

Standard Special Provision 599S23 – RSS

| Comments received by TCP | | | |
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| Comment ID | Organization | Comment | Response |
| 238 | Individual | <p>Is fibre reinforced polymer internal reinforcement permitted for the reinforced concrete panels?</p> <p>The special provision only includes references for steel reinforcement, but there is a specification and DSM list for glass fibre reinforced polymer reinforcing bar (e.g., #9.65.90).</p> | <ul style="list-style-type: none"> - Use of GFRP can be proposed by the Contractor on a contract-basis, subject to approval by the ministry. |
| 243 | Reinforced Earth Company Ltd. | <p>Please see the following key points regarding our comments on the draft version of MTO SP599S23. Other various comments have been provided in the attachment. Thank-you.</p> <p>1) Air Void Systems - We believe the spacing factor for RSS wall panels should be 0.230mm maximum which is consistent with the requirements of OPSS 1350. RSS wall panels are vertical and not typically subjected to the aggressive environment of some other bridge/structural elements.</p> | <ul style="list-style-type: none"> - Specification of a maximum spacing factor of 0.200 mm is consistent with MTO specifications for other precast concrete elements. This is specified to ensure long-term durability in a saturated freeze-thaw environment. - Use of GFRP can be proposed by the Contractor on a contract-basis, subject to approval by the ministry. - Lot size is always confirmed by the Contract Administrator prior to fabrication. Maximum lot size is defined as 500 m², and also depends on a number of other factors, including total quantity of RSS. |

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| | | <p>2) GFRP Reinforcement - As outlined in the MTO Structural manual, GFRP reinforcement for RSS panels is approved. We believe a section should be added to this specification with the requirements.</p> <p>3) Lot Size - The number of Lots for fabrication affects the pricing for the supply of the RSS wall. We believe the lot size should be fixed at 500m² maximum. - Lot size should be determined at time of tender:</p> <p><i>The lot size shall represent all precast elements from one structure, from a single RSS supplier, with a lot size of 500 m² of vertical face of the RSS. The lot size shall be confirmed by the Contract Administrator and remain consistent for the duration of the Contract.</i></p> <p>Additional comments in attached document:</p> <ul style="list-style-type: none"> - <i>A MTO Form PH-CC-701, Request to Proceed shall be submitted to the Contract Administrator by Contractor before the delivery of each shipment of elements to the site.</i> | <ul style="list-style-type: none"> - Standard language used in specifications does not require addition of “by the Contractor” for any specified requirements. All requirements in the specification form part of the contract with the contractor. - What is meant by “loading”, is loading onto and off of the delivery truck. |
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| | | <p>- <i>Delivery shall include transportation, loading and unloading, and storage of the elements at the storage site. Transportation and storage of the elements shall be according to CSA A23.4. <u>RECO comment</u>: Loading can be completed well in advance and staged.</i></p> | |
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