1	(September 8, 2020)
2	Acceptable Manufacturers
3	The following manufacturers are known to have prequalified modular
4	expansion joint system details by successfully completing fatigue testing in
5	accordance with Section 6-02.3(13)C:
6	
7	The D.S. Brown Company
8	P.O. Box 158
9	300 E. Cherry Street
10	North Baltimore, Ohio 45872-0158
11	Tel. (419) 257-3561
12	Fax (419) 257-2200
13	www.dsbrown.com
14	
15	Watson Bowman ACME Corporation
16	95 Pineview Drive
17	Amherst, New York 14228-2166
18	Tel. (716) 691-7566
19	Fax (716) 691-9239
20	www.wbacorp.com
21	0 Marraha 1104 110
22	3. Mageba USA, LLC
23	575 Lexington Ave FI-4
24	New York, New York 10022-6146
25	Tel. (212) 644-3335
26 27	Fax (212) 644-3339 www.magebausa.com
28	www.magebausa.com
29	Design Axle Loads and Impact Factors
30	The vertical load range for fatigue design shall be a 32.0 kip tandem. This
31	tandem shall be taken as two 16.0 kip axles spaced four feet apart. Only one
32	of these tandem axles must be considered in the design, unless the joint
33	opening exceeds four feet. The load range shall be increased by the dynamic
34	load allowance (Impact Factor) of 75%. Load factors shall be applied in
35	accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design
36	Specifications, current edition and latest interims.
37	
38	The vertical load for strength design shall be a 50.0 kip tandem. This tandem

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The vertical load for strength design shall be a 50.0 kip tandem. This tandem shall be taken as two 25.0 kip axles spaced four feet apart. Only one of these tandem axles must be considered in the design, unless the joint opening exceeds four feet. This load shall be increased by the dynamic load allowance (Impact Factor) of 75%. Load factors shall be applied in accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and latest interims.

The horizontal load range for fatigue design shall be *** \$\$1\$\$ *** percent of the amplified vertical load range (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load range (LL+IM) specified above shall be added to this horizontal load range.

1 2 3 4 5	The horizontal load for strength design shall be 20 percent of the amplified vertical load (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load (LL+IM) specified above shall be added to this horizontal load.
7 8 9	Fatigue Testing Laboratory The following facilities are known to be capable of performing the fatigue testing specified in Section 6-02.3(13)C:
10 11 12 13 14 15 16 17	 Structural Engineering Testing Laboratory (SETL) University of Washington Seattle, WA SETL Director:
19 20 21 22 23 24	 Bowen Laborabory Purdue University West Lafayette, IN Director of Bowen Laboratory: Dr. Amit Varma: (765) 496-3419
25 26 27 28 29 30 31	 ATLSS Engineering Research Center Lehigh University Bethlehem, PA ATLSS Engineering Research Center Director: