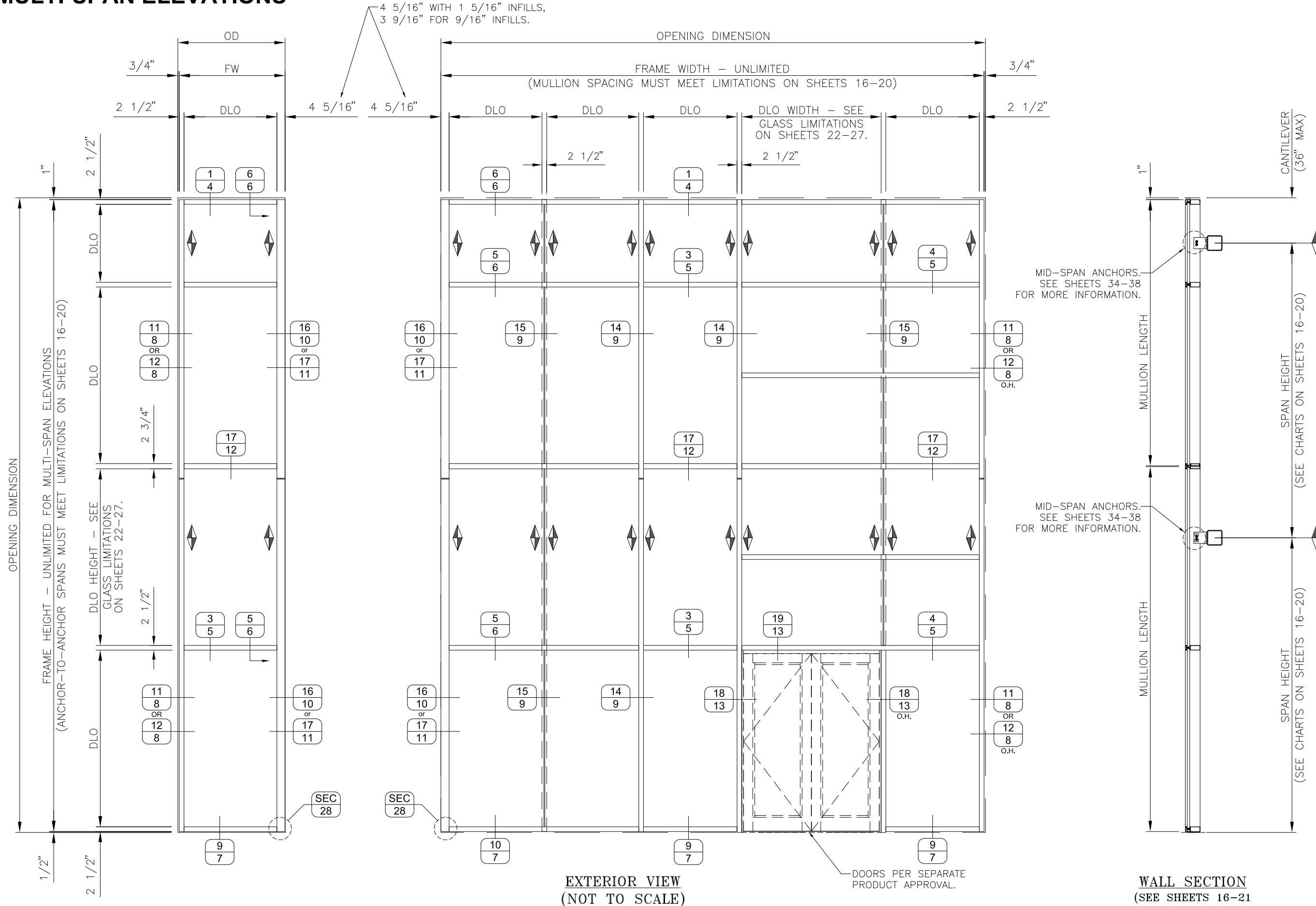


MULTI-SPAN ELEVATIONS



EXTERIOR VIEW
(NOT TO SCALE)

WALL SECTION
(SEE SHEETS 16-21 FOR MORE INFO)

KAWNEER
AN ARCONIC COMPANY



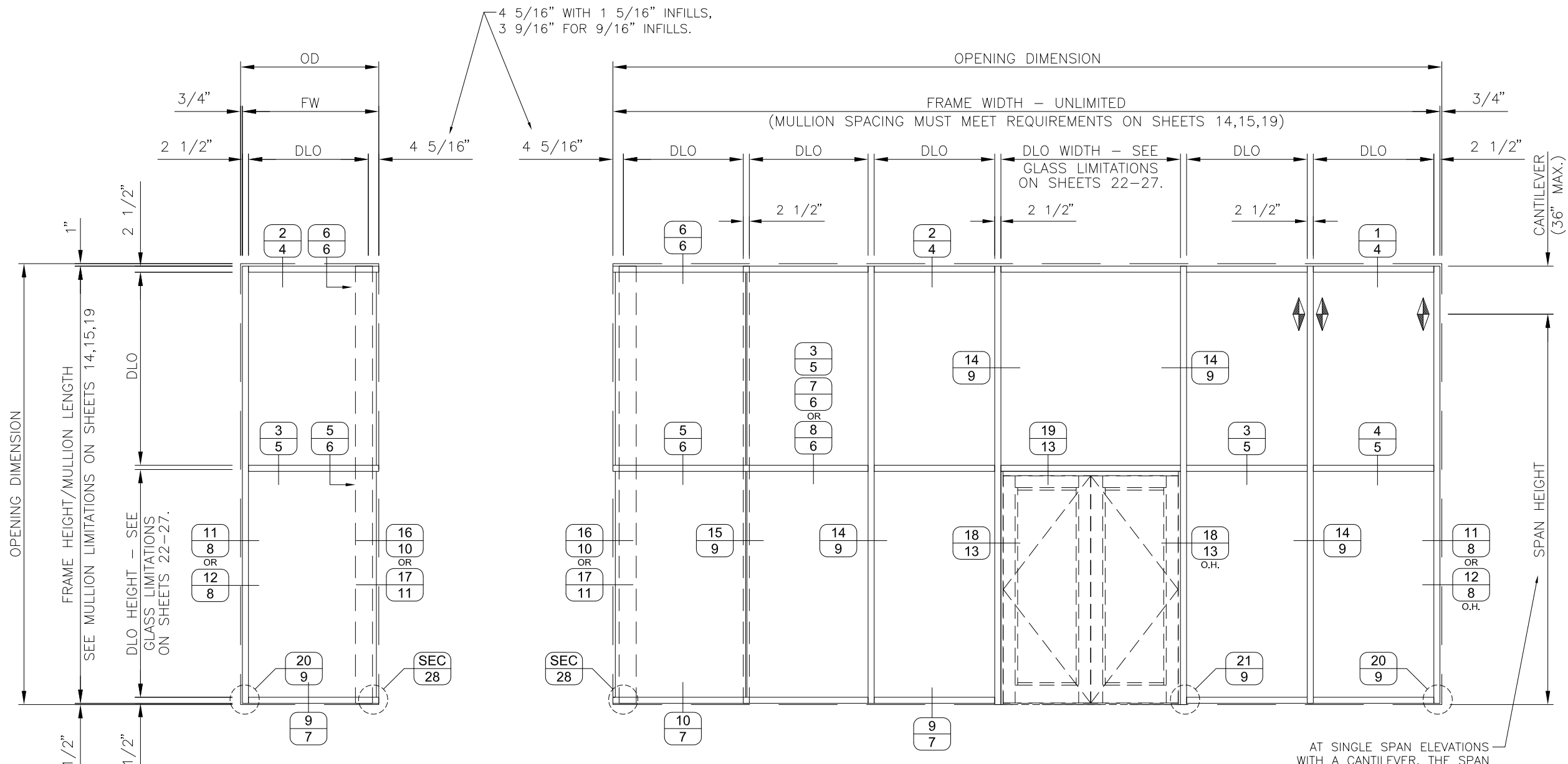
10/27/2021
LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
2
SHEET:
2/42

555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449-5555
WWW.KAWNEER.COM

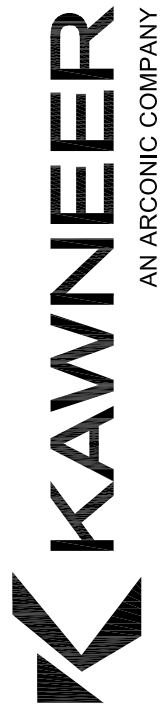
| REV.# | DATE |
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| 07/01/21 | |

SINGLE SPAN ELEVATIONS

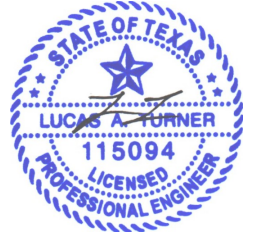


EXTERIOR VIEW
(NOT TO SCALE)

AT SINGLE SPAN ELEVATIONS WITH A CANTILEVER, THE SPAN HEIGHT IS LIMITED TO THE MULLION HEIGHTS SHOWN IN THE SINGLE SPAN CHARTS ON SHEETS 14, 15, & 19. THE CANTILEVER IS LIMITED TO 36" MAX.



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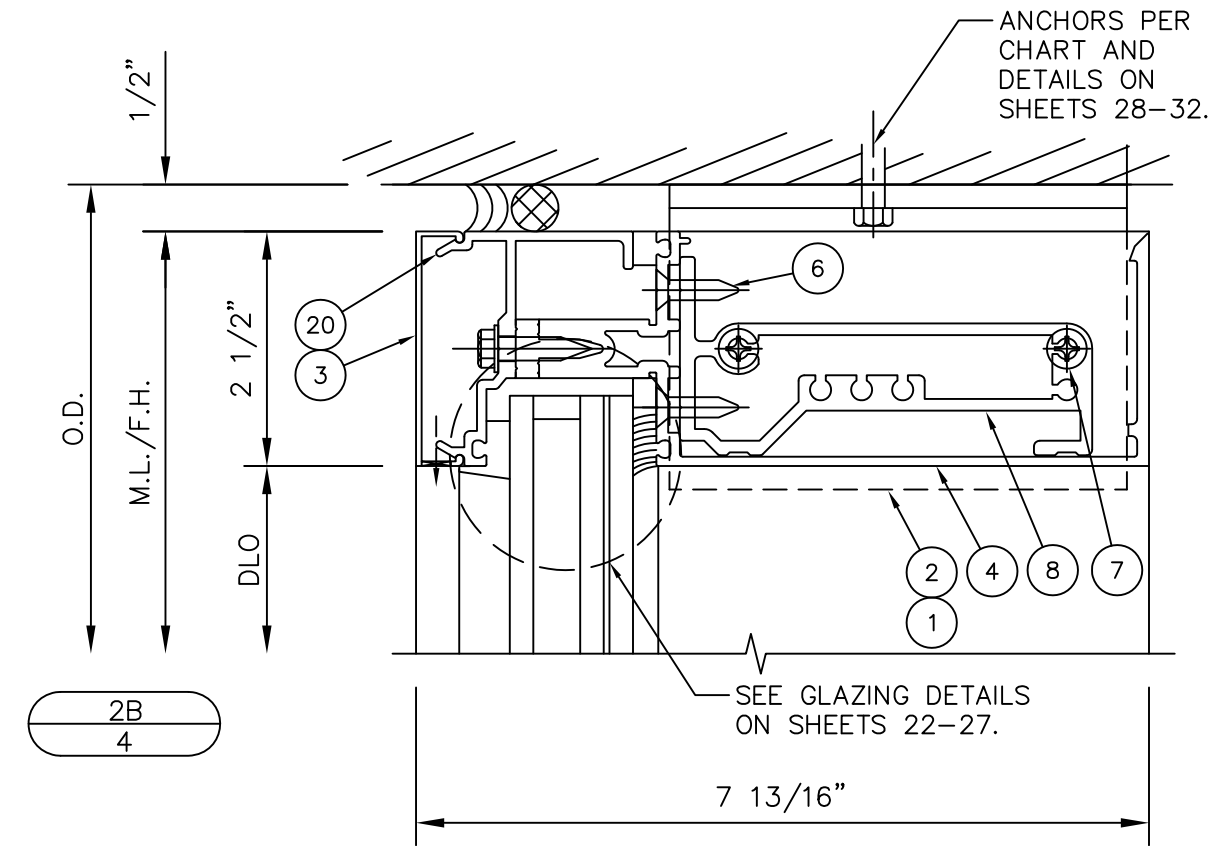
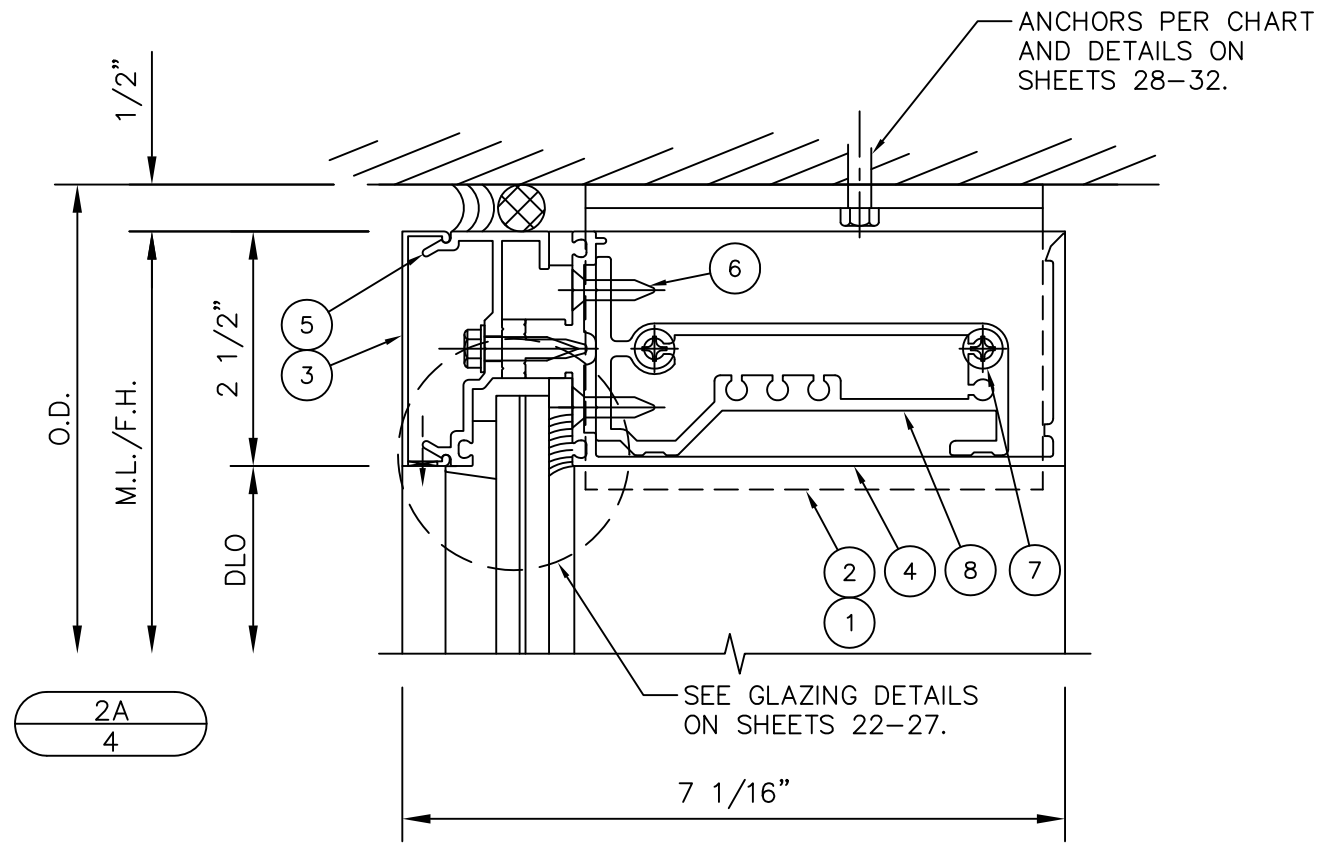
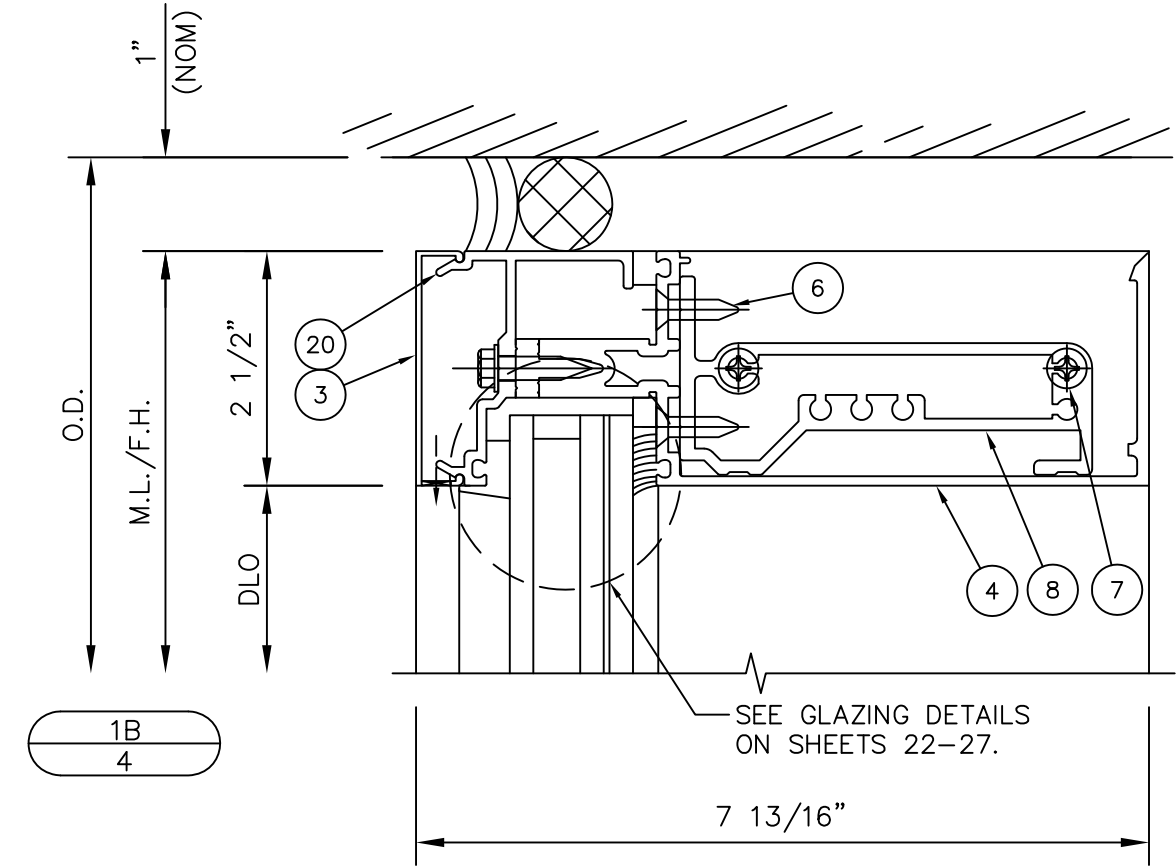
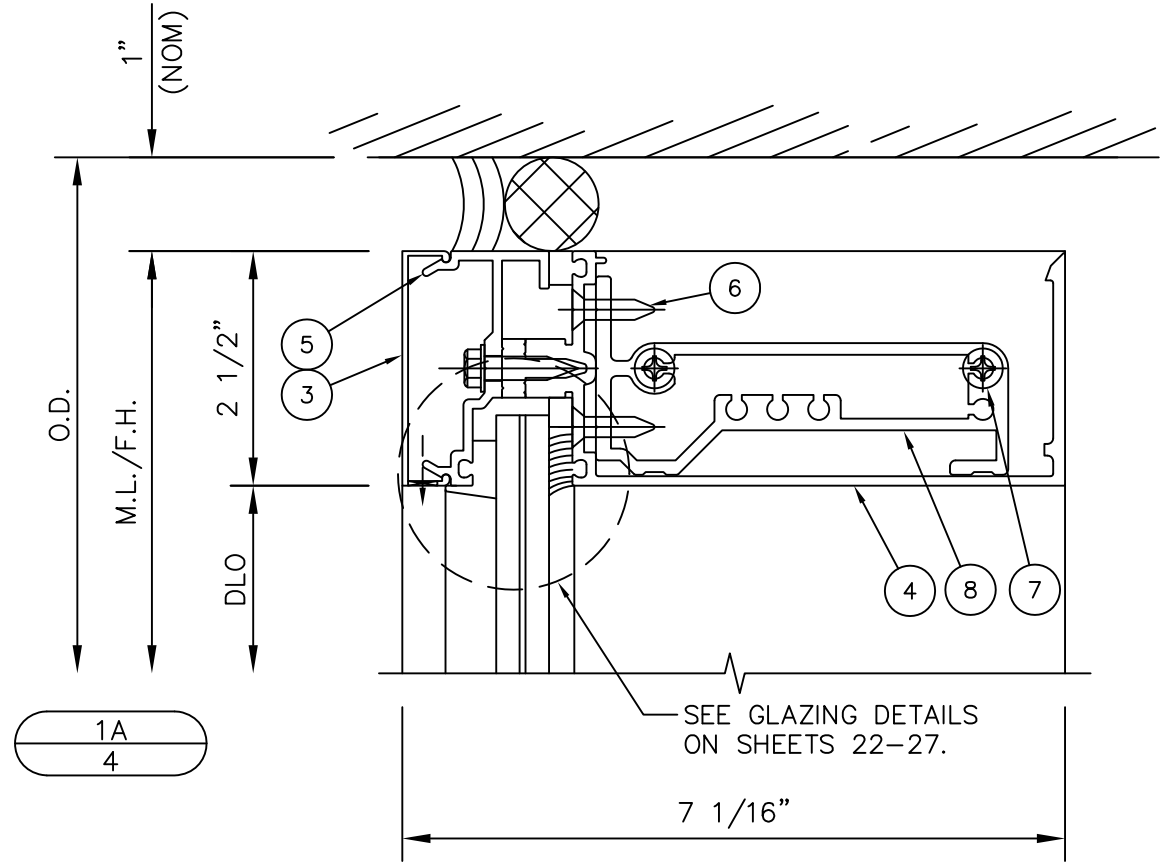


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TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

| | |
|----------|------------------------|
| PRODUCT: | 1600 WALL SYSTEM 1 & 2 |
| DWG: | 1600-IR-TDI |
| SECTION: | 2 |
| SHEET: | 3/42 |

| REV.# | DATE |
|-------|----------|
| 1 | 07/01/21 |
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HEAD DETAILS



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NORCROSS, GA 30092

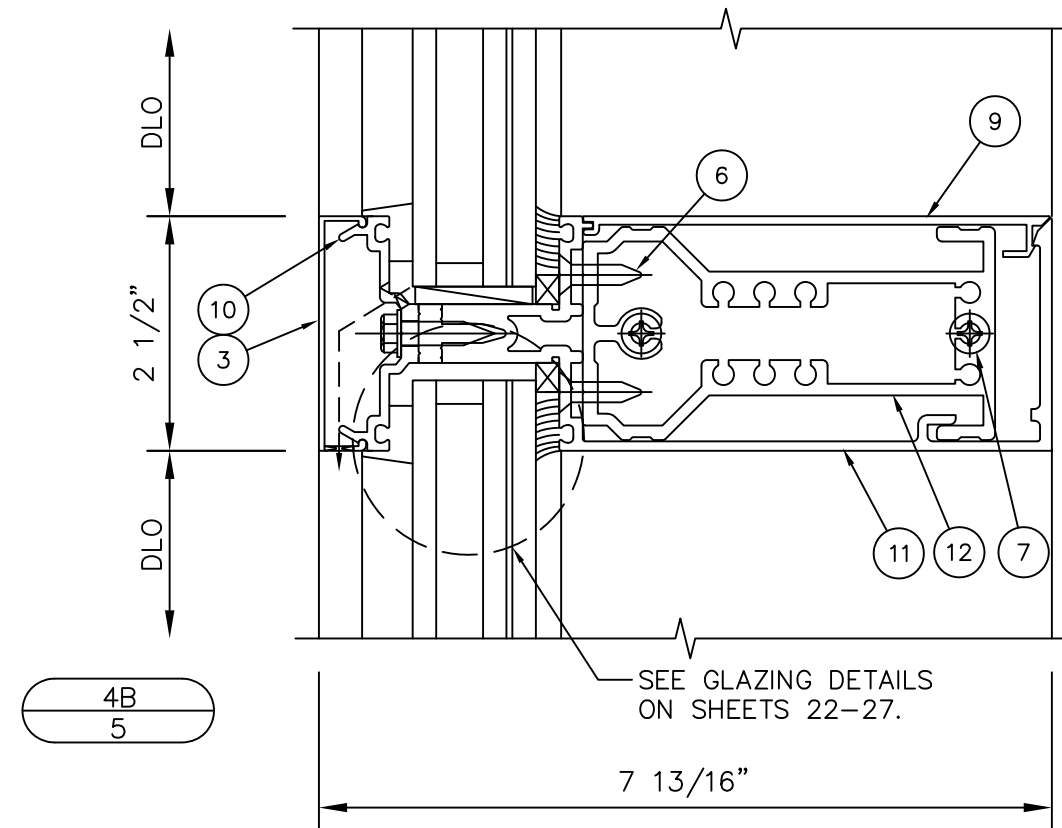
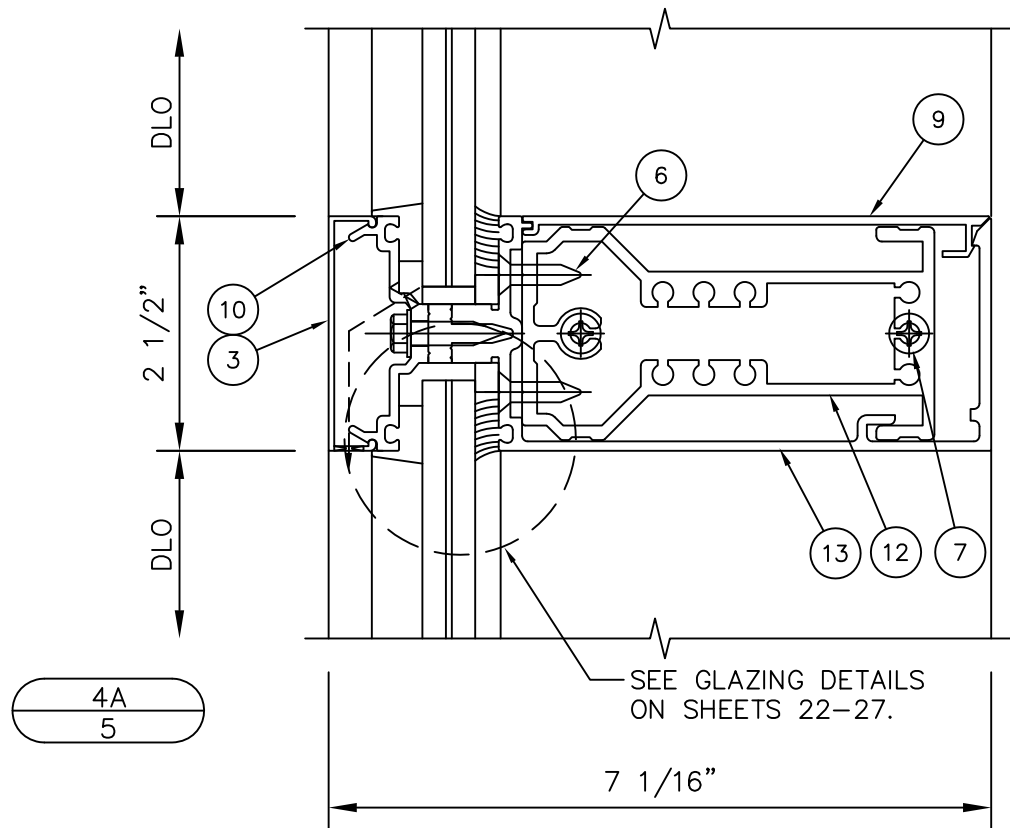
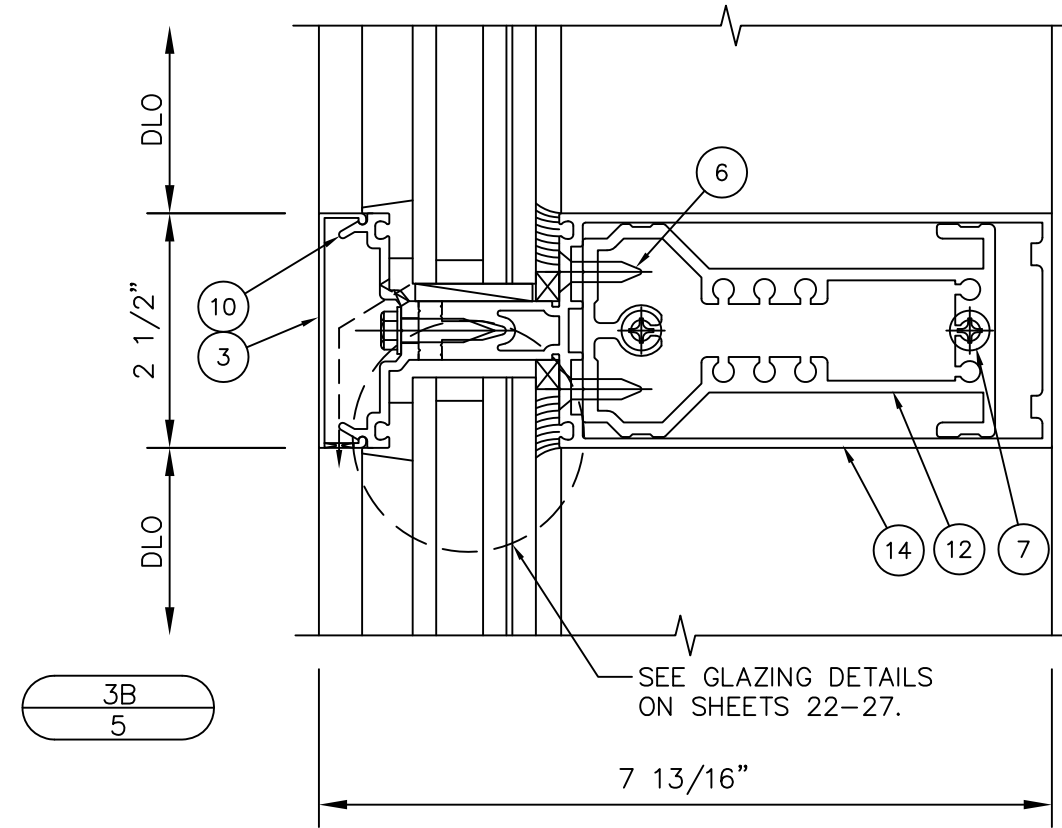
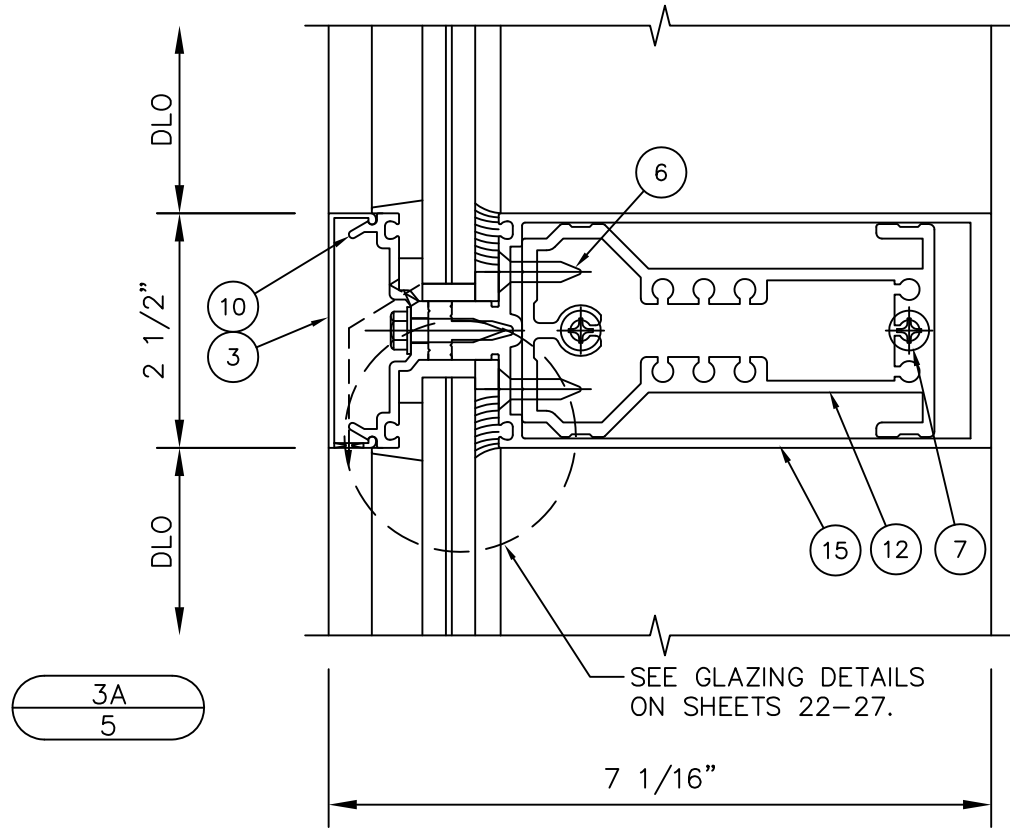


10/27/2021
LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
04/42

| REV.# | DATE |
|-------------------|------|
| 07/01/21 | |
| 1ST SUBMITTAL | |
| PRINTS ISSUED FOR | |

HORIZONTAL DETAILS



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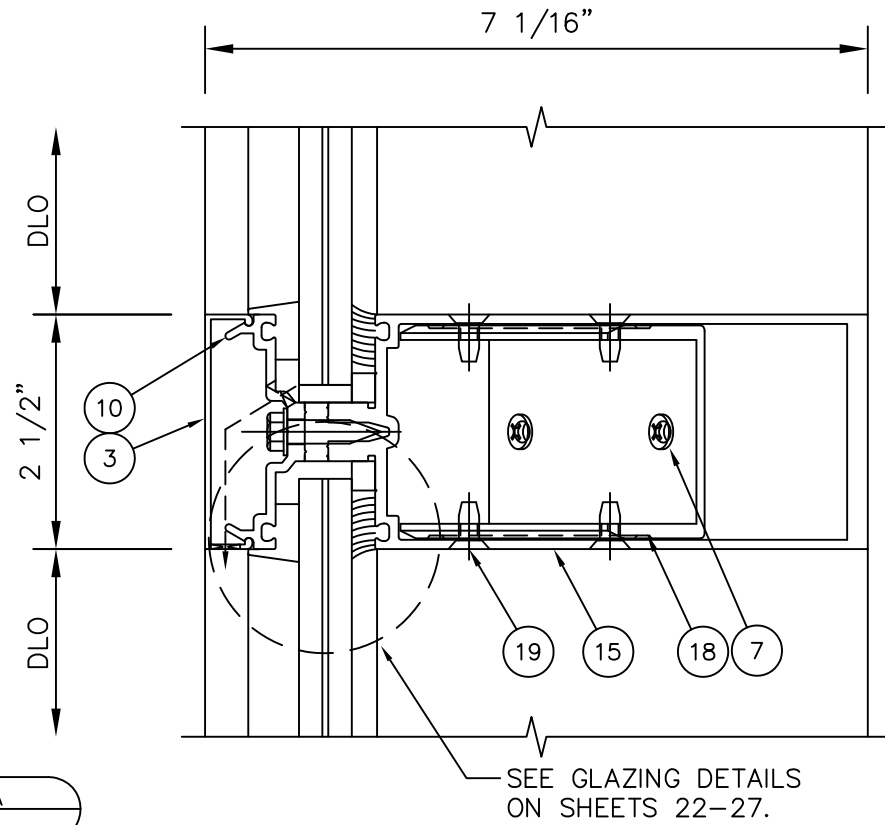


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LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

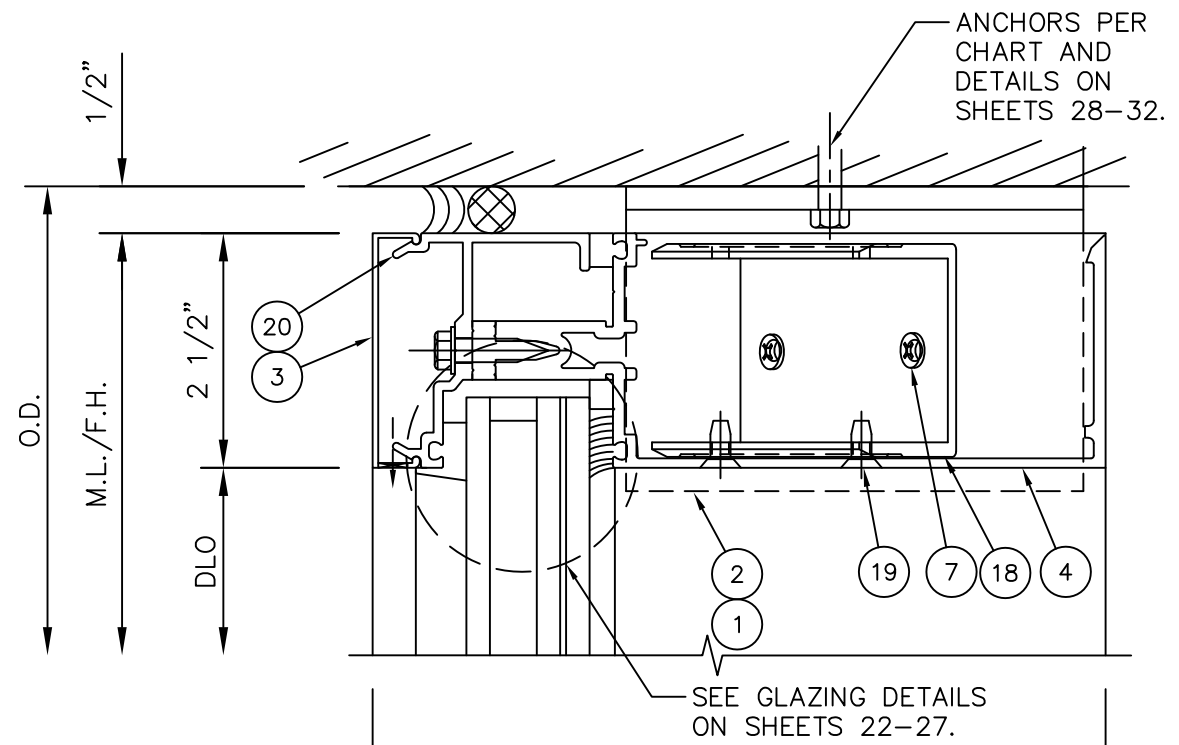
PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
05/42

| REV.# | DATE |
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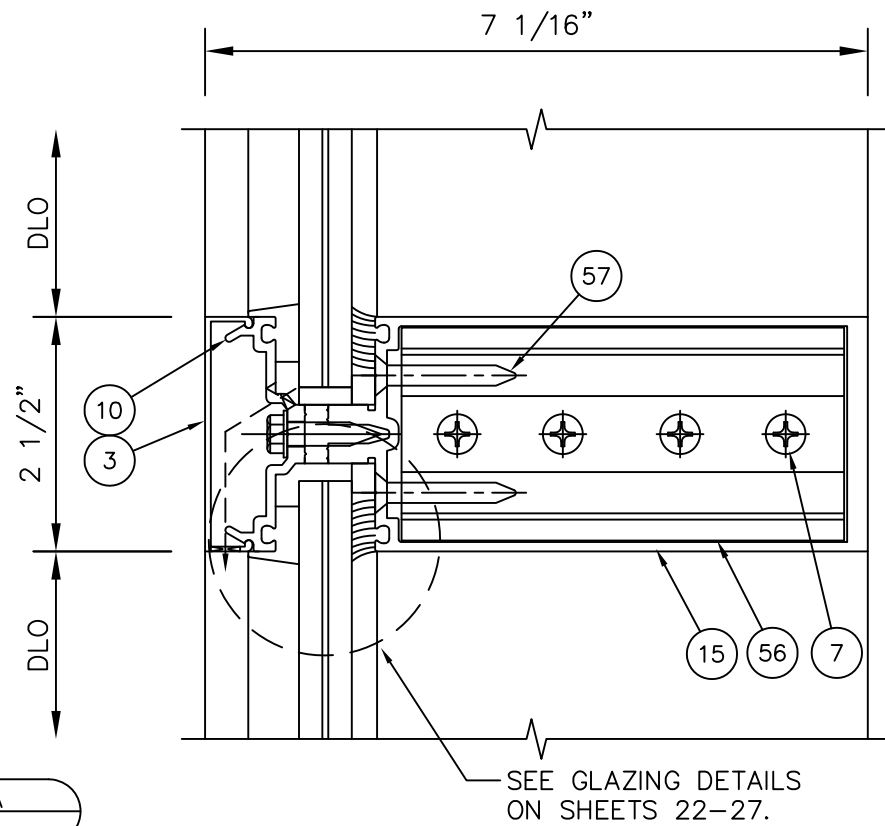
HORIZONTAL DETAILS



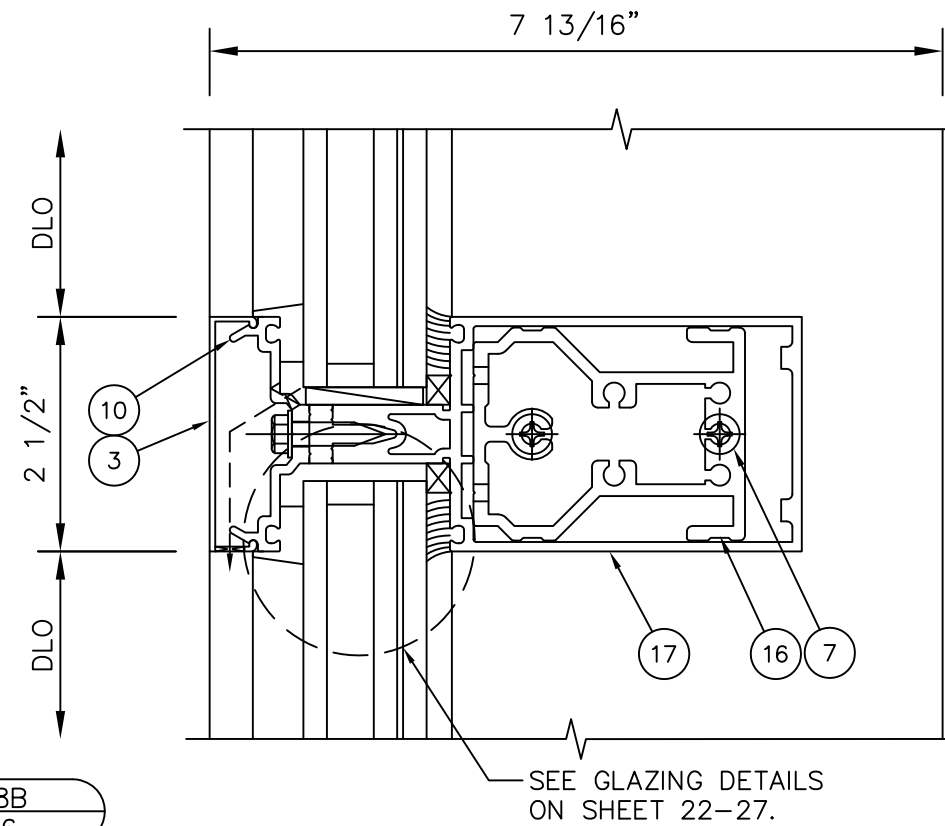
5A
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(6B IS SIMILAR)



6B
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(6A IS SIMILAR)



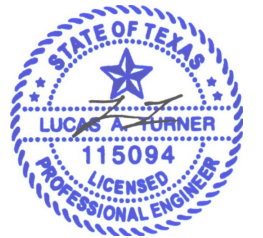
7A
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(7B IS SIMILAR)



8B
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(8A IS SIMILAR)

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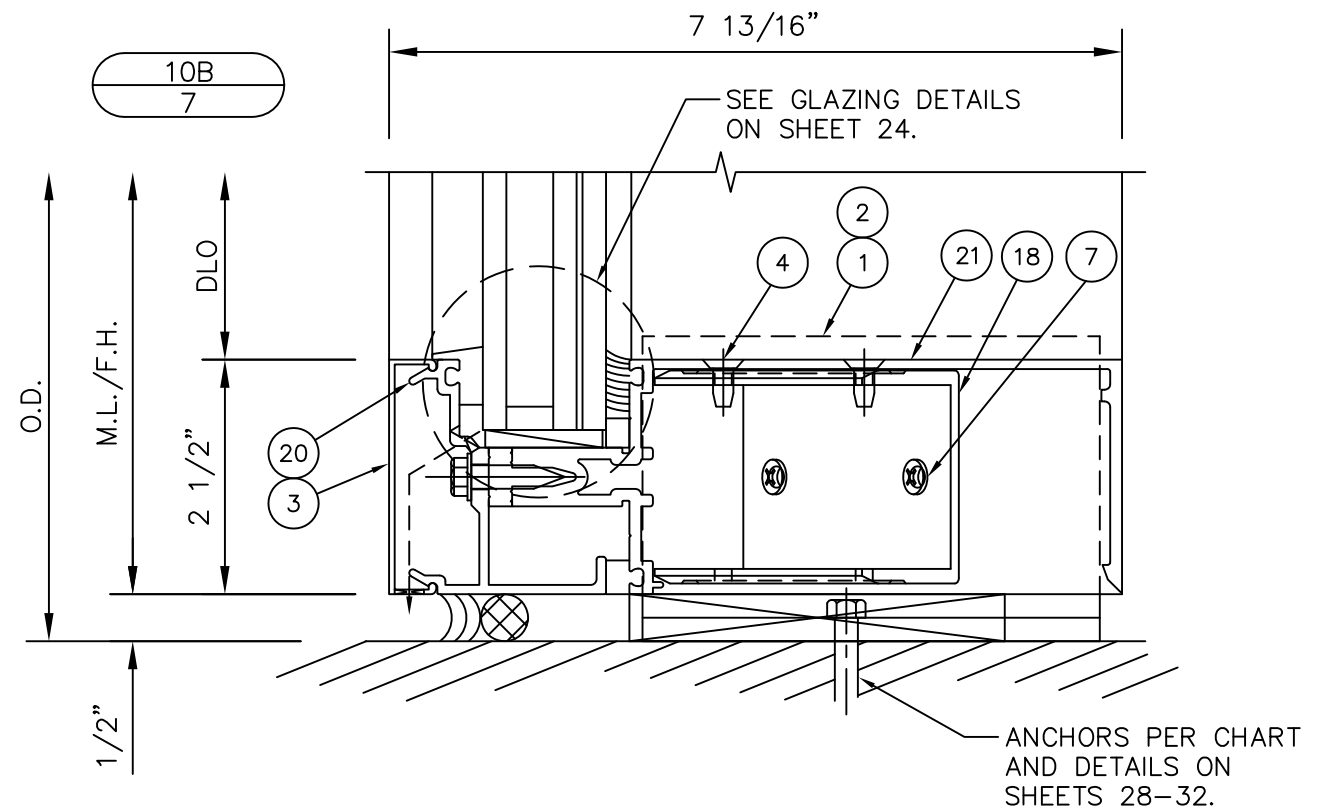
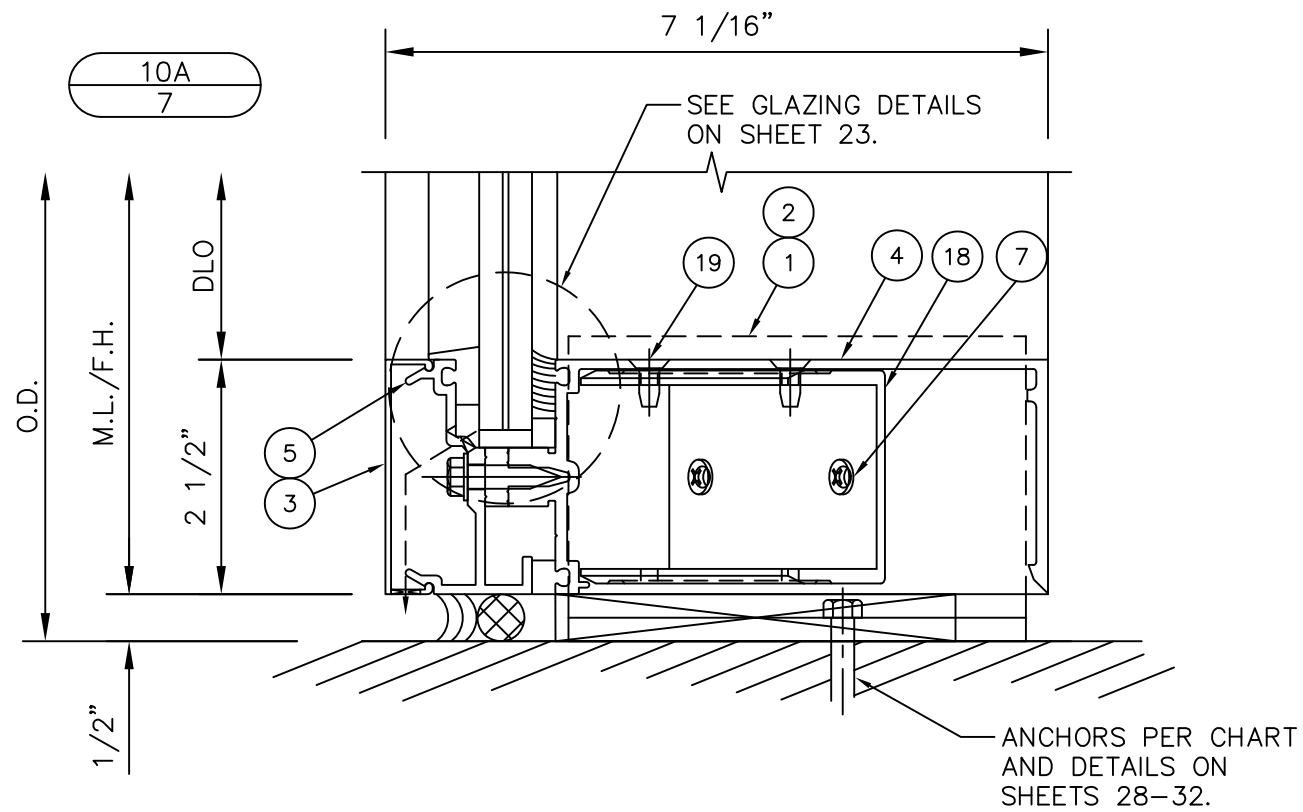
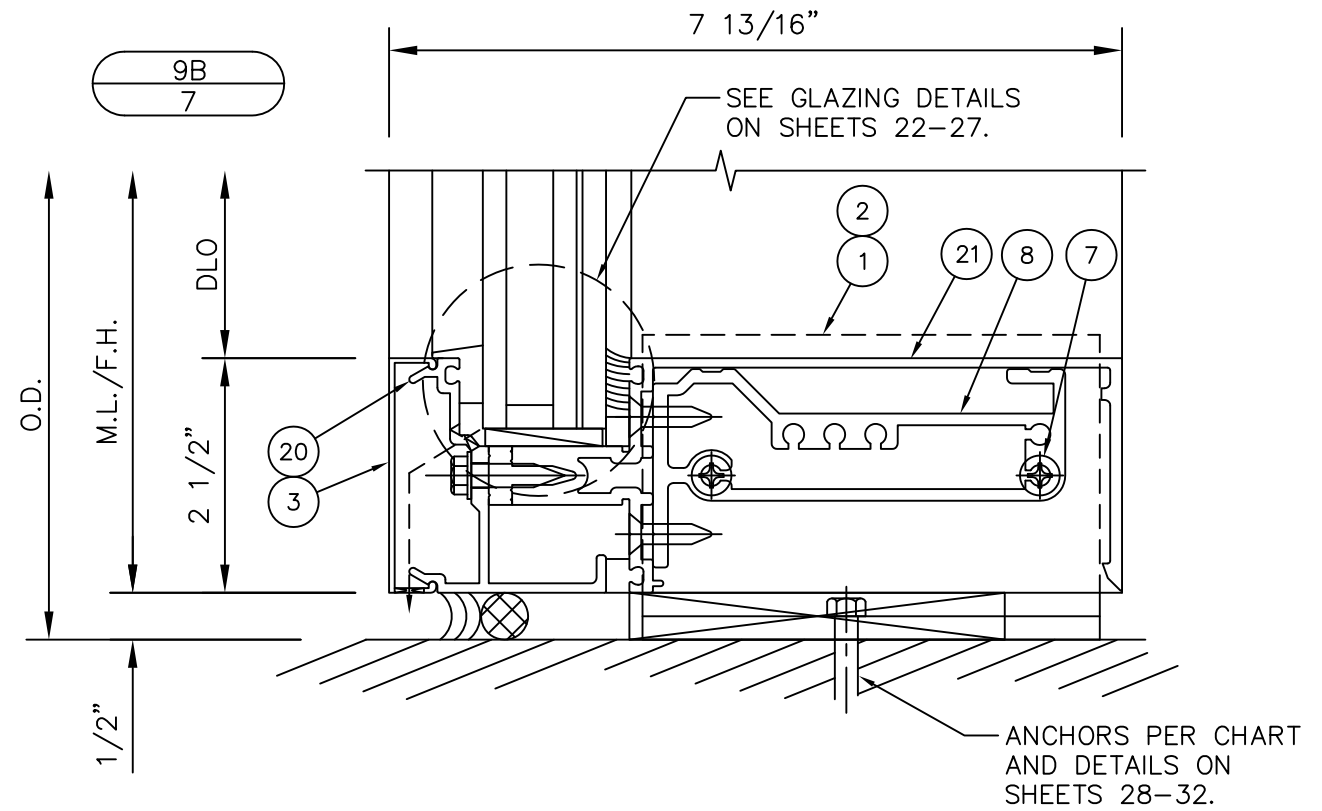
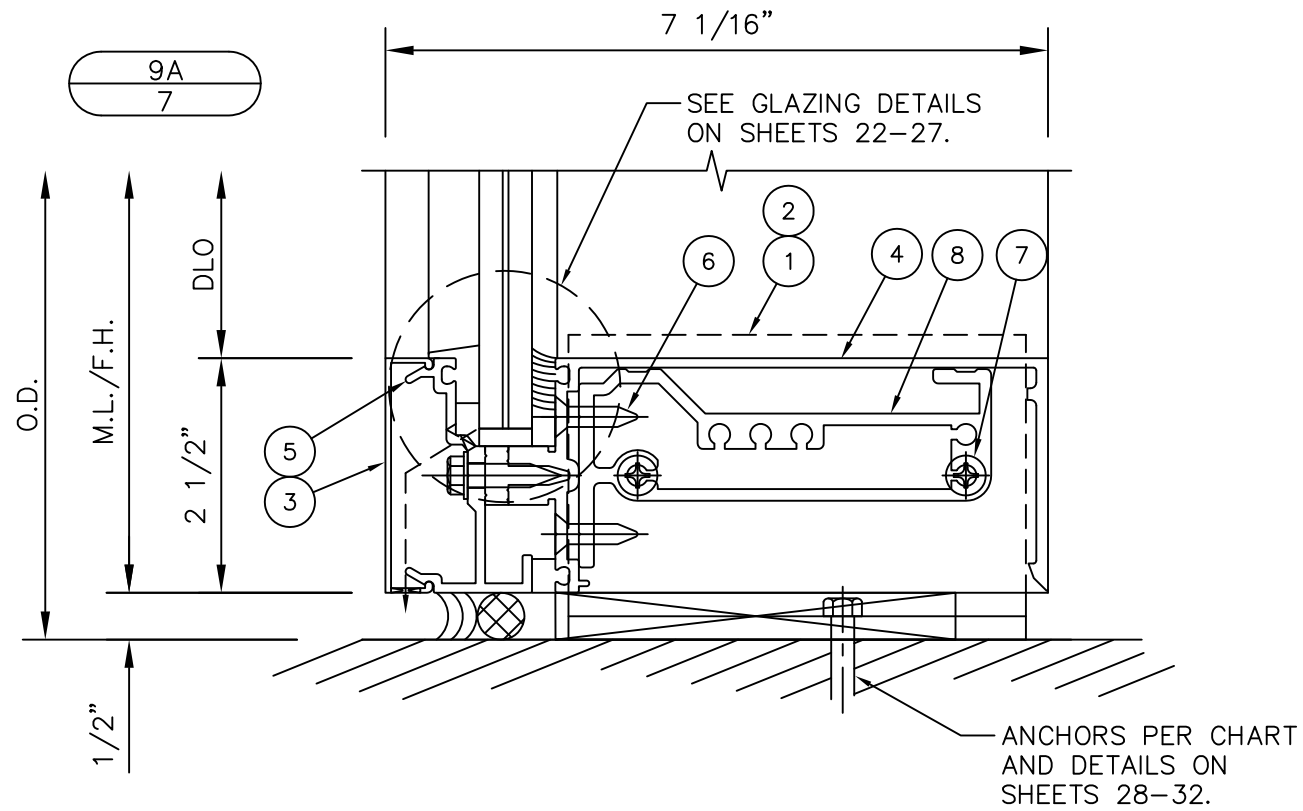
10/27/2021
LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING &
CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NACHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
**1600 WALL
SYSTEM 1 & 2**
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
06/42

| REV.# | DATE |
|----------|------|
| 07/01/21 | |

1ST SUBMITTAL
PRINTS ISSUED FOR

SILL DETAILS



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AN ARCONIC COMPANY

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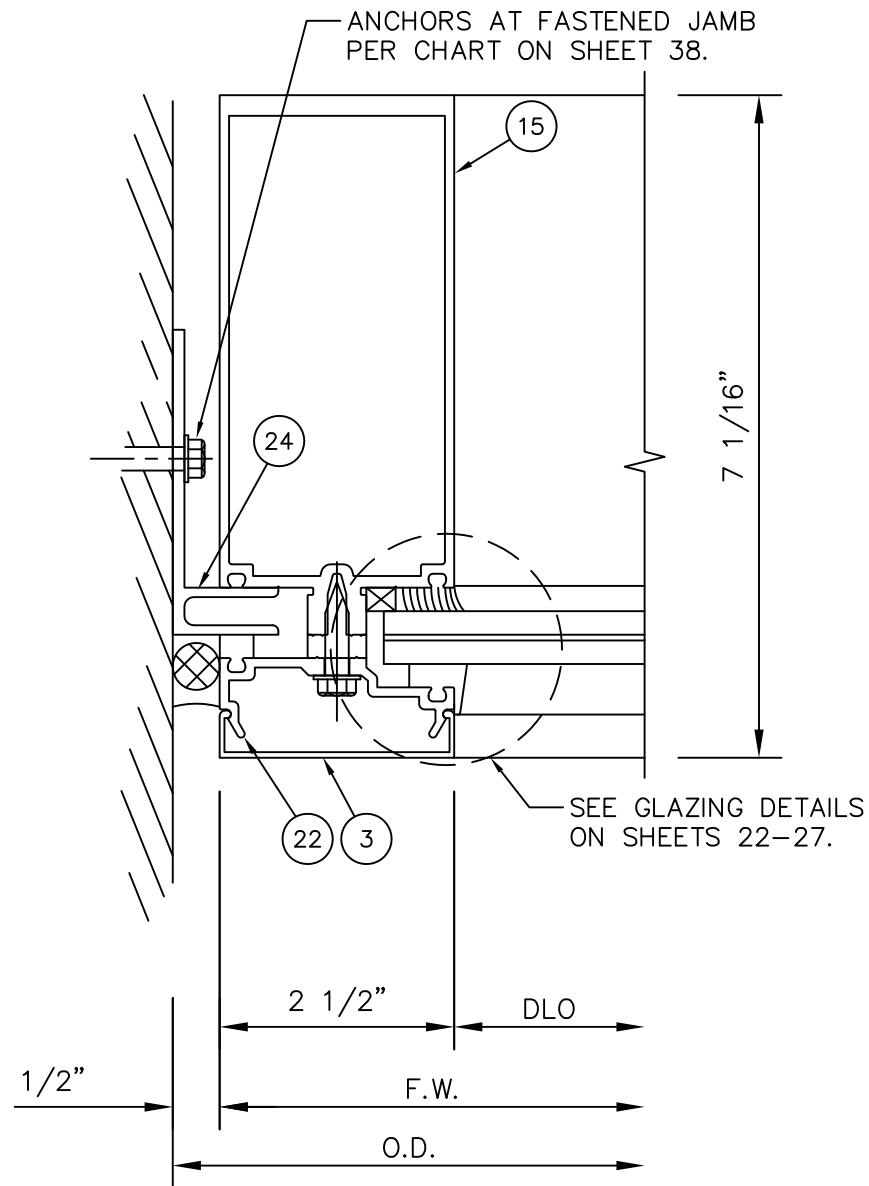


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LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

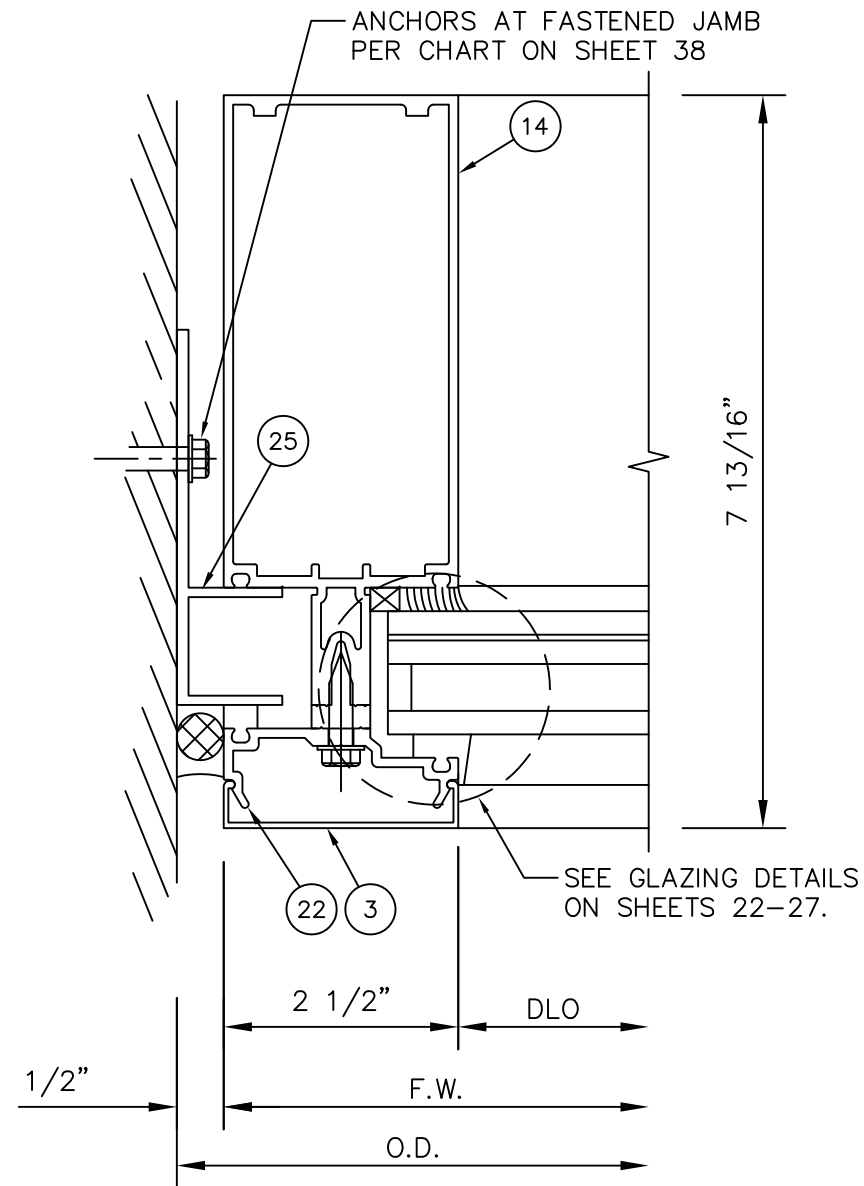
PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
07/42

| REV.# | DATE |
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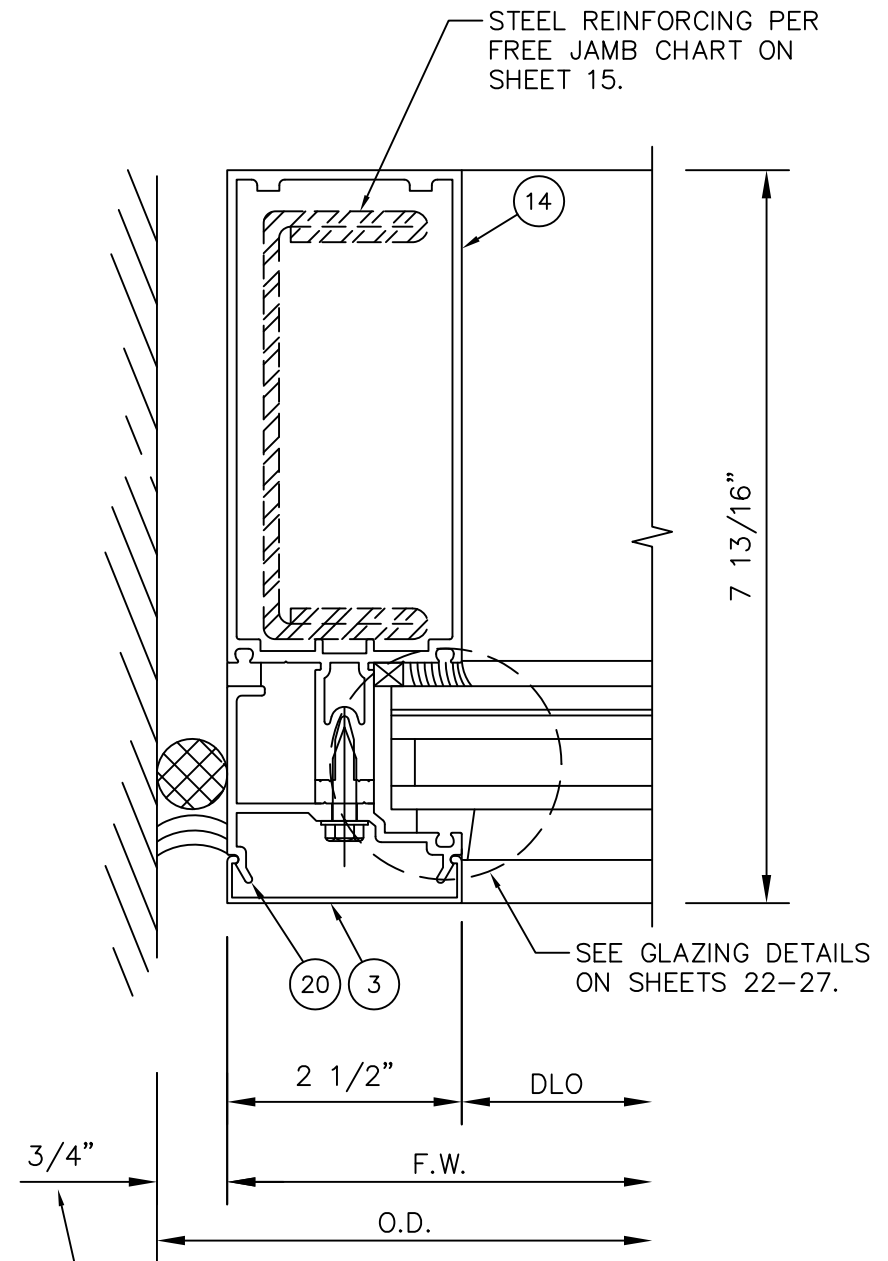
JAMB DETAILS



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11B
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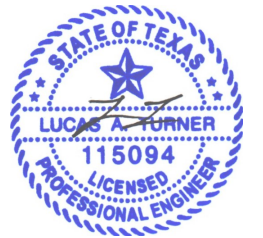


12A
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(12B IS SIMILAR)

NOMINAL DIMENSION. PERIMETER SEALANT WIDTH MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM C1472.

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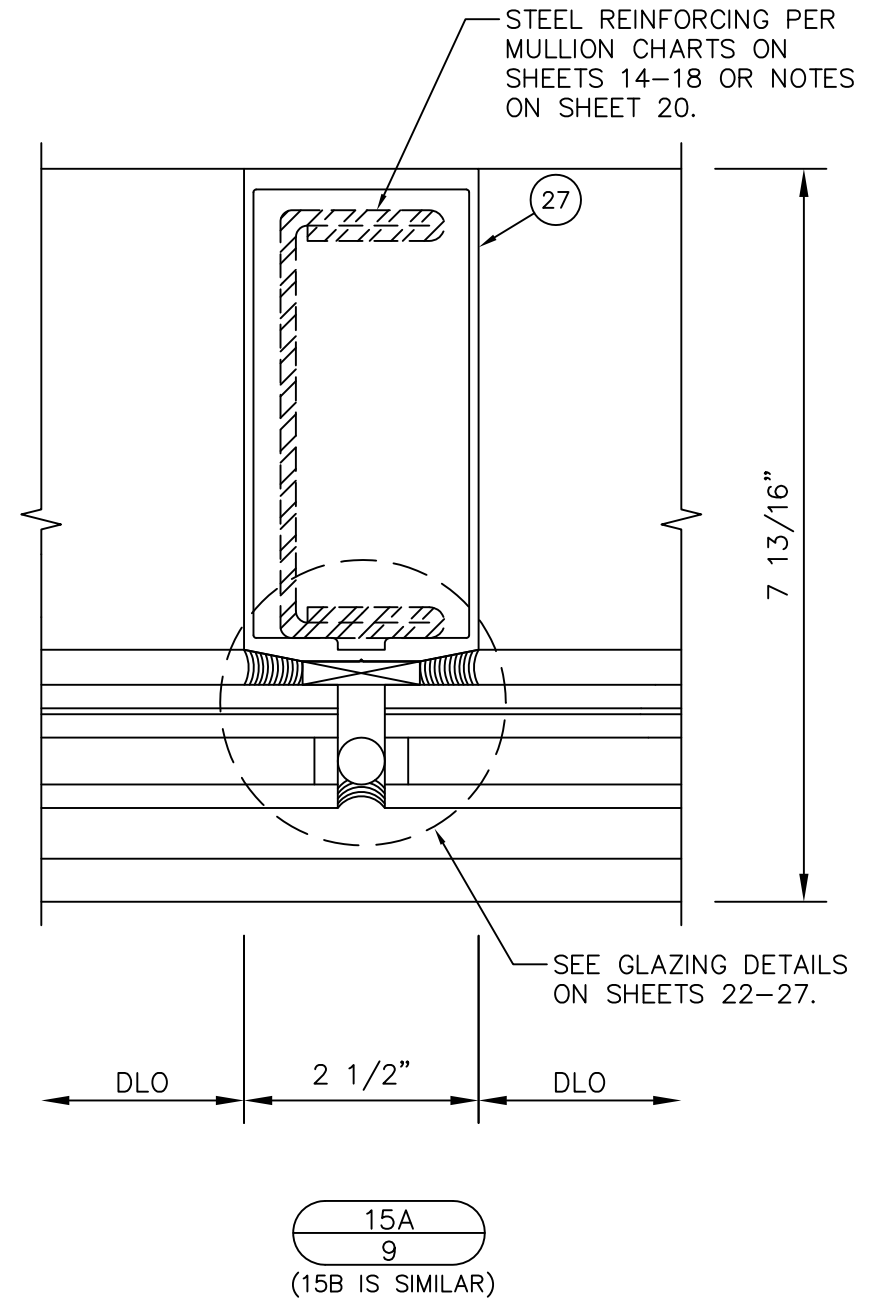
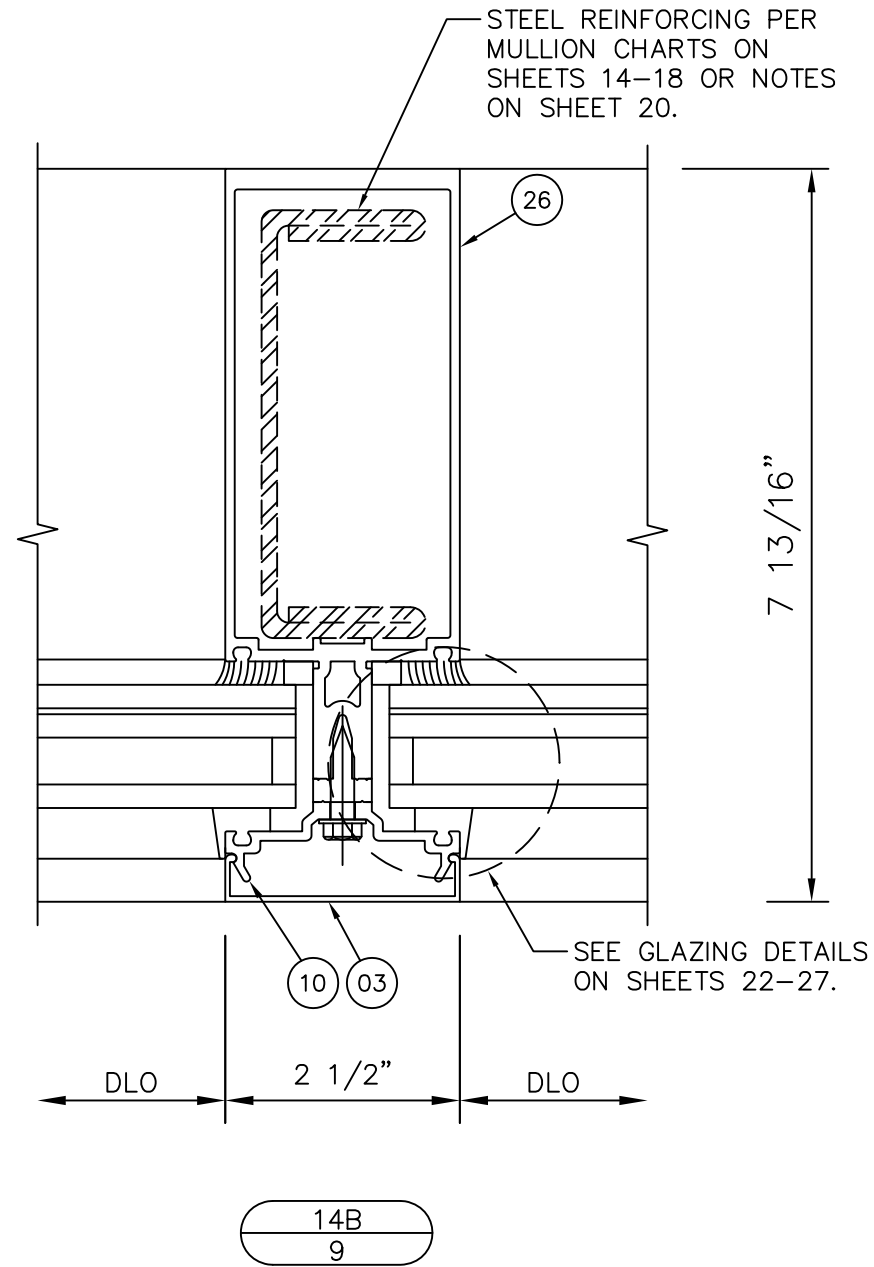
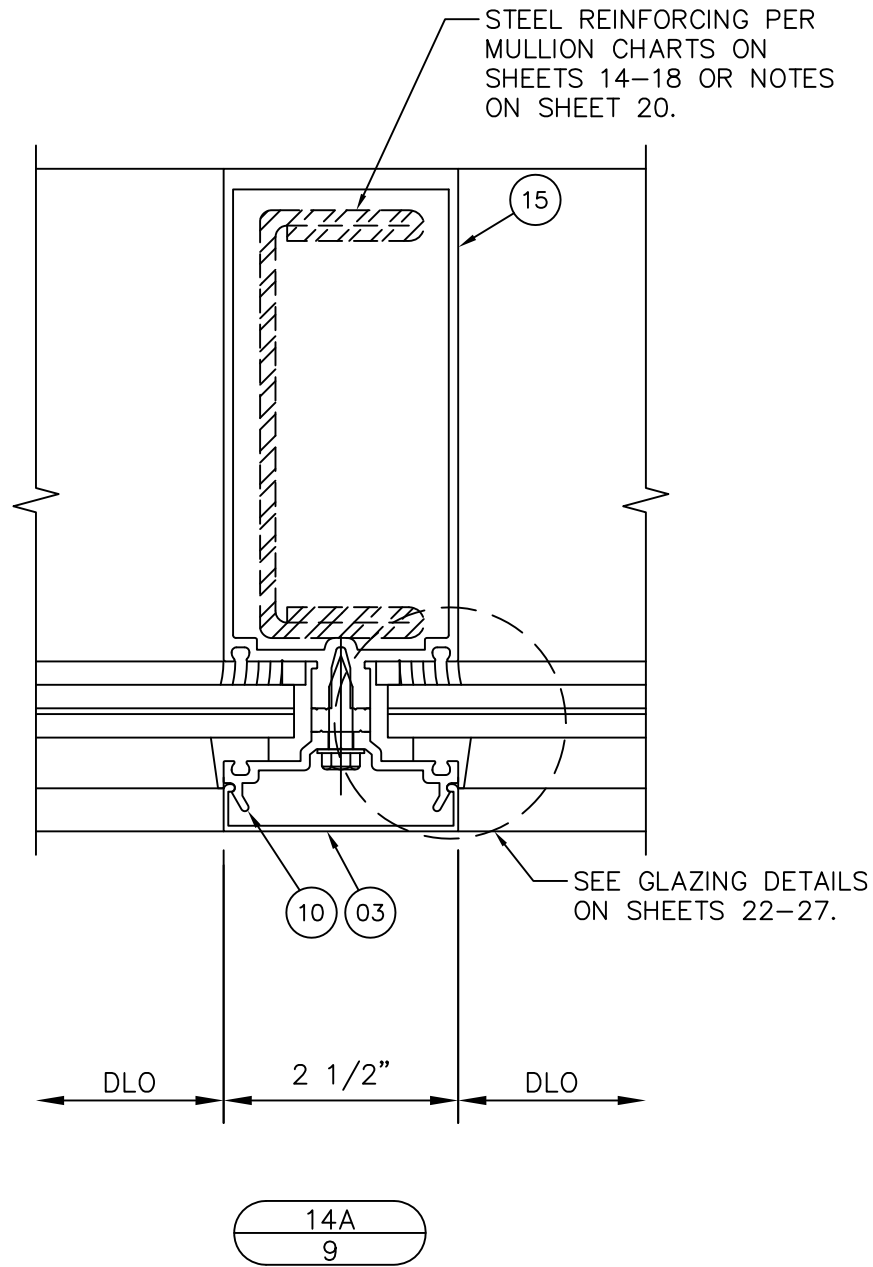


10/27/2021
LUCAS A. TURNER
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TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
08/42

| REV.# | DATE |
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MULLION DETAILS



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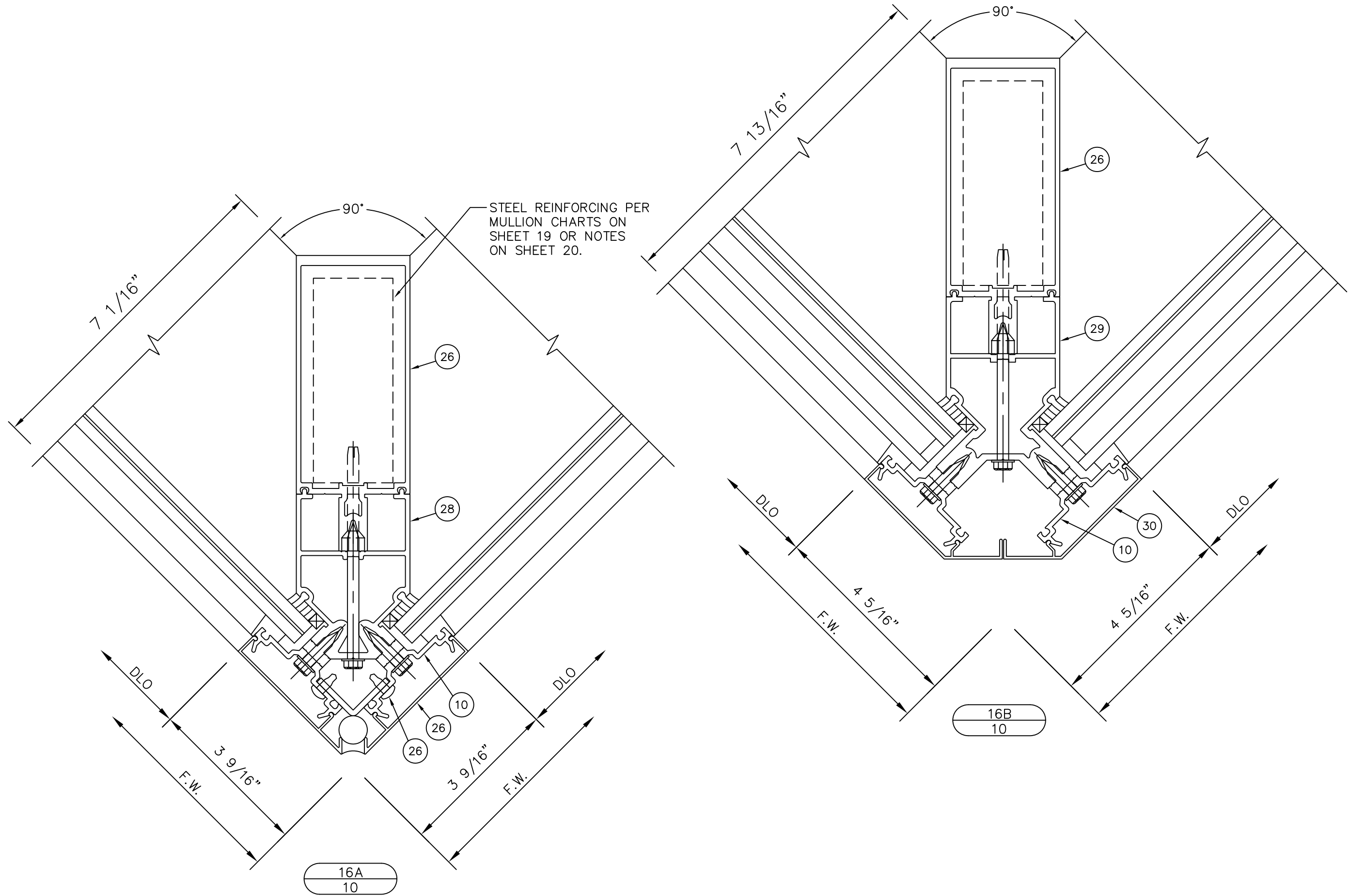


10/27/2021
LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
09/42

| REV.# | DATE |
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CAPTURED CORNER DETAILS



KAWNEER
AN ARCONIC COMPANY

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NORCROSS, GA 30092
PH: (770) 449-5555
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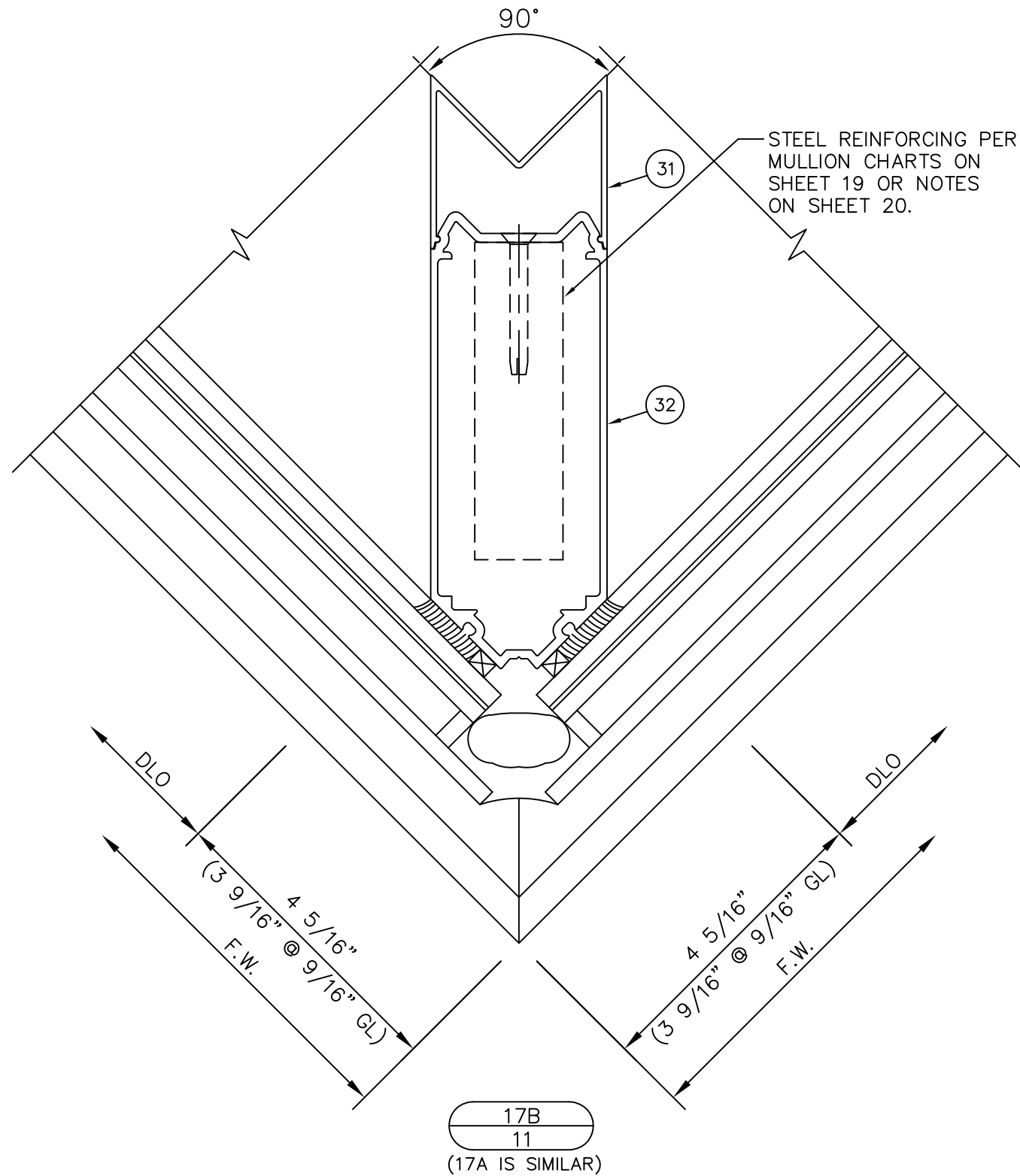


10/27/2021
LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
3
SHEET:
10/42

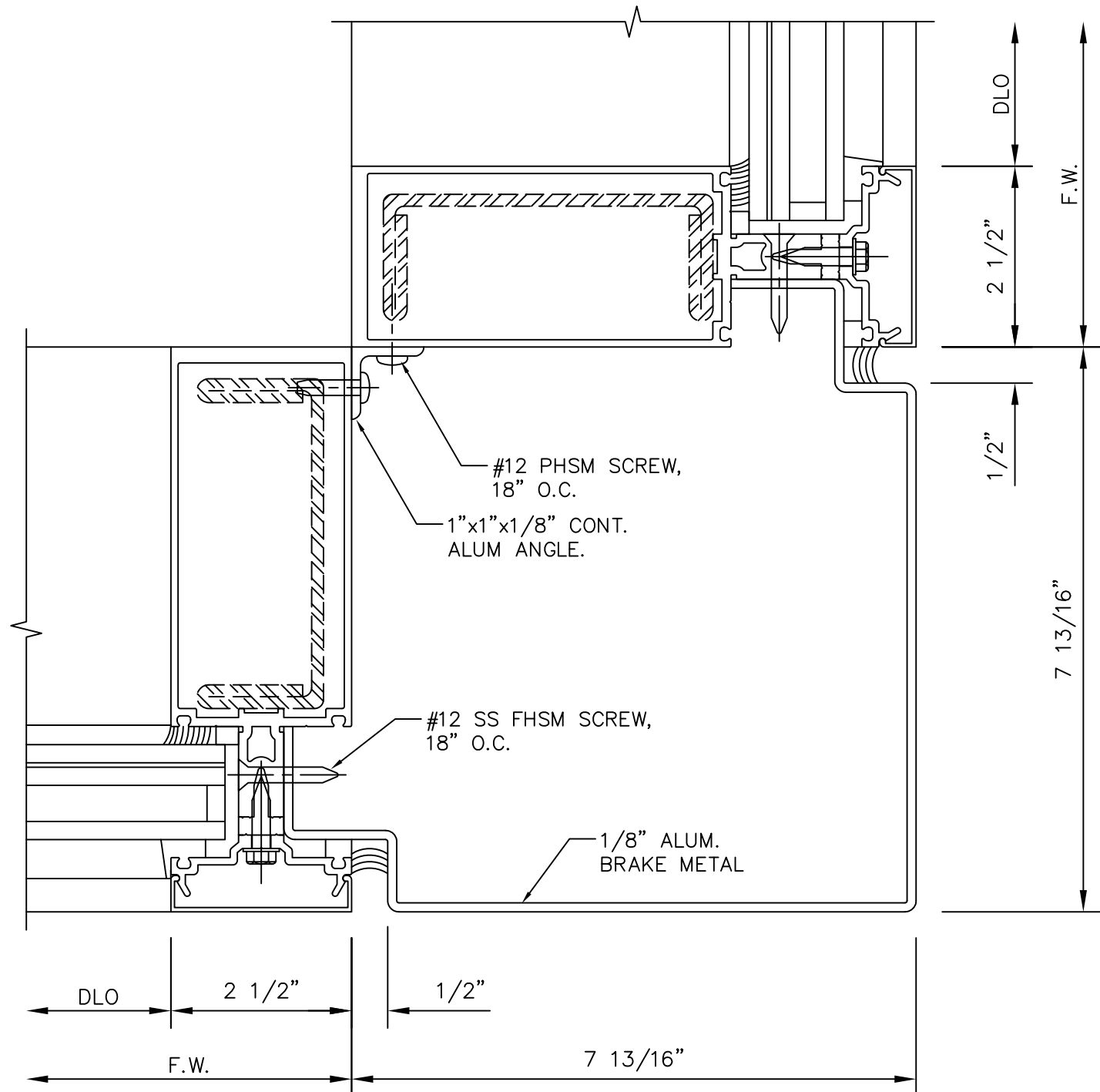
| REV.# | DATE |
|-------------------|----------|
| 1ST SUBMITTAL | 07/01/21 |
| PRINTS ISSUED FOR | |

SSG CORNER DETAILS



OPTIONAL TWO-MULLION CORNER.

ALLOWABLE MULLION HEIGHT, SPACING, AND DESIGN PRESSURE PER STANDARD MULLION CHARTS ON SHEETS 14,16-18, OR 20.



KAWNEER
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PH: (770) 449-5555
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10/27/2021
LUCAS A. TURNER
TX P.E. #115094

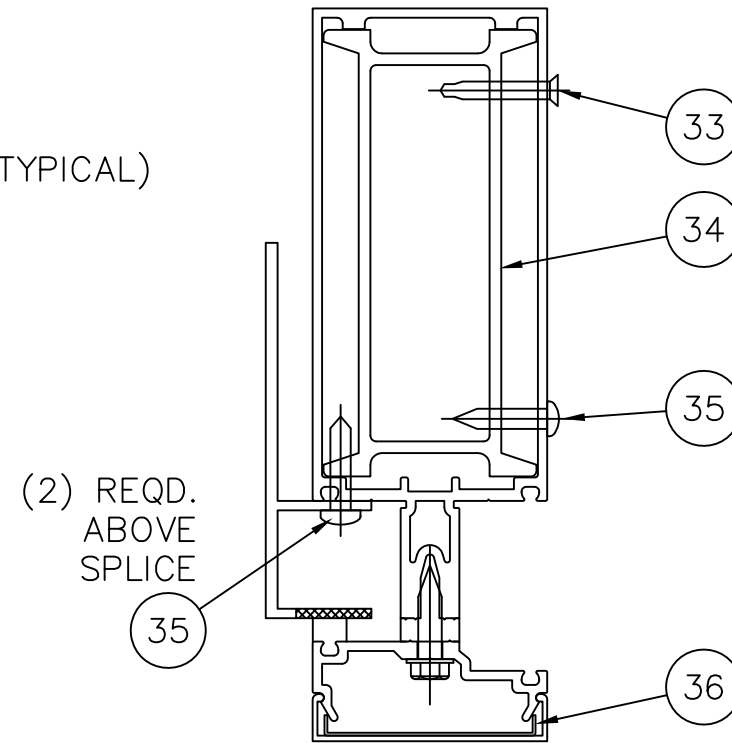
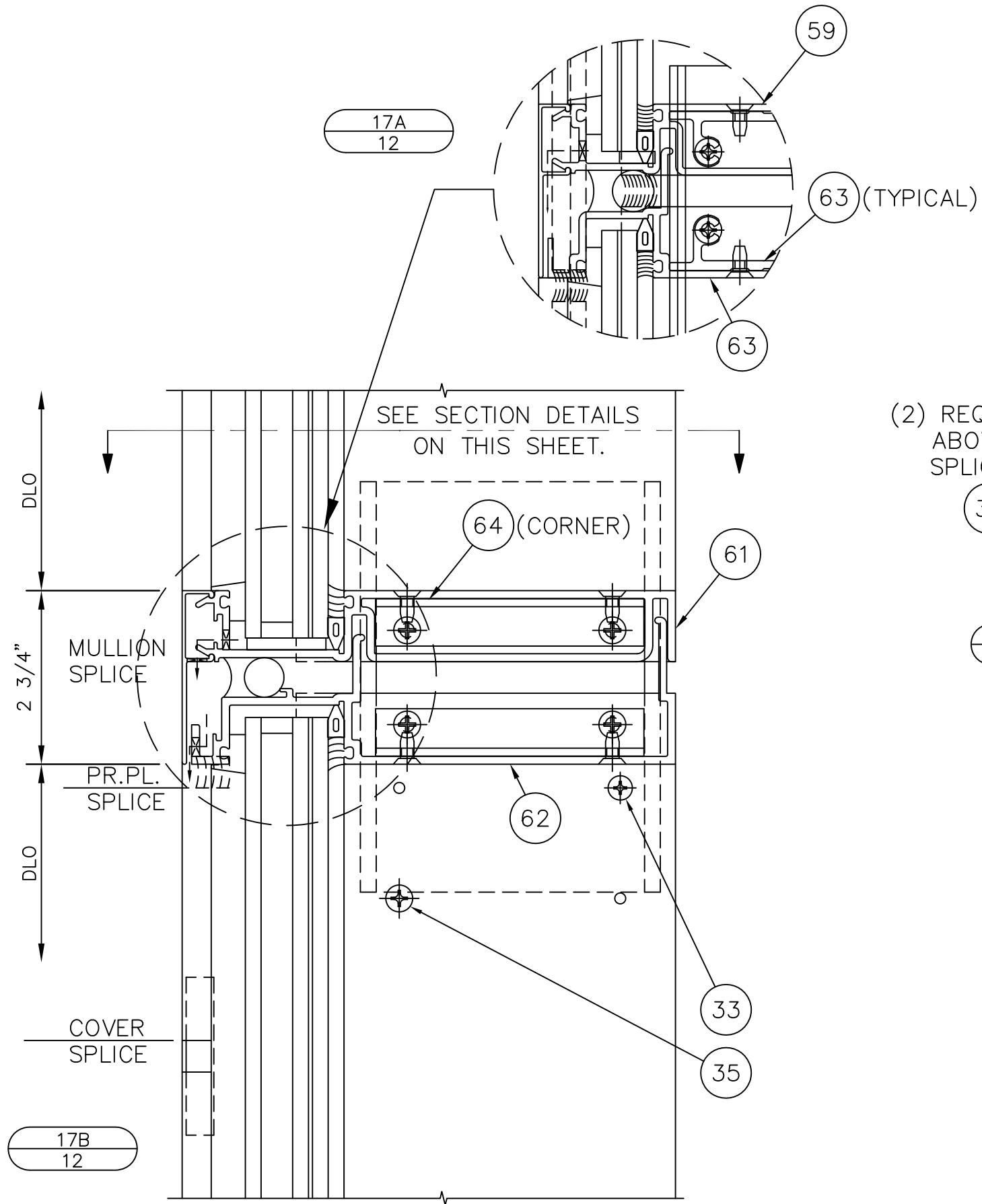
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

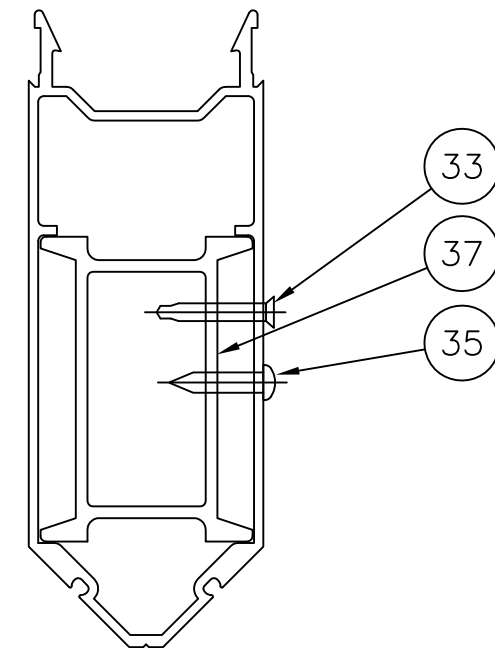
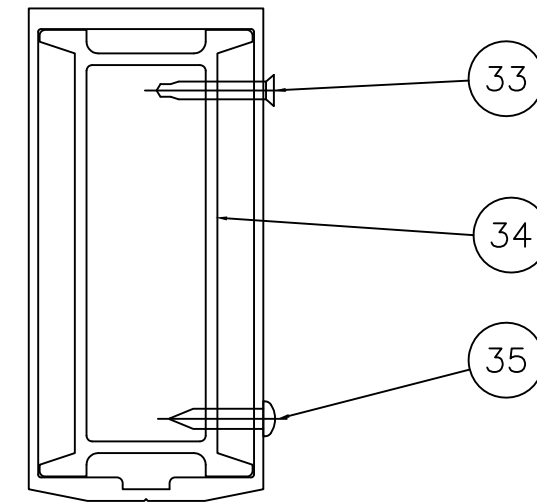
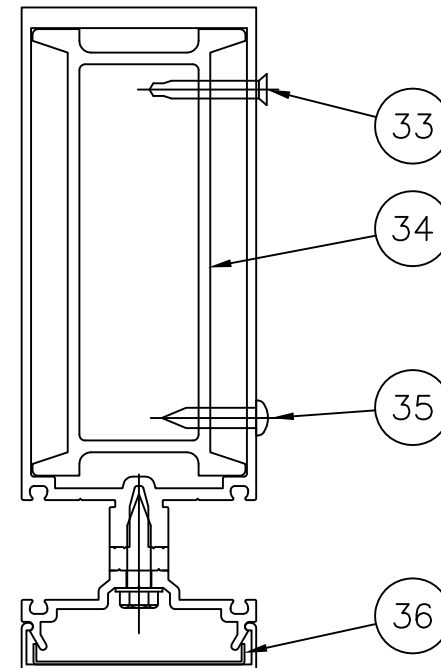
| | |
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| PRODUCT: | 1600 WALL SYSTEM 1 & 2 |
| DWG: | 1600-IR-TDI |
| SECTION: | 3 |
| SHEET: | 11/42 |

| REV.# | DATE |
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MULLION SPLICE DETAILS



SECTION AT SPLICE



KAWNEER
AN ARCONIC COMPANY

PH: (770) 449-5555
WWW.KAWNEER.COM

555 GUTHRIDGE COURT
NORCROSS, GA 30092



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

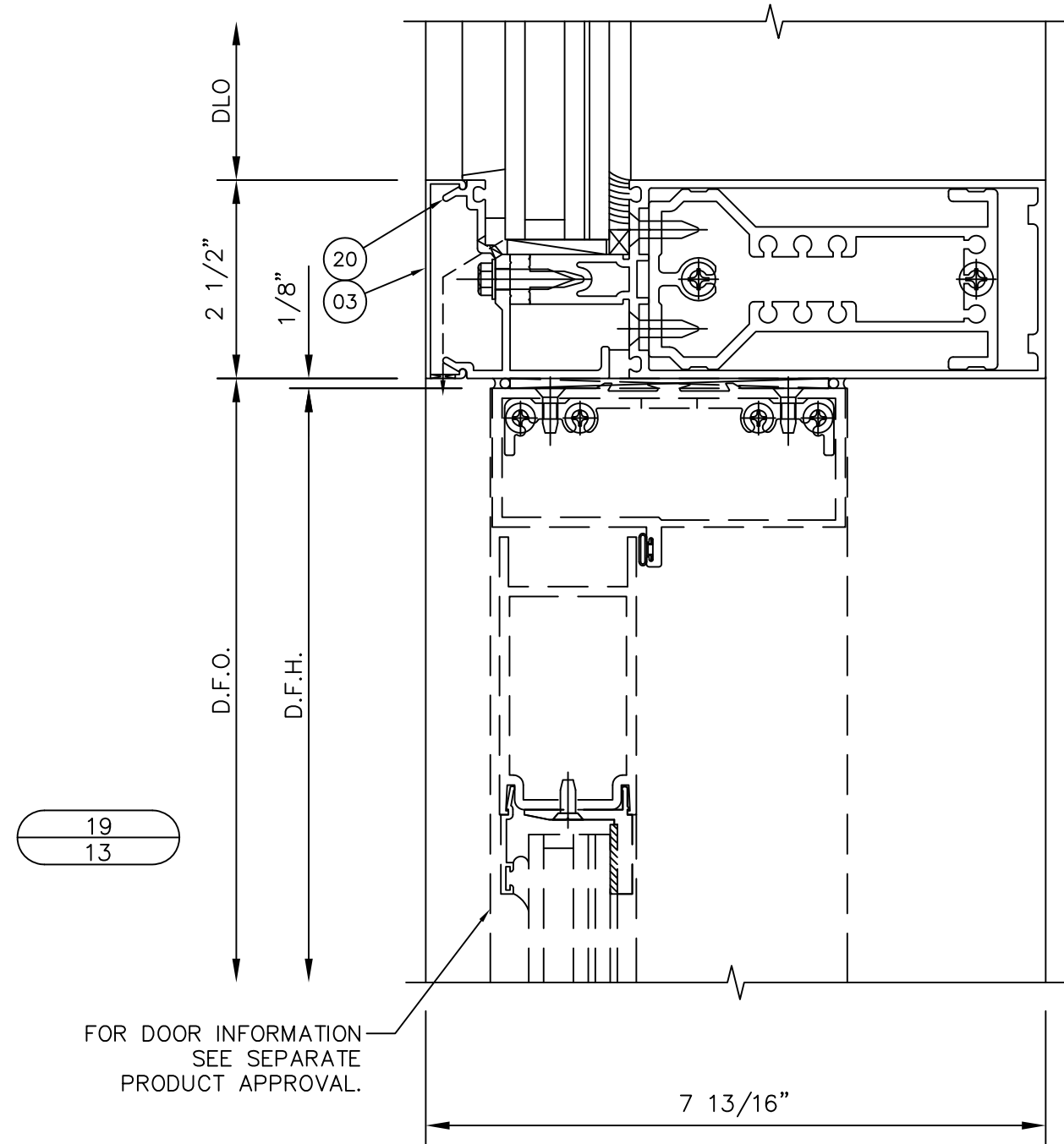
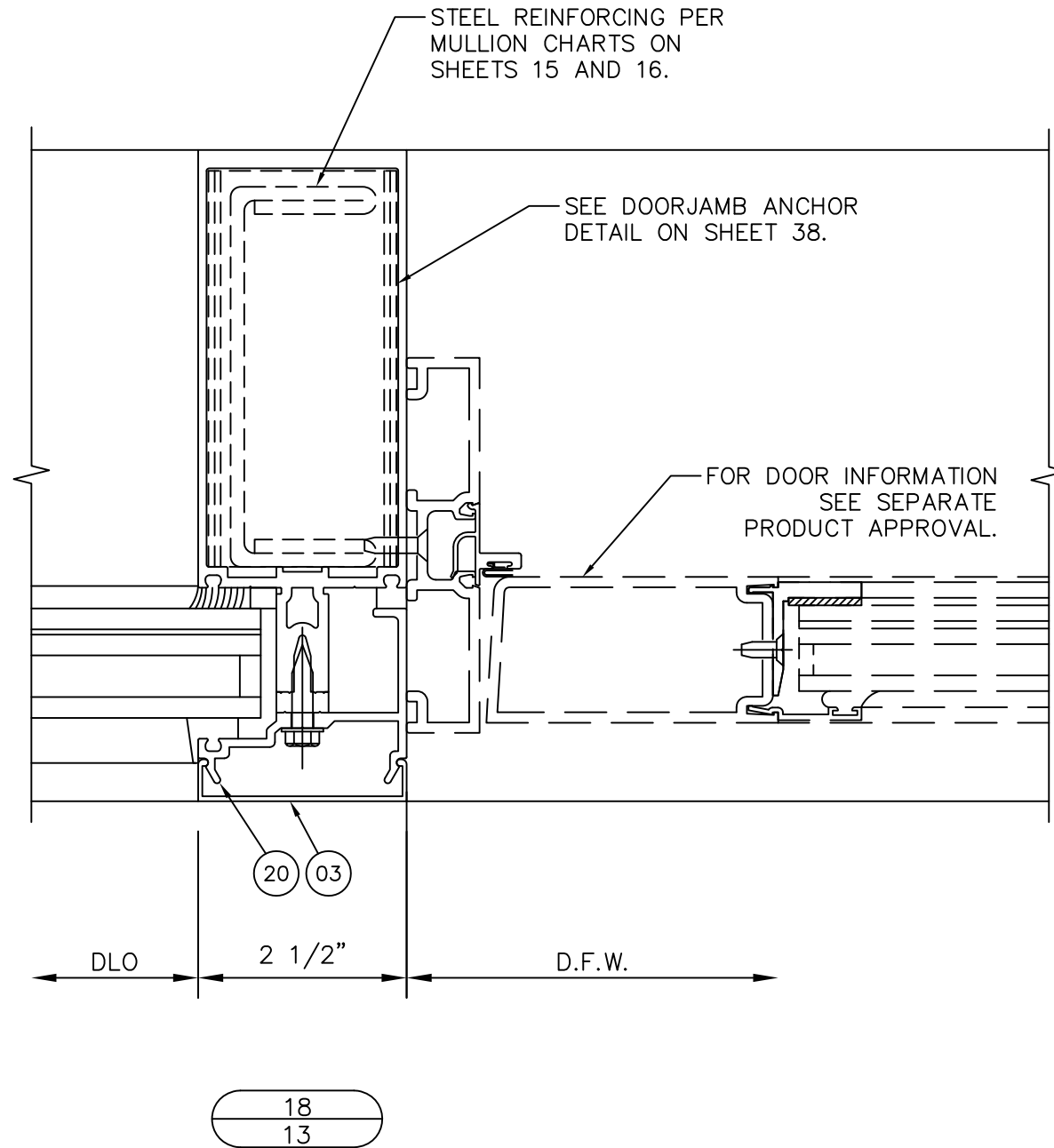
SECTION:
3

SHEET:
12/42

| REV.# | DATE |
|----------|------|
| 07/01/21 | |

1ST SUBMITTAL
PRINTS ISSUED FOR

DOOR DETAILS



| REV.# | DATE |
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| 1 | 07/01/21 |
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2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

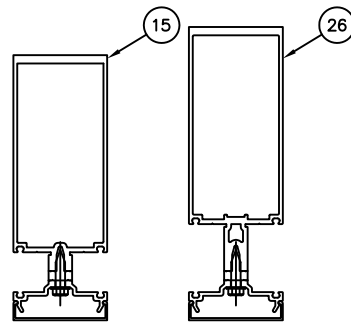
DWG:
1600-IR-TDI

SECTION:
3

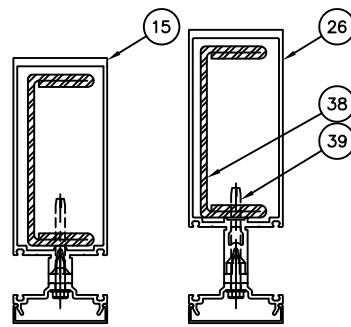
SHEET:
13/42

SINGLE SPAN MULLION LIMITATIONS

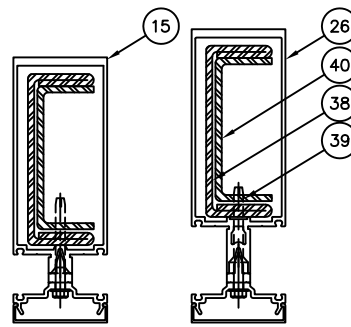
CAPTURED MULLIONS



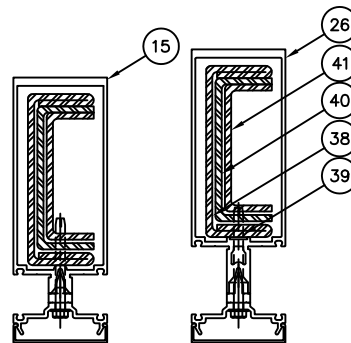
MULLION M1



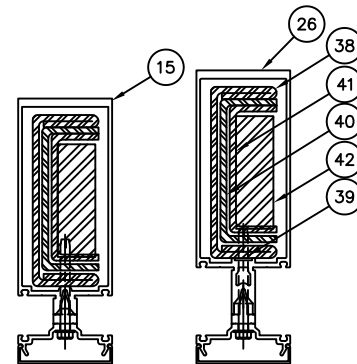
MULLION M2



MULLION M3

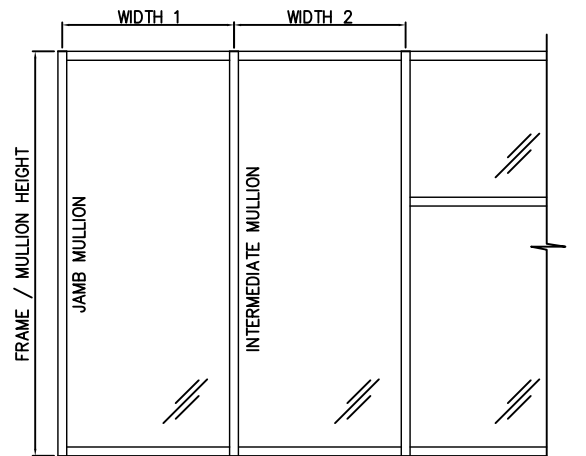


MULLION M4



MULLION M5

| CAPTURED MULLION CHART | | | | | |
|------------------------|------------|---------------------------|------------|------------|-------|
| | | MAX DESIGN PRESSURE (psf) | | | |
| HEIGHT (in) | WIDTH (in) | MULLION M1 | | MULLION M2 | |
| | | (+) | (-) | (+) | (-) |
| 72 | 61 | 100 | 130 | 100 | 130 |
| | 72 | 84.7 | 110.1 | 84.7 | 110.1 |
| | 84 | 72.6 | 94.4 | 72.6 | 94.4 |
| | 96 | 63.2 | 82.2 | 63.5 | 82.6 |
| 84 | 54 | 97.1 | 118.6 | 98 | 127 |
| | 61 | 97.1 | 118.6 | 98 | 127 |
| | 72 | 82.3 | 100 | 83 | 107.6 |
| | 83 | 71.4 | 87.1 | 72 | 93.3 |
| 96 | 54 | 94.3 | 107.1 | 96 | 124.1 |
| | 61 | 94.3 | 107.1 | 96 | 124.1 |
| | 72 | 79.9 | 90.7 | 81.3 | 105.1 |
| | 84 | - | - | 69.7 | 90.1 |
| 108 | 54 | 91.4 | 95.7 | 94 | 121.7 |
| | 61 | 91.4 | 95.7 | 94 | 121.7 |
| | 64 | 87.1 | 91.2 | 89.6 | 116 |
| | 72 | - | - | 79.6 | 103.1 |
| 114 | 36 | 90 | 90 | 93 | 119.6 |
| | 48 | 90 | 90 | 93 | 119.6 |
| | 61 | 90 | 90 | 93 | 119.6 |
| | 72 | - | - | 78.8 | 101.3 |



JAMB MULLION SPACING = WIDTH 1

INTERMEDIATE MULLION SPACING = $\frac{WIDTH 1 + WIDTH 2}{2}$

| CAPTURED MULLION CHART | | | | | | | | | |
|------------------------|------------|---------------------------|------------|------------|------------|------------|-----------|------------|-----------|
| | | MAX DESIGN PRESSURE (psf) | | | | | | | |
| HEIGHT (in) | WIDTH (in) | MULLION M2 | | MULLION M3 | | MULLION M4 | | MULLION M5 | |
| | | (+) | (-) | (+) | (-) | (+) | (-) | (+) | (-) |
| 114 | 61 | 93 | 119.6 | 93 | 121.2 | 93 | 121.2 | 93 | 121.2 |
| | 72 | 78.8 | 101.3 | 100 | 110.6 | 100 | 110.6 | 100 | 110.6 |
| | 85 | 66.7 | 85.8 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 |
| | 88 1/2 | - | - | 90 | 90 | 90 | 90 | 90 | 90 |
| 123 | 56 3/8 | 91.5 | 127 | 91.5 | 127 | 91.5 | 127 | 91.5 | 127 |
| | 60 | 91.5 | 119.3 | 91.3 | 127 | 91.3 | 127 | 91.3 | 127 |
| | 68 3/8 | 83.2 | 108.5 | 90.9 | 127 | 90.9 | 127 | 90.9 | 127 |
| | 78 3/4 | 69.7 | 90.9 | 90.2 | 94.7 | 90.2 | 94.7 | 90.2 | 94.7 |
| 132 | 82 | - | - | 90 | 90 | 90 | 90 | 90 | 90 |
| | 86 1/2 | - | - | - | - | 85.3 | 85.3 | 85.3 | 85.3 |
| | 96 | - | - | - | - | 76.9 | 76.9 | 76.9 | 76.9 |
| | 48 | 91.5 | 112.5 | 91.5 | 127 | 91.5 | 127 | 91.5 | 127 |
| 147 | 60 | 90 | 90 | 90.9 | 117 | 90.9 | 111.7 | 90.9 | 111.7 |
| | 66 | 81.8 | 81.8 | 90.5 | 90 | 90.5 | 104 | 90.5 | 104 |
| | 73 1/2 | 73.5 | 73.5 | 90.2 | 90 | 90.2 | 94.5 | 90.2 | 94.5 |
| | 76 1/4 | - | - | 90 | 90 | 90 | 91 | 90 | 91 |
| 156 | 80 1/2 | - | - | - | - | 84 | 85.5 | 84 | 85.5 |
| | 88 | - | - | - | - | 73.5 | 76 | 73.5 | 76 |
| | 96 | - | - | - | - | 62.2 | 65.8 | 62.2 | 65.8 |
| | 36 | 90 | 90 | 91.5 | 127 | 91.5 | 127 | 91.5 | 127 |
| 168 | 48 | 81.5 | 81.5 | 90.9 | 106 | 90.9 | 106 | 90.9 | 106 |
| | 60 | 71 | 71 | 90 | 90 | 90.4 | 99.8 | 90.4 | 99.8 |
| | 66 | 70 | 70 | 90 | 90 | 90.1 | 93 | 90.1 | 93 |
| | 68 5/8 | - | - | 90 | 90 | 90 | 90 | 90 | 90 |
| 174 | 72 1/4 | - | - | - | - | 84.3 | 85 | 84.3 | 85 |
| | 80 | - | - | - | - | 72.1 | 74.4 | 72.1 | 74.4 |
| | 89 | - | - | - | - | 58 | 62 | 58 | 62 |
| | 36 | 71 | 71 | 90 | 90 | 90 | 118 | 90 | 118 |
| 183 | 41 1/4 | 71 | 71 | 90 | 90 | 90 | 103 | 90 | 103 |
| | 54 | 54.5 | 54.5 | 71.3 | 71.3 | 90 | 90 | 90 | 90 |
| | 60 | - | - | - | - | 86.1 | 86.1 | 90 | 90 |
| | 68 | - | - | - | - | 60 | 74 | 71 | 74 |
| 195 | 72 | - | - | - | - | 60 | 72.3 | 71 | 72.3 |
| | 84 | - | - | - | - | 58 | 62 | 67.4 | 67.4 |
| | 36 | 71 | 71 | 90 | 90 | 90 | 90 | 90 | 90 |
| | 42 | 65 | 65 | 85.1 | 85.1 | 85.1 | 85.1 | 90 | 90 |
| 188 | 50 | 54.6 | 54.6 | 71.5 | 71.5 | 71.5 | 71.5 | 90 | 90 |
| | 60 | - | - | - | - | 52.5 | 52.5 | 82.9 | 82.9 |
| | 63 1/4 | - | - | - | - | 50 | 50 | 71 | 71 |
| | 69 | - | - | - | - | 45.7 | 45.7 | 71 | 71 |
| 195 | 37 | 71 | 71 | 90 | 90 | 90 | 90 | 90 | 90 |
| | 48 | 54.7 | 54.7 | 75.7 | 75.7 | 75.7 | 75.7 | 90 | 90 |
| | 60 | - | - | - | - | 60.5 | 60.5 | 71 | 71 |
| | 66 1/2 | - | - | - | - | 54.6 | 54.6 | 69.7 | 69.7 |
| 195 | 35 5/16 | 71 | 71 | 90 | 90 | 90 | 90 | 90 | 90 |
| | 46 1/4 | - | - | 71 | 71 | 71 | 71 | 89.2 | 89.2 |
| | 58 1/8 | - | - | - | - | 53 | 53 | 71 | 71 |
| | 63 | - | - | - | - | 48.9 | 48.9 | 65.6 | 65.6 |
| 195 | 36 | 43 | 43 | 71 | 71 | 71 | 71 | 71 | 71 |
| | 43 | 43 | 43 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 |
| | 54 5/16 | - | - | - | - | 50 | 50 | 50 | 50 |
| | 59 1/2 | - | - | - | - | 43 | 43 | 43 | 43 |



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2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

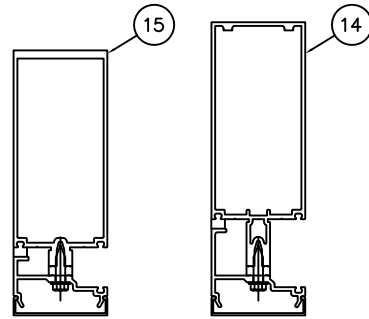
PRODUCT: 1600 WALL SYSTEM 1 & 2
DWG: 1600-IR-TDI
SECTION: 4
SHEET: 14/42

| REV.# | DATE |
|-------|----------|
| | 07/01/21 |

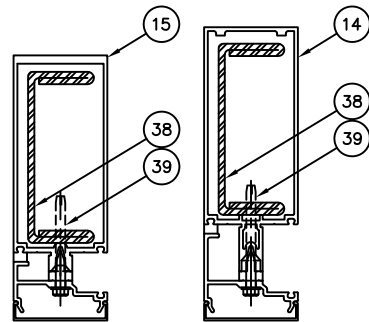
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SINGLE SPAN MULLION LIMITATIONS

FREE JAMB MULLIONS



JAMB MULLION J1



JAMB MULLION J2

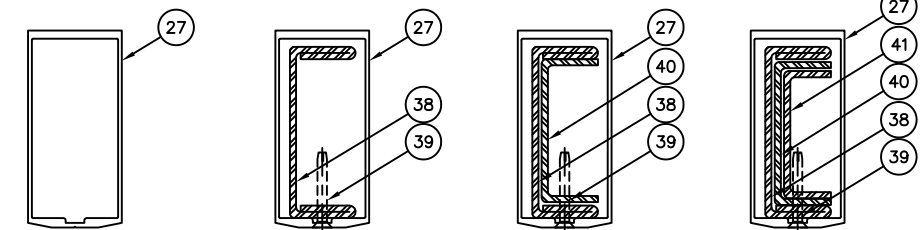
| FREE JAMB MULLION CHART | | | |
|---------------------------|------------|---------------------------------|---------------------------------|
| MAX DESIGN PRESSURE (psf) | | | |
| HEIGHT (in) | WIDTH (in) | JAMB J1 | |
| | | 1/2" MIN. CAULK JOINT WIDTH (+) | 1/2" MIN. CAULK JOINT WIDTH (-) |
| 72 | 60 | 100 | 130 |
| | 72 | 84.7 | 110.1 |
| | 84 | 72.6 | 94.4 |
| | 96 | 63.2 | 82.2 |
| 84 | 54 | 98 | 122 |
| | 60 | 98 | 122 |
| | 72 | 81.7 | 101.7 |
| | 84 | 70 | 87.1 |
| 96 | 54 | 96 | 114 |
| | 60 | 96 | 114 |
| | 72 | 80 | 95 |
| | 84 | 68.6 | 81.4 |
| 114 | 96 | 60 | 71.2 |
| | 36 | 93 | 102 |
| | 48 | 93 | 102 |
| | 61 | 93 | 102 |
| 123 | 72 | 78.8 | 86.4 |
| | 85 | 66.7 | 73.2 |
| | 56 3/8 | 91.5 | 91.5 |
| | 60 | 86 | 86 |
| 123 | 66 | 78.2 | 78.2 |
| | 72 | 71.7 | 71.7 |
| | 81 | 63.7 | 63.7 |

| FREE JAMB MULLION CHART | | | | | | | |
|---------------------------|------------|--------------------------------|------|------------------------------|------|-----------------------------|------|
| MAX DESIGN PRESSURE (psf) | | | | | | | |
| HEIGHT (in) | WIDTH (in) | JAMB J1 | | | | JAMB J2 | |
| | | 1/2" to 3/4" CAULK JOINT WIDTH | | 3/4" to 1" CAULK JOINT WIDTH | | 1/2" MIN. CAULK JOINT WIDTH | |
| | | (+) | (-) | (+) | (-) | (+) | (-) |
| 132 | 48 | 78.1 | 78.1 | 90 | 90 | 90 | 90 |
| | 54 | 69.4 | 69.4 | 90 | 90 | 90 | 90 |
| | 60 | 62.5 | 62.5 | 90 | 90 | 90 | 90 |
| | 66 | 56.8 | 56.8 | 81.8 | 81.8 | 81.8 | 81.8 |
| 147 | 72 | 52.1 | 52.1 | 75 | 75 | 75 | 75 |
| | 76 | 49.3 | 49.3 | 71 | 71 | 71 | 71 |
| | 36 | 67.5 | 67.5 | 77.5 | 77.5 | 77.5 | 77.5 |
| | 48 | 50.6 | 50.6 | 76.2 | 76.2 | 77.5 | 77.5 |
| 147 | 60 | 40.5 | 40.5 | 60.9 | 60.9 | 77.5 | 77.5 |
| | 66 | 36.8 | 36.8 | 76.2 | 76.2 | 71.2 | 71.2 |
| | 68 1/2 | 35.5 | 35.5 | 53.4 | 53.4 | 68.6 | 68.6 |
| | 36 | 52 | 52 | 70 | 70 | 70 | 70 |
| 156 | 42 | 45 | 45 | 67.5 | 67.5 | 70 | 70 |
| | 48 | 39.7 | 39.7 | 59.5 | 59.5 | 70 | 70 |
| | 54 | 35.5 | 35.5 | 53.1 | 53.1 | 70 | 70 |
| | 60 | 31.9 | 31.9 | 48 | 48 | 69.5 | 69.5 |
| 168 | 64 1/2 | 29.7 | 29.7 | 44.8 | 44.8 | 64.7 | 64.7 |
| | 36 | 38.6 | 38.6 | 58 | 58 | 70 | 70 |
| | 42 | 33.5 | 33.5 | 50.2 | 50.2 | 70 | 70 |
| | 48 | 29.4 | 29.4 | 44.2 | 44.2 | 70 | 70 |
| 180 | 54 | 26 | 26 | 38.8 | 38.8 | 66.7 | 66.7 |
| | 60 | 23.7 | 23.7 | 35.7 | 35.7 | 60 | 60 |
| | 36 | - | - | - | - | 60.3 | 60.3 |
| | 42 | - | - | - | - | 51.6 | 51.6 |
| 195 | 46 1/2 | - | - | - | - | 46.7 | 46.7 |
| | 36 | - | - | - | - | 51.3 | 51.3 |
| | 43 | - | - | - | - | 43 | 43 |

FREE JAMB MULLION NOTES:

- JAMB MULLIONS THAT DO NOT MEET THE REQUIREMENTS ABOVE MUST BE ANCHORED TO THE STRUCTURE PER DETAIL 11/8 AND THE JAMB ANCHOR CHARTS ON SHEET 38.
- FREE JAMB MULLION DEFLECTION AND CAULK JOINT PERIMETER SEALANT MUST MEET THE REQUIREMENTS OF ASTM C1472.
- STEEL REINFORCING LENGTH IS SPAN LENGTH MINUS 24".

SSG MULLIONS



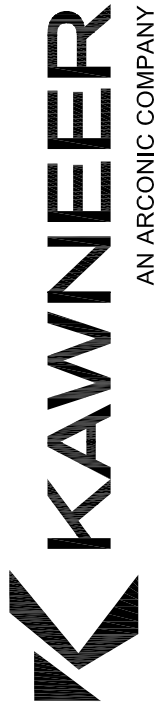
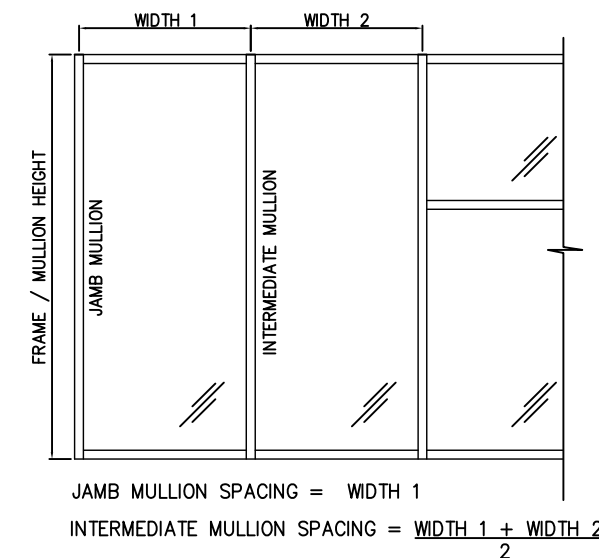
MULLION M6

MULLION M7

MULLION M8

MULLION M9

| SSG MULLION PRESSURE CHART | | | | | | | | | |
|----------------------------|------------|------------|-----|------------|-----|------------|-----|------------|-----|
| MAX DESIGN PRESSURE (psf) | | | | | | | | | |
| HEIGHT (in) | WIDTH (in) | MULLION M6 | | MULLION M7 | | MULLION M8 | | MULLION M9 | |
| | | (+) | (-) | (+) | (-) | (+) | (-) | (+) | (-) |
| | | 106 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| 84 | - | | - | 60 | 60 | 60 | 60 | 60 | 74 |
| 96 | - | | - | - | - | 60 | 60 | 60 | 74 |
| 147 | 76 | - | - | 60 | 60 | 60 | 60 | 60 | 74 |
| | 96 | - | - | - | - | 60 | 60 | 60 | 74 |
| 156 | 64 1/2 | - | - | - | - | 60 | 60 | 60 | 74 |
| | 84 | - | - | - | - | 60 | 60 | 58 | 62 |
| 168 | 60 | - | - | - | - | 60 | 60 | 60 | 60 |



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 CAMDEN, TN 38320
 PH. 941-380-1574

PRODUCT: 1600 WALL SYSTEM 1 & 2
 DWG: 1600-IR-TDI
 SECTION: 4
 SHEET: 15/42

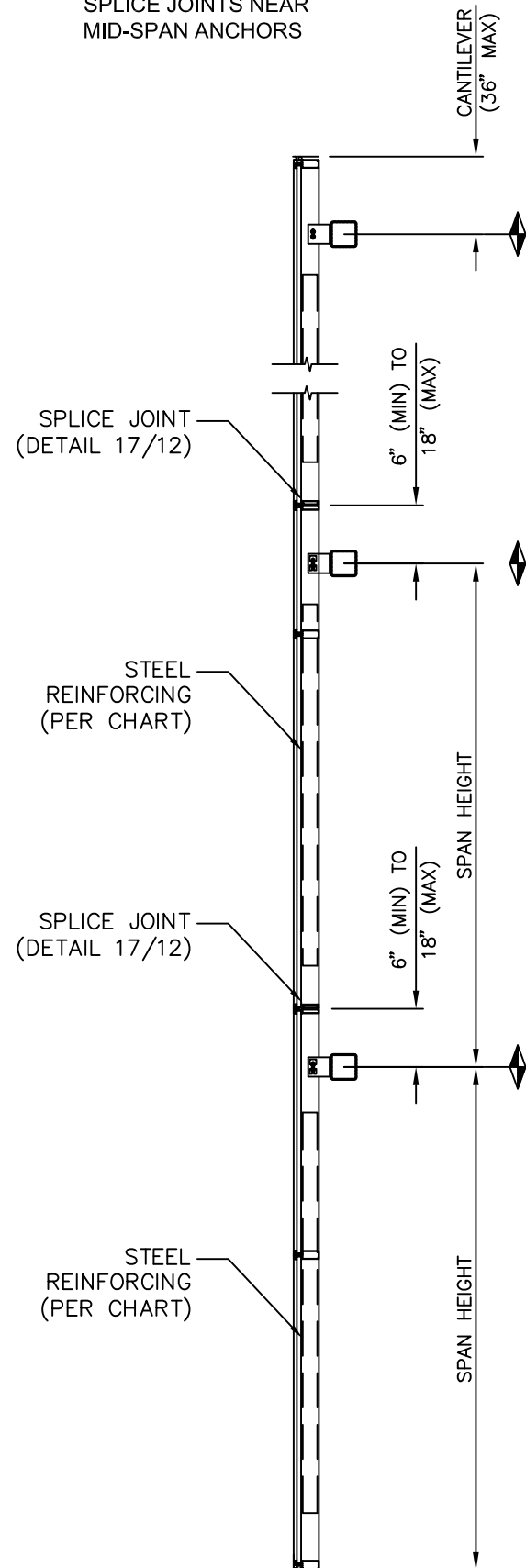
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 PRINTS ISSUED FOR
 REV.#
 DATE 07/01/21

MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 1:

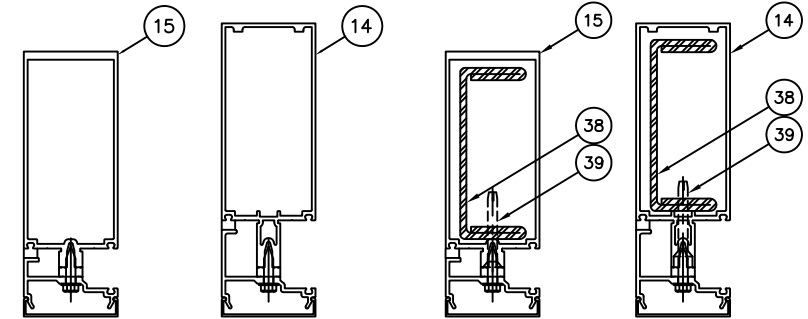
SPLICE JOINTS NEAR MID-SPAN ANCHORS



| MULTI-SPAN MULLION CHART - WALL SECTION 1 | | | | | | | | | | | | | |
|---|------------|--------------|----------|-------------------|----------|----------|--------------|------|------|------|------|------|--|
| MAX DESIGN PRESSURE (psf) | | | | | | | | | | | | | |
| HEIGHT (in) | WIDTH (in) | JAMB MULLION | | CAPTURED MULLIONS | | | SSG MULLIONS | | | | | | |
| | | J1 (+/-) | J2 (+/-) | M1 (+/-) | M2 (+/-) | M3 (+/-) | M6 | | M7 | | M8 | | |
| | | | | | | | (+) | (-) | (+) | (-) | (+) | (-) | |
| 114 | 54 | 71 | 71 | 90 | 90 | 90 | 60 | 72.2 | 60 | 74 | 60 | 74 | |
| | 62 | 71 | 71 | 86.1 | 86.1 | 86.1 | 60 | 62.9 | 60 | 74 | 60 | 74 | |
| | 66 | 71 | 71 | - | 80.9 | 80.9 | - | - | 60 | 74 | 60 | 74 | |
| | 72 | - | 71 | - | 74.2 | 74.2 | - | - | 60 | 74 | 60 | 74 | |
| | 78 | - | 71 | - | 68.5 | 68.5 | - | - | 60 | 68.5 | 60 | 68.5 | |
| 84 | - | 71 | - | 63.6 | 63.6 | - | - | 60 | 63.6 | 60 | 63.6 | | |
| 118 | 48 | 71 | 71 | 90 | 90 | 90 | 60 | 72 | 60 | 74 | 60 | 74 | |
| | 54 | 71 | 71 | 80 | 90 | 90 | 60 | 64 | 60 | 74 | 60 | 74 | |
| | 60 | 71 | 71 | 72 | 86.4 | 86.4 | 57.6 | 57.6 | 60 | 74 | 60 | 74 | |
| | 66 | 71 | 85.3 | - | 78.5 | 78.5 | - | - | 60 | 74 | 60 | 74 | |
| | 72 | - | 78.1 | - | 72 | 72 | - | - | 60 | 72 | 60 | 72 | |
| 78 | - | 72.1 | - | 66.4 | 66.4 | - | - | 60 | 66.4 | 60 | 66.4 | | |
| 84 | - | 67 | - | 61.7 | 61.7 | - | - | 60 | 61.7 | 60 | 61.7 | | |
| 132 | 48 | - | 71 | - | 81.9 | 90 | - | - | 60 | 74 | 60 | 74 | |
| | 60 | - | 71 | - | 65.5 | 77.8 | - | - | 60 | 65.5 | 60 | 74 | |
| | 72 | - | 71 | - | 54.6 | 64.8 | - | - | 54.6 | 54.6 | 60 | 65 | |
| | 78 | - | 71 | - | 50.4 | 59.9 | - | - | 50.4 | 50.4 | 60 | 60 | |
| | 84 | - | 71 | - | - | 55.6 | - | - | - | - | 55.6 | 55.6 | |
| 144 | 48 | - | 71 | - | 81.8 | 87.8 | - | - | 60 | 69.3 | 60 | 69.3 | |
| | 54 | - | 71 | - | 72.7 | 78.1 | - | - | 60 | 69.3 | 60 | 69.3 | |
| | 60 | - | 71 | - | 65.4 | 70.3 | - | - | 60 | 65.4 | 60 | 69.3 | |
| | 70 | - | 71 | - | 56.1 | 60.2 | - | - | 56.1 | 56.1 | 60 | 60.2 | |
| | 77 1/2 | - | 64.6 | - | - | 54.4 | - | - | - | - | 54.4 | 54.4 | |
| 156 | 54 | - | 71 | - | 61.6 | 68.7 | - | - | 60 | 61.6 | 60 | 64.6 | |
| | 60 | - | 70.8 | - | 55.5 | 61.8 | - | - | 55.4 | 55.4 | 60 | 61.8 | |
| | 64 1/2 | - | 65.8 | - | 51.6 | 57.5 | - | - | 51.6 | 51.6 | 57.6 | 57.6 | |
| | 71 3/4 | - | 59.2 | - | - | 51.7 | - | - | - | - | 51.7 | 51.7 | |
| 168 | 42 | - | 71 | - | 67.8 | 75.6 | - | - | 60 | 60 | 60 | 60 | |
| | 48 | - | 66 | - | 59.3 | 66.2 | - | - | 59.4 | 59.4 | 60 | 60 | |
| | 54 | - | 58.7 | - | 52.8 | 59.9 | - | - | 52.8 | 52.8 | 58.9 | 58.9 | |
| | 60 | - | 52.8 | - | 47.5 | 53 | - | - | 47.5 | 47.5 | 53 | 53 | |
| | 66 5/8 | - | 47.6 | - | - | 47.7 | - | - | - | - | 47.7 | 47.7 | |

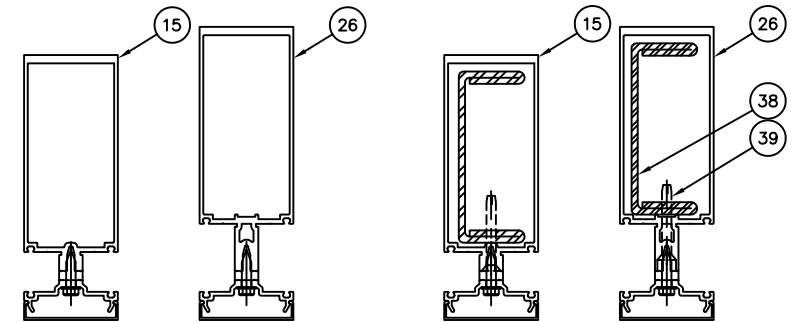
WALL SECTION 1 NOTES:

- SPLICE JOINTS ARE LOCATED NEAR (6" to 18") EACH MID-SPAN ANCHOR.
- VALUES IN CHART ARE FOR EQUAL SPANS. FOR UNEQUAL SPANS, SEE THE MULTI-SPAN REQUIREMENTS ON SHEET 20.
- STEEL REINFORCING LENGTH IS SPAN LENGTH MINUS 24", OR DISTANCE FROM SPLICE TO ANCHOR MINUS 24".
- FOR MULLIONS WITH NO SPLICE JOINTS, SPLICE JOINTS FARTHER FROM ANCHOR POINTS, OR MULLIONS THAT EXCEED THE DIMENSIONS LISTED, SEE EITHER THE WALL SECTIONS ON SHEETS 17, 18, OR THE MULTI-SPAN NOTES ON SHEET 20.



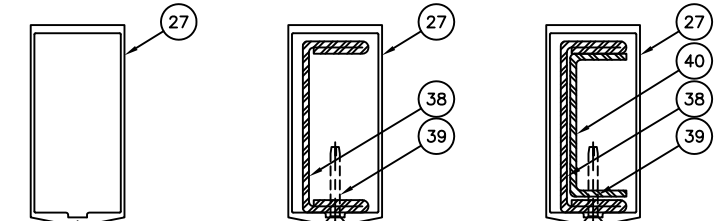
JAMB MULLION J1

JAMB MULLION J2



MULLION M1

MULLION M2

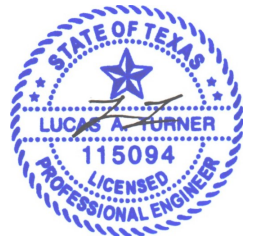


MULLION M6

MULLION M7

MULLION M8

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TBPE REG. #F-18075
2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
4
SHEET:
16/42

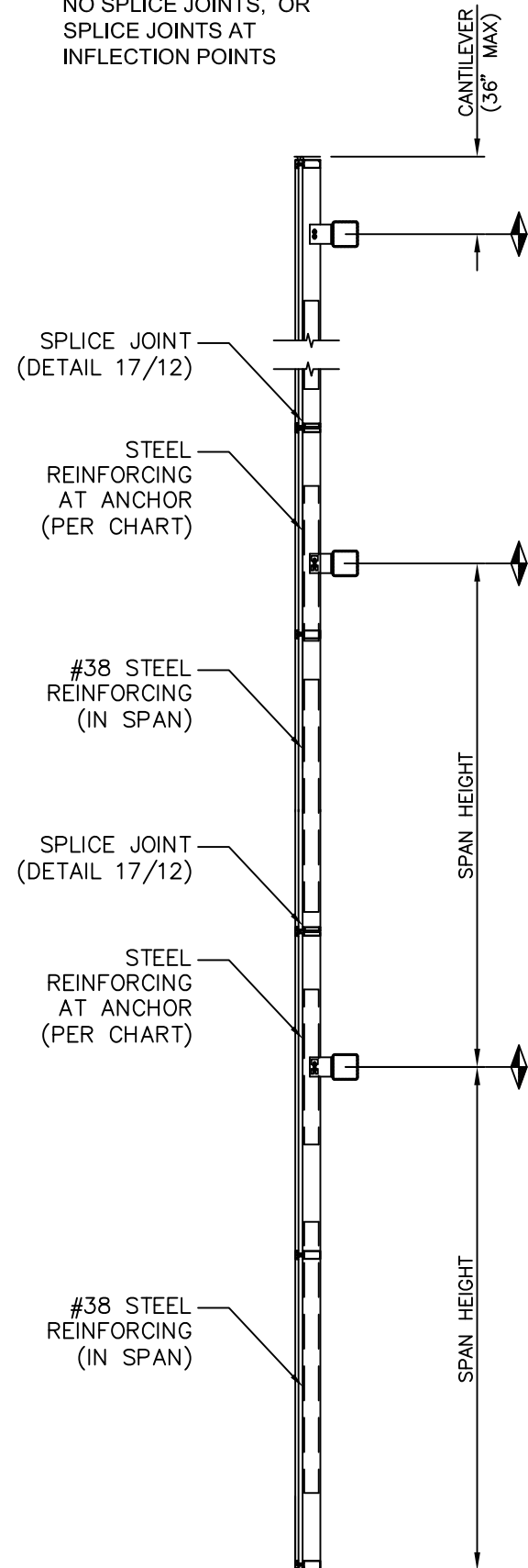
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| 1 | 07/01/21 |

MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 2:

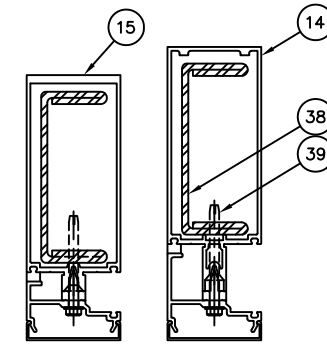
NO SPLICE JOINTS, OR
SPLICE JOINTS AT
INFLECTION POINTS



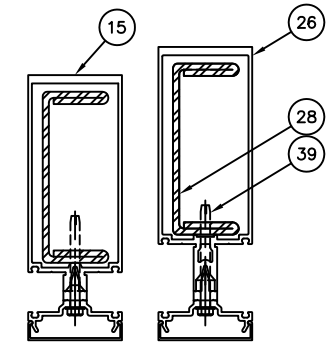
| MULTI-SPAN MULLION CHART - WALL SECTION 2 | | | | | | | | | | |
|---|---------------|-----------------|----------------------|-------------|-------------|-----|-------------|------|------|--|
| MAX DESIGN PRESSURE (PSF) | | | | | | | | | | |
| HEIGHT (in) | WIDTH (in) | JAMB MULLION | CAPTURED MULLIONS | | | | SSG MULLION | | | |
| | | J2 (+/-) | M2 (+/-) | M3 (+/-) | M4 (+/-) | M7 | | M8 | | |
| | | | | | | (+) | (-) | (+) | (-) | |
| 120 | 66 | 71 | 71 | 90 | 90 | 60 | 74 | 60 | 74 | |
| | 72 | 71 | 71 | 90 | 90 | 60 | 74 | 60 | 74 | |
| | 78 | 66.8 | 71 | 87.9 | 90 | 60 | 74 | 60 | 74 | |
| | 84 | 62 | 71 | 81.6 | 90 | 60 | 74 | 60 | 74 | |
| | 96 | 54.3 | - | - | 90 | - | - | 60 | 71.4 | |
| 132 | 54 | 71 | 71 | 90 | 90 | 60 | 74 | 60 | 74 | |
| | 60 | 71 | 71 | 90 | 90 | 60 | 74 | 60 | 74 | |
| | 68 | 69.4 | 71 | 90 | 90 | 60 | 71.4 | 60 | 74 | |
| | 76 | 62.1 | 63.9 | 81.8 | 90 | 60 | 63.9 | 60 | 68.7 | |
| | 87 | 54.3 | - | - | 90 | - | - | 60 | 60 | |
| 144 | 54 | 71 | 71 | 90 | 90 | 60 | 60 | 60 | 60 | |
| | 60 | 71 | 70 | 90 | 90 | 60 | 60 | 60 | 60 | |
| | 70 | 61.5 | 60 | 81.4 | 90 | 60 | 60 | 60 | 60 | |
| | 80 | 53.8 | - | - | 90 | - | - | 59.6 | 59.6 | |
| 156 | 54 | 71 | 71 | 90 | 90 | 60 | 60 | 60 | 60 | |
| | 60 | 66.2 | 64 | 86.7 | 90 | 60 | 60 | 60 | 60 | |
| | 64 | 62.1 | 60 | 81.3 | 90 | 60 | 60 | 60 | 60 | |
| | 73 | 54.4 | - | - | 90 | - | - | 57.6 | 57.6 | |
| 168 | 48 | 71 | 71 | 90 | 90 | 60 | 60 | 60 | 60 | |
| | 54 | 68.8 | 66.7 | 90 | 90 | 60 | 60 | 60 | 60 | |
| | 60 | 61.9 | 60 | 81.6 | 90 | 60 | 60 | 60 | 60 | |
| | 68 5/8 | 54.1 | - | - | 90 | - | - | 55.1 | 55.1 | |

WALL SECTION 2 NOTES:

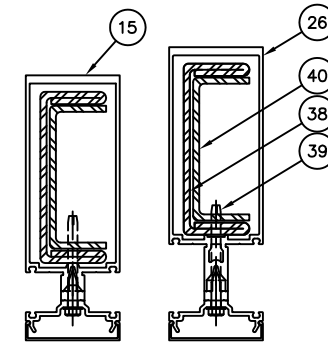
- SPLICE JOINTS, IF REQUIRED, ARE LOCATED AT BENDING MOMENT INFLECTION POINTS.
- LENGTH OF #38 STEEL REINFORCING IN SPAN = (SPAN LENGTH)/1.75
- STEEL REINFORCING IN SPAN IS CENTERED BETWEEN STEEL AT MID-SPAN ANCHORS, BETWEEN STEEL AT MID-SPAN ANCHOR AND SPLICE JOINT, OR BETWEEN MID-SPAN ANCHOR AND HEAD/SILL.
- LENGTH OF STEEL REINFORCING AT MID-SPAN ANCHORS = (SPAN LENGTH)/2.8.
- VALUES IN CHART ARE FOR MULLIONS WITH EQUAL SPANS. FOR MULLIONS WITH UNEQUAL SPANS, SEE THE MULTI-SPAN REQUIREMENTS ON SHEET 20.



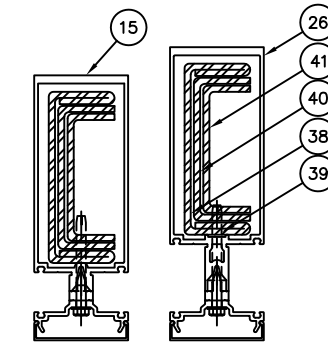
JAMB MULLION J2



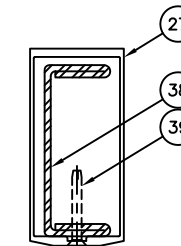
MULLION M2



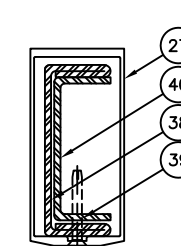
AT ANCHOR
MULLION M3
(#38 STEEL REINF IN SPAN)



AT ANCHOR
MULLION M4
(#38 STEEL REINF IN SPAN)



MULLION M7

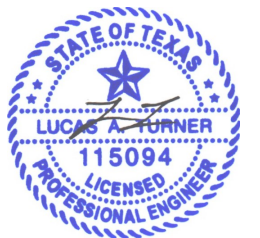


AT ANCHOR
MULLION M8
(#38 STEEL REINF IN SPAN)

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TBPE REG. #F-18075

2428 OLD NACHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
**1600 WALL
SYSTEM 1 & 2**

DWG:
1600-IR-TDI

SECTION:
4

SHEET:
17/42

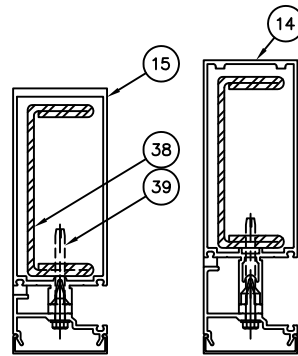
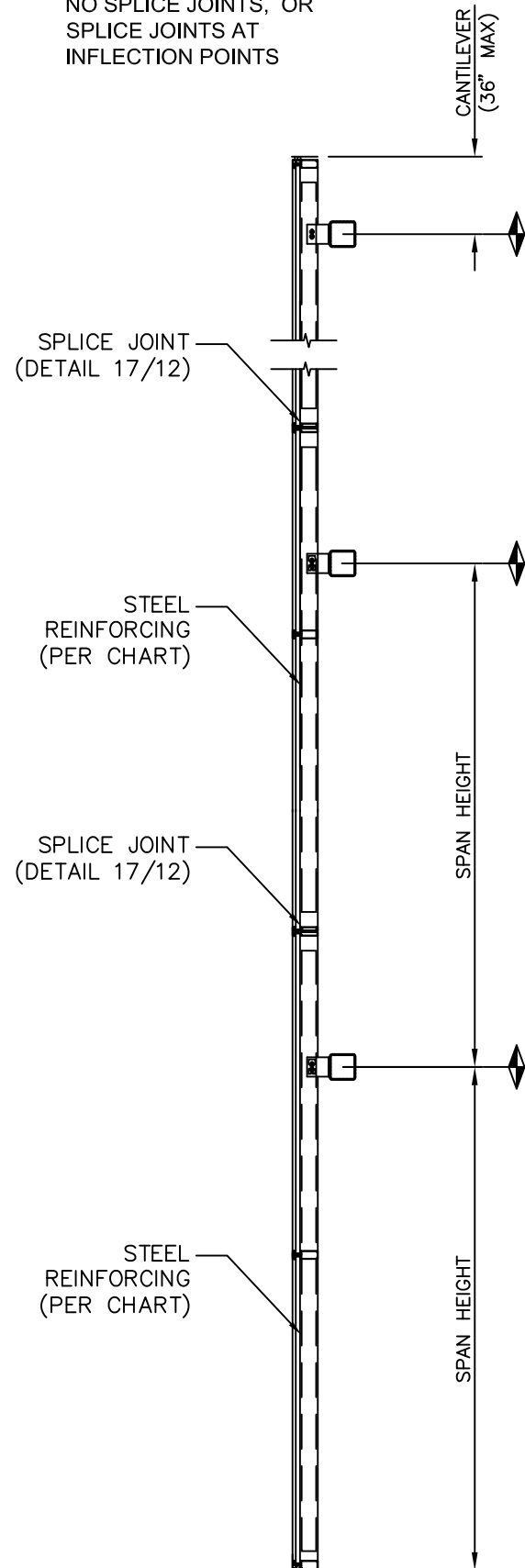
| REV.# | DATE |
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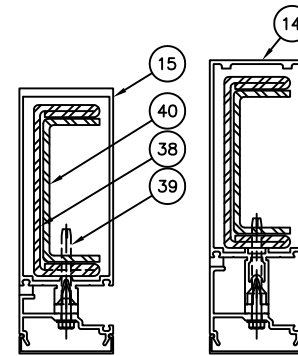
MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 3:

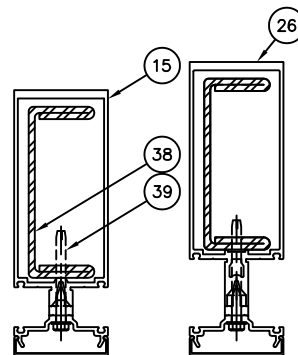
NO SPLICE JOINTS, OR
SPLICE JOINTS AT
INFLECTION POINTS



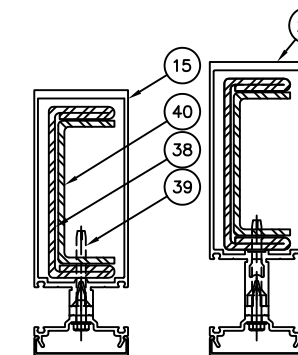
JAMB MULLION J2



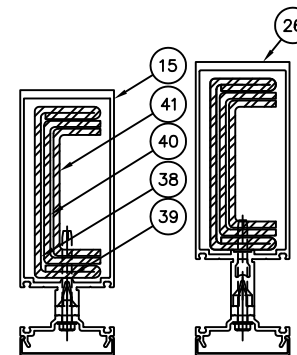
JAMB MULLION J3



MULLION M2



MULLION M3



MULLION M4

WALL SECTION 3 NOTES:

- SPLICE JOINTS, IF REQUIRED, ARE LOCATED AT BENDING MOMENT INFLECTION POINTS.
- VALUES IN CHART ARE FOR EQUAL SPANS. FOR UNEQUAL SPANS, SEE THE MULTI-SPAN LIMITATIONS ON SHEET 20.
- STEEL REINFORCING LENGTH = MULLION LENGTH - 24".

| MULTI-SPAN MULLION CHART - WALL SECTION 3 | | | | | | | |
|---|------------|----------------------------|----------|------------------|----------|------------|------|
| | | MAX. DESIGN PRESSURE (PSF) | | | | | |
| | | JAMB MULLION | | CAPTURED MULLION | | | |
| HEIGHT (in) | WIDTH (in) | J2 (+/-) | J3 (+/-) | M2 (+/-) | M3 (+/-) | M4 (+) (-) | |
| 144 | 62 | 71 | 71 | 71 | 71 | 71 | 90 |
| | 66 | - | 71 | 68.3 | 71 | 71 | 90 |
| | 73 | - | 65.1 | 61.7 | 71 | 71 | 90 |
| | 77 | - | 61.7 | 58.5 | 71 | 71 | 90 |
| | 84 | - | - | 53.6 | 67.9 | 71 | 86.7 |
| | 92 | - | - | - | 62 | 71 | 79.2 |
| 96 | - | - | - | - | 71 | 75.9 | |
| 156 | 57 1/2 | 71 | 71 | 71 | 71 | 71 | 90 |
| | 60 | - | 71 | 69.4 | 71 | 71 | 90 |
| | 67 | - | 65.3 | 62.1 | 71 | 71 | 90 |
| | 71 | - | 61.6 | 58.6 | 71 | 71 | 90 |
| | 78 | - | - | 53.3 | 67.6 | 71 | 86.3 |
| | 85 | - | - | - | 62 | 71 | 79.2 |
| 90 | - | - | - | - | 71 | 74.8 | |
| 96 | - | - | - | - | 70.1 | 70.1 | |
| 168 | 53 | 71 | 71 | 71 | 71 | 71 | 90 |
| | 62 1/2 | - | 64.9 | 62 | 71 | 71 | 90 |
| | 66 | - | 61.5 | 58.7 | 71 | 71 | 90 |
| | 72 | - | - | 53.8 | 68 | 71 | 86.8 |
| | 79 | - | - | - | 62 | 71 | 79.1 |
| | 84 | - | - | - | - | 71 | 74.4 |
| 90 | - | - | - | - | 69.4 | 69.4 | |
| 96 | - | - | - | - | 65.1 | 65.1 | |
| 180 | 49 1/2 | 71 | 71 | 71 | 71 | 71 | 90 |
| | 58 | - | 65.5 | 62.3 | 71 | 71 | 90 |
| | 61 | - | 62.3 | 59.2 | 71 | 71 | 90 |
| | 68 | - | - | 53.1 | 67.1 | 71 | 85.8 |
| | 74 | - | - | - | 61.7 | 71 | 78.1 |
| | 80 | - | - | - | - | 71 | 72.9 |
| 89 | - | - | - | - | 65.5 | 65.5 | |
| 187 | 48 | 71 | 71 | 71 | 71 | 71 | 90 |
| | 54 | - | 67.2 | 64 | 71 | 71 | 90 |
| | 56 | - | 64.8 | 61.7 | 71 | 71 | 90 |
| | 59 | - | 61.5 | 58.5 | 71 | 71 | 90 |
| | 66 | - | - | 52.3 | 66.5 | 71 | 85.1 |
| | 71 | - | - | - | 61.8 | 71 | 79.1 |
| 78 | - | - | - | - | 71 | 72 | |
| 86 | - | - | - | - | 65.3 | 65.3 | |
| 192 | 48 | - | 71 | 70.5 | 71 | 71 | 90 |
| | 54 | - | 65.6 | 62.6 | 71 | 71 | 90 |
| | 57 1/2 | - | 61.6 | - | 71 | 71 | 90 |
| | 69 | - | - | - | 62 | 71 | 79.3 |
| | 72 | - | - | - | - | 71 | 76 |
| | 78 | - | - | - | - | 70.1 | 70.1 |
| 84 | - | - | - | - | 65.1 | 65.1 | |
| 204 | 42 | - | 71 | 71 | 71 | 71 | 71 |
| | 48 | - | 69.6 | 63.4 | 71 | 71 | 71 |
| | 51 1/2 | - | 64.8 | 59.1 | 71 | 71 | 71 |
| | 54 | - | 61.8 | - | 71 | 71 | 71 |
| | 60 | - | - | - | 67.2 | 71 | 71 |
| | 65 | - | - | - | 62 | 71 | 71 |
| 72 | - | - | - | - | 67.8 | 67.8 | |
| 79 | - | - | - | - | 61.8 | 61.8 | |
| 216 | 36 | - | 71 | 71 | 71 | 71 | 71 |
| | 42 | - | 71 | 68.2 | 71 | 71 | 71 |
| | 48 | - | 63 | 59.7 | 71 | 71 | 71 |
| | 51 | - | 59.3 | - | 71 | 71 | 71 |
| | 61 | - | - | - | 59.7 | 71 | 71 |
| | 68 | - | - | - | - | 65 | 65 |
| 74 | - | - | - | - | 59.7 | 59.7 | |
| 231 | 36 | - | 71 | 70 | 71 | 71 | 71 |
| | 42 | - | 62.7 | 60 | 71 | 71 | 71 |
| | 45 1/2 | - | 57.6 | 55 | 69.9 | 71 | 71 |
| | 48 | - | 54.6 | - | 66.3 | 71 | 71 |
| | 57 3/4 | - | - | - | 55.1 | 66.5 | 66.5 |
| | 66 | - | - | - | - | 58.2 | 58.2 |
| 70 | - | - | - | - | 54.9 | 54.9 | |

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CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
4
SHEET:
18/42

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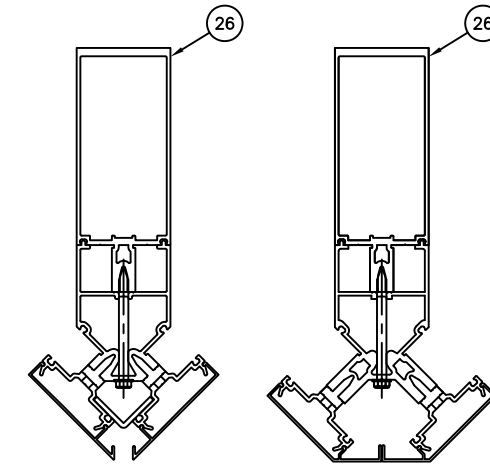
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CORNER MULLION LIMITATIONS

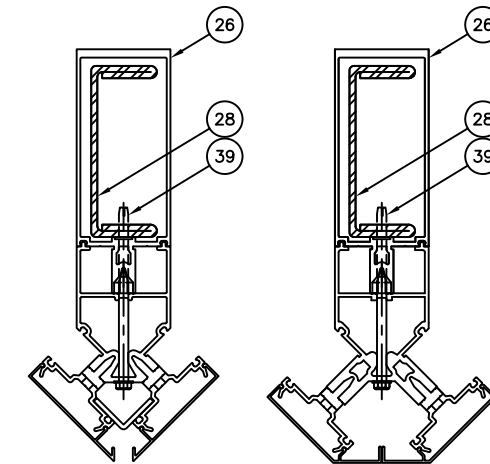
SINGLE AND MULTI-SPAN MULLIONS.

| SINGLE SPAN CORNER MULLION CHART | | | | |
|----------------------------------|------------|----------------------------|----------|----------|
| | | MAX. DESIGN PRESSURE (psf) | | |
| | | CORNER MULLIONS | | |
| HEIGHT (in) | WIDTH (in) | C3 (+/-) | C4 (+/-) | C7 (+/-) |
| 110 | 48 | 60 | 90 | 60 |
| | 54 | 60 | 90 | 60 |
| | 60 | 60 | 90 | 60 |
| | 66 | 60 | 90 | 60 |
| 147 | 48 | - | 90 | - |
| | 60 | - | 90 | - |
| | 64 | - | 90 | - |

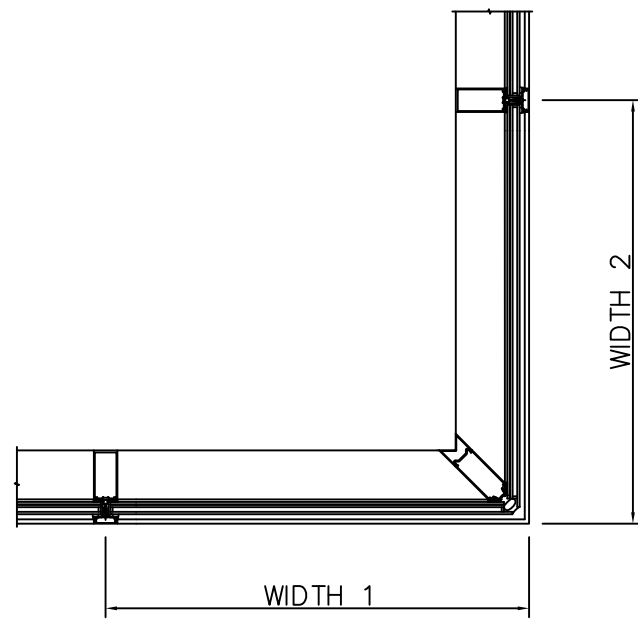
| MULTI-SPAN CORNER MULLION CHART | | | | | | | | | | | |
|---------------------------------|------------|----------------------------|----------|----------|----------|----------|--------------|------------|------------|------------|------------|
| | | MAX. DESIGN PRESSURE (PSF) | | | | | | | | | |
| | | CAPTURED MULLIONS | | | | | SSG MULLIONS | | | | |
| HEIGHT (in) | WIDTH (in) | C1 (+/-) | C2 (+/-) | C3 (+/-) | C4 (+/-) | C5 (+/-) | C6 (+) (-) | C6 (+) (-) | C7 (+) (-) | C7 (+) (-) | C7 (+) (-) |
| 114 | 64 | 90 | 90 | 90 | 90 | 60 | 60 | 74 | 60 | 74 | 60 |
| | 66 | 60 | 74 | 74 | 90 | 60 | 60 | 74 | 60 | 74 | 60 |
| | 84 | - | 74 | 74 | 90 | - | 60 | 74 | 60 | 74 | 60 |
| 118 | 64 | 60 | 74 | 74 | 90 | 60 | 60 | 74 | 60 | 74 | 60 |
| | 74 | - | 74 | 74 | 90 | - | 60 | 74 | 60 | 74 | 60 |
| | 84 | - | - | 60 | 90 | - | - | - | 60 | 60 | 60 |
| 132 | 66 1/2 | - | 74 | 74 | 90 | - | 60 | 74 | 60 | 74 | 60 |
| | 81 | - | - | 60 | 90 | - | - | - | 60 | 60 | 60 |
| 144 | 74 | - | - | 60 | 90 | - | - | - | 60 | 60 | 60 |
| 156 | 68 | - | - | 60 | 90 | - | - | - | 60 | 60 | 60 |
| 168 | 64 | - | - | 60 | 90 | - | - | - | 60 | 60 | 60 |



CORNER MULLION C1



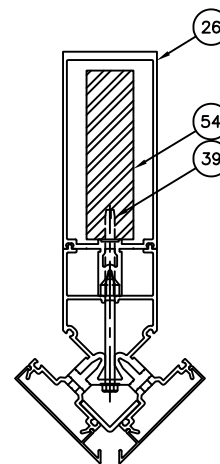
CORNER MULLION C2



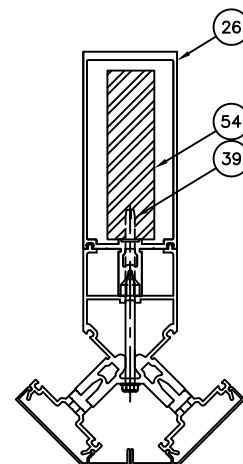
$$\text{CORNER MULLION SPACING} = \frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$$

MULTI-SPAN CORNER NOTES:

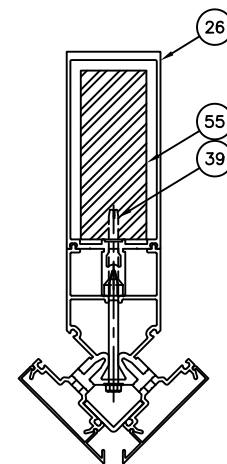
1. SIZES AND PRESSURES LISTED ARE FOR MULLIONS WITH EQUAL SPANS. FOR MULLIONS WITH UNEQUAL SPANS, SEE THE MULTI-SPAN MULLION LIMITATIONS LISTED ON SHEET 20.
2. WIDTHS AT CORNER MULLIONS WITH HORIZONTAL SPLICES ARE LIMITED TO 64" MAX.
3. SIZES AND PRESSURES LISTED ARE FOR ALL WALL SECTIONS ON SHEETS 16-18.



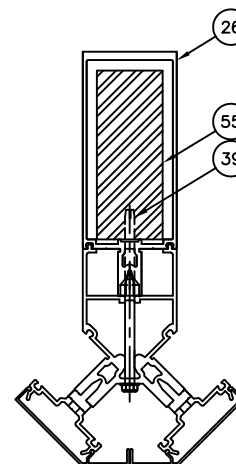
CORNER MULLION C3



CORNER MULLION C4



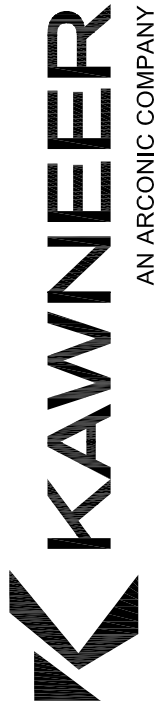
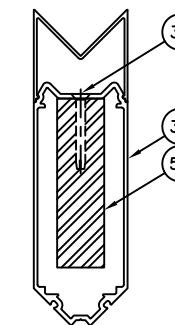
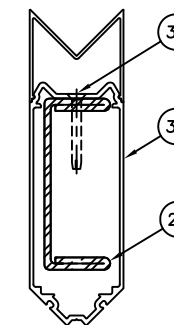
CORNER MULLION C5



CORNER MULLION C6



CORNER MULLION C7



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PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
4

SHEET:
19/42

| | |
|-------------------|-------|
| 07/01/21 | DATE |
| 1ST SUBMITTAL | REV.# |
| PRINTS ISSUED FOR | |

MULTI-SPAN MULLION LIMITATIONS

ALL WALL SECTIONS:

MULTI-SPAN MULLION LIMITATIONS

VERTICAL MULLIONS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

CAPTURED MULLIONS WITH WINDLOADS \leq +/- 71 psf:

1. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 231 in
2. MAX DEFLECTION = L/180.
3. MAX TRIB. AREA = 112 ft²

CAPTURED MULLIONS WITH WINDLOADS \leq +/- 90 psf:

1. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 168 in
2. MAX DEFLECTION = L/180.
3. MAX TRIB. AREA = 80 ft²

ALL CAPTURED MULLIONS:

4. MAX BENDING MOMENTS:
 - MID-SPAN: 60,918 in-lb (MULLION M1)
 - 81,184 in-lb (MULLION M2)
 - 100,477 in-lb (MULLION M3)
 - 121,716 in-lb (MULLION M4)
 - AT ANCHORS: 60,918 in-lb (MULLION M1)
 - 116,277 in-lb (MULLION M2)
 - 147,640 in-lb (MULLION M3)
 - 178,848 in-lb (MULLION M4)
5. MAX WINDLOAD REACTIONS:
 - AT HEAD/SILL F/T-ANCHOR: 3367 lb.
 - AT MID-SPAN ANCHOR: 4363 lb (NO STEEL)
 - 5621 lb (M2 STEEL)
 - 7138 lb (M3 STEEL)
 - 9119 lb (M4 STEEL)

SSG MULLIONS WITH WINDLOADS \leq +60/-74 psf:

1. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 132 in
2. MAX DEFLECTION = L/180.
3. MAX TRIB. AREA = 77 ft²

SSG MULLIONS WITH WINDLOADS \leq +/-60 psf:

2. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 168 in
3. MAX DEFLECTION = L/180.
4. MAX TRIB. AREA = 70 ft²

ALL SSG MULLIONS:

4. MAX BENDING MOMENTS:
 - MID-SPAN: 36,468 in-lb (MULLION M6)
 - 72,731 in-lb (MULLION M7)
 - 72,731 in-lb (MULLION M7)
 - AT ANCHORS: 38,267 in-lb (MULLION M6)
 - 92,687 in-lb (MULLION M7)
6. MAX WINDLOAD REACTIONS:
 - AT HEAD/SILL F/T-ANCHOR: 3367 lb.
 - AT MID-SPAN ANCHOR: 4363 lb (NO STEEL)
 - 5621 lb (M7 STEEL)
 - 7138 lb (M8 STEEL)

FREE JAMB MULLIONS:

1. MAX WINDLOADS = +/-71 psf
2. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 231 in
3. MAX DEFLECTION = L/180. (SEE NOTE #X)
4. MAX TRIB. AREA = 40.5 ft²
5. MAX BENDING MOMENTS:
 - MID-SPAN: 21,902 in-lb (MULLION J1)
 - 41,501 in-lb (MULLION J2)
 - 41,501 in-lb (MULLION J3)
 - AT ANCHORS: 52,812 in-lb (MULLION J1)
 - 52,801 in-lb (MULLION J2)
 - 61,342 in-lb (MULLION J3)
6. MAX WINDLOAD REACTIONS:
 - AT HEAD/SILL F/T-ANCHOR: 1092 lb.
 - AT MID-SPAN ANCHOR: 2714 lb (NO STEEL)
 - 2966 lb (WITH STEEL)

JAMB MULLIONS THAT EXCEED THE VALUES LISTED ABOVE MUST BE ANCHORED TO THE STRUCTURE PER DETAIL 11/8 AND THE JAMB ANCHOR CHARTS ON SHEET 38.

CAPTURED CORNER MULLIONS:

1. MAX WINDLOADS = +/-90 psf
2. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 168 in
3. MAX DEFLECTION = L/180.
4. MAX TRIB. AREA = 74.6 ft²
5. MAX BENDING MOMENTS:
 - MID-SPAN: 21,902 in-lb (MULLION C1)
 - 22,517 in-lb (MULLION C2)
 - 36,580 in-lb (MULLION C3)
 - 54,880 in-lb (MULLION C4)
 - AT ANCHORS: 52,812 in-lb (MULLION C1)
 - 54,538 in-lb (MULLION C2)
 - 72,994 in-lb (MULLION C3)
 - 109,510 in-lb (MULLION C4)
6. MAX WINDLOAD REACTIONS:
 - AT HEAD/SILL F/T-ANCHOR: 1784 lb.
 - AT MID-SPAN ANCHOR: 1963 lb (NO STEEL)
 - 3943 lb (C2 STEEL)
 - 4109 lb (C3 STEEL)
 - 6164 lb (C4 STEEL)

SSG CORNER MULLIONS:

1. MAX WINDLOADS = +60/-74 psf
2. MAX ANCHOR-TO-ANCHOR SPAN HEIGHT = 168 in
3. MAX DEFLECTION = L/180.
4. MAX TRIB. AREA = 74.6 ft²
5. MAX BENDING MOMENTS:
 - MID-SPAN: 23,112 in-lb (MULLION C1)
 - 22,517 in-lb (MULLION C2)
 - 36,580 in-lb (MULLION C3)
 - AT ANCHORS: 23,560 in-lb (MULLION C1)
 - 54,538 in-lb (MULLION C2)
 - 72,994 in-lb (MULLION C3)
6. MAX WINDLOAD REACTIONS:
 - AT HEAD/SILL F/T-ANCHOR: 1070 lb.
 - AT MID-SPAN ANCHOR: 3053 lb (NO STEEL)
 - 3943 lb (C2 STEEL)
 - 4109 lb (C3 STEEL)



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TBPE REG. #F-18075

2428 OLD NATCHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-TDI

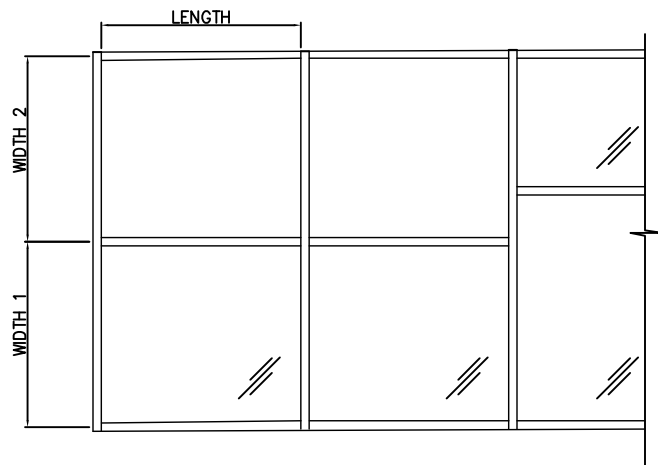
SECTION:
4

SHEET:
20/42

| REV.# | DATE |
|-------|----------|
| 1 | 07/01/21 |

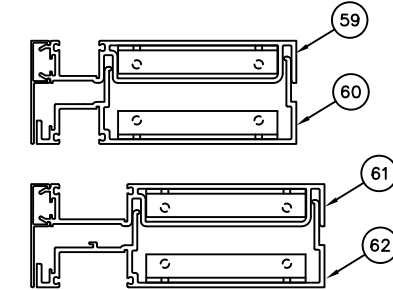
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HORIZONTAL MULLION LIMITATIONS

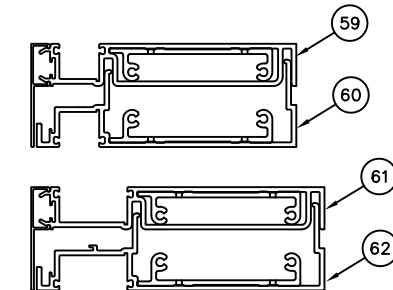


$$\text{HORIZONTAL MULLION SPACING} = \frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$$

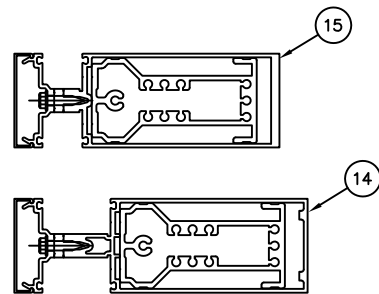
| | | HORIZONTAL MULLION CHART | | | | | | | |
|-------------|------------|----------------------------------|----------|----------|----------|----------|----------|----------|--|
| | | MAX. DESIGN PRESSURE (psf) | | | | | | | |
| | | INTERMEDIATE HORIZONTAL MULLIONS | | | | | | | |
| LENGTH (in) | WIDTH (in) | H1 (+/-) | H2 (+/-) | H3 (+/-) | H4 (+/-) | H5 (+/-) | H6 (+/-) | H7 (+/-) | |
| 39 1/2 | 40 1/8 | 127 | 127 | 90 | 127 | 90 | 90 | 90 | |
| | 69 | 127 | 127 | 90 | 90 | 90 | 90 | 90 | |
| | 84 | 90 | 127 | 90 | 90 | 90 | 90 | 90 | |
| | 96 | 90 | 127 | 90 | 90 | 90 | 90 | 90 | |
| 58 1/2 | 46 3/4 | 127 | 127 | 90 | 90 | 90 | 90 | 90 | |
| | 63 | 90 | 127 | 90 | 90 | 90 | 90 | 90 | |
| | 69 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | |
| | 72 | 90 | 90 | 90 | 90 | 90 | - | - | |
| 68 1/4 | 92 | 90 | 90 | - | 90 | 90 | - | - | |
| | 40 1/8 | 127 | 127 | 90 | 90 | - | 90 | 90 | |
| | 54 | 90 | 127 | 90 | 90 | - | 90 | 90 | |
| | 59 1/2 | 90 | 127 | 90 | 90 | - | 90 | 90 | |
| 73 3/4 | 61 1/2 | 90 | 90 | 90 | 90 | - | - | - | |
| | 66 | 83.8 | 83.8 | - | 83.8 | - | - | - | |
| | 72 | 83.7 | 83.7 | - | 83.7 | - | - | - | |
| | 79 | 83.7 | 83.7 | - | 83.7 | - | - | - | |
| 81 1/2 | 42 | 90 | 127 | 90 | 90 | - | 90 | 90 | |
| | 48 | 90 | 127 | 89.1 | 90 | - | 90 | 90 | |
| | 50 | 90 | 127 | 87.3 | 90 | - | 90 | 90 | |
| | 52 5/8 | 90 | 90 | 85.2 | 90 | - | 90 | 90 | |
| 92 1/4 | 55 1/4 | 90 | 90 | 83.5 | 90 | - | 82 | 82 | |
| | 57 | 90 | 90 | 82.5 | 90 | - | - | - | |
| | 66 | 73.6 | 73.6 | - | 73.6 | - | - | - | |
| | 73 1/4 | 72.8 | 72.8 | - | 72.8 | - | - | - | |
| 98 1/2 | 42 | 83.7 | 127 | 83.7 | 83.7 | - | 82.3 | 82.3 | |
| | 45 | 80.1 | 127 | 80.1 | 80.1 | - | 78.7 | 78.7 | |
| | 50 | 75.3 | 75.3 | 75.3 | 75.3 | - | 74 | 74 | |
| | 51 5/8 | 74 | 74 | 74 | 74 | - | - | - | |
| 39 1/2 | 54 | 66.2 | 66.2 | - | 66.2 | - | - | - | |
| | 60 | 63.1 | 63.1 | - | 63.1 | - | - | - | |
| | 66 | 60.9 | 60.9 | - | 60.9 | - | - | - | |
| | 40 1/8 | 67.3 | 127 | - | 67.3 | - | - | - | |
| 68 1/4 | 48 | 59.5 | 59.5 | - | 59.5 | - | - | - | |
| | 54 | 55.3 | 55.3 | - | 55.3 | - | - | - | |
| | 58 1/2 | 52.9 | 52.9 | - | 52.9 | - | - | - | |
| | 42 | 59.9 | 59.9 | - | 59.9 | - | - | - | |
| 73 3/4 | 48 | 57.6 | 57.6 | - | 57.6 | - | - | - | |
| | 54 7/8 | 50 | 50 | - | 50 | - | - | - | |



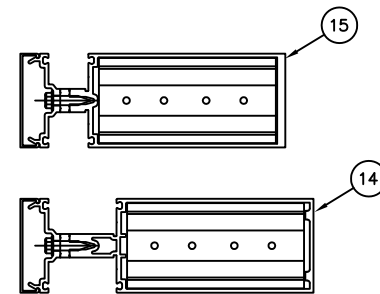
HORIZONTAL MULLION H7
(SPLICE AT CORNER)



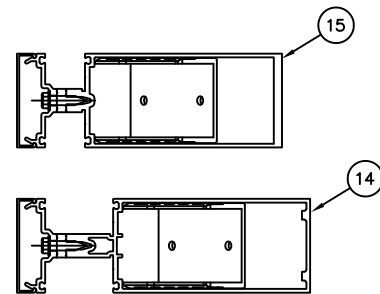
HORIZONTAL MULLION H6
(SPLICE HORIZONTAL)



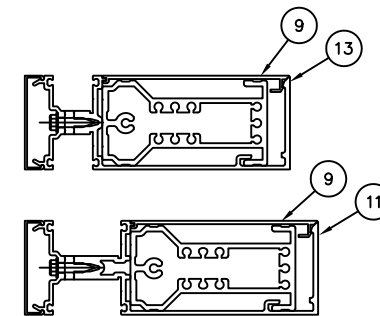
HORIZONTAL MULLION H1
(TYPICAL HORIZONTAL)



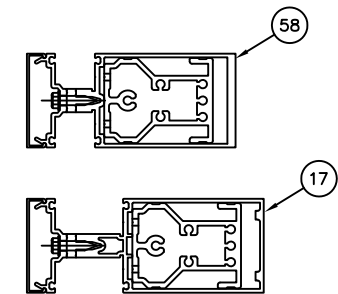
HORIZONTAL MULLION H2
(WITH HIGH PRESSURE SHEAR BLOCK)



HORIZONTAL MULLION H3
(AT CORNER MULLION)



HORIZONTAL MULLION H4
(LAST BAY)

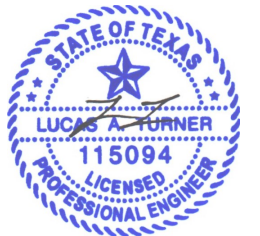


HORIZONTAL MULLION H5
(SHALLOW HORIZONTAL)

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10/27/2021
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TBPE REG. #F-18075

2428 OLD NATCHEZ
TRACE TRL.
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PH. 941-380-1574

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
4

SHEET:
21/42

| REV.# | DATE |
|-------|----------|
| 1 | 07/01/21 |
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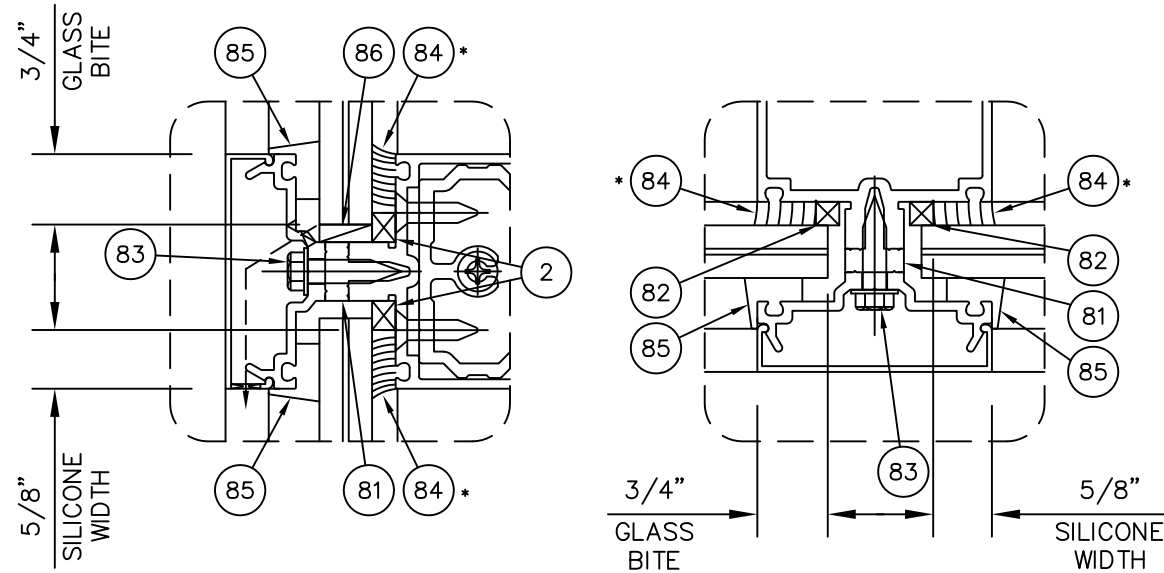
LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

GLASS TYPE 1 – 1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED

GLASS TYPE 2 – 1/4" HEAT STRENGTHENED
0.090" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED

GLASS TYPE 3 – 1/4" HEAT STRENGTHENED
0.100" SAFLEX HP INTERLAYER
1/4" HEAT STRENGTHENED

GLASS TYPE 4 – 1/4" HEAT STRENGTHENED
0.090" KURARAY SENTRYGLAS
1/4" HEAT STRENGTHENED



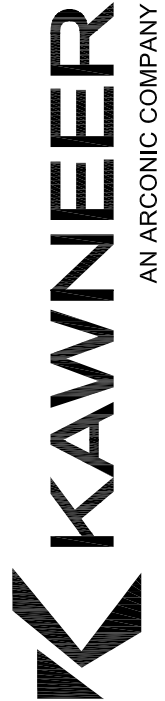
*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

SEE SHEET 39 FOR GLAZING MATERIALS

| GLASS CHART | | | | | | | | | | | | |
|---|----------------|----|----|----|----|----|----|----|----|----|----|--------|
| GLASS TYPES 1 & 2 (LM/SMI) | | | | | | | | | | | | |
| TESTED DLO'S = 58 1/2"x93 1/2" (65 psf), 73 3/4"x54 5/8" (65 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 38 | 39 | 42 | 45 | 48 | 52 | 60 | 66 | 72 | 78 | 84 | 93 1/2 |
| 58 1/2 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | - |
| 70 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | - | - |
| 76 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | - | - | - |
| 82 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | - | - | - | - |
| 91 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | - | - | - | - | - |
| 105 | 65 | 65 | 65 | 65 | 65 | 65 | - | - | - | - | - | - |
| 114 | 65 | 65 | 65 | 65 | 65 | - | - | - | - | - | - | - |
| 120 | 65 | 65 | 65 | 65 | - | - | - | - | - | - | - | - |
| 130 | 65 | 65 | 65 | - | - | - | - | - | - | - | - | - |
| 138 | 65 | 65 | - | - | - | - | - | - | - | - | - | - |
| 144 | 65 | - | - | - | - | - | - | - | - | - | - | - |

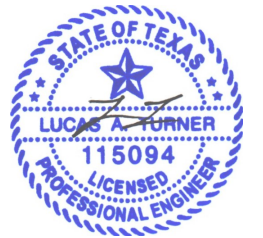
| GLASS TYPE 3 (LM/SMI) | | | | | | | | | | | | |
|---|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 70 1/2"x94 1/2" (+70/-90 psf struct, +90/-100 cycle) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 38 | 39 | 42 | 45 | 48 | 52 | 60 | 66 | 70 1/2 | 78 | 84 | 93 1/2 |
| 58 1/2 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +85/-100 |
| 71 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +73/-94 |
| 74 1/4 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +75/-97 | +70/-90 |
| 79 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +72/-95 | - |
| 85 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +75/-99 | +70/-90 |
| 94 1/2 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +82/-100 | +75/-96 | +70/-90 | - | - | - |
| 101 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +89/-100 | +76/-98 | +70/-90 | - | - | - | - |
| 111 | +90/-100 | +90/-100 | +90/-100 | +90/-100 | +87/-100 | +81/-100 | +70/-90 | - | - | - | - | - |
| 120 | +90/-100 | +90/-100 | +90/-100 | +84/-100 | +79/-100 | +75/-97 | - | - | - | - | - | - |
| 128 | +90/-100 | +90/-100 | +86/-100 | +80/-100 | +75/-97 | +70/-90 | - | - | - | - | - | - |
| 138 | +88/-100 | +86/-100 | +80/-100 | +74/-96 | +70/-90 | - | - | - | - | - | - | - |
| 144 | +83/-100 | +80/-100 | +75/-96 | +70/-90 | - | - | - | - | - | - | - | - |

| GLASS TYPE 4 (LM/SMI) | | | | | | | | | | | | |
|---|----------------|----|----|----|----|----|--------|----|----|----|----|--------|
| TESTED DLO'S = 58 1/2"x93 1/2" (90 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 38 | 39 | 42 | 45 | 48 | 54 | 58 1/2 | 66 | 72 | 78 | 84 | 93 1/2 |
| 58 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 65 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - |
| 70 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - |
| 76 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - |
| 83 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - |
| 93 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - |
| 101 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - |
| 114 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - |
| 121 | 90 | 90 | 90 | - | - | - | - | - | - | - | - | - |
| 130 | 90 | 90 | 90 | - | - | - | - | - | - | - | - | - |
| 140 | 90 | 90 | - | - | - | - | - | - | - | - | - | - |
| 144 | 90 | - | - | - | - | - | - | - | - | - | - | - |



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TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
5

SHEET:
22/42

| | |
|---------------|-------------------|
| 07/01/21 | DATE |
| REV.# | REV.# |
| 1ST SUBMITTAL | PRINTS ISSUED FOR |

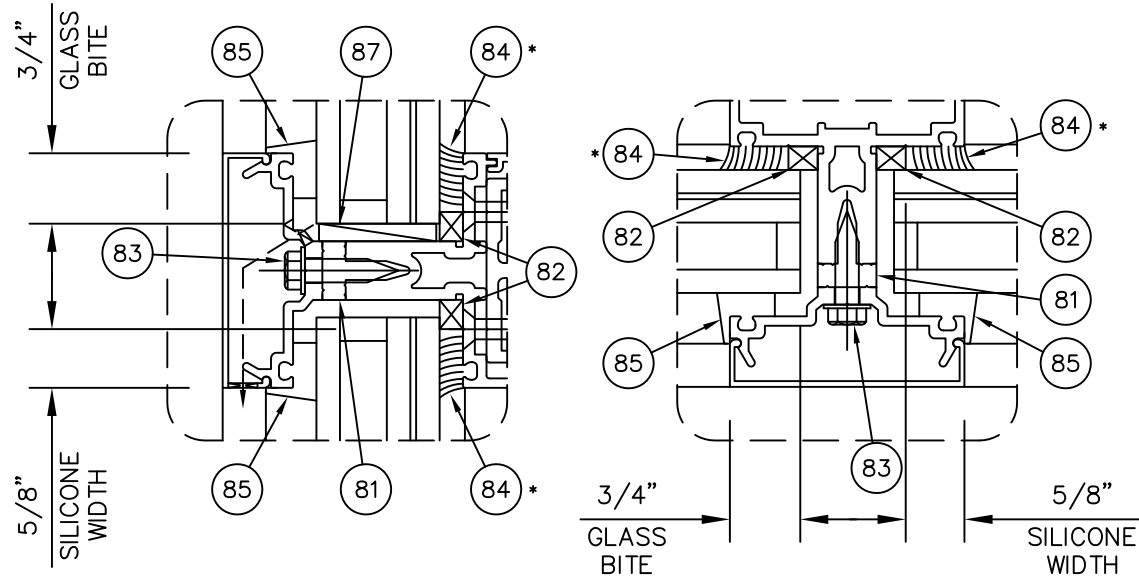
LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

GLASS TYPE 5 - 1/4" H.S. or TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED

GLASS TYPE 6 - 1/4" H.S. or TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.090" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED

GLASS TYPE 7 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.090" KURARAY SENTRYGLAS
1/4" HEAT STRENGTHENED

GLASS TYPE 8 - 1/4" H.S. or TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.075" SAFLEX CP INTERLAYER
1/4" HEAT STRENGTHENED



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

SEE SHEET 39 FOR GLAZING MATERIALS

| GLASS CHART | | | | | | | | | | | | |
|---|----------------|----|----|----|----|----|--------|----|----|----|----|--------|
| GLASS TYPES 5 & 6 (LM/SMI) | | | | | | | | | | | | |
| TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 73 3/4"x54 5/8" (90 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 38 | 39 | 42 | 45 | 48 | 52 | 58 1/2 | 66 | 72 | 78 | 84 | 93 1/2 |
| 58 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 65 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - |
| 70 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - |
| 76 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - |
| 82 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - |
| 93 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - |
| 105 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - |
| 114 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - |
| 120 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - | - |
| 130 | 90 | 90 | 90 | - | - | - | - | - | - | - | - | - |
| 138 | 90 | 90 | - | - | - | - | - | - | - | - | - | - |
| 144 | 90 | - | - | - | - | - | - | - | - | - | - | - |

| GLASS TYPE 7 (LM/SMI) | | | | | | | | | | | | |
|--|----------------|-----|-----|--------|--------|-----|-----|--------|-----|-----|----|--------|
| TESTED DLO'S = 98 1/2"x70 1/2" (50 psf), 60"x94 3/4" (110 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 39 | 43 | 48 | 52 1/2 | 57 1/2 | 60 | 64 | 70 1/2 | 73 | 78 | 90 | 98 1/2 |
| 70 1/2 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | 50 |
| 72 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | - |
| 77 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | 50 | - |
| 80 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | 50 | - | - |
| 88 1/2 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | 50 | 50 | - | - |
| 94 3/4 | 110 | 110 | 110 | 110 | 110 | 110 | 50 | 50 | 50 | - | - | - |
| 98 1/2 | 110 | 110 | 110 | 110 | 110 | 50 | 50 | 50 | - | - | - | - |
| 102 | 110 | 110 | 110 | 110 | 50 | 50 | 50 | - | - | - | - | - |
| 108 | 110 | 110 | 110 | 110 | 50 | 50 | 50 | - | - | - | - | - |
| 115 | 110 | 110 | 110 | 50 | 50 | 50 | - | - | - | - | - | - |
| 118 | 110 | 110 | 110 | 50 | 50 | - | - | - | - | - | - | - |
| 132 | 110 | 110 | 50 | 50 | - | - | - | - | - | - | - | - |
| 144 | 110 | 50 | 50 | - | - | - | - | - | - | - | - | - |

| GLASS TYPE 8 (LM/SMI) | | | | | | | | | | | | |
|--|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TESTED DLO'S = 58 1/2"x67" (+100/-130 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 36 | 39 | 42 | 45 | 48 | 52 | 58 1/2 | 60 | 66 | 72 | 81 | 93 1/2 |
| 41 1/2 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 |
| 48 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - |
| 54 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - |
| 60 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - |
| 66 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - | - |
| 67 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - | - | - |
| 75 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - | - | - | - |
| 81 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - | - | - | - | - |
| 87 | +100/-130 | +100/-130 | +100/-130 | +100/-130 | - | - | - | - | - | - | - | - |
| 93 | +100/-130 | +100/-130 | - | - | - | - | - | - | - | - | - | - |
| 100 | +100/-130 | - | - | - | - | - | - | - | - | - | - | - |
| 108 | +100/-130 | - | - | - | - | - | - | - | - | - | - | - |

GLAZING NOTES:

- SETTING BLOCKS 86 AND 87 ARE INSTALLED (2) PER LITE.

KAWNEER
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10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

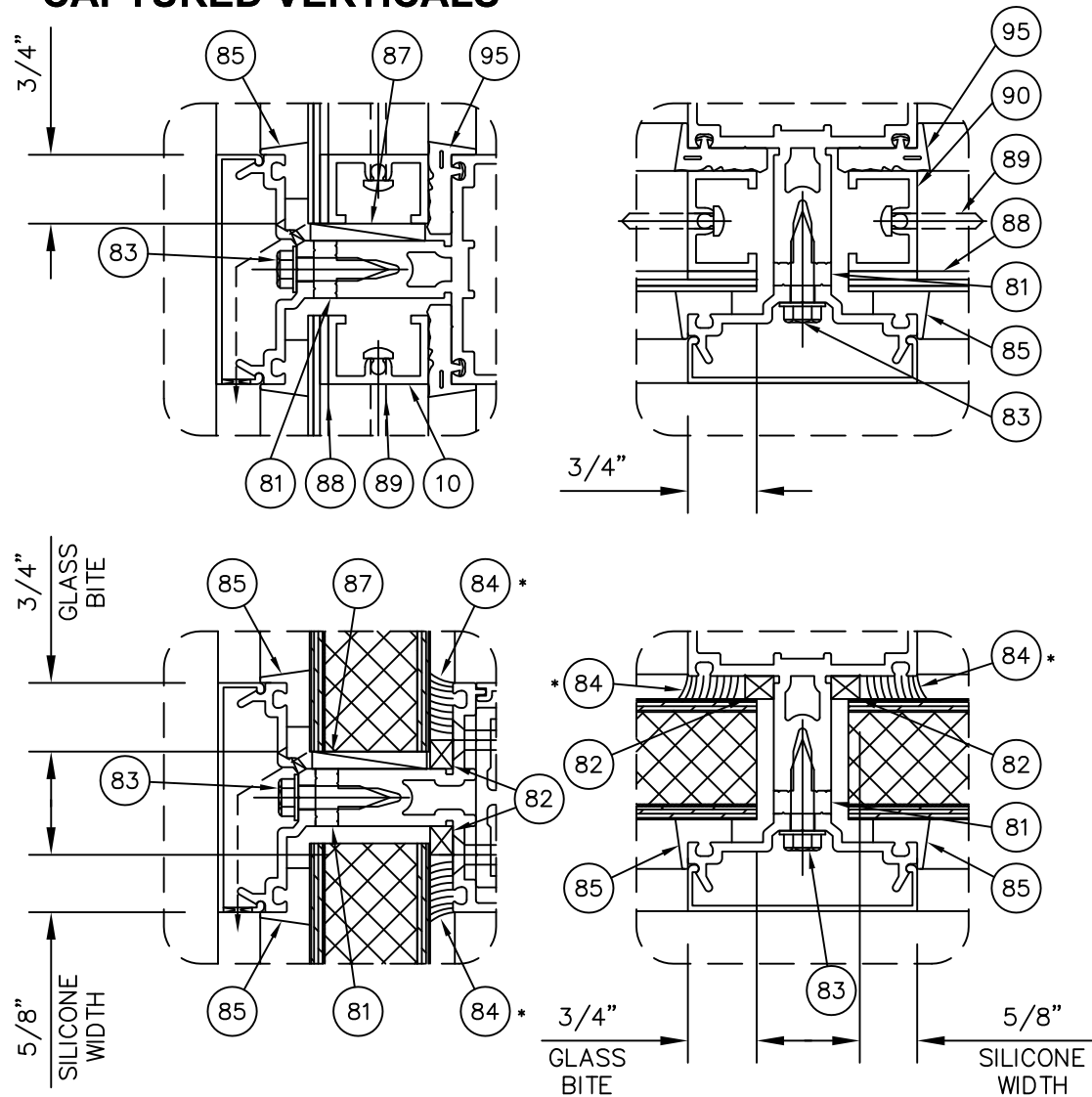
2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
5
SHEET:
23/42

PH: (770) 449-5555
WWW.KAWNEER.COM
555 GUTHRIDGE COURT
NORCROSS, GA 30092

07/01/21 DATE
REV.#
1ST SUBMITTAL
PRINTS ISSUED FOR

LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS



REYNOBOND ACM PANEL:
 0.130" REYNOBOND ACM PANEL
 0.090"x3/4" 3M VHB GLAZING TAPE
 3/4"x1.093" ALUMINUM CHANNEL

NOTE - #90 REINFORCING CHANNELS ARE REQUIRED, TAPED TO THE PANEL ACROSS THE SHORT DIMENSION WITH #88 GLAZING TAPE, SPACED 23 7/8" MAX. O.C.

MAPESHIELD PANEL:
 26 Ga. ALUMINUM SKIN
 1/8" TEMPERED HARDBOARD
 24 Ga. GALVANIZED STEEL
 3/4" FOAM CORE
 1/8" TEMPERED HARDBOARD
 26 GA. ALUMINUM SKIN

1/8" BRAKE METAL PANEL:
 1/8" ALUMINUM BRAKE METAL

| PANEL SIZE/PRESSURE CHART | | | | |
|----------------------------|--------------------|---------------------|-----------------------------|---------------------------|
| PANEL TYPE | MAX DLO WIDTH (in) | MAX DLO HEIGHT (in) | MAX AREA (ft ²) | MAX DESIGN PRESSURE (psf) |
| REYNOBOND PANEL | 57 1/2 | 94 3/4 | 38.0 | +/-80 |
| MAPESHIELD PANEL | 58 1/2 | 116 1/2 | 47.3 | +/-75 |
| 1/8" ALUM BRAKEMETAL PANEL | 21 7/8 | 144 | 21.9 | +/-71 |

PANEL NOTES:
 1. HORIZONTAL AND VERTICAL DLO DIMENSIONS MAY BE TRANSPOSED.
 2. SETTING BLOCK #81 IS INSTALLED (2) PER LITE.

*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

SEE SHEET 39 FOR GLAZING MATERIALS

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 TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
 CAMDEN, TN 38320
 PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
5

SHEET:
24/42

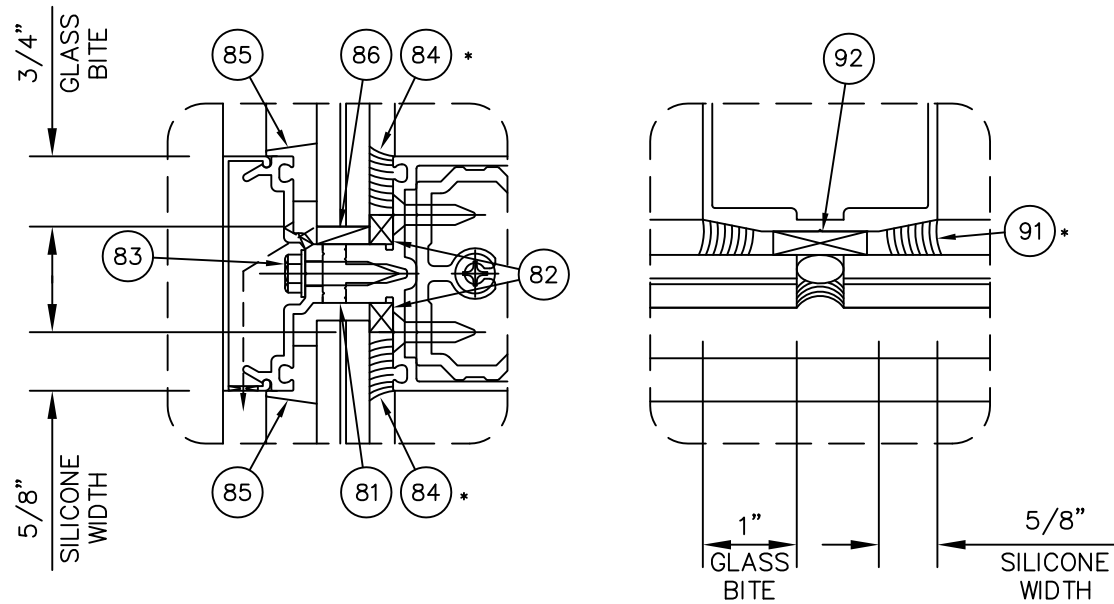
PH: (770) 449-5555
 WWW.KAWNEER.COM

555 GUTHRIDGE COURT
 NORCROSS, GA 30092

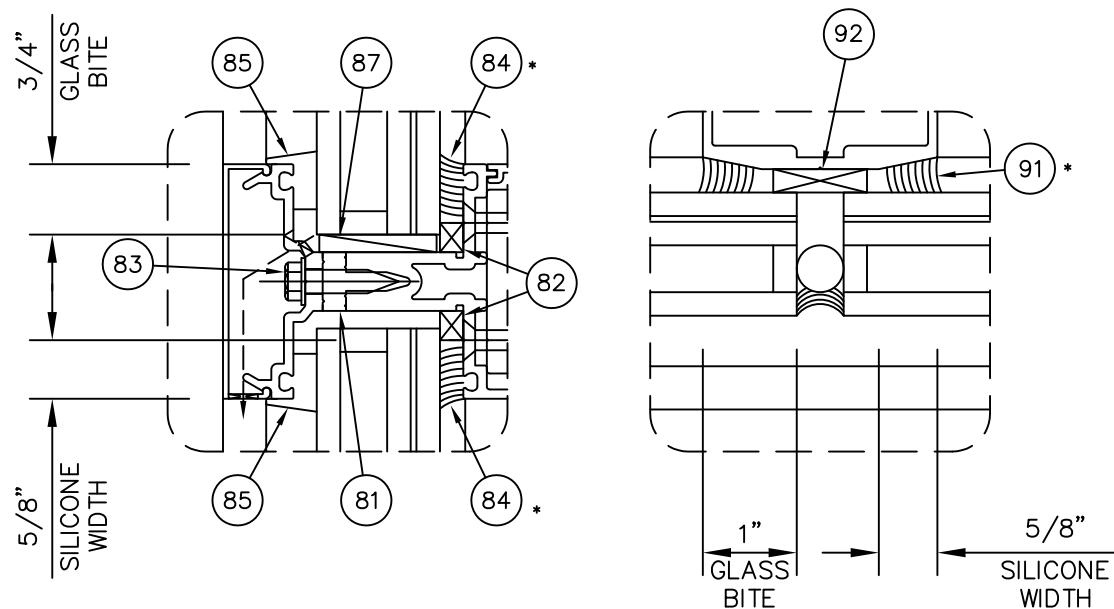
| REV.# | DATE |
|-------|----------|
| 1 | 07/01/21 |

LARGE AND SMALL MISSILE GLAZING SSG VERTICALS

GLASS TYPE 9 - 1/4" HEAT STRENGTHENED
0.090" KURARAY SENTRYGLAS
1/4" HEAT STRENGTHENED



GLASS TYPE 10 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.100" SAFLEX HP INTERLAYER
1/4" HEAT STRENGTHENED



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATED GLASS UNIT MANUFACTURERS.

GLASS CHART

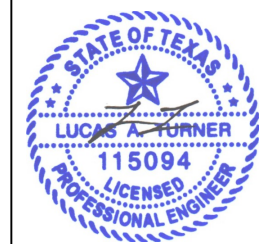
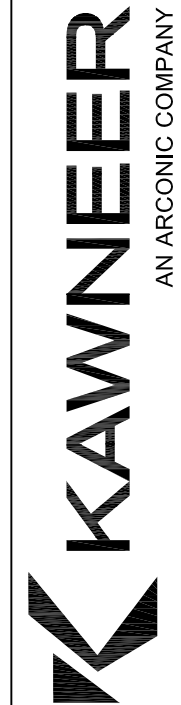
| GLASS TYPE 9 (LMI/SMI) | | | | | | | | | | | |
|--|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| TESTED DLO'S = 81 1/2"x30" (+60/-74 psf) | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | |
| | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 81 1/2 |
| 30 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 |
| 31 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | - |
| 33 1/2 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | - | - |
| 36 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | - | - | - |
| 39 1/2 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | - | - | - | - |
| 43 1/2 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | +60/-74 | - | - | - | - | - |
| 48 1/2 | +60/-74 | +60/-74 | +60/-74 | +60/-72 | +60/-71 | - | - | - | - | - | - |
| 54 1/4 | +60/-74 | +60/-74 | +60/-74 | +60/-72 | - | - | - | - | - | - | - |
| 62 1/2 | +60/-74 | +60/-74 | +60/-74 | - | - | - | - | - | - | - | - |
| 72 1/2 | +60/-74 | +60/-74 | - | - | - | - | - | - | - | - | - |
| 81 1/2 | +60/-74 | - | - | - | - | - | - | - | - | - | - |

| GLASS TYPE 10 (LMI/SMI) | | | | | | | | | | | |
|--|----------------|----|----|----|--------|------|------|------|------|------|--------|
| TESTED DLO'S = 57 1/2"x93 1/2" (+/-60 psf) | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | |
| | 36 | 42 | 48 | 54 | 57 1/2 | 60 | 66 | 72 | 78 | 84 | 93 1/2 |
| 57 1/2 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| 64 | 60 | 60 | 60 | 60 | 60 | 57.5 | 53.9 | 53.9 | 53.9 | 53.9 | - |
| 68 | 60 | 60 | 60 | 60 | 60 | 57.5 | 52.3 | 50.7 | 50.7 | - | - |
| 74 | 60 | 60 | 60 | 60 | 60 | 57.5 | 52.3 | 47.9 | - | - | - |
| 81 | 60 | 60 | 60 | 60 | 60 | 57.5 | 52.3 | - | - | - | - |
| 89 | 60 | 60 | 60 | 60 | 60 | 57.5 | - | - | - | - | - |
| 93 1/2 | 60 | 60 | 60 | 60 | 60 | - | - | - | - | - | - |
| 99 | 60 | 60 | 60 | 60 | - | - | - | - | - | - | - |
| 112 | 60 | 60 | 60 | - | - | - | - | - | - | - | - |
| 128 | 60 | 60 | - | - | - | - | - | - | - | - | - |
| 144 | 60 | - | - | - | - | - | - | - | - | - | - |

GLAZING NOTES:

- SETTING BLOCKS 86 AND 87 ARE INSTALLED (2) PER LITE.

SEE SHEET 39 FOR GLAZING MATERIALS



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

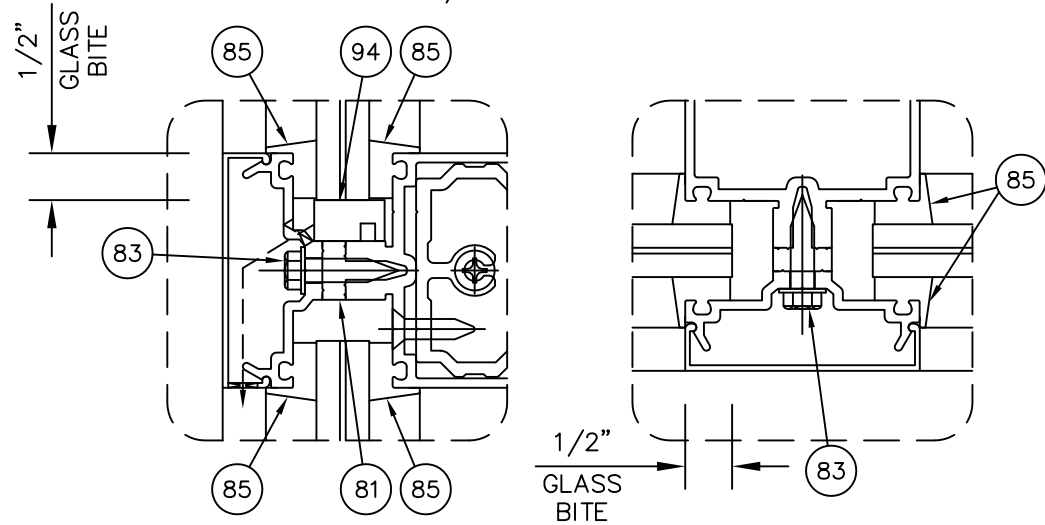
PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
5
SHEET:
25/42

PH: (770) 449-5555
WWW.KAWNEER.COM
555 GUTHRIDGE COURT
NORCROSS, GA 30092

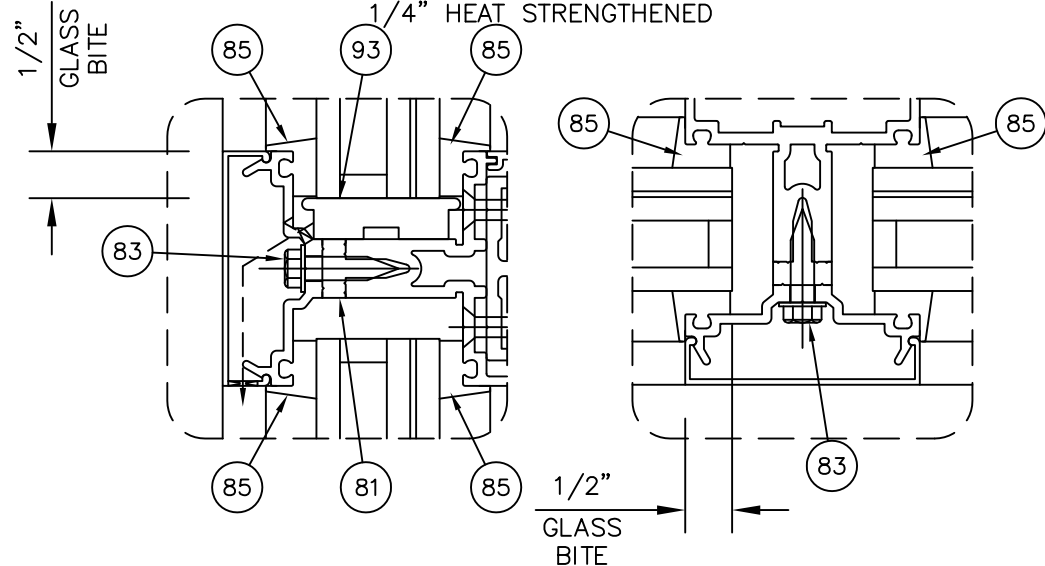
07/01/21 DATE
REV.#
1ST SUBMITTAL
PRINTS ISSUED FOR

SMALL MISSILE ONLY GLAZING CAPTURED VERTICALS

- GLASS TYPE 11 - 1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB INTERLAYER
- GLASS TYPE 12 - 1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
- GLASS TYPE 13 - 1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
- GLASS TYPE 14 - 1/4" HEAT STRENGTHENED
0.090" KURARAY BUTACITE PVB



- GLASS TYPE 15 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB INTERLAYER
- GLASS TYPE 16 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB



| GLASS CHART | | | | | | | | | | | | |
|---|----------------|----|----|--------|----|--------|--------|----|----|----|----|--------|
| GLASS TYPES 11, 12, 13, & 14 (SMI ONLY) | | | | | | | | | | | | |
| TESTED DLO'S = 58 1/2"x82 1/8" (90 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 33 1/4 | 36 | 40 | 44 1/2 | 48 | 50 5/8 | 58 1/2 | 66 | 72 | 78 | 84 | 93 1/2 |
| 51 3/8 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 57 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - |
| 61 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - |
| 66 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - |
| 72 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - |
| 82 1/8 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - |
| 94 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - |
| 100 | 90 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - |
| 108 | 90 | 90 | 90 | 90 | - | - | - | - | - | - | - | - |
| 120 | 90 | 90 | 90 | - | - | - | - | - | - | - | - | - |
| 132 | 90 | 90 | - | - | - | - | - | - | - | - | - | - |
| 144 | 90 | - | - | - | - | - | - | - | - | - | - | - |

| GLASS TYPES 15 & 16 (SMI ONLY) | | | | | | | | | | | | |
|--|----------------|----|--------|--------|--------|----|----|----|--------|----|----|--------|
| TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 67 1/2"x116 1/2" (71 psf) | | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | | |
| | 38 | 41 | 45 1/2 | 54 1/2 | 58 1/2 | 63 | 69 | 75 | 78 1/2 | 84 | 90 | 99 1/2 |
| 55 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 60 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 71 |
| 65 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 71 | 71 |
| 69 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 71 | 71 | 71 |
| 72 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 71 | 71 | 71 | 71 |
| 78 3/4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | 71 |
| 86 1/2 | 90 | 90 | 90 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | 71 | - |
| 93 1/2 | 90 | 90 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | 71 | - | - |
| 100 | 90 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | 71 | - | - | - |
| 104 1/2 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | 71 | - | - | - | - |
| 113 1/2 | 90 | 90 | 90 | 71 | 71 | 71 | 71 | - | - | - | - | - |
| 120 | 90 | 90 | 90 | 71 | 71 | 71 | - | - | - | - | - | - |
| 132 | 90 | 90 | 71 | 71 | 71 | - | - | - | - | - | - | - |
| 144 | 90 | 71 | 71 | 71 | - | - | - | - | - | - | - | - |

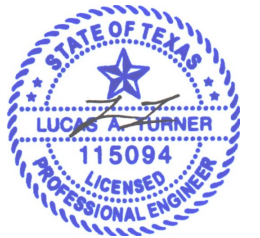
GLAZING NOTES:

- GLASS TYPES ON THIS SHEET ARE SMALL MISSILE IMPACT RESISTANT ONLY AND ARE NOT PERMITTED FOR USE IN ESSENTIAL FACILITIES. IF THESE GLASS TYPES ARE USED IN NON-ESSENTIAL FACILITIES IN WINDBORNE DEBRIS REGIONS, SHUTTERS ARE REQUIRED FOR USE BELOW 30 FEET FROM GRADE.
- SETTING BLOCKS 93 AND 94 ARE INSTALLED (2) PER LITE.

SEE SHEET 39 FOR GLAZING MATERIALS



555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449-5555
WWW.KAWNEER.COM



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

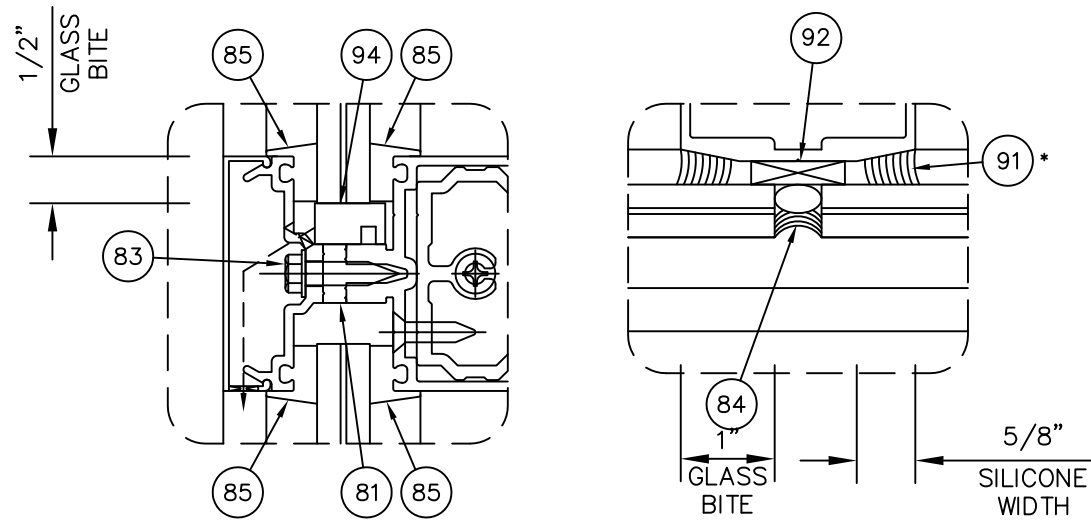
SECTION:
5

SHEET:
26/42

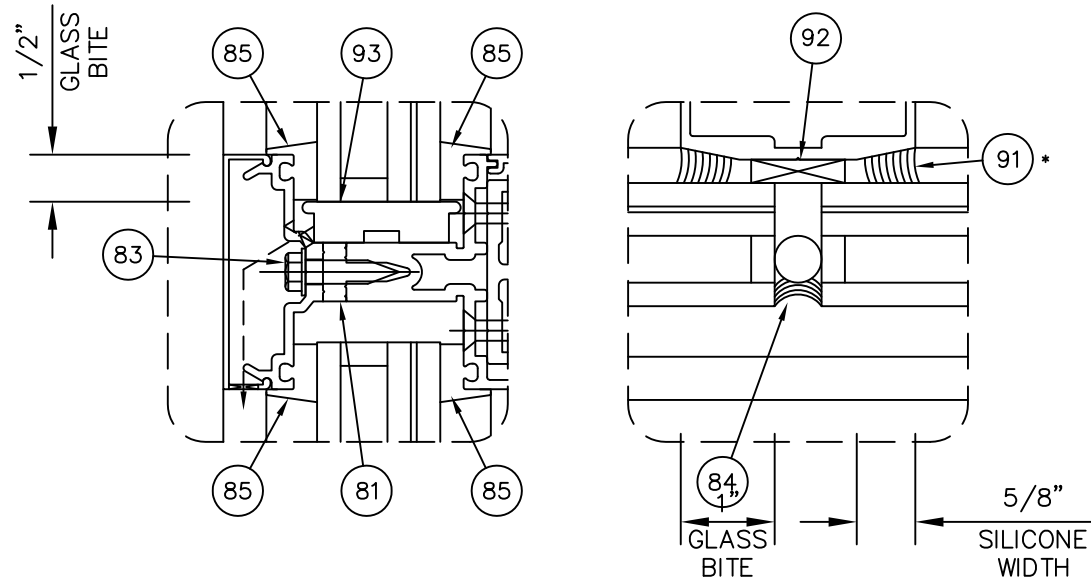
| | |
|---------------|-------------------|
| 07/01/21 | DATE |
| REV.# | |
| 1ST SUBMITTAL | PRINTS ISSUED FOR |

SMALL MISSILE ONLY GLAZING SSG VERTICALS

GLASS TYPE 17 - 1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED



GLASS TYPE 18 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

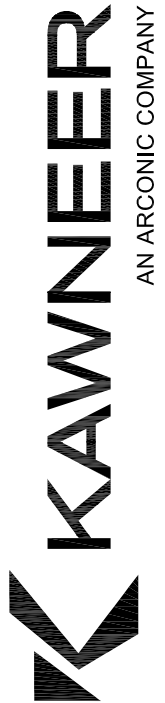
| GLASS TYPE 17 (SMI ONLY) | | | | | | | | | | | |
|---|----------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|--------|----|--------|
| TESTED DLO'S = 57 1/2"x82 1/2" (+/-60 psf), 81 1/2"x45 1/2" (+60/-74 psf) | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | |
| | 39 | 45 | 48 | 53 | 57 1/2 | 63 | 68 1/2 | 73 | 82 1/8 | 88 | 93 1/2 |
| 50 1/2 | +60/-74 | +60/-74 | +60/-70.3 | +60/-66.9 | +60/-66.9 | +60/-66.9 | +60/-66.9 | +60/-66.9 | 60 | 60 | 60 |
| 53 1/2 | +60/-74 | +60/-74 | +60/-70.3 | +60/-63.9 | +60/-63.3 | +60/-63.3 | +60/-63.3 | 60 | 60 | 60 | - |
| 57 1/2 | +60/-74 | +60/-74 | +60/-70.3 | +60/-63.9 | 60 | 60 | 60 | 60 | 60 | - | - |
| 60 1/2 | +60/-74 | +60/-74 | +60/-70.3 | +60/-63.9 | 60 | 57 | 57 | 57 | - | - | - |
| 64 1/2 | +60/-74 | +60/-74 | +60/-70.3 | +60/-63.9 | 60 | 54.9 | 53.7 | 53.7 | - | - | - |
| 69 | +60/-74 | +60/-74 | +60/-70.3 | +60/-63.9 | 60 | 54.9 | 50.6 | - | - | - | - |
| 75 | +60/-74 | +60/-74 | +60/-70.3 | 60 | 60 | 54.9 | - | - | - | - | - |
| 82 1/8 | +60/-74 | +60/-74 | 60 | 60 | 60 | - | - | - | - | - | - |
| 89 | +60/-74 | 60 | 60 | 60 | - | - | - | - | - | - | - |
| 98 | 60 | 60 | 60 | - | - | - | - | - | - | - | - |
| 105 | 60 | 60 | - | - | - | - | - | - | - | - | - |
| 120 | 60 | - | - | - | - | - | - | - | - | - | - |

| GLASS TYPE 18 (SMI ONLY) | | | | | | | | | | | |
|--|----------------|----|----|----|--------|------|---------|------|--------|----|--------|
| TESTED DLO'S = 57 1/2"x82 1/2" (+/-60 psf) | | | | | | | | | | | |
| ALLOWABLE DESIGN PRESSURE (psf) | | | | | | | | | | | |
| DLO HEIGHT (in) | DLO WIDTH (in) | | | | | | | | | | |
| | 39 | 45 | 48 | 53 | 57 1/2 | 63 | 68 1/2 | 73 | 82 1/8 | 88 | 93 1/2 |
| 50 1/2 | 60 | 60 | 60 | 60 | 60 | 60 | +60/-74 | 60 | 60 | 60 | 60 |
| 53 1/2 | 60 | 60 | 60 | 60 | 60 | 60 | +60/-74 | 60 | 60 | 60 | - |
| 57 1/2 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | - | - |
| 60 1/2 | 60 | 60 | 60 | 60 | 60 | 57 | 57 | 57 | - | - | - |
| 64 1/2 | 60 | 60 | 60 | 60 | 60 | 54.9 | 53.7 | 53.7 | - | - | - |
| 69 | 60 | 60 | 60 | 60 | 60 | 54.9 | 50.6 | - | - | - | - |
| 75 | 60 | 60 | 60 | 60 | 60 | 54.9 | - | - | - | - | - |
| 82 1/8 | 60 | 60 | 60 | 60 | 60 | - | - | - | - | - | - |
| 89 | 60 | 60 | 60 | 60 | - | - | - | - | - | - | - |
| 98 | 60 | 60 | 60 | - | - | - | - | - | - | - | - |
| 105 | 60 | 60 | - | - | - | - | - | - | - | - | - |
| 120 | 60 | - | - | - | - | - | - | - | - | - | - |

GLAZING NOTES:

- GLASS TYPES ON THIS SHEET ARE SMALL MISSILE IMPACT RESISTANT ONLY AND ARE NOT PERMITTED FOR USE IN ESSENTIAL FACILITIES. IF THESE GLASS TYPES ARE USED IN NON-ESSENTIAL FACILITIES IN WINDBORNE DEBRIS REGIONS, SHUTTERS ARE REQUIRED FOR USE BELOW 30 FEET FROM GRADE.
- SETTING BLOCKS 93 AND 94 ARE INSTALLED (2) PER LITE.

SEE SHEET 39 FOR GLAZING MATERIALS



PH: (770) 449-5555
WWW.KAWNEER.COM
555 GUTHRIDGE COURT
NORCROSS, GA 30092



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TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
5

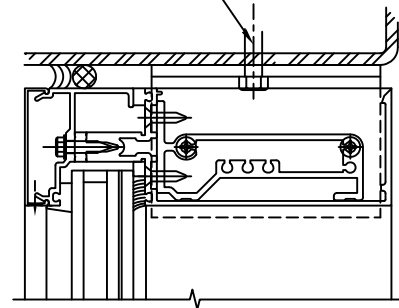
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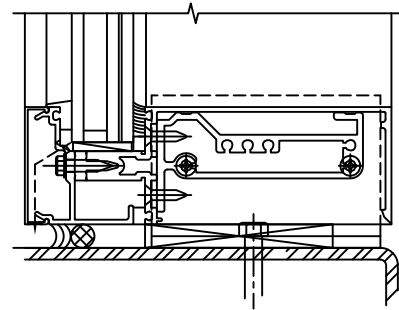
HEAD/SILL ANCHOR DETAILS

SEE CHART ON SHEET 31 FOR FASTENER & SUBSTRATE INFORMATION.

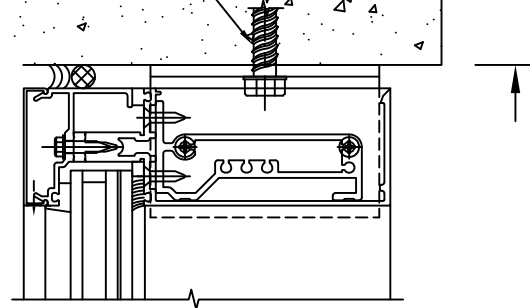
ANCHOR TYPES A2 or B
MIN. EDGE DISTANCE



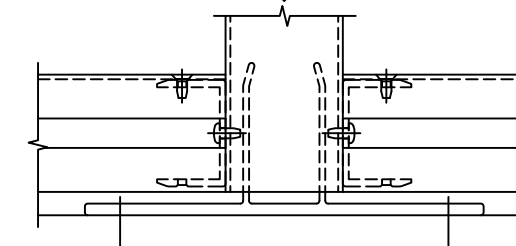
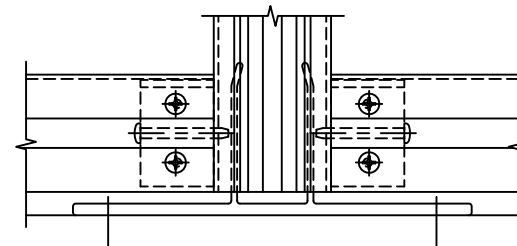
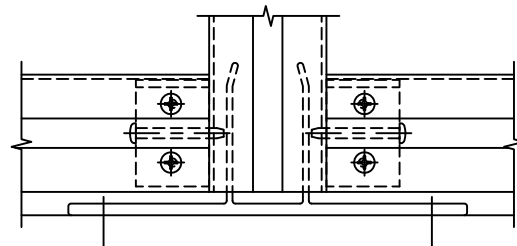
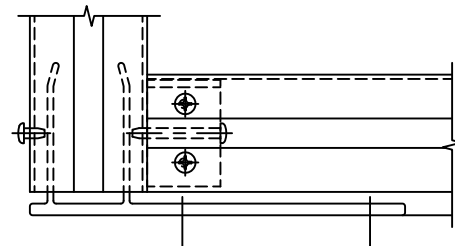
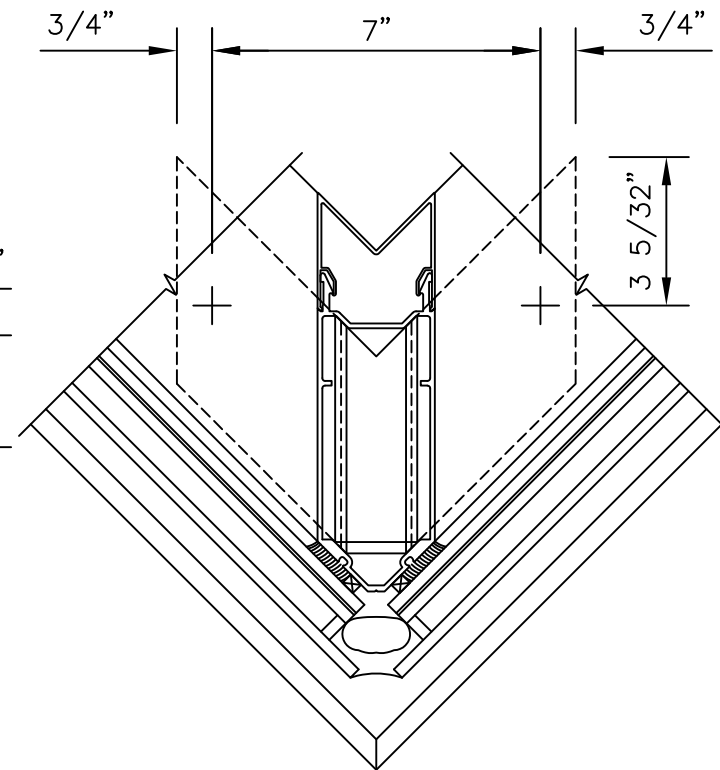
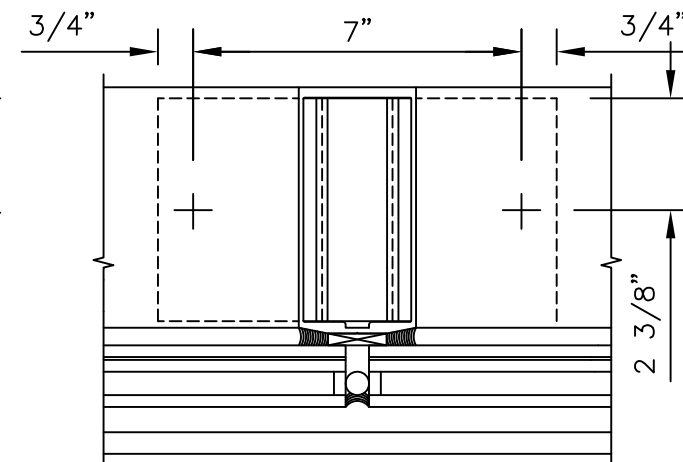
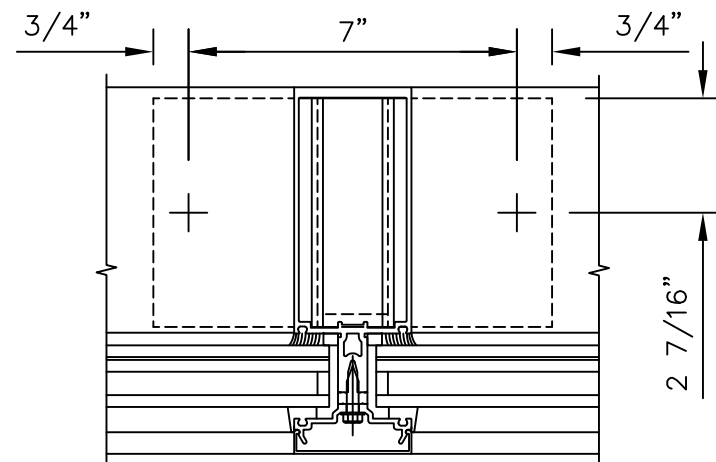
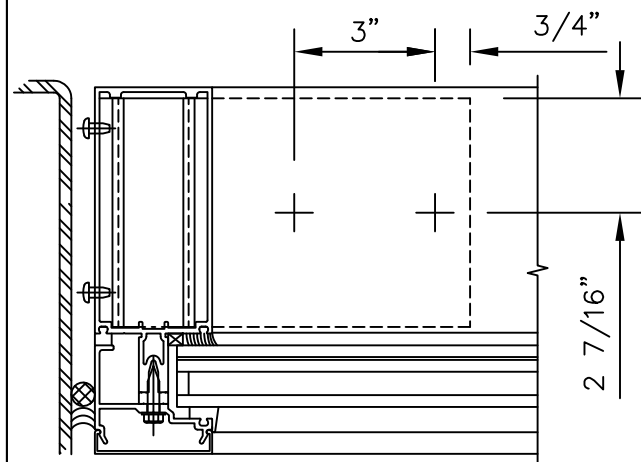
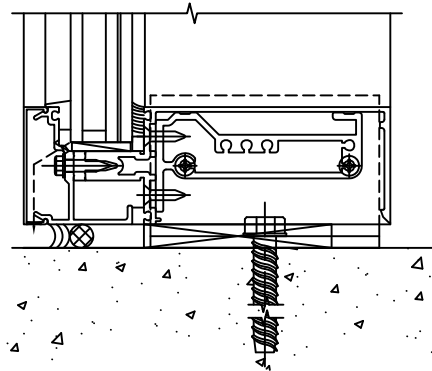
IN STEEL



ANCHOR TYPES E,F,G, or H
MIN. EDGE DISTANCE
MIN. EMBED.



IN CONCRETE



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10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING &
CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-TDI

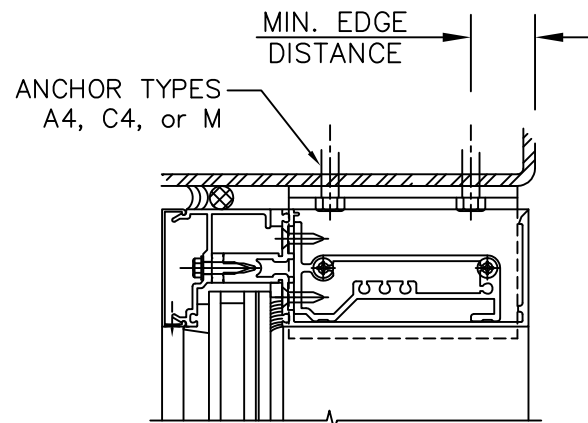
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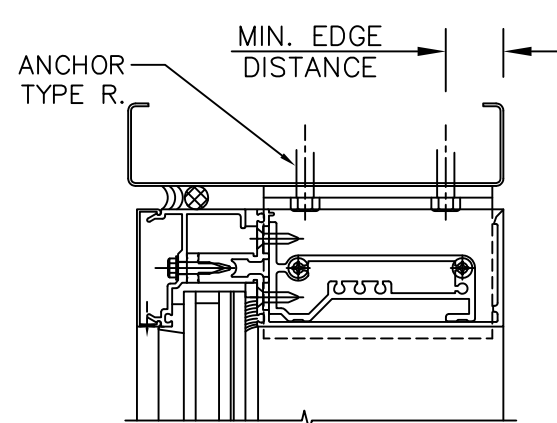
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HEAD/SILL ANCHOR DETAILS

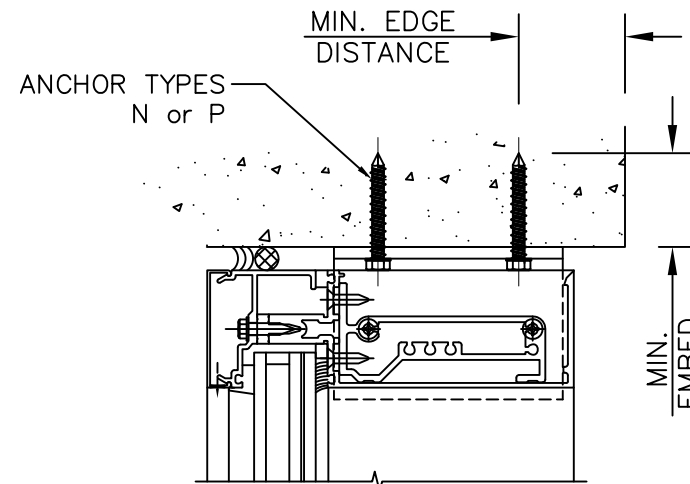
SEE CHART ON SHEET 31 FOR FASTENER & SUBSTRATE INFORMATION.



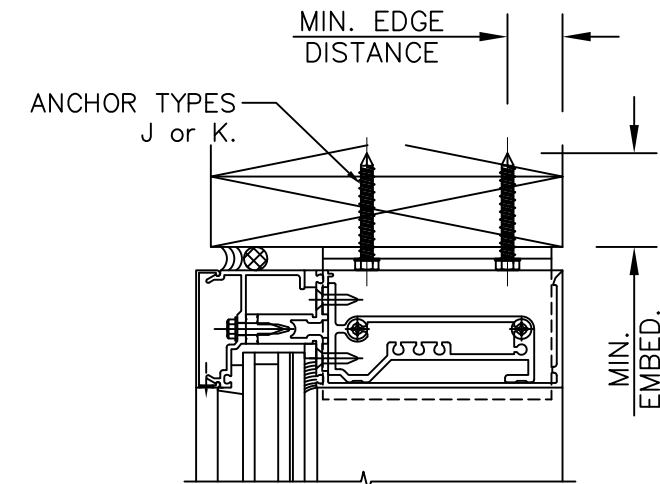
IN STEEL



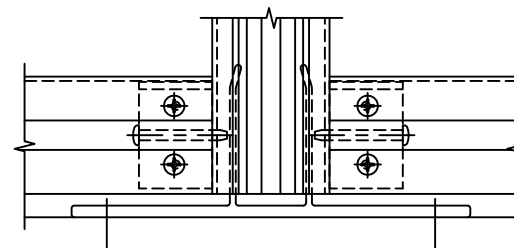
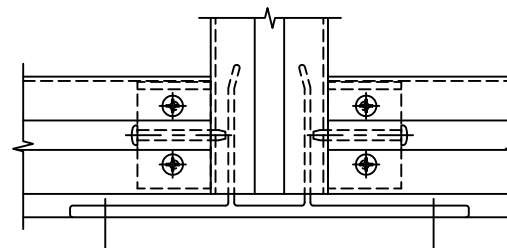
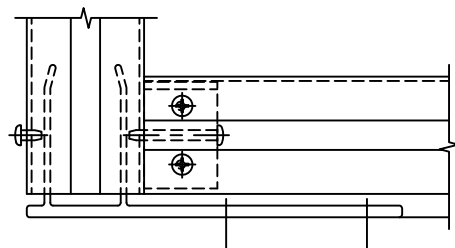
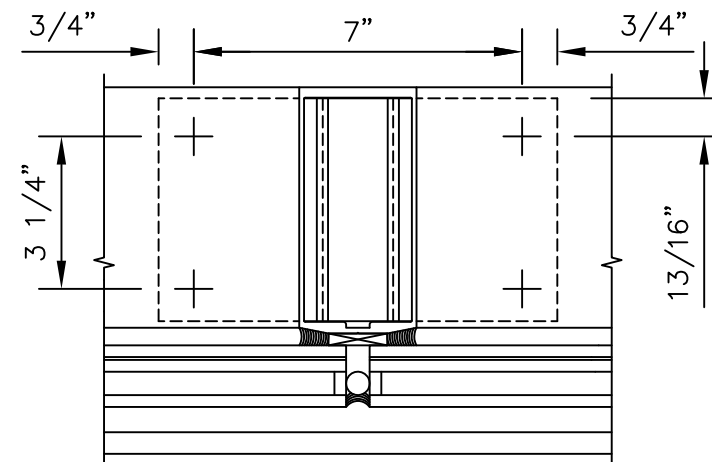
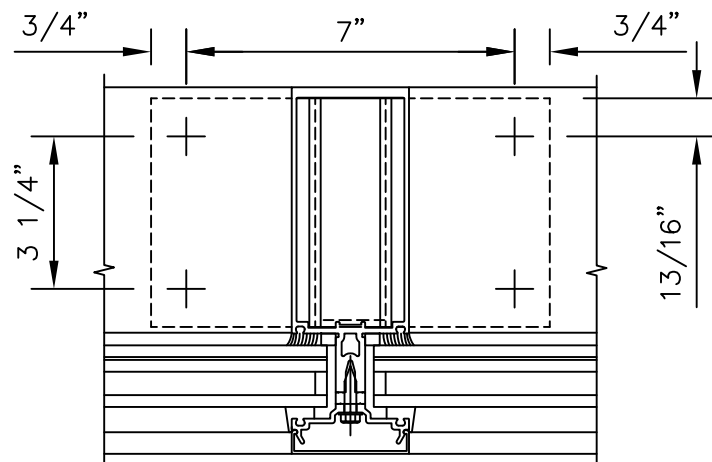
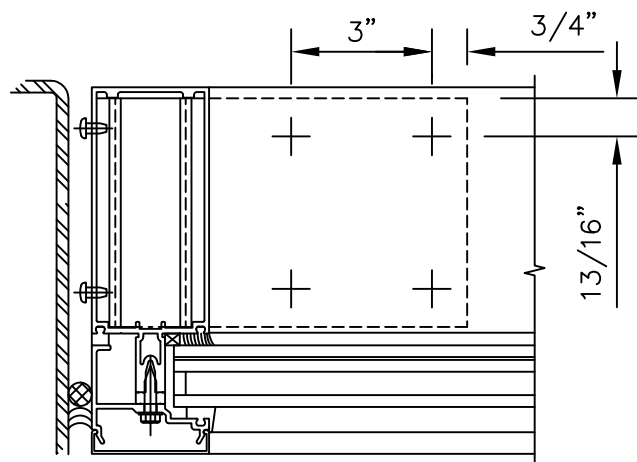
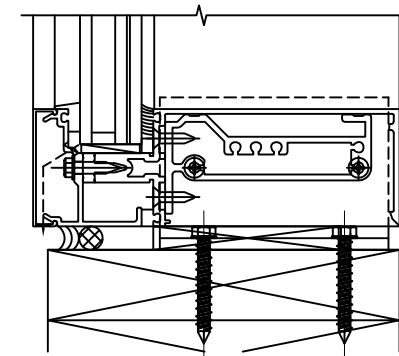
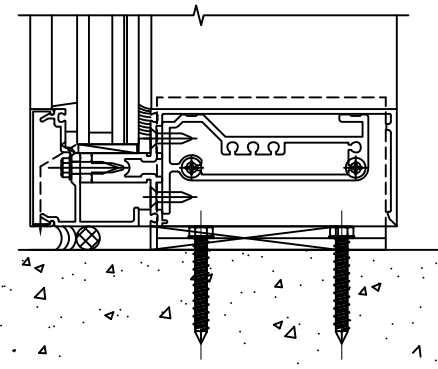
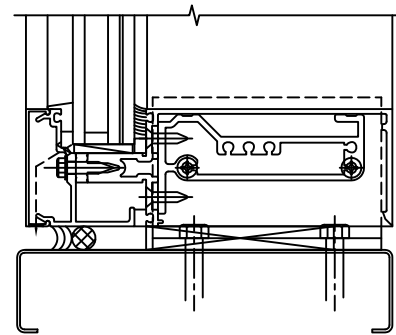
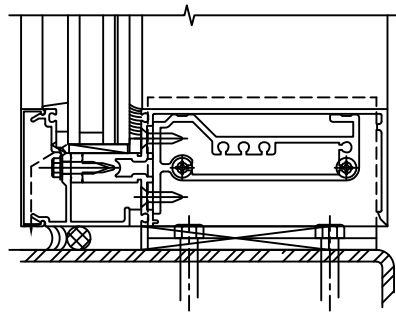
IN METAL STUD



IN CONCRETE



IN WOOD



CORNER ANCHORS ARE SIMILAR

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10/27/2021
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2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

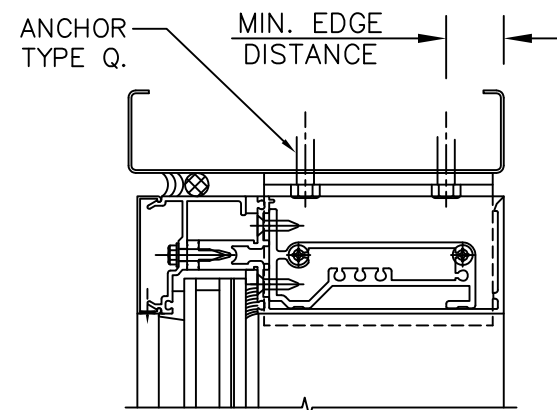
PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
6
SHEET:
29/42

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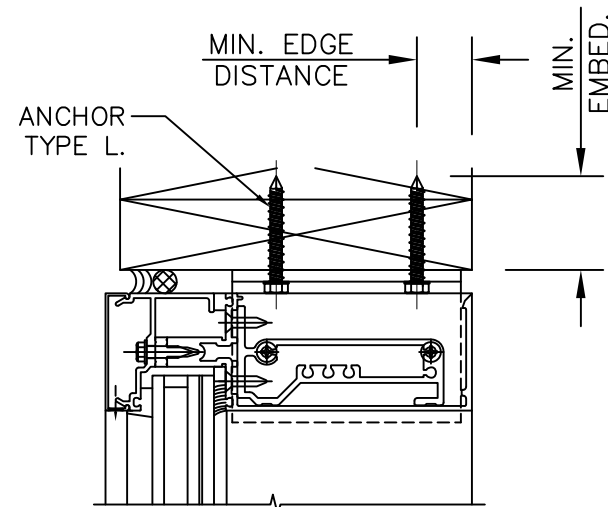
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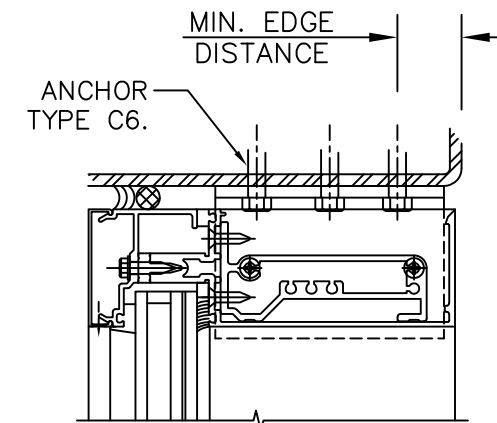
SEE CHART ON SHEET 31 FOR FASTENER & SUBSTRATE INFORMATION.



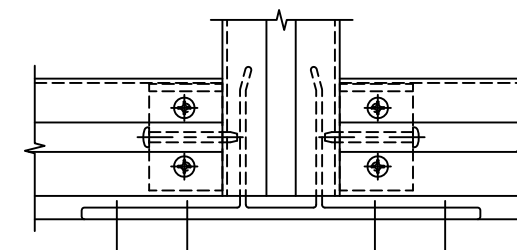
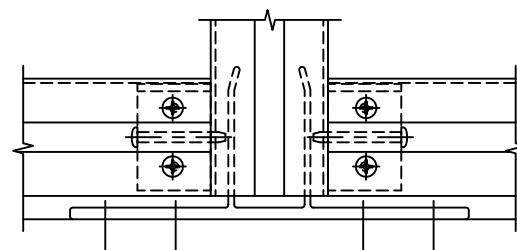
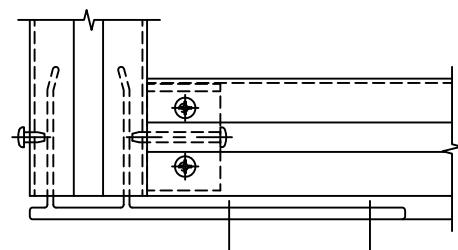
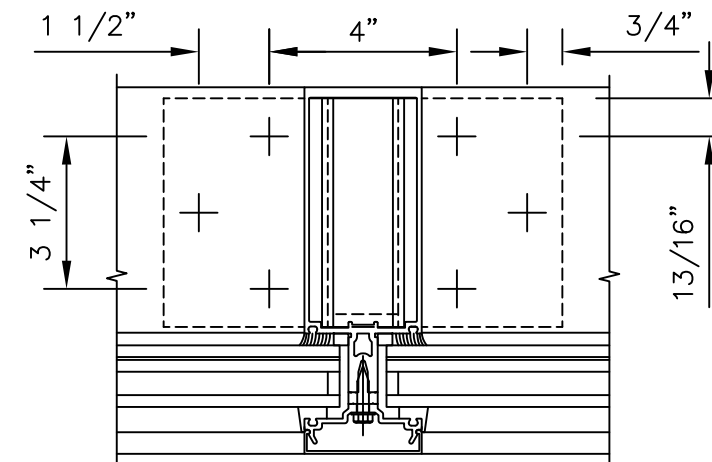
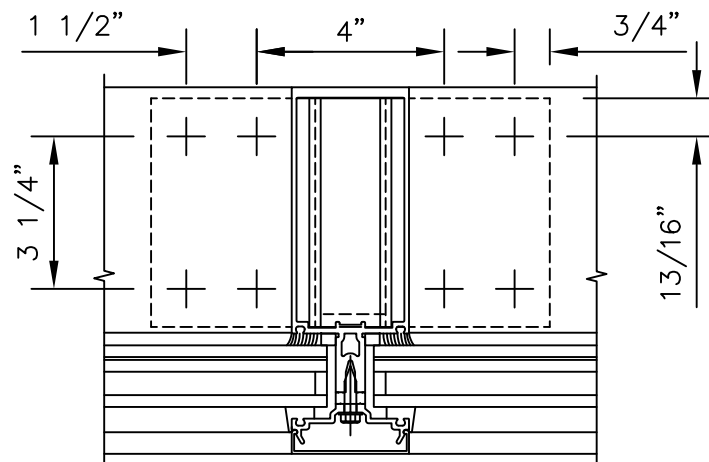
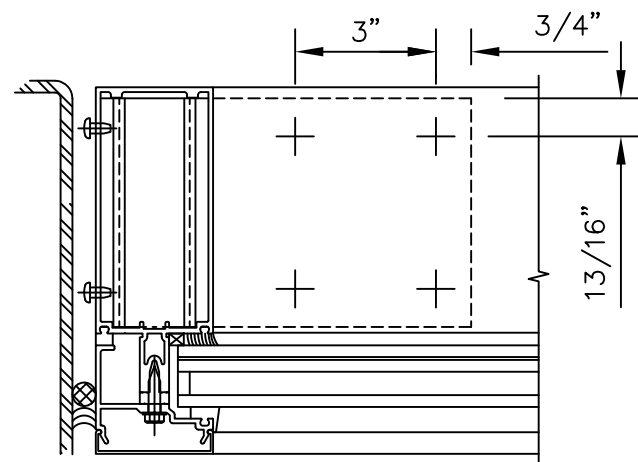
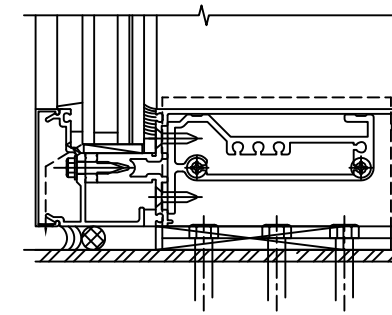
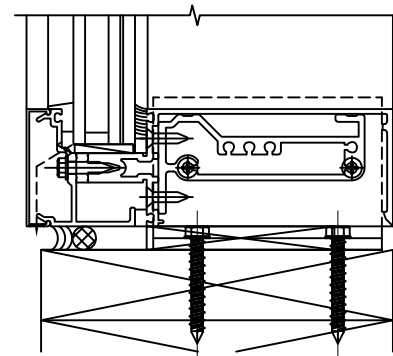
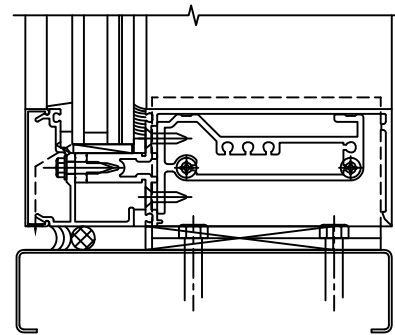
IN METAL STUD



IN WOOD



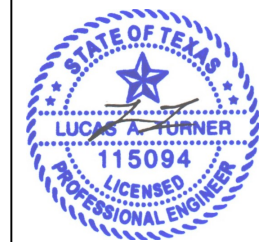
IN STEEL



SSG MULLION ANCHORS AND CORNER ANCHORS ARE SIMILAR

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PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
6
SHEET:
30/42

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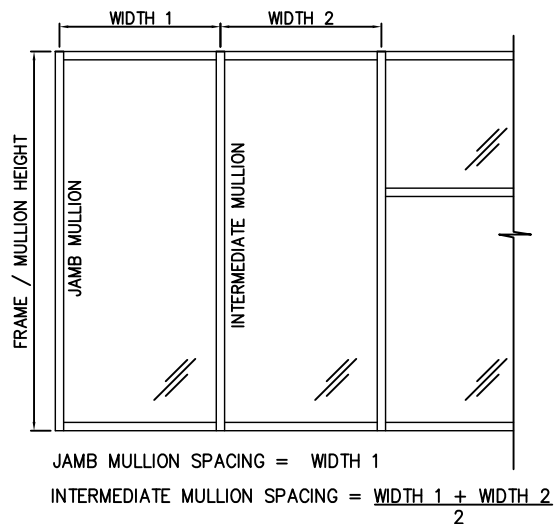
HEAD/SILL ANCHOR CHARTS

ANCHOR CHART AND ALLOWABLE LOADS AT SINGLE-SPAN MULLIONS

| HEAD/SILL ANCHORS | | | | | | | |
|-------------------------------------|------|--|----------|------|----------------|------------------------|-----------------------|
| SUBSTRATE | MARK | TYPE | QUANTITY | | MIN EMBED (in) | MIN EDGE DISTANCE (in) | MAX END REACTION (lb) |
| | | | MULLION | JAMB | | | |
| STRUCTURAL STEEL (1/4", A36 min) | A2 | 3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 2 | 2 | FULL* | 3/4" | 2175 lb. |
| | A4 | 3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 4 | 2 | FULL* | 3/4" | 3150 lb. |
| | B | 1/2" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 2 | 2 | FULL* | 1" | 3710 lb. |
| | C4 | 5/16"-24 ELCO DRIL-FLEX | 4 | 4 | FULL* | 1/2" | 3150 lb. |
| | C6 | 5/16"-24 ELCO DRIL-FLEX | 6 | 4 | FULL* | 3/4" | 3710 lb. |
| CONCRETE (4000 psi min) | E | 3/8" DIA. WEDGE -TYPE CONCRETE ANCHOR ¹ | 2 | 2 | 3 1/2" | 4 1/2" | 2625 lb. |
| | F | 1/2" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹ | 2 | 2 | 3 1/2" | 6" | 2900 lb. |
| | G | 1/2" DIA. STUD -TYPE CONCRETE ANCHOR ² | 2 | 2 | 3" | 6" | 2625 lb. |
| | H | 1/2" DIA. SLEEVE -TYPE CONCRETE ANCHOR ³ | 2 | 2 | 3 1/2" | 6" | 2645 lb. |
| WOOD (S.G.=0.55 min) | J | 3/8" DIA. LAG SCREW (Fu=75 ksi min) | 4 | 2 | 2 1/2" | 1 7/8" | 1660 lb. |
| | K | 5/16" ELCO ULTRACON | 4 | 4 | 2" | 1 5/8" | 1675 lb. |
| | L | 1/4" DIA. SELF-DRILLING SCREW or ELCO ULTRACON | 8 | 4 | 1 1/2" | 1 1/4" | 2175 lb. |
| STRUCTURAL STEEL (1/8", A36 min) | M | 1/4" DIA. SELF-DRILLING or F-TYPE SCREW (Fu=120 ksi min) | 4 | 4 | FULL* | 1/2" | 2175 lb. |
| CONCRETE (3515 psi min) | N | 5/16" DIA. ELCO ULTRACON | 4 | 4 | 1 3/4" | 3 1/8" | 1800 lb. |
| CONCRETE (2846 psi min) | P | 1/4" DIA. ELCO ULTRACON | 4 | 4 | 1 3/4" | 2 1/2" | 1400 lb. |
| METAL STUD (16 Ga, 45 ksi min) | Q | 1/4" DIA. SELF-DRILLING SCREW (Fu=120 ksi min) | 8 | 4 | FULL* | 1/2" | 2100 lb. |
| | R | 1/4" DIA. SELF-DRILLING SCREW (Fu=120 ksi min) | 4 | 4 | FULL* | 1/2" | 1450 lb. |

ANCHOR NOTES:

1. WEDGE-TYPE ANCHORS INCLUDE DeWALT SCREW-BOLT+, HILTI KWIK HUS-EZ, AND SIMPSON STRONG-TIE TITAN HD.
 2. STUD-TYPE ANCHORS INCLUDE DeWALT POWER-STUD+SD1, HILTI KWIK BOLT3, AND SIMPSON STRONG-TIE WEDGE-ALL.
 3. SLEEVE-TYPE ANCHORS INCLUDE DeWALT POWER-BOLT+, HILTI HSL-3, AND SIMPSON STRONG-TIE SLEEVE-ALL.
- * FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.



| HEAD/SILL ANCHORS - ALLOWABLE DESIGN PRESSURES | | | | | | | | | | | | | | | |
|--|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| MULLION HEIGHT (in) | MULLION WIDTH (in) | DESIGN PRESSURES FOR SINGLE SPAN MULLIONS (psf) | | | | | | | | | | | | | |
| | | ANCHOR CONFIGURATION | | | | | | | | | | | | | |
| | | A2 | C4 | E | F | G | H | J | K | L | M | N | P | Q | R |
| 72 | 61 | 130.0 | 130.0 | 130.0 | 130.0 | 130.0 | 130.0 | 108.9 | 109.8 | 130.0 | 130.0 | 118.0 | 91.8 | 130.0 | 95.1 |
| | 72 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 92.2 | 93.1 | 110.1 | 110.1 | 100.0 | 77.8 | 110.1 | 80.6 |
| | 84 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 79.0 | 79.8 | 94.4 | 94.4 | 85.7 | 66.7 | 94.4 | 69.0 |
| | 96 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 69.2 | 69.8 | 82.6 | 82.6 | 75.0 | 58.3 | 82.6 | 60.4 |
| 84 | 54 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 105.4 | 106.3 | 127.5 | 127.5 | 114.3 | 88.9 | 127.5 | 92.1 |
| | 61 | 122.2 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 93.3 | 94.1 | 122.2 | 122.2 | 101.2 | 78.7 | 118.0 | 81.5 |
| | 72 | 103.6 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 | 79.0 | 79.8 | 103.6 | 103.6 | 85.7 | 66.7 | 100.0 | 69.0 |
| | 83 | 89.8 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 68.6 | 69.2 | 89.8 | 89.8 | 74.4 | 57.8 | 86.7 | 59.9 |
| 96 | 54 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 92.2 | 93.1 | 120.8 | 120.8 | 100.0 | 77.8 | 116.7 | 80.6 |
| | 61 | 107.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 81.6 | 82.4 | 107.0 | 107.0 | 88.5 | 68.9 | 103.3 | 71.3 |
| | 72 | 90.6 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 69.2 | 69.8 | 90.6 | 90.6 | 75.0 | 58.3 | 87.5 | 60.4 |
| | 84 | 77.7 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 59.3 | 59.8 | 77.7 | 77.7 | 64.3 | 50.0 | 75.0 | 51.8 |
| 114 | 36 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 116.5 | 117.5 | 121.2 | 121.2 | 121.2 | 98.2 | 121.2 | 101.8 |
| | 48 | 114.5 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 | 87.4 | 88.2 | 114.5 | 114.5 | 94.7 | 73.7 | 110.5 | 76.3 |
| | 61 | 90.1 | 121.2 | 108.7 | 120.1 | 108.6 | 109.7 | 68.7 | 69.4 | 90.1 | 90.1 | 74.5 | 58.0 | 87.0 | 60.1 |
| | 72 | 76.3 | 110.5 | 92.1 | 101.8 | 92.0 | 93.0 | 58.2 | 58.8 | 76.3 | 76.3 | 63.2 | 49.1 | 73.7 | 50.9 |
| 123 | 56 3/8 | 90.3 | 127.0 | 127.0 | 120.4 | 108.9 | 110.1 | 68.9 | 69.6 | 90.3 | 90.3 | 74.8 | 58.1 | 87.2 | 60.2 |
| | 60 | 84.9 | 121.8 | 121.8 | 113.2 | 102.3 | 103.4 | 64.8 | 65.4 | 84.9 | 84.9 | 70.2 | 54.6 | 82.0 | 56.6 |
| | 66 | 77.2 | 111.8 | 93.1 | 102.9 | 93.0 | 94.0 | 58.9 | 59.4 | 77.2 | 77.2 | 63.9 | 49.7 | 74.5 | 51.4 |
| | 78 3/4 | 64.7 | 93.7 | 78.0 | 86.2 | 78.0 | 78.8 | 49.4 | 49.8 | 64.7 | 64.7 | 53.5 | 41.6 | 62.4 | 43.1 |
| 132 | 82 | 62.1 | 89.9 | 75.0 | 82.8 | 74.9 | 75.7 | 47.4 | 47.8 | 62.1 | 62.1 | 51.4 | 40.0 | 60.0 | 41.4 |
| | 86 1/2 | 58.9 | 85.3 | 71.1 | 78.5 | 71.0 | 71.7 | 44.9 | 45.3 | 58.9 | 58.9 | 48.7 | 37.9 | 56.8 | 39.2 |
| | 96 | 53.0 | 76.8 | 64.0 | 70.7 | 64.0 | 64.6 | 40.5 | 40.9 | 53.0 | 53.0 | 43.9 | 34.1 | 51.2 | 35.4 |
| | 48 | 98.9 | 127.0 | 119.3 | 131.8 | 127.0 | 120.5 | 75.5 | 76.1 | 98.9 | 98.9 | 81.8 | 63.6 | 95.5 | 65.9 |
| 147 | 60 | 79.1 | 111.7 | 95.5 | 105.5 | 95.3 | 96.4 | 60.4 | 60.9 | 79.1 | 79.1 | 65.5 | 50.9 | 76.4 | 52.7 |
| | 66 | 71.9 | 104.0 | 86.8 | 95.9 | 86.7 | 87.6 | 54.9 | 55.4 | 71.9 | 71.9 | 59.5 | 46.3 | 69.4 | 47.9 |
| | 73 1/2 | 64.6 | 93.5 | 77.9 | 86.1 | 77.8 | 78.7 | 49.3 | 49.7 | 64.6 | 64.6 | 53.4 | 41.6 | 62.3 | 43.0 |
| | 80 1/2 | 58.9 | 85.4 | 71.1 | 78.6 | 71.1 | 71.8 | 45.0 | 45.4 | 58.9 | 58.9 | 48.8 | 37.9 | 56.9 | 39.3 |
| 156 | 88 | 53.9 | 76.0 | 65.1 | 71.9 | 65.0 | 65.7 | 41.2 | 41.5 | 53.9 | 53.9 | 44.6 | 34.7 | 52.1 | 36.0 |
| | 96 | 49.4 | 65.8 | 59.7 | 65.9 | 59.6 | 60.2 | 37.7 | 38.1 | 49.4 | 49.4 | 40.9 | 31.8 | 47.7 | 33.0 |
| | 36 | 118.4 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 90.3 | 91.2 | 118.4 | 118.4 | 98.0 | 76.2 | 114.3 | 78.9 |
| | 48 | 88.8 | 113.4 | 107.1 | 113.4 | 107.0 | 108.2 | 67.8 | 68.4 | 88.8 | 88.8 | 73.5 | 57.1 | 85.7 | 59.2 |
| 168 | 60 | 71.0 | 99.8 | 85.7 | 94.7 | 85.6 | 86.5 | 54.2 | 54.7 | 71.0 | 71.0 | 58.8 | 45.7 | 68.6 | 47.3 |
| | 66 | 64.6 | 93.0 | 77.9 | 86.1 | 77.8 | 78.7 | 49.3 | 49.7 | 64.6 | 64.6 | 53.4 | 41.6 | 62.3 | 43.0 |
| | 68 5/8 | 62.1 | 89.9 | 74.9 | 82.8 | 74.9 | 75.7 | 47.4 | 47.8 | 62.1 | 62.1 | 51.4 | 40.0 | 60.0 | 41.4 |
| | 72 1/4 | 59.0 | 85.0 | 71.2 | 78.6 | 71.1 | 71.9 | 45.0 | 45.4 | 59.0 | 59.0 | 48.8 | 38.0 | 56.9 | 39.3 |
| 174 | 80 | 53.3 | 77.1 | 64.3 | 71.0 | 64.2 | 64.9 | 40.7 | 41.0 | 53.3 | 53.3 | 44.1 | 34.3 | 51.4 | 35.5 |
| | 89 | 47.9 | 62.0 | 57.8 | 62.0 | 57.7 | 58.3 | 36.5 | 36.9 | 47.9 | 47.9 | 39.6 | 30.8 | 46.2 | 31.9 |
| | 36 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 85.1 | 85.9 | 90.0 | 90.0 | 80.0 | 71.8 | 90.0 | 74.4 |
| | 41 1/4 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 74.3 | 75.0 | 90.0 | 90.0 | 80.6 | 62.7 | 90.0 | 64.9 |
| 183 | 54 | 74.4 | 90.0 | 89.7 | 90.0 | 89.6 | 90.0 | 56.8 | 57.3 | 74.4 | 74.4 | 61.5 | 47.9 | 71.8 | 49.6 |
| | 60 | 66.9 | 86.8 | 80.8 | 86.8 | 80.7 | 81.5 | 51.1 | 51.5 | 66.9 | 66.9 | 55.4 | 43.1 | 64.6 | 44.6 |
| | 68 | 59.0 | 76.6 | 71.3 | 76.6 | 71.2 | 71.9 | 45.1 | 45.5 | 59.0 | 59.0 | 48.9 | 38.0 | 57.0 | 39.4 |
| | 72 | 55.8 | 72.3 | 67.3 | 72.3 | 67.2 | 67.9 | 42.6 | 42.9 | 55.8 | 55.8 | 46.2 | 35.9 | 53.8 | 37.2 |
| 195 | 84 | 47.8 | 62.0 | 57.7 | 60.0 | 57.6 | 58.2 | 36.5 | 36.8 | 47.8 | 47.8 | 39.6 | 30.8 | 46.2 | 31.9 |
| | 36 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 79.0 | 79.8 | 90.0 | 90.0 | 85.7 | 66.7 | 90.0 | 69.0 |
| | 42 | 88.8 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 67.8 | 68.4 | 88.8 | 88.8 | 73.5 | 57.1 | 85.7 | 59.2 |
| | 50 | 74.6 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 56.9 | 57.4 | 74.6 | 74.6 | 61.7 | 48.0 | 72.0 | 49.7 |
| 199 | 60 | 62.1 | 74.8 | 74.8 | 74.8 | 74.9 | 74.8 | 47.4 | 47.9 | 62.1 | 62.1 | 51.4 | 40.0 | 60.0 | 41.4 |
| | 63 1/4 | 58.9 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 45.0 | 45.4 | 58.9 | 58.9 | 48.8 | 37.9 | 56.9 | 39.3 |
| | 69 | 54.0 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 41.2 | 41.6 | 54.0 | 54.0 | 44.7 | 34.8 | 52.2 | 36.0 |
| | 37 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 74.3 | 74.9 | 90.0 | 97.3 | 80.5 | 62.6 | 90.0 | 64.9 |
| 204 | 48 | 75.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 57.2 | 57.8 | 75.0 | 75.0 | 62.1 | 48.3 | 72.4 | 50.0 |
| | 60 | 60.0 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 45.8 | 46.2 | 60.0 | 60.0 | 49.7 | 38.6 | 57.9 | 40.0 |
| | 66 1/2 | 54.1 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 41.3 | 41.7 | 54.1 | 54.1 | 44.8 | 34.8 | 52.3 | 36.1 |
| | 35 5/16 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 74.0 | 74.6 | 90.0 | 90.0 | 80.2 | 62.4 | 90.0 | 64.6 |
| 207 | 46 1/4 | 74.0 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 56.5 | 57.0 | 74.0 | 74.0 | 61.2 | 47.6 | 71.5 | 49.3 |
| | 58 1/8 | 58.9 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 44.9 | 45.4 | 58.9 | 58.9 | 48.7 | 37.9 | 56.9 | 39.3 |
| | 63 | 54.3 | 65.6 | 65.0 | 65.6 | 65.5 | 65.6 | 41.5 | 41.8 | 54.3 | 54.3 | 45.0 | 35.0 | 52.5 | 36.2 |
| | 36 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 68.1 | 68.7 | 71.0 | 71.0 | 71.0 | 57.4 | 71.0 | 59.5 |
| 210 | 43 | 631.0 | 63.1 | 63.1 | 63.1 | 63.1 | 63.1 | 57.0 | 57.5 | 63.1 | 63.1 | 61.8 | 48.1 | 63.1 | 49.8 |
| | 54 5/16 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 45.1 | | | | | | | |

HEAD/SILL ANCHOR CHARTS

ALLOWABLE LOADS FOR HEAD/SILL ANCHORS
AT MULTI-SPAN MULLIONS WITH EQUAL SPANS.

ANCHOR CONFIGURATIONS A4,B,C4,C6 & F ARE APPROVED FOR ALL MULLION
SIZES AND PRESSURES SHOWN IN THE MULLION CHARTS ON SHEETS 14-21.

| HEAD/SILL ANCHORS - ALLOWABLE DESIGN PRESSURES | | | | | | | | | | | | | |
|--|--------------------|---|------|------|------|------|------|------|------|------|------|------|------|
| MULLION HEIGHT (in) | MULLION WIDTH (in) | DESIGN PRESSURES FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS (pdf) | | | | | | | | | | | |
| | | ANCHOR CONFIGURATION | | | | | | | | | | | |
| | | A2 | E | G | H | J | K | L | M | N | P | Q | R |
| 144 | 62 | 90.0 | 90.0 | 90.0 | 90.0 | 71.4 | 72.0 | 90.0 | 90.0 | 77.4 | 60.2 | 90.0 | 62.4 |
| | 66 | 87.9 | 90.0 | 90.0 | 90.0 | 67.1 | 67.7 | 87.9 | 87.9 | 72.7 | 56.6 | 84.8 | 58.6 |
| | 73 | 79.5 | 95.9 | 95.9 | 96.8 | 60.6 | 61.2 | 79.5 | 79.5 | 65.8 | 51.1 | 76.7 | 53.0 |
| | 84 | 69.0 | 83.3 | 83.3 | 84.1 | 52.7 | 53.2 | 69.0 | 69.0 | 57.1 | 44.4 | 66.7 | 46.0 |
| 156 | 60 | 89.2 | 90.0 | 90.0 | 90.0 | 68.1 | 68.7 | 89.2 | 89.2 | 73.8 | 57.4 | 86.2 | 59.5 |
| | 67 | 79.9 | 90.0 | 90.0 | 90.0 | 61.0 | 61.5 | 79.9 | 79.9 | 66.1 | 51.4 | 77.2 | 53.3 |
| | 71 | 75.4 | 90.0 | 90.0 | 90.0 | 57.6 | 58.1 | 75.4 | 75.4 | 62.4 | 48.5 | 72.8 | 50.3 |
| | 78 | 68.6 | 82.8 | 82.8 | 83.6 | 52.4 | 52.9 | 68.6 | 68.6 | 56.8 | 44.2 | 66.3 | 45.8 |
| 168 | 85 | 63.0 | 76.0 | 76.0 | 76.7 | 48.1 | 48.5 | 63.0 | 63.0 | 52.1 | 40.5 | 60.8 | 42.0 |
| | 90 | 59.5 | 71.8 | 71.8 | 72.5 | 45.4 | 45.8 | 59.5 | 59.5 | 49.2 | 38.3 | 57.4 | 39.7 |
| | 96 | 55.8 | 67.3 | 67.3 | 67.9 | 42.6 | 42.9 | 55.8 | 55.8 | 46.2 | 35.9 | 53.8 | 37.2 |
| | 66 | 75.3 | 90.0 | 90.0 | 90.0 | 57.5 | 58.0 | 75.3 | 75.3 | 62.3 | 48.5 | 72.7 | 50.2 |
| 180 | 72 | 69.0 | 83.3 | 83.3 | 84.1 | 52.7 | 53.2 | 69.0 | 69.0 | 57.1 | 44.4 | 66.7 | 46.0 |
| | 79 | 62.9 | 75.9 | 75.9 | 76.7 | 48.0 | 48.5 | 62.9 | 62.9 | 52.1 | 40.5 | 60.8 | 42.0 |
| | 84 | 59.2 | 71.4 | 71.4 | 72.1 | 45.2 | 45.6 | 59.2 | 59.2 | 49.0 | 38.1 | 57.1 | 39.5 |
| | 90 | 55.2 | 66.7 | 66.7 | 67.3 | 42.2 | 42.5 | 55.2 | 55.2 | 45.7 | 35.6 | 53.3 | 36.8 |
| 187 | 96 | 51.8 | 62.5 | 62.5 | 63.1 | 39.5 | 39.9 | 51.8 | 51.8 | 42.9 | 33.3 | 50.0 | 34.5 |
| | 49 1/2 | 90.0 | 90.0 | 90.0 | 90.0 | 71.5 | 72.2 | 90.0 | 90.0 | 77.6 | 60.3 | 90.5 | 62.5 |
| | 58 | 80.0 | 90.0 | 90.0 | 90.0 | 61.1 | 61.6 | 80.0 | 80.0 | 66.2 | 51.5 | 77.2 | 53.3 |
| | 61 | 76.1 | 90.0 | 90.0 | 90.0 | 58.1 | 58.6 | 76.1 | 76.1 | 63.0 | 49.0 | 73.4 | 50.7 |
| 192 | 68 | 68.2 | 82.4 | 82.4 | 83.1 | 52.1 | 52.5 | 68.2 | 68.2 | 56.5 | 43.9 | 65.9 | 45.5 |
| | 74 | 62.7 | 75.7 | 75.7 | 76.4 | 47.9 | 48.3 | 62.7 | 62.7 | 51.9 | 40.4 | 60.5 | 41.8 |
| | 80 | 58.0 | 70.0 | 70.0 | 70.7 | 44.3 | 44.7 | 58.0 | 58.0 | 48.0 | 37.3 | 56.0 | 38.7 |
| | 89 | 52.1 | 62.9 | 62.9 | 63.5 | 39.8 | 40.1 | 52.1 | 52.1 | 43.1 | 33.6 | 50.3 | 34.8 |
| 204 | 48 | 90.0 | 90.0 | 90.0 | 90.0 | 71.0 | 71.7 | 90.0 | 90.0 | 77.0 | 59.9 | 89.8 | 62.0 |
| | 54 | 82.7 | 90.0 | 90.0 | 90.0 | 63.1 | 63.7 | 82.7 | 82.7 | 68.4 | 53.2 | 79.9 | 55.1 |
| | 59 | 75.7 | 90.0 | 90.0 | 90.0 | 57.8 | 58.3 | 75.7 | 75.7 | 62.6 | 48.7 | 73.1 | 50.5 |
| | 66 | 67.7 | 81.7 | 81.7 | 82.5 | 51.6 | 52.1 | 67.7 | 67.7 | 56.0 | 43.6 | 65.3 | 45.1 |
| 216 | 71 | 62.9 | 75.9 | 75.9 | 76.6 | 48.0 | 48.4 | 62.9 | 62.9 | 52.1 | 40.5 | 60.7 | 41.9 |
| | 78 | 57.3 | 69.1 | 69.1 | 69.8 | 43.7 | 44.1 | 57.3 | 57.3 | 47.4 | 36.9 | 55.3 | 38.2 |
| | 86 | 50.6 | 61.0 | 61.0 | 61.6 | 38.6 | 39.0 | 50.6 | 50.6 | 41.9 | 32.6 | 48.8 | 33.7 |
| | 48 | 90.0 | 90.0 | 90.0 | 90.0 | 69.2 | 69.8 | 90.0 | 90.0 | 75.0 | 58.3 | 87.5 | 60.4 |
| 231 | 54 | 80.6 | 90.0 | 90.0 | 90.0 | 61.5 | 62.0 | 80.6 | 80.6 | 66.7 | 51.9 | 77.8 | 53.7 |
| | 57 1/2 | 75.7 | 90.0 | 90.0 | 90.0 | 57.7 | 58.3 | 75.7 | 75.7 | 62.6 | 48.7 | 73.0 | 50.4 |
| | 69 | 63.0 | 76.1 | 76.1 | 76.8 | 48.1 | 48.6 | 63.0 | 63.0 | 52.2 | 40.6 | 60.9 | 42.0 |
| | 72 | 60.4 | 72.9 | 72.9 | 73.6 | 46.1 | 46.5 | 60.4 | 60.4 | 50.0 | 38.9 | 58.3 | 40.3 |
| 204 | 78 | 52.5 | 63.3 | 63.3 | 64.0 | 40.1 | 40.4 | 52.5 | 52.5 | 43.4 | 33.8 | 50.7 | 35.0 |
| | 84 | 48.7 | 58.8 | 58.8 | 59.4 | 37.2 | 37.5 | 48.7 | 48.7 | 40.3 | 31.4 | 47.1 | 32.5 |
| | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 62.7 | 71.0 | 65.0 |
| | 48 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 70.6 | 54.9 | 56.9 |
| 216 | 51 1/2 | 71.0 | 71.0 | 71.0 | 71.0 | 60.7 | 61.2 | 71.0 | 71.0 | 65.8 | 51.2 | 71.0 | 53.0 |
| | 54 | 71.0 | 71.0 | 71.0 | 71.0 | 57.9 | 58.4 | 71.0 | 71.0 | 62.7 | 48.8 | 71.0 | 50.5 |
| | 60 | 68.2 | 71.0 | 71.0 | 71.0 | 52.1 | 52.5 | 68.2 | 68.2 | 56.5 | 43.9 | 65.9 | 45.5 |
| | 65 | 63.0 | 71.0 | 71.0 | 71.0 | 48.1 | 48.5 | 63.0 | 63.0 | 52.1 | 40.5 | 60.8 | 42.0 |
| 231 | 72 | 53.7 | 64.8 | 64.8 | 65.4 | 41.0 | 41.4 | 53.7 | 53.7 | 44.4 | 34.6 | 51.9 | 35.8 |
| | 79 | 48.9 | 59.1 | 59.1 | 59.6 | 37.4 | 37.7 | 48.9 | 48.9 | 40.5 | 31.5 | 47.3 | 32.6 |
| | 36 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 69.1 | 71.0 | 71.0 |
| | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 70.3 | 70.9 | 71.0 | 71.0 | 71.0 | 59.3 | 71.0 | 61.4 |
| 231 | 48 | 71.0 | 71.0 | 71.0 | 71.0 | 61.5 | 62.0 | 71.0 | 71.0 | 66.7 | 51.9 | 71.0 | 53.7 |
| | 51 | 75.8 | 71.0 | 71.0 | 71.0 | 57.9 | 58.4 | 71.0 | 71.0 | 62.7 | 48.8 | 71.0 | 50.5 |
| | 61 | 63.4 | 71.0 | 71.0 | 71.0 | 48.4 | 48.8 | 63.4 | 63.4 | 52.5 | 40.8 | 61.2 | 42.3 |
| | 68 | 53.2 | 64.2 | 64.2 | 64.8 | 40.6 | 40.9 | 53.2 | 53.2 | 44.0 | 34.2 | 51.3 | 35.4 |
| 231 | 74 | 48.9 | 59.0 | 59.0 | 59.5 | 37.3 | 37.6 | 48.9 | 48.9 | 40.4 | 31.4 | 47.2 | 32.6 |
| | 36 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 64.6 | 71.0 | 67.0 |
| | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 65.7 | 66.3 | 71.0 | 71.0 | 71.0 | 55.4 | 71.0 | 57.4 |
| | 45 1/2 | 71.0 | 71.0 | 71.0 | 71.0 | 60.6 | 61.2 | 71.0 | 71.0 | 65.8 | 51.1 | 71.0 | 53.0 |
| 231 | 48 | 71.0 | 71.0 | 71.0 | 71.0 | 57.5 | 58.0 | 71.0 | 71.0 | 62.3 | 48.5 | 71.0 | 50.2 |
| | 57 3/4 | 62.6 | 66.5 | 66.5 | 66.5 | 47.8 | 48.2 | 62.6 | 62.6 | 51.8 | 40.3 | 60.4 | 41.7 |
| | 66 | 54.8 | 58.2 | 58.2 | 58.2 | 41.8 | 42.2 | 54.8 | 54.8 | 45.3 | 35.3 | 52.9 | 36.5 |
| | 70 | 51.7 | 54.9 | 54.9 | 54.9 | 39.4 | 39.8 | 51.7 | 51.7 | 42.7 | 33.2 | 49.9 | 34.4 |

ANCHOR NOTE:

1. THE ALLOWABLE ANCHOR DESIGN PRESSURES LISTED ARE FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS. ALLOWABLE DESIGN PRESSURES FOR UNEQUAL SPANS WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A TEXAS LICENSED ENGINEER.

| | |
|-------------------|-------|
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| 1ST SUBMITTAL | REV.# |
| PRINTS ISSUED FOR | |

KAWNEER
AN ARCONIC COMPANY

PH: (770) 449-5555
WWW.KAWNEER.COM

555 GUTHRIDGE COURT
NORCROSS, GA 30092



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

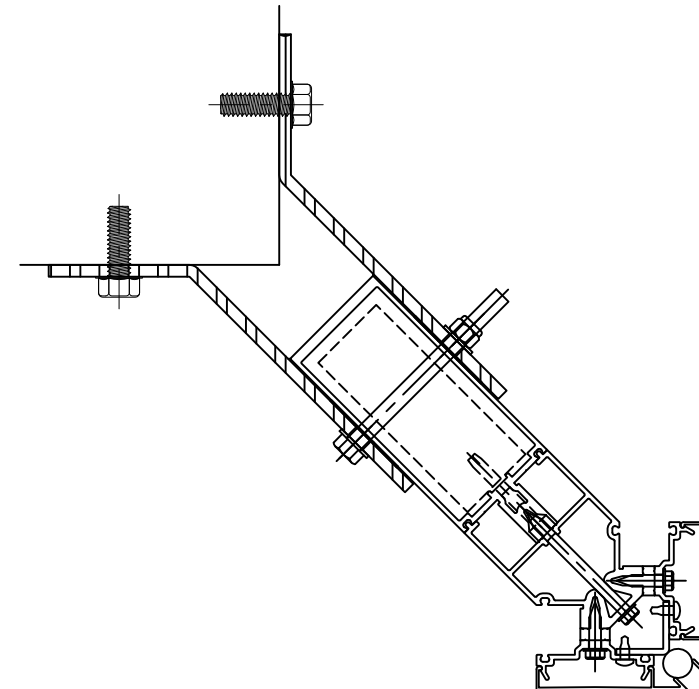
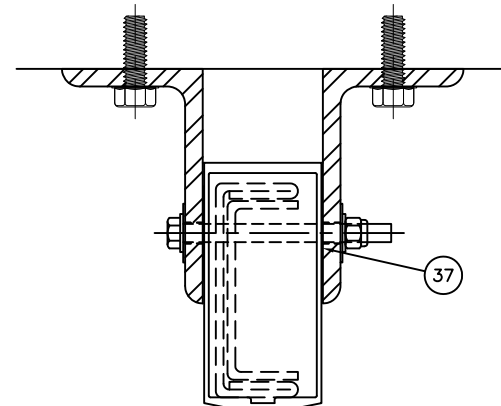
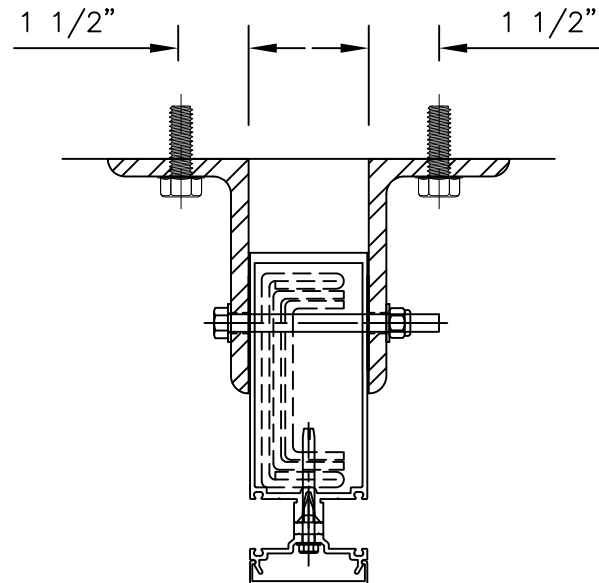
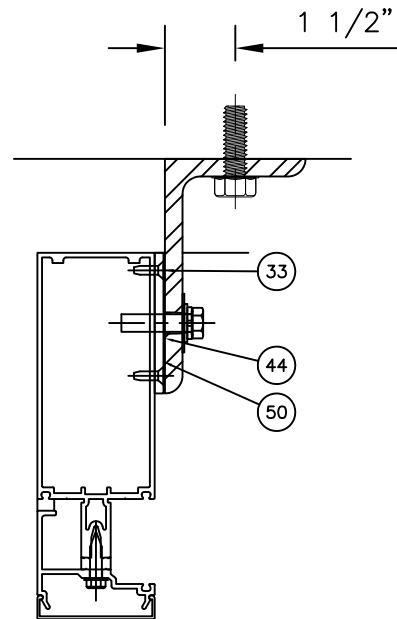
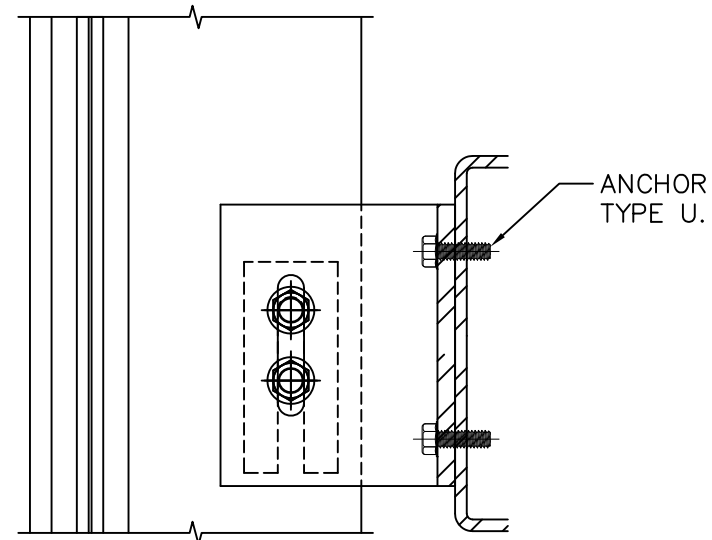
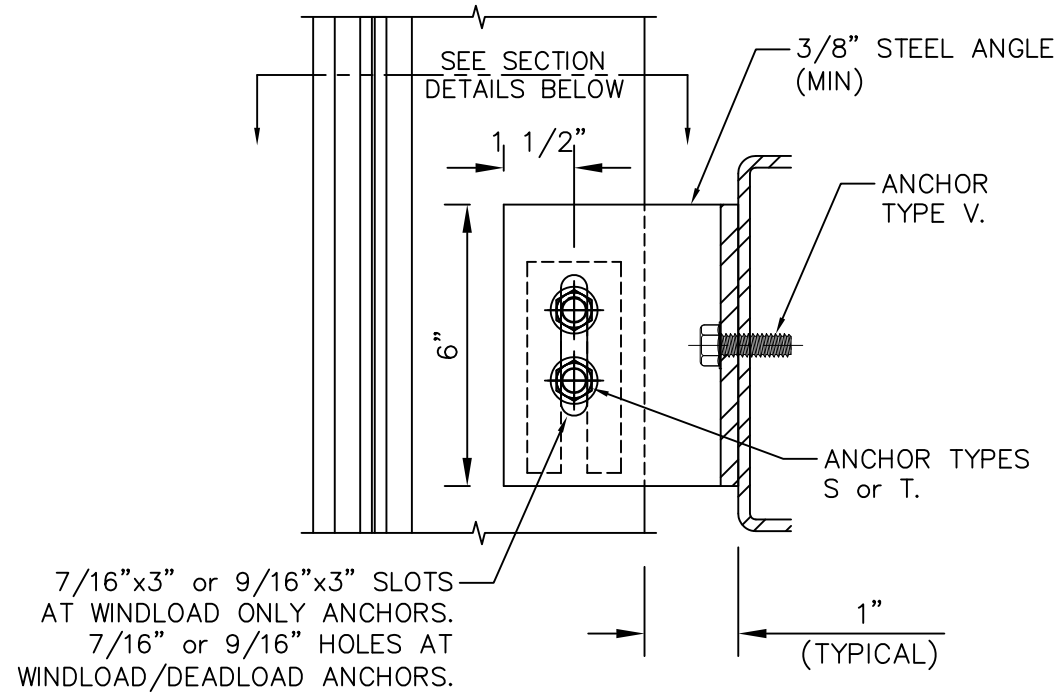
DWG:
1600-IR-TDI

SECTION:
6

SHEET:
32/42

MID-SPAN ANCHOR DETAILS

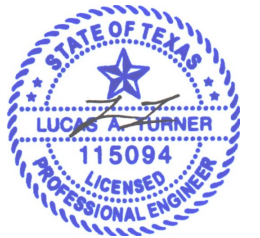
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NORCROSS, GA 30092



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1600-IR-TDI

SECTION:
6

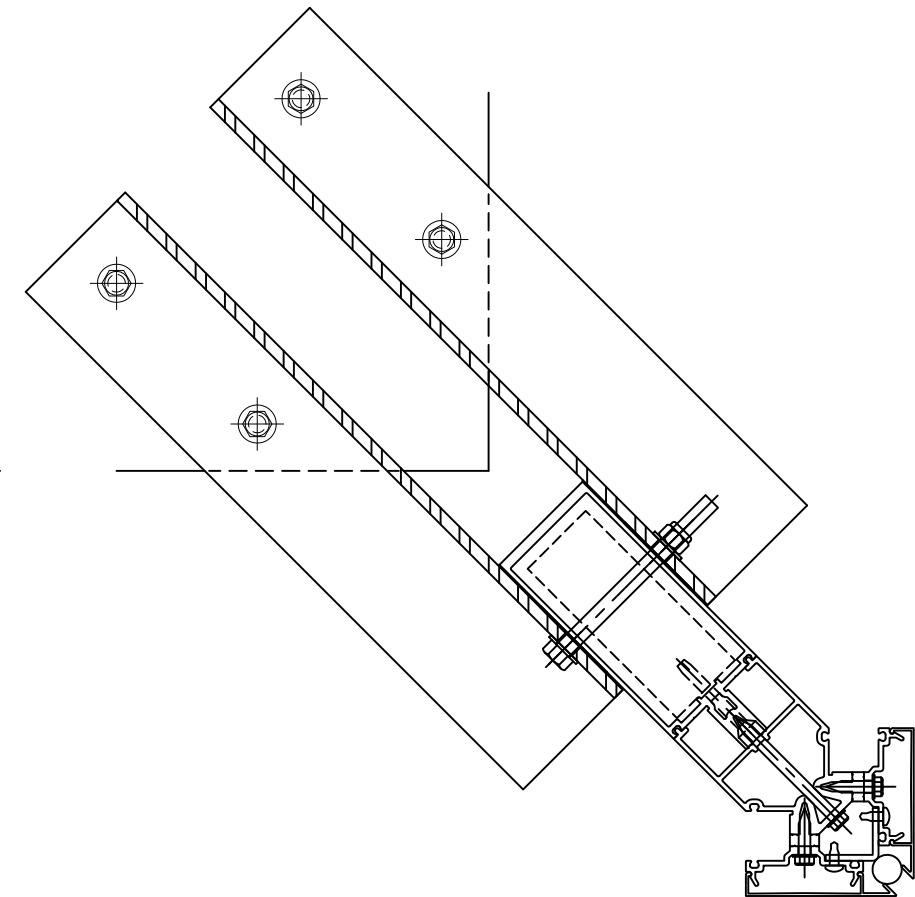
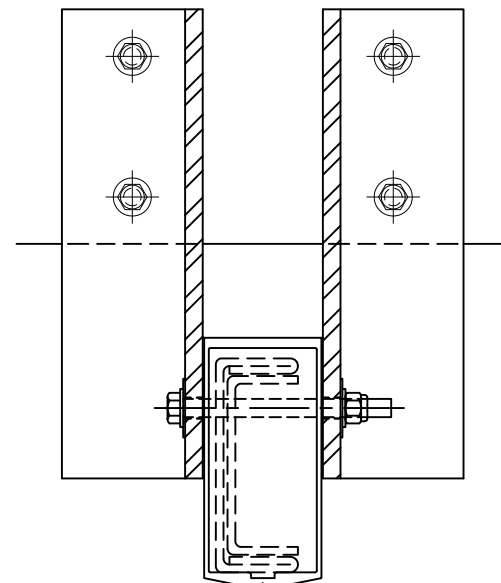
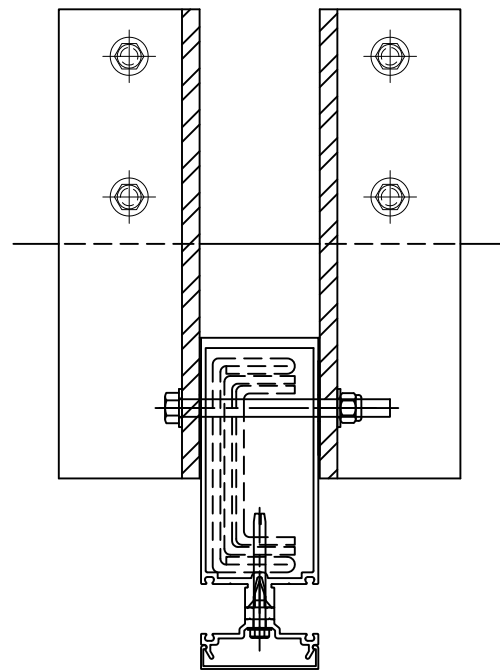
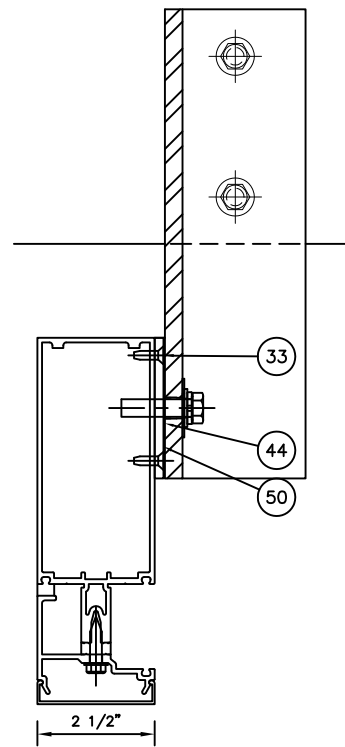
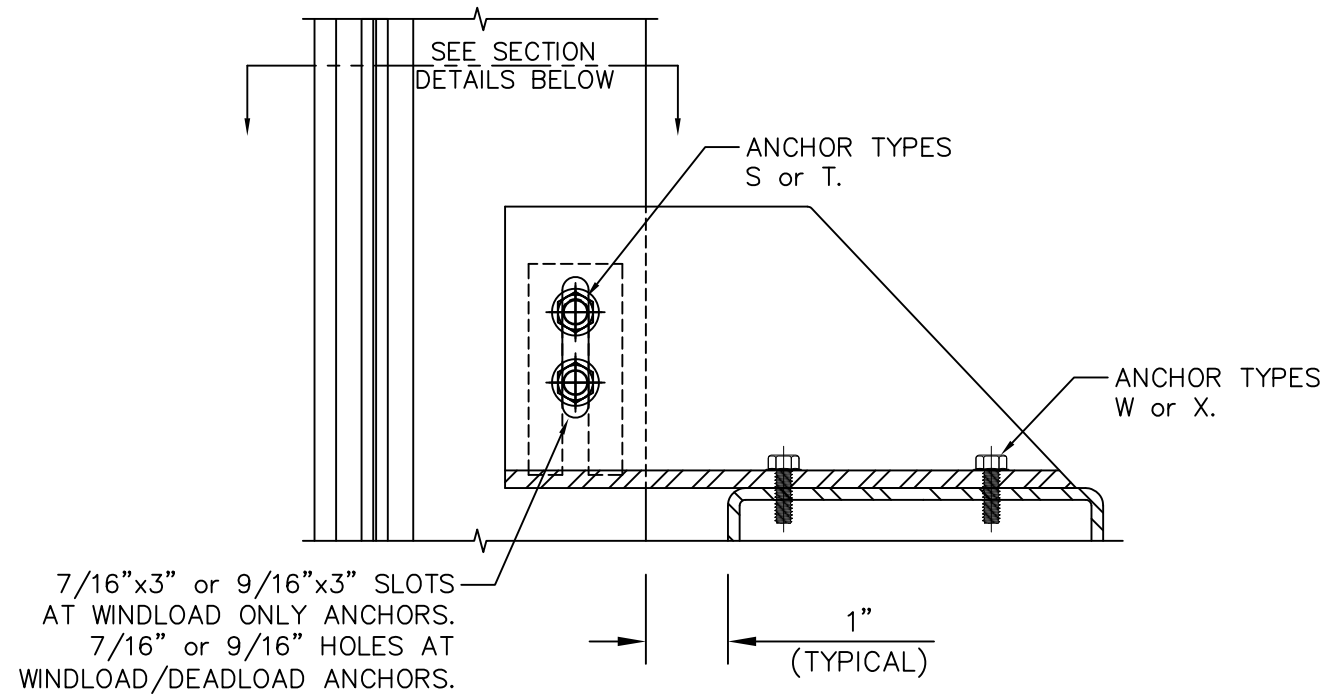
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PRODUCT:
**1600 WALL
SYSTEM 1 & 2**
DWG:
1600-IR-TDI
SECTION:
6
SHEET:
35/42

| REV.# | DATE |
|-------|----------|
| 1 | 07/01/21 |
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MID-SPAN ANCHOR CHARTS

| MID-SPAN ANCHORS | | | | | | | |
|-------------------------------------|------|---|----------|------|-------------------|---------------------------|-------------------------|
| SUBSTRATE | MARK | TYPE | QUANTITY | | MIN EMBED (in) | MIN EDGE DISTANCE (in) | MAX WL REACTION (lb) |
| | | | MULLION | JAMB | | | |
| THRU MULLION AND ANCHORS | S | 3/8" DIA. BOLT, LOCKNUT, AND WASHERS (Fu=120 ksi min) ⁴ | 2 | 2 | N/A | N/A | 6705 lb. |
| | T | 1/2" DIA. BOLT, LOCKNUT, AND WASHERS (Fu=120 ksi min) ⁴ | 2 | 2 | N/A | N/A | 9119 lb. |
| STRUCTURAL STEEL (1/4", A36 min) | U | 3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 4 | 2 | FULL* | 3/4" | 9119 lb. |
| | V | 1/2" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 2 | 1 | FULL* | 1" | 9119 lb. |
| | W | 3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 4 | 2 | FULL* | 3/4" | 7748 lb. |
| | X | 1/2" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | 4 | 2 | FULL* | 1" | 9119 lb. |
| CONCRETE (4000 psi min) | Y | 3/8" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹ | 4 | 2 | 3 1/4" | 3" | 5792 lb. |
| | Z | 3/8" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹ | 4 | 2 | 4 1/2" | 3" | 7212 lb. |
| | AA | 1/2" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹ | 2 | 1 | 4 1/4" | 4" | 5142 lb. |
| | BB | 1/2" DIA. STUD -TYPE CONCRETE ANCHOR ² | 2 | 1 | 4 1/2" | 6" | 4882 lb. |

ANCHOR NOTES:

1. WEDGE-TYPE ANCHORS INCLUDE DeWALT SCREW-BOLT+, HILTI KWIK HUZ-EZ, AND SIMPSON STRONG-TIE TITAN HD.
 2. STUD-TYPE ANCHORS INCLUDE HILTI KWIK BOLT 3 AND SIMPSON STRONG-TIE WEDGE-ALL.
 3. THRU BOLTS MAY BE CARBON STEEL (GRADE 5 MIN) OR STAINLESS STEEL (Fu=120 ksi min)
- * FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

ANCHOR CONFIGURATIONS T, U, V, and X ARE APPROVED FOR ALL MULLION SIZES AND PRESSURES SHOWN IN THE MULLION CHARTS ON SHEETS 16-21.

| MID-SPAN ANCHORS - ALLOWABLE DESIGN PRESSURES | | | | | | | | | | | | |
|---|--------------------------|---|-----------------------|------|------|------|------|---------------------------|------|------|------|------|
| MULLION HEIGHT (in) | MULLION WIDTH (in) | DESIGN PRESSURES FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS (pdf) | | | | | | | | | | |
| | | (2) 3/8" BOLTS THRU MULLION | WINDLOAD ONLY ANCHORS | | | | | WINDLOAD/DEADLOAD ANCHORS | | | | |
| | | | W | Y | Z | AA | BB | W | Y | Z | AA | BB |
| 144 | 48 | 90.0 | 90.0 | 90.0 | 90.0 | 85.7 | 81.4 | 90.0 | 77.8 | 90.0 | 65.9 | 61.8 |
| | 60 | 89.3 | 90.0 | 77.2 | 90.0 | 68.6 | 65.1 | 90.0 | 57.9 | 71.6 | 47.8 | 44.7 |
| | 72 | 74.4 | 86.1 | 64.4 | 80.1 | 57.1 | 54.2 | 85.8 | 44.3 | 55.7 | 35.5 | 32.9 |
| | 78 | 68.7 | 79.5 | 59.4 | 74.0 | 52.7 | 50.1 | 79.2 | 39.0 | 49.5 | 30.6 | 28.3 |
| | 84 | 63.8 | 73.8 | 55.2 | 68.7 | 49.0 | 46.5 | 73.6 | 34.5 | 44.1 | 26.3 | 24.2 |
| | 90 | 59.6 | 68.9 | 51.5 | 64.1 | 45.7 | 43.4 | 68.7 | 30.4 | 39.4 | 22.5 | 20.6 |
| 156 | 48 | 90.0 | 90.0 | 89.1 | 90.0 | 79.1 | 75.1 | 90.0 | 71.9 | 90.0 | 60.8 | 57.1 |
| | 60 | 82.5 | 90.0 | 71.3 | 90.0 | 63.3 | 60.1 | 90.0 | 53.4 | 66.1 | 44.2 | 41.2 |
| | 72 | 68.7 | 79.5 | 59.4 | 74.0 | 52.7 | 50.1 | 79.2 | 40.9 | 51.4 | 32.7 | 30.4 |
| | 84 | 58.9 | 68.1 | 50.9 | 63.4 | 45.2 | 42.9 | 67.9 | 31.8 | 40.7 | 24.3 | 22.4 |
| | 90 | 51.5 | 59.6 | 44.6 | 55.5 | 39.6 | 37.6 | 59.4 | 24.8 | 32.6 | 17.6 | 16.0 |
| | 168 | 48 | 90.0 | 90.0 | 82.7 | 90.0 | 73.5 | 69.7 | 90.0 | 66.7 | 81.5 | 56.5 |
| 60 | | 76.6 | 88.5 | 66.2 | 82.4 | 58.8 | 55.8 | 88.3 | 49.6 | 61.4 | 41.0 | 38.3 |
| 66 | | 69.6 | 80.5 | 60.2 | 74.9 | 53.4 | 50.7 | 80.3 | 43.3 | 54.0 | 35.3 | 32.8 |
| 72 | | 63.8 | 73.8 | 55.2 | 68.7 | 49.0 | 46.5 | 73.6 | 38.0 | 47.7 | 30.4 | 28.2 |
| 84 | | 54.7 | 63.2 | 47.3 | 58.9 | 42.0 | 39.9 | 63.1 | 29.5 | 37.8 | 22.5 | 20.8 |
| 90 | | 51.0 | 59.0 | 44.1 | 54.9 | 39.2 | 37.2 | 58.9 | 26.1 | 33.8 | 19.3 | 17.7 |
| 180 | 48 | 89.3 | 90.0 | 77.2 | 90.0 | 68.6 | 65.1 | 90.0 | 62.3 | 76.1 | 52.7 | 49.4 |
| | 60 | 71.5 | 82.6 | 61.8 | 76.9 | 54.8 | 52.1 | 82.4 | 46.3 | 57.3 | 38.3 | 35.7 |
| | 66 | 65.0 | 75.1 | 56.2 | 69.9 | 49.9 | 47.3 | 74.9 | 40.4 | 50.4 | 32.9 | 30.6 |
| | 72 | 59.6 | 68.9 | 51.5 | 64.1 | 45.7 | 43.4 | 68.7 | 35.5 | 44.6 | 28.4 | 26.3 |
| | 78 | 55.0 | 63.6 | 47.5 | 59.2 | 42.2 | 40.1 | 63.4 | 31.2 | 39.6 | 24.5 | 22.6 |
| | 84 | 51.0 | 59.0 | 44.1 | 54.9 | 39.2 | 37.2 | 58.9 | 27.6 | 35.3 | 21.0 | 19.4 |
| 187 | 48 | 86.0 | 90.0 | 74.3 | 90.0 | 66.0 | 62.7 | 90.0 | 59.9 | 73.2 | 50.7 | 47.6 |
| | 54 | 76.4 | 88.4 | 66.1 | 82.3 | 58.7 | 55.7 | 88.1 | 51.4 | 63.2 | 43.1 | 40.3 |
| | 60 | 68.8 | 79.6 | 59.5 | 74.0 | 52.8 | 50.1 | 79.3 | 44.6 | 55.1 | 36.8 | 34.4 |
| | 66 | 62.5 | 72.3 | 54.1 | 67.3 | 48.0 | 45.6 | 72.1 | 38.9 | 48.5 | 31.7 | 29.5 |
| | 72 | 57.3 | 66.3 | 49.6 | 61.7 | 44.0 | 41.8 | 66.1 | 34.1 | 42.9 | 27.3 | 25.4 |
| | 78 | 52.9 | 61.2 | 45.7 | 57.0 | 40.6 | 38.6 | 61.0 | 30.1 | 38.1 | 23.5 | 21.8 |
| 192 | 48 | 83.8 | 90.0 | 72.4 | 90.0 | 64.3 | 61.0 | 90.0 | 58.4 | 71.3 | 49.4 | 46.4 |
| | 54 | 74.4 | 86.1 | 64.4 | 80.1 | 57.1 | 54.2 | 85.8 | 50.1 | 61.5 | 41.9 | 39.3 |
| | 60 | 67.0 | 77.5 | 57.9 | 72.1 | 51.4 | 48.8 | 77.3 | 43.4 | 53.7 | 35.9 | 33.5 |
| | 66 | 60.9 | 70.4 | 52.7 | 65.6 | 46.7 | 44.4 | 70.2 | 37.9 | 47.2 | 30.9 | 28.7 |
| | 72 | 55.8 | 64.6 | 48.3 | 60.1 | 42.9 | 40.7 | 64.4 | 33.2 | 41.8 | 26.6 | 24.7 |
| | 78 | 51.5 | 59.6 | 44.6 | 55.5 | 39.6 | 37.6 | 59.4 | 29.3 | 37.1 | 22.9 | 21.2 |
| 204 | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 69.1 | 65.6 | 71.0 | 64.9 | 71.0 | 55.5 | 52.1 |
| | 48 | 71.0 | 71.0 | 68.1 | 71.0 | 60.5 | 57.4 | 71.0 | 54.9 | 71.0 | 46.5 | 43.6 |
| | 54 | 70.1 | 71.0 | 60.6 | 71.0 | 53.8 | 51.1 | 71.0 | 47.1 | 57.9 | 39.5 | 36.9 |
| | 60 | 63.1 | 71.0 | 54.5 | 67.9 | 48.4 | 45.9 | 71.0 | 40.8 | 50.5 | 33.8 | 31.5 |
| | 66 | 57.3 | 66.3 | 49.6 | 61.7 | 44.0 | 41.8 | 66.1 | 35.7 | 44.4 | 29.0 | 27.0 |
| | 72 | 52.5 | 60.8 | 45.4 | 56.6 | 40.3 | 38.3 | 60.6 | 31.3 | 39.3 | 25.0 | 23.2 |
| 216 | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 65.3 | 62.0 | 71.0 | 61.3 | 71.0 | 52.4 | 49.2 |
| | 48 | 71.0 | 71.0 | 64.4 | 71.0 | 57.1 | 54.2 | 71.0 | 51.9 | 63.4 | 43.9 | 41.2 |
| | 54 | 66.2 | 71.0 | 57.2 | 71.0 | 50.8 | 48.2 | 71.0 | 44.5 | 54.7 | 37.3 | 34.9 |
| | 60 | 59.6 | 68.9 | 51.5 | 64.1 | 45.7 | 43.4 | 68.7 | 38.6 | 47.7 | 31.9 | 29.8 |
| | 66 | 54.1 | 62.6 | 46.8 | 58.3 | 41.6 | 39.5 | 62.4 | 33.7 | 42.0 | 27.4 | 25.5 |
| | 74 | 48.3 | 55.8 | 41.7 | 52.0 | 37.1 | 35.2 | 55.7 | 28.3 | 35.7 | 22.5 | 20.9 |
| 231 | 36 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 67.6 | 71.0 | 69.0 | 71.0 | 59.5 | 56.0 |
| | 42 | 71.0 | 71.0 | 71.0 | 71.0 | 61.1 | 58.0 | 71.0 | 57.3 | 71.0 | 49.0 | 46.0 |
| | 48 | 71.0 | 71.0 | 60.2 | 71.0 | 53.4 | 50.7 | 71.0 | 48.5 | 59.3 | 41.1 | 38.5 |
| | 54 | 61.9 | 71.0 | 53.5 | 71.0 | 47.5 | 45.1 | 71.0 | 41.6 | 51.2 | 34.9 | 32.6 |
| | 60 | 55.7 | 66.5 | 48.1 | 59.9 | 42.7 | 40.6 | 66.5 | 36.1 | 44.6 | 29.8 | 27.8 |
| | 70 | 47.7 | 54.9 | 41.3 | 51.4 | 36.6 | 34.8 | 54.9 | 28.8 | 36.1 | 23.2 | 21.6 |

WALL SECTION 1 NOTES:

1. THE ALLOWABLE ANCHOR DESIGN PRESSURES LISTED ARE FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS. ALLOWABLE ANCHOR DESIGN PRESSURES FOR UNEQUAL SPANS WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A TEXAS LICENSED ENGINEER.
2. THE ALLOWABLE DESIGN PRESSURES LISTED FOR WINDLOAD/DEADLOAD ANCHORS ARE BASED ON 288" MAX. MULLION LENGTHS AND STANDARD ANCHOR CONFIGURATIONS AS SHOWN. ALLOWABLE DESIGN PRESSURES FOR LONGER MULLION LENGTHS OR FOR ANY DEVIATIONS FROM THE ANCHORS SHOWN WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A TEXAS LICENSED ENGINEER.

| | |
|-------------------|-------|
| 07/01/21 | DATE |
| 1ST SUBMITTAL | REV.# |
| PRINTS ISSUED FOR | |

KAWNEER
AN ARCONIC COMPANY

PH: (770) 449-5555
WWW.KAWNEER.COM

555 GUTHRIDGE COURT
NORCROSS, GA 30092



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING &
CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

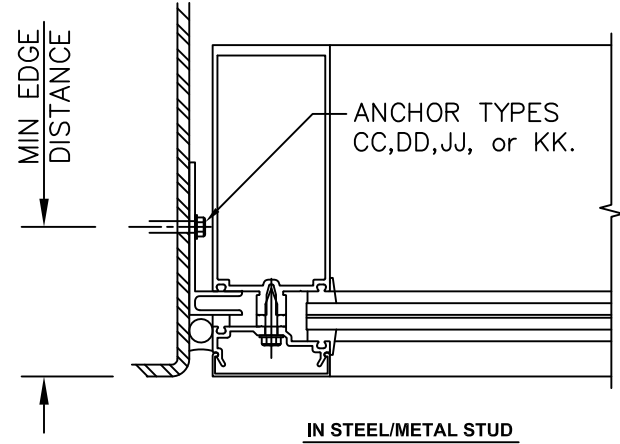
PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

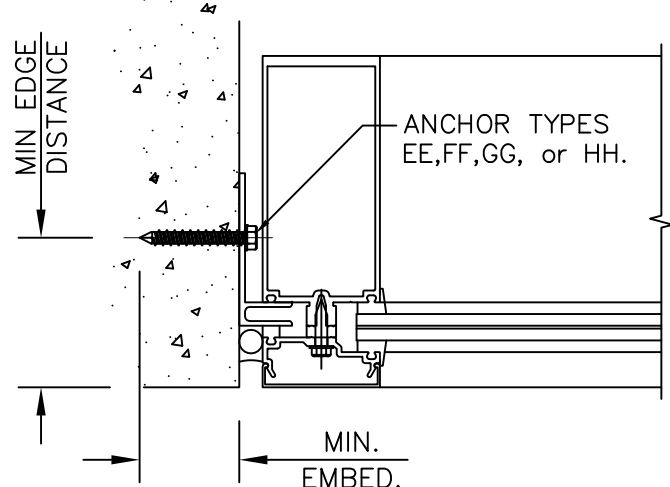
SECTION:
6

SHEET:
37/42

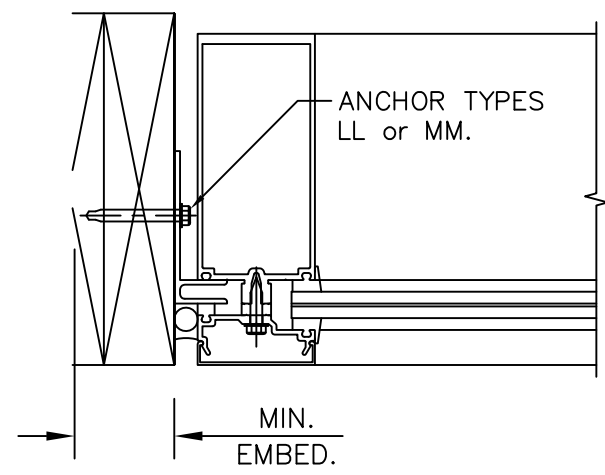
FASTENED JAMB DETAILS F-PERIMETER ANCHOR CHARTS



IN STEEL/METAL STUD



IN CONCRETE/CMU



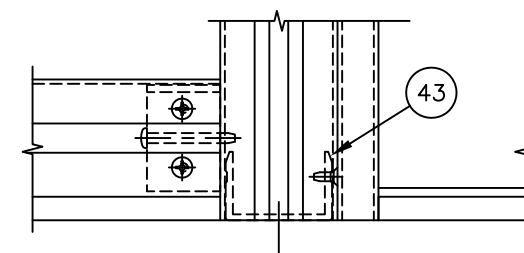
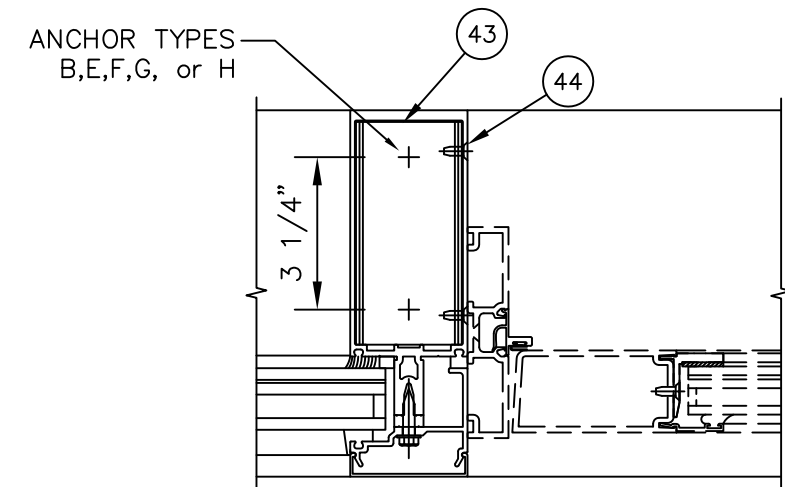
IN WOOD

| JAMB F-PERIMETER ANCHORS | | | | | |
|--|------|--|----------------|------------------------|-------------------|
| SUBSTRATE | MARK | TYPE | MIN EMBED (in) | MIN EDGE DISTANCE (in) | MAX REACTION (lb) |
| STRUCTURAL STEEL (1/4", A36 min) | CC | 1/4" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) | FULL* | 3/4" | 425 lb. |
| | DD | 1/4" DIA. ELCO DRIL-FLEX | FULL* | 3/4" | 581 lb. |
| CONCRETE (2846 psi min) | EE | 1/4" DIA. ELCO ULTRACON | 1 3/4" | 2 1/2" | 357 lb. |
| CONCRETE (3515 psi min) | FF | 5/16" DIA. ELCO ULTRACON | 1 3/4" | 3 1/8" | 581 lb. |
| CMU (ASTM C-90 GRADE N, TYPE 1 min) | GG | 1/4" DIA. ELCO ULTRACON | 1 3/4" | 2 1/2" | 200 lb. |
| | HH | 5/16" DIA. ELCO ULTRACON | 1 3/4" | 2 1/2" | 296 lb. |
| METAL STUD (16 Ga, 45 ksi min) | JJ | 1/4" DIA. F-TYPE SCREW (Fu=120 ksi min) | FULL* | 3/4" | 357 lb. |
| | KK | 1/4" DIA. ELCO DRIL-FLEX | FULL* | 3/4" | 357 lb. |
| WOOD (S.G.=0.5 min) | LL | 1/4" DIA. ELCO ULTRACON | 1 3/4" | 1 5/8" | 196 lb. |
| | MM | 5/16" DIA. ELCO ULTRACON | 1 3/4" | 1 3/4" | 357 lb. |

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

| WINDLOAD (+/- psf) | JAMB DLO WIDTH (in) | JAMB F-PERIMETER MAX. FASTENER SPACING (in) | | | | | | | | | |
|-----------------------|------------------------|---|----|----|----|----|----|----|----|----|----|
| | | CC | DD | EE | FF | GG | HH | JJ | KK | LL | MM |
| 60 | 48 | 18 | 24 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 32 |
| | 60 | 18 | 24 | 18 | 18 | 15 | 18 | 18 | 18 | 14 | 26 |
| | 72 | 18 | 24 | 18 | 18 | 12 | 18 | 18 | 18 | 12 | 22 |
| | 84 | 18 | 24 | 18 | 18 | 11 | 16 | 18 | 18 | 11 | 19 |
| | 96 | 18 | 24 | 17 | 18 | 10 | 14 | 17 | 17 | 9 | 17 |
| 75 | 48 | 18 | 24 | 18 | 18 | 14 | 18 | 18 | 18 | 14 | 26 |
| | 60 | 18 | 24 | 18 | 18 | 12 | 17 | 18 | 18 | 12 | 21 |
| | 72 | 18 | 24 | 18 | 18 | 10 | 15 | 18 | 18 | 10 | 18 |
| | 84 | 18 | 24 | 15 | 18 | 9 | 13 | 15 | 15 | 8 | 15 |
| | 96 | 16 | 22 | 14 | 18 | 8 | 11 | 14 | 14 | 7 | 14 |
| 90 | 48 | 18 | 24 | 18 | 18 | 12 | 18 | 18 | 18 | 12 | 22 |
| | 60 | 18 | 24 | 18 | 18 | 10 | 15 | 18 | 18 | 10 | 18 |
| | 72 | 18 | 24 | 15 | 18 | 8 | 12 | 15 | 15 | 8 | 15 |
| | 84 | 15 | 21 | 13 | 18 | 7 | 11 | 13 | 13 | 7 | 13 |
| | 96 | 13 | 18 | 11 | 18 | 6 | 9 | 11 | 11 | 6 | 11 |
| 100 | 48 | 18 | 24 | 18 | 18 | 11 | 16 | 18 | 18 | 11 | 19 |
| | 60 | 18 | 24 | 16 | 18 | 9 | 13 | 16 | 16 | 9 | 16 |
| | 72 | 16 | 22 | 13 | 18 | 7 | 11 | 13 | 13 | 7 | 13 |
| | 84 | 14 | 19 | 12 | 18 | 6 | 10 | 12 | 12 | 6 | 12 |
| | 96 | 12 | 17 | 10 | 17 | 6 | 8 | 10 | 10 | 6 | 10 |
| 110 | 48 | 18 | 24 | 18 | 18 | 11 | 16 | 18 | 19 | 11 | 19 |
| | 60 | 17 | 23 | 14 | 18 | 8 | 12 | 14 | 14 | 8 | 14 |
| | 72 | 14 | 20 | 12 | 18 | 7 | 10 | 12 | 12 | 7 | 12 |
| | 84 | 13 | 17 | 11 | 17 | 6 | 9 | 11 | 11 | 6 | 11 |
| | 96 | 11 | 15 | 9 | 15 | - | 8 | 9 | 9 | 5 | 9 |
| 120 | 48 | 18 | 24 | 16 | 18 | 9 | 13 | 16 | 16 | 9 | 16 |
| | 60 | 16 | 21 | 13 | 18 | 7 | 11 | 13 | 13 | 7 | 13 |
| | 72 | 13 | 18 | 11 | 18 | 6 | 9 | 11 | 11 | 6 | 11 |
| | 84 | 11 | 16 | 10 | 16 | - | 8 | 10 | 10 | 5 | 10 |
| | 96 | 10 | 14 | 8 | 14 | - | 7 | 8 | 8 | 5 | 8 |
| 127 | 48 | 18 | 24 | 15 | 18 | 9 | 13 | 15 | 15 | 8 | 15 |
| | 60 | 15 | 20 | 12 | 18 | 7 | 10 | 12 | 12 | 7 | 12 |
| | 72 | 13 | 17 | 11 | 17 | 6 | 9 | 11 | 11 | 6 | 11 |
| | 84 | 11 | 15 | 9 | 15 | - | 8 | 9 | 9 | 5 | 9 |
| | 96 | 10 | 13 | 8 | 13 | - | 7 | 8 | 8 | 4 | 8 |

DOORJAMB ANCHORS



ANCHOR CONFIGURATIONS B & F ARE APPROVED FOR ALL MULLION SIZES AND PRESSURES SHOWN IN THE MULLION CHARTS ON SHEETS 14-20. ANCHOR CONFIGURATIONS E, G, & H ARE APPROVED FOR USE UP TO THE DESIGN PRESSURES LISTED IN THE CHARTS ON SHEETS 31-32.

| | |
|-------------------|-------|
| 07/01/21 | DATE |
| 1ST SUBMITTAL | REV.# |
| PRINTS ISSUED FOR | |

KAWNEER
AN ARCONIC COMPANY

PH: (770) 449-5555
WWW.KAWNEER.COM

555 GUTHRIDGE COURT
NORCROSS, GA 30092



10/27/2021
LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING &
CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NATCHEZ
TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-TDI

SECTION:
6

SHEET:
38/42

BILL OF MATERIALS

| BILL OF MATERIALS | | | | |
|-------------------|----------|---|-----------------------------|--|
| NO. | PART NO. | DESCRIPTION | DIMENSIONS | MATERIAL |
| 01 | 162311 | "F" ANCHOR | 3.250 x 8.000 x 0.250 | 6063 T6 ALUMINUM |
| 02 | 162312 | "T" ANCHOR | 3.250 x 8.500 x 0.250 | 6063 T6 ALUMINUM |
| 03 | 162006 | COVER | 2.500 x 0.504 x 0.060 | 6063 T6 ALUMINUM |
| 04 | 162097 | 6-3/4" OPEN BACK HORIZONTAL | 2.479 x 5.750 x 0.100 | 6063 T6 ALUMINUM |
| 05 | 162518 | PERIMETER OFFSET PRESSURE PLATE | 2.500 x 1.347 x 0.100 | 6063 T6 ALUMINUM |
| 06 | 128405 | #12 x 7/8" AB FHTF | #12 x 7/8" AB FHTF | 300 SERIES STAINLESS STEEL |
| 07 | 128394 | #12 x 1-7/8" TYPE I CRPHTFS B | #12 x 1-7/8" B PHTF | 430 SERIES STAINLESS STEEL |
| 08 | 162332 | 7-1/2" HEAD / SILL SHEAR BLOCK | 4.395 x 2.115 x 0.125 | 6063 T6 ALUMINUM |
| 09 | 162020 | OPEN BACK FILLER | 0.434 x 4.973 x 0.090 | 6063 T6 ALUMINUM |
| 10 | 162517 | OFFSET PRESSURE PLATE | 2.500 x 0.847 x 0.100 | 6063 T6 ALUMINUM |
| 11 | 162091 | 7-1/2" OPEN BACK HORIZONTAL | 2.479 x 6.500 x 0.100 | 6063 T6 ALUMINUM |
| 12 | 162378 | 7-1/2" SHEAR BLOCK | 4.395 x 2.270 x 0.125 | 6063 T6 ALUMINUM |
| 13 | 162093 | 6-3/4" OPEN BACK HORIZONTAL | 2.479 x 5.750 x 0.100 | 6063 T6 ALUMINUM |
| 14 | 162003 | LIGHT 7-1/2" VERTICAL / HORIZONTAL | 2.479 x 6.500 x 0.100 | 6063 T6 ALUMINUM |
| 15 | 162016 | HEAVY 6-3/4" VERTICAL / HORIZONTAL | 2.479 x 5.750 x 0.100 | 6063 T6 ALUMINUM |
| 16 | 162377 | 6" SHEAR BLOCK | 2.895 x 2.270 x 0.125 | 6063 T6 ALUMINUM |
| 17 | 162001 | LIGHT 6" HORIZONTAL | 2.500 x 5.000 x 0.100 | 6063 T6 ALUMINUM |
| 18 | 162405 | SHEAR BLOCK AT 90 DEG CORNERS | 1.460 x 2.270 x 0.125 | 6063 T6 ALUMINUM |
| 19 | 028843 | #12 x 1/2" TYPE I CRFCHT SB | #12 x 1/2" TYPE I CRFCHT SB | 300 SERIES STAINLESS STEEL |
| 20 | 162528 | 1-5/16" PERIMETER OFFSET PRESSURE PLATE | 2.500 x 2.097 x 0.100 | 6063 T6 ALUMINUM |
| 21 | 162095 | 7-1/2" OPEN BACK HORIZONTAL FOR 1" FRAME | 2.479 x 6.500 x 0.100 | 6063 T6 ALUMINUM |
| 22 | 162516 | JAMB OFFSET PRESSURE PLATE | 2.500 x 0.847 x 0.100 | 6063 T6 ALUMINUM |
| 24 | 162176 | F PERIMETER FOR 1/4" FRAME | 3.250 x 1.125 x 0.100 | 6063 T6 ALUMINUM |
| 25 | 162017 | F PERIMETER FOR 1" FRAME | 4.000 x 1.125 x 0.100 | 6063 T6 ALUMINUM |
| 26 | 162004 | HEAVY 7-1/2" VERTICAL / HORIZONTAL FOR 1" FRAME | 2.500 x 6.500 x 0.100 | 6063 T6 ALUMINUM |
| 27 | 166017 | 7-1/2" HEAVY SSG VERTICAL | 2.500 x 5.250 x 0.100 | 6063 T6 ALUMINUM |
| 28 | 162222 | 90 DEG CORNER ADAPTER | 2.500 x 3.745 x 0.100 | 6063 T6 ALUMINUM |
| 29 | 809331 | CUSTOM 90 DEG CORNER ADAPTER | 2.500 x 4.344 x 0.100 | 6063 T5 ALUMINUM (#10 FINISH) |
| 30 | 176012 | 90 DEG OUTSIDE CORNER COVER | 2.482 x 0.504 x 0.060 | 6063 T6 ALUMINUM |
| 31 | 162255 | 7-1/2" 90 DEG OUTSIDE CORNER COVER | 2.500 x 2.458 x 0.080 | 6063 T6 ALUMINUM |
| 32 | 162254 | 7-1/2" 90 DEG OUTSIDE CORNER SSG MULLION | 2.500 x 6.473 x 0.125 | 6063 T6 ALUMINUM |
| 33 | 128348 | 10-16 x 1-1/4" FHSMD | 10-16 x 1-1/4" FHSMD | 400 SERIES STAINLESS STEEL |
| 34 | 162307 | 7-1/2" SLEEVE | 2.260 x 4.750 x 0.125 | 6063 T6 ALUMINUM |
| 35 | 128267 | 12 x 1" TYPE I CRPHTFS AB | 12 x 1" TYPE I CRPHTFS AB | 300 SERIES STAINLESS STEEL |
| 36 | 162313 | SLEEVE FOR EXTERIOR COVER 3/4" | 2.219 x 0.187 x 0.031 | .031 5005 H32 SHEET ALUMINUM FINISH |
| 37 | 162306 | 6" SLEEVE | 2.260 x 3.250 x 0.125 | 6063 T6 ALUMINUM |
| 38 | 162301 | MATING STEEL REINFORCING 1 | 1.750 x 4.560 x 0.164 | GRADE 50 STEEL |
| 39 | 904208 | 1/4 x 2" FCHTCS D/F | 1/4 x 2" FCHTCS D/F | 300 SERIES STAINLESS STEEL |
| 40 | 162302 | MATING STEEL REINFORCING 2 | 1.500 x 3.810 x 0.164 | GRADE 50 STEEL |
| 41 | 162303 | MATING STEEL REINFORCING 3 | 1.250 x 3.388 x 0.164 | GRADE 50 STEEL |
| 42 | N/A | 1" x 3" STEEL (BY OTHERS) | 1.000 x 3.000 | GRADE 50 STEEL |
| 43 | 162320 | 7-1/2" SHEAR BLOCK AT DOOR | 1.460 x 2.270 x 0.125 | 6063 T6 ALUMINUM |
| 44 | 128910 | 10 x 1/2" TYPE I CRFCHTFS B | 10 x 1/2" TYPE I CRFCHTFS B | 300 SERIES STAINLESS STEEL |
| 45 | 977110 | 10 x 5/8" TYPE I CRFCHTFS B | 10 x 5/8" TYPE I CRFCHTFS B | 300 SERIES STAINLESS STEEL |
| 46 | 028596 | 3/8" FLAT WASHER TYPE A - NARROW | DIA 0.750 x 0.040 | 300 SERIES STAINLESS STEEL |
| 47 | 028779 | 3/8" HELICAL SPRING LOCK WASHER | DIA 0.869 x 0.125 | 300 SERIES STAINLESS STEEL |
| 48 | 028778 | 3/8"-16 x 1-1/2" HCS B | 3/8"-16 x 1-1/2" HCS B | 400 SERIES STAINLESS STEEL |
| 49 | 027477 | ALUMINUM TO STEEL SEPARATOR | 2.000 x 4.500 x 0.031 | THERMO-TORK TN-9004 NON-ASBESTOS GASKET |
| 50 | 162507 | ANCHOR PLATE AT JAMBS | 3.000 x 0.188 | 6063 T6 ALUMINUM |
| 51 | 216301 | 1/2" SLIP PLAIN WASHER | DIA 1.250 x 0.063 | #101 NYLON NATURAL COLOR BY JET FASTENER |
| 52 | 128392 | 3/8"-16 HEX LOCKNUT | 0.563 x 0.650 | 300 SERIES STAINLESS STEEL |
| 53 | 128918 | 3/8-16 x 4-1/2" PRHHMS | 3/8-16 x 4-1/2" PRHHMS | 300 SERIES STAINLESS STEEL |
| 54 | N/A | 1 1/4" x 4 1/2" BAR STEEL | 1 1/4" x 4 1/2" BAR STEEL | GRADE 50 STEEL |
| 55 | N/A | 1 3/4" x 4-1/2" BAR STEEL | 1 3/4" x 4-1/2" BAR STEEL | GRADE 50 STEEL |
| 56 | 162519 | HIGH PRESSURE SHEAR BLOCK | 2.217" x 4.718" x 1.5" | 6063-T6 ALUMINUM |
| 57 | 128284 | #12 x 1 1/2" AB FHTF SCREW | #12 x 1 1/2" AB FHTF | 400 SERIES STAINLESS STEEL |
| 58 | 162014 | LIGHT 5 1/4" HORIZONTAL | 2.500 x 4.25 x 0.100 | 6063 T6 ALUMINUM |
| 59 | 162218 | 3/8-16 x 4-1/2" PRHHMS | 1.125 x 6.848 x .125 | 6063-T6 ALUMINUM |
| 60 | 162219 | HIGH PRESSURE SHEAR BLOCK | 2.328 x 6.912 x .125 | 6063-T6 ALUMINUM |
| 61 | 162249 | #12 x 1 1/2" AB FHTF SCREW | 1.125 x 7.598 x .125 | 6063 T6 ALUMINUM |
| 62 | 162250 | LIGHT 5 1/4" HORIZONTAL | 2.328 x 7.662 x 0.125 | 6063 T6 ALUMINUM |
| 63 | 162521 | SHEAR BLOCK - EXPANSION HORIZONTAL | 1.50 x .750 x .125 x 4.25 | 6063 T6 ALUMINUM |
| 64 | 162250 | CORNER SHEAR BLOCK - EXP. HORIZONTAL | 1.50 x .750 x .125 x 4.25 | 6063 T6 ALUMINUM |

| GLAZING MATERIALS | | | | |
|-------------------|----------|---|-------------------------|----------------------------------|
| NO. | PART NO. | DESCRIPTION | DIMENSIONS | MATERIAL |
| 81 | 162310 | THERMAL SEPARATOR | 0.626 x 0.600 | SHORE "A" 60±5 DUROMETER EPDM |
| 82 | 027845 | TAPE | 0.313 x 0.250 | BLACK POLYURETHANE FOAM |
| 83 | 128406 | 1/4 x 1" HWHTFS AB | 1/4 x 1" HWHTFS AB | 300 SERIES STAINLESS STEEL |
| 84 | N/A | STRUCTURAL SILICONE SEALANT (BY OTHERS) | N/A | SILICONE |
| 85 | 027850 | FIXED GASKET | 0.615 x 0.630 | SHORE "A" 60±5 DUROMETER EPDM |
| 86 | 027342 | SETTING BLOCK | 0.563 x 0.188 | SHORE "A" 80±5 DUROMETER EPDM |
| 87 | 027081 | SETTING BLOCK | 1.875 x 4.125 x 0.250 | SHORE "A" 85±5 DUROMETER EPDM |
| 88 | 127254 | 3M VHB 3/4" SG TAPE B23 | 0.750 x 0.090 | CONFORMABLE ACRYLIC FOAM |
| 89 | 128475 | 8 x 1" TYPE I CRPHTFS A | 8 x 1" TYPE I CRPHTFS A | 300 SERIES STAINLESS STEEL |
| 90 | 611002 | SUPPORT/STIFFENER ACM PANEL | 0.750 x 1.093 x 0.090 | 6063 T6 ALUMINUM |
| 91 | N/A | DOW CORNING | N/A | 995 SILICONE SEALANT (BY OTHERS) |
| 92 | 127143 | TAPE | 1.000 x 0.250 | BLACK POLYURETHANE FOAM |
| 93 | 127150 | SETTING BLOCK | 1.688 x 0.437 | SHORE "A" DUROMETER EPDM |
| 94 | 027367 | SETTING BLOCK | 0.750 x 0.438 | SHORE "A" 85±5 DUROMETER EPDM |
| 95 | 127196 | SS EXTERIOR GASKET | 0.928 x 0.615 | SHORE "A" 60±5 DUROMETER EPDM |
| 96 | 128401 | 10 x 1" TYPE I CRFCHTFS | 10 x 1" TYPE I CRFCHTFS | 300 SERIES STAINLESS STEEL |
| 97 | 027857 | FIXED GASKET | 0.310 x 0.360 | SHORE "A" 70±5 DUROMETER EPDM |

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LUCAS A. TURNER
TX P.E. #115094

TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075

2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2

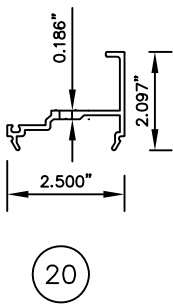
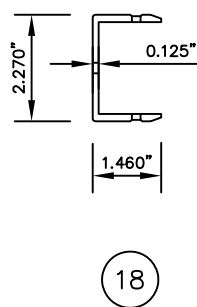
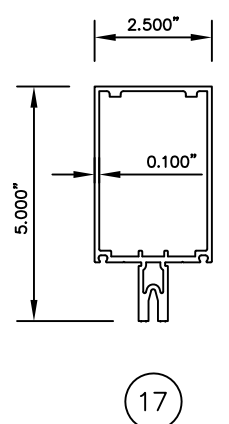
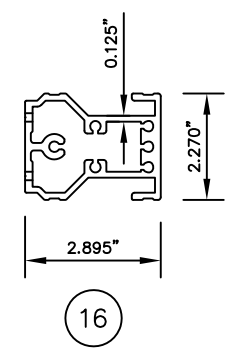
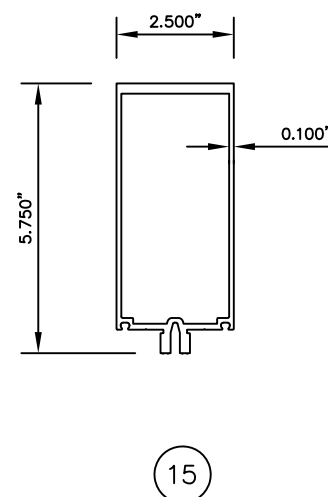
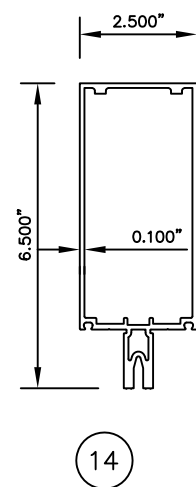
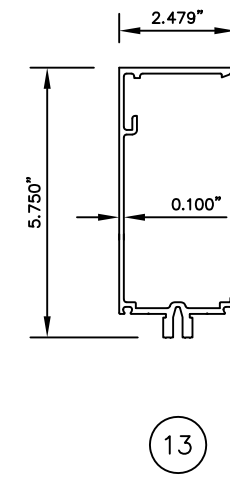
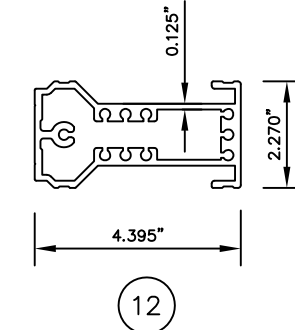
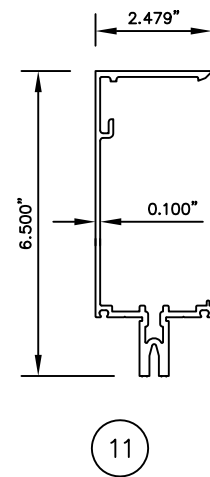
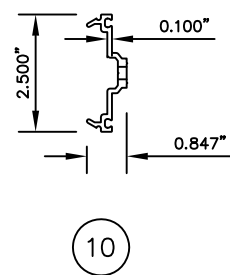
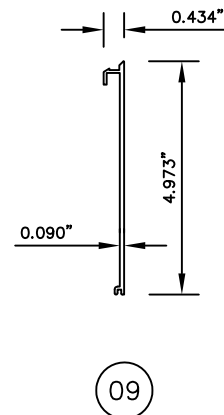
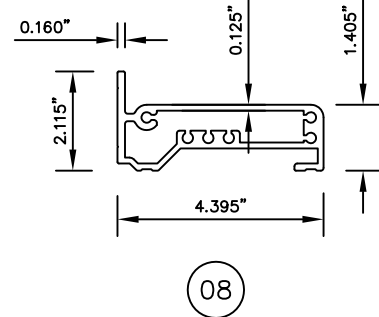
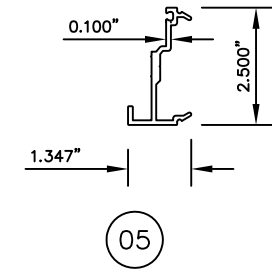
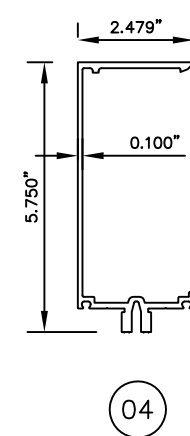
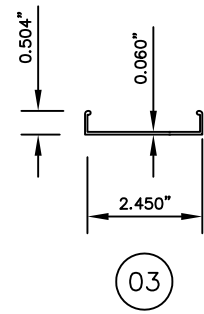
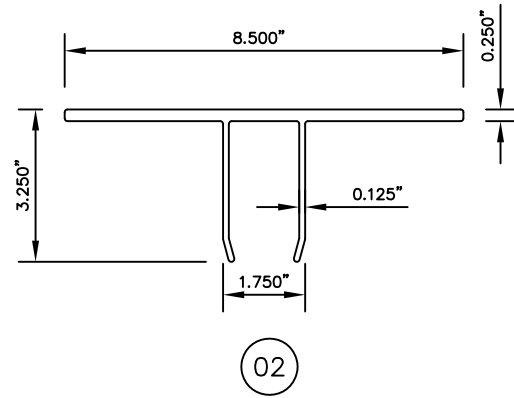
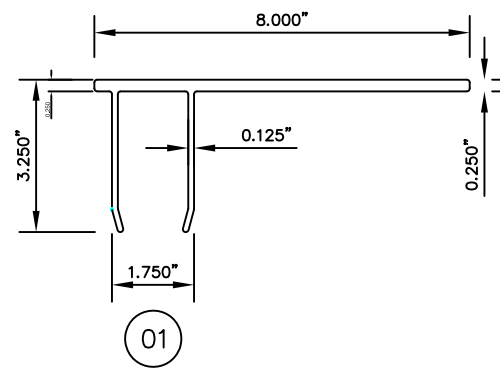
DWG:
1600-IR-TDI

SECTION:
7

SHEET:
39/42

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| 07/01/21 | DATE |
| 1ST SUBMITTAL | REV.# |
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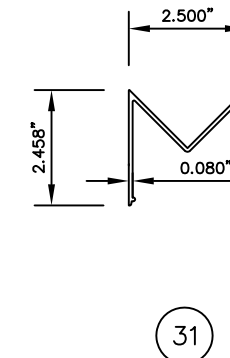
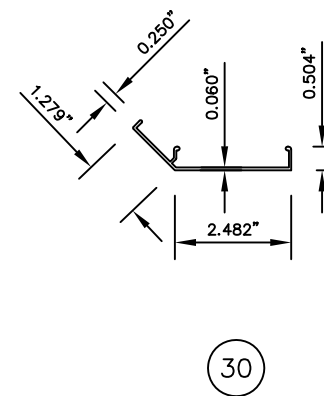
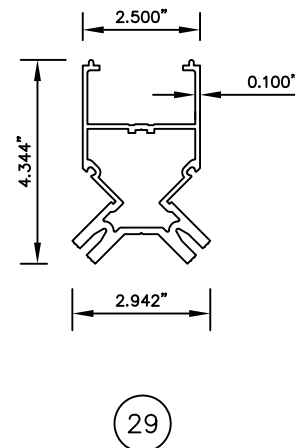
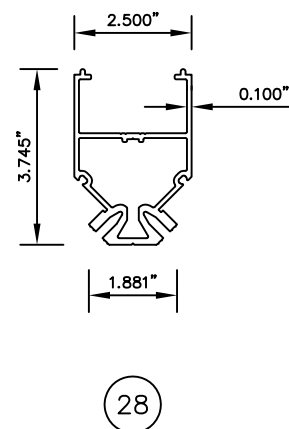
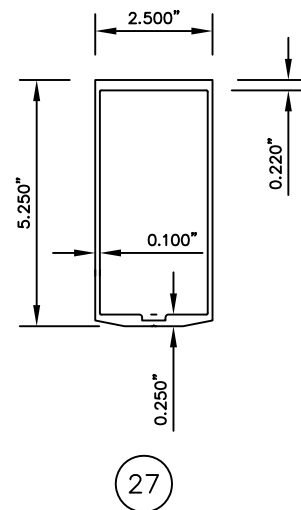
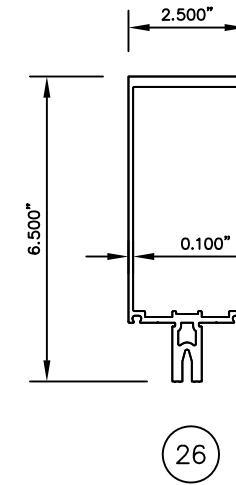
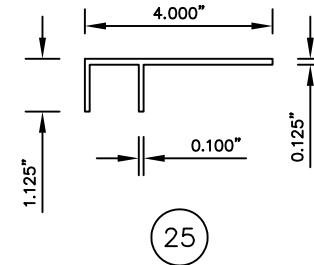
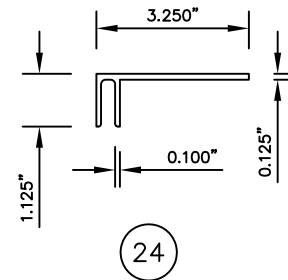
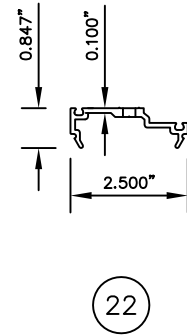
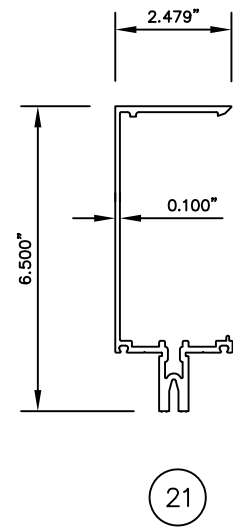


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LUCAS A. TURNER
TX P.E. #115094
TURNER ENGINEERING & CONSULTING, INC.
TBPE REG. #F-18075
2428 OLD NACHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-TDI
SECTION:
7
SHEET:
40/42

| REV.# | DATE |
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EXTRUSION PROFILES



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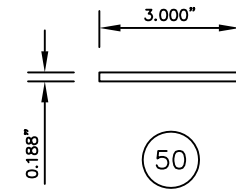
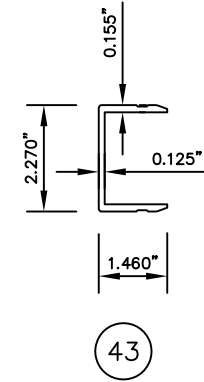
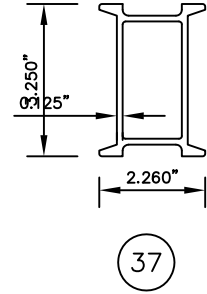
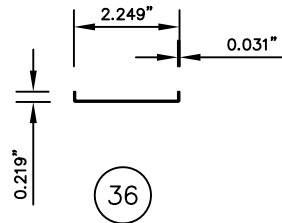
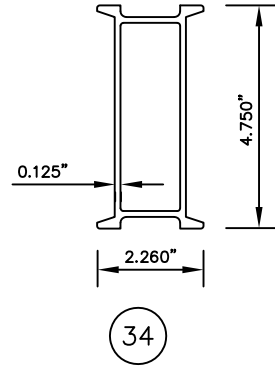
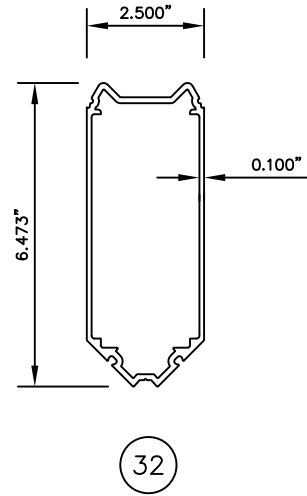


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PRODUCT:
**1600 WALL
SYSTEM 1 & 2**
DWG:
1600-IR-TDI
SECTION:
7
SHEET:
41/42

| REV.# | DATE |
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PRODUCT:
**1600 WALL
 SYSTEM 1 & 2**

DWG:
1600-IR-TDI

SECTION:
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