

September 18, 2015

Invitation For Bid

Bridge Yard (IERBYS) Seismic and Renovation Project

Dated August 28, 2015 as Amended by Addendum No. 1 on
September 11, 2015 and Addendum No. 2 on September 18, 2015

Questions Received for Clarifications/Exceptions

Questions & Answers #2

Q1	Ref. S102; The Rivet Removal / Replacement Construction Sequence requires replacing one (1) rivet at connection at a time. We assume a maximum (1) rivet at each <u>member</u> at each connection may be removed at a time. Please confirm this is correct.
A1	<i>No. Sequence #2 states that only one (1) rivet may be replaced per connection. Generally, these connections are gusset plates that connect multiple members, ranging from 2 to 5 members per connection.</i>
Q2	Ref. B&C/S326; Field observations reveal that the distance between the flanges of the existing 10WF37 columns varies at least from 8-3/4" to 9-1/4". This distance also varies along the length of each column. If full bearing between the interior side plates and the existing column flanges is required as shown, the new flange plates, web plates and stiffeners must be entirely field welded in place rather than shop welded as shown. This would significantly increase the cost of the project. In this case, the existing column web would need to be used as back-up for the complete penetration welds. In lieu of field assembling and welding of the plates in place, may we shop fabricate the plates into brackets of a typical width and utilize finger shims on each side to accommodate the variations in column depth? Please advise.
A2	<i>The variation in dimension along the length of each rolled WF member is not expected to be significant. However, some variation from column to column is expected. Field welding of the new web and flange plates is not allowed. Fabrication of the component plates shall be specific to each column based on field measurements (as noted on the plans); however minor shimming is acceptable for proper fitting.</i>
Q3	Ref. A/S324; The bolt spacing is stated at 21 SPA @ 6" = 16'-0". Either the number of spaces or the total length is not correct. Please advise.
A3	<i>Yes, the labeling of the spacing is inconsistent. It should state 22 @ 6" = 11'-0".</i>
Q4	Ref. C/S333; Please confirm new threaded anchor rods are only required at the concrete pedestal enlargement locations (total 16 columns).
A4	<i>Yes, as specified on S301 the new anchors rods are only required at the 16 pedestals, for a total of 32 rods.</i>

Q5	Section 99-051200 Structural Steel, Part1.6.B states tests and inspections shall be the responsibility of the Owner. We assume the Owner will also provide tests and inspections for Section 99-051205 Structural Steel for Building – Seismic Retrofit. Please confirm.
A5	<i>The assumption is correct. However, the Contractor is still obligated to perform the QC test and inspections for the steel fabrication.</i>
Q6	Ref. S402; What is the profile and gauge of the 2” metal deck at the ramp?
A6	<i>The gauge and profile are indicated on S401 item F1.</i>
Q7	Ref. Section 99-051205 Structural Steel – Seismic Retrofit; Specification section 99-099005 is referenced throughout for painting of structural steel. There is no section 99-099005 included in the specifications. Please advise.
A7	<i>Section 99-099005 is included in the specs, following section 99-099600.</i>
Q8	Column strengthening outboard face at existing transite: S303 shows the extent of column strengthening which includes installing plates and bolts on the faces at Line B and C. The architectural drawings indicate that the transite panels beyond these column faces are to remain and coated. Please clarify the intention for the transite panels at the retrofitted columns (i.e. is the transite to be removed and reinstalled, is the transite to be removed and replaced with metal siding)? Secondly, what happens where bolt heads or nuts conflict with the bottom flute of the siding?
A8	<i>The plating of the exterior column flanges is only applicable to the interior face (i.e., facing towards the inside of the building). There is sufficient space between the exterior surface of the exterior flange and the siding panels for nut installation.</i>
Q9	Corridor 1 and 2 at Column strengthening: S303 shows column face retrofitting at Line B; however the wall finish and ceilings are shown to remain at Corridor 1 and 2. How are the bolts and plates installed at this location without the finishes and ceiling being removed?
A9	<i>While there is a ceiling in the low bay (Corridors 1 and 2), the column flanges are accessible for plate installation (interior faces of the outer flanges) and bolting as is the case for Column line C.</i>
Q10	We are working towards a bid on this project’s window film scope but haven’t yet seen the architect publish a film spec – have you seen it? We can find only a “seismic film” and others (W1, W2, and W3) but no specification regarding which film.
A10	<i>Information pertaining to window films are provided in Specifications Section 99-088000, and films W1, W2, and W3 are identified in Section 2.2.B.1. Refer to drawings A300s and A400s and Renovation Key Notes #43, 44, and 45 for scope of work related to the films.</i>

Q11	Addendum No. 1 adds SBE requirements and bid preferences into the project. In order to allow Contractors to review these changes, could the bid date be extended by one week?
A11	<i>See Addendum #2 for due date extension.</i>
Q12	Reference is made to Special Conditions Section item 2.1.5 - Insurance. Please confirm who is to provide the Builder's Risk Insurance coverage for this project.
A12	<i>See Addendum #2.</i>
Q13	Please confirm Specification Section 051205 3.3 E does not allow for thermal removal of rivets.
A13	<i>Yes, this statement is correct.</i>
Q14	Please confirm that A325 TC Bolts conform with the requirements of Specification Section 051205 3.3.
A14	<i>Yes, tension control type of bolts A325 TC are acceptable.</i>
Q15	Please confirm that faying of bolted surfaces may be accomplished with use of power tools.
A15	<i>Yes, the use of mechanical power tools for surface preparation are acceptable.</i>
Q16	Would it be allowable to press rivets out if necessary?
A16	<i>It is acceptable to press rivets out provided that none of the connection plates and connecting members are structurally damaged.</i>
Q17	Plan S102 Details 1-10 on sheet S102 have black arrows indicating particular rivets in a connection. Is the rivet replacement limited to these rivets or do all the rivets in each connection need to be replaced unless otherwise noted?
A17	<i>All rivets are to be replaced unless noted otherwise, as stated in Note 4 of S102.</i>
Q18	Please confirm that rivet removal is required on all 36 columns along gridlines C & B where the bottom chord of the trusses connects to the column as shown A&B/S102.
A18	<i>Yes, that is correct.</i>
Q19	Please confirm that rivet removal is required on all 36 columns along gridlines C & B where the top chord of the trusses connects to the column A&B/S102.
A19	<i>Yes, that is correct.</i>
Q20	Please confirm that rivet removal is required on all beams along gridlines C&B spanning from column to column as shown A&B/S102.
A20	<i>Yes, that is correct.</i>
Q21	Please confirm that column strengthening is required on all 36 columns along gridlines C & B per S303.
A21	<i>Yes, except for the bottom reinforcement of the column webs in the non-braced bays, as noted in Detail 10 of S325.</i>

Q22	Will the Existing floor and cover plates support aerial equipment? If so what is the load limitations on the floor
A22	<i>The Contractor shall determine the equipment type, weight, location, and operational loading characteristics needed for the job and submit them for review and approval by the Engineer.</i>
Q23	Please confirm temporary shoring is not required due to the job requirement of removing one bolt at a time.
A23	<i>Yes, that is correct.</i>
Q24	Are the rivets connecting the wall framing along gridlines B&C shared between the beams on either side of the columns along that gridline per A&B/S102.
A24	<i>Yes, that is correct.</i>
Q25	It appears that the beams connecting the columns are connected with riveted angle clips. Are there rivets connecting the angles through the beams? Do these rivets need to be removed?
A25	<i>Yes, the beams are connected to the column webs through angle clips. The angles are welded to the beam webs, and the rivets connect the beams on either side of the column web by rivets through the web. The rivets need to be replaced, as indicated in Section B of S102.</i>
Q26	The Revits connecting the beams connecting column to column along gridlines C&B per A&B/S102 are within the flanges of the existing beam and also bounded by the flanges of the existing columns. Getting a pneumatic chisel in this area to remove the rivet head will be very difficult. In these areas where access is extremely limited would it be permissible to use thermal methods to remove the rivet?
A26	<i>No, thermal methods for rivet removal are not acceptable.</i>
Q27	Please provide the specifications for the 1938 construction.
A27	<i>There is no additional information relative to the 1938 construction project other than what is available on the website.</i>
Q28	Bolting the outside flanges of the structure will necessitate the removal of the exterior sheeting on all columns. What is the procedure for removing and replacing the sheeting in these areas?
A28	<i>The exterior faces of the outside flanges will not be plated. There is sufficient space between the exterior surface and siding for placement of the nuts.</i>
Q29	If a Prime general contractor is a certified SBE, can they use certified SBE subcontractors to jointly reach the 40% participation goal? For example, can a certified SBE Prime perform 25% of the work with their own forces and then obtain the balance of the required 15% participation with SBE subcontractors to reach the total 40% SBE requirement to obtain the bid preference?

A29	<p><i>No, the SBE Bid Preference will only allow the preference as follows:</i></p> <ul style="list-style-type: none"><li data-bbox="342 233 1414 338">▪ <i>A discount of five percent (5%) to the total amount bid, when the bidder meeting specifications is a certified SBE and is performing at least forty percent (40%) of the work, or</i><li data-bbox="342 348 1414 453">▪ <i>A discount of five percent (5%) to the total amount bid, when the bidder is a non-SBE Prime Contractor that commits to subcontract with SBE firms for at least forty percent (40%) of the work in its bid submittal.</i>
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