

INVITATION TO TENDER "ITT" NO. PS10166

GRANDVIEW (1<sup>ST</sup> AVENUE) VIADUCT REHABILITATION

QUESTIONS AND ANSWERS No. 2

ISSUED ON FRIDAY SEPTEMBER 10, 2010

Q1	SP1 and SSPC SP2/3 are specified as surface preparation. However, there is no degree of preparation specified for the SP2/3. Is it to be a spot repair only to corroded/damaged areas, or a complete removal of existing coating?
A1	<b>Full surface cleaning and painting removal is required; special attention to corroded and damaged area that heavier layers of rust shall be removed by chipping before any of the other cleaning tools are used.</b>
Q2	Carbomastic 615 HS Black is specified. This particular coating is only available in one colour, tan. Is Carboguard 690 and acceptable alternate?
A2	<b>Carboguard 690 can be acceptable alternate.</b>
Q3	Item 1.7.1 states "The Owner's Geotechnical Engineer shall be responsible for the mini-pile design...". Item 1.10.5 states that "The Contractor's Geotechnical Engineer will monitor the installation and acceptance testing of all mini-piles...". Please clarify what geotechnical engineering will be required to be retained by the mini-pile contractor (Design, Design Drawings, Inspection, Shop Drawings) as well as their design responsibilities, as these two items seem to conflict.
A3	<b>Golder Geotechnical is the sub-consultant to AECOM and they are responsible to all related work of foundation design.</b>
Q4	The mini-pile specification section 02100 - 1.7 indicates that the design of the mini-piles is the Owner's geotechnical engineer's responsibility as they have laid out the requirements (ie: bond length, hole diameter etc...). Section 1.9 indicates that the contractor is to engage an engineer for the design and installation of all mini-piles. Typically if this is to be a "performance specification", the contractor's geotechnical engineer is paid for the overall design & signing off on the anchors including all testing verification based on achieving the given load requirements and is given the "freedom" of specifying the anchor lengths, hole diameter etc...). If the owner's geotech is to be responsible for the signing off on this aspect of work, why does the contractor require a geotech; it seems somewhat redundant. Please clarify which way this portion of work is to proceed (ie: design by owner or design by contractor) and who will be signing off on the schedule B1/B2 & letter of assurance for these mini-piles.
A4	<b>Golder Geotechnical is responsible to the mini-pile design.</b>
Q5	The "test" mini-pile location is to be indicated on the drawings as per section 3.3 of the specification. We can not find this mini-pile location on the drawings; please clarify.
A5	<b>The test pile shall be determined by Geotechnical Engineer at site. Most likely will at the centre of the second row of pile group.</b>

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Q6	Can the "test" mini-pile be a production pile?
A6	Yes.
Q7	With reference to drawing S-04 typical minipiles are shown to be 12.850 in length. The table on S-03 and accompanying drawing show the minipiles to be 30.405 (elevation of base of pier cap) - 14.700 (minipile tip elevation) + 0.600 (embedment into pier cap) = 16.305m long. Please confirm the correct measurement.
A7	The total length of Dywidag threadbar shall be 16.48m including 175mm bar extension above the steel anchor plate.