ADDENDUM NO. 1

ISSUED BY: HOWE COMPANY, LLC 1119 SOUTH MISSOURI STREET, SUITE A MACON, MO 63552

DATE: September 28, 2017

FOR: CLARK COUNTY BRIDGE NO. 18400061 BRO-B032(27)

The attached revisions hereby supersede any and all data with which they may conflict as indicated on the Drawings, Specifications and related documents issued in the original set. Each trade is responsible for changes in its work caused by changes in the work of other trades. This addendum is a part of and shall be attached to the original set of plans and specifications for the work.

THIS ADDENDUM SHALL BECOME A PART OF THE SPECIFICATIONS NOTED ABOVE. RECEIPT OF THIS ADDENDUM SHOULD BE ACKNOWLEDGED ON THE BID FORM.

REVISED PLAN SHEET 2

Sheet 2 of the project plans has been updated to adjust concrete quantities. The Pay Item "Class B-2 Substructure Concrete" has been removed. The note separating the furnishing and placement of concrete from the drill shaft and rock socket pay items has been removed. All cost associated with the Drilled Shafts and Rock Sockets shall be included in the pay items "Drilled Shafts (3'-6" Dia.)" and "Rock Sockets (3'-0" Dia.)" per MoDOT Standard Specifications.

REVISED BID FORM

The bid form has been updated to adjust concrete quantities. Line Item 27 "Class B-2 Substructure Concrete" has been removed. Use the bid form issued with this addendum.

NO CHANGE IN BID DATE/TIME



Page 1 of 1

Bid Form Issued With Addendum #1 CLARK COUNTY BRIDGE NO. 18400061 ITEMIZED PROPOSAL TEMPORARY ROADWAY ITEMS BY CONTRACTOR

BRO-B023(27) PAGE 1

LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	JSP	Biaxial Geo Grid	S.Y.	348		
2	JSP	6" Layer of 3" Crushed Stone	S.Y.	348		
3	310	2" Layer Aggregate Surface	S.Y.	348	1	
4	JSP	Repair&Maintenance of Temporary Roadway	L.S.	1		
5	JSP	Removal of Temporary Roadway	L.S.	1		

Sub-Total Temporary Roadway Items=

ROADWAY ITEMS BY CONTRACTOR

LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
6	201	Clearing and Grubbing	ACRE	0.65		·
7	202	Removal of Improvements	L.S.	1		
8	203	Embankment in Place	C.Y.	7,654		
9	203	Unclassified Excavation	C.Y.	1,158		
10	310	4" Layer Crushed Stone Roadway Aggregate	S.Y.	1,568		
11	606	Type A Railing	L.F.	75		
12	606	Guardrail Transition Section	EACH	4		

Bid Form Issued With Addendum #1 CLARK COUNTY BRIDGE NO. 18400061 ITEMIZED PROPOSAL ROADWAY ITEMS BY CONTRACTOR

BRO-B023(27) PAGE 2

LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT			
13	606	End Anchor	EACH	4					
14	616	Movable Barricades	EACH	6					
15	616	Construction Signs	EACH	5					
16	618	Mobilization	L.S.	1					
17	627	Contractor Furnished Surveying & Staking	L.S.	1					
18	805	Seeding	ACRE	1.05					
19	806/JSP	Rock Ditch Checks	EACH	4					
20	806/JSP	Silt Fence	L.F.	597					
21	903	Permanent Type 3 Object Marker	EACH	4					
22	1020	12" C.M.P.	L.F.	80					
	Sub-Total Roadway Items =								
	BRIDGE ITEMS BY CONTRACTOR								
23	206/JSP	Excavation for Structure	L.S.	1					
24	216.1	Removal of Bridge	L.S.	1	xxxxxxxxx				

Bid Form Issued With Addendum #1 CLARK COUNTY BRIDGE NO. 18400061 ITEMIZED PROPOSAL BRIDGE ITEMS BY CONTRACTOR

BRO-B023(27) PAGE 3

LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
25	501	B-1 Substructure Concrete	C.Y.	150		
26	501	B-2 Superstructure Concrete	C.Y.	158		
	ana ang	3 555 3	TOTAL:)		XXXXXXXXX
28	611.3	MoDOT Type 2 Rock Blanket	C.Y.	1,250		
29	624	MoDOT Permanent Erosion Control Fabric	S.Y.	1,844		
30	701	Drilled Shafts (3'-6" Dia.)	L.F.	45.9		
31	701	Rock Sockets (3'-0" Dia.)	L.F.	110.1		
32	701	Foundation Inspection Holes	L.F.	170.1		
33	701	Sonic Logging Testing	EACH	6		3
34	701	Supplemental Television Camera Inspection	EACH	6		()
35	702/JSP	HP 10 x 42 Piling - Galvanized	L.F.	288		5 <u></u>
36	702	Pile Points	EACH	8		2
37	706	Reinforcing Steel	LBS.	81,155		

Bid Form Issued With Addendum #1 CLARK COUNTY BRIDGE NO. 18400061 ITEMIZED PROPOSAL BRIDGE ITEMS BY CONTRACTOR

BRO-B023(27) PAGE 4

LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
38	705	Prestressed Concete Deck Panels	S.Y.	233		
39	705	Prestressed Concrete NU-43 I-Girders (Span 1-2)	EACH	3		
40	705	Prestressed Concrete NU-43 I-Girders (Span 2-3)	EACH	3	() 0 f	
41	705	Prestressed Concrete NU-43 I-Girders (Span 3-4)	EACH	3	1.0 11 .	
42	713	SL-1 Rail On Bridge	L.F.	416.66		
43	715	Vertical Drains at End Bent	EACH	2		
44	716	Plain Neoprene Bearing Pads	EACH	18		•
		Sub-Total Bridge Items TOTAL CONTRACTOR =				
BID SU	BMITTED	BY:				
REPRES	SENTING:					
ADDEN	IDUM #	INITIAL TO SHOW ACKNOWLEDGE	MENT			
#	‡1					

	FOUNDATION				
	BENT NO.	1	2	3	4
	Number of 10x42 H Piling Each	4			4
DRIVEN	Approximate Length Ft.	36			36
PILES	Design Bearing Tons	47			47
		403.00			402.00 382.00
		382.00 418.00		-	418.00
		8,000		_	8.000
	Foundation Material	8,000	Shale	e Bedrock	0,000
	LAYER 1 Elevation Range Ft.			0' 391.0'-388.0'	
	Design Side Friction		1.5 KSF	1.5 KSF	
	End Bearing		15 KSF	15 KSF	
ROCK	Foundation Material		Shale	Bedrock	
SOCKETS	LAYER 2 Elevation Range Ft.			0' 388.0'-370.0'	
	Design Side Friction		4 KSF	4 KSF	
	End Bearing		30 KSF	30 KSF	
W	ORK TO BE PERFORMED BY CON	ITRACT	OR	Existina Bridge	HYD
	TEURODARY ROADWAY/ITEUR			Drainaae Area	Deck Elev
ITEM	TEMPORARY ROADWAY ITEMS		EST. QTY	Design Frequence	`V
	Biaxial Geo Grid	S.Y.		Design Dischara	
	6" Layer of 3" Crushed Stone 2" Layer Aggregate Surface	S.Y. S.Y.		Backwater for D	
	Z Laver Aggregate Surface Repair&Maintenance of Temp. Roadwa			Design High Wat	
	Removal of Temporary Roadway	L.S.		Low Elevation o	
001		L, J,		100 Year Discha	arge
ITEM	ROADWAY ITEMS		EST. QTY.	100 Year High	Nater Elev
	Clearing and Grubbing	Acre		Approach Roady	vay Overta
	Removal of Improvements	L.S.			
	Embankment in Place	C.Y.		NOTES:	
	Unclassified Excavation	C.Y.		Minimum	
	4" Layer Roadway Aggregate	S. Y.		Minimum e length and	
	Type A Railing	L.F.	75 *	1532-+10+ (580-+10	
606	Guardrail Transition Section	Ea.	4 *	Contractor piles. The	shall ins cast ste
606	End Anchor	Ea.		or better. reinforcem	
	Movable Barricades	Ea.		reinforcem for item	ent shall
	Construction Signs	Ea.		(or item	File Foint
	Mobilization	L.S.		This proje	
	Contractor Furnished Surveying & Sto			permits a	
	Seeding	Acre		complying	with un
	Rock Ditch Checks	Ea.			
	Silt Fence	L.F.	597 *		
	Permanent Type 3 Object Marker 12" C.M.P.	Ea. L.F.		* These iter	ns require
1020	TZ C.M.P.	. ۲.			
ITEM	BRIDGE ITEMS		EST. QTY.		
	Excavation For Structure	L.S.			
	Removal of Bridge	L.S.			
501	Class B-1 Substructure Concrete	C.Y.			
	Class B-2 Superstructure Concrete	C.Y.	158 *	6	
				<u>0</u>	
	MoDOT Type 2 Rock Blanket	C. Y.			
624	MoDOT Perm. Erosion Control Fabric	S. Y.		+ K	
701	Drilled Shafts (3'-6" Dia.)	L.F.	45.9 *	IK	Cast-In-F
	Rock Sockets (3'-0" Dia.)	L.F ₂₂	110.1 *		over Pres [.] Concrete
	Foundation Inspection Holes	L.F.	170.1 *	5	
	Sonic Logging Testing Supplemental Television Camera Inspe	Ea.			
	HP 10x42 Piling - Galvanized	L.F.	288 *	w Let-	<u></u>
	Pile Points	Eq.		f L	
	Reinforcing Steel	LBS		E.	
	Prestressed Concrete Deck Panels	S.Y		1	
	NU-43 Prest. Conc. I-Girders (Sp. 1		3 *		
	NU-43 Prest. Conc. I-Girders (Sp. 2				
	NU-43 Prest. Conc. I-Girders (Sp. 3				-
/1/.)		L.F.			C
	Type SL-I RAILING				
713	Type SL-1 RAILING Vertical Drains at End Bents	Ea.	the second se		' z 1"
713 715			2 *	3	'-3 ¦ "

	HYDROLOGIC DATA		
	Existing Bridge Deck Elev.	Ft.	N/A
	Drainage Area	Sq. Mi.	395.36
*	Design Frequency	Years	25
*	Design Discharge	Cfs.	22,272
*	Backwater for Design Frequency	Ft.	0.6
	Design High Water at the Structure	Ft.	417.67
	Low Elevation of Superstructure	Ft.	419.50
	100 Year Discharge	Cfs.	30,435
	100 Year High Water Elevation at the Struc	cture Ft.	419.37
	Approach Roadway Overtopping Frequency	Years	2

requirement of hammer is based on plan an bearing value of piles.

install cast steel driving points on all steel materials shall be ASTM A27 65/35 s of providing and installing pile tip hall be included in the contract unit price oints

been granted various environmental arances. The contractor is responsible for all permit conditions.

quire certification/shop drawings/submittal

GENERAL NOTES

Construction," 2011, and current Supplemental Specifications Revisions.

Job Special Provisions shall prevail over General Special Provisions whenever in conflict therewith.

Design Specifications:

"2002 A.A.S.H.T.O. Standard Specifications for Highway Bridges, 17th Edition."

Design Loading:

HS20-44

Seismic performance category A. Seismic acceleration coefficient 0.075.

Earth 120 lbs. per cu. ft., Equivalent Fluid Pressure 30 lbs. per cu. ft.

25 Lb. per sq. ft. Future Wearing Surface.

Superstructure:

Simply supported non-composite for Dead Load. Continuous composite for Live Load. Desian Unit Stresses:

Reinforcing Steel (Grade 60) fy=60,000 p.s.i.

Minimum clearance to reinforcing steel shall be $1 \ 1/2$ " unless otherwise shown.

All non-anchor bolts shall be ASTM A325 High Strength.

Anchor bolts shall be in accordance with ASTM A307. The anchor bolts, nuts and washers shall be hot-dip galvanized in accordance with ASTM A153 $\,$

Concrete for Drilled Shaft and Rock Socket shall be MoDOT class B-2, All other substructure concrete shall be class B-1

The estimated elevations for encountering the shale bed rock are estimated based on the geotechnical report from Crockett, which is provided in the JSP. If the foundation inspection holes reveal that rock will be encountered at significantly different elevations then the elevations for the rock socket and drilled shafts will be adjusted by the Engineer

Cost of 2" steel ASTM A53 pipe for Sonic Testing shall be included with the bid item "Sonic Logging Testing".

Cost of 42"ø steel casing will be included in bid item "Drilled Shafts (3'-6" Dia.)"

---(Note Deleted)---

Use written elevations and dimensions when present. If no dimensions are given consult engineer for clarification before proceeding with work. Do NOT use scaled dimensions unless scale is provided.

The contractor shall remove and properly dispose of the remains of the old bridge.

Rock blanket that is reclaimed from the temporary crossing shall be substantially free of mud or shall be placed in non visible locations. All reclaimed rock blanket shall meet the requirements in Sec 611.30.



