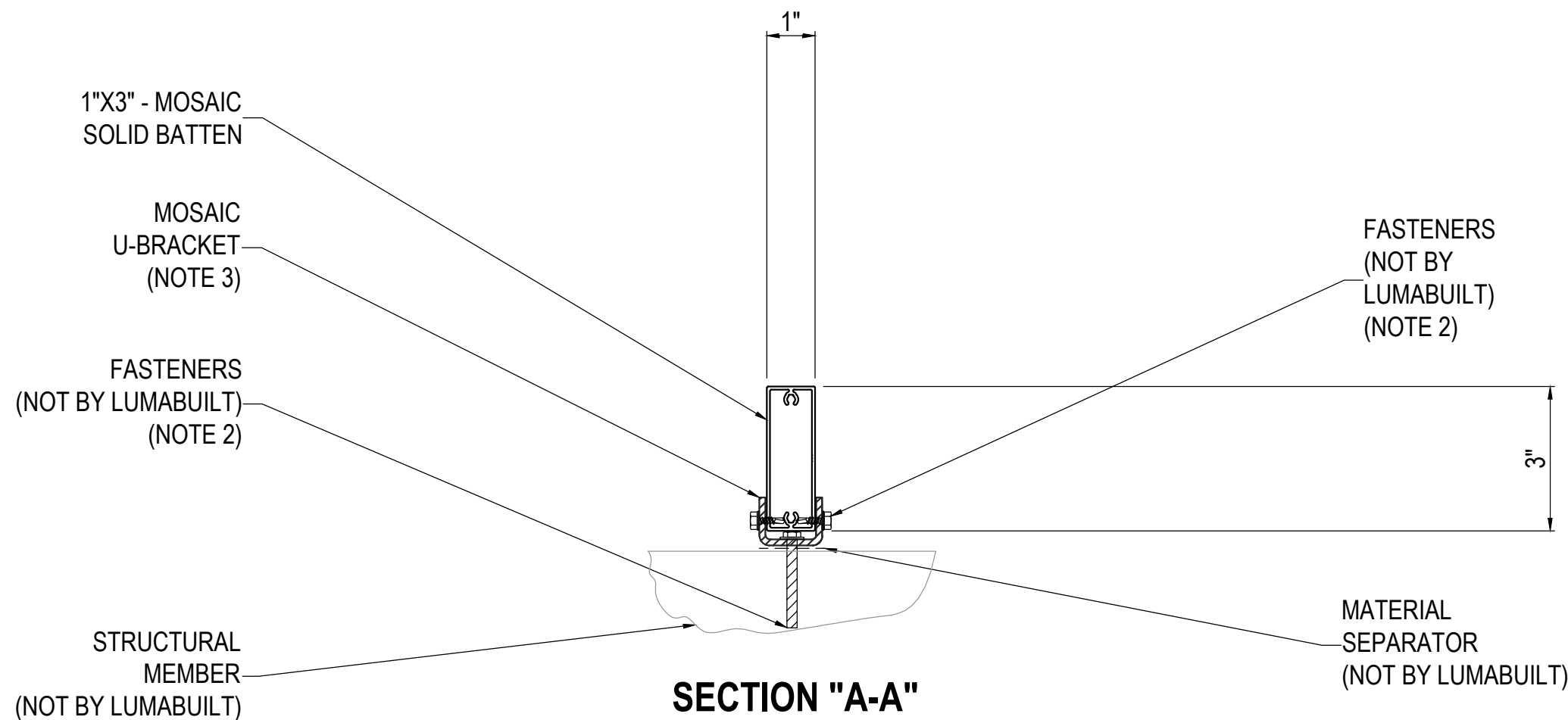
SECTION "A-A"



ELEVATION

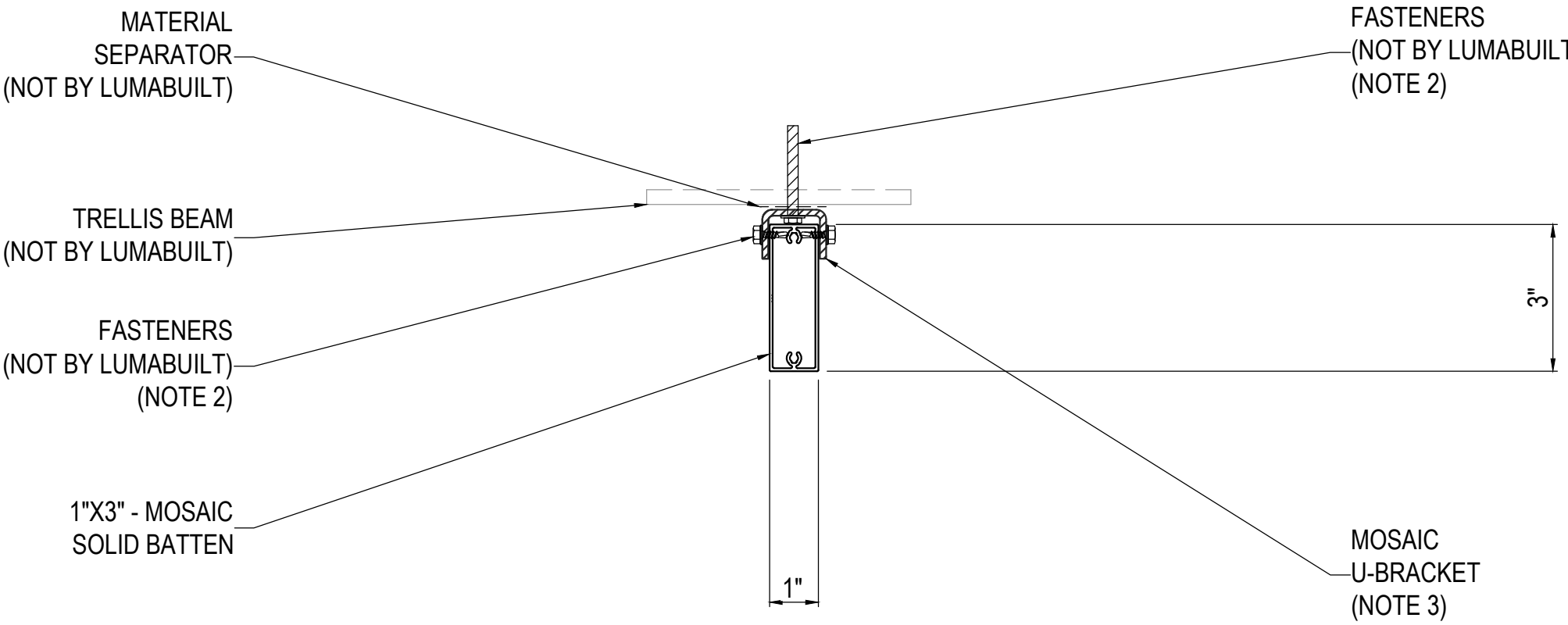
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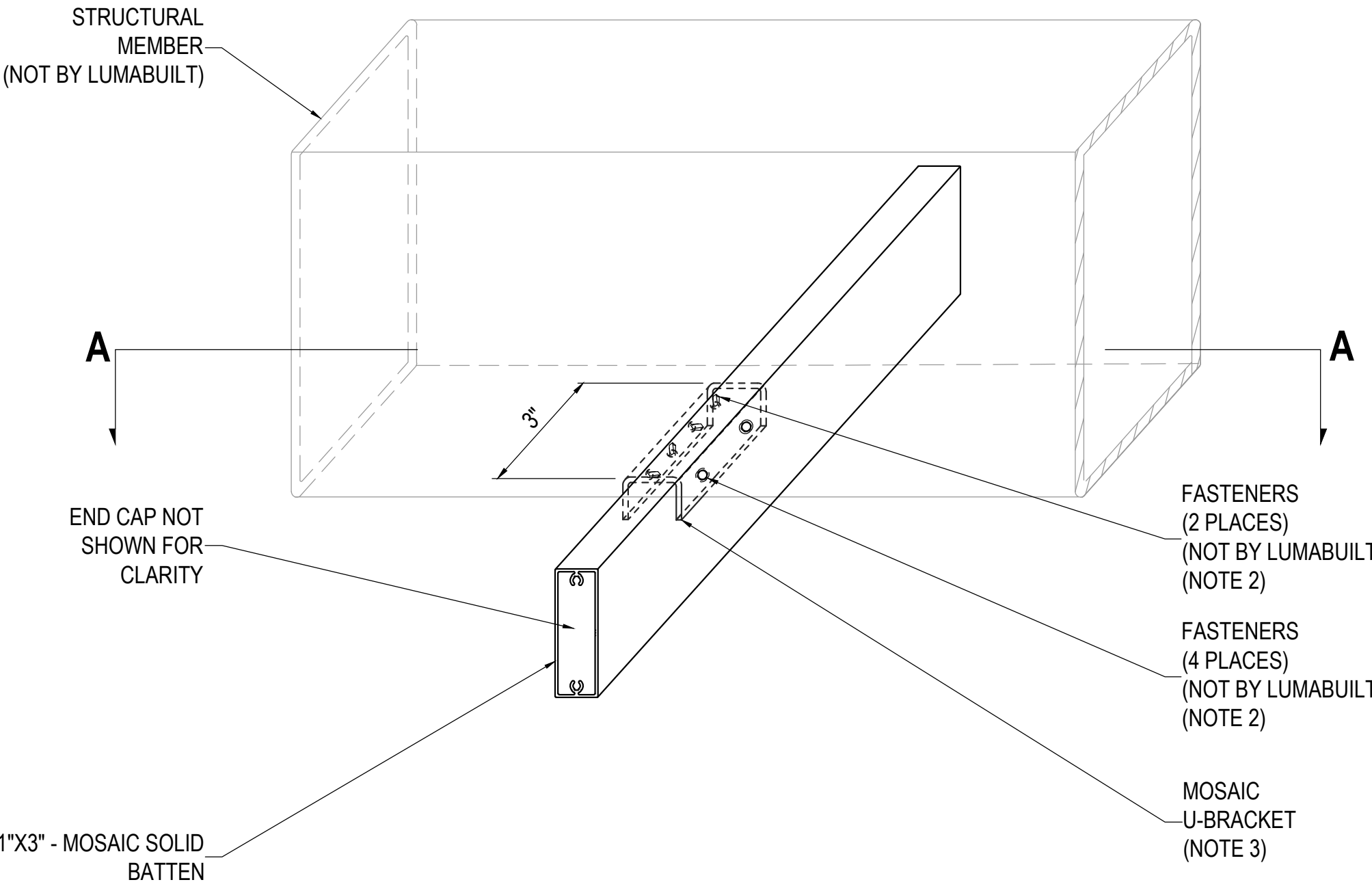


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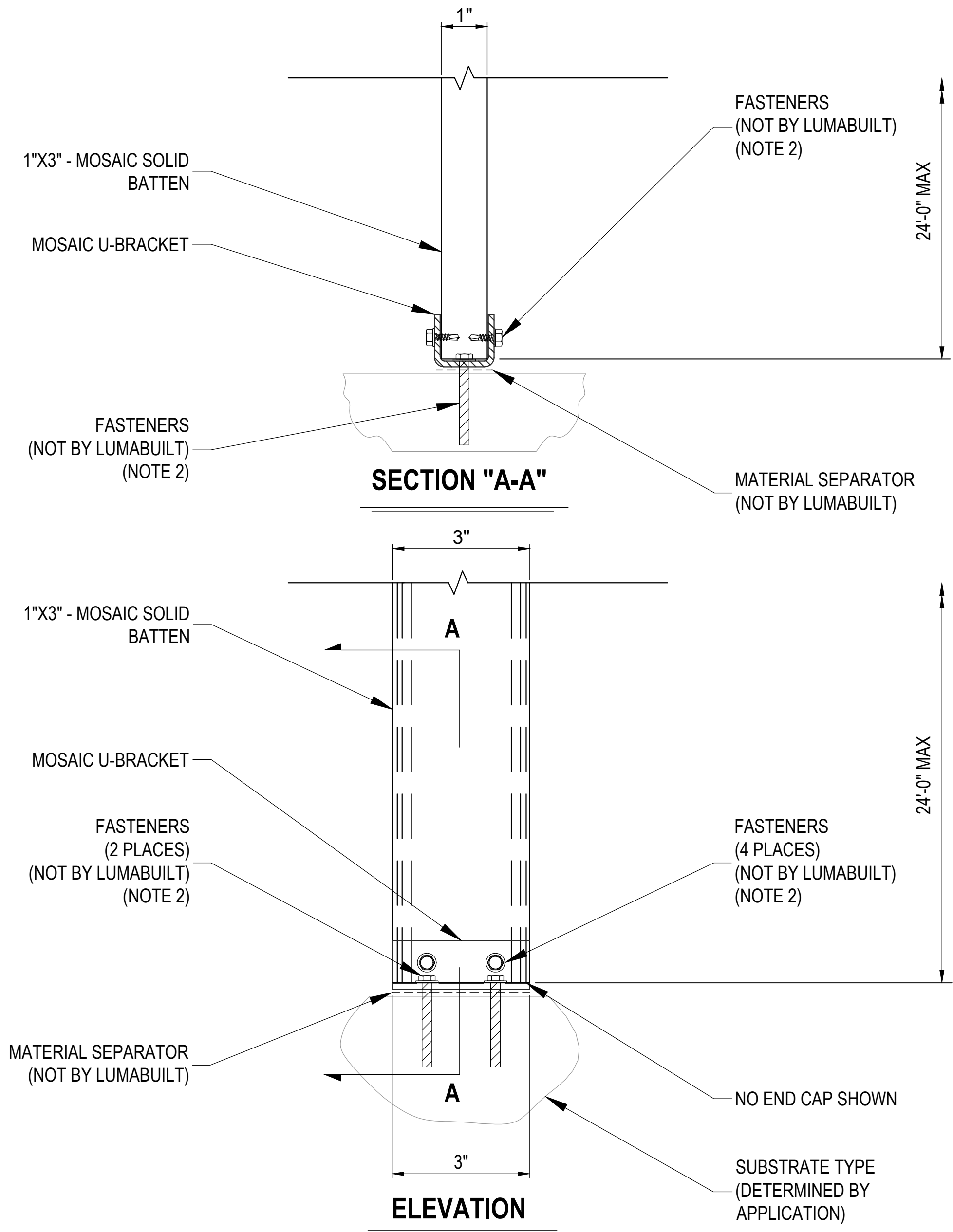
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SECTION "A-A"

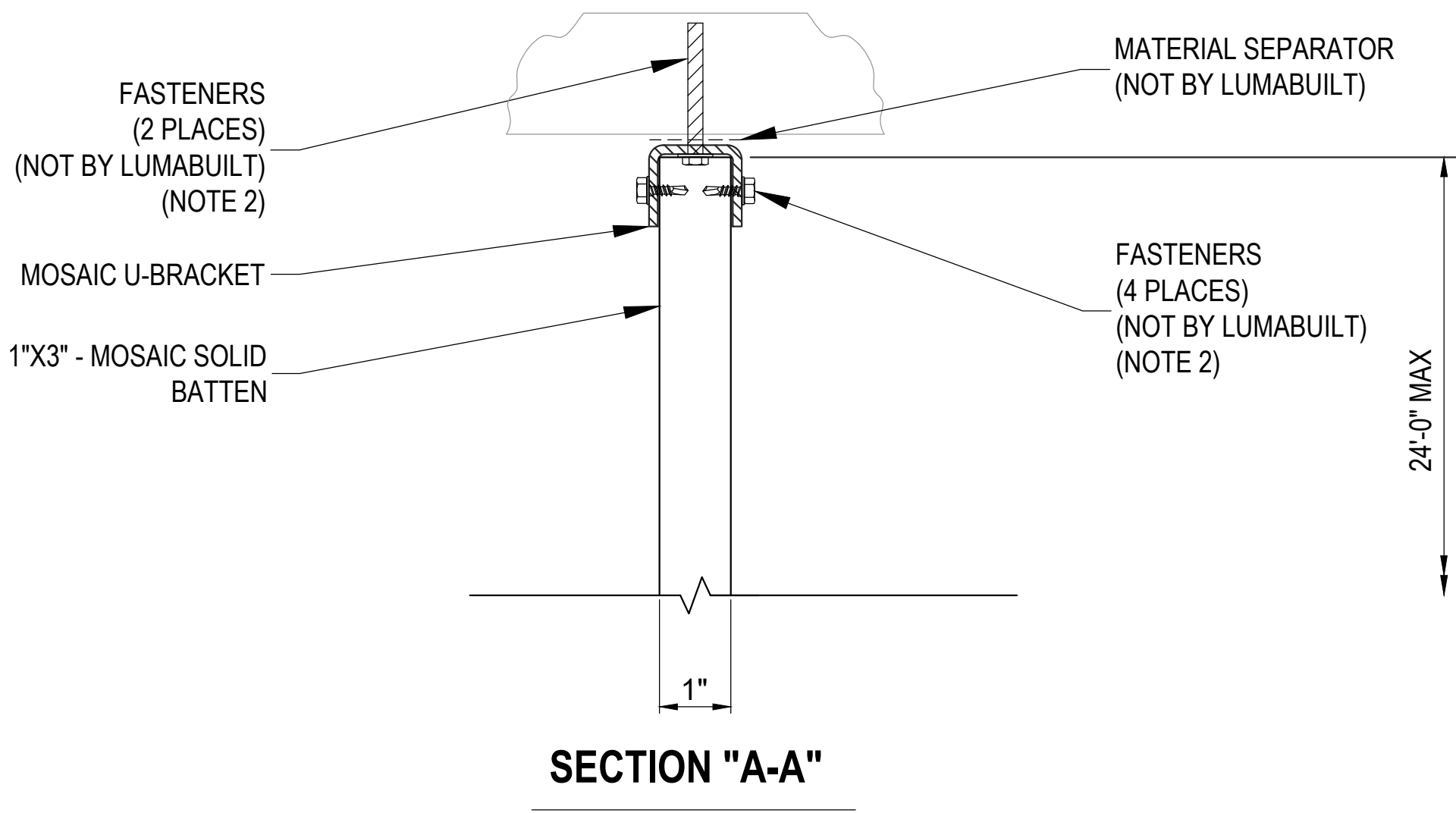
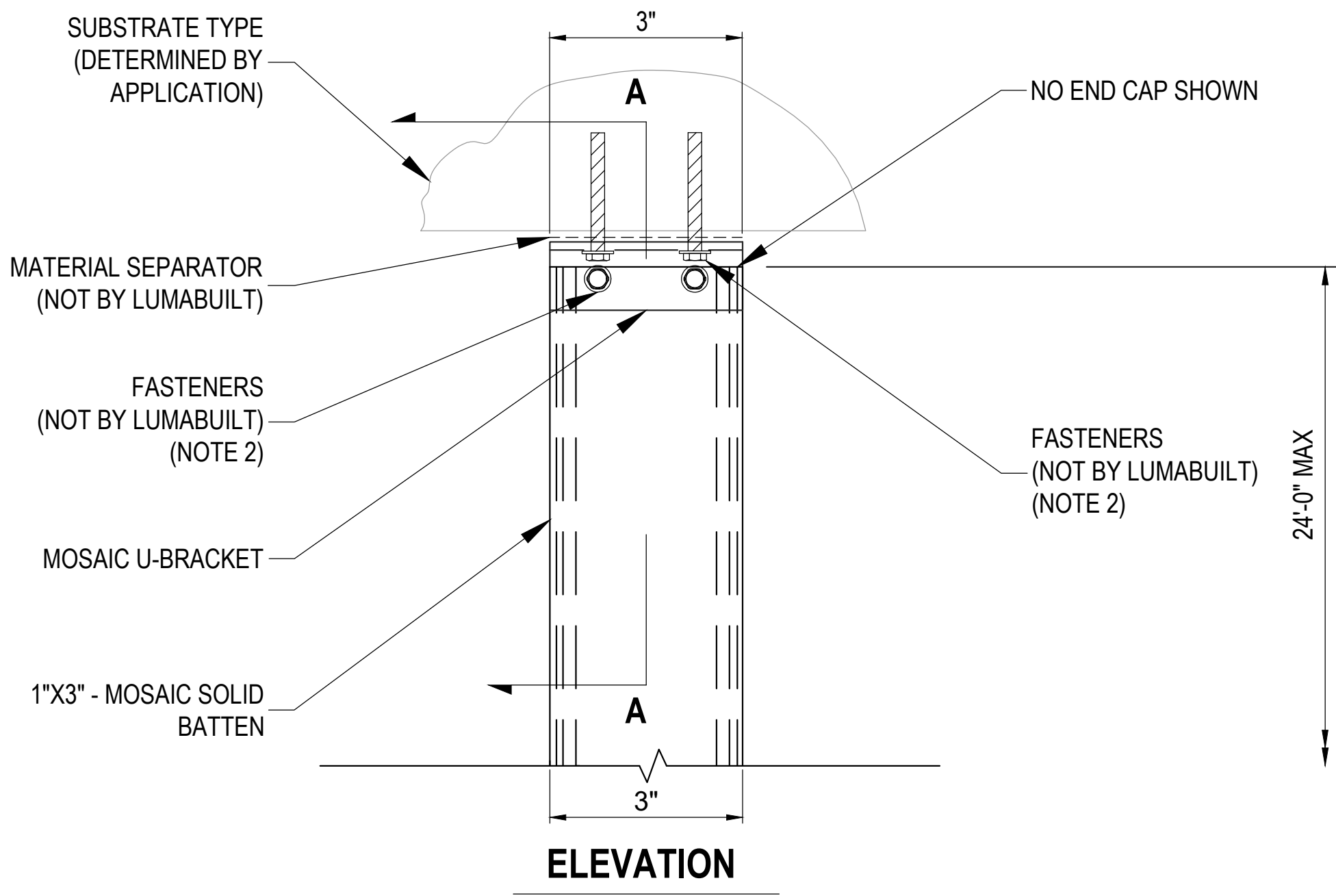


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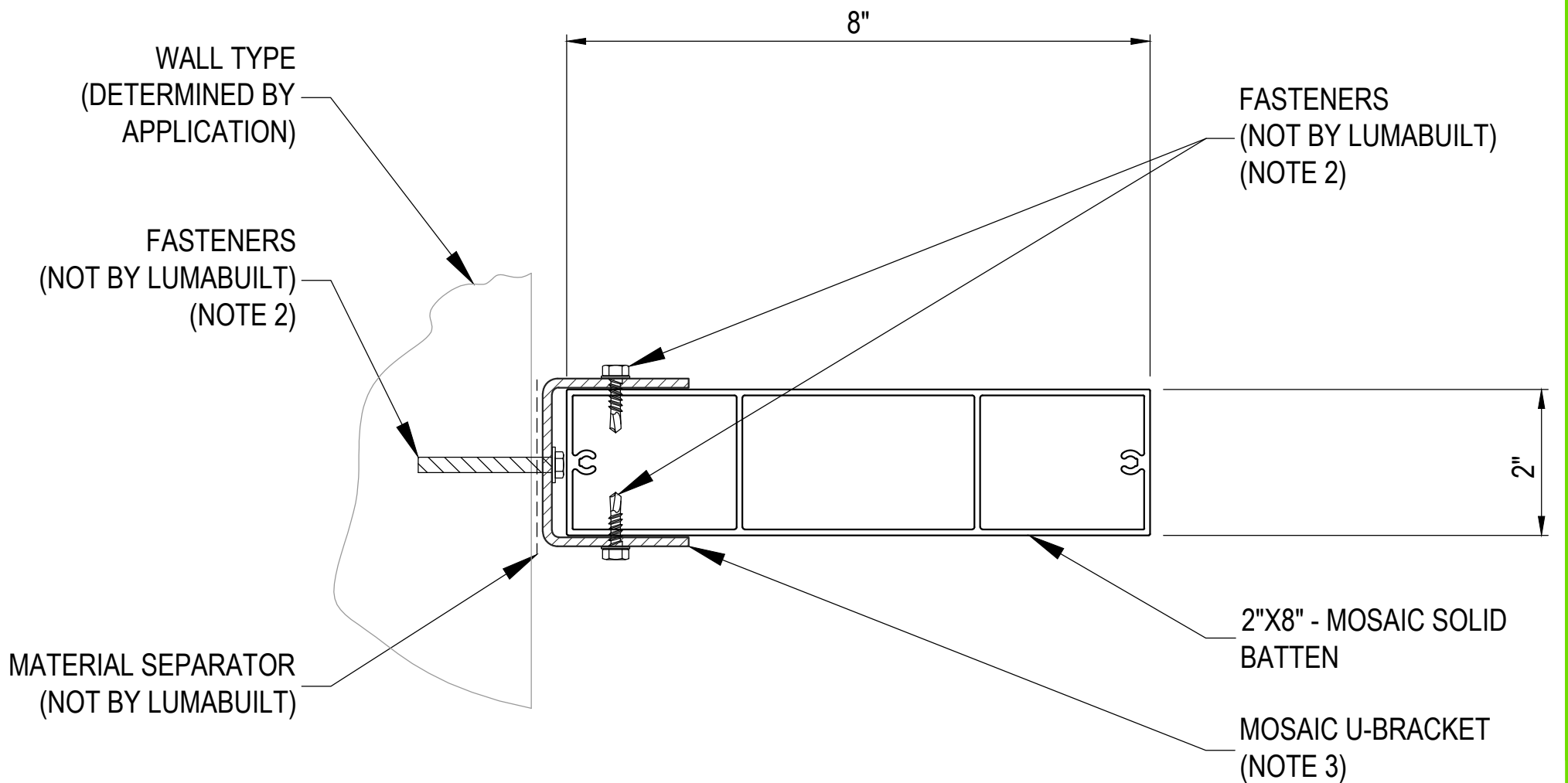
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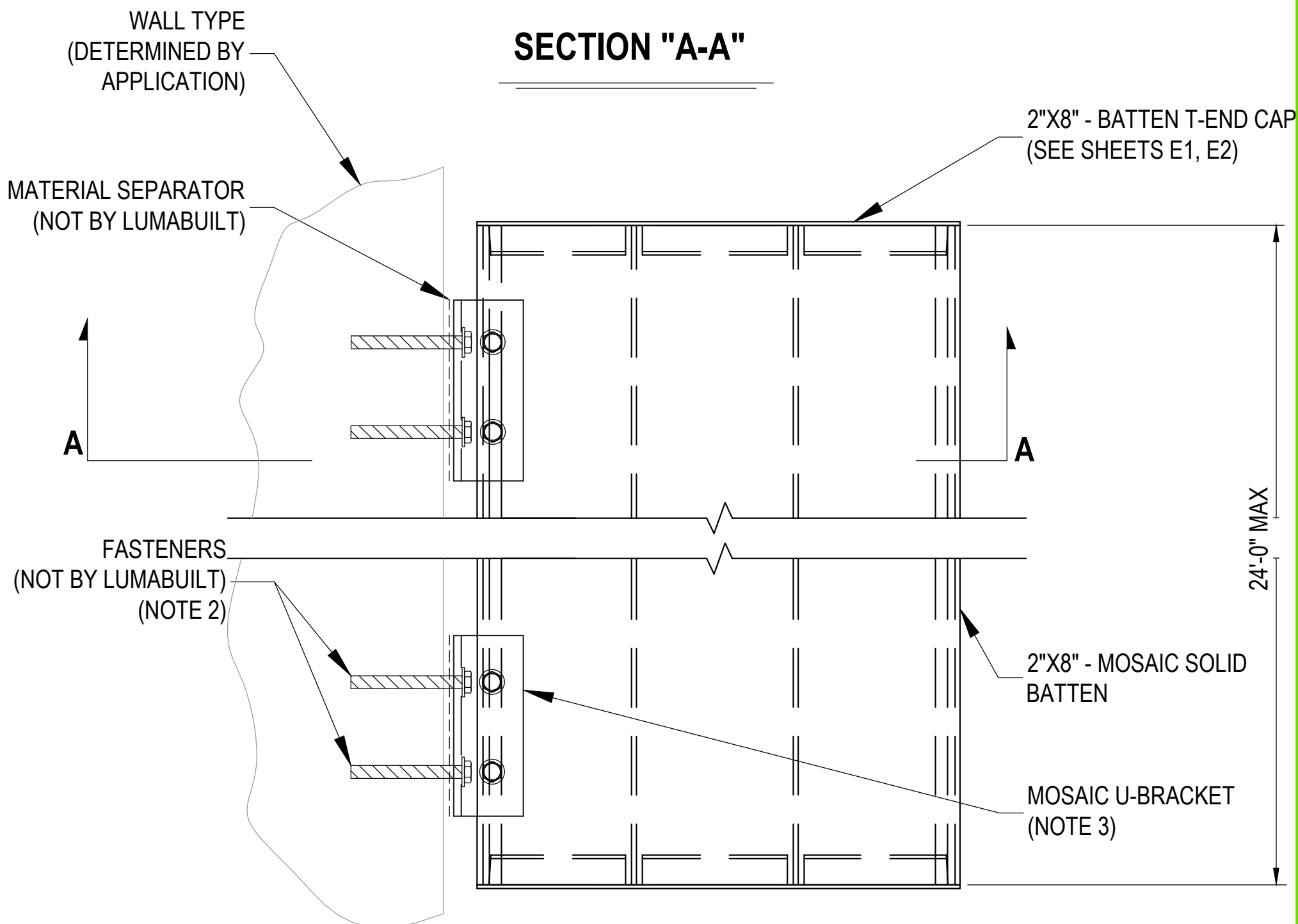


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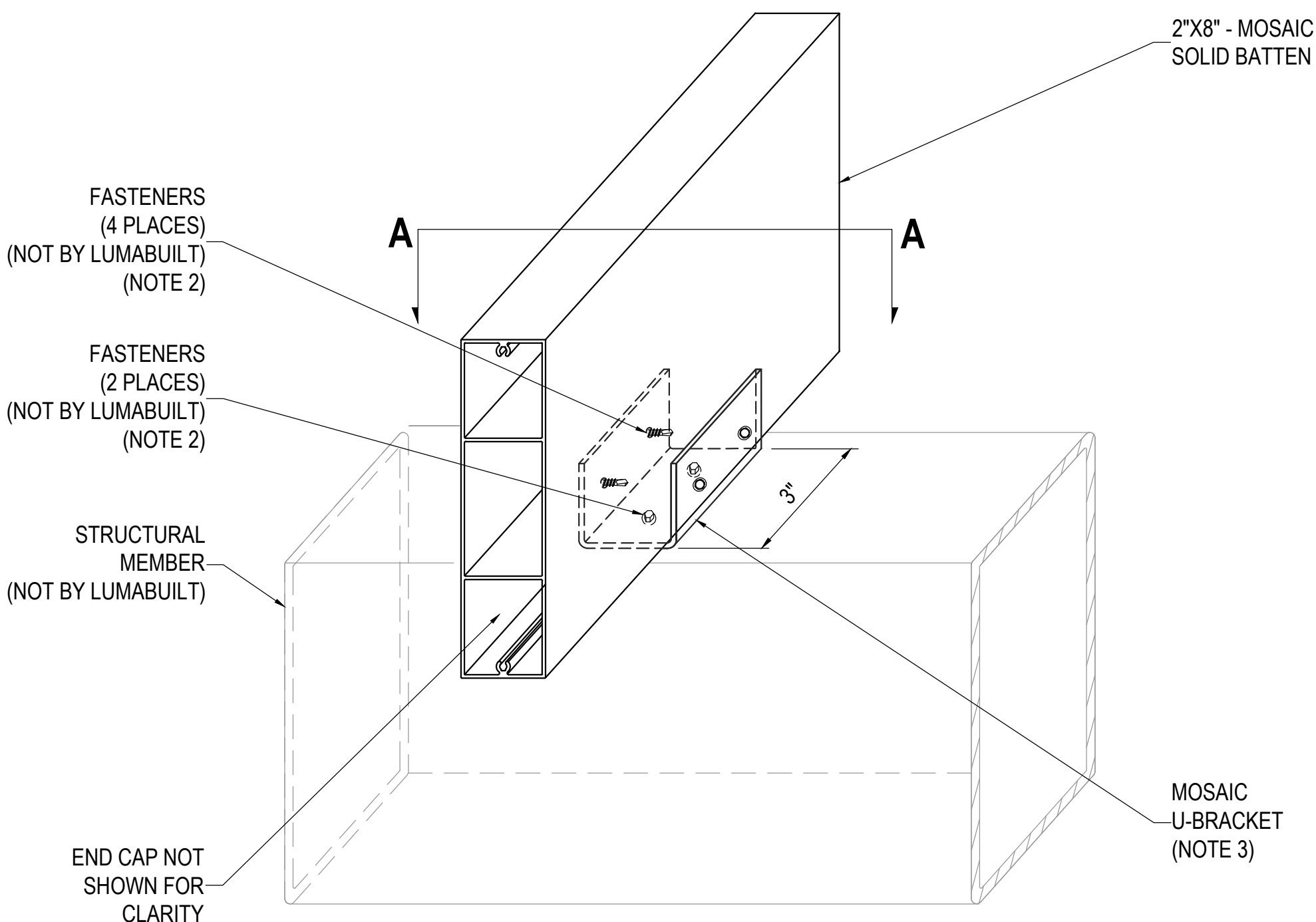
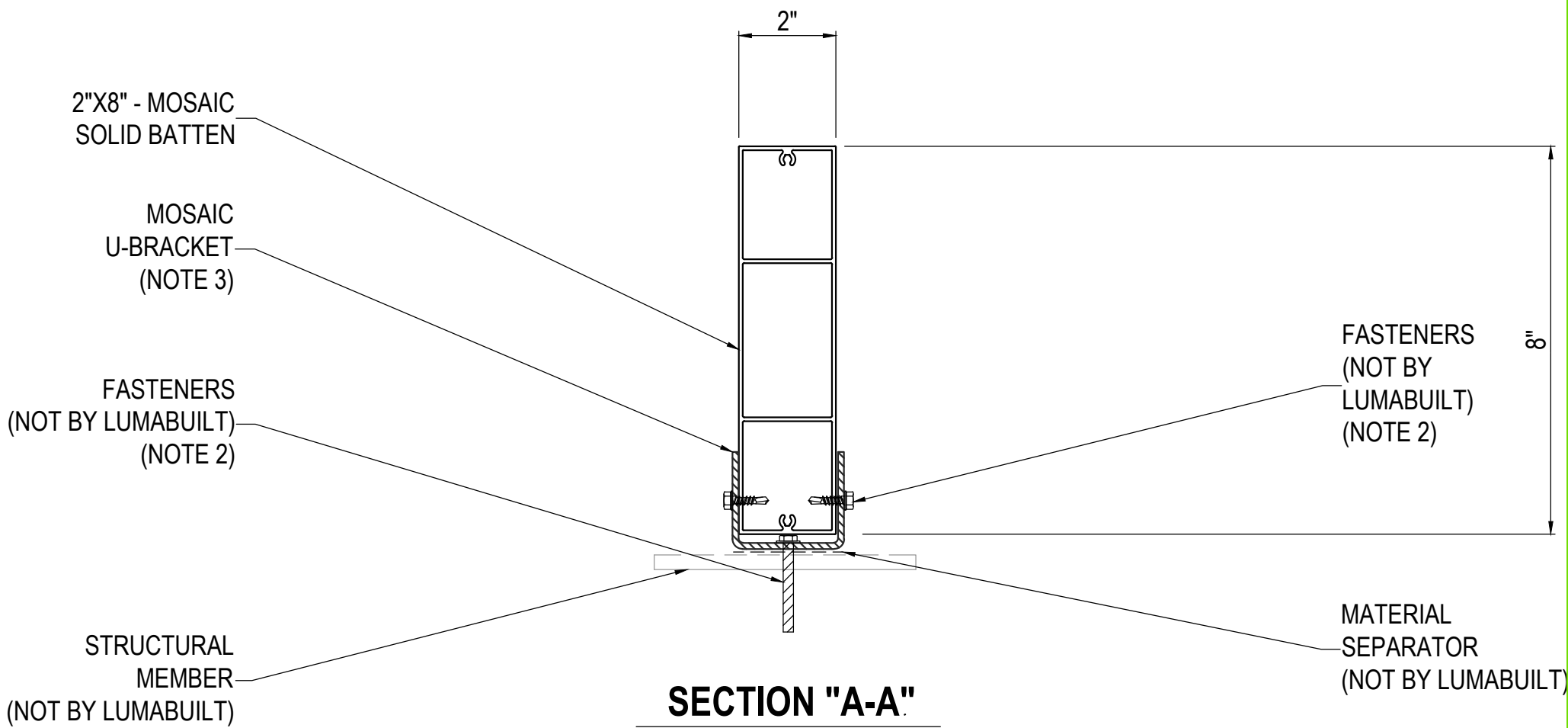
SECTION "A-A"



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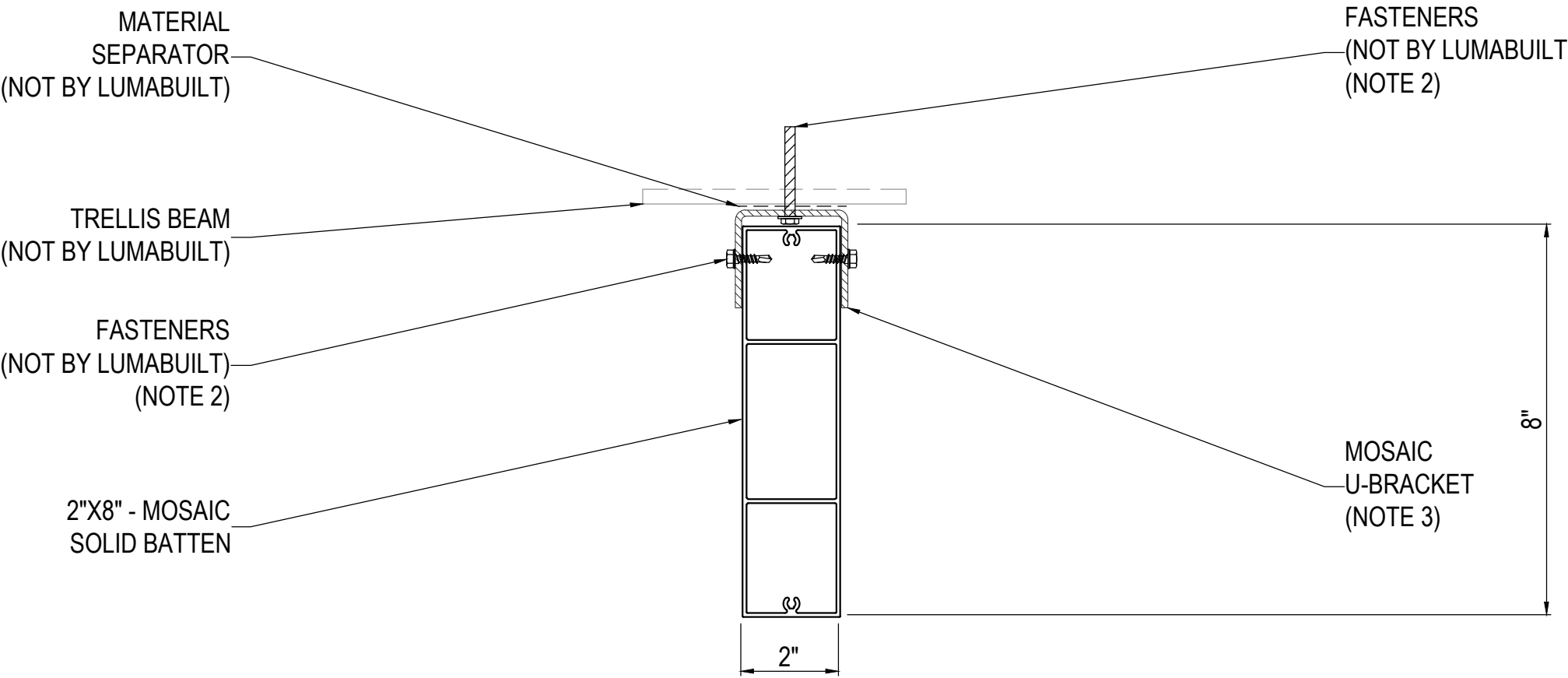
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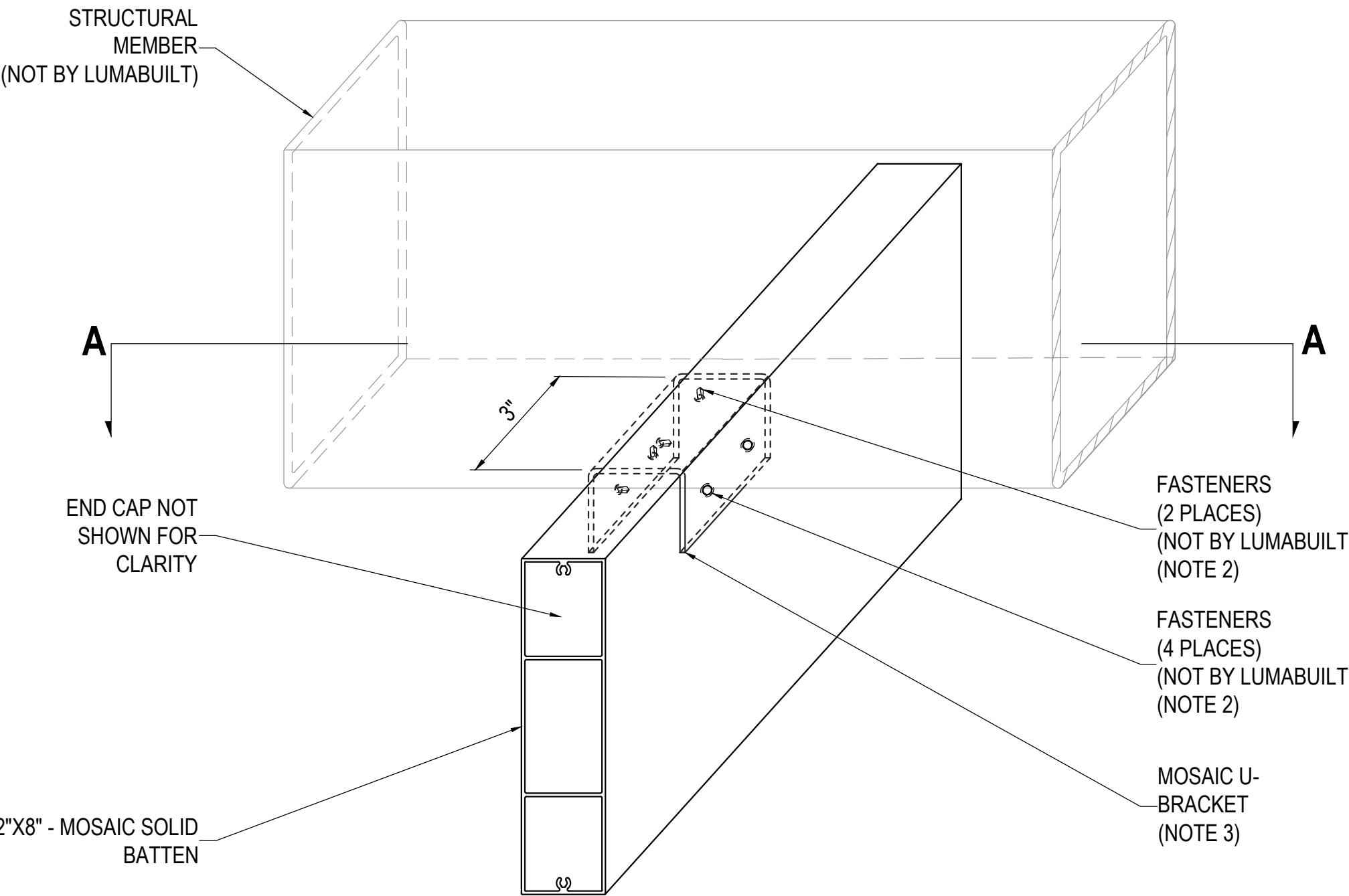


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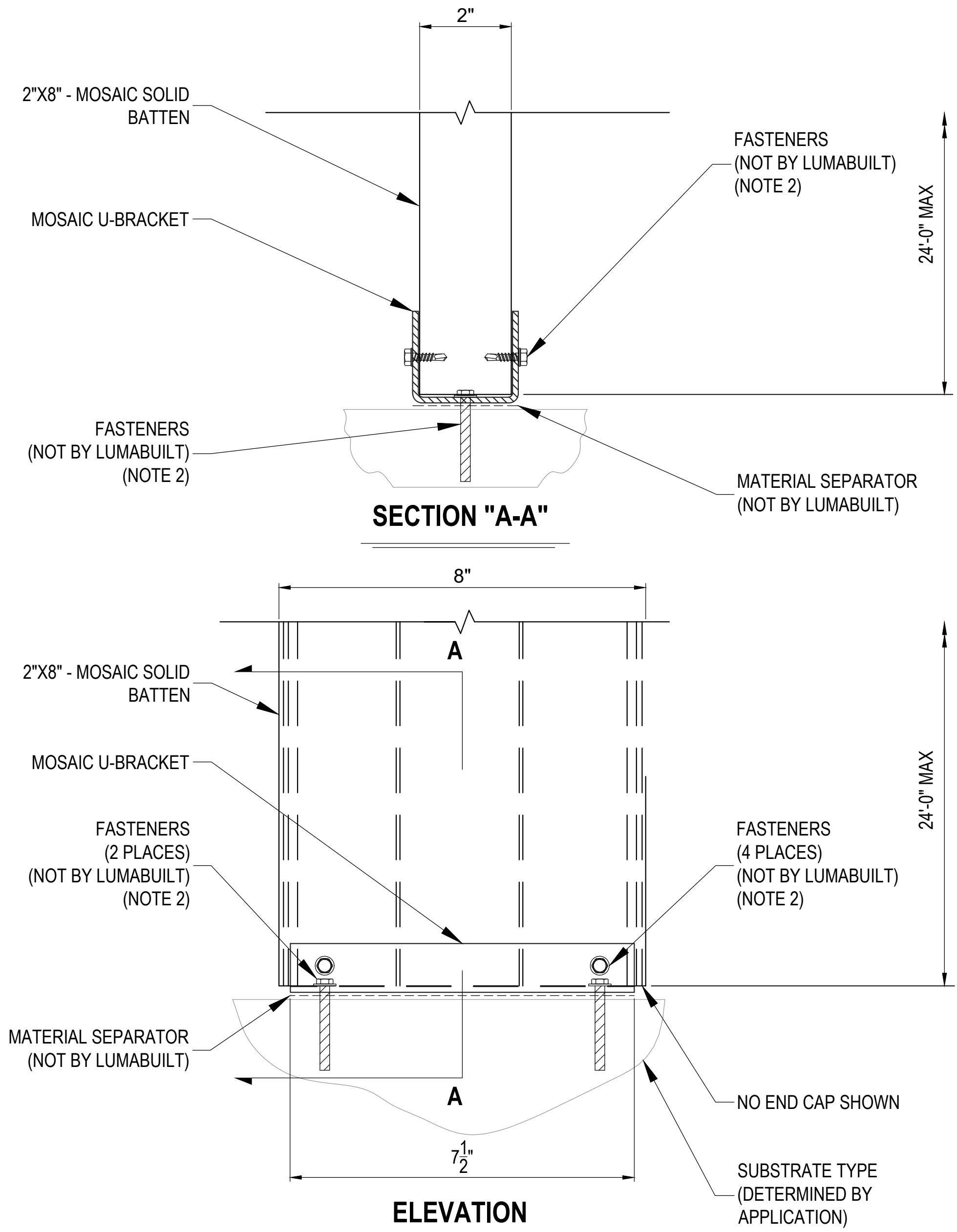


SECTION "A-A"



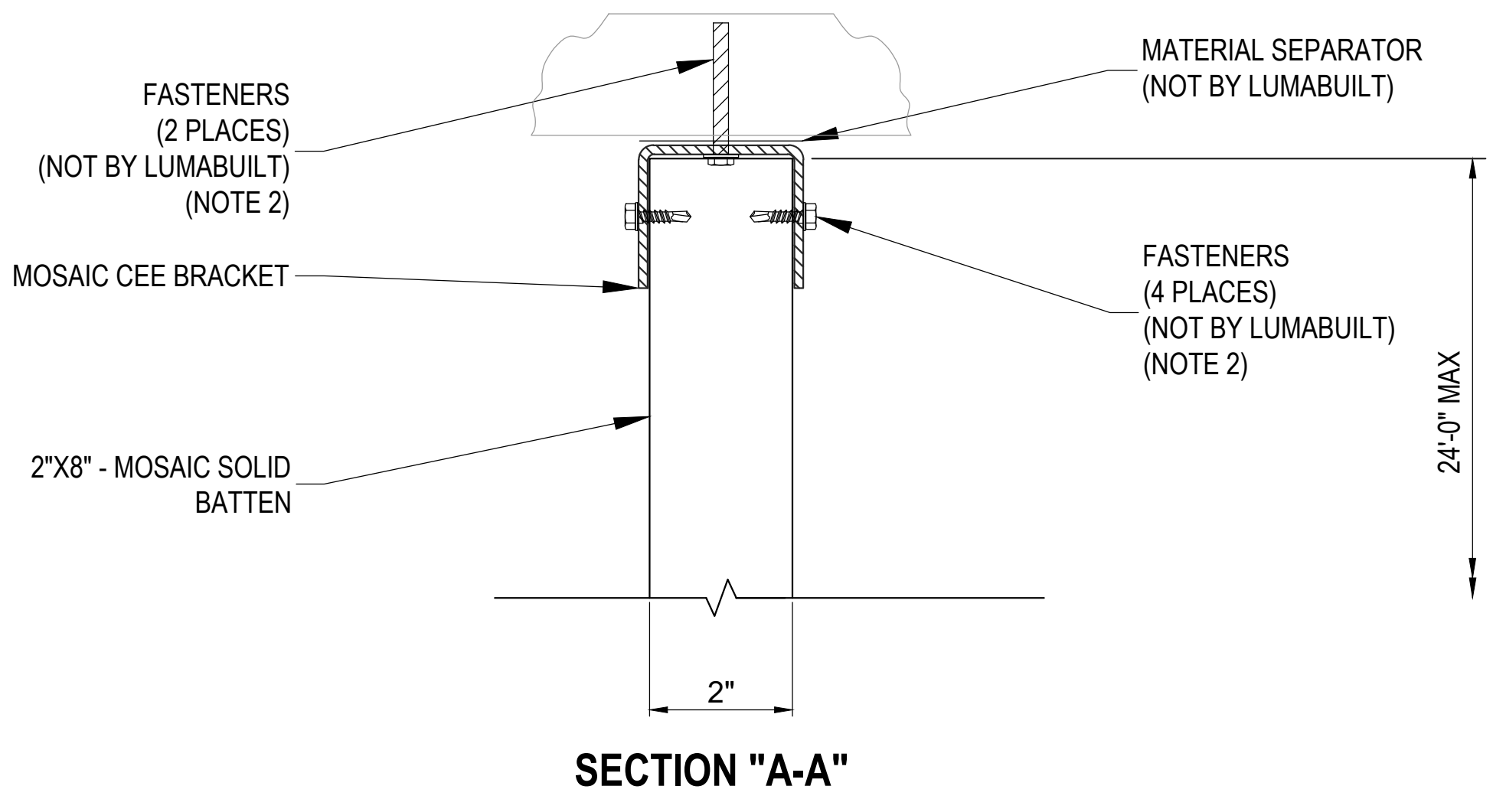
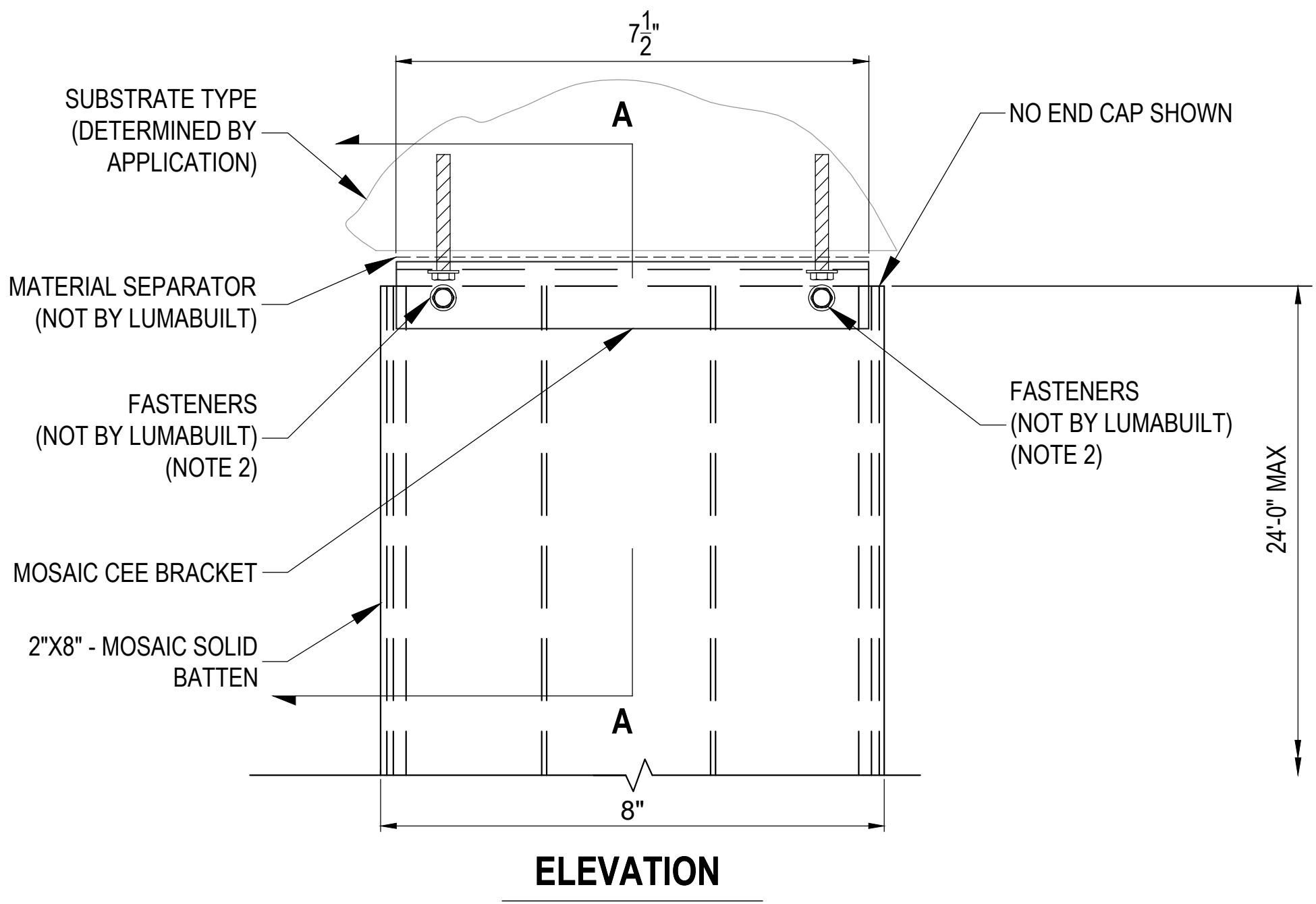
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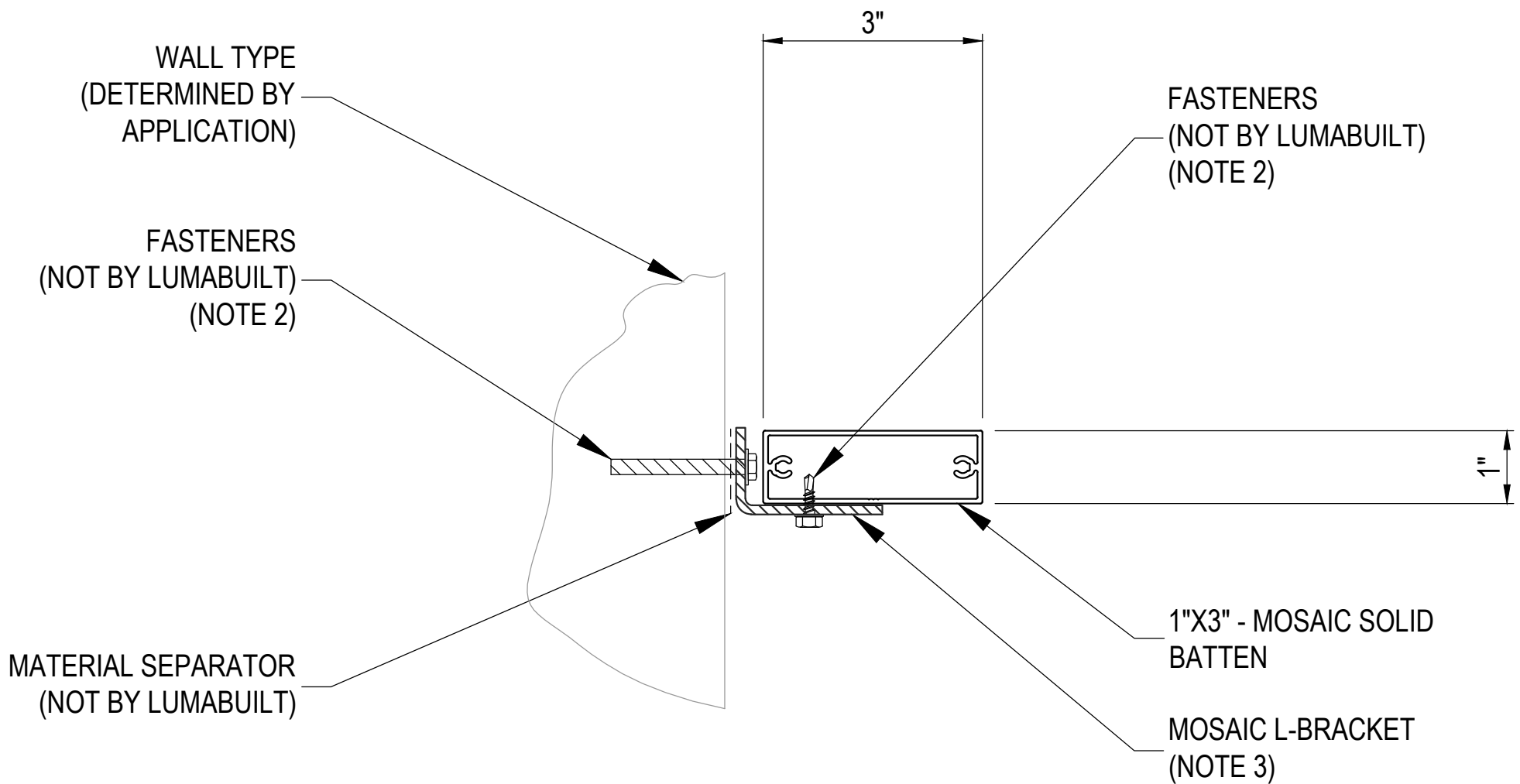


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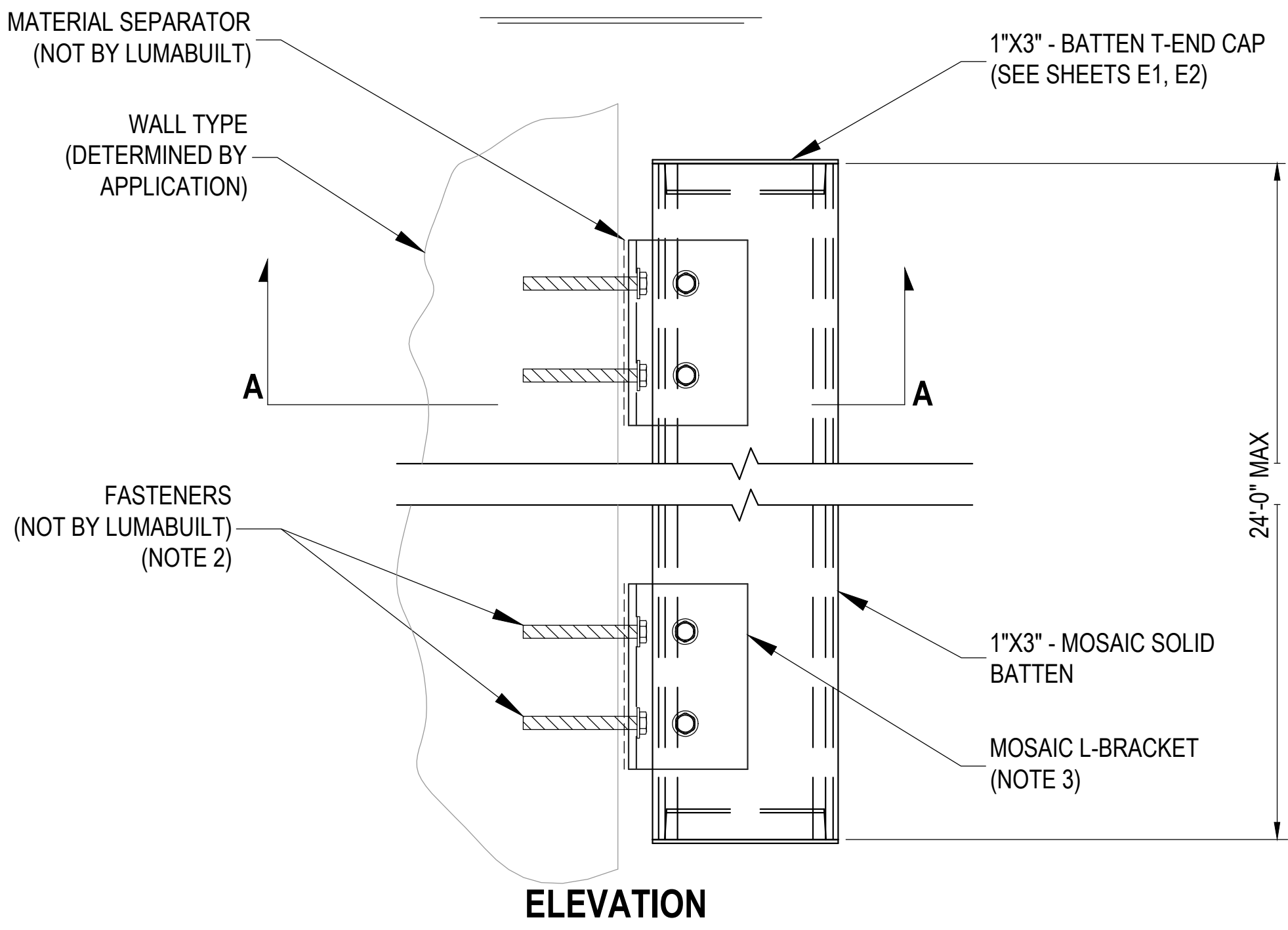
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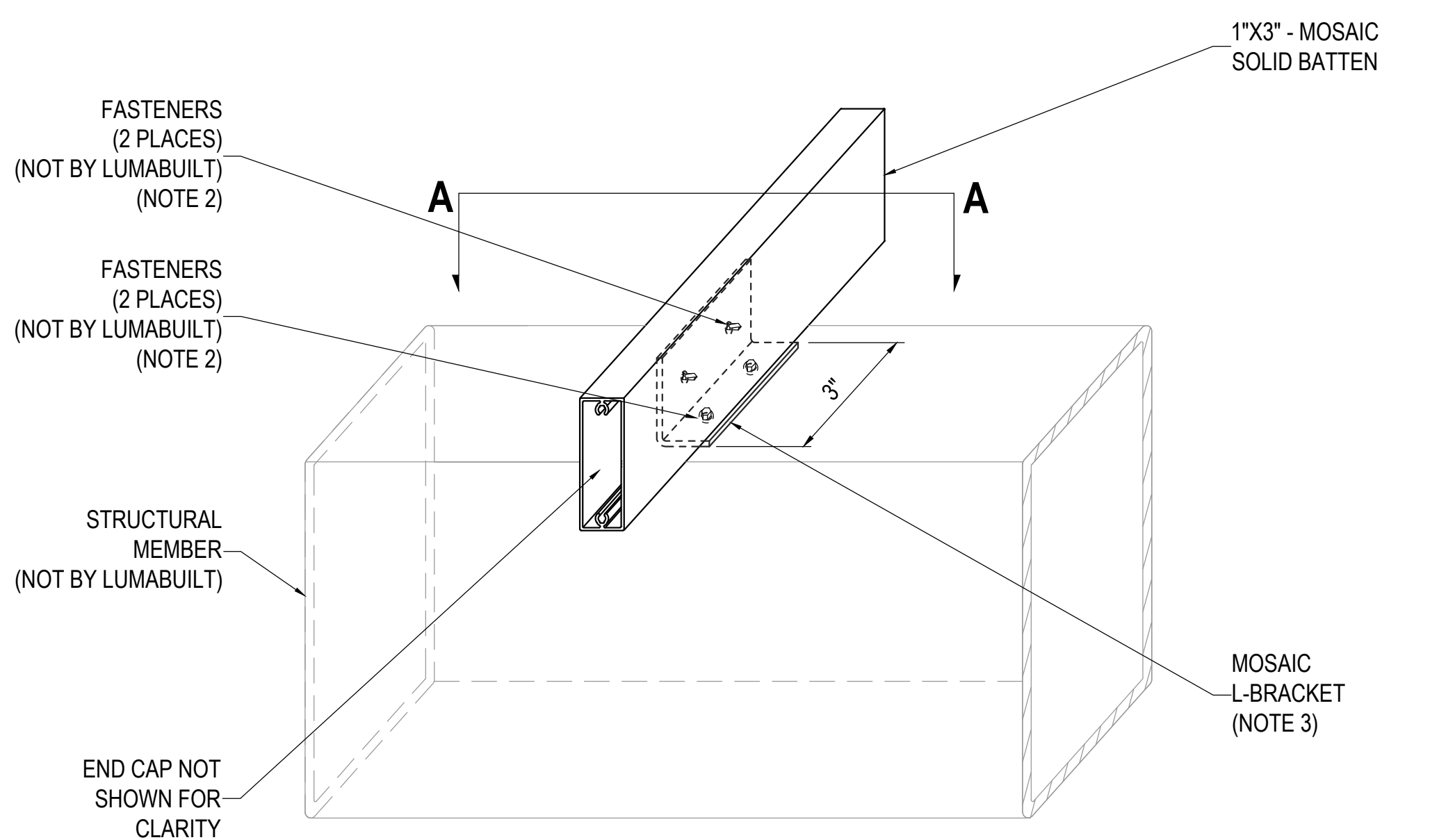
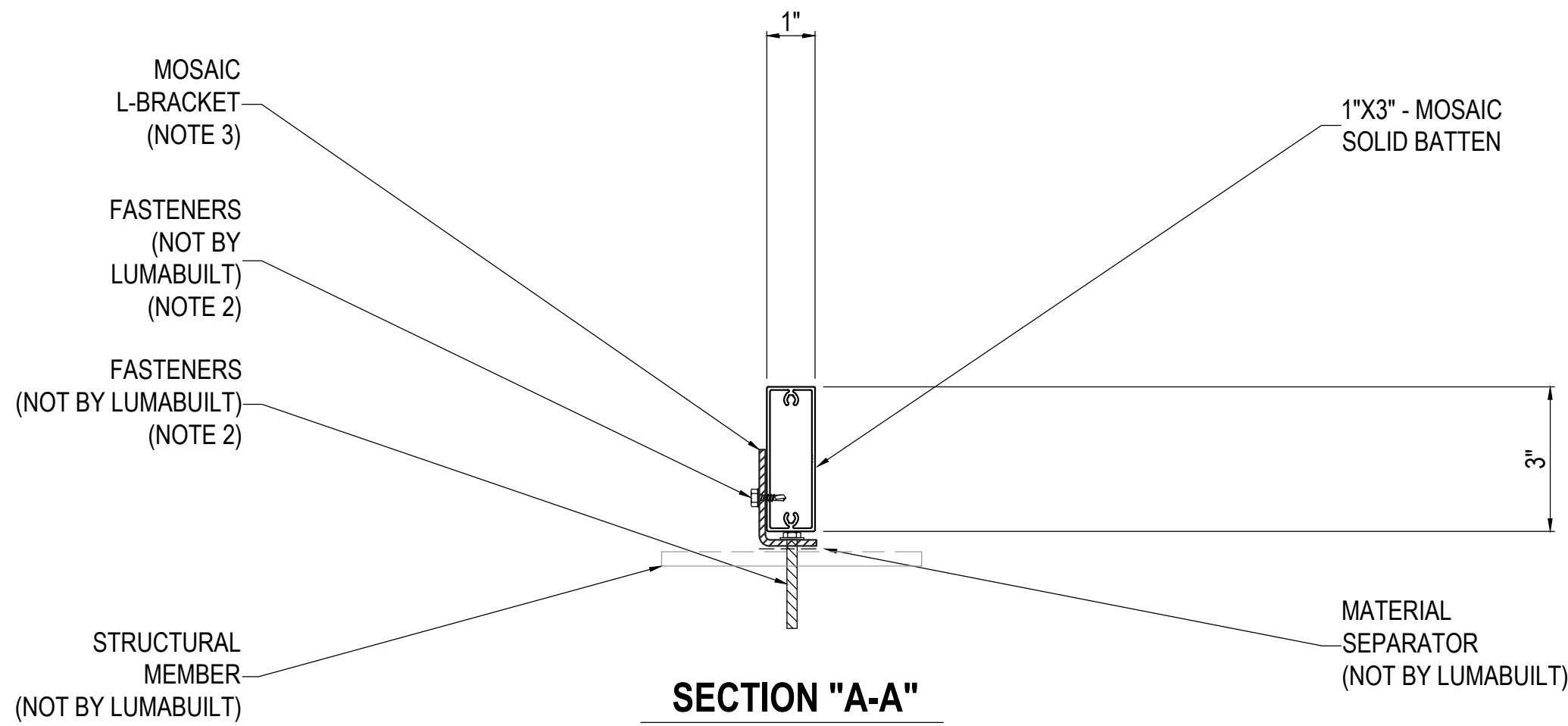
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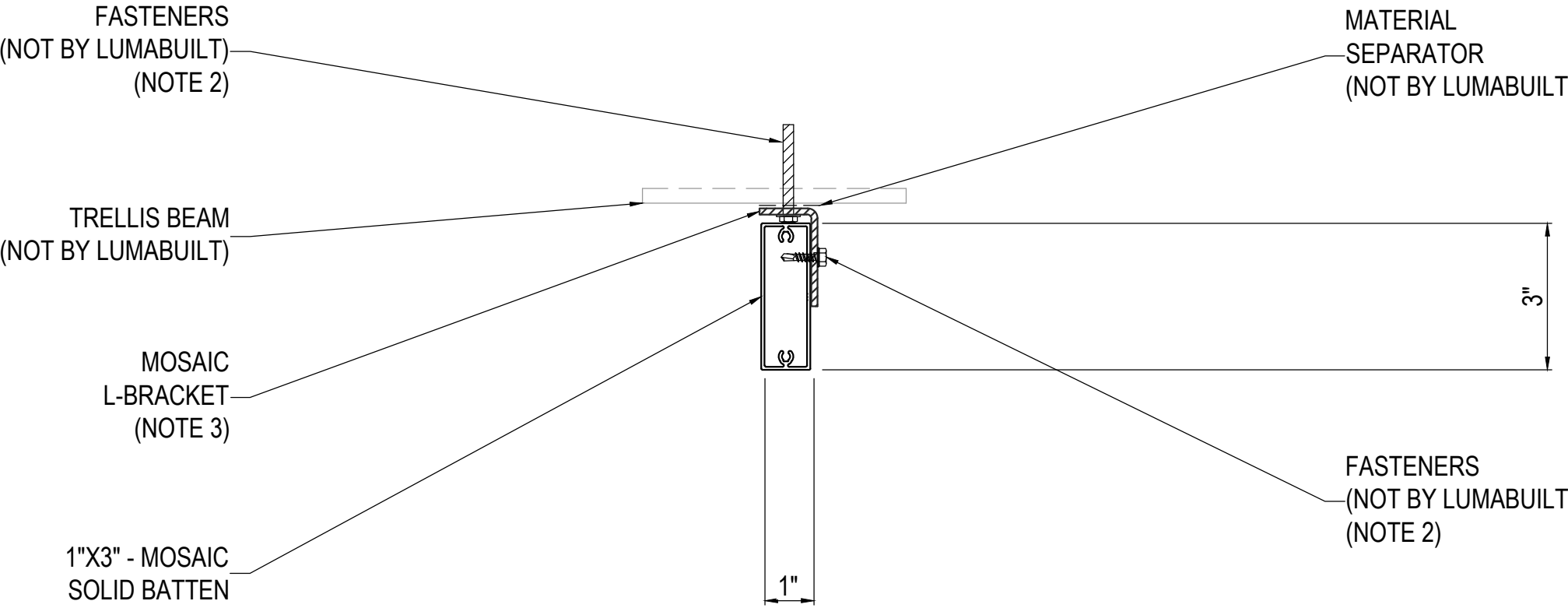
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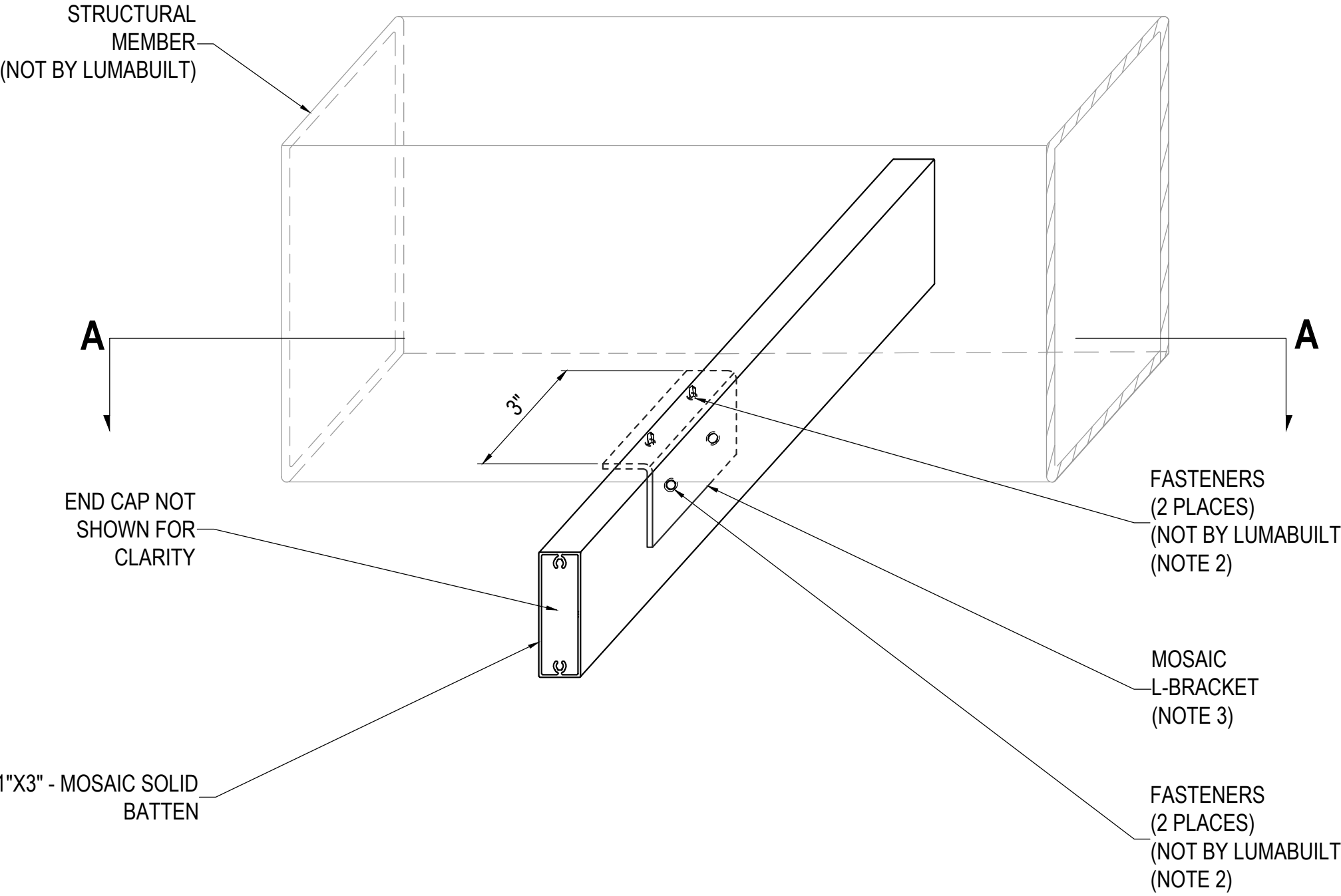


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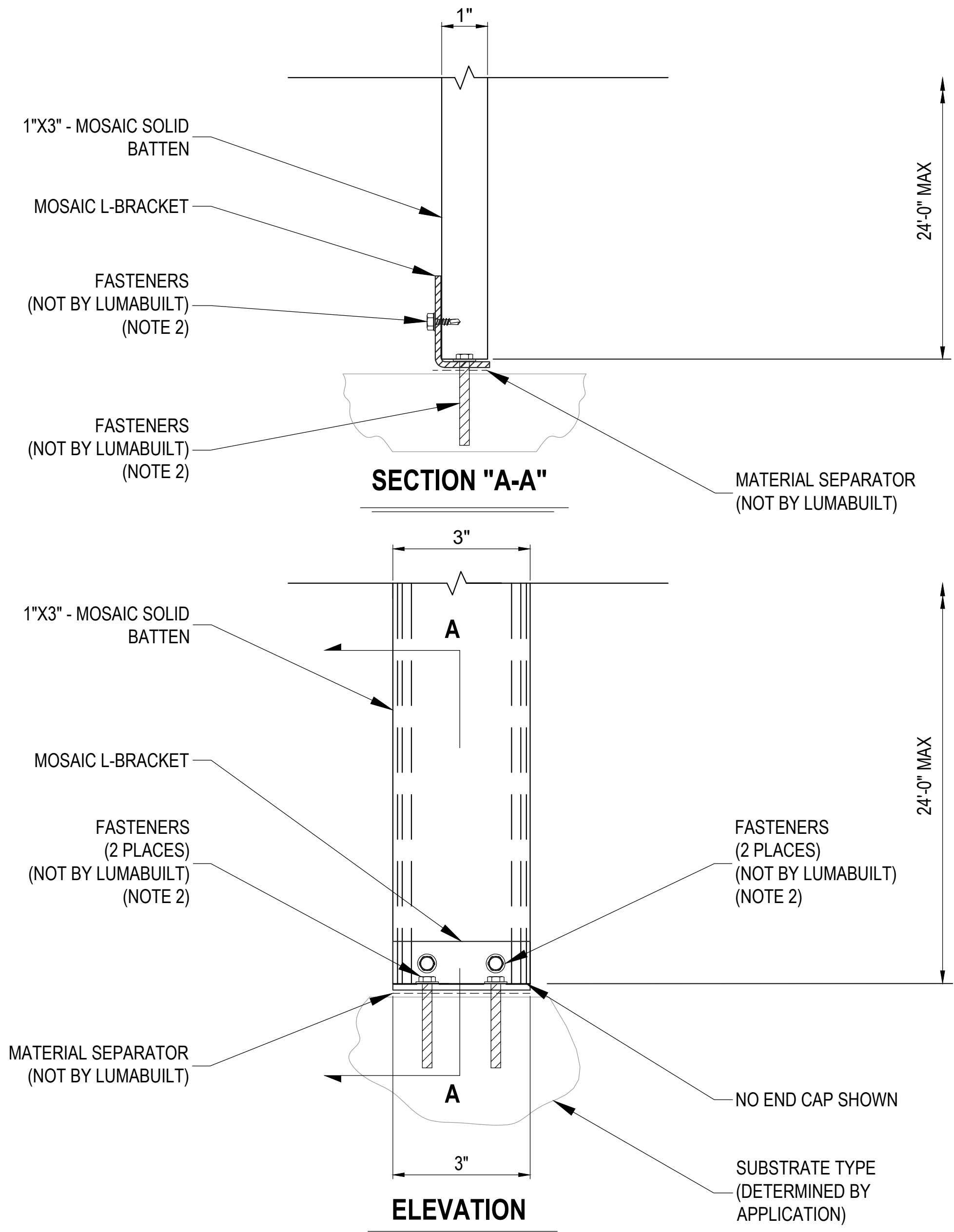


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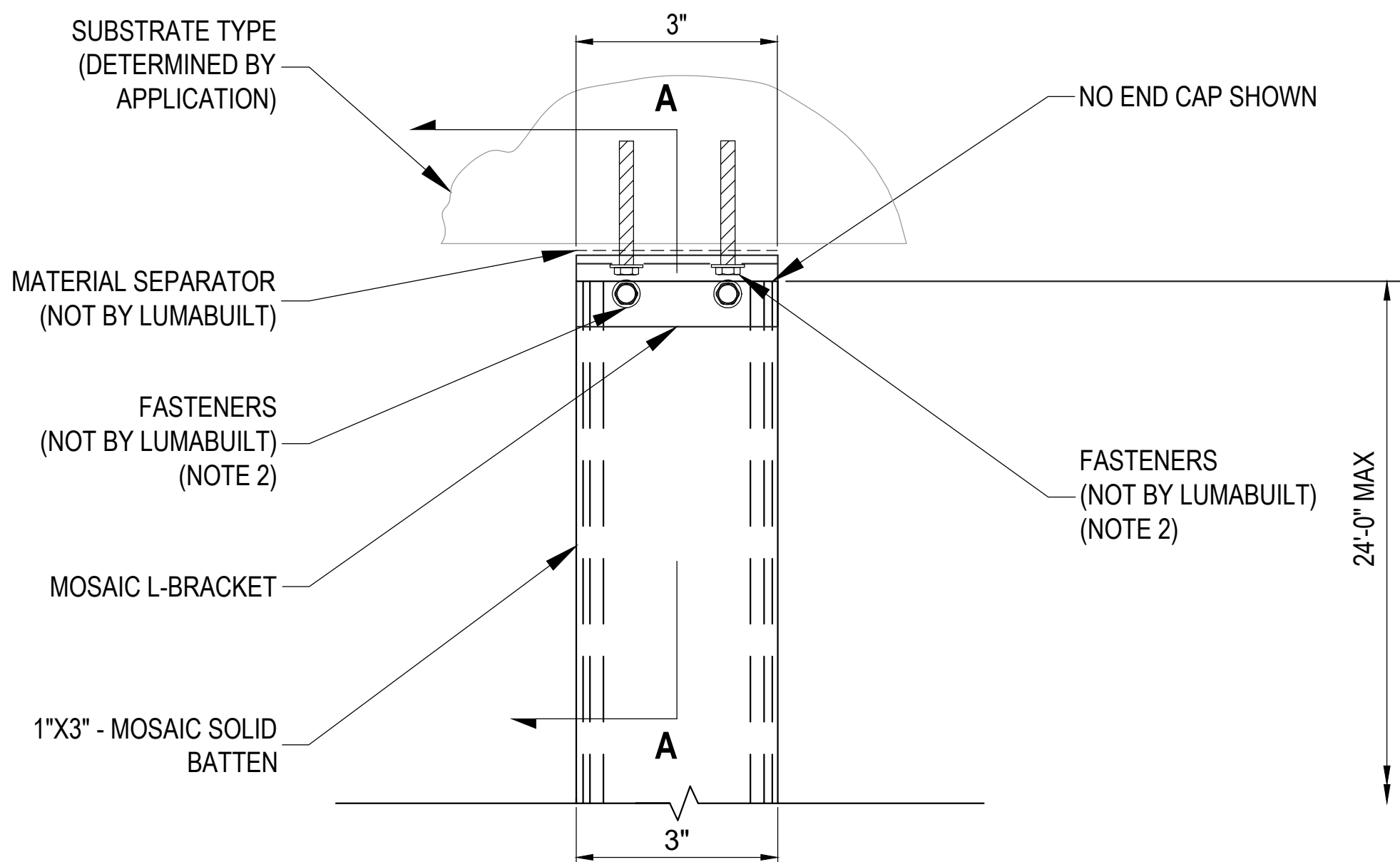
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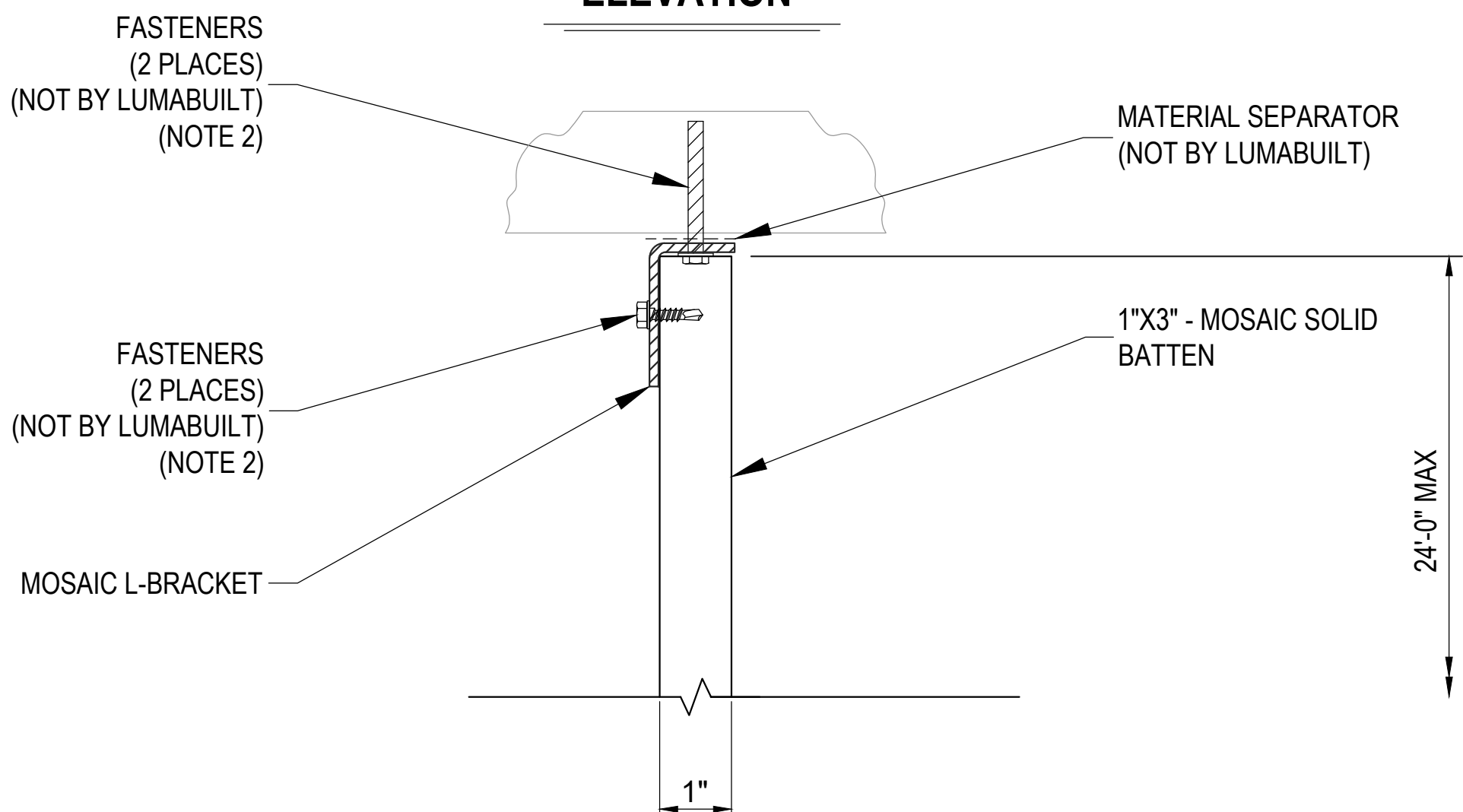


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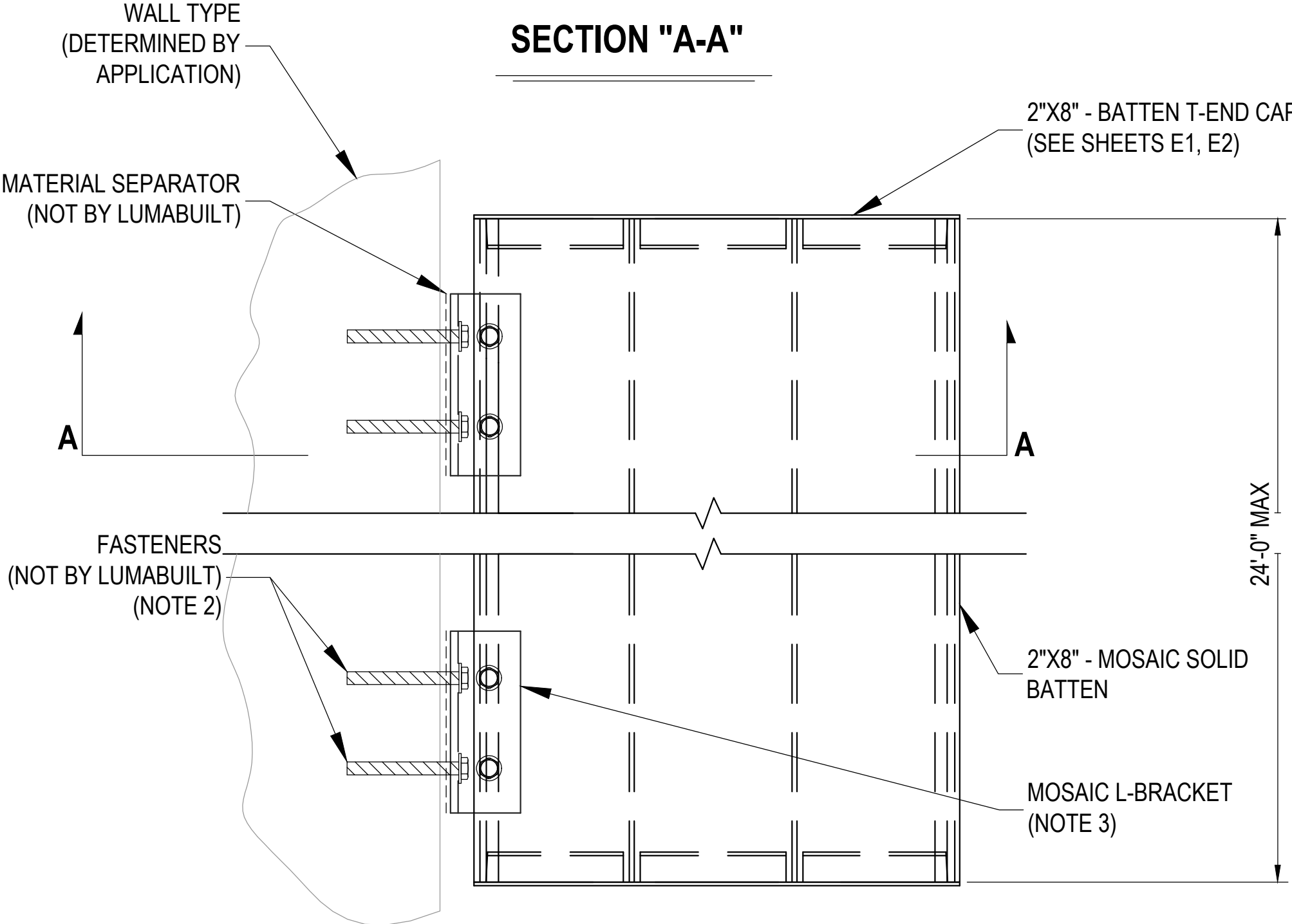
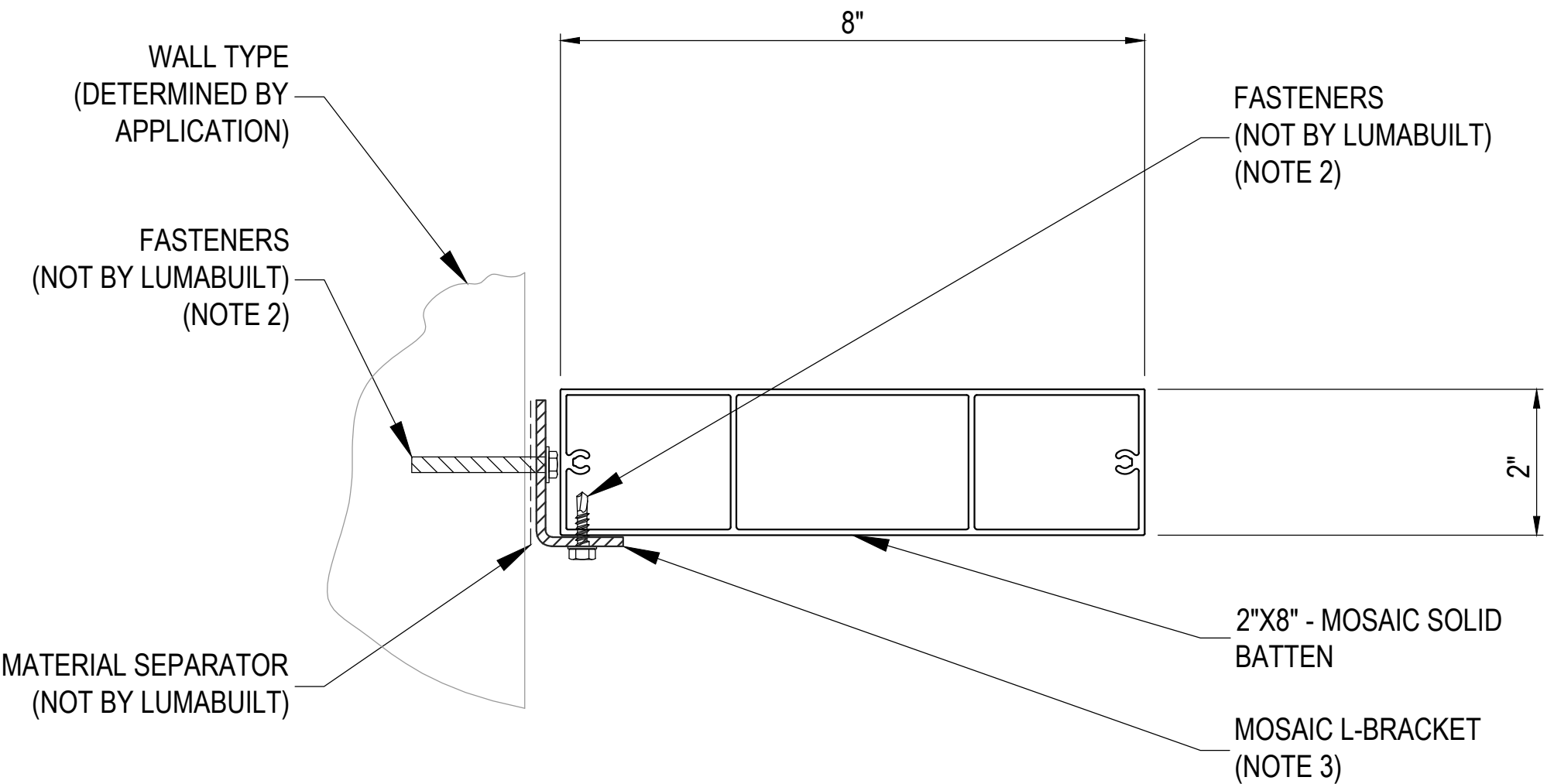
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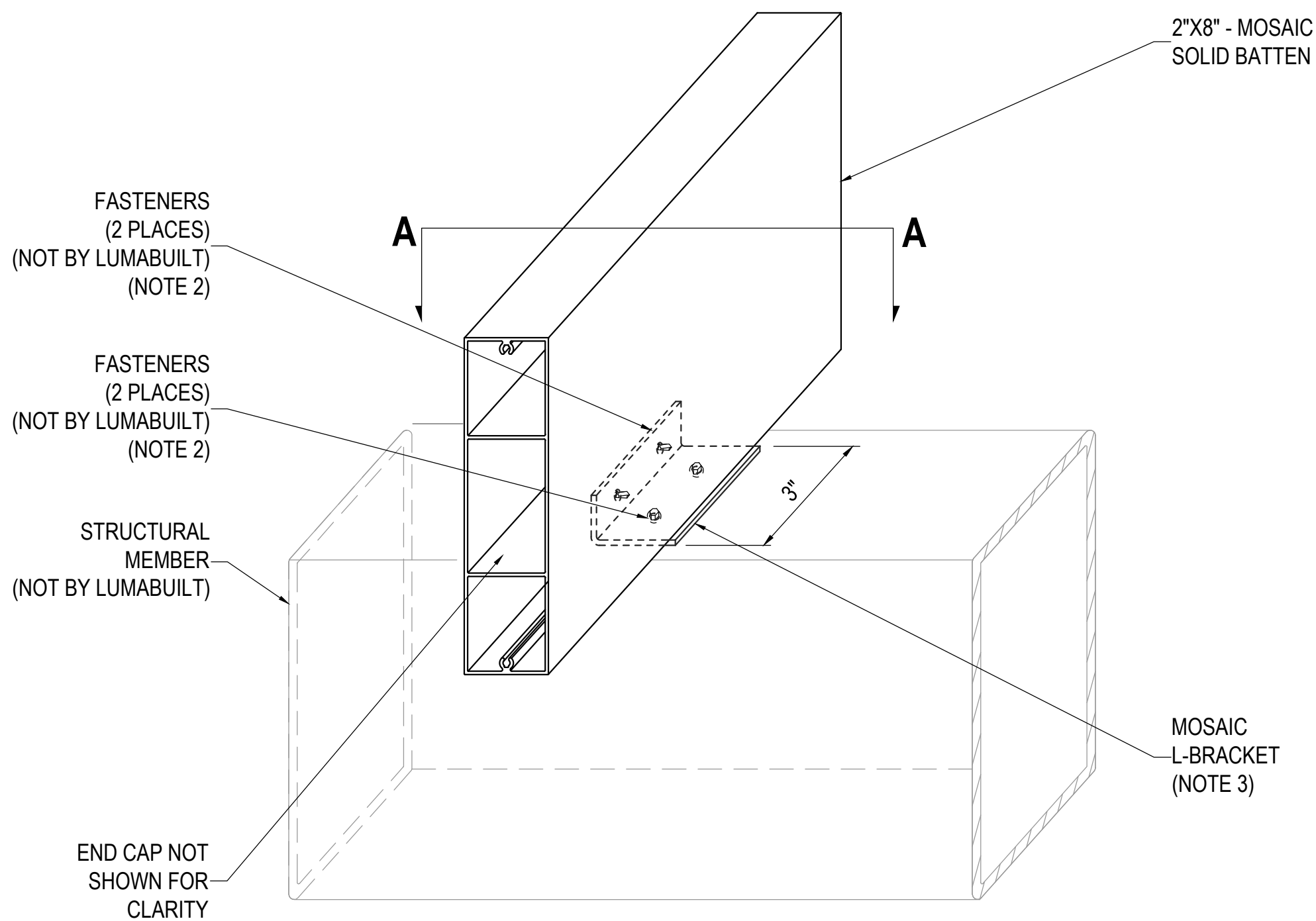
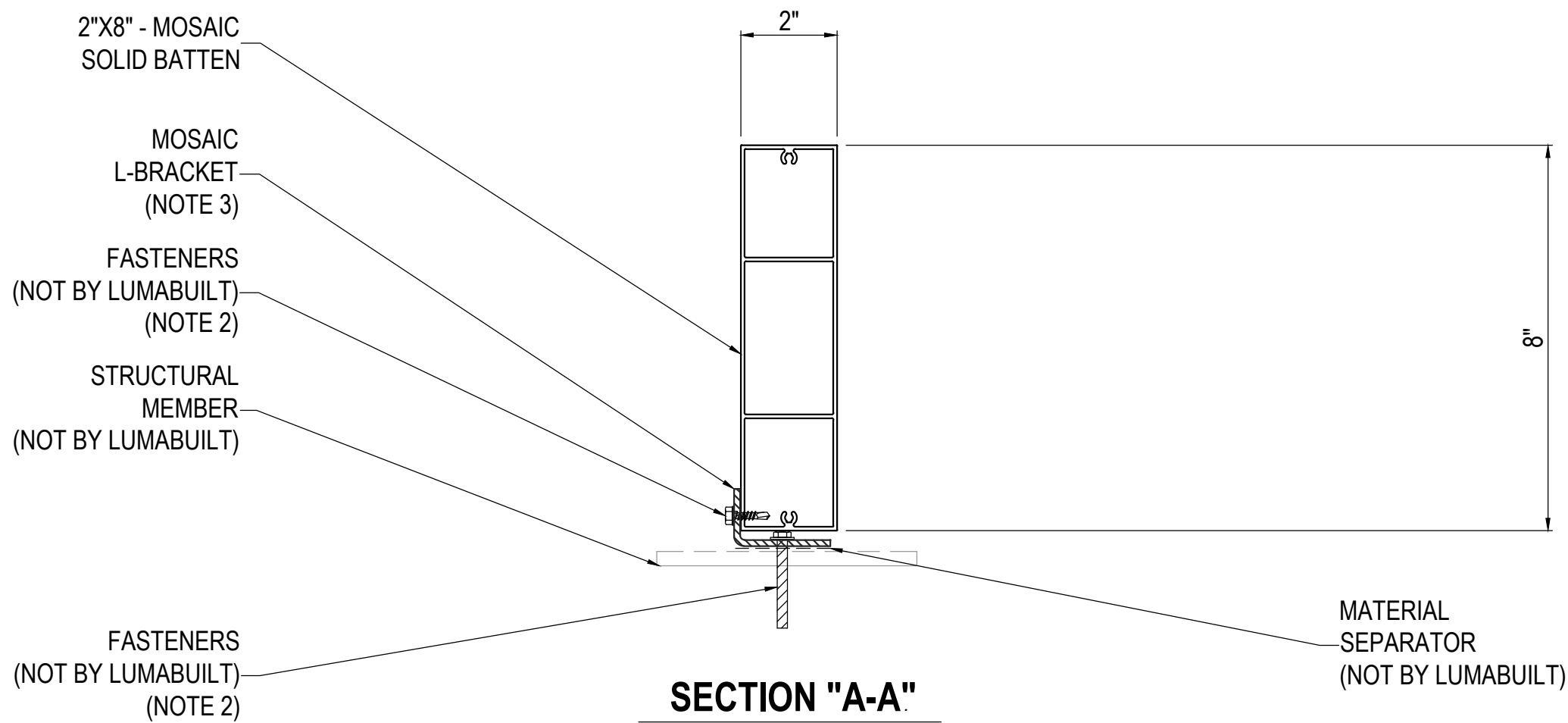
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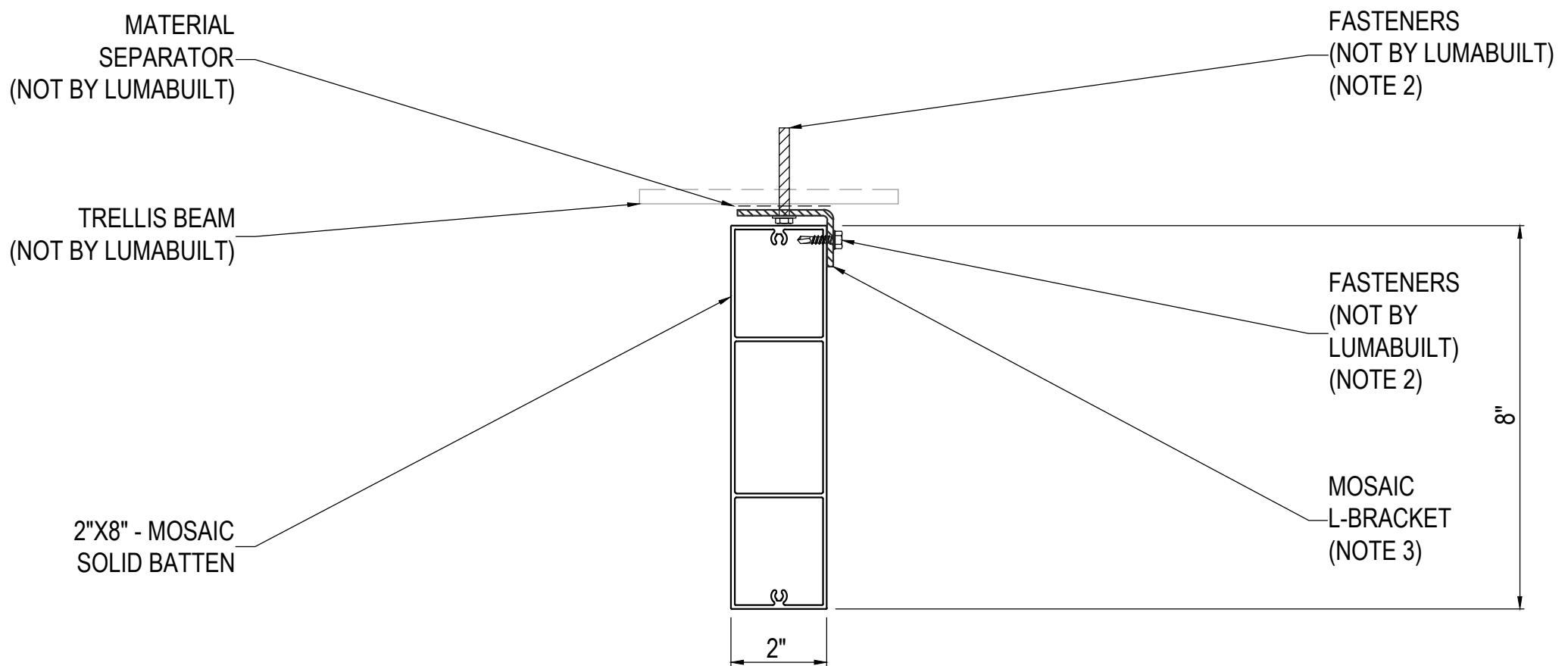
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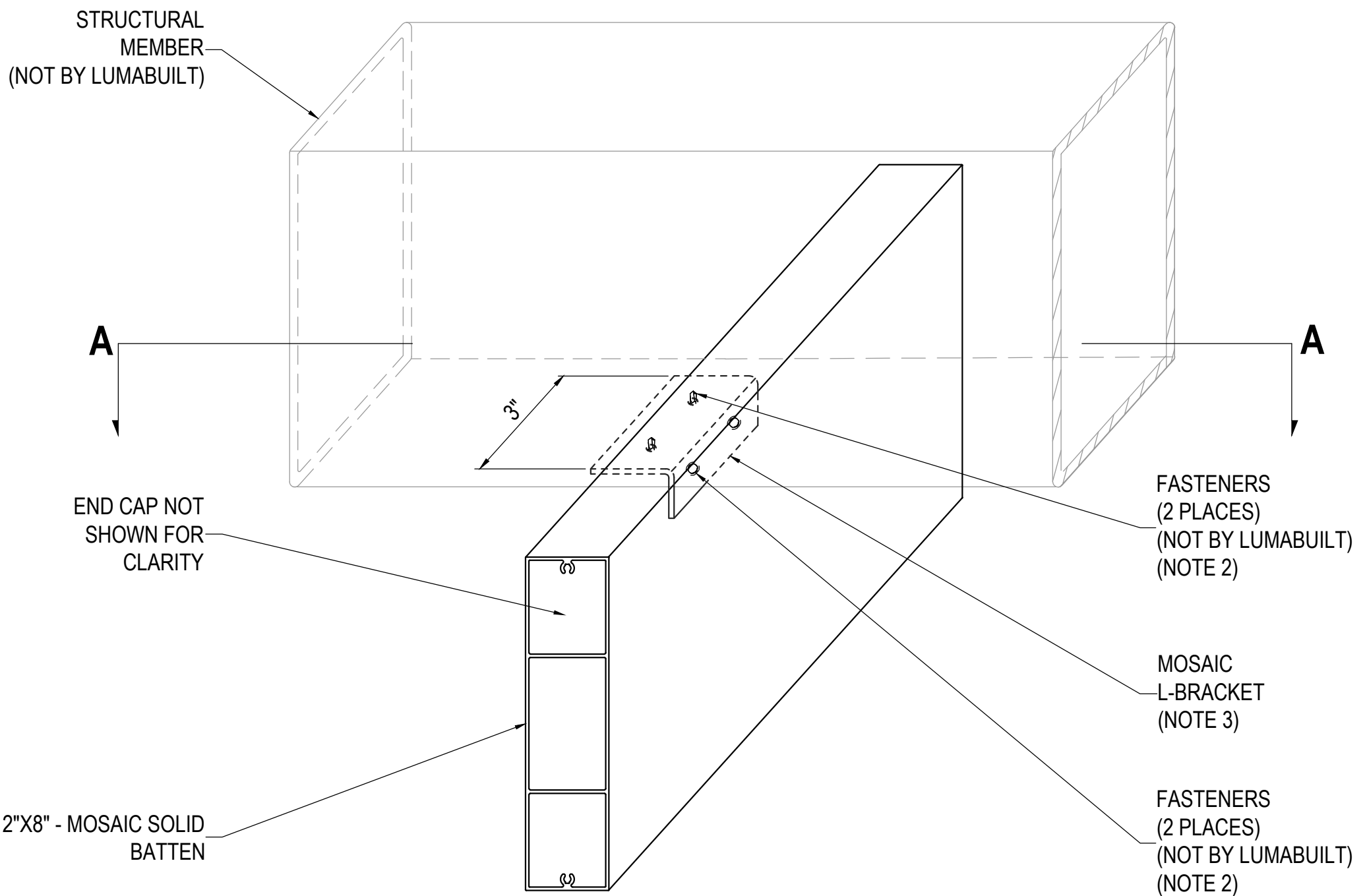


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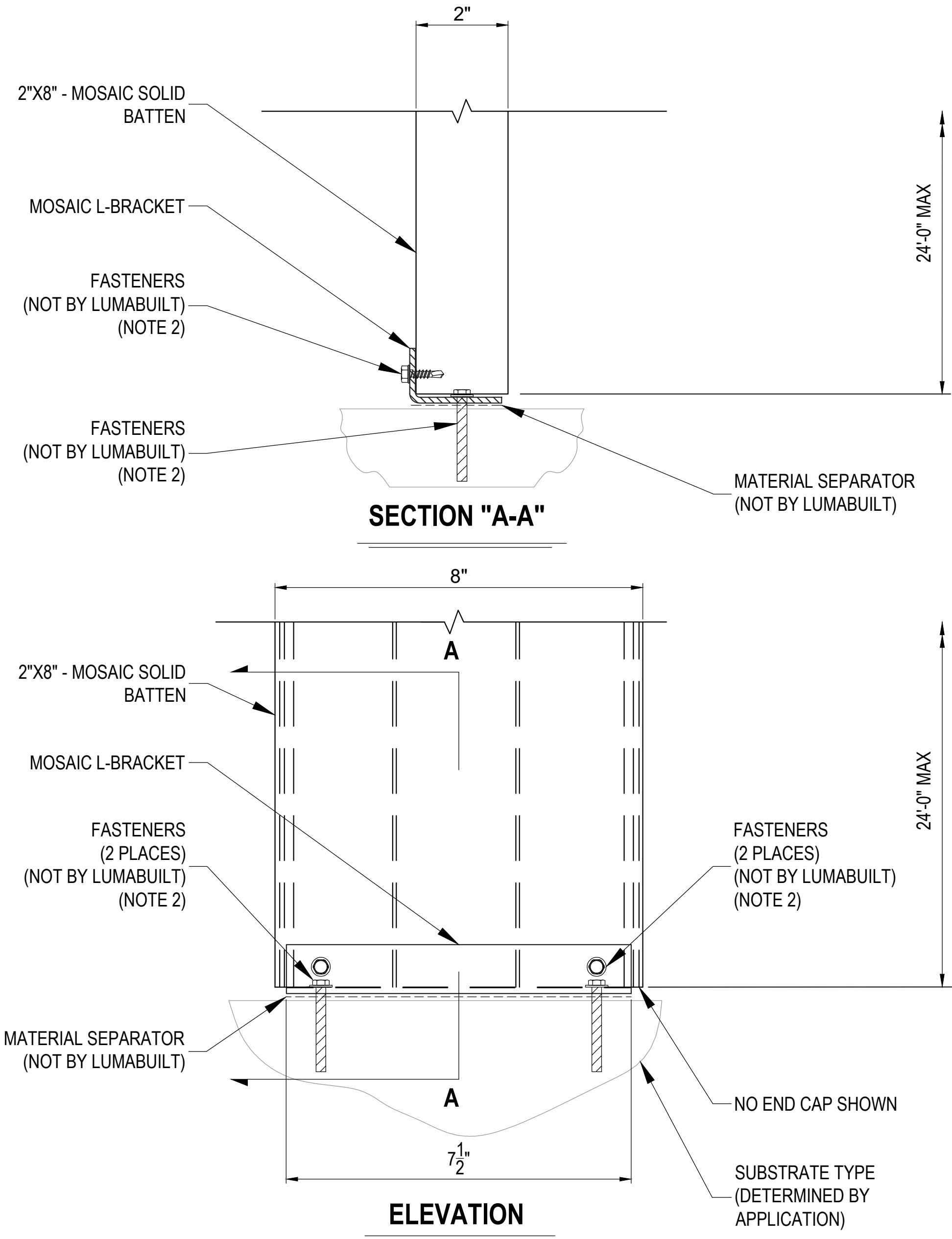


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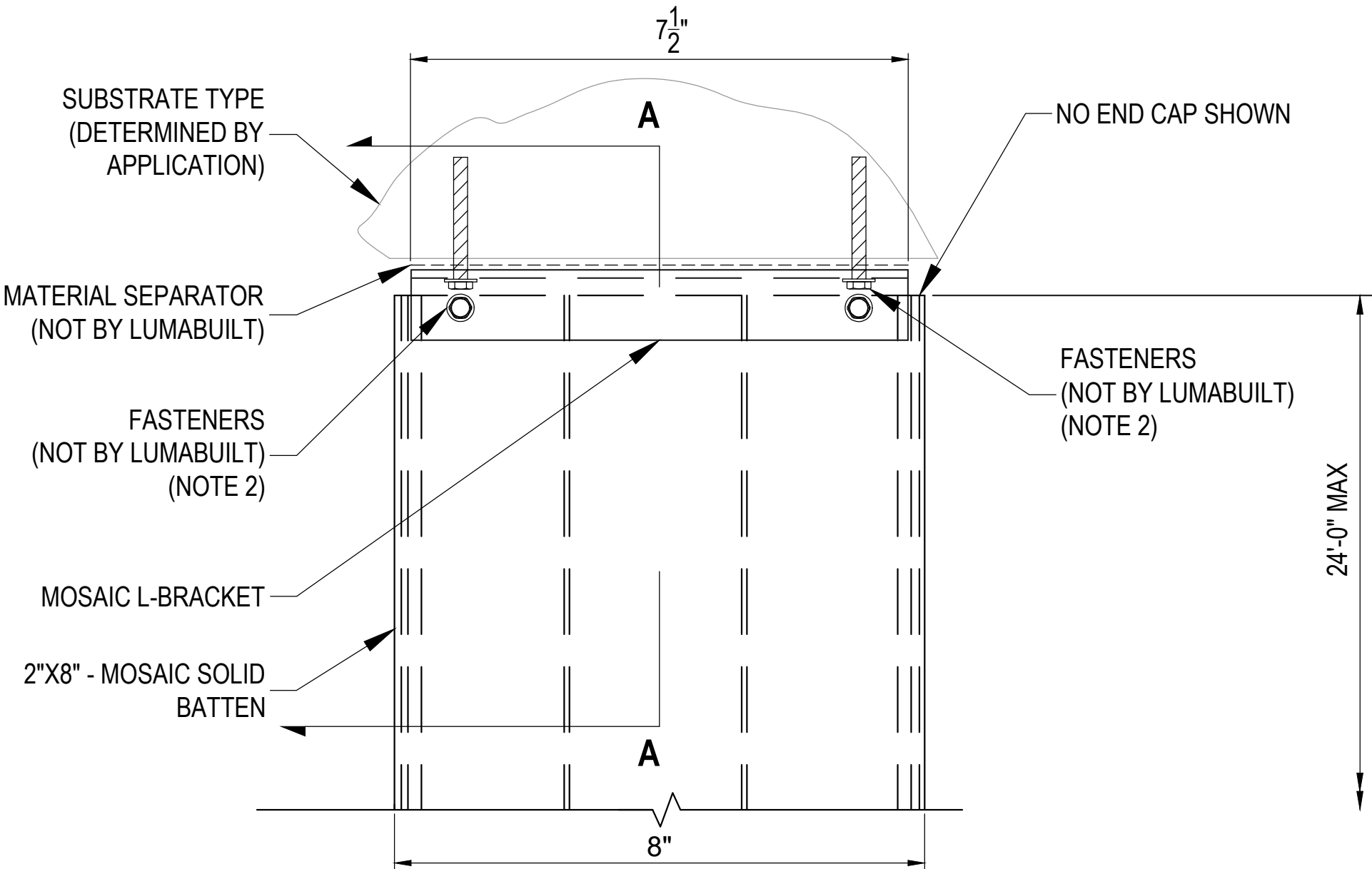


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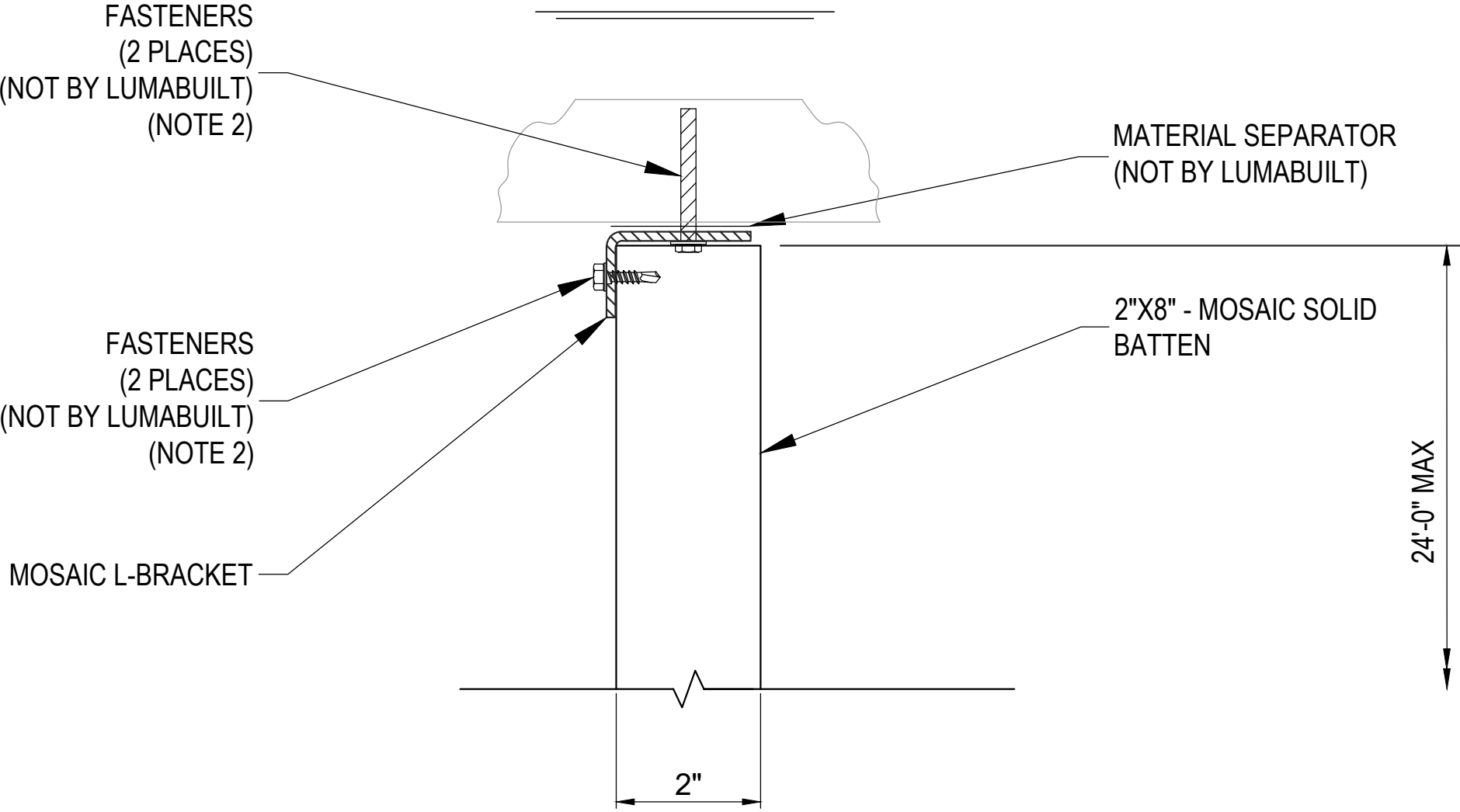
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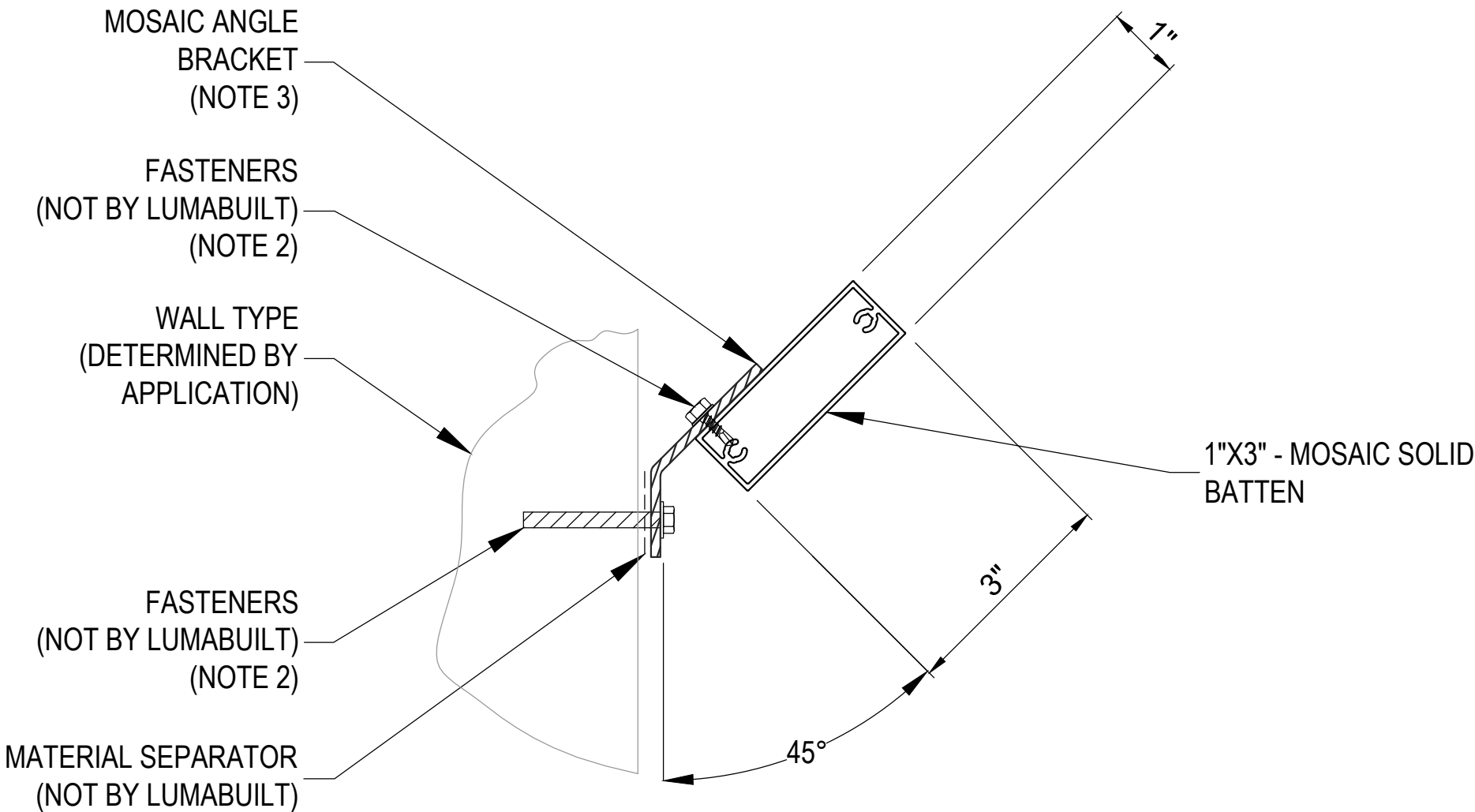
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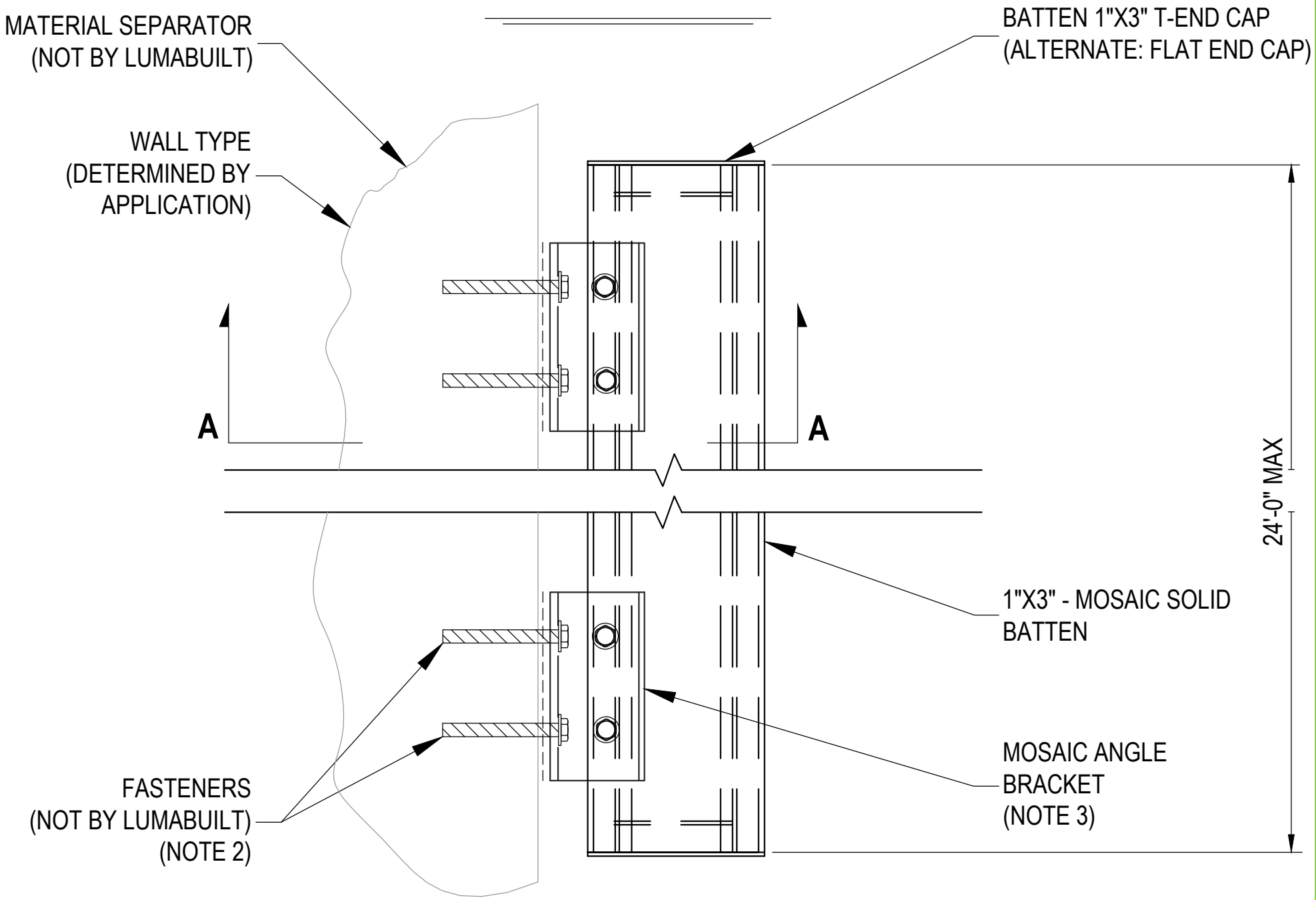
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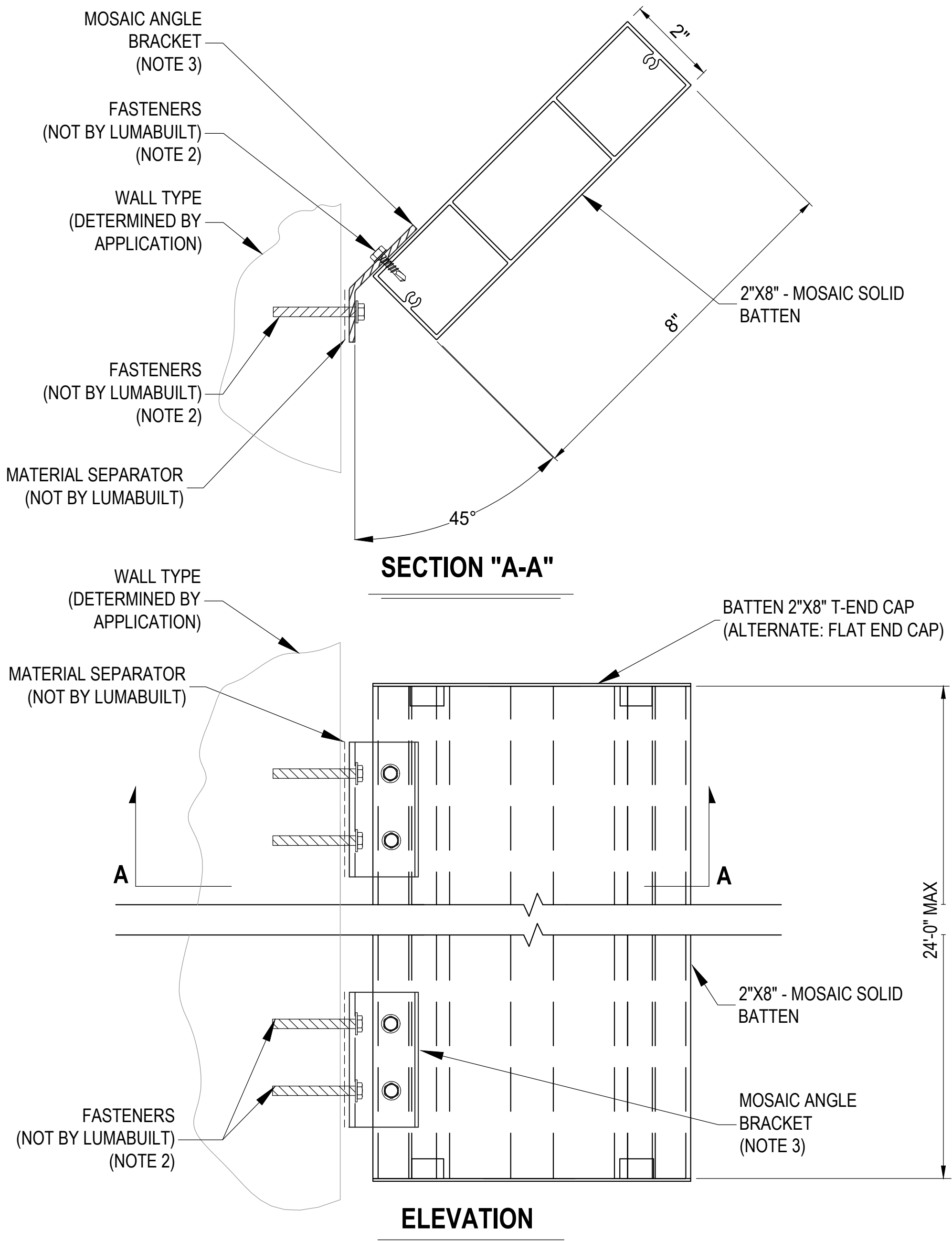


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