

1 **(April 7, 2008)**

2 **General**

3 This specification contains requirements for the use of machine control grading.

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5 Instead of providing grade control through construction stakes, the Contractor may  
6 control grade with equipment that is controlled by a machine control system.

7  
8 The Contractor may use any type of equipment and machine control system that  
9 produces results meeting the requirements of the Contract.

10  
11 Electronic data is provided for the Contractor's convenience, and is not a part of the  
12 Contract. No guarantee or warranty is made by the Contracting Agency that electronic  
13 data provided to the Contractor: is compatible with any of the systems that are used by  
14 the Contractor; is complete; is representative of actual conditions at the project site, or;  
15 accurately reflects the quantities and character of the actual Work required. The  
16 furnishing of electronic design data or documentation shall not relieve the Contractor  
17 from any risks or of any duty to make examinations and investigations as required by  
18 Section 1-02.4 or any other responsibility under the Contract or as required by law.  
19 Except as provided above, no corrections, additions, or updates of any kind will be  
20 made to electronic data provided to the Contractor.

21  
22 The Engineer may perform spot checks of the Contractor's machine control grading  
23 results, calculations, records, field procedures, and quality control measures. If the  
24 Engineer determines that the Work being performed is not achieving results that will  
25 meet the Contract requirements, the Contractor shall make corrections to the Work at  
26 no additional cost to the Contracting Agency.

27  
28 **WSDOT Responsibilities**

- 29 1. The Engineer will set the initial horizontal and vertical control points for the project  
30 as shown in the Contract documents.  
31  
32 2. The Engineer will provide additional datum and scale factor information upon  
33 request.  
34  
35 3. After execution of the Contract, the Engineer will make available upon written  
36 request the following electronic data used to design the project:

37 \*\*\* \$\$1\$\$ \*\*\*

38  
39  
40 Data may be obtained by furnishing a written request to the Project Engineer at the  
41 following address:

42 \*\*\* \$\$2\$\$ \*\*\*

43  
44  
45 **Contractor's Responsibilities**

- 46 1. The Contractor shall provide any information or data that is requested by the  
47 Contracting Agency for the purpose of performing the verification of quantities, and  
48 quality.  
49  
50 2. The Contractor shall be responsible for any edits or conversions of the Contracting  
51 Agencies electronic data whether done by the Contractor or a vendor that is hired  
52 by the Contractor to perform such edits or conversions.

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- 2
- 3 3. The Contractor shall be responsible for the accuracy and usability of any data or
- 4 model that is developed from the Contracting Agencies data.
- 5
- 6 4. The Contractor shall be responsible for checking and recalibrating Machine Control
- 7 Equipment as required to achieve results that meet the requirements of the
- 8 Contract.
- 9
- 10 5. The Contractor shall be responsible for establishing any additional control points
- 11 needed to achieve results that meet the requirements of the Contract.
- 12
- 13 6. The Contractor shall provide the Contracting Agency electronic as-built construction
- 14 data for the final Roadway surface model in a MicroStation format.
- 15
- 16 7. One week prior to the start of grading operations the Contractor shall meet with the
- 17 Engineer's staff to review the grading plans, quality processes, and tolerance
- 18 requirements.

19 ***Payment***

20 All costs associated with the use of machine control grading equipment are incidental to  
21 related items of Work, and no additional payment will be provided.