March 3, 2017

Addendum No. 1

North Branch Riverwalk: Underbridge Connection at Addison Street from Clark Park to California Park
CDOT Project No. E-9-121
Specification No. 133860

For which proposals will be opened in the office of the Department of Procurement Services, Room 103, City Hall, 121 North LaSalle Street, Chicago, Illinois 60602, on March 8, 2017 at 11:00 a.m., Central Time

BIDDER WILL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE PROPOSAL PAGE

I. The Bid Opening Date has been postponed from March 8, 2017 until March 17, 2017 at 11:00 a.m., Central Time.

II. Questions and Answers

Q1: Refer to sheet S-65. Indicate the design capacity of the tiebacks.

A1: The design force is listed on drawing S-65 in line with each anchor. The ultimate load on a 1 ½" anchor provided must exceed that by capacity with a factor of safety of 1.5. Four material types are listed under project specific 'Detailed Specifications' for selection.

Q2: Refer to sheet S-62. Please provide a reference for "Minimum effective Permanent Sheet Piling section modulus". Provide a table which reduces the Sx for various sheet pile sections.

A2: The elastic section modulus listed on S-62 is required by design. See Article 522.06 of the current IDOT Standard Specifications.

Q3: Please clarify pay item X0326935 CROSSHOLE SONIC LOGGING. If Caissons are to be poured with the shaft open, in the dry, will this test still be required?

A3: Yes, per project specific 'Detailed Specifications'.

Q4: Please provide the voltage in the existing overhead high voltage power lines.

A4: 138KV

Q5: Please provide the height of the existing power lines on sheet C-13, C-14, C-15 and C-16.

A5: Estimated at 35’ to 40’ CCD

Q6: Can the tip of the Permanent Ground Anchor extend beyond the project right-of-way?

A6: No

Q7: Will any of the overhead power lines, adjacent to California Park and parallel to the river, be relocated?

A7: No

Q8: Please confirm that the following items ARE NOT provided by Item 102: LED light fixtures, light fixture mounting brackets, LED drivers, electrical/junction boxes, wiring and final electrical connections.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A8: Confirmed. Item 102 does not pay for the electrical items listed. Those items have their own pay items.

Q9: Within the special provision under Fabrication and Erection, it lists Post Fabrication which calls for blasting all sections and surfaces. Please confirm which SSPC designation is required for blasting (sheet attached for your reference)

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A9: This paragraph refers to the process for weathering the steel. It will be acceptable for the metal fabricator to certify the steel meets AASHTO M270-50W for weathering steel.

Q10: Within the special provision under Fabrication and Erection, it lists Pre-Weathered (Post Blasting). Please explain what beginning the pagination process means and exactly what the metal fabricator is expected to do with the self-weathering steel product.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A10: This paragraph refers to the process for weathering the steel. It will be acceptable for the metal fabricator to certify the steel meets AASHTO M270-50W for weathering steel.

Q11: Please confirm that the weathering steel material does not have any additional coating or finish applied to it

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A11: There shall be no additional coating or finish applied to the weathering steel.

Q12: The special provision does not list any testing requirements; please confirm that this pedestrian railing does not require any testing to be performed.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A12: Testing requirements are within the applicable codes referenced within the contract documents.

Q13: On sheet A-2 there is reference to a stiffener plate but no call out of what it is. Please confirm the dimensions (length, width) and the thickness of this plate and please also confirm how many feet on center these are required at.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A13: Sheet A-1 shows the ½" stiffener plate on Details 5 and 8. It is welded to the sides of the angles at each anchor bolt location.

Q14: Please confirm which bid item is responsible for providing the 5" x 24" x 5/32" polycarbonate prismatic cover for the light fixtures.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A14: The prismatic cover should be paid for under Item 102 - Bicycle Railing, Special.

Q15: Please confirm how the 5" x 24" x 5/32" polycarbonate prismatic covers are attached to the steel framework.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A15: The prismatic covers should be attached to the steel using manufacturer's recommended fasteners.

Q16: Please confirm if the exposed fasteners are to be painted to match RAL 8002 in lieu of RAL 802. From our research, RAL 802 does not show up as a close match to "rusty" looking steel.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A16: The color should be RAL 8002.

Q17: More information is needed about the anchor bolts and the anchor plates for the bolts. Please provide the diameter and embedment on the anchor bolts, the type of anchor bolt that is to be used (i.e. hex bolt), the grade and specification of the anchor bolts, nuts and washers, the dimensions (length, width) and thickness of the anchor plates and the size of the hole required in the anchor plates.

Question refers to Item 102 – X5091725 –Bicycle Railing, Special

A17: Information requested can be found on Sheet S-24 – Railing Anchorage Details. Use ¾" diameter hole in anchor plate.

Q18: Pay Item 80: Are any other manufacturers for this pay item approved for this project? Will alternates be accepted? If yes, please provide a list of approved manufacturers.

A18: No. Alternatives will not be accepted.

Q19: Pay Item 81: Are any other manufacturers for this pay item approved for this project? Will alternates be accepted? If yes, please provide a list of approved manufacturers.

A19: The specification requires a specific manufacturer and model number, which is no longer available on the market. The Chicago Park District has two new approved luminaires to replace it. The approved model numbers are: Leotek Model: GC1-60E-MV-NW- type **–GY–BSK- Shorting cap for photocell receptacle and Schréder Model: SMART2-US-24L081-NW-type **-SV-GY-AB-SC. **The contractor shall coordinate with Chicago Park District for the light distribution optic.

Q20: Pay Item 86: Please provide a single line diagram of the proposed power panel modifications.

A20: This will be coordinated during construction.

Q21: Pay Item 87: Please provide a single line diagram of the proposed lighting controller modifications.

A21: This will be coordinated during construction.

Q22: Pay Item 124: Please provide a list and contact information of approved LED Navigation Light Fixture Manufacturers.

A22: The Coast Guard does not have a list of approved manufacturers for navigation lighting.

Q23: Are permit fees required for work in the Chicago Park District? If so, please specify the amount the contractor is to carry in their bid.

A23: Permits are required; fees will be waived.

Q24: For the Railing Anchorage Assemblies shown on sheet S-24. Will either a CIP U-Bolt or threaded rod anchor assembly be an acceptable alternate to the drilled & tapped rod anchor assembly? Please note that the installation of the proposed anchorage assemblies will have to be installed with no tolerance due to the machine bolts having to be inserted in a vertical manner, if the assemblies are set a degree or more off or if they shift during concrete pour or curing it will create many issues when installing the pedestrian railing.

A24: Alternative connection methods, such as drilling and setting anchor rods, will be evaluated during construction provided calculations are submitted by a Structural Engineer licensed in Illinois to support an alternative connection method. The holes in the base plates are oversized to allow for small variances during construction.

Q25: Sheets S-40 through S-47. Railing sections S34 to S40 are all shown with a radius in the top view but flat in the elevation. Please confirm that all railing sections (S0 to S40) will be fabricated with a flat profile as shown in the railing details or will they need to follow the profile

grade & horizontal curve shown on S-03, which will require helical rolling for the continuous plates?

A25: The railing is fabricated in approximately 6’ sections which will allow each section to follow the profile with no bending required in the vertical direction.

Q26: Sheets S-45 through S-47 railing sections S34 to S40 are all shown with a PL1" x 8". On Sheet A-1 & A-2 this plate is called out as a 3/4" continuous toe plate. Confirm if this plate is to be 1" x 8" or 3/4" x 11" or if there are actually 2 different plates all together.

A26: The 1” x 8” should read ¾” x 11” for Railing Panel Type S34 to S40.

Q27: Based on Book 3 - Detailed Specifications, page I-3, drilled shaft in soil should conform to IDOT Standard Specifications for Road and Bridge Construction adopted April 1, 2016 section 516. Based on that specification concrete for drilled shaft should be conform with DS type of mix specifications of Section 1020. Above mentioned specification contradicts with Book 3 - Detailed Specifications, section DS-12 sentence saying "Caissons and Columns shafts shall have an Antimicrobial Admixture". Antimicrobial Admixture requirement in concrete can cause six figure impact on price of the concrete for drilled shaft portion of work alone. Please clarify if drilled shaft concrete require antimicrobial admixture.

A27: Will not require antimicrobial admixture. Remove and replace page DS-13 and DS-14 with the attached DS-13 revised and DS-14 revised.

Q28: Please confirm if fabricator for pay item X5091725 - Bicycle Railing, Special, will be required to be AISC certified as per IDOT specifications referenced in the special provisions for this pay item.

A28: Yes, required to be AISC certified.

Q29: Detail 2 on Sheet A-1, shows a 5/32" thick polycarbonate prismatic cover at each light fixture. This item is not mentioned in either Bicycle Railing or LED Light Fixtures special provisions. Please clarify how this item will be paid for.

A29: The prismatic cover shall be paid for under Item 102 - Bicycle Railing, Special.

ALL REVISIONS INSCRIBED HEREIN WILL BE INCORPORATED INTO THE BID SPECIFICATION PER ADDENDUM NO. 1

End of Addendum 1

ASR Rating. The IDOT assigned expansion value for limestone or dolomite coarse aggregates (crushed stone) shall be used.

Gradation. Two or more coarse aggregate sizes, consisting of CA/CM 11, CA/CM 13, CA/CM 14, and CA/CM 16 may be combined, provided a CA/CM 11 is included in the blend.

Fly ash. Class F according to Section 1010 of the Standard Specification.

Microsilica (silica fume). According to Section 1010 of the Standard Specification.

Ground Granulated Blast Furnace (GGBF) Slag. According to Section 1010 of the Standard Specification.

Admixtures. According to Section 1021 of the Standard Specification.

Caissons and Column shafts shall have a corrosion inhibitor in accordance with Section 1020 and 1021 of the Standard Specifications.

Water. According to Section 1002 of the Standard Specification.

Concrete Mix Design.

Proportions - HPC mixes shall be designed and produced within the following target proportions.

	HIGH STRENGTH HPC CONCRETE	HPC CONCRETE
Portland Cement	605 lbs. per CY minimum	490 lbs. per CY minimum
Microsilica (silica fume)	25 lbs. per CY required	
One of the Following Required: Ground Granulated Blast Furnace Slag Cement or Fly Ash, Type F	Minimum content shall be 15% of the minimum Portland Cement content. If used for ASR mitigation, use ASR special provision, without cement reduction.	
Water:Cementitious Ratio	0.36 - 0.40	0.38 - 0.44
Air-Entraining Agent	Per IDOT approved list and manufacturer's written instructions	
High Range Water-Reducer	Per IDOT approved list and manufacturer's written instructions	
Retarder	Per IDOT approved list and manufacturer's written instructions	

Cement replacement for IDOT Class BS concrete according to Article 1020.05(c)(1)(d) of the Standard Specification shall not apply.

Corrosion inhibitors, except as specified in admixtures above for caisson and column shafts, accelerating admixtures (Types C or E), viscosity modifiers, and hydration stabilizers are not allowed unless approved by the Commissioner.

Alkali-Silica Reaction (ASR) Mitigation shall be according to the current Illinois Department of Transportation Supplemental Specification for Portland Cement Concrete. The Contractor shall include a letter of compliance with the mix design submittal indicating which mitigation option has been selected.

Physical Properties. The mix design shall meet the specifications listed in Table 1-A. The Commissioner reserves the right to conduct additional tests as required to determine the acceptability of durability and material properties of the HPC mixture.