

OFFICE OF THE FULTON COUNTY ENGINEER

Frank T. Onweller, P.E., P.S.,
County Engineer

Rod Creager, P.E., P.S.,
Chief Deputy Engineer

9120 Co. Rd. 14
Wauseon, OH 43567-9669
Telephone: 419-335-3816 Fax: 419-335-1091

ENGINEER'S ESTIMATE
PROJECT: Bridge 3B.1 Replacement
DATE: July 22, 2014

ENGINEER'S
\$168,000.00

Average Bid
Unit Price
4.5%

Schalk Brothers Inc.
\$159,052.70
-5.3%

Vernon Nagel, Inc.
\$179,469.85
6.8%

R. G. Zachrich Construction, Inc.
\$179,918.95
7.1%

B. Hill'z Excavating, Inc.
\$183,998.00
9.5%

REF. NO.	ITEM NO.	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	ESTIMATED COST	Average Bid Unit Price	UNIT PRICE	ESTIMATED COST						
ROADWAY															
1	201	1	LUMP	CLEARING AND GRUBBING	\$ 2,500.00	\$ 2,500.00	\$ 3,578.75	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 10,315.00	\$ 10,315.00
2	202	84	SQ YD	PAVEMENT REMOVED FOR BUTT JOINTS	\$ 12.00	\$ 1,008.00	\$ 12.00	\$ 12.00	\$ 1,008.00	\$ 12.00	\$ 1,008.00	\$ 12.00	\$ 1,008.00	\$ 12.00	\$ 1,008.00
3	203	22	CU YD	EXCAVATION	\$ 20.00	\$ 440.00	\$ 33.75	\$ 25.00	\$ 550.00	\$ 50.00	\$ 1,100.00	\$ 40.00	\$ 880.00	\$ 20.00	\$ 440.00
4	203	15	CU YD	EMBANKMENT	\$ 20.00	\$ 300.00	\$ 27.50	\$ 25.00	\$ 375.00	\$ 25.00	\$ 375.00	\$ 40.00	\$ 600.00	\$ 20.00	\$ 300.00
5	204	107	SQ YD	SUBGRADE COMPACTION	\$ 3.00	\$ 321.00	\$ 2.00	\$ 1.00	\$ 107.00	\$ 1.50	\$ 160.50	\$ 1.50	\$ 160.50	\$ 4.00	\$ 428.00
6	606	62.50	FT	GUARDRAIL, TYPE MGS	\$ 30.00	\$ 1,875.00	\$ 17.90	\$ 14.00	\$ 875.00	\$ 21.60	\$ 1,350.00	\$ 14.00	\$ 875.00	\$ 22.00	\$ 1,375.00
7	606	2	EACH	ANCHOR ASSEMBLY, MGS TYPE A	\$ 1,000.00	\$ 2,000.00	\$ 993.75	\$ 1,000.00	\$ 2,000.00	\$ 975.00	\$ 1,950.00	\$ 1,000.00	\$ 2,000.00	\$ 1,000.00	\$ 2,000.00
8	606	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E	\$ 2,000.00	\$ 4,000.00	\$ 1,917.50	\$ 1,850.00	\$ 3,700.00	\$ 1,970.00	\$ 3,940.00	\$ 1,850.00	\$ 3,700.00	\$ 2,000.00	\$ 4,000.00
9	606	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	\$ 2,000.00	\$ 8,000.00	\$ 2,178.75	\$ 1,950.00	\$ 7,800.00	\$ 1,985.00	\$ 7,940.00	\$ 1,950.00	\$ 7,800.00	\$ 2,830.00	\$ 11,320.00
ROADWAY TOTAL						\$ 20,444.00			\$ 17,415.00		\$ 18,823.50		\$ 19,023.50		\$ 31,186.00
EROSION CONTROL															
10	601	42	TON	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	\$ 60.00	\$ 2,520.00	\$ 65.25	\$ 55.00	\$ 2,310.00	\$ 100.00	\$ 4,200.00	\$ 56.00	\$ 2,352.00	\$ 50.00	\$ 2,100.00
DRAINAGE TOTAL						\$ 2,520.00			\$ 2,310.00		\$ 4,200.00		\$ 2,352.00		\$ 2,100.00
PAVEMENT															
11	407	29	GALLON	TACK COAT	\$ 3.00	\$ 87.00	\$ 2.75	\$ 2.00	\$ 58.00	\$ 2.00	\$ 58.00	\$ 2.00	\$ 58.00	\$ 5.00	\$ 145.00
12	448	16	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	\$ 225.00	\$ 3,600.00	\$ 395.00	\$ 390.00	\$ 6,240.00	\$ 390.00	\$ 6,240.00	\$ 390.00	\$ 6,240.00	\$ 410.00	\$ 6,560.00
13	617	2	CU YD	RECONDITIONING OF SHOULDERS	\$ 70.00	\$ 140.00	\$ 95.00	\$ 55.00	\$ 110.00	\$ 200.00	\$ 400.00	\$ 100.00	\$ 200.00	\$ 25.00	\$ 50.00
PAVEMENT TOTAL						\$ 3,827.00			\$ 6,408.00		\$ 6,698.00		\$ 6,498.00		\$ 6,755.00
BRIDGE 3B.1															
14	202	1	LUMP	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	\$ 12,000.00	\$ 12,000.00	\$ 14,056.50	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 14,000.00	\$ 14,000.00	\$ 12,226.00	\$ 12,226.00
15	202	77	SQ YD	WEARING COURSE REMOVED	\$ 10.00	\$ 770.00	\$ 12.00	\$ 12.00	\$ 924.00	\$ 12.00	\$ 924.00	\$ 12.00	\$ 924.00	\$ 12.00	\$ 924.00
16	503	75	CU YD	UNCLASSIFIED EXCAVATION	\$ 50.00	\$ 3,750.00	\$ 69.00	\$ 60.00	\$ 4,500.00	\$ 50.00	\$ 3,750.00	\$ 80.00	\$ 6,000.00	\$ 86.00	\$ 6,450.00
17	509	4,449	POUND	EPOXY COATED REINFORCING	\$ 1.50	\$ 6,673.50	\$ 1.53	\$ 1.50	\$ 6,673.50	\$ 1.35	\$ 6,006.15	\$ 1.25	\$ 5,561.25	\$ 2.00	\$ 8,898.00
18	510	134	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	\$ 25.00	\$ 3,350.00	\$ 19.50	\$ 15.00	\$ 2,010.00	\$ 12.00	\$ 1,608.00	\$ 16.00	\$ 2,144.00	\$ 35.00	\$ 4,690.00
19	511	19	CU YD	CLASS QC 1 CONCRETE, SUBSTRUCTURE	\$ 475.00	\$ 9,025.00	\$ 543.75	\$ 300.00	\$ 5,700.00	\$ 800.00	\$ 15,200.00	\$ 450.00	\$ 8,550.00	\$ 625.00	\$ 11,875.00
20	512	148	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	\$ 20.00	\$ 2,960.00	\$ 15.00	\$ 10.00	\$ 1,480.00	\$ 23.00	\$ 3,404.00	\$ 12.00	\$ 1,776.00	\$ 15.00	\$ 2,220.00
21	512	112	SQ YD	TYPE 3 WATERPROOFING	\$ 30.00	\$ 3,360.00	\$ 38.00	\$ 40.00	\$ 4,480.00	\$ 35.00	\$ 3,920.00	\$ 47.00	\$ 5,264.00	\$ 30.00	\$ 3,360.00
22	515	8	EACH	PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, B21-48	\$ 6,000.00	\$ 48,000.00	\$ 7,006.25	\$ 6,500.00	\$ 52,000.00	\$ 7,500.00	\$ 60,000.00	\$ 7,625.00	\$ 61,000.00	\$ 6,400.00	\$ 51,200.00
23	516	131	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	\$ 6.00	\$ 786.00	\$ 4.00	\$ 3.00	\$ 393.00	\$ 6.00	\$ 786.00	\$ 5.00	\$ 655.00	\$ 2.00	\$ 262.00
24	516	86	FT	2" DEEP JOINT SEALER, AS PER PLAN	\$ 10.00	\$ 860.00	\$ 8.50	\$ 10.00	\$ 860.00	\$ 10.00	\$ 860.00	\$ 10.00	\$ 860.00	\$ 4.00	\$ 344.00
25	516	86	FT	SPECIAL - SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	\$ 20.00	\$ 1,720.00	\$ 8.00	\$ 8.00	\$ 688.00	\$ 10.00	\$ 860.00	\$ 10.00	\$ 860.00	\$ 4.00	\$ 344.00
26	516	16	EACH	1/8" PREFORMED BEARING PAD	\$ 10.00	\$ 160.00	\$ 5.00	\$ 1.00	\$ 16.00	\$ 8.00	\$ 128.00	\$ 1.00	\$ 16.00	\$ 10.00	\$ 160.00
27	516	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (6" X 12" X 1.00" THICK)	\$ 100.00	\$ 3,200.00	\$ 54.00	\$ 60.00	\$ 1,920.00	\$ 56.00	\$ 1,792.00	\$ 60.00	\$ 1,920.00	\$ 40.00	\$ 1,280.00

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28	517	62.46	FT	RAILING (TWIN STEEL TUBE)	\$ 120.00	\$ 7,495.20	\$ 125.00	\$ 120.00	\$ 7,495.20	\$ 120.00	\$ 7,495.20	\$ 120.00	\$ 7,495.20	\$ 140.00	\$ 8,744.40
29	518	36	CU YD	POROUS BACKFILL WITH FILTER FABRIC	\$ 70.00	\$ 2,520.00	\$ 74.50	\$ 85.00	\$ 3,060.00	\$ 45.00	\$ 1,620.00	\$ 70.00	\$ 2,520.00	\$ 98.00	\$ 3,528.00
30	518	60	FT	SPECIAL - STEEL DRIP STRIP	\$ 12.00	\$ 720.00	\$ 10.00	\$ 10.00	\$ 600.00	\$ 10.00	\$ 600.00	\$ 10.00	\$ 600.00	\$ 10.00	\$ 600.00
31	526	107	SQ YD	REINFORCED CONCRETE APPROACH SLABS	\$ 225.00	\$ 24,075.00	\$ 192.75	\$ 160.00	\$ 17,120.00	\$ 185.00	\$ 19,795.00	\$ 200.00	\$ 21,400.00	\$ 226.00	\$ 24,182.00
BRIDGE 3B.1 TOTAL					\$ 131,424.70			\$ 124,919.70		\$ 143,748.35		\$ 141,545.45		\$ 141,287.40	
INCIDENTALS															
32	103	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND MAINTENANCE GUARANTEE BOND	\$ 1,784.30	\$ 1,784.30	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00	\$ 3,000.00	\$ 1,000.00	\$ 1,000.00
33	614	1	LUMP	MAINTAINING TRAFFIC	\$ 5,500.00	\$ 5,500.00	\$ 3,875.00	\$ 5,000.00	\$ 5,000.00	\$ 3,500.00	\$ 3,500.00	\$ 5,500.00	\$ 5,500.00	\$ 1,500.00	\$ 1,500.00
34	623	1	LUMP	CONSTRUCTION LAYOUT AND STAKING	\$ 2,500.00	\$ 2,500.00	\$ 917.40	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 169.60	\$ 169.60
INCIDENTALS TOTAL					\$ 9,784.30			\$ 8,000.00		\$ 6,000.00		\$ 10,500.00		\$ 2,669.60	
BID TOTAL					\$ 168,000.00			\$ 159,052.70		\$ 179,469.85		\$ 179,918.95		\$ 183,998.00	
% Difference from Engineer's Estimate										Schalk Brothers Inc. -5.3%		Vernon Nagel, Inc. 6.8%		R. G. Zachrich Construction, Inc. 7.1%	B. Hill'z Excavating, Inc. 9.5%