Addendum

Iowa Department of Transportation

Office of Contracts

Date of Letting: December 20, 2016 Date of Addendum: November 22, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
011	31-0209-209	BRIDGE NEW - PPCB	DUBUQUE	NHSX-020-9(203)3H-31	20DEC011A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

 Change Proposal Line No. 0040 2402-2722000 EXCAVATION, CLASS 22:

 From:
 68.000 CY

 To:
 129.000 CY

If the above changes are not made, they will be made as shown here.

Replace plan SHEET NUMBER 2 and SHEET NUMBER 3 with the attached SHEET NUMBER 2 and SHEET NUMBER 3

SUMMARY OF CONCRETE (QUANTITIE	S
LOCATION	STRUCTURAL CONCRETE	HPC STRUCTURAL CONCRETE
SOUTH ABUT.FTG.	17.4	
NORTH ABUT.FTG.	17.4	
BRIDGE DECK + ABUT.& PIER DIAPHRAGMS		243.1
ABUTMENT WINGS		12.0
PIER #I	81.2	
PIER #2	80.5	
TOTAL (CU. YDS.)	196.5	255.1

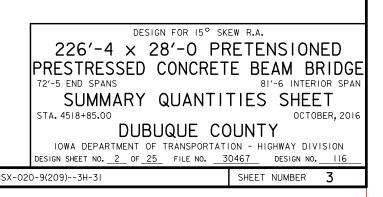
SUMMARY OF REINFORCING STEEL							
LOCATION	NON-COATED REINFORCING STEEL	STAINLESS STEEL REINFORCING STEEL	EPOXY COATED REINFORCING STEEL				
BRIDGE DECK + ABUT.FTG.**	144		63,530				
ABUTMENT WINGS			964				
BARRIER RAIL		2,489	9,203				
PIER #I	10,201						
PIER #2	10,137						
** INCLUDES ABUTMENT AND PIER DIAPHRAGMS							
TOTAL (LBS.)	20,482	2,489	73,697				

SUMMARY	OF EXCAV	ATION	
LOCATION	CLASS 20 EXCAVATION	CLASS 21 EXCAVATION	CLASS 22 EXCAVATION
SOUTH ABUT.FTG.	96.1		
NORTH ABUT.FTG.	96.1		
PIER #I	97.5	37.5	63.3
PIER #2	82.5	37.5	65.5
TOTAL (CU. YDS.)	372.2	75.0	128.8

	SUMMARY	OF	FOUNDATIONS			
LOCATION	SUBSTRUCTURE TYPE		FOUNDATION TYPE	NUMBER	LENGTH (LIN.FT.)	TOTAL (LIN. FT.)
SOUTH ABUT.FTG.	INTEGRAL ABUTMENT		HPI0×57	7	35	245
NORTH ABUT.FTG.	INTEGRAL ABUTMENT		HPI0×57	7	35	245
PIER #I	TEE PIER		SPREAD FOOTING	1		
PIER #2	TEE PIER		SPREAD FOOTING	1		

	SUMMARY OF BEARINGS		
LOCATION	BEARING TYPE	NUMBER	ASSOCIATED BID ITEM
SOUTH ABUT.FTG.	S3 × 7.5	5	INCIDENTAL ITEM
NORTH ABUT.FTG.	S3 × 7.5	5	INCIDENTAL ITEM
PIER #I	PLAIN NEOPRENE I"	10	INCIDENTAL ITEM
PIER #2	PLAIN NEOPRENE I"	10	INCIDENTAL ITEM

	SUMMARY	OF	STRUCTUR	AL S	TEEL
	LOCATION				TOTAL (LBS.)
BRIDGE DECK DIAPHRAGMS	DRAINS				636 3,025
			τοτά	L (LBS.)	3,661



ESTIMATED BRIDGE QUANTITIES

ESTIMATED DRIDGE QUANTITIES							
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUANTITY		
1	2104-2710020	EXCAVATION, CLASS IO, CHANNEL	CY	599.0			
2	2402-2720000	EXCAVATION, CLASS 20	CY	372			
3	2402-2721000 EXCAVATION, CLASS 21		CY	75			
4	2402-2722000	EXCAVATION, CLASS 22	CY	129			
5	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	196.5			
6	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	255.1			
7	2404-7775000	REINFORCING STEEL	LB	20,482			
8	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	73,697			
9	2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	2,489			
10	2407-0551371	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C71	EACH	10			
	2407-0551380	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C80	EACH	5			
12	2408-7800000	STRUCTURAL STEEL	LB	3,661			
13	2414-6424119	CONCRETE BARRIER RAILING, AESTHETIC	LF	506.7			
14	2501-0201057	PILES, STEEL, HP 10 X 57	LF	490			
15	2501-6335010	PREBORED HOLES	LF	140			
16 17	2507-2638650	BRIDGE WING ARMORING - EROSION STONE	SY	24.3			
17	2507-3250005 2507-6799000	ENGINEERING FABRIC BANK SHAPING	SY LS	1,111.0			
18	2507-6800061	REVETMENT, CLASS E	TON	1.00 833.0			
20	2507-8029000	EROSION STONE	TON	138.0			
20	2520-3350015	FIELD OFFICE	EACH	138.0			
21	2526-8285000	CONSTRUCTION SURVEY	LS	1.00			
23	2533-4980005	MOBILIZATION	LS	1.00			
ITEM NO.		DESCRIPTION					
l.	INCLU	DES EXCAVATION NECESSARY TO PLACE REVETMENT AND E	ROSION ST	ONE.			
5	SUBDF	DES ALL PREFORMED EXPANSION JOINT FILLER REQUIRED. RAIN (INCLUDING EXCAVATION),FLOODABLE BACKFILL,POROL DING,AND SUBDRAIN OUTLET AT BOTH ABUTMENTS.					
6	INCLU ABUTN	BID ITEM INCLUDES THE CONCRETE FOR THE SLAB, ABUTM DES FURNISHING AND PLACING 3 INCH DIAMETER PVC PLA MENT WINGS.REFER TO THE DEVELOPMENTAL SPECIFICATIO TURES" FOR ADDITIONAL INFORMATION.	STIC PIPE	AND EXPANDIN	G FOAM IN THE		
10	BEAM.	DES PIER AND ABUTMENT BEARING MATERIAL.NONSTANDAF INCLUDES CONTRACTOR FILLING OUT BEAM NUMBERS BY I BEAM DATA SPREADSHEET" AND FORWARDING ELECTRONIC	_OCATION A	ND BEAM SEAT	F ELEVATIONS IN		
H	II CONTRACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM SEAT ELEVATIONS IN "PPC BEAM DATA SPREADSHEET" AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER.						
12	INCLU	DES 6 DECK DRAINS AT 106 LBS.EACH.					
13	13 THE CAST-IN-PLACE CONCRETE BARRIER RAILS SHALL USE CLASS C MIX AND BE BUILT IN ACCORDANCE WITH THE DIMENSIONS AND SPECIFICATIONS SHOWN IN THESE PLANS.SLIP-FORMING OF THE CONCRETE BARRIER RAILS IS NOT ALLOWED. WHEN TYPE A MID-RANGE WATER REDUCING ADMIXTURE IS USED, THE SLUMP, MEASURED ACCORDING TO MATERIALS I.M. 317, MAY BE INCREASED TO BETWEEN I INCH AND 4 INCHES AS A TARGET RANGE, ALLOWING A MAXIMUM OF 5 INCHES. IF A HIGH-RANGE WATER REDUCING ADMIXTURE IS USED, THE SLUMP, MEASURED ACCORDING TO MATERIALS I.M. 317, MAY BE INCREASED TO BETWEEN I INCH AND 7 INCHES AS A TARGET RANGE, ALLOWING A MAXIMUM OF 8 INCHES. INCLUDES MATERIAL AND LABOR ASSOCIATED WITH PROVIDING AND INSTALLING APPROXIMATELY 1,015 FEET OF 2 INCH DIAMETER RIGID STEEL CONDUIT IN RAIL, JUNCTION BOXES AND FITTINGS.PRICE BID FOR THIS ITEM SHALL INCLUDE THE COST OF CAST-IN-PLACE FORMS.						
16		DES FURNISHING AND PLACING ENGINEERING FABRIC, EROS NG AND COMPACTING FOR WING ARMORING.	ION STONE,	AND ALL REQU	IIRED EXCAVATING,		

- I7 ENGINEERING FABRIC SHALL BE MATERIAL AS SPECIFIED FOR EMBANKMENT EROSION CONTROL IN ACCORDANCE WITH ARTICLE 4196.01, B, 3, OF THE STANDARD SPECIFICATIONS.
- 18 INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM BANK SHAPING ON THE NORTH BANK OF THE CHANNEL AS DETAILED ON SHEET 4. THE BANK SHAPING WILL NOT BE MEASURED SEPARATELY BUT WILL BE CONSIDERED LUMP SUM AND THE CONTRACTOR WILL BE PAID THE LUMP SUM CONTRACT PRICE.
- 19 ESTIMATED AT 1.6 TON/CY.
- 20 ESTIMATED AT 1.6 TON/CY.
 - whks

engineers + planners + land surveyors

GENERAL NOTES:

THIS DESIGN IS FOR CONSTRUCTION OF A NEW 226'-4 \times 28'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE.

THIS BRIDGE IS DESIGNED FOR HL-93 LOADING, PLUS 20 LBS. PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE.

THE CITY AND UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE BRIDGE CONTRACTOR OF THE CONSTRUCTION STARTING DATE.

IT SHALL BE THE BRIDGE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SITES FOR EXCESS EXCAVATED MATERIAL.NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

THE APPROACH FILLS AS SHOWN ARE NOT A PART OF THIS CONTRACT, BUT ARE TO BE IN PLACE BEFORE ABUTMENT PILES ARE DRIVEN. THE BRIDGE CONTRACTOR IS TO LEVEL OFF AND SHAPE THE BERMS TO THE ELEVATIONS AND DIMENSIONS SHOWN.DRESSING OF SLOPES OUTSIDE THE BRIDGE AREA NOT DISTURBED BY THE BRIDGE CONTRACTOR SHALL BE PAID FOR AS EXTRA WORK.

THE BRIDGE CONTRACTOR SHALL PREBORE HOLES FOR ABUTMENT PILES.HOLES SHALL BE BORED TO THE ELEVATIONS SHOWN ON THE "LONGITUDINAL SECTION ALONG CENTERLINE ROADWAY" ON DESIGN SHEET 3. PILES SHALL BE DRIVEN THROUGH THE HOLES TO AT LEAST THE SPECIFIED DESIGN BEARING.

THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (5al is $\frac{5}{6}$ inch diameter bar). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	П
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.

THE KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF IO DEGREES FROM VERTICAL.

THE BRIDGE CONTRACTOR IS TO CLEAR AND/OR SHAPE THE CHANNEL WITHIN THE APPROXIMATE LIMITS OF THE CLASS E REVETMENT AND EROSION STONE AS SHOWN ON THE "SITUATION PLAN" AND "LONGITUDINAL SECTION ALONG CENTERLINE ROADWAY" ON DESIGN SHEET 3.

CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX.CLASS D CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS.

SHOP DRAWING SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS SHOWN IN THE TABLE BELOW. (NOTE ADDITIONAL SHOP DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS.)

SUBMITTAL REQUIREMENTS FOR SHOP DRAWINGS SHOULD BE IN ACCORDANCE WITH ARTICLE 1105.03, OF THE STANDARD SPECIFICATIONS, FOR HIGHWAY AND BRIDGE CONSTRUCTION OF THE IOWA DEPARTMENT OF TRANSPORTATION.

I STEEL INTERMEDIATE DIAPHRAGMS

2 DECK DRAINS

SPECIFICATIONS:

DESIGN: AASHTO LRFD 7th Ed, SERIES OF 2014, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT, INCLUDING:

DEVELOPMENTAL SPECIFICATION FOR HIGH PERFORMANCE CONCRETE FOR STRUCTURES, DS-15044.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7th Ed, SERIES OF 2014, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

REINFORCING STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 5, GRADE 60.

CONCRETE IN ACCORDANCE WITH LRFD AASHTO SECTION 5, f'c = 4.0 KSI, EXCEPT PRESTRESSED BEAM CONCRETE AS NOTED.

PRESTRESSED CONCRETE BEAMS, SEE DESIGN SHEET 13.

BRIDGE DECK CONCRETE f'c = 4.0 KSI

STRUCTURAL STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 6. ASTM A709 GRADE 36, GRADE 50, AND GRADE 50W (AASHTO M270 GRADE 36, GRADE 50, AND GRADE 50W).

BRIDGE DECK DIMENSION TABLE			
	ITEM	UNITS	QUANTITY
-	DECK LENGTH	L.F.	229.4
2	DECK WIDTH	L.F.	31.2
3	DECK AREA	S.F.	7,151

 DECK LENGTH IS MEASURED FROM FACE-TO-FACE OF PAVING NOTCHES ALONG THE CENTERLINE OF THE ROADWAY.
 DECK WIDTHS ARE MEASURED FROM OUT-TO-OUT OF DECK

PERPENDICULAR TO THE CENTERLINE OF ROADWAY. 3. DECK AREA IS TO BE BASED ON THE FACE-TO-FACE PAVING NOTCH DISTANCE AND OUT-TO-OUT DECK DIMENSIONS.

	NOTE: ROADWAY QUANTITIES SHOWN ELSEWHERE IN THESE PLANS.	
	NOTE: POLLUTION PREVENTION PLAN SHOWN ELSEWHERE IN THESE PLANS.	
	TRAFFIC CONTROL PLAN: THIS STRUCTURE IS BEING CONSTRUCTED RELOCATION AND THE ROAD WILL NOT BE TRAFFIC UNTIL AFTER COMPLETION OF C	E OPEN TO
	DESIGN FOR 15° SK 226'-4 × 28'-0 PF PRESTRESSED CONCRET 72'-5 END SPANS ESTIMATED QUANTIT STA. 4518+85.00 DUBUQUE CO IOWA DEPARTMENT OF TRANSPORTAT DESIGN SHEET NO OF 25 FILE NO3	RETENSIONED E BEAM BRIDGE BI'-6 INTERIOR SPAN TIES & NOTES OCTOBER, 2016 OUNTY ION - HIGHWAY DIVISION
020	D-9(209)3H-3I	SHEET NUMBER 2