

1 **(August 6, 2018)**

2 **Temporary Bridge**

3 The Contractor shall design, furnish, erect, maintain, and remove a temporary bridge,
4 including substructure, in accordance with this Special Provision and the details shown
5 in the Plans unless otherwise accepted by the Engineer.
6

7 **Geometric Requirements**

8 The temporary bridge shall conform to the following geometric requirements:
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- 10 1. The temporary bridge shall be an overall minimum length of *** \$1\$ ***.
- 11
- 12 2. The minimum width on the temporary bridge between barriers or railings
13 shall be *** \$2\$ ***.
- 14
- 15 3. The temporary bridge superstructure shall provide a minimum vertical
16 clearance of *** \$3\$ *** to *** \$4\$ ***.
- 17

18 **Design Requirements**

19 The temporary bridge shall conform to the following design requirements:
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- 21 1. The temporary bridge, including the barriers or railings, shall be designed
22 in accordance with the latest edition of the AASHTO LRFD Bridge Design
23 Specifications. Barriers or railings shall be designed to TL-2, minimum,
24 with a minimum height of 32-inches, except where the Plans require a
25 higher test level and railing height. Seismic design shall conform to
26 AASHTO LRFD Seismic Guide Specification Section 3.6.
27
- 28 2. The minimum vehicular live load used for design shall be 75 percent of
29 HL-93, unless otherwise specified in the Contract Plans.
30
- 31 3. The driving surface of the temporary bridge shall be durable, skid resistant
32 deck, with an initial skid number of at least 35 and maintaining a skid
33 number of 26 minimum, in accordance with AASHTO T 242.
34
- 35 4. Notwithstanding the requirements of Section 1-06.1, the materials used by
36 the Contractor to compose the temporary bridge may be salvaged steel,
37 provided that the use of such salvaged steel shall be subject to inspection
38 and approval by the Contractor's engineer of record and acceptance by
39 the Engineer. For salvaged steel materials where the grade of steel
40 cannot be positively identified, the design stresses for the steel shall
41 conform to Section 6-02.3(17)B3.
42
- 43 5. In addition to the criteria specified in Item 1, the temporary bridge
44 substructure shall be designed in accordance with the WSDOT
45 Geotechnical Design Manual (M46-03).
46

47 **Submittals**

48 The Contractor shall submit Type 3E Working Drawings of the temporary bridge
49 including an erection plan and procedure conforming to Section 6-03.3(7)A.
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51 If the temporary bridge is to be in place for greater than 90 calendar days, the
52 Contractor shall submit a Type 2E Working Drawing consisting of a load rating

1 report prepared in accordance with the AASHTO *Manual for Bridge Evaluation* and
2 WSDOT *Bridge Design Manual LRFD* M23-50 Chapter 13.

3
4 **Construction and Removal**

5 The Contractor shall construct the temporary bridge in accordance with the working
6 drawings and erection plan as accepted by the Engineer, environmental permit
7 conditions specified in Section 1-07.5 as supplemented in these Special Provisions
8 and as shown in the Plans, and in accordance with the details shown in the Plans.
9 The Contractor shall maintain the temporary bridge, including the driving surface,
10 for the life of the temporary bridge in this project.

11
12 All welding, repair welding, and welding inspection, of steel components of the
13 temporary bridge shall conform to the Section 6-03.3(25) and 6-03.3(25)A
14 requirements specified for steel bridges.

15
16 After the temporary bridge is no longer needed the Contractor shall remove the
17 temporary bridge.

18
19 **Payment**

20 Payment will be made in accordance with Section 1-09.3 for the following bid item:

21 "Temporary Bridge____", lump sum.
22