

# KNOTWOOD - 1 INCH BATTEN GENERIC DETAILS AND SPAN TABLES

PROPERTY MANAGER:  
PER ARCHITECT / ENGINEER

DESIGN ENGINEER:  
PVE, LLC  
2000 GEORGETOWN DRIVE, SUITE 101  
SEWICKLEY, PA 15143

| DRAWING LIST |   |                                              | LATEST REVISION | DATE |
|--------------|---|----------------------------------------------|-----------------|------|
| T-001        | - | TITLE SHEET                                  |                 |      |
| S-001        | - | GENERAL NOTES                                |                 |      |
| S-100        | - | V2 VERTICAL BATTEN SPAN TABLES               |                 |      |
| S-101        | - | V2 HORIZONTAL BATTEN SPAN TABLES             |                 |      |
| S-200        | - | WIDE VERTICAL BATTEN SPAN TABLES             |                 |      |
| S-201        | - | WIDE HORIZONTAL BATTEN SPAN TABLES           |                 |      |
| S-300        | - | MISC 1IN CLIP VERTICAL BATTEN SPAN TABLES    |                 |      |
| S-301        | - | MISC 1IN CLIP HORIZONTAL BATTEN SPAN TABLES  |                 |      |
| S-400        | - | TYPICAL VERTICAL BATTEN CONNECTION DETAILS   |                 |      |
| S-401        | - | TYPICAL HORIZONTAL BATTEN CONNECTION DETAILS |                 |      |
| S-402        | - | MISC BATTEN CONNECTIONS                      |                 |      |

ABBREVIATIONS:

|        |                                          |
|--------|------------------------------------------|
| ABV    | ABOVE                                    |
| ACI    | AMERICAN CONCRETE INSTITUTE              |
| ACIP   | AUGERED CAST-IN-PLACE PILES              |
| ADD'L  | ADDITIONAL                               |
| AE     | AIR-ENTRAINED                            |
| AISC   | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| ANSI   | AMERICAN NATIONAL STANDARDS INSTITUTE    |
| APPROX | APPROXIMATELY                            |
| AR     | ANCHOR ROD                               |
| ARCH   | ARCHITECTURAL                            |
| ASCE   | AMERICAN SOCIETY OF CIVIL ENGINEERS      |
| ASTM   | AMERICAN SOCIETY FOR TESTING & MATERIALS |
| AWS    | AMERICAN WELDING SOCIETY                 |
| B      | BOTTOM                                   |
| B/     | BOTTOM OF                                |
| BH     | BULKHEAD                                 |
| BLDG   | BUILDING                                 |
| BM     | BEAM                                     |
| BOT    | BOTTOM                                   |
| CJP    | COMPLETE JOINT PENETRATION               |
| CLR    | CLEAR                                    |

ABBREVIATIONS (CONT.):

|       |                                                |
|-------|------------------------------------------------|
| CLSM  | CONTROLLED LOW STRENGTH MATERIAL               |
| CMU   | CONCRETE MASONRY UNIT                          |
| CO    | CLEAN OUT                                      |
| COL   | COLUMN                                         |
| CONC  | CONCRETE                                       |
| CONT  | CONTINUOUS                                     |
| COORD | COORDINATE                                     |
| COTR  | CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE |
| db    | REINFORCING BAR DIAMETER                       |
| DIA   | DIAMETER                                       |
| DN    | DOWN                                           |
| DTLS  | DETAILS                                        |
| DWG   | DRAWING                                        |
| DWLS  | DOWELS                                         |
| E     | EXISTING                                       |
| EA    | EACH                                           |
| EF    | EACH FACE                                      |
| EL    | ELEVATION                                      |
| ELECT | ELECTRICAL                                     |
| ELEV  | ELEVATOR                                       |
| EMBED | EMBEDMENT                                      |

ABBREVIATIONS (CONT.):

|       |                     |
|-------|---------------------|
| EOS   | EDGE OF SLAB        |
| EQ    | EQUAL               |
| EQUIP | EQUIPMENT           |
| EW    | EACH WAY            |
| EXIST | EXISTING            |
| EXP   | EXPANSION           |
| FT    | FOOT/FEET           |
| FTG   | FOOTING             |
| FE    | FIRE ESCAPE         |
| GALV  | GALVANIZE           |
| GL    | GRIDLINE            |
| H     | HIGH                |
| HORIZ | HORIZONTAL          |
| HP    | HIGH POINT          |
| HS    | HIGH STRENGTH       |
| HSA   | HEADED SHEAR ANCHOR |
| IN    | INCH(ES)            |
| IP    | INFLECTION POINT    |
| I.F.  | INSIDE FACE         |
| JT    | JOINT               |
| K     | KIPS (1000 POUNDS)  |

ABBREVIATIONS (CONT.):

|       |                              |
|-------|------------------------------|
| kN    | KILONEWTON                   |
| kPa   | KILOPASCAL                   |
| l     | LITER                        |
| L     | LENGTH                       |
| LBS   | POUNDS                       |
| Ld    | REINF BAR DEVELOPMENT LENGTH |
| LLH   | LONG LEG HORIZ               |
| LLV   | LONG LEG VERT                |
| LP    | LOW POINT                    |
| LTWT  | LIGHT WEIGHT                 |
| m     | METER                        |
| mm    | MILLIMETER                   |
| MAX   | MAXIMUM                      |
| MANUF | MANUFACTURER                 |
| MECH  | MECHANICAL                   |
| MEP   | MECH/ELECT/PLUMBING          |
| MIN   | MINIMUM                      |
| MPa   | MEGAPASCAL                   |
| MTL   | METAL                        |
| N     | NEWTON                       |
| NLWT  | NORMAL WEIGHT                |

ABBREVIATIONS (CONT.):

|       |                              |
|-------|------------------------------|
| (N)   | NEW                          |
| OC    | ON CENTER                    |
| OPNG  | OPENING                      |
| OPP   | OPPOSITE                     |
| O.F.  | OUTER FACE                   |
| PJP   | PARTIAL JOINT PENETRATION    |
| PSF   | POUNDS PER SQUARE FOOT       |
| PSI   | POUNDS PER SQUARE INCH       |
| PT    | POST-TENSION                 |
| R     | RISER                        |
| REF   | REFERENCE                    |
| REINF | REINFORCING OR REINFORCEMENT |
| REQ'D | REQUIRED                     |
| SCHED | SCHEDULE                     |
| SC    | SLIP CRITICAL                |
| SDI   | STEEL DECK INSTITUTE         |
| SDL   | SUPERIMPOSED DEAD LOAD       |
| SEC   | SECONDS                      |
| SIM   | SIMILAR                      |
| SJI   | STEEL JOIST INSTITUTE        |
| SLV   | SHORT LED (DIM) VERTICAL     |

ABBREVIATIONS (CONT.):

|        |                                   |
|--------|-----------------------------------|
| SOG    | SLAB-ON-GRADE                     |
| STD    | STANDARD                          |
| STL    | STEEL                             |
| STRUCT | STRUCTURAL                        |
| T      | TOP OF TREAD                      |
| T/     | TOP OF                            |
| TOF    | TOP OF FOOTING                    |
| TOS    | TOP OF STEEL                      |
| THK    | THICK                             |
| TMS    | THE MASONRY SOCIETY               |
| TYP    | TYPICAL                           |
| UNO    | UNLESS NOTED OTHERWISE            |
| VERT   | VERTICAL                          |
| W/C    | WATER-CEMENTITIOUS MATERIAL RATIO |
| W      | WIDTH                             |
| WD     | WOOD                              |
| WP     | WORK POINT                        |
| WWR    | WELDED WIRE REINFORCEMENT         |

PREPARED BY:



PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

TITLE SHEET

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

JSU

DRAWING NO:

T-001

PAGE NO:

1 OF 11

GENERAL NOTES:

1. DRAWING REFERENCE:  
N/A
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INSTALLATION. DO NOT SCALE OFF DRAWINGS.
3. ALL MEMBERS SHALL BE SAW CUT IN FIELD AS REQUIRED.
4. NO SPLICES SHALL BE PERMITTED UNLESS INDICATED OTHERWISE ON DRAWINGS.
5. TOUCH UP ALL SCRATCHES WITH DEALER PROVIDED COLORS TO MATCH.
6. WELDING IS NOT PERMITTED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
7. THE CONTENTS SHOW THE APPLICATION OF ALUMINUM FRAMING COMPONENTS ONLY. THE INSTALLING CONTRACTOR IS TO REFER TO THE PROJECT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
8. DIMENSIONS HEREIN ARE FOR ENGINEERING PURPOSES ONLY AND MUST BE REVIEWED FOR THE PURPOSE OF APPROVAL. ALL CONDITIONS ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
9. BEFORE ORDERING, FABRICATING OR ERECTING ANY MATERIAL, MAKE ANY NECESSARY SURVEYS AND MEASUREMENTS TO VERIFY THAT IN PLACE WORK HAS BEEN BUILT ACCORDING TO THE CONTRACT DOCUMENTS AND ARE WITHIN ACCEPTABLE TOLERANCES. THIS INCLUDES THE ORIGINAL BUILDINGS AND ALL ADDITIONS THERETO. NOTIFY THE A/E AND OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
10. TEMPORARY BRACING OF THE SYSTEM AND SAFETY DURING CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING OF THE SYSTEM SHALL REMAIN IN PLACE UNTIL THE SYSTEM IS TOTALLY IN PLACE. CONTRACTOR SHALL COORDINATE LOCATIONS OF TEMPORARY BRACING WITH OTHER CONTRACTORS. REFER TO DRAWINGS FOR ADDITIONAL CRITERIA.
11. THIS SUBMITTAL IS SUBJECT TO THE REVIEW AND APPROVAL OF THE PROJECT ARCHITECT/ENGINEER OF RECORD PRIOR TO INSTALLATION.

ALUMINUM NOTES:

1. ALL STRUCTURAL ALUMINUM COMPONENTS SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND ADM-2015.
2. MATERIAL NOTES:  
ALL BATTENS SHALL BE ONE OF THE FOLLOWING ALUMINUM ALLOYS AND TEMPER:  
6063-T5  
F<sub>y</sub>: 16 KSI  
F<sub>t</sub>: 22 KSI  
E: 10x10<sup>3</sup> KSI
3. SCREWS:  
SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM GALVANIZED UNLESS NOTED OTHERWISE  
304/316 STAINLESS STEEL OR ALUMINUM COATED WHERE NOTED AT HIGH/SALT EXPOSURE
4. WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
5. UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS, ZINC, OR CADMIUM.
6. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
7. ALUMINUM SURFACES SHALL BE PAINTED IF THEY ARE TO BE PLACED IN CONTACT WITH CONCRETE OR MASONRY UNLESS THE CONCRETE OR MASONRY REMAINS DRY AFTER CURING AND NO CORROSIVE ADDITIVES SUCH AS CHLORIDES ARE USED.
8. ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE WITH CORROSIVE ADDITIVES SUCH AS CHLORIDES IF THE ALUMINUM IS ELECTRICALLY CONNECTED TO STEEL. ALUMINUM EMBEDDED IN CONCRETE SHALL BE WRAPPED WITH 10 MIL PIPE WRAP OR PLASTIC TAPE. WRAP MUST PROTECT ALL ALUMINUM SURFACES FROM EXPOSURE TO CONCRETE.
9. AS AN ALTERNATIVE TO THE PREVIOUS REQUIREMENTS FOR ALUMINUM IN CONTACT WITH OTHER MATERIALS, ALUMINUM SHALL BE SEPARATED FROM THE MATERIALS OF THIS SECTION BY A NONPOROUS ISOLATOR COMPATIBLE WITH THE ALUMINUM AND THE DISSIMILAR MATERIAL.
10. STEEL FASTENERS WITH A MINIMUM TENSILE ULTIMATE STRENGTH GREATER THAN 120 KSI IN THE LOAD BEARING PORTION OF THE SHANK SHALL NOT BE USED IN CONTACT WITH ALUMINUM. ALL FASTENERS SHALL BE LOCATED AT A SPACING THAT CONFORMS TO AISC STANDARD GAGE AND PITCH.
11. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16" (U.O.N.).
12. PREDRILL ALL HOLES FOR MATERIAL THICKER THAN 3/16".
13. NOMINAL DIAMETER OF UNTHREADED HOLES FOR SCREWS SHALL NOT EXCEED THE NOMINAL DIAMETER OF THE SCREWS BY MORE THAN 1/16".
14. THE SPACING BETWEEN SCREW CENTERS SHALL NOT BE LESS THAN 2.5 TIMES THE NOMINAL DIAMETER OF THE SCREWS.
15. THE DISTANCE FROM THE EDGE OF A PART TO THE CENTER OF THE SCREWS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL DIAMETER OF THE SCREW.
16. WASHERS SHALL HAVE A NOMINAL DIAMETER NOT LESS THAN 5/16" AND SHALL HAVE A NOMINAL THICKNESS NOT LESS THAN 0.050".

CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT WITH LATEST EDITION PER GOVERNING BUILDING CODE TO BE USED:  
a. ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"  
b. IBC 2018, "INTERNATIONAL BUILDING CODE"  
c. AA ADM-2015, "ALUMINUM DESIGN MANUAL"  
d. ANSI/AISC 360-16, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"  
e. AISI S100-16, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"  
f. TMS 402/602-16, "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"  
g. ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"  
h. ANSI/AWC NDS-2015, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"

TYPICAL SCREW FASTENER LEGEND:

|                                                                                                                                                                                                                                                                                                                                                 |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| NOTE: SCREWS SHOWN BELOW ARE TYPICAL EXAMPLES AND ALL MAY NOT BE USED IN PROJECT. CONTRACTOR MAY ELECT TO USE OTHER TYPES. SCREW MATERIAL PER THE GENERAL NOTES AND MINIMUM SCREW DIAMETER PER THE DETAILS MUST BE MAINTAINED. DRILL POINT, HEAD STYLE, AND THREAD COUNT PER INCH SHALL BE SELECTED BY THE CONTRACTOR BASED ON THE APPLICATION. |                                                      |
| #10-16X1" HEX WASHER HEAD (HWH)<br>SELF DRILLING SCREW<br>(5/16" HEX-HEAD)<br>(METAL TO METAL)<br>MANUF. PART NO. 10100HW3CS                                                                                                                                                                                                                    | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |
| #10-12X1-1/2" BURR-BUSTER<br>SELF DRILLING SCREW<br>(5/16" HEX-HEAD)<br>(METAL TO WOOD)<br>MANUF. PART NO. 10150HWPB17CSTSBU                                                                                                                                                                                                                    | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |
| #10-16X5/8" BLAZER LO PROFILE PANCAKE HEAD<br>SELF DRILLING SCREW<br>(2/2 QUADREX DRIVE)<br>(METAL TO METAL)<br>MANUF. PART NO. CSSD5-#10X5/8"-PC-QX-F                                                                                                                                                                                          | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |
| #10-13X2" GP<br>SELF DRILLING SCREW<br>(2/2 QUADREX DRIVE)<br>(THIN METAL)<br>MANUF. PART NO. 10200SPCGCSTS                                                                                                                                                                                                                                     | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |
| 5/16"x1-3/4" ULTRACON+<br>SELF DRILLING SCREW<br>(5/16" HEX-HEAD)<br>(METAL TO CMU)<br>MANUF. PART NO. DFMSELG82                                                                                                                                                                                                                                | <div>DEWALT, ELCO, &amp; POWERS 1-800-524-3244</div> |
| #12-11X1" GP<br>SELF DRILLING SCREW<br>(2/2 QUADREX DRIVE)<br>(THIN METAL)<br>MANUF. PART NO. 12100SPCGCSTS                                                                                                                                                                                                                                     | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |
| #12-24X1-1/2" SD5 PANCAKE HEAD<br>SELF DRILLING SCREW<br>(2/2 QUADREX DRIVE)<br>(METAL TO METAL)<br>MANUF. PART NO. CSSD5-#12X1-1/2"-PC-QX-F                                                                                                                                                                                                    | <div>SFS INTECT 1-800-234-4533</div>                 |
| #12-24X4-3/4" CONCEALOR<br>SELF DRILLING SCREW<br>(#3 SQUARE)<br>(METAL THRU EPS TO METAL)<br>MANUF. PART NO. 126750C35E                                                                                                                                                                                                                        | <div>TRIANGLE FASTENER 1-800-486-1832</div>          |

BUILDING LOADS:

1. SUPERIMPOSED DEAD LOAD AND LIVE LOADS  
a. DEAD LOAD  
1. 1X1 - KEB2525MV2/KEB2525FV2 0.38 PLF  
2. 1X2 - KEB2525MV2/KEB5025FV2 0.51 PLF  
3. 1X3 - KEB2525MV2/KEB7525FV2 0.72 PLF  
4. 1X4 - KEB2525MV2/KEB10025FV2 0.88 PLF  
5. 1X6 - KEB2525MV2/KEB15025FV2 1.37 PLF  
6.  
b. LIVE LOADS  
1. DISTRIBUTED LOAD SEE SPAN TABLES  
2. CONCENTRATED LOAD SEE SPAN TABLES
2. SNOW LOADS  
a. SEE SPAN TABLES FOR MAX DISTRIBUTED LOADS
3. WIND  
a. SEE SPAN TABLES FOR MAX DISTRIBUTED LOADS
4. SEISMIC  
a. SEE SPAN TABLES FOR MAX DISTRIBUTED LOADS

ENLARGED PART DETAILS:

|               |  |
|---------------|--|
| KEB2525MV2    |  |
| KEB2525FV2    |  |
| KEB5025FV2    |  |
| KEB7525FV2    |  |
| KEB10025FV2   |  |
| KEB15025FV2   |  |
| KEB5025FWIDE  |  |
| KEB7525FWIDE  |  |
| KEB10025FWIDE |  |
| KEB15025FWIDE |  |
| KEB3232F      |  |
| KEB4040F      |  |
| KEB5032DF     |  |
| KEB7532DF     |  |

PREPARED BY:



PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

GENERAL NOTES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

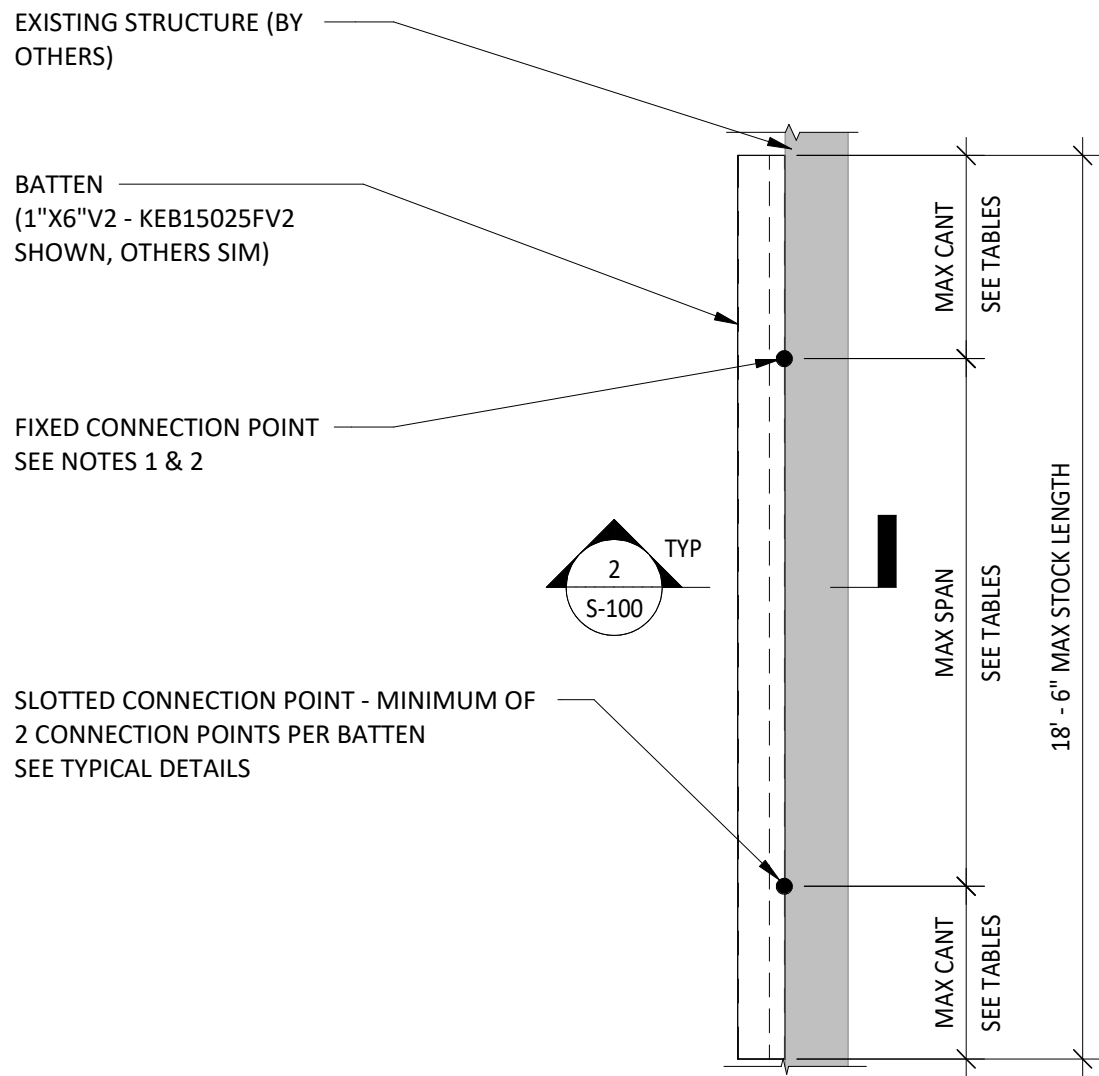
JSU

DRAWING NO:

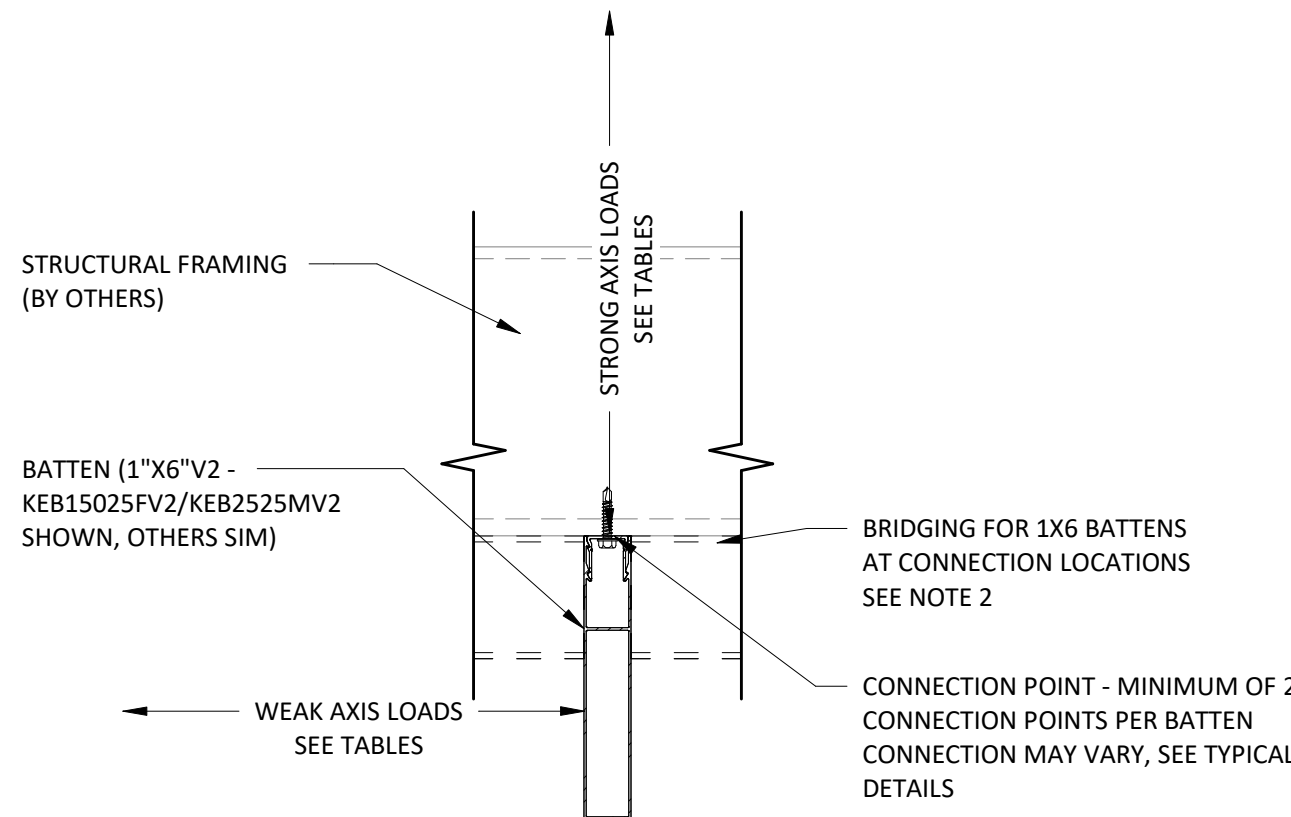
S-001

PAGE NO:

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① V2 TYPICAL OVERALL VERTICAL BATTEN SECTION VIEW  
1/2" = 1'-0"



② V2 TYPICAL VERTICAL BATTEN LOADING DIAGRAM  
3" = 1'-0"

| VERTICAL 1X2 (KEB2525MV2/KEB5025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                               | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                        | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                  | 1028 PLF                           | 514 LBS | 905 PLF                         | 452 LBS |
| 2'-0"                                                                                  | 257 PLF                            | 257 LBS | 226 PLF                         | 226 LBS |
| 3'-0"                                                                                  | 114 PLF                            | 171 LBS | 100 PLF                         | 150 LBS |
| 4'-0"                                                                                  | 64 PLF                             | 128 LBS | 56 PLF                          | 113 LBS |
| 5'-0"                                                                                  | 41 PLF                             | 102 LBS | 36 PLF                          | 90 LBS  |
| 6'-0"                                                                                  | 28 PLF                             | 85 LBS  | 25 PLF                          | 75 LBS  |
| 7'-0"                                                                                  | 21 PLF                             | 73 LBS  | 18 PLF                          | 64 LBS  |
| 8'-0"                                                                                  | 16 PLF                             | 64 LBS  | 12 PLF                          | 56 LBS  |
| 9'-0"                                                                                  | 12 PLF                             | 57 LBS  | 8 PLF                           | 47 LBS  |
| 10'-0"                                                                                 | 10 PLF                             | 51 LBS  | 6 PLF                           | 38 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

⑤ 1X2 V2 VERTICAL SIMPLY SUPPORTED BATTEN SPAN TABLE  
1 1/2" = 1'-0"

| VERTICAL 1X4V2 (KEB2525MV2/KEB10025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                  | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                           | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                     | 3536 PLF                           | 1768 LBS | 1205 PLF                        | 603 LBS |
| 2'-0"                                                                                     | 884 PLF                            | 884 LBS  | 412 PLF                         | 412 LBS |
| 3'-0"                                                                                     | 393 PLF                            | 589 LBS  | 182 PLF                         | 274 LBS |
| 4'-0"                                                                                     | 221 PLF                            | 442 LBS  | 102 PLF                         | 204 LBS |
| 5'-0"                                                                                     | 141 PLF                            | 353 LBS  | 65 PLF                          | 163 LBS |
| 6'-0"                                                                                     | 98 PLF                             | 294 LBS  | 45 PLF                          | 135 LBS |
| 7'-0"                                                                                     | 72 PLF                             | 252 LBS  | 32 PLF                          | 115 LBS |
| 8'-0"                                                                                     | 55 PLF                             | 221 LBS  | 22 PLF                          | 99 LBS  |
| 9'-0"                                                                                     | 43 PLF                             | 196 LBS  | 15 PLF                          | 86 LBS  |
| 10'-0"                                                                                    | 35 PLF                             | 176 LBS  | 11 PLF                          | 70 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X2 (KEB2525MV2/KEB5025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                              | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                    | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                              | 257 PLF                            | 128 LBS | 226 PLF                         | 113 LBS |
| 2'-0"                                                                              | 64 PLF                             | 64 LBS  | 56 PLF                          | 56 LBS  |
| 3'-0"                                                                              | 28 PLF                             | 42 LBS  | 25 PLF                          | 37 LBS  |
| 4'-0"                                                                              | 16 PLF                             | 32 LBS  | 14 PLF                          | 28 LBS  |
| 5'-0"                                                                              | 10 PLF                             | 25 LBS  | 9 PLF                           | 19 LBS  |
| 6'-0"                                                                              | 7 PLF                              | 21 LBS  | 5 PLF                           | 13 LBS  |
| 7'-0"                                                                              | 5 PLF                              | 18 LBS  | 3 PLF                           | 9 LBS   |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X4V2 (KEB2525MV2/KEB10025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|---------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                 | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                       | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                 | 884 PLF                            | 442 LBS | 413 PLF                         | 206 LBS |
| 2'-0"                                                                                 | 221 PLF                            | 221 LBS | 103 PLF                         | 103 LBS |
| 3'-0"                                                                                 | 98 PLF                             | 147 LBS | 45 PLF                          | 68 LBS  |
| 4'-0"                                                                                 | 55 PLF                             | 110 LBS | 25 PLF                          | 51 LBS  |
| 5'-0"                                                                                 | 35 PLF                             | 88 LBS  | 16 PLF                          | 35 LBS  |
| 6'-0"                                                                                 | 24 PLF                             | 73 LBS  | 10 PLF                          | 24 LBS  |
| 7'-0"                                                                                 | 18 PLF                             | 63 LBS  | 6 PLF                           | 17 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X1 (KEB2525MV2/KEB2525FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                               | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                        | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                  | 593 PLF                            | 296 LBS | 482 PLF                         | 241 LBS |
| 2'-0"                                                                                  | 148 PLF                            | 148 LBS | 120 PLF                         | 120 LBS |
| 3'-0"                                                                                  | 66 PLF                             | 99 LBS  | 53 PLF                          | 80 LBS  |
| 4'-0"                                                                                  | 37 PLF                             | 74 LBS  | 30 PLF                          | 60 LBS  |
| 5'-0"                                                                                  | 23 PLF                             | 59 LBS  | 19 PLF                          | 48 LBS  |
| 6'-0"                                                                                  | 16 PLF                             | 49 LBS  | 13 PLF                          | 40 LBS  |
| 7'-0"                                                                                  | 11 PLF                             | 42 LBS  | 9 PLF                           | 34 LBS  |
| 8'-0"                                                                                  | 7 PLF                              | 37 LBS  | 6 PLF                           | 30 LBS  |
| 9'-0"                                                                                  | 5 PLF                              | 31 LBS  | 4 PLF                           | 25 LBS  |
| 10'-0"                                                                                 | 4 PLF                              | 25 LBS  | 3 PLF                           | 20 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X3 (KEB2525MV2/KEB7525FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                               | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                        | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                  | 1144 PLF                           | 572 LBS | 1144 PLF                        | 572 LBS |
| 2'-0"                                                                                  | 532 PLF                            | 532 LBS | 321 PLF                         | 321 LBS |
| 3'-0"                                                                                  | 236 PLF                            | 355 LBS | 142 PLF                         | 214 LBS |
| 4'-0"                                                                                  | 133 PLF                            | 266 LBS | 80 PLF                          | 160 LBS |
| 5'-0"                                                                                  | 85 PLF                             | 213 LBS | 51 PLF                          | 128 LBS |
| 6'-0"                                                                                  | 59 PLF                             | 177 LBS | 35 PLF                          | 107 LBS |
| 7'-0"                                                                                  | 43 PLF                             | 152 LBS | 25 PLF                          | 91 LBS  |
| 8'-0"                                                                                  | 33 PLF                             | 133 LBS | 17 PLF                          | 80 LBS  |
| 9'-0"                                                                                  | 26 PLF                             | 118 LBS | 12 PLF                          | 67 LBS  |
| 10'-0"                                                                                 | 21 PLF                             | 106 LBS | 8 PLF                           | 54 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X6V2 (KEB2525MV2/KEB15025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                  | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                           | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                     | 7367 PLF                           | 3683 LBS | 915 PLF                         | 457 LBS |
| 2'-0"                                                                                     | 2117 PLF                           | 2117 LBS | 457 PLF                         | 457 LBS |
| 3'-0"                                                                                     | 941 PLF                            | 1411 LBS | 298 PLF                         | 448 LBS |
| 4'-0"                                                                                     | 529 PLF                            | 1058 LBS | 168 PLF                         | 336 LBS |
| 5'-0"                                                                                     | 338 PLF                            | 847 LBS  | 107 PLF                         | 269 LBS |
| 6'-0"                                                                                     | 235 PLF                            | 705 LBS  | 74 PLF                          | 224 LBS |
| 7'-0"                                                                                     | 172 PLF                            | 605 LBS  | 53 PLF                          | 192 LBS |
| 8'-0"                                                                                     | 132 PLF                            | 529 LBS  | 35 PLF                          | 168 LBS |
| 9'-0"                                                                                     | 104 PLF                            | 470 LBS  | 25 PLF                          | 141 LBS |
| 10'-0"                                                                                    | 84 PLF                             | 423 LBS  | 18 PLF                          | 114 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X1 (KEB2525MV2/KEB2525FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |        |                                 |        |
|------------------------------------------------------------------------------------|------------------------------------|--------|---------------------------------|--------|
| MAX CANTILEVER LENGTH                                                              | MAX STRONG AXIS LOADS <sup>2</sup> |        | MAX WEAK AXIS LOAD <sup>2</sup> |        |
|                                                                                    | DISTRIBUTED                        | POINT  | DISTRIBUTED                     | POINT  |
| 1'-0"                                                                              | 148 PLF                            | 74 LBS | 120 PLF                         | 60 LBS |
| 2'-0"                                                                              | 37 PLF                             | 37 LBS | 30 PLF                          | 30 LBS |
| 3'-0"                                                                              | 16 PLF                             | 24 LBS | 13 PLF                          | 20 LBS |
| 4'-0"                                                                              | 9 PLF                              | 18 LBS | 7 PLF                           | 15 LBS |
| 5'-0"                                                                              | 5 PLF                              | 12 LBS | 4 PLF                           | 10 LBS |
| 6'-0"                                                                              | 3 PLF                              | 8 LBS  | 3 PLF                           | 7 LBS  |
| 7'-0"                                                                              | 2 PLF                              | 6 LBS  | 2 PLF                           | 5 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X3 (KEB2525MV2/KEB7525F) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                            | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                  | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                            | 532 PLF                            | 266 LBS | 321 PLF                         | 160 LBS |
| 2'-0"                                                                            | 133 PLF                            | 133 LBS | 80 PLF                          | 80 LBS  |
| 3'-0"                                                                            | 59 PLF                             | 88 LBS  | 35 PLF                          | 53 LBS  |
| 4'-0"                                                                            | 33 PLF                             | 66 LBS  | 20 PLF                          | 40 LBS  |
| 5'-0"                                                                            | 21 PLF                             | 53 LBS  | 12 PLF                          | 27 LBS  |
| 6'-0"                                                                            | 14 PLF                             | 44 LBS  | 8 PLF                           | 19 LBS  |
| 7'-0"                                                                            | 10 PLF                             | 38 LBS  | 5 PLF                           | 13 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X6V2 (KEB2525MV2/KEB15025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|---------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                 | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                       | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                 | 2117 PLF                           | 1058 LBS | 457 PLF                         | 336 LBS |
| 2'-0"                                                                                 | 529 PLF                            | 529 LBS  | 168 PLF                         | 168 LBS |
| 3'-0"                                                                                 | 235 PLF                            | 352 LBS  | 74 PLF                          | 112 LBS |
| 4'-0"                                                                                 | 132 PLF                            | 264 LBS  | 42 PLF                          | 84 LBS  |
| 5'-0"                                                                                 | 84 PLF                             | 211 LBS  | 26 PLF                          | 57 LBS  |
| 6'-0"                                                                                 | 58 PLF                             | 176 LBS  | 17 PLF                          | 39 LBS  |
| 7'-0"                                                                                 | 43 PLF                             | 151 LBS  | 11 PLF                          | 29 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



**DRAWING NOTES:**

- ALL FASTENERS TO BE VERIFIED BY OTHERS.
- WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
- THESE CAPACITIES EXCLUDE CONFIRMATION OF THE SNAPPED ATTACHMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PART A & PART B PIECES ARE POSITIVELY ATTACHED TO ONE ANOTHER AS NECESSARY TO PREVENT SUPPAGE AND/OR DISLOCATION.

PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

**PLAN REVISIONS**

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

V2 VERTICAL BATTEN SPAN TABLES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

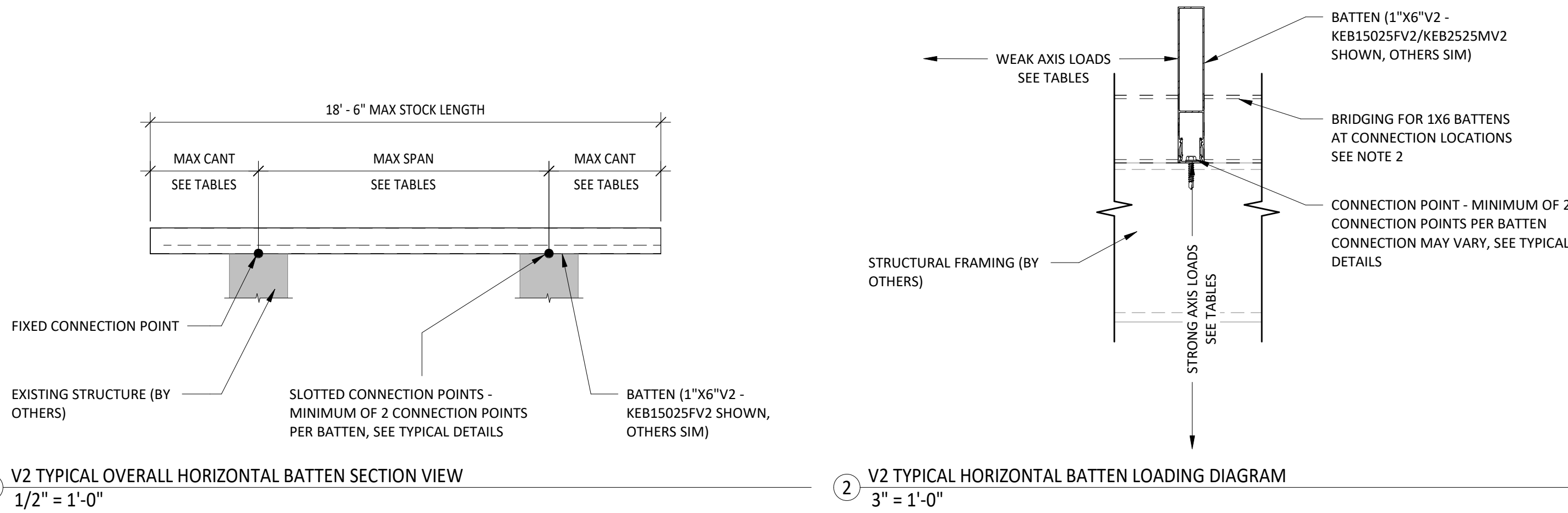
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DRAWING NO:

S-100

PAGE NO:

3 OF 11



| HORIZONTAL 1X1V2 (KEB2525MV2/KEB2525FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 593 PLF                            | 296 LBS | 482 PLF                         | 241 LBS |
| 2'-0"                                                                                      | 148 PLF                            | 148 LBS | 120 PLF                         | 120 LBS |
| 3'-0"                                                                                      | 65 PLF                             | 98 LBS  | 53 PLF                          | 80 LBS  |
| 4'-0"                                                                                      | 36 PLF                             | 73 LBS  | 30 PLF                          | 60 LBS  |
| 5'-0"                                                                                      | 23 PLF                             | 58 LBS  | 19 PLF                          | 48 LBS  |
| 6'-0"                                                                                      | 16 PLF                             | 48 LBS  | 13 PLF                          | 40 LBS  |
| 7'-0"                                                                                      | 11 PLF                             | 41 LBS  | 9 PLF                           | 34 LBS  |
| 8'-0"                                                                                      | 7 PLF                              | 35 LBS  | 6 PLF                           | 30 LBS  |
| 9'-0"                                                                                      | 5 PLF                              | 31 LBS  | 4 PLF                           | 25 LBS  |
| 10'-0"                                                                                     | 4 PLF                              | 25 LBS  | 3 PLF                           | 20 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X1V2 (KEB2525MV2/KEB2525FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |        |                                 |        |
|----------------------------------------------------------------------------------------|------------------------------------|--------|---------------------------------|--------|
| MAX CANTILEVER LENGTH                                                                  | MAX STRONG AXIS LOADS <sup>2</sup> |        | MAX WEAK AXIS LOAD <sup>2</sup> |        |
|                                                                                        | DISTRIBUTED                        | POINT  | DISTRIBUTED                     | POINT  |
| 1'-0"                                                                                  | 148 PLF                            | 74 LBS | 120 PLF                         | 60 LBS |
| 2'-0"                                                                                  | 37 PLF                             | 37 LBS | 30 PLF                          | 30 LBS |
| 3'-0"                                                                                  | 16 PLF                             | 24 LBS | 13 PLF                          | 20 LBS |
| 4'-0"                                                                                  | 9 PLF                              | 18 LBS | 7 PLF                           | 15 LBS |
| 5'-0"                                                                                  | 5 PLF                              | 12 LBS | 4 PLF                           | 10 LBS |
| 6'-0"                                                                                  | 3 PLF                              | 8 LBS  | 3 PLF                           | 7 LBS  |
| 7'-0"                                                                                  | 2 PLF                              | 6 LBS  | 2 PLF                           | 5 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X2V2 (KEB2525MV2/KEB5025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 1027 PLF                           | 514 LBS | 904 PLF                         | 452 LBS |
| 2'-0"                                                                                      | 256 PLF                            | 256 LBS | 225 PLF                         | 225 LBS |
| 3'-0"                                                                                      | 113 PLF                            | 170 LBS | 100 PLF                         | 150 LBS |
| 4'-0"                                                                                      | 63 PLF                             | 127 LBS | 56 PLF                          | 112 LBS |
| 5'-0"                                                                                      | 40 PLF                             | 101 LBS | 35 PLF                          | 89 LBS  |
| 6'-0"                                                                                      | 28 PLF                             | 84 LBS  | 24 PLF                          | 73 LBS  |
| 7'-0"                                                                                      | 20 PLF                             | 71 LBS  | 18 PLF                          | 62 LBS  |
| 8'-0"                                                                                      | 15 PLF                             | 62 LBS  | 12 PLF                          | 54 LBS  |
| 9'-0"                                                                                      | 12 PLF                             | 54 LBS  | 8 PLF                           | 47 LBS  |
| 10'-0"                                                                                     | 9 PLF                              | 48 LBS  | 6 PLF                           | 38 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X2V2 (KEB2525MV2/KEB5025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                      | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                | 257 PLF                            | 128 LBS | 226 PLF                         | 113 LBS |
| 2'-0"                                                                                | 64 PLF                             | 64 LBS  | 56 PLF                          | 56 LBS  |
| 3'-0"                                                                                | 28 PLF                             | 42 LBS  | 25 PLF                          | 37 LBS  |
| 4'-0"                                                                                | 16 PLF                             | 32 LBS  | 14 PLF                          | 28 LBS  |
| 5'-0"                                                                                | 10 PLF                             | 25 LBS  | 9 PLF                           | 19 LBS  |
| 6'-0"                                                                                | 7 PLF                              | 21 LBS  | 5 PLF                           | 13 LBS  |
| 7'-0"                                                                                | 5 PLF                              | 18 LBS  | 3 PLF                           | 9 LBS   |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X3V2 (KEB2525MV2/KEB7525FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 1144 PLF                           | 572 LBS | 1144 PLF                        | 572 LBS |
| 2'-0"                                                                                      | 531 PLF                            | 531 LBS | 320 PLF                         | 320 LBS |
| 3'-0"                                                                                      | 235 PLF                            | 353 LBS | 142 PLF                         | 212 LBS |
| 4'-0"                                                                                      | 132 PLF                            | 264 LBS | 79 PLF                          | 159 LBS |
| 5'-0"                                                                                      | 84 PLF                             | 211 LBS | 50 PLF                          | 126 LBS |
| 6'-0"                                                                                      | 58 PLF                             | 175 LBS | 34 PLF                          | 104 LBS |
| 7'-0"                                                                                      | 42 PLF                             | 149 LBS | 25 PLF                          | 89 LBS  |
| 8'-0"                                                                                      | 32 PLF                             | 130 LBS | 17 PLF                          | 77 LBS  |
| 9'-0"                                                                                      | 25 PLF                             | 115 LBS | 12 PLF                          | 67 LBS  |
| 10'-0"                                                                                     | 20 PLF                             | 102 LBS | 8 PLF                           | 54 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X3V2 (KEB2525MV2/KEB7525FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                      | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                | 532 PLF                            | 266 LBS | 321 PLF                         | 160 LBS |
| 2'-0"                                                                                | 133 PLF                            | 133 LBS | 80 PLF                          | 80 LBS  |
| 3'-0"                                                                                | 59 PLF                             | 88 LBS  | 35 PLF                          | 53 LBS  |
| 4'-0"                                                                                | 33 PLF                             | 66 LBS  | 20 PLF                          | 40 LBS  |
| 5'-0"                                                                                | 21 PLF                             | 53 LBS  | 12 PLF                          | 27 LBS  |
| 6'-0"                                                                                | 14 PLF                             | 44 LBS  | 8 PLF                           | 19 LBS  |
| 7'-0"                                                                                | 10 PLF                             | 38 LBS  | 5 PLF                           | 13 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X4V2 (KEB2525MV2/KEB10025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|---------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                             | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                       | 3536 PLF                           | 1768 LBS | 1205 PLF                        | 603 LBS |
| 2'-0"                                                                                       | 883 PLF                            | 883 LBS  | 412 PLF                         | 412 LBS |
| 3'-0"                                                                                       | 392 PLF                            | 588 LBS  | 182 PLF                         | 274 LBS |
| 4'-0"                                                                                       | 220 PLF                            | 440 LBS  | 102 PLF                         | 204 LBS |
| 5'-0"                                                                                       | 140 PLF                            | 351 LBS  | 65 PLF                          | 163 LBS |
| 6'-0"                                                                                       | 97 PLF                             | 292 LBS  | 45 PLF                          | 135 LBS |
| 7'-0"                                                                                       | 71 PLF                             | 249 LBS  | 32 PLF                          | 115 LBS |
| 8'-0"                                                                                       | 54 PLF                             | 217 LBS  | 22 PLF                          | 99 LBS  |
| 9'-0"                                                                                       | 42 PLF                             | 192 LBS  | 15 PLF                          | 86 LBS  |
| 10'-0"                                                                                      | 34 PLF                             | 172 LBS  | 11 PLF                          | 70 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X4V2 (KEB2525MV2/KEB10025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|-----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                         | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                   | 884 PLF                            | 442 LBS | 413 PLF                         | 206 LBS |
| 2'-0"                                                                                   | 221 PLF                            | 221 LBS | 103 PLF                         | 103 LBS |
| 3'-0"                                                                                   | 98 PLF                             | 147 LBS | 45 PLF                          | 68 LBS  |
| 4'-0"                                                                                   | 55 PLF                             | 110 LBS | 25 PLF                          | 51 LBS  |
| 5'-0"                                                                                   | 35 PLF                             | 88 LBS  | 16 PLF                          | 35 LBS  |
| 6'-0"                                                                                   | 24 PLF                             | 73 LBS  | 10 PLF                          | 24 LBS  |
| 7'-0"                                                                                   | 18 PLF                             | 63 LBS  | 6 PLF                           | 17 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X6V2 (KEB2525MV2/KEB15025FV2) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|---------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                             | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                       | 7366 PLF                           | 3683 LBS | 914 PLF                         | 457 LBS |
| 2'-0"                                                                                       | 2116 PLF                           | 2116 LBS | 456 PLF                         | 457 LBS |
| 3'-0"                                                                                       | 939 PLF                            | 1409 LBS | 297 PLF                         | 446 LBS |
| 4'-0"                                                                                       | 528 PLF                            | 1056 LBS | 166 PLF                         | 333 LBS |
| 5'-0"                                                                                       | 337 PLF                            | 843 LBS  | 106 PLF                         | 265 LBS |
| 6'-0"                                                                                       | 233 PLF                            | 701 LBS  | 73 PLF                          | 220 LBS |
| 7'-0"                                                                                       | 171 PLF                            | 600 LBS  | 53 PLF                          | 187 LBS |
| 8'-0"                                                                                       | 131 PLF                            | 523 LBS  | 35 PLF                          | 162 LBS |
| 9'-0"                                                                                       | 103 PLF                            | 464 LBS  | 25 PLF                          | 141 LBS |
| 10'-0"                                                                                      | 83 PLF                             | 416 LBS  | 18 PLF                          | 114 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X6V2 (KEB2525MV2/KEB15025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-----------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                         | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                   | 2117 PLF                           | 1058 LBS | 457 PLF                         | 336 LBS |
| 2'-0"                                                                                   | 529 PLF                            | 529 LBS  | 168 PLF                         | 168 LBS |
| 3'-0"                                                                                   | 235 PLF                            | 352 LBS  | 74 PLF                          | 112 LBS |
| 4'-0"                                                                                   | 132 PLF                            | 264 LBS  | 42 PLF                          | 84 LBS  |
| 5'-0"                                                                                   | 84 PLF                             | 211 LBS  | 26 PLF                          | 57 LBS  |
| 6'-0"                                                                                   | 58 PLF                             | 176 LBS  | 17 PLF                          | 39 LBS  |
| 7'-0"                                                                                   | 43 PLF                             | 151 LBS  | 11 PLF                          | 29 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



DRAWING NOTES:

- ALL FASTENERS TO BE VERIFIED BY OTHERS.
- WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
- THESE CAPACITIES EXCLUDE CONFIRMATION OF THE SNAPPED ATTACHMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PART A & PART B PIECES ARE POSITIVELY ATTACHED TO ONE ANOTHER AS NECESSARY TO PREVENT SUPPAGE AND/OR DISLOCATION.

PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

V2 HORIZONTAL BATTEN SPAN TABLES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

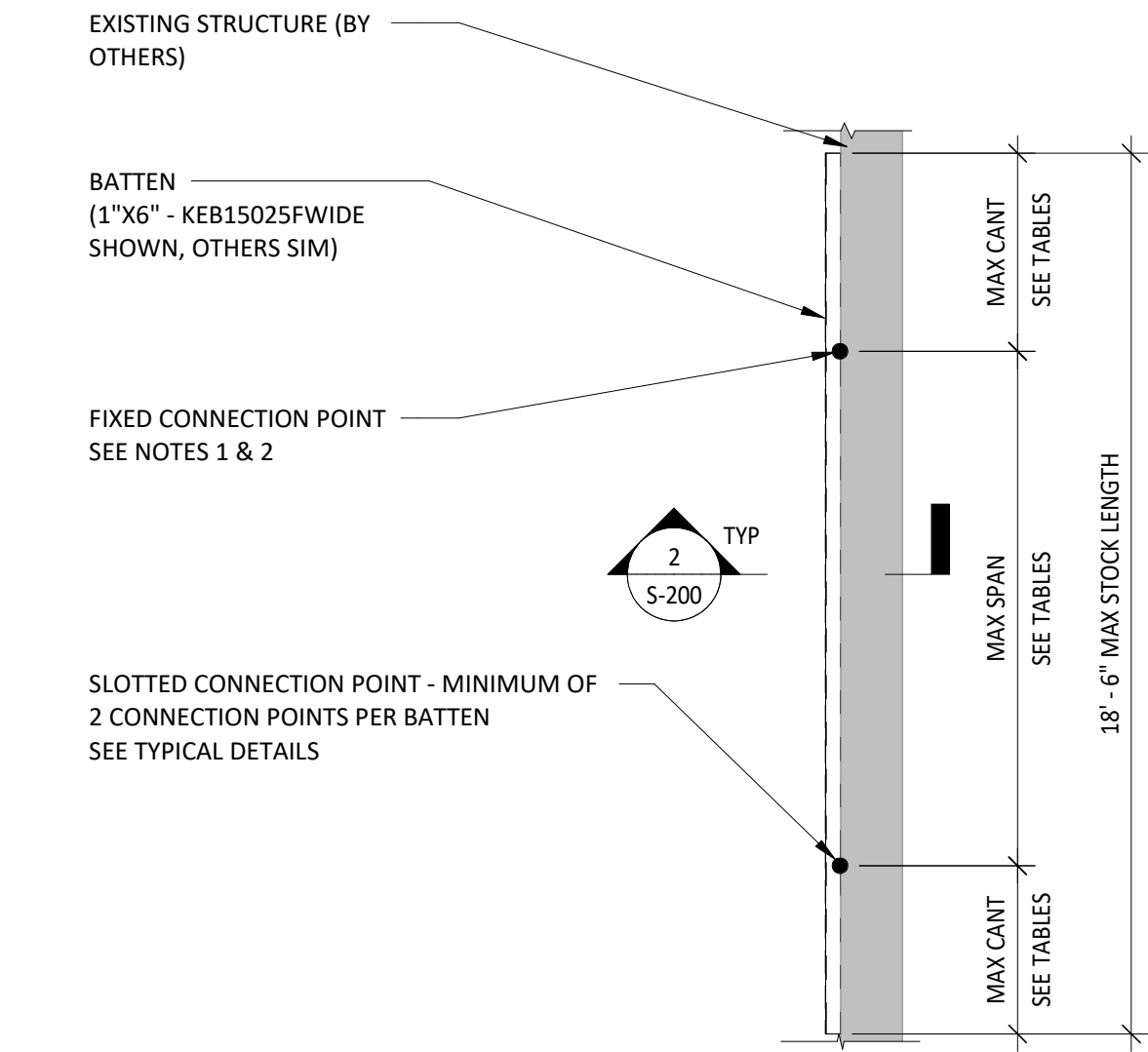
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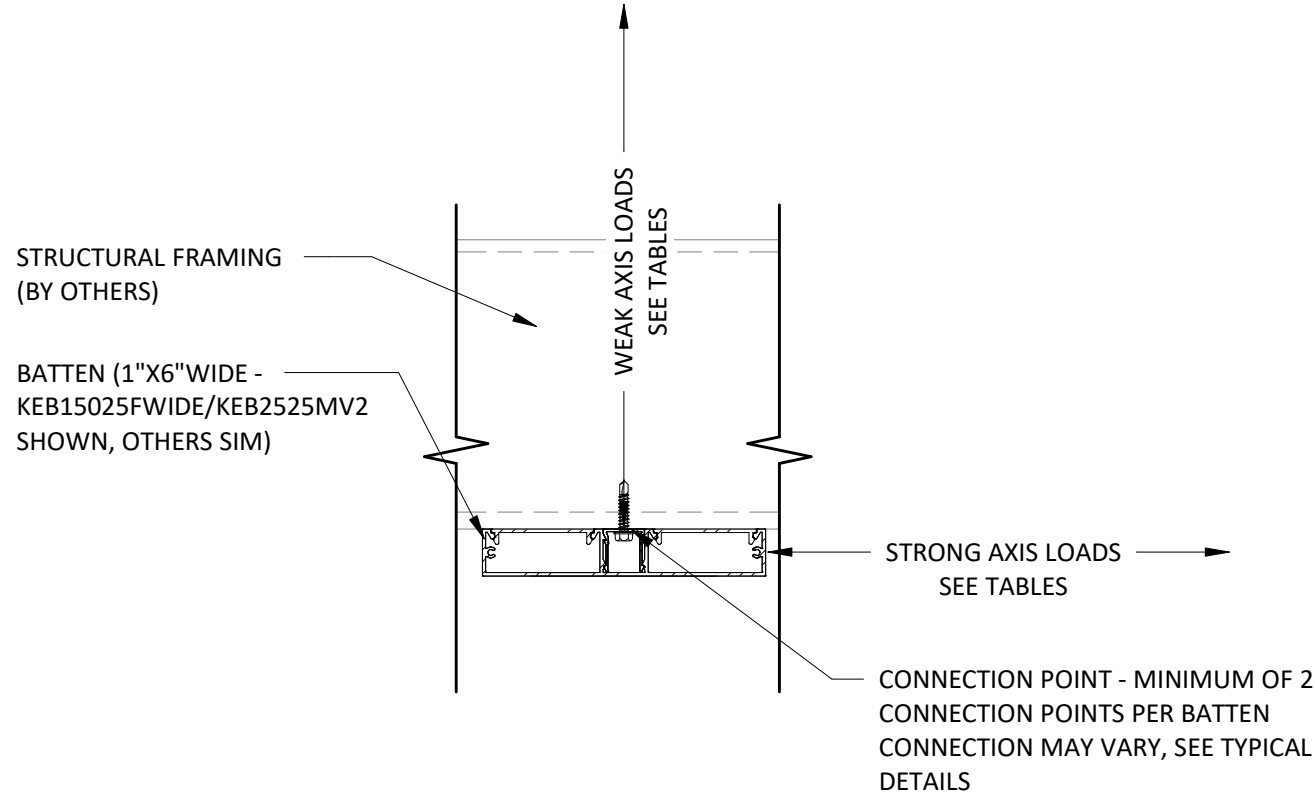
S-101

PAGE NO:

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1 TYPICAL OVERALL WIDE VERTICAL BATTEN SECTION VIEW  
1/2" = 1'-0"



2 TYPICAL WIDE VERTICAL BATTEN LOADING DIAGRAM  
3" = 1'-0"

| VERTICAL 1X2WIDE (KEB2525MV2/KEB5025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                              | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                        | 1257 PLF                           | 628 LBS | 896 PLF                         | 448 LBS |
| 2'-0"                                                                                        | 314 PLF                            | 314 LBS | 224 PLF                         | 224 LBS |
| 3'-0"                                                                                        | 139 PLF                            | 209 LBS | 99 PLF                          | 149 LBS |
| 4'-0"                                                                                        | 78 PLF                             | 157 LBS | 56 PLF                          | 112 LBS |
| 5'-0"                                                                                        | 50 PLF                             | 125 LBS | 35 PLF                          | 89 LBS  |
| 6'-0"                                                                                        | 34 PLF                             | 104 LBS | 24 PLF                          | 74 LBS  |
| 7'-0"                                                                                        | 25 PLF                             | 89 LBS  | 17 PLF                          | 64 LBS  |
| 8'-0"                                                                                        | 19 PLF                             | 78 LBS  | 11 PLF                          | 56 LBS  |
| 9'-0"                                                                                        | 15 PLF                             | 69 LBS  | 8 PLF                           | 47 LBS  |
| 10'-0"                                                                                       | 12 PLF                             | 62 LBS  | 6 PLF                           | 38 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X2WIDE (KEB2525MV2/KEB5025FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                    | 314 PLF                            | 157 LBS | 224 PLF                         | 112 LBS |
| 2'-0"                                                                                    | 78 PLF                             | 78 LBS  | 56 PLF                          | 56 LBS  |
| 3'-0"                                                                                    | 34 PLF                             | 52 LBS  | 24 PLF                          | 37 LBS  |
| 4'-0"                                                                                    | 19 PLF                             | 39 LBS  | 14 PLF                          | 28 LBS  |
| 5'-0"                                                                                    | 12 PLF                             | 31 LBS  | 9 PLF                           | 19 LBS  |
| 6'-0"                                                                                    | 8 PLF                              | 26 LBS  | 5 PLF                           | 13 LBS  |
| 7'-0"                                                                                    | 6 PLF                              | 22 LBS  | 3 PLF                           | 9 LBS   |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X3WIDE (KEB2525MV2/KEB7525FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                              | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                        | 1320 PLF                           | 660 LBS | 1267 PLF                        | 633 LBS |
| 2'-0"                                                                                        | 660 PLF                            | 660 LBS | 316 PLF                         | 316 LBS |
| 3'-0"                                                                                        | 321 PLF                            | 482 LBS | 140 PLF                         | 211 LBS |
| 4'-0"                                                                                        | 180 PLF                            | 361 LBS | 79 PLF                          | 158 LBS |
| 5'-0"                                                                                        | 115 PLF                            | 289 LBS | 50 PLF                          | 126 LBS |
| 6'-0"                                                                                        | 80 PLF                             | 241 LBS | 35 PLF                          | 105 LBS |
| 7'-0"                                                                                        | 59 PLF                             | 206 LBS | 25 PLF                          | 90 LBS  |
| 8'-0"                                                                                        | 45 PLF                             | 180 LBS | 17 PLF                          | 79 LBS  |
| 9'-0"                                                                                        | 35 PLF                             | 160 LBS | 12 PLF                          | 70 LBS  |
| 10'-0"                                                                                       | 28 PLF                             | 144 LBS | 9 PLF                           | 57 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X3WIDE (KEB2525MV2/KEB7525FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                    | 660 PLF                            | 361 LBS | 316 PLF                         | 158 LBS |
| 2'-0"                                                                                    | 180 PLF                            | 180 LBS | 79 PLF                          | 79 LBS  |
| 3'-0"                                                                                    | 80 PLF                             | 120 LBS | 35 PLF                          | 53 LBS  |
| 4'-0"                                                                                    | 45 PLF                             | 90 LBS  | 19 PLF                          | 39 LBS  |
| 5'-0"                                                                                    | 28 PLF                             | 72 LBS  | 12 PLF                          | 28 LBS  |
| 6'-0"                                                                                    | 20 PLF                             | 60 LBS  | 8 PLF                           | 19 LBS  |
| 7'-0"                                                                                    | 14 PLF                             | 51 LBS  | 5 PLF                           | 14 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X4WIDE (KEB2525MV2/KEB10025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-----------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                               | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                         | 4264 PLF                           | 2132 LBS | 1206 PLF                        | 603 LBS |
| 2'-0"                                                                                         | 1066 PLF                           | 1066 LBS | 392 PLF                         | 392 LBS |
| 3'-0"                                                                                         | 473 PLF                            | 710 LBS  | 174 PLF                         | 261 LBS |
| 4'-0"                                                                                         | 266 PLF                            | 553 LBS  | 98 PLF                          | 196 LBS |
| 5'-0"                                                                                         | 170 PLF                            | 426 LBS  | 62 PLF                          | 156 LBS |
| 6'-0"                                                                                         | 118 PLF                            | 355 LBS  | 43 PLF                          | 130 LBS |
| 7'-0"                                                                                         | 87 PLF                             | 304 LBS  | 32 PLF                          | 112 LBS |
| 8'-0"                                                                                         | 66 PLF                             | 266 LBS  | 22 PLF                          | 98 LBS  |
| 9'-0"                                                                                         | 52 PLF                             | 236 LBS  | 15 PLF                          | 87 LBS  |
| 10'-0"                                                                                        | 42 PLF                             | 213 LBS  | 11 PLF                          | 70 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X4WIDE (KEB2525MV2/KEB10025FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|-------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                           | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                     | 1066 PLF                           | 533 LBS | 392 PLF                         | 196 LBS |
| 2'-0"                                                                                     | 266 PLF                            | 266 LBS | 98 PLF                          | 98 LBS  |
| 3'-0"                                                                                     | 118 PLF                            | 177 LBS | 43 PLF                          | 65 LBS  |
| 4'-0"                                                                                     | 66 PLF                             | 133 LBS | 24 PLF                          | 49 LBS  |
| 5'-0"                                                                                     | 42 PLF                             | 106 LBS | 15 PLF                          | 35 LBS  |
| 6'-0"                                                                                     | 29 PLF                             | 88 LBS  | 10 PLF                          | 24 LBS  |
| 7'-0"                                                                                     | 21 PLF                             | 76 LBS  | 6 PLF                           | 18 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X6WIDE (KEB2525MV2/KEB15025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-----------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                               | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                         | 6626 PLF                           | 3313 LBS | 1104 PLF                        | 552 LBS |
| 2'-0"                                                                                         | 2471 PLF                           | 2471 LBS | 552 PLF                         | 552 LBS |
| 3'-0"                                                                                         | 1098 PLF                           | 1647 LBS | 287 PLF                         | 430 LBS |
| 4'-0"                                                                                         | 617 PLF                            | 1235 LBS | 161 PLF                         | 323 LBS |
| 5'-0"                                                                                         | 395 PLF                            | 988 LBS  | 103 PLF                         | 258 LBS |
| 6'-0"                                                                                         | 274 PLF                            | 823 LBS  | 71 PLF                          | 215 LBS |
| 7'-0"                                                                                         | 201 PLF                            | 706 LBS  | 52 PLF                          | 184 LBS |
| 8'-0"                                                                                         | 154 PLF                            | 617 LBS  | 37 PLF                          | 161 LBS |
| 9'-0"                                                                                         | 122 PLF                            | 549 LBS  | 26 PLF                          | 143 LBS |
| 10'-0"                                                                                        | 98 PLF                             | 494 LBS  | 19 PLF                          | 118 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1X6V2 (KEB2525MV2/KEB15025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|---------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                 | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                       | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                 | 2471 PLF                           | 1235 LBS | 457 PLF                         | 336 LBS |
| 2'-0"                                                                                 | 617 PLF                            | 617 LBS  | 168 PLF                         | 168 LBS |
| 3'-0"                                                                                 | 274 PLF                            | 411 LBS  | 74 PLF                          | 112 LBS |
| 4'-0"                                                                                 | 154 PLF                            | 308 LBS  | 42 PLF                          | 84 LBS  |
| 5'-0"                                                                                 | 98 PLF                             | 247 LBS  | 26 PLF                          | 57 LBS  |
| 6'-0"                                                                                 | 68 PLF                             | 206 LBS  | 17 PLF                          | 39 LBS  |
| 7'-0"                                                                                 | 50 PLF                             | 176 LBS  | 11 PLF                          | 29 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



DRAWING NOTES:

1. ALL FASTENERS TO BE VERIFIED BY OTHERS.
2. WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
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PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

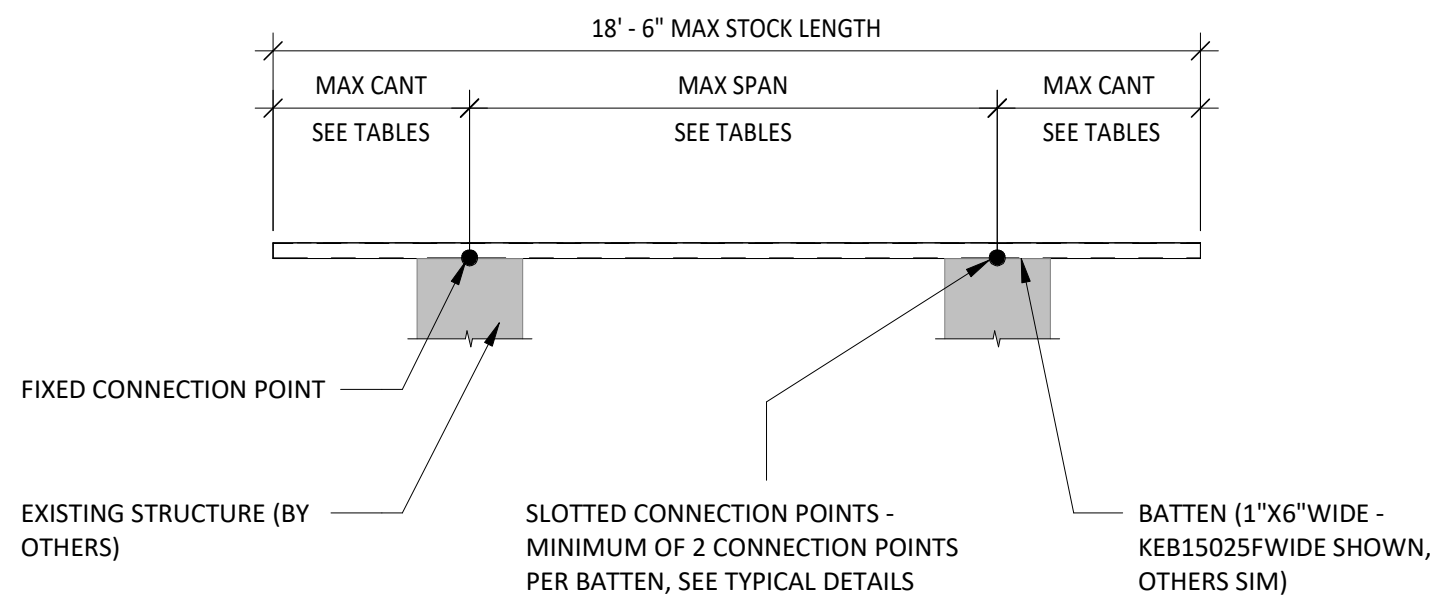
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DRAWING NAME:

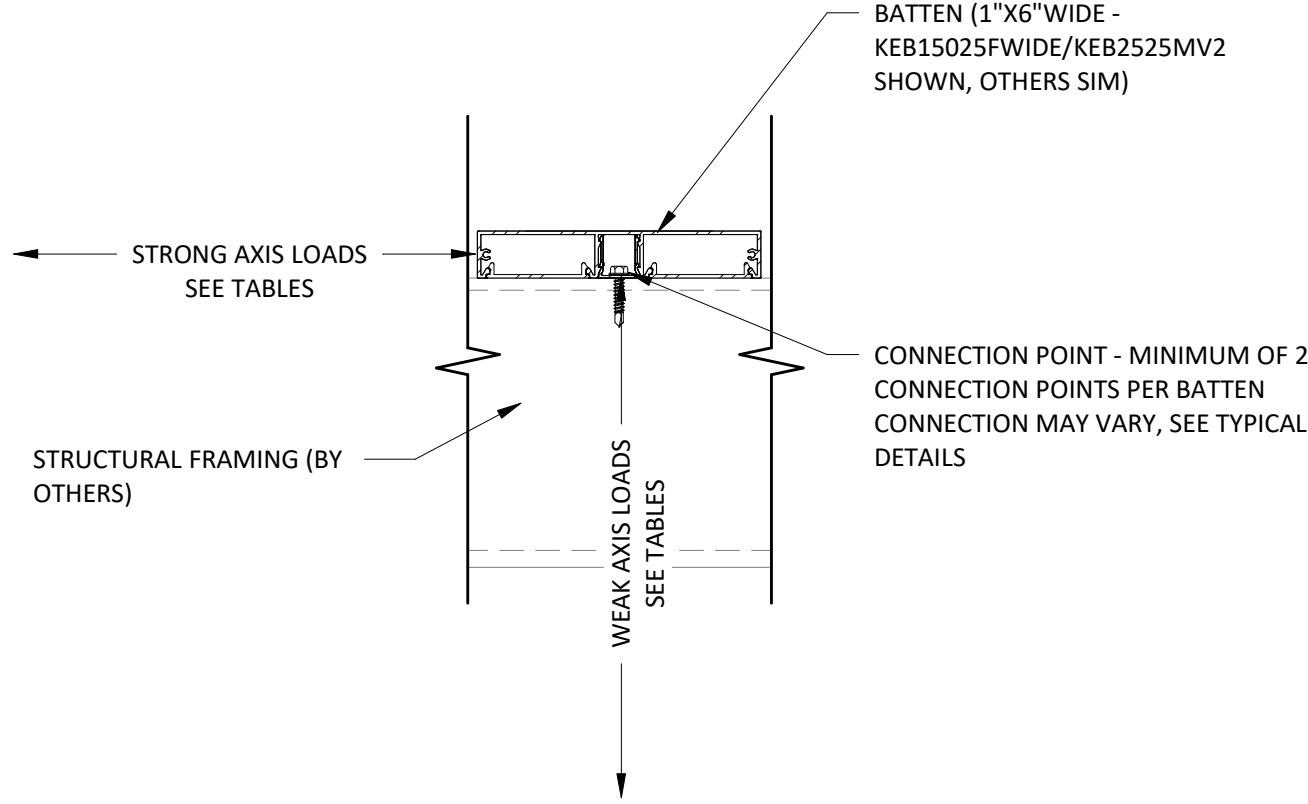
WIDE VERTICAL BATTEN SPAN TABLES

SEAL & SIGNATURE

PROJECT NO:  
20240144  
DRAWN BY:  
DSG  
CHECKED BY:  
JSU  
DRAWING NO:  
S-200  
PAGE NO:  
5 OF 11



1 TYPICAL OVERALL WIDE HORIZONTAL BATTEN SECTION VIEW  
1/2" = 1'-0"



2 TYPICAL WIDE HORIZONTAL BATTEN LOADING DIAGRAM  
3" = 1'-0"

| HORIZONTAL 1X2WIDE (KEB2525MV2/KEB5025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                       | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                          | 1256 PLF                           | 628 LBS | 895 PLF                         | 447 LBS |
| 2'-0"                                                                                          | 313 PLF                            | 313 LBS | 223 PLF                         | 223 LBS |
| 3'-0"                                                                                          | 139 PLF                            | 208 LBS | 99 PLF                          | 148 LBS |
| 4'-0"                                                                                          | 78 PLF                             | 156 LBS | 55 PLF                          | 110 LBS |
| 5'-0"                                                                                          | 49 PLF                             | 124 LBS | 35 PLF                          | 88 LBS  |
| 6'-0"                                                                                          | 34 PLF                             | 103 LBS | 24 PLF                          | 72 LBS  |
| 7'-0"                                                                                          | 25 PLF                             | 87 LBS  | 17 PLF                          | 62 LBS  |
| 8'-0"                                                                                          | 19 PLF                             | 76 LBS  | 11 PLF                          | 53 LBS  |
| 9'-0"                                                                                          | 14 PLF                             | 67 LBS  | 8 PLF                           | 47 LBS  |
| 10'-0"                                                                                         | 12 PLF                             | 60 LBS  | 6 PLF                           | 38 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X2WIDE (KEB2525MV2/KEB5025FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 313 PLF                            | 156 LBS | 223 PLF                         | 111 LBS |
| 2'-0"                                                                                      | 78 PLF                             | 77 LBS  | 55 PLF                          | 54 LBS  |
| 3'-0"                                                                                      | 34 PLF                             | 50 LBS  | 24 PLF                          | 35 LBS  |
| 4'-0"                                                                                      | 19 PLF                             | 37 LBS  | 13 PLF                          | 25 LBS  |
| 5'-0"                                                                                      | 12 PLF                             | 28 LBS  | 8 PLF                           | 19 LBS  |
| 6'-0"                                                                                      | 8 PLF                              | 22 LBS  | 5 PLF                           | 13 LBS  |
| 7'-0"                                                                                      | 5 PLF                              | 18 LBS  | 3 PLF                           | 9 LBS   |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X3WIDE (KEB2525MV2/KEB7525FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                       | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                          | 1319 PLF                           | 660 LBS | 1266 PLF                        | 633 LBS |
| 2'-0"                                                                                          | 659 PLF                            | 660 LBS | 315 PLF                         | 315 LBS |
| 3'-0"                                                                                          | 320 PLF                            | 480 LBS | 139 PLF                         | 209 LBS |
| 4'-0"                                                                                          | 179 PLF                            | 359 LBS | 78 PLF                          | 156 LBS |
| 5'-0"                                                                                          | 114 PLF                            | 287 LBS | 49 PLF                          | 124 LBS |
| 6'-0"                                                                                          | 79 PLF                             | 238 LBS | 34 PLF                          | 102 LBS |
| 7'-0"                                                                                          | 58 PLF                             | 203 LBS | 24 PLF                          | 87 LBS  |
| 8'-0"                                                                                          | 44 PLF                             | 177 LBS | 17 PLF                          | 75 LBS  |
| 9'-0"                                                                                          | 34 PLF                             | 156 LBS | 12 PLF                          | 66 LBS  |
| 10'-0"                                                                                         | 28 PLF                             | 140 LBS | 9 PLF                           | 57 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X3WIDE (KEB2525MV2/KEB7525FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 659 PLF                            | 360 LBS | 315 PLF                         | 157 LBS |
| 2'-0"                                                                                      | 179 PLF                            | 179 LBS | 78 PLF                          | 77 LBS  |
| 3'-0"                                                                                      | 79 PLF                             | 117 LBS | 34 PLF                          | 50 LBS  |
| 4'-0"                                                                                      | 44 PLF                             | 86 LBS  | 18 PLF                          | 35 LBS  |
| 5'-0"                                                                                      | 28 PLF                             | 67 LBS  | 11 PLF                          | 27 LBS  |
| 6'-0"                                                                                      | 19 PLF                             | 54 LBS  | 7 PLF                           | 19 LBS  |
| 7'-0"                                                                                      | 13 PLF                             | 45 LBS  | 5 PLF                           | 14 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X4WIDE (KEB2525MV2/KEB10025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-------------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                        | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                 | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                           | 4263 PLF                           | 2131 LBS | 1204 PLF                        | 603 LBS |
| 2'-0"                                                                                           | 1065 PLF                           | 1065 LBS | 391 PLF                         | 391 LBS |
| 3'-0"                                                                                           | 472 PLF                            | 709 LBS  | 173 PLF                         | 259 LBS |
| 4'-0"                                                                                           | 265 PLF                            | 530 LBS  | 97 PLF                          | 193 LBS |
| 5'-0"                                                                                           | 169 PLF                            | 423 LBS  | 61 PLF                          | 154 LBS |
| 6'-0"                                                                                           | 117 PLF                            | 352 LBS  | 42 PLF                          | 127 LBS |
| 7'-0"                                                                                           | 86 PLF                             | 300 LBS  | 30 PLF                          | 108 LBS |
| 8'-0"                                                                                           | 65 PLF                             | 262 LBS  | 22 PLF                          | 93 LBS  |
| 9'-0"                                                                                           | 51 PLF                             | 232 LBS  | 15 PLF                          | 82 LBS  |
| 10'-0"                                                                                          | 41 PLF                             | 207 LBS  | 11 PLF                          | 70 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X4WIDE (KEB2525MV2/KEB10025FWIDE) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|---------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                       | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                             | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                       | 1065 PLF                           | 531 LBS | 391 PLF                         | 195 LBS |
| 2'-0"                                                                                       | 265 PLF                            | 264 LBS | 97 PLF                          | 95 LBS  |
| 3'-0"                                                                                       | 117 PLF                            | 174 LBS | 42 PLF                          | 62 LBS  |
| 4'-0"                                                                                       | 65 PLF                             | 129 LBS | 23 PLF                          | 44 LBS  |
| 5'-0"                                                                                       | 41 PLF                             | 101 LBS | 14 PLF                          | 33 LBS  |
| 6'-0"                                                                                       | 28 PLF                             | 82 LBS  | 9 PLF                           | 24 LBS  |
| 7'-0"                                                                                       | 20 PLF                             | 68 LBS  | 6 PLF                           | 18 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X6WIDE (KEB2525MV2/KEB15025FWIDE) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-------------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                        | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                 | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                           | 6625 PLF                           | 3313 LBS | 1102 PLF                        | 552 LBS |
| 2'-0"                                                                                           | 2469 PLF                           | 2469 LBS | 550 PLF                         | 552 LBS |
| 3'-0"                                                                                           | 1096 PLF                           | 1645 LBS | 285 PLF                         | 428 LBS |
| 4'-0"                                                                                           | 616 PLF                            | 1232 LBS | 159 PLF                         | 319 LBS |
| 5'-0"                                                                                           | 393 PLF                            | 984 LBS  | 101 PLF                         | 254 LBS |
| 6'-0"                                                                                           | 272 PLF                            | 818 LBS  | 70 PLF                          | 210 LBS |
| 7'-0"                                                                                           | 200 PLF                            | 700 LBS  | 51 PLF                          | 178 LBS |
| 8'-0"                                                                                           | 152 PLF                            | 611 LBS  | 37 PLF                          | 154 LBS |
| 9'-0"                                                                                           | 120 PLF                            | 541 LBS  | 26 PLF                          | 136 LBS |
| 10'-0"                                                                                          | 97 PLF                             | 486 LBS  | 19 PLF                          | 118 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1X6V2 (KEB2525MV2/KEB15025FV2) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|-----------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                         | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                   | 2469 PLF                           | 1234 LBS | 550 PLF                         | 321 LBS |
| 2'-0"                                                                                   | 616 PLF                            | 614 LBS  | 159 PLF                         | 158 LBS |
| 3'-0"                                                                                   | 272 PLF                            | 406 LBS  | 70 PLF                          | 102 LBS |
| 4'-0"                                                                                   | 152 PLF                            | 302 LBS  | 38 PLF                          | 74 LBS  |
| 5'-0"                                                                                   | 97 PLF                             | 238 LBS  | 24 PLF                          | 56 LBS  |
| 6'-0"                                                                                   | 67 PLF                             | 195 LBS  | 16 PLF                          | 41 LBS  |
| 7'-0"                                                                                   | 48 PLF                             | 164 LBS  | 11 PLF                          | 30 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



DRAWING NOTES:

1. ALL FASTENERS TO BE VERIFIED BY OTHERS.
2. WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
3. THESE CAPACITIES EXCLUDE CONFIRMATION OF THE SNAPPED ATTACHMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PART A & PART B PIECES ARE POSITIVELY ATTACHED TO ONE ANOTHER AS NECESSARY TO PREVENT SUPPAGE AND/OR DISLOCATION.

PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

WIDE HORIZONTAL BATTEN SPAN TABLES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

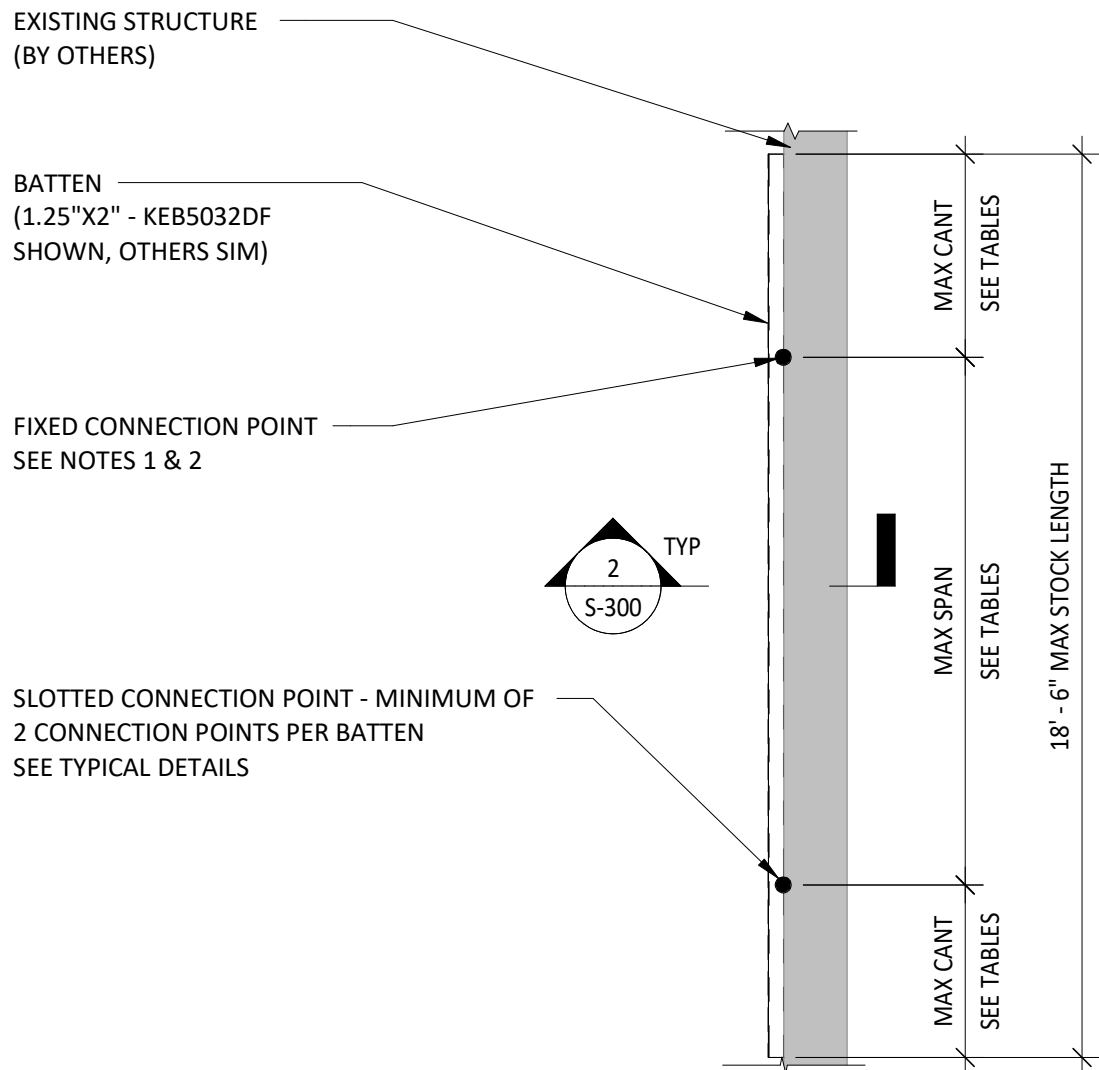
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DRAWING NO:

S-201

PAGE NO:

6 OF 11



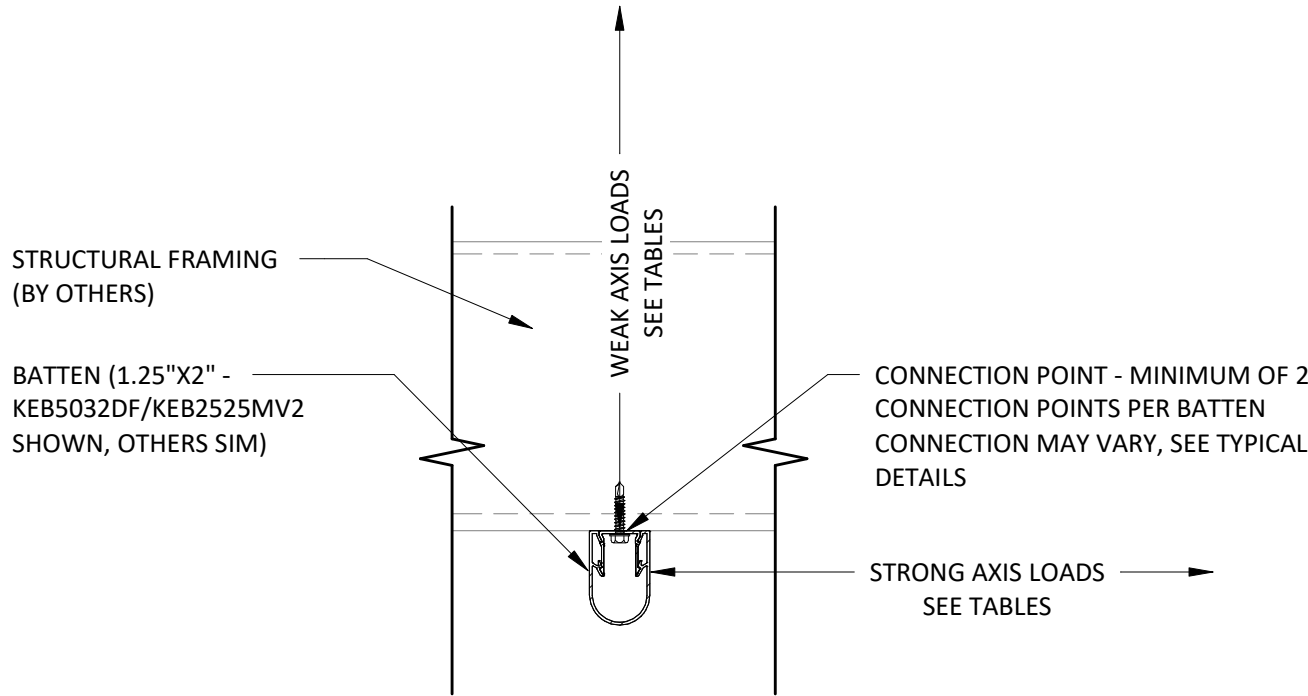
1 TYPICAL OVERALL MISC VERTICAL BATTEN SECTION VIEW  
1/2" = 1'-0"

| VERTICAL 1.5X1.5 (KEB2525MV2/KEB4040F) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                 | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                    | 1394 PLF                           | 697 LBS | 1175 PLF                        | 587 LBS |
| 2'-0"                                                                                    | 348 PLF                            | 348 LBS | 293 PLF                         | 293 LBS |
| 3'-0"                                                                                    | 154 PLF                            | 232 LBS | 130 PLF                         | 195 LBS |
| 4'-0"                                                                                    | 87 PLF                             | 174 LBS | 73 PLF                          | 146 LBS |
| 5'-0"                                                                                    | 55 PLF                             | 139 LBS | 47 PLF                          | 117 LBS |
| 6'-0"                                                                                    | 38 PLF                             | 116 LBS | 32 PLF                          | 97 LBS  |
| 7'-0"                                                                                    | 28 PLF                             | 99 LBS  | 24 PLF                          | 83 LBS  |
| 8'-0"                                                                                    | 21 PLF                             | 87 LBS  | 18 PLF                          | 73 LBS  |
| 9'-0"                                                                                    | 17 PLF                             | 77 LBS  | 14 PLF                          | 65 LBS  |
| 10'-0"                                                                                   | 13 PLF                             | 69 LBS  | 11 PLF                          | 58 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X3DOME (KEB2525MV2/KEB7532DF) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|----------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                              | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                        | 2117 PLF                           | 1058 LBS | 1320 PLF                        | 660 LBS |
| 2'-0"                                                                                        | 529 PLF                            | 529 LBS  | 413 PLF                         | 413 LBS |
| 3'-0"                                                                                        | 235 PLF                            | 352 LBS  | 183 PLF                         | 275 LBS |
| 4'-0"                                                                                        | 132 PLF                            | 264 LBS  | 103 PLF                         | 206 LBS |
| 5'-0"                                                                                        | 84 PLF                             | 211 LBS  | 66 PLF                          | 165 LBS |
| 6'-0"                                                                                        | 58 PLF                             | 176 LBS  | 46 PLF                          | 137 LBS |
| 7'-0"                                                                                        | 43 PLF                             | 151 LBS  | 33 PLF                          | 118 LBS |
| 8'-0"                                                                                        | 33 PLF                             | 132 LBS  | 25 PLF                          | 103 LBS |
| 9'-0"                                                                                        | 26 PLF                             | 117 LBS  | 19 PLF                          | 91 LBS  |
| 10'-0"                                                                                       | 21 PLF                             | 105 LBS  | 14 PLF                          | 82 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED



2 TYPICAL MISC VERTICAL BATTEN LOADING DIAGRAM  
3" = 1'-0"

| VERTICAL 1.5X1.5 (KEB2525MV2/KEB4040F) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                      | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                | 348 PLF                            | 174 LBS | 293 PLF                         | 146 LBS |
| 2'-0"                                                                                | 87 PLF                             | 87 LBS  | 73 PLF                          | 73 LBS  |
| 3'-0"                                                                                | 38 PLF                             | 58 LBS  | 32 PLF                          | 49 LBS  |
| 4'-0"                                                                                | 21 PLF                             | 43 LBS  | 18 PLF                          | 36 LBS  |
| 5'-0"                                                                                | 13 PLF                             | 34 LBS  | 11 PLF                          | 29 LBS  |
| 6'-0"                                                                                | 9 PLF                              | 29 LBS  | 8 PLF                           | 24 LBS  |
| 7'-0"                                                                                | 7 PLF                              | 24 LBS  | 6 PLF                           | 21 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X3DOME (KEB2525MV2/KEB7532DF) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                    | 529 PLF                            | 264 LBS | 413 PLF                         | 206 LBS |
| 2'-0"                                                                                    | 132 PLF                            | 132 LBS | 103 PLF                         | 103 LBS |
| 3'-0"                                                                                    | 58 PLF                             | 88 LBS  | 46 PLF                          | 68 LBS  |
| 4'-0"                                                                                    | 33 PLF                             | 66 LBS  | 25 PLF                          | 51 LBS  |
| 5'-0"                                                                                    | 21 PLF                             | 52 LBS  | 16 PLF                          | 41 LBS  |
| 6'-0"                                                                                    | 14 PLF                             | 44 LBS  | 11 PLF                          | 31 LBS  |
| 7'-0"                                                                                    | 10 PLF                             | 37 LBS  | 8 PLF                           | 23 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X1.25 (KEB2525MV2/KEB3232F) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 953 PLF                            | 476 LBS | 790 PLF                         | 395 LBS |
| 2'-0"                                                                                      | 238 PLF                            | 238 LBS | 197 PLF                         | 197 LBS |
| 3'-0"                                                                                      | 106 PLF                            | 158 LBS | 87 PLF                          | 131 LBS |
| 4'-0"                                                                                      | 59 PLF                             | 119 LBS | 48 PLF                          | 98 LBS  |
| 5'-0"                                                                                      | 38 PLF                             | 95 LBS  | 31 PLF                          | 79 LBS  |
| 6'-0"                                                                                      | 26 PLF                             | 79 LBS  | 22 PLF                          | 65 LBS  |
| 7'-0"                                                                                      | 19 PLF                             | 68 LBS  | 16 PLF                          | 56 LBS  |
| 8'-0"                                                                                      | 14 PLF                             | 59 LBS  | 12 PLF                          | 49 LBS  |
| 9'-0"                                                                                      | 11 PLF                             | 53 LBS  | 9 PLF                           | 43 LBS  |
| 10'-0"                                                                                     | 8 PLF                              | 47 LBS  | 7 PLF                           | 39 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X2DOME (KEB2525MV2/KEB5032DF) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                              | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                        | 1119 PLF                           | 559 LBS | 1019 PLF                        | 510 LBS |
| 2'-0"                                                                                        | 280 PLF                            | 280 LBS | 254 PLF                         | 254 LBS |
| 3'-0"                                                                                        | 124 PLF                            | 186 LBS | 112 PLF                         | 169 LBS |
| 4'-0"                                                                                        | 70 PLF                             | 140 LBS | 63 PLF                          | 126 LBS |
| 5'-0"                                                                                        | 44 PLF                             | 112 LBS | 40 PLF                          | 100 LBS |
| 6'-0"                                                                                        | 31 PLF                             | 93 LBS  | 27 PLF                          | 83 LBS  |
| 7'-0"                                                                                        | 22 PLF                             | 80 LBS  | 20 PLF                          | 70 LBS  |
| 8'-0"                                                                                        | 17 PLF                             | 70 LBS  | 15 PLF                          | 61 LBS  |
| 9'-0"                                                                                        | 13 PLF                             | 62 LBS  | 12 PLF                          | 54 LBS  |
| 10'-0"                                                                                       | 9 PLF                              | 56 LBS  | 9 PLF                           | 48 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X1.25 (KEB2525MV2/KEB3232F) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |        |
|----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|--------|
| MAX CANTILEVER LENGTH                                                                  | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |        |
|                                                                                        | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT  |
| 1'-0"                                                                                  | 238 PLF                            | 119 LBS | 197 PLF                         | 98 LBS |
| 2'-0"                                                                                  | 59 PLF                             | 59 LBS  | 49 PLF                          | 49 LBS |
| 3'-0"                                                                                  | 26 PLF                             | 39 LBS  | 22 PLF                          | 32 LBS |
| 4'-0"                                                                                  | 14 PLF                             | 29 LBS  | 12 PLF                          | 24 LBS |
| 5'-0"                                                                                  | 9 PLF                              | 23 LBS  | 7 PLF                           | 19 LBS |
| 6'-0"                                                                                  | 6 PLF                              | 18 LBS  | 5 PLF                           | 15 LBS |
| 7'-0"                                                                                  | 4 PLF                              | 13 LBS  | 4 PLF                           | 11 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| VERTICAL 1.25X2DOME (KEB2525MV2/KEB5032DF) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                    | 280 PLF                            | 140 LBS | 255 PLF                         | 127 LBS |
| 2'-0"                                                                                    | 70 PLF                             | 70 LBS  | 63 PLF                          | 63 LBS  |
| 3'-0"                                                                                    | 31 PLF                             | 46 LBS  | 28 PLF                          | 42 LBS  |
| 4'-0"                                                                                    | 17 PLF                             | 35 LBS  | 15 PLF                          | 31 LBS  |
| 5'-0"                                                                                    | 11 PLF                             | 28 LBS  | 10 PLF                          | 25 LBS  |
| 6'-0"                                                                                    | 7 PLF                              | 21 LBS  | 7 PLF                           | 21 LBS  |
| 7'-0"                                                                                    | 5 PLF                              | 15 LBS  | 5 PLF                           | 18 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN  
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7  
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



DRAWING NOTES:

- ALL FASTENERS TO BE VERIFIED BY OTHERS.
- WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
- THESE CAPACITIES EXCLUDE CONFIRMATION OF THE SNAPPED ATTACHMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PART A & PART B PIECES ARE POSITIVELY ATTACHED TO ONE ANOTHER AS NECESSARY TO PREVENT SUPPAGE AND/OR DISLOCATION.

PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

MISC 1IN CLIP VERTICAL BATTEN SPAN  
TABLES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

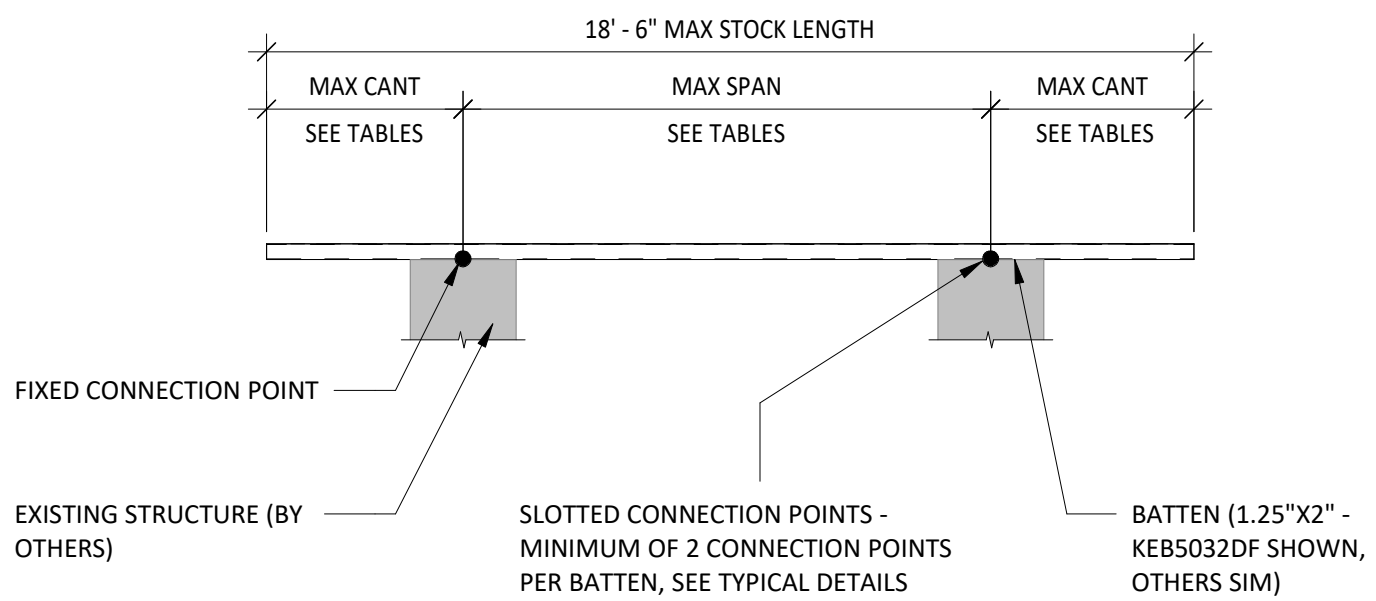
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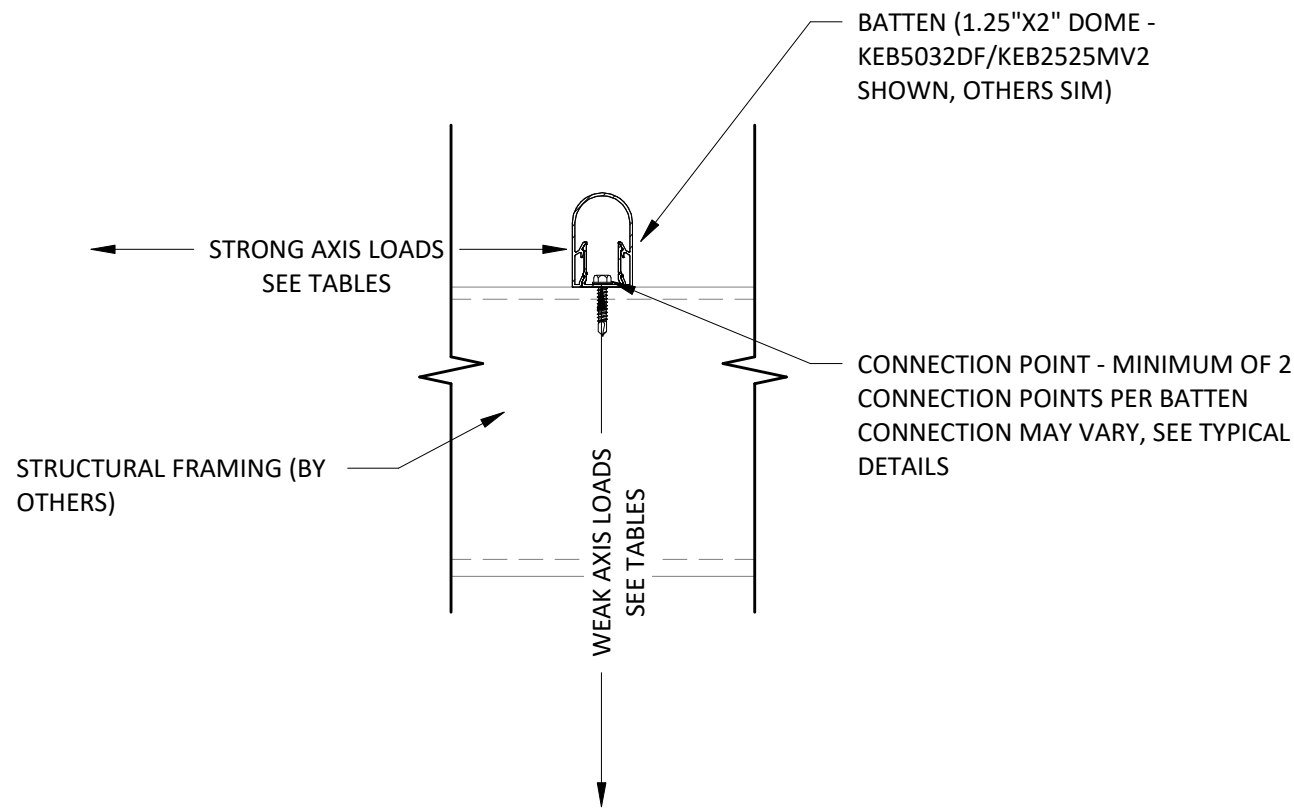
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PAGE NO:

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1 TYPICAL OVERALL MISC HORIZONTAL BATTEN SECTION VIEW  
1/2" = 1'-0"



2 TYPICAL MISC HORIZONTAL BATTEN LOADING DIAGRAM  
3" = 1'-0"

| HORIZONTAL 1.25X1.25 (KEB2525MV2/KEB3232F) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                     | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                              | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                        | 953 PLF                            | 476 LBS | 790 PLF                         | 395 LBS |
| 2'-0"                                                                                        | 237 PLF                            | 237 LBS | 197 PLF                         | 197 LBS |
| 3'-0"                                                                                        | 105 PLF                            | 158 LBS | 87 PLF                          | 131 LBS |
| 4'-0"                                                                                        | 59 PLF                             | 118 LBS | 48 PLF                          | 97 LBS  |
| 5'-0"                                                                                        | 37 PLF                             | 94 LBS  | 31 PLF                          | 77 LBS  |
| 6'-0"                                                                                        | 26 PLF                             | 77 LBS  | 21 PLF                          | 64 LBS  |
| 7'-0"                                                                                        | 18 PLF                             | 66 LBS  | 15 PLF                          | 54 LBS  |
| 8'-0"                                                                                        | 14 PLF                             | 57 LBS  | 11 PLF                          | 47 LBS  |
| 9'-0"                                                                                        | 11 PLF                             | 50 LBS  | 9 PLF                           | 41 LBS  |
| 10'-0"                                                                                       | 8 PLF                              | 45 LBS  | 7 PLF                           | 36 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.25X1.25 (KEB2525MV2/KEB3232F) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |        |
|------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|--------|
| MAX CANTILEVER LENGTH                                                                    | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |        |
|                                                                                          | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT  |
| 1'-0"                                                                                    | 237 PLF                            | 118 LBS | 197 PLF                         | 98 LBS |
| 2'-0"                                                                                    | 59 PLF                             | 58 LBS  | 48 PLF                          | 48 LBS |
| 3'-0"                                                                                    | 26 PLF                             | 38 LBS  | 21 PLF                          | 31 LBS |
| 4'-0"                                                                                    | 14 PLF                             | 27 LBS  | 11 PLF                          | 22 LBS |
| 5'-0"                                                                                    | 9 PLF                              | 21 LBS  | 7 PLF                           | 17 LBS |
| 6'-0"                                                                                    | 6 PLF                              | 16 LBS  | 5 PLF                           | 13 LBS |
| 7'-0"                                                                                    | 4 PLF                              | 13 LBS  | 3 PLF                           | 10 LBS |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.5X1.5 (KEB2525MV2/KEB4040F) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                   | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 1393 PLF                           | 696 LBS | 1174 PLF                        | 587 LBS |
| 2'-0"                                                                                      | 347 PLF                            | 347 LBS | 293 PLF                         | 293 LBS |
| 3'-0"                                                                                      | 154 PLF                            | 231 LBS | 129 PLF                         | 194 LBS |
| 4'-0"                                                                                      | 86 PLF                             | 173 LBS | 72 PLF                          | 145 LBS |
| 5'-0"                                                                                      | 55 PLF                             | 137 LBS | 46 PLF                          | 115 LBS |
| 6'-0"                                                                                      | 38 PLF                             | 96 LBS  | 32 PLF                          | 96 LBS  |
| 7'-0"                                                                                      | 27 PLF                             | 96 LBS  | 23 PLF                          | 81 LBS  |
| 8'-0"                                                                                      | 21 PLF                             | 84 LBS  | 17 PLF                          | 70 LBS  |
| 9'-0"                                                                                      | 16 PLF                             | 74 LBS  | 13 PLF                          | 62 LBS  |
| 10'-0"                                                                                     | 13 PLF                             | 66 LBS  | 11 PLF                          | 55 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.5X1.5 (KEB2525MV2/KEB4040F) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|----------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                  | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                        | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                  | 347 PLF                            | 173 LBS | 293 PLF                         | 146 LBS |
| 2'-0"                                                                                  | 86 PLF                             | 85 LBS  | 72 PLF                          | 72 LBS  |
| 3'-0"                                                                                  | 38 PLF                             | 56 LBS  | 32 PLF                          | 47 LBS  |
| 4'-0"                                                                                  | 21 PLF                             | 41 LBS  | 17 PLF                          | 34 LBS  |
| 5'-0"                                                                                  | 13 PLF                             | 31 LBS  | 11 PLF                          | 26 LBS  |
| 6'-0"                                                                                  | 9 PLF                              | 25 LBS  | 7 PLF                           | 20 LBS  |
| 7'-0"                                                                                  | 6 PLF                              | 20 LBS  | 5 PLF                           | 16 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.25X2DOME (KEB2525MV2/KEB5032DF) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|------------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX SPAN                                                                                       | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                          | 1119 PLF                           | 559 LBS | 1019 PLF                        | 510 LBS |
| 2'-0"                                                                                          | 279 PLF                            | 279 LBS | 254 PLF                         | 254 LBS |
| 3'-0"                                                                                          | 123 PLF                            | 185 LBS | 112 PLF                         | 169 LBS |
| 4'-0"                                                                                          | 69 PLF                             | 138 LBS | 63 PLF                          | 126 LBS |
| 5'-0"                                                                                          | 44 PLF                             | 110 LBS | 40 PLF                          | 100 LBS |
| 6'-0"                                                                                          | 30 PLF                             | 91 LBS  | 27 PLF                          | 83 LBS  |
| 7'-0"                                                                                          | 22 PLF                             | 77 LBS  | 20 PLF                          | 70 LBS  |
| 8'-0"                                                                                          | 16 PLF                             | 67 LBS  | 15 PLF                          | 61 LBS  |
| 9'-0"                                                                                          | 13 PLF                             | 59 LBS  | 12 PLF                          | 54 LBS  |
| 10'-0"                                                                                         | 9 PLF                              | 53 LBS  | 9 PLF                           | 48 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.25X2DOME (KEB2525MV2/KEB5032DF) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 279 PLF                            | 139 LBS | 254 PLF                         | 127 LBS |
| 2'-0"                                                                                      | 69 PLF                             | 68 LBS  | 63 PLF                          | 62 LBS  |
| 3'-0"                                                                                      | 30 PLF                             | 44 LBS  | 27 PLF                          | 40 LBS  |
| 4'-0"                                                                                      | 16 PLF                             | 32 LBS  | 15 PLF                          | 29 LBS  |
| 5'-0"                                                                                      | 10 PLF                             | 25 LBS  | 9 PLF                           | 22 LBS  |
| 6'-0"                                                                                      | 7 PLF                              | 19 LBS  | 6 PLF                           | 17 LBS  |
| 7'-0"                                                                                      | 5 PLF                              | 15 LBS  | 4 PLF                           | 14 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.25X3DOME (KEB2525MV2/KEB7532DF) SIMPLY SUPPORTED BATTEN SPAN TABLE <sup>123</sup> |                                    |          |                                 |         |
|------------------------------------------------------------------------------------------------|------------------------------------|----------|---------------------------------|---------|
| MAX SPAN                                                                                       | MAX STRONG AXIS LOADS <sup>2</sup> |          | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                                | DISTRIBUTED                        | POINT    | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                          | 2116 PLF                           | 1058 LBS | 1320 PLF                        | 660 LBS |
| 2'-0"                                                                                          | 528 PLF                            | 528 LBS  | 412 PLF                         | 412 LBS |
| 3'-0"                                                                                          | 234 PLF                            | 351 LBS  | 183 PLF                         | 274 LBS |
| 4'-0"                                                                                          | 131 PLF                            | 263 LBS  | 102 PLF                         | 205 LBS |
| 5'-0"                                                                                          | 83 PLF                             | 209 LBS  | 65 PLF                          | 163 LBS |
| 6'-0"                                                                                          | 58 PLF                             | 174 LBS  | 45 PLF                          | 135 LBS |
| 7'-0"                                                                                          | 42 PLF                             | 148 LBS  | 32 PLF                          | 115 LBS |
| 8'-0"                                                                                          | 32 PLF                             | 129 LBS  | 25 PLF                          | 100 LBS |
| 9'-0"                                                                                          | 25 PLF                             | 113 LBS  | 19 PLF                          | 88 LBS  |
| 10'-0"                                                                                         | 20 PLF                             | 101 LBS  | 14 PLF                          | 78 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

| HORIZONTAL 1.25X3DOME (KEB2525MV2/KEB7532DF) CANTILEVERED BATTEN SPAN TABLE <sup>123</sup> |                                    |         |                                 |         |
|--------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------|---------|
| MAX CANTILEVER LENGTH                                                                      | MAX STRONG AXIS LOADS <sup>2</sup> |         | MAX WEAK AXIS LOAD <sup>2</sup> |         |
|                                                                                            | DISTRIBUTED                        | POINT   | DISTRIBUTED                     | POINT   |
| 1'-0"                                                                                      | 528 PLF                            | 263 LBS | 412 PLF                         | 206 LBS |
| 2'-0"                                                                                      | 131 PLF                            | 130 LBS | 102 PLF                         | 101 LBS |
| 3'-0"                                                                                      | 58 PLF                             | 85 LBS  | 45 PLF                          | 66 LBS  |
| 4'-0"                                                                                      | 32 PLF                             | 62 LBS  | 25 PLF                          | 48 LBS  |
| 5'-0"                                                                                      | 20 PLF                             | 48 LBS  | 15 PLF                          | 37 LBS  |
| 6'-0"                                                                                      | 13 PLF                             | 39 LBS  | 10 PLF                          | 29 LBS  |
| 7'-0"                                                                                      | 10 PLF                             | 32 LBS  | 7 PLF                           | 23 LBS  |

1. CONNECTIONS SHALL BE VERIFIED BY EOR AND MAY CONTROL SPAN
2. MAXIMUM ASD FACTORED LOADS ALLOWED FOR SPAN AS DEFINED BY ASCE 7
3. MAXIMUM DEFLECTION OF L/60 FOR ALUMINUM MEMBERS PER IBC CONSIDERED

PREPARED BY:



DRAWING NOTES:

1. ALL FASTENERS TO BE VERIFIED BY OTHERS.
2. WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6 TO 1, THERE SHALL BE ONE LINE OF BRIDGING FOR EVERY 8 FEET OF SPAN UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE. THE BRIDGE SHALL CONSIST OF NOT LESS THAN 1X3 LUMBER, 1X3 ALUMINUM BATTENS, OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY. LINE OF BRIDGING REQUIRED AT ALL SUPPORTS WHERE EQUIVALENT LATERAL SUPPORT IS NOT OTHERWISE PROVIDED.
3. THESE CAPACITIES EXCLUDE CONFIRMATION OF THE SNAPPED ATTACHMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PART A & PART B PIECES ARE POSITIVELY ATTACHED TO ONE ANOTHER AS NECESSARY TO PREVENT SLIPPAGE AND/OR DISLOCATION.

PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

MISC 1IN CLIP HORIZONTAL BATTEN SPAN  
TABLES

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

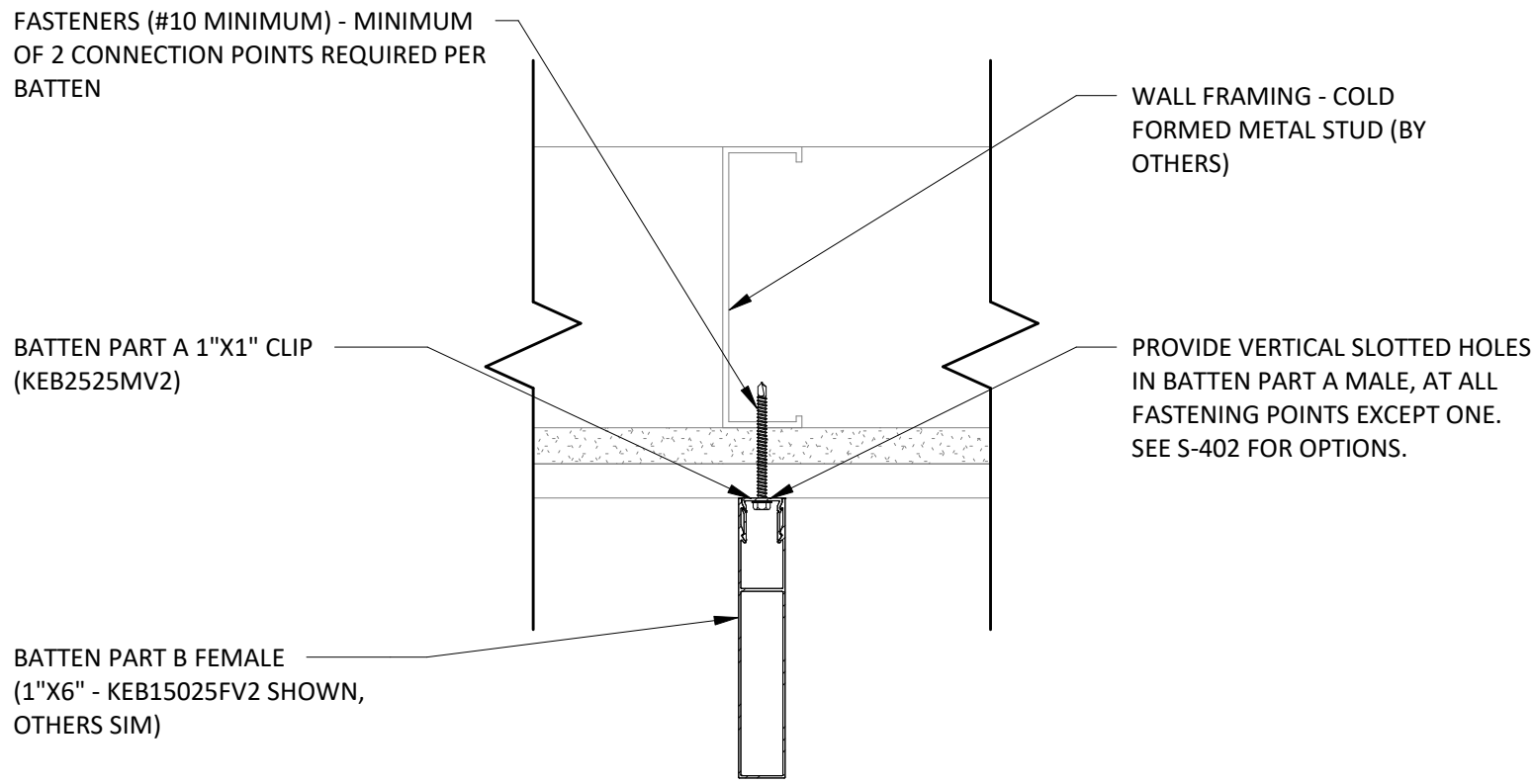
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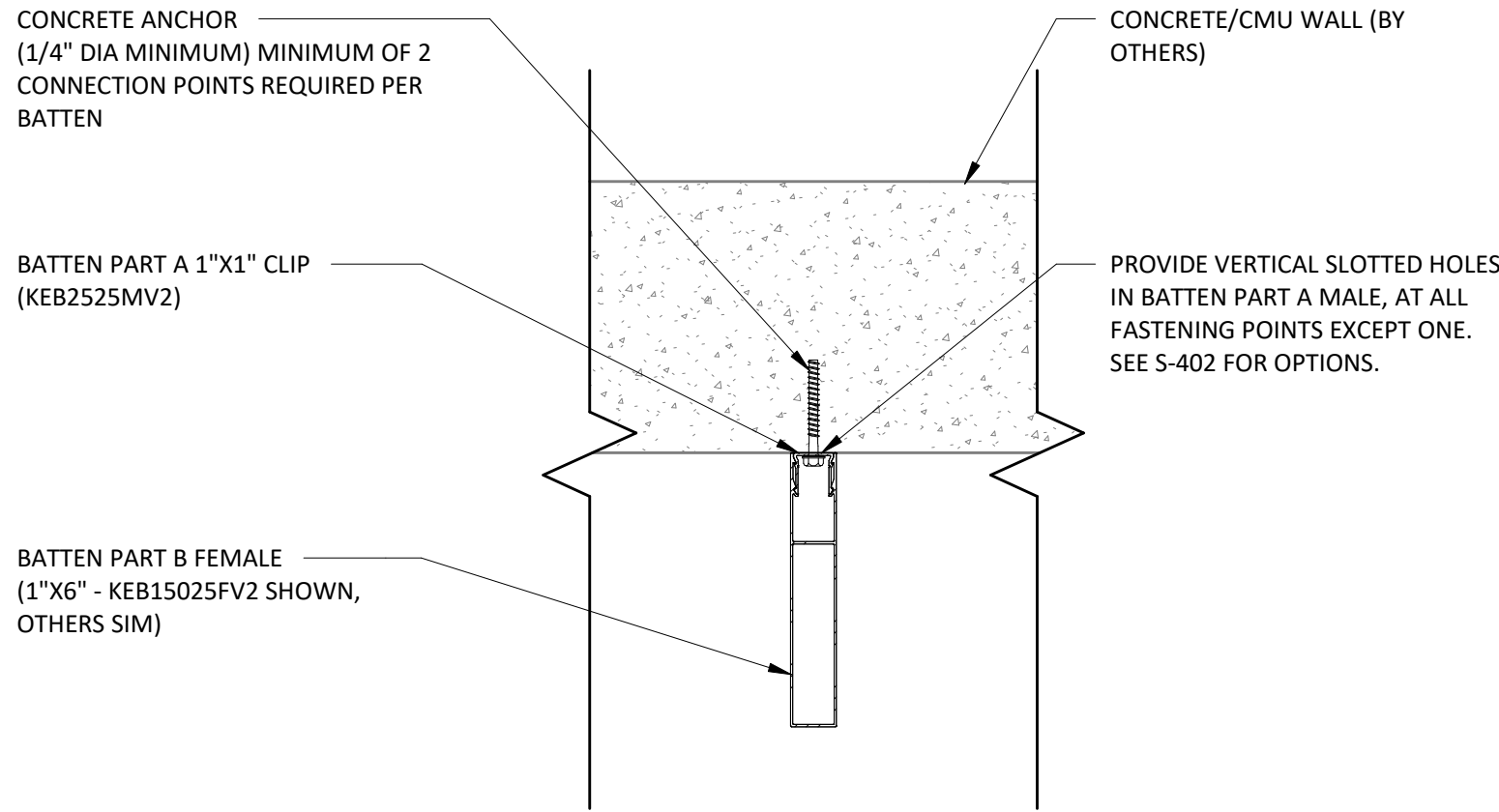
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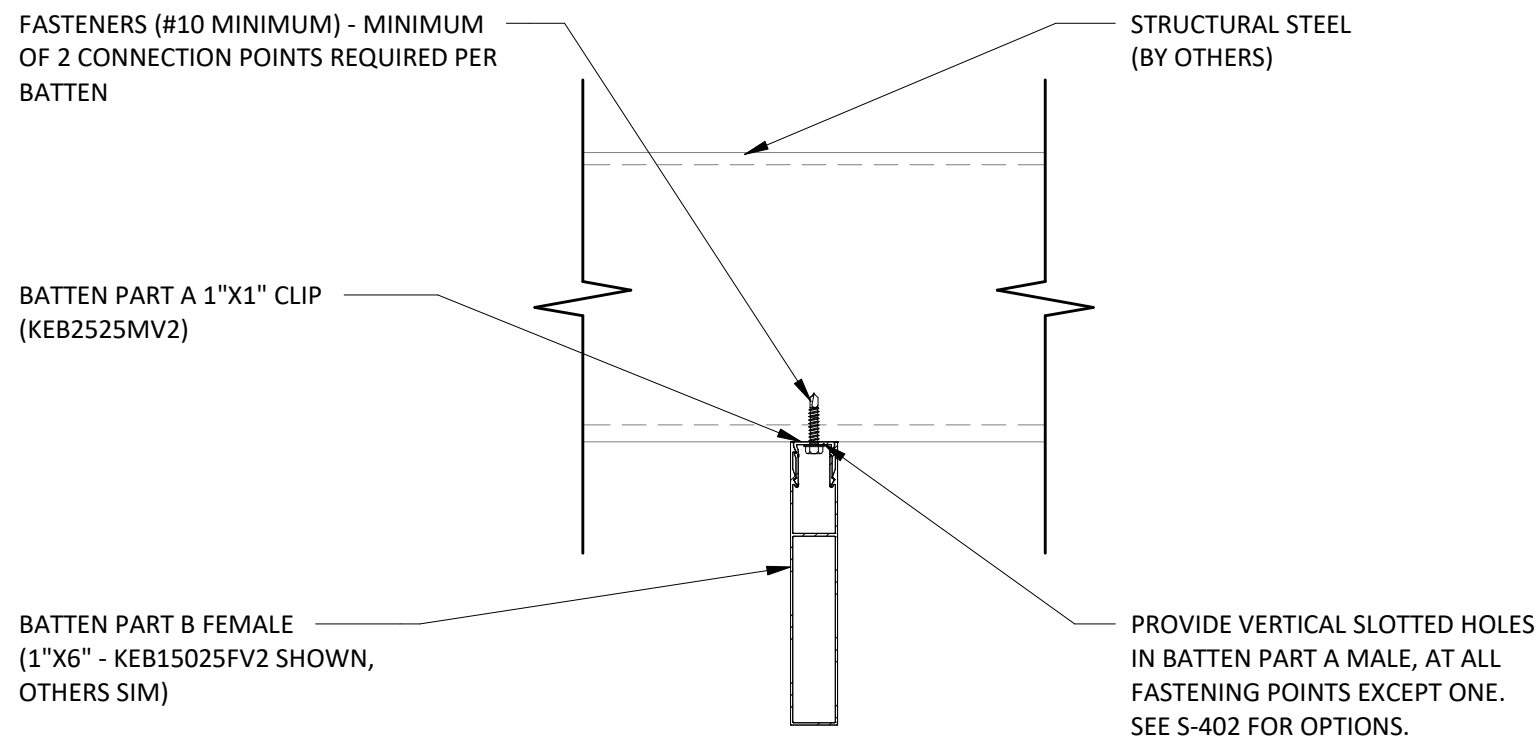
8 OF 11



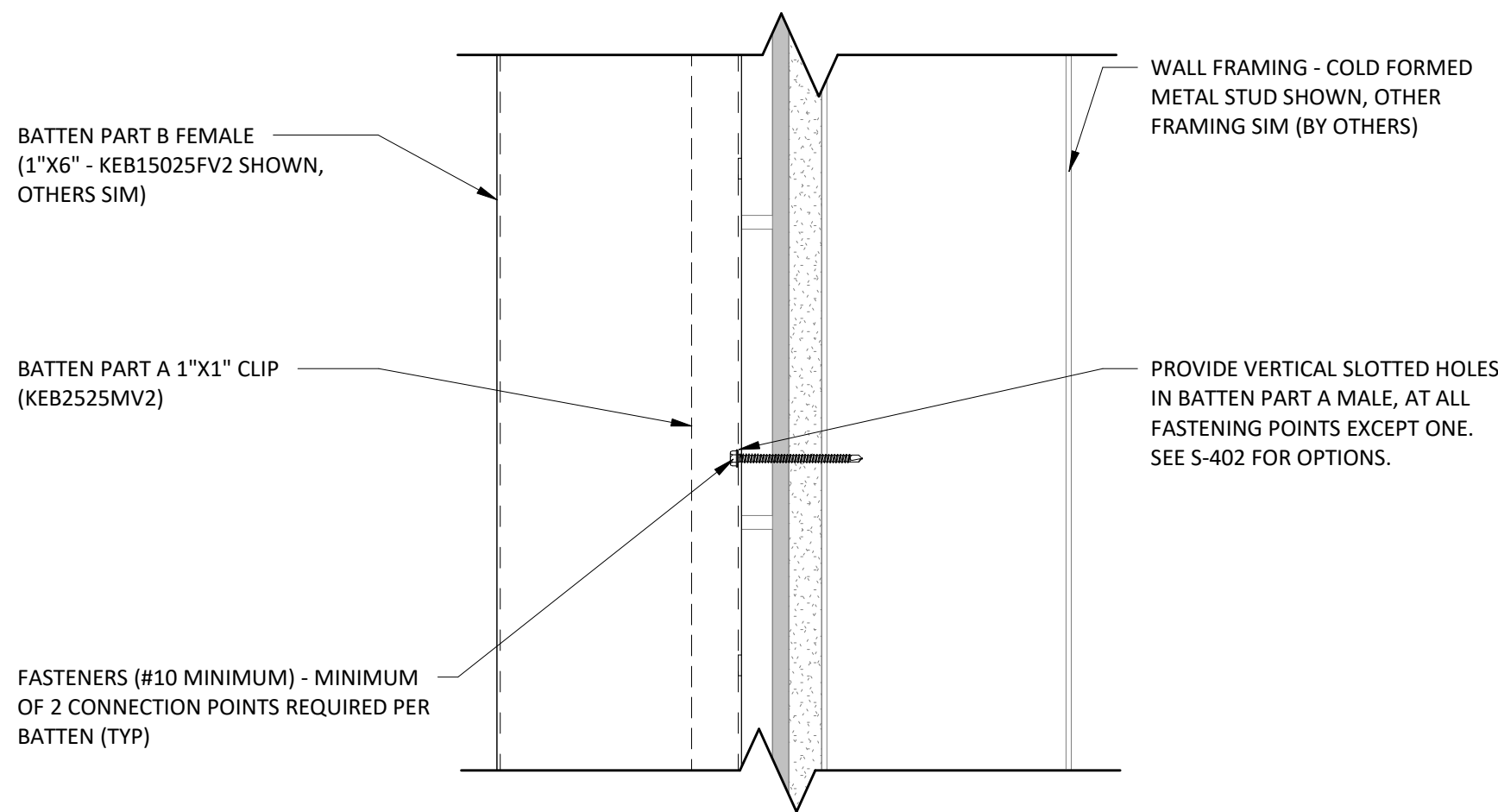
1 TYPICAL VERTICAL BATTEN CONNECTION TO LIGHT GAUGE PLAN VIEW  
3" = 1'-0"



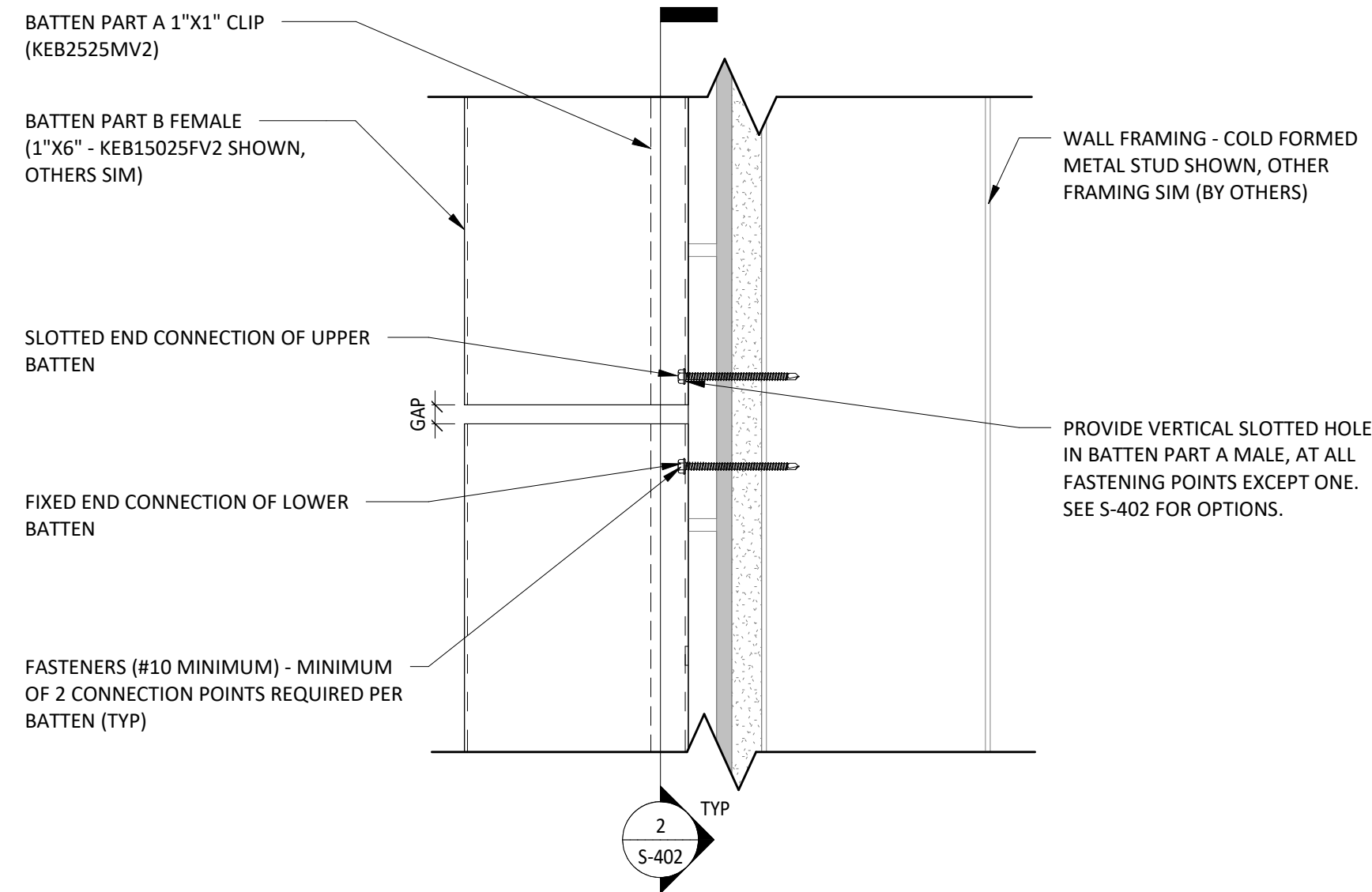
2 TYPICAL VERTICAL BATTEN CONNECTION TO CONCRETE/CMU PLAN VIEW  
3" = 1'-0"



3 TYPICAL VERTICAL BATTEN CONNECTION TO STRUCTURAL STEEL PLAN VIEW  
3" = 1'-0"



4 TYPICAL VERTICAL BATTEN CONNECTION SECTION VIEW  
3" = 1'-0"



5 TYPICAL VERTICAL BATTEN SPLICE CONNECTION SECTION VIEW  
3" = 1'-0"

PREPARED BY:



PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

TYPICAL VERTICAL BATTEN CONNECTION  
DETAILS

SEAL & SIGNATURE

PROJECT NO:

20240144

DRAWN BY:

DSG

CHECKED BY:

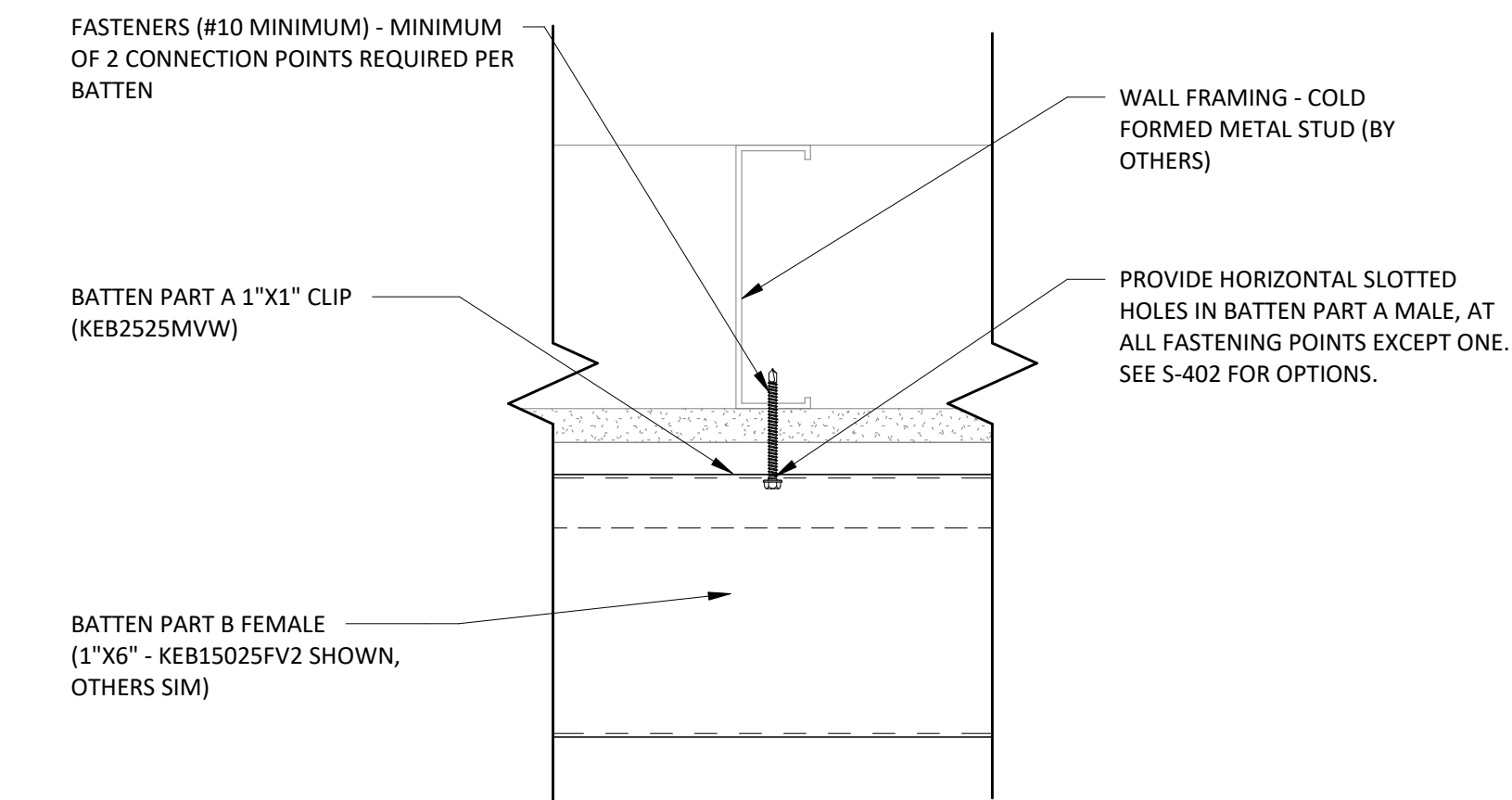
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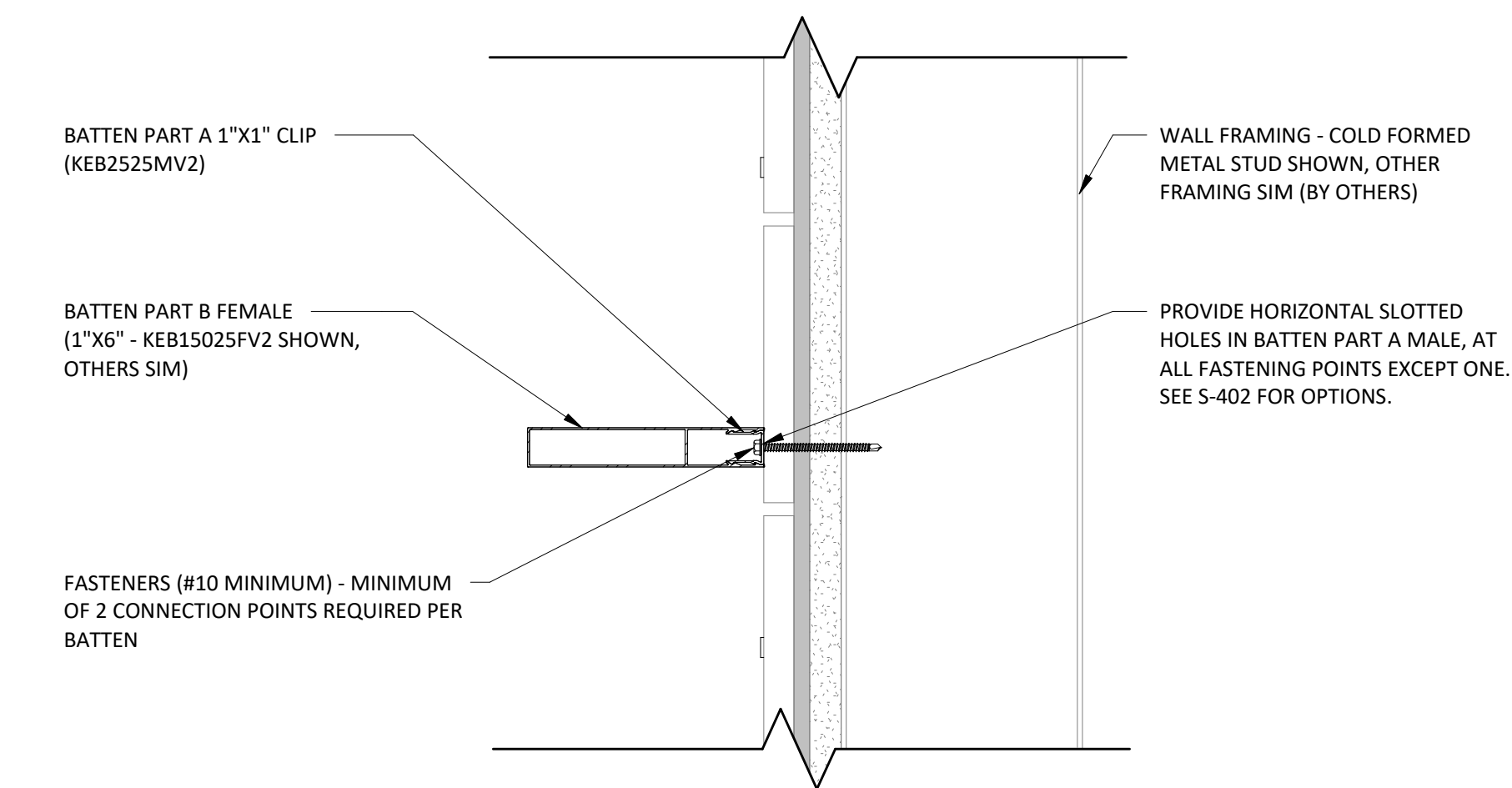
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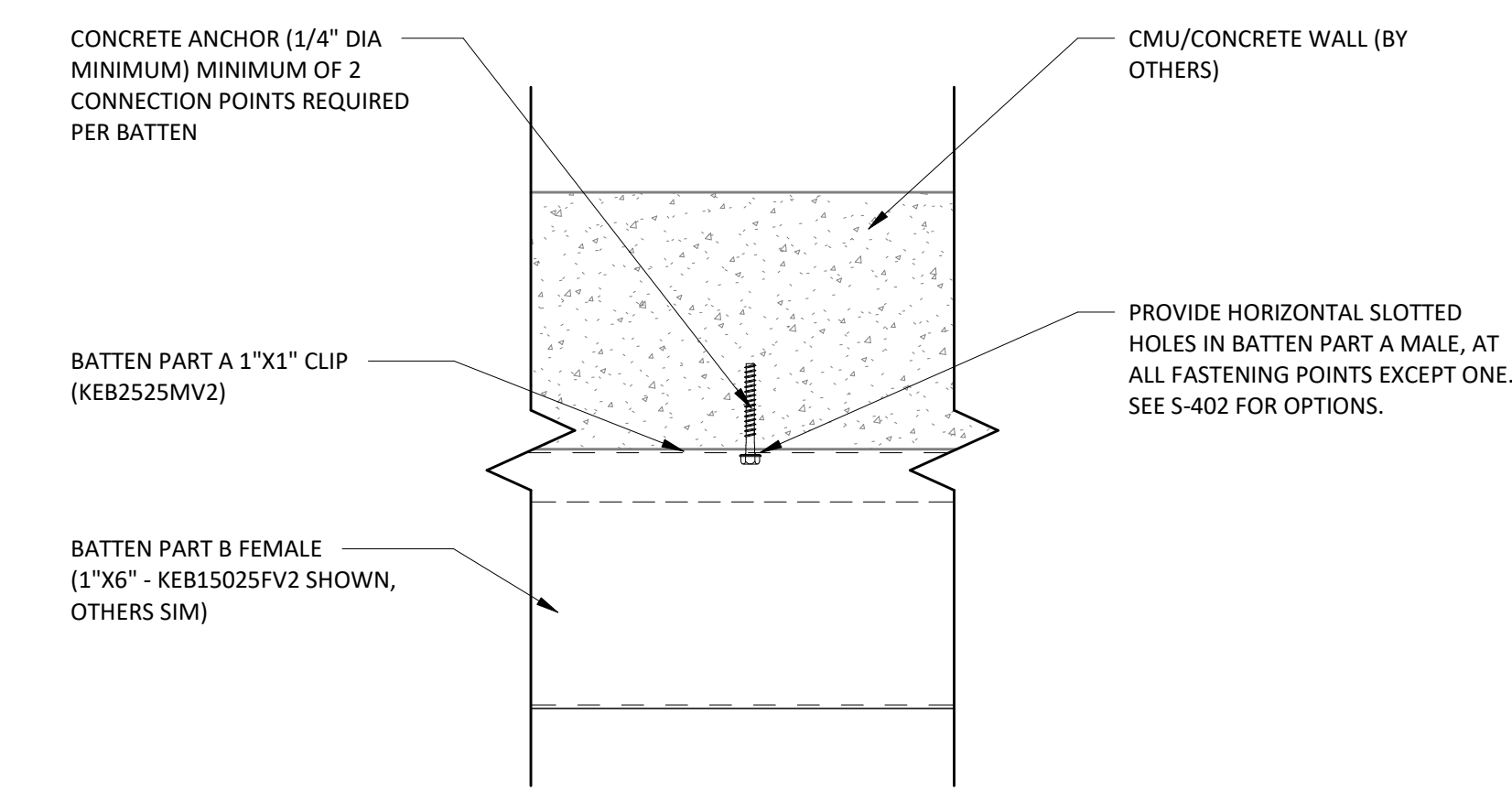
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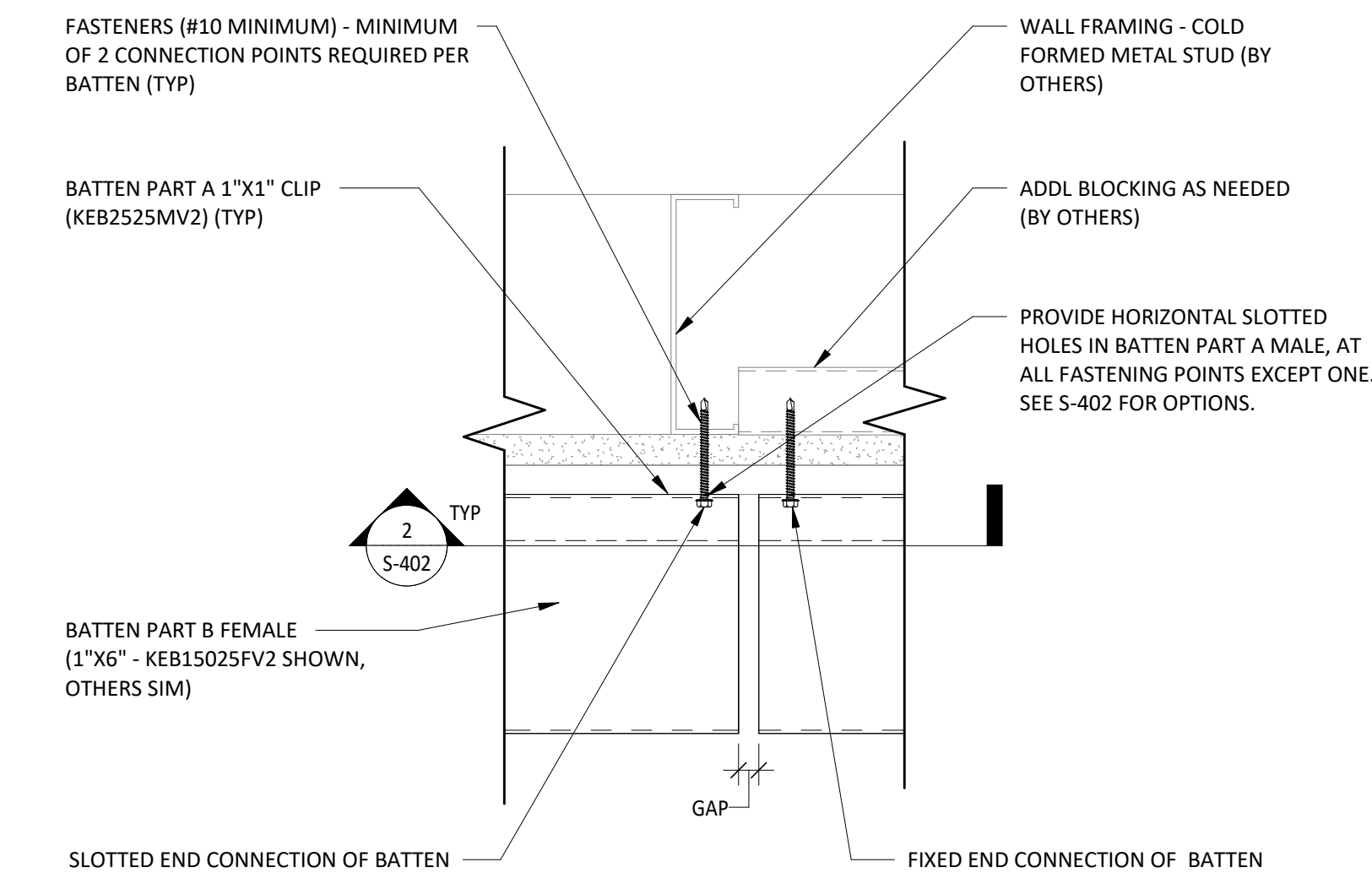
1 TYPICAL HORIZONTAL BATTEN CONNECTION TO LIGHT GAUGE PLAN VIEW  
3" = 1'-0"



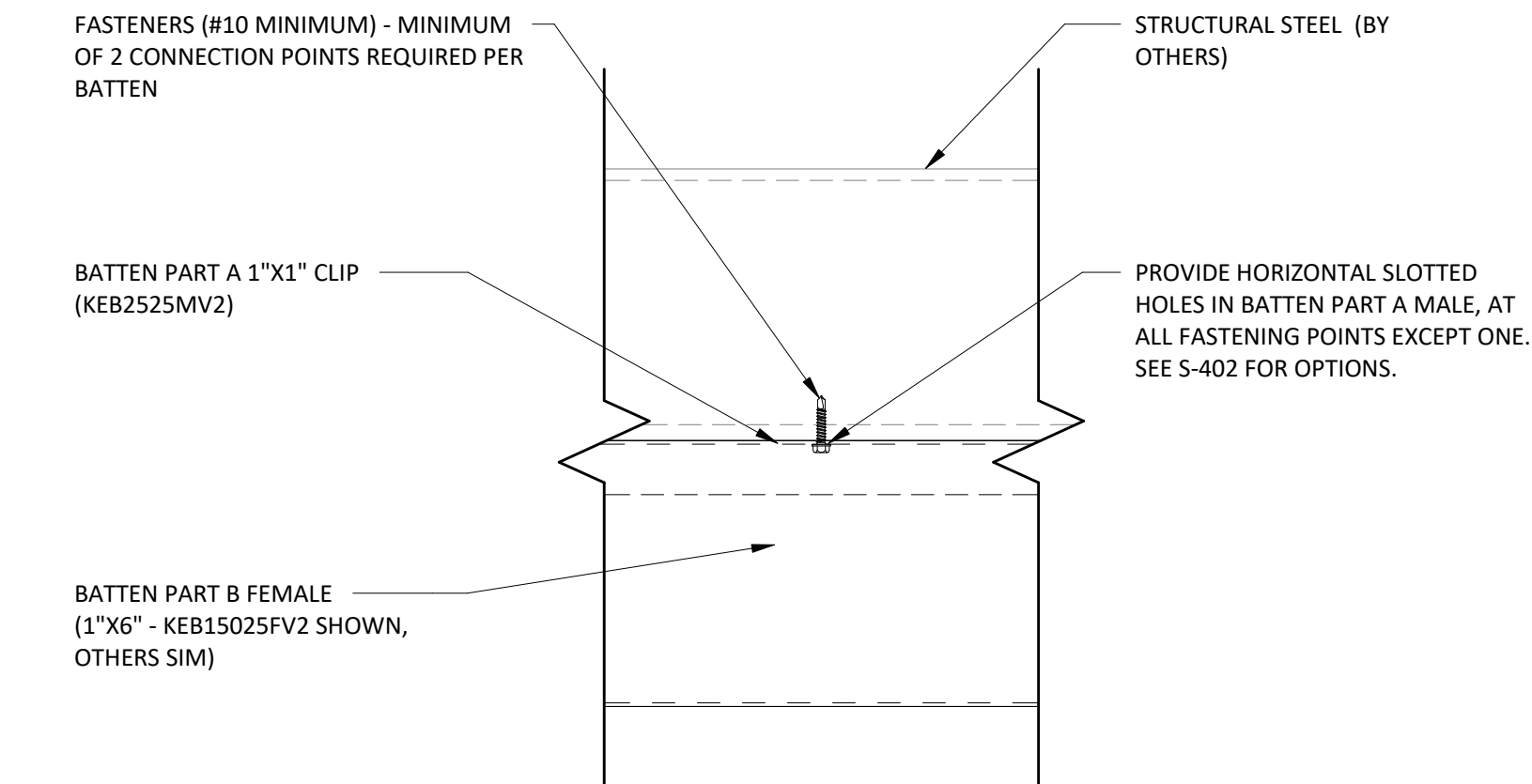
4 TYPICAL HORIZONTAL BATTEN CONNECTION SECTION VIEW  
3" = 1'-0"



2 TYPICAL HORIZONTAL BATTEN CONNECTION TO CONCRETE/CMU PLAN VIEW  
3" = 1'-0"



5 TYPICAL HORIZONTAL BATTEN SPLICE CONNECTION PLAN VIEW  
3" = 1'-0"



3 TYPICAL HORIZONTAL BATTEN CONNECTION TO STRUCTURAL STEEL PLAN VIEW  
3" = 1'-0"

PREPARED BY:



PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

| NO. | DATE | DESCRIPTION |
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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

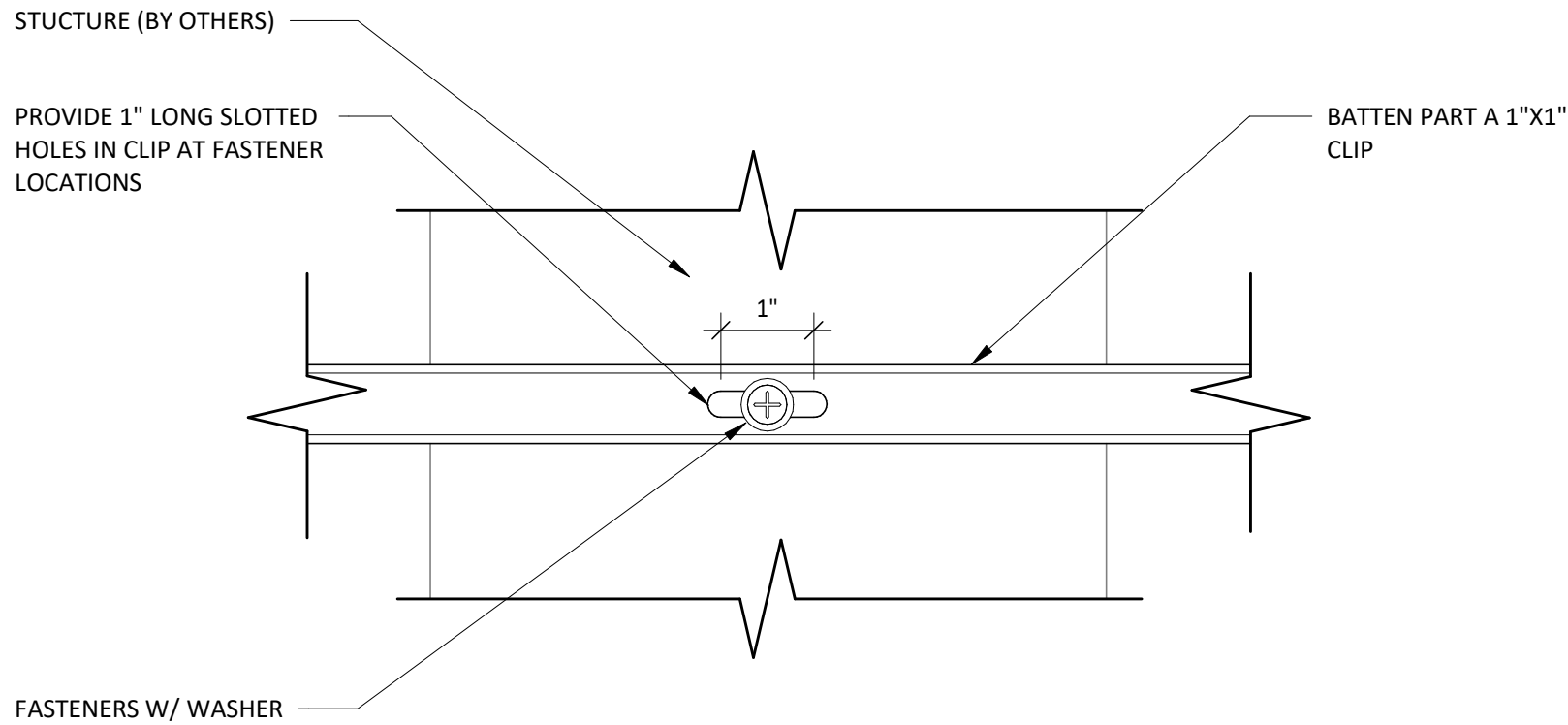
DRAWING NAME:

TYPICAL HORIZONTAL BATTEN CONNECTION  
DETAILS

SEAL & SIGNATURE

PROJECT NO:  
20240144  
DRAWN BY:  
DSG  
CHECKED BY:  
JSU  
DRAWING NO:  
S-401  
PAGE NO:  
10 OF 11

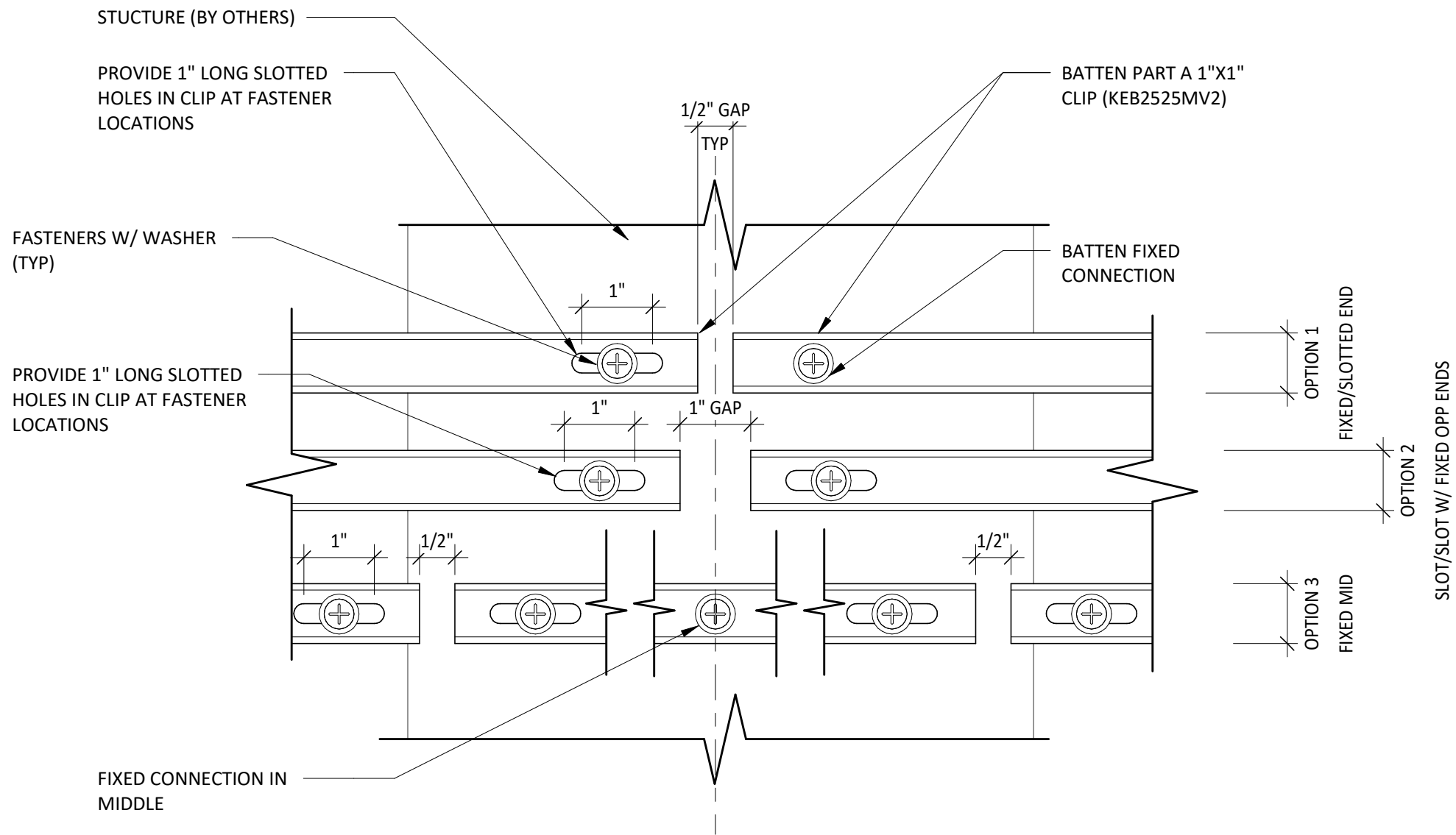
NOTE:  
BATTEN PART B FEMALE NOT SHOWN FOR CLARITY



NOTE:  
GAPS AND SLOT LENGTHS ABOVE ARE BASED ON SINGLE  
FIXED POINT WITH 100 DEGREE TEMPERATURE CHANGE  
AND FULL LENGTH (18'-6") BATTEN. SLOTS AND GAPS  
MAY BE LINERALLY REDUCED BASED ON OVERALL PART  
LENGTH. I.E., A 9'-3" LONG BATTEN MAY HAVE SLOT AND  
GAP REDUCED BY 1/2.

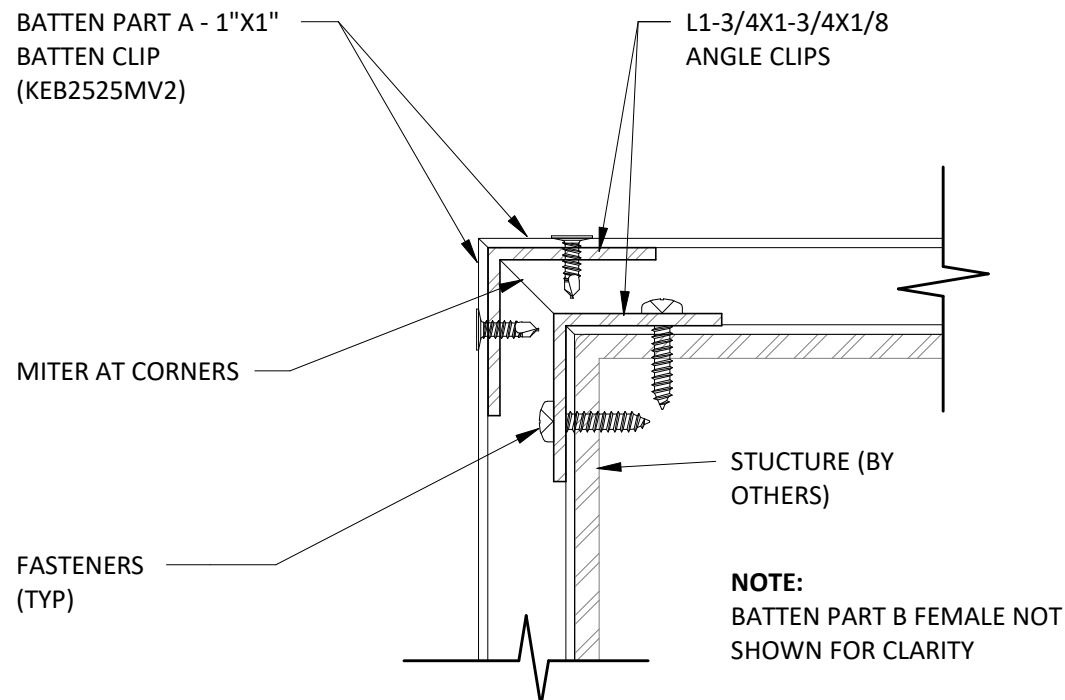
① TYPICAL BATTEN PART A (1"X1" CLIP) SLOTTED HOLE DETAIL  
6" = 1'-0"

NOTE:  
BATTEN PART B FEMALE NOT SHOWN FOR CLARITY



NOTE:  
GAPS AND SLOT LENGTHS ABOVE ARE BASED ON SINGLE  
FIXED POINT WITH 100 DEGREE TEMPERATURE CHANGE  
AND FULL LENGTH (18'-6") BATTEN. SLOTS AND GAPS  
MAY BE LINERALLY REDUCED BASED ON OVERALL PART  
LENGTH. I.E., A 9'-3" LONG BATTEN MAY HAVE SLOT AND  
GAP REDUCED BY 1/2.

② TYPICAL BATTEN PART A SLOTTED HOLE END CONNECTION DETAIL OPTIONS  
6" = 1'-0"



③ TYPICAL BATTEN CORNER SPLICE DETAIL  
6" = 1'-0"

PREPARED BY:



PREPARED FOR:



ISSUED FOR:

REFERENCE

ISSUED DATE:

03/17/20205

PLAN REVISIONS

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PROJECT NAME:

KNOTWOOD - 1 INCH BATTEN GENERIC  
DETAILS AND SPAN TABLES

PROJECT LOCATION:

N/A

DRAWING NAME:

MISC BATTEN CONNECTIONS

SEAL & SIGNATURE

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