ADDENDUM NO. 3

Date: June 19, 2019

To: All Bidders

From: Penny Owens, Assistant Purchasing Agent, City of Knoxville

Subject: Addendum No. 3 – Mineral Springs Avenue Bridge Project

Bid Date: June 25, 2019*** (See Below) at 11:00 am (Eastern Time)

This addendum is being published to postpone the bid date and provide clarification to the specifications. This addendum becomes a part of the Contract Document and modifies the original project plans and specifications as noted.

Changes to the Contract Documents & Specifications:

Bid Opening Date

The bid opening date is hereby changed from **Wednesday**, **June 19**, **2019** at 11:00 a.m. (Eastern Time) to **Tuesday**, **June 25**, **2019** at **11:00** a.m. (Eastern Time).

Clarification of Contract Documents & Specifications:

The retaining wall excavation quantity is 865 cy, but this did not get added into the total estimated quantities sheet, so the value changes from 550 cy to 1,415 cy. An updated bid form and updated plan sheets are attached to this addendum.

The "Granular Backfill (Retaining Walls)" quantity of 490 tons refers to the area just behind the stem/heel beneath the drainage strip. It is that class "A" grading "D" material we see in TDOT STD-10-1. The "Select Granular Material" quantity of 660 tons refers to the select backfill we use everywhere else (1:1 slope up to finished grade surface).

END OF ADDENDUM NO. 3

BID PROPOSAL CITY OF KNOXVILLE, TENNESSEE

Mineral Springs Avenue Bridge Project Project No. 14A-B-0570

TO THE PURCHASING AGENT
CITY OF KNOXVILLE, TENNESSEE

hereby propose(s) to furnish all material, labor, and
appliances and do all work required to complete the Contract for the Mineral Springs Avenue Bridge Project,
Project No. 14A-B-0570, located in the City of Knoxville, Tennessee, in a workmanlike manner and in
accordance with the plans of the Department of Engineering and specifications herewith attached.

Bidder further agrees that in case of failure to sign a delivered contract within thirty (30) days, the certified check or bid bond accompanying this bid and the proceeds thereof shall be the property of the City of Knoxville if the City chooses to retain said bid bond or check.

BID SCHEDULE

ITEM			TOTAL	PRICE	TOTAL PRICE
NO.	DESCRIPTION	UNITS	QUANTITY	PER UNIT	PER ITEM
1.10	Mobilization of Forces, Supplies and Equipment	LS	1		
2.10	Clearing and Grubbing	LS	1		
3.10	Removal of Structures and Obstructions	LS	1		
4.10	Excavation (Unclassified)	CY	178		
5.10	Mineral Aggregate Base	TON	211		
5.40	No 57 Stone	TON	14		
7.10	Tack Coat	GAL	163		
9.10	Bituminous Plant Mix, Grading B-M	TON	78		
9.11	Bituminous Plant Mix, Grading C-S	TON	18		
10.10	Asphaltic Concrete Surface, Grading D	TON	105		
12.62	6" Concrete Combine Curb & Gutter, Type 6-30	LF	524		
13.10	Concrete Sidewalks	SF	2,728		
13.11	Curb Cut	EA	3	_	_
20.14	18" RCP	LF	243		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
110.	DESCRIPTION	CIVIIS	QUANTITI	TER UNIT	TEXTIEM
22.12	No. 12 Catch Basin	EA	7		
22.14	No. 14 Catch Basin	EA	2		
22.15	Area Drain Catch Basin	EA	1		
26.10	Top Soil	CY	76	_	
28.10	Sodding	SY	912		
31.50	Sediment Removal	CY	36		
31.70	Erosion and Sediment Control	LS	1		
31.80	In-Stream Diversion	LS	1		
34.10	Construction Area Traffic Control	LS	1		
36.50	Geotextile Fabric for Erosion Stabilization	SY	80		
38.10	Milling Asphaltic Concrete, Surface Milling	TON	89		
39.10	Pavement Marking (Line)	LF	1,685		
39.20	Pavement Marking (Crosswalk Striping)	LF	42	_	
39.30	Pavement Marking (Stop Line)	LF	55		
42.10	Concrete Ditch	LF	180	_	
70.20	Tactile Warning System, Cast-In-Place	EA	3		
203-03.10	Select Granular Material	TON	660		
204-11	Bridge Excavation (Unclassified)	CY	1,415		
303-01.02	Granular Backfill (Bridges)	TON	900		
303-01.03	Granular Backfill (Retaining Walls)	TON	490		
604-01.20	Box Tube Safety Rail	LF	184	_	
604-01.32	Class A Concrete (Leveling)	CY	50		
604-02.03	Epoxy Coated Reinforcing Steel	LBS	26,769		
604-03.01	Class A Concrete (Bridges)	CY	255		
604-03.02	Steel Bar Reinforcement (Bridges)	LBS	17,439		
604-03.09	Class D Concrete (Bridges)	CY	115		
604-05.31	Bridge Deck Grooving (Mechanical)	SY	380		
604-09.10	Class A Concrete (Retaining Walls)	CY	155		
615-02.03	Prestressed Concrete Box Beam (21"x36")	LF	520		
620-05.02	Standard Concrete Pedestrian Classic		-		
	Rail	LF	152		
621-05.02	Temporary Shoring	LS	1 _		
709-05.08	Machined Rip-Rap (Class B)	TON	235		

ITEM			TOTAL	PRICE	TOTAL PRICE
NO.	DESCRIPTION	UNITS	QUANTITY	PER UNIT	PER ITEM
710-09.01 710-09.02	6" Perforated Pipe with Vertical Drain System 6" Pipe Underdrain	LF LF	120 20		
		TOTAL 1	BID	\$	
TOTAL BI	ID (In Words):				

1	INCLUDES THE COST OF REMOVING ALL EXISTING DRAINAGE STRUCTURES AND TWO TREES (14" BRADFORD PEARS)
	IN CONFLICT WITH PROPOSED IMPROVEMENTS. ALSO INCLUDES COMPLETE REMOVAL OF EXISTING BRIDGE NO. 43-
	A658-00.22 AND APPROACHES TO NATURAL GROUND BETWEEN STA. 10+87.00 AND STA. 12+16.00. EXISTING
	BRIDGE CONSISTS OF: 3 CONCRETE DECK GIRDER APPROACH SPANS AT 56'-0" WIDE TOTALING 129'-0" LONG.

- (2) INCLUDES THE COST OF INSTALLATION AND MAINTENANCE OF ALL CATCH BASIN PROTECTION, SEDIMENT TUBES, SLIT FENCE, 15' X15' FILTER BAG AND 30" TEMPORARY DIVERSION CULVERT.
- (3) SEE SUBSECTION 209.07 OF THE TOOT STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT OF SEDIMENT FILTER BAG.
- 4 INCLUDES ALL COSTS FOR ALL PHASES OF THE TEMPORARY IN-STREAM DIVERSION, INCLUDING LABOR, MATERIALS AND MAINTENANCE.
- (5) INCLUDES THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR INSTALLATION AND REMOVAL OF ALL TEMPORARY TRAFFIC CONTROL ITEMS AND DETOUR SIGNAGE
- (6) EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND
- (7) GRANULAR BACKFILL SHALL BE CLASS "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING NO. STD-10-1.
- (8) INCLUDES QUANTITY OF STEEL REQUIRED FOR BRIDGE DECK, BACKWALL, AND ABUTMENTS. REBAR QUANTITIES NOT INCLUDED IN THIS ITEM FOR PAVEMENT AT BRIDGE ENDS AND PARAPETS.
- (9) INCLUDES QUANTITY OF CONCRETE REQUIRED FOR SIDEWALKS ON THE BRIDGE DECK, ITEM DOES NOT INCLUDE CONCRETE REQUIRED FOR SIDEWALKS ON ROADWAY APPROACHES.
- $(\widehat{10})$ includes all labor and materials (except reinforcing steel) necessary to pour the new concrete DECK AND ABUTMENT BACKWALL.
- (11) INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MECHANICALLY GROOVE THE BRIDGE DECK AND PAVEMENT AT BRIDGE ENDS AND TO REMOVE GROOVING RESIDUE.
- ② COST OF FLASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.
- ③ INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO STABILIZE EXCAVATIONS AT ABUTMENTS, AS
- (4) COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
- (15) SEE STANDARD DRAWING STD-10-1
- (6) SEE TOOT STANDARD DRAWING STD-11-3 FOR DETAILS. CONTRACTOR SHALL OMIT THE TRI STAR EMBLEM FROM
- 17 ITEM INCLUDES ALL LABOR AND MATERIALS REQUIRED TO CONSTRUCT NEW SIDEWALKS ON ROADWAY APPROACHES, ITEM DOES NOT INCLUDE LABOR OR MATERIALS REQUIRED FOR SIDEWALKS ON THE BRIDGE DECK.

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UTILITIES

- 1. THE LOCATION OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY
- 2. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED. BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTORS AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT
- 3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT IN THE EVENT THAT SPECIAL FOLIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF
- 4. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID. IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF THE WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- 5. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES, PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- 6. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111.
- 7. ALL POWER, LIGHT AND COMMUNICATION LINES, POLES, WATER LINES, GAS LINES, SEWER LINES OR OTHER PUBLIC UTILITIES CONFLICTING WITH THE PROPOSED IMPROVEMENTS SHALL BE RESET OR ADJUSTED BY THEIR RESPECTIVE OWNERS AS FOLLOWS

KNOXVILLE LITILITIES BOARD -ALL GAS, ELECTRIC, WATER, AND SANITARY SEWER

ALL TELEPHONE LINES.

WOW! OR COMCAST -ALL CABLE TELEVISION

AT&T -

GRADING

- 1. ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS SPECIFIED IN THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015 EDITION)
- 2. EXCAVATED MATERIAL IN EXCESS OF THAT REQUIRED FOR EMBANKMENT FILLING, OR UNSUITABLE FOR SUCH SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR WITH THE SITE OF DISPOSAL BEING APPROVED BY THE ENGINEER. ALL APPLICABLE PERMITS FOR THE DISPOSAL OF MATERIAL SHALL BE OBTAINED BY THE CONTRACTO
- 3. ALL EARTHEN AREAS EXPOSED BY CONSTRUCTION SHALL BE COVERED WITH 4 INCHES OF TOPSOIL AND SODDED. WORK SHALL BE DONE IN AN EXPEDIENT MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.
- 4. ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. CONTRACTOR SHALL CLEAR ONLY AREAS TO BE EXCAVATED.

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		KR	05 40 40	
INTITY UPDATE	VP OLI		06-12-19	1
	KK QU.	KR	06-18-19	2

PROIECT No.

14A-B-0570

YEAR

2019 REVISIONS SHEET No.

MAINTENANCE OF TRAFFIC

- 1. CONTRACTOR SHALL NOTIFY AFFECTED PROPERTY OWNERS TWO WEEKS PRIOR TO MAKING ANY LANE CLOSURES AND BEGINNING WORK.
- 2. ACCESS TO ALL PRIVATE DRIVES MUST BE MAINTAINED DURING CONSTRUCTION.
- 3. PEDESTRIAN ACCESS MUST BE MAINTAINED TO ALL ADJOINING PROPERTIES DURING CONSTRUCTION AND NON-CONSTRUCTION HOURS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A STAGING AREA WITH THE APPROVAL OF THE ENGINEER, LOCATED TO MINIMIZE IMPACT TO THE AREA. THI CONTRACTOR MUST IDENTIFY A PARKING AREA, WITH THE APPROVAL OF THE ENGINEER, FOR EMPLOYEE PARKING.
- 5. THE CONTRACTOR SHALL NOT OPERATE TRACK-DRIVEN EQUIPMENT ON THE ADJACENT LOCAL STREET SYSTEM AND IS DISCOURAGED FROM OPERATING RUBBER-TIRED CONSTRUCTION EQUIPMENT ON ADJACENT STREETS. IN THE EVENT THAT SUCH OPERATIONS BECOME NECESSARY, THEY MUST BE COORDINATED THROUGH THE
- 6. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING NECESSARY TRAFFIC CONTROL. ALL SITUATIONS AND TRAFFIC SCHEMES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF KNOXVILLE SPECIFICATIONS, SECTION 34.0 AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD).

DRAINAGE

- 1. THE COST OF EXCAVATION AND BACKFILL FOR PIPE CULVERTS AND CATCH BASINS IS TO BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE STRUCTURE.
- 2. WHERE A PIPE CULVERT OR CATCH BASIN IS MOVED TO A NEW LOCATION FROM THAT SHOWN ON THE PLANS, THUS INCREASING OR DECREASING THE AMOUNT OF EXCAVATION, NO INCREASE OR DECREASE OF PAYMENT SHALL BE MADE FOR SUCH
- 3. ALL PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLASS "B" BEDDING WITH A MINERAL AGGREGATE BASE FOUNDATION MEETING THE REQUIREMENTS OF SECTION 5.0 OF THE CITY OF KNOXVILLE SPECIFICATIONS. BACKFILL OF PIPES, SEWERS AND CULVERTS UNDER STREETS (OR LESS THAN 5 FEET FROM THE OUTSIDE EDGE OF THE ROADWAY) CURBS, GUTTERS AND SIDEWALKS SHALL BE ACCOMPLISHED WITH MINERAL AGGREGATE BASE MATERIAL MEETING THE REQUIREMENTS OF SECTION 5 OF THESE SPECIFICATIONS AND COMPACTED AS HEREIN ABOVE SPECIFIED THE COST OF THE BACKFILL IS NOT A SEPERATE PAY ITEM AND SHALL BE INCLUDED IN THE BID PRICE PER LINEAR FOOT.



CONSTRUCTION

benesch

CITY OF KNOXVILLE DEPARTMENT OF ENGINEERING

ESTIMATED QUANTITIES AND GENERAL NOTES

UNIT

TOTAL

1	LUMP SUM: TO INCLUDE COMPLETE REMOVAL OF EXISTING BRIDGE
·	LUMP SUM: TO INCLUDE COMPLETE REMOVAL OF EXISTING BRIDGE NO. 43–A658–00.22 AND APPROACHES TO NATURAL GROUND BETWEEN
	STA, 10 + 87,00 AND STA, 12 + 16,00, EXISTING BRIDGE CONSISTS OF: 3
	CONCRETE DECK GIRDER APPROACH SPANS AT 56'-0" WIDE TOTALING
	129'-0" LONG.

- ② EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING
- (3) GRANULAR BACKFILL SHALL BE CLASS "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING NO. STD-10-1.
- 4 INCLUDES QUANTITY OF STEEL REQUIRED FOR BRIDGE DECK, BACKWALL, AND ABUTMENTS. REBAR QUANTITIES NOT INCLUDED IN THIS ITEM FOR PAVEMENT AT BRIDGE ENDS AND PARAPETS.



ITEM NO.

DESCRIPTION

- (5) INCLUDES QUANTITY OF CONCRETE REQUIRED FOR SIDEWALKS ON THE BRIDGE DECK. ITEM DOES NOT INCLUDE CONCRETE REQUIRED FOR SIDEWALKS
 - 6 INCLUDES ALL LABOR AND MATERIALS (EXCEPT REINFORCING STEEL) NECESSARY TO POUR THE NEW CONCRETE DECK AND ABUTMENT BACKWALL.

- (7) INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MECHANICALLY GROOVE THE BRIDGE DECK AND PAVEMENT AT BRIDGE ENDS AND TO REMOVE GROOVING RESIDUE.
- (8) COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.

SUPERSTRUCTURE ABUTMENT NO.1 ABUTMENT NO.2 RETAINING WALL

305

500

20

3,390

118

5,074

0.33

60

10

660

865

490

184

1755

7925

155

0.33

- OST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
- 10 SEE STANDARD DRAWING STD-10-1.
- (1) INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO STABILIZE EXCAVATIONS AT ABUTMENTS, AS NEEDED.



12 SEE TOOT STANDARD DRAWING STD-11-3 FOR DETAILS. CONTRACTOR SHALL OMIT THE TRI STAR EMBLEM FROM THIS INSTALLATION.

PROJECT No.		YEAR		SHEET No.				
	14A-B-0570			2019	<u>6C</u>			
	REVISIONS							
No.	DATE	BY		BRIEF DE	SCRIPTION			
1	06-12-19	KR	ITEM	ITEM UPDATE; FOOTNOTES ADDED/REVISED				
2	06-18-19	KR		QUANTITY UPDATE				



CITY OF KNOXVILLE DEPARTMENT OF ENGINEERING

QUANTITIES

MINERAL SPRINGS AVENUE BRIDGE REPLACEMENT PROJECT