

December 3, 2024

RFB 24-4542 – S-160 CATHODIC PROTECTION AND CONCRETE REPAIR

ADDENDUM #3
(Acknowledgment is Required)

The Respondent shall acknowledge its review and receipt of this Addendum by signing below and including a signed copy of this Addendum with its bid submittal. Failure to do so could result in disqualification of the bid.

Please note that double underlined information (example) is added wording and stricken information (~~example~~) is deleted wording.

I. CLARIFICATIONS:

1. Please note, Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, Revision Date of 06/28/2024 has been replaced in its entirety with Figure 1 – Design Drawings, Plan Sheet S-4, GENERAL NOTES, Revision Date of 11/25/2024.
2. Please note, Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-12, BULK ZINC ANODE DETAILS (2 OF 2), Revision Date of 011/08/2024 has been replaced in its entirety with Figure 1 – Design Drawings, Plan Sheet S-12, BULK ZINC ANODE DETAILS (2 OF 2), Revision Date of 11/18/2024.
3. Please note, Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-15, JOINT REPAIR DETAILS, Revision Date of 06/28/2024 has been replaced in its entirety with Figure 1 – Design Drawings, Plan Sheet S-15, JOINT REPAIR DETAILS, Revision Date of 12/02/2024.
4. Please note, Figure 2 – S-160 Cathodic Protection - Technical Special Provisions, SECTION T402, SUBMERGED BULK ANODES GALVANIC SYSTEM FOR CORROSION PROTECTION, Date of September 5, 2024, has been replaced in its entirety with Technical Special Provisions, SECTION T402, Date of November 25, 2024.
5. Please note, the vertical joint seals (ATTACHMENT 1, BID RESPONSE FORM, Pay Item# 10 Allowance for Remove and Replace Vertical Joint Seals for Pier 2, 4, and Wingwalls) will only be replaced above the low water level elevation.

II. QUESTIONS AND ANSWERS:

1. **Question:** **We have the following RFI after review of the recent revision to the S-160 drawings:**

On Sheets S-11 and S-12, there appear to be 6 anchors per bulk anode bracket shown in the drawings (plus 6 more alternative mounting locations). However, Note #2 on S-12 states a minimum of 4 mechanical anchors are to be used. Should bidders assume 4 anchors per channel, or 6?

Answer: Please refer to Clarification 2 of this Addendum. A minimum of six anchors will be required to be utilized.

2. **Question:** **Could you please clarify if any of the spall/crack repair is required below the waterline on the downstream side of the needle beams?**

Answer: Concrete repair work below the low tide elevation is only anticipated if a crack or a spall identified above the water during the walkthrough inspections extends below the low tide elevation. In that case, some minor work below the low tide elevation may be necessary to properly complete the above water repair. Some spalls and crack repairs are also expected on the downstream side of the needle beam slots.

3. **Question:** **Regarding the steel coating note on sheet s-4, Please clarify if this is to be completed on the full length of the corner protection steel angle or just above the waterline? Also if it is required the full length how are we to dewater the area because the needle beams when installed will cover the steel and can not be blast cleaned.**

Answer: Please refer to Clarification 1 of this Addendum. Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, STEEL COATING, Note 1, has been modified as follows:

1. Blast clean and re-coat the galvanized recess corner protection angles on the outflow side of the structure starting at the low tide elevation extending upward for ten feet or as directed by the Engineer. Remove all visible corrosion from the angle pieces and re-coat as per ASTM A780 and the product manufacturer recommendations. Use an approved inorganic zinc product for re-coating galvanized surfaces.

Note, no deficiencies below that elevation have been identified.

Please refer to RFB Section 3.5, **DEWATERING**. The District does not require dewatering operations for this Project.

4. **Question:** **Regarding the hazardous heavy metals, to account for this, we will need to be provided all inspections reports and testing results showing the types of hazardous materials in place and their locations.**

Answer: Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, HAZARDOUS HEAVY METALS:

1. Coatings containing hazardous heavy metals are “suspected” to be present on hand railing and fencing.

However, no work is specified or anticipated on the handrails and fence. The note is included as general information in the event that the Contractor propose to alter any of these as part of the Contractor’s Work Plan (removal to move materials or equipment, etc.).

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5. **Question:** **Could you please provide a photo & plan sheets showing how your needle beams are to be installed as well as their length and weight?**

Answer: Please refer to Clarification 1 of this Addendum. Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, CATHODIC PROTECTION, Note 1, has been modified as follows:

1. Installation of horizontal and vertical anodes will require work in the water and in strict coordination with the site tides. ~~As an option to facilitate the installation, the Contractor can request use of Water Stop Logs available from the SWFWMD to partially de-water the individual areas of work. The Contractor would be responsible for the installation, and obtaining and returning the Water Stop Logs to the SWFWMD storage location. Some repair or modification by the Contractor may be necessary to make the Water Stop Logs function properly.~~ As an option, the Contractor can dewater the area of work. Dewatering will be limited to no more than two bays at any time. The dewatering system selected shall be suited for fast removal in the event that the gates need to be opened due to special circumstances as determined by the District.

Please refer to the RFB Section 3.5, **DEWATERING**. The District does not require dewatering operations for this Project. The Contractor shall submit its proposed dewatering design, signed and sealed by a Florida licensed engineer and is responsible for furnishing, installation, and removal of all dewatering systems if the Contractor chooses to dewater.

6. **Question:** **Bulk Anode Mounting Channels - Number of extra holes: Drawing Details on sheet S-11 show (6) extra holes per channel. Technical SPECT402-2.2 wants (4) extra holes. Please clarify how many extra holes are desired per mounting channel.**

Answer: Please refer to Clarification 4 of this Addendum. Figure 2 – S-160 Cathodic Protection - Technical Special Provisions, SECTION T402, SUBMERGED BULK ANODES GALVANIC SYSTEM FOR CORROSION PROTECTION, Subsection T402-2 Materials, Specification **T402-2.2 Mounting Channel** has been modified as follows: Provide ~~four~~ six additional holes to the channel for use if conflict between an anchor and the reinforcement.

7. **Question:** **Repair Sequence: Please confirm if contractors are prohibited from working on more than (2) bays within the water at a time.**

Answer: Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, EXISTING STRUCTURE CONSTRUCTION CONSIDERATION, Note 4:

4. The structure is to remain operable at all times during the project. Perform work in no more than two bays at a time and coordinate with the District the times and locations of "lock outs".

8. **Question:** **Pay Item #3 – Cathodic Protection Six-Foot-Long Embedded Zinc Anodes: May contractors substitute (2) 3' long similar Galvashield DAS X anodes, complying with the cross section and minimum mass specified, in place of a single 6'-6" long anode noted in the Technical Specs, Section T400-2.1?**

Answer: Please refer to the Figure 2 – S-160 Cathodic Protection - Technical Special Provisions, SECTION T400, DISTRIBUTED DISCRETE GALVANIC ANODE SYSTEM FOR CORROSION PROTECTIONS, Subsection T400-2 Materials, Specification **T400-2.1 Distributed Anode System**. Yes, adjustment to length of anodes based on needs will be considered.

9. **Question:** **Pay Item #6 - Apply Penetrating Sealer: There appears to be an existing coating on concrete surfaces intended for sealer application. Are contractors expected to remove this coating prior to sealer application? And should this cost for removal be included in Pay Item #6?**

Answer: Yes, the removal of existing coating is required.

Please refer to Figure 1 - S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, CONCRETE SEALING, Note 7, which has been modified as follows:

7. Shot blast to remove existing coating on top and sides of service bridge and columns. Apply the acrylic-epoxy coating following the application of the penetrant sealer to the top and sides of service bridge and columns. Apply the material as per manufacturer recommendations.

Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-5, PLAN, **SCOPE OF WORK LEGEND**, Item 5:

5. Seal Concrete Surface with Penetrant Sealer (All Sides). Apply acrylic-epoxy coating over the sealer on top and sides of the service bridge and on sides of columns up to the elevation of existing coating.

Removal of existing coating is included in the RFB, Attachment 1, Bid Response Form, Pay Item #7:

7	Apply UV Resistant Sealer Deck Surface and Sides (Includes removal of existing sealant, materials, cleaning, application, and incidentals.)
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10. Question: Pay Item #11 - Coat Structural Steel: Drawings indicate this steel will have section lengths submerged at low tide. We did not find an approved inorganic Zinc product for re-coating galvanized surfaces on the FDOT APL. How would the Water Management District intend for Contractors to proceed?

Answer: Please refer to Clarification 1 of this Addendum. Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, MATERIALS, Note 10, which has been modified as follows:

10. Inorganic Zinc Coating: Use FDOT-APL approved self curing inorganic zinc primer with a minimum of 77% zinc dust and a maximum lead level of 0.01% ~~for re-coating galvanized steel surfaces.~~

Structural steel coating will be done above low water level elevation only. The Florida Department of Transportation (FDOT) Approved Product List (APL) does not specify specific approvals of Inorganic Zincs uses.

11. Question: Pay Item #7 - Apply UV Resistant Sealer Deck Surface & Sides: Should contractors understand the we are intended to remove sealant (caulking) and concrete coatings, if present, from these surfaces as part of this work scope?

Answer: Yes, the removal of existing coating is required.

Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-4, GENERAL NOTES, CONCRETE SEALING, Note 7:

7. Shot blast to remove existing coating on top and sides of service bridge and columns. Apply the acrylic-epoxy coating following the application of the penetrant sealer to the top and sides of service bridge and columns. Apply the material as per manufacturer recommendations.

Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-5, PLAN, **SCOPE OF WORK LEGEND**, Item 5:

5. Seal Concrete Surface with Penetrant Sealer (All Sides). Apply acrylic-epoxy coating over the sealer on top and sides of the service bridge and on sides of columns up to the elevation of existing coating.

12. Question: Pay Item #7 - Apply UV Resistant Sealer Deck Surface & Sides: Our understanding as that this applies only to the main structural roadway deck and not the elevated operating platform. Please confirm.

Answer: Pay Item #7 applies to the Service Bridge and Columns and does not apply to the Operating Platform.

Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-5, PLAN, **SCOPE OF WORK LEGEND**, Item 5:

5. Seal Concrete Surface with Penetrant Sealer (All Sides). Apply acrylic-epoxy coating over the sealer on top and sides of the service bridge and on sides of columns up to the elevation of existing coating.

13. Question: Pay Item #10 - Vertical Joint Sealant R&R: Project Drawing S-15, Note 3 states "Payment for vertical joint seal replacement will be made at the same rate as for the service bridge horizontal deck joint seal replacement." Can you clarify the District's meaning with this statement? Are contractors expected to submit the same unit price for Pay Items #9 & #10 on the bid form?

Answer: Please refer to Clarification 3 of this Addendum. Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-15, JOINT REPAIR DETAILS, Note 3, has been modified as follows:

3. Inspect the inflow and outflow sides vertical contraction joint seals on both sides of Piers 2, 4 and between Abutments and Wingwalls, and replace as necessary. ~~Payment for vertical joint seal replacement will be made at the same rate as for the service bridge horizontal deck joint seal replacement.~~

The RFB, Attachment 1, Bid Response Form, Pay Item #9 is for the horizontal and vertical joint seals on the service bridge.

The RFB, Attachment 1, Bid Response Form, Pay Item #10 is for vertical seals on the piers and wingwalls.

14. Question: Vertical Joint Sealant R&R - Inspection: Project Drawing S-15 directs contractors to perform an inspection of the inflow and outflow sides of the vertical expansion joint seals. Does the District want inspection of the joints below the water line as well?

Answer: Please refer to Clarification 5 of this Addendum. The vertical joint seals (ATTACHMENT 1, BID RESPONSE FORM, Pay Item# 10 Allowance for Remove and Replace Vertical Joint Seals for Pier 2, 4, and Wingwalls) will only be replaced above the low water level elevation.

15. Question: Vertical Joint Sealant R&R: Project Drawing S-15 calls for FDOT Type "D" silicone, self-levelling, in the typical joint detail. For vertical joints may we utilize a Type "A" silicone, or other product for this application?

Answer: Please refer to Figure 1 – S-160 Cathodic Protection - Design Plans, Sheet S-15, JOINT REPAIR DETAILS, TYPICAL SECTION THROUGH JOINT. This requirement is for the bridge deck only.

Other types of joint seal material may be considered for other locations based on manufacturer's data sheets and recommendations.

16. Question: Could you please provide clarification if the contractor is going to be required to hire a railroad flagger to cross the rail road tracks and access the property?

Answer: Please refer to Figure 3 – S-160 Cathodic Protection - Division 1 Technical Specifications, Section 01735, Control of Work, PART 1 – GENERAL, Subsection 1.01 – SCOPE OF WORK, Paragraph D. MAINTENANCE OF TRAFFIC, Subparagraph 2: "Maintenance of traffic shall be in accordance with Florida Department of Transportation (FDOT)."

17. Question: Are there any weight restrictions for crossing over the railroad tracks?

Answer: Please refer to Figure 3 – S-160 Cathodic Protection - Division 1 Technical Specifications, Section 01010, Summary of Work, PART 1 – GENERAL, Subsection 1.08, WORK SEQUENCE COORDINATION ACTIVITIES AND SCHEDULED DATES, Paragraph A:

“General: The Contractor shall coordinate their Work with other adjacent contractors, landowners, and District activities, with specific attention to access and staging areas.”

The Contractor is required to coordinate with the railroad track landowner.

Per the Hillsborough County Property Appraiser website, the railroad tracks are on Parcel U-28-29-21-ZZZ-000004-13690.0 owned by CSX Transportation Inc.

18. Question: How are we to replace the vertical joint seals for pier 2,4, and wingwalls full length if they are below the water line and dewatering of the entire structure is not required?

Answer: Please refer to Clarification 5 of this Addendum. The vertical joint seals (ATTACHMENT 1, BID RESPONSE FORM, Pay Item# 10 Allowance for Remove and Replace Vertical Joint Seals for Pier 2, 4, and Wingwalls) will only be replaced above the low water level elevation.

III. ATTACHMENTS:

1. Figure 1 - S-160 Cathodic Protection - Design Plans – Revision 12-02-2024 (Exempt)

Figure 1 - S-160 Cathodic Protection - Design Plans – Revision 12-02-2024 (Exempt) will be transmitted to those that have successfully submitted the Exempt Documents Distribution Agreement form and received the exempt documents prior to the issuance of Addendum 3.

2. Figure 2 - S-160 Cathodic Protection - Technical Special Provisions - Revision 12-02-2024 (Exempt)

Figure 2 - S-160 Cathodic Protection - Technical Special Provisions - Revision 12-02-2024 (Exempt) will be transmitted to those that have successfully submitted the Exempt Documents Distribution Agreement form and received the exempt documents prior to the issuance of Addendum 3.

Ari Horowitz
Procurement Specialist
cc: Project Manager

ACKNOWLEDGEMENT OF ADDENDUM #3

BY: _____
DATE

(TYPE/PRINT NAME AND TITLE)

COMPANY NAME