

ABSTRACTS OF PROPOSALS
FOR
MATERIALS AND LABOR FOR
ENGINEER DEPARTMENT

1909

LETTER FROM THE ACTING SECRETARY OF WAR,
TRANSMITTING ABSTRACTS OF PROPOSALS RE-
CEIVED DURING THE FISCAL YEAR ENDING JUNE 30,
1909, FOR MATERIALS AND LABOR IN CONNECTION
WITH WORKS UNDER THE ENGINEER DEPARTMENT

JANUARY 12, 1910.—Referred to the Committee on Rivers and Harbors
and ordered to be printed



WASHINGTON
GOVERNMENT PRINTING OFFICE

1910

MAY 26 1911
B. OF B.

LETTER OF TRANSMITTAL.

WAR DEPARTMENT,
Washington, January 12, 1910.

SIR: Pursuant to the provisions of section 230, Revised Statutes, I have the honor to transmit herewith abstracts of proposals received during the fiscal year ending June 30, 1909, for materials and labor in connection with works under the Engineer Department.

Very respectfully,

ROBERT SHAW OLIVER,
Acting Secretary of War.

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

ABSTRACT OF PROPOSALS RECEIVED IN THE VARIOUS ENGINEER DISTRICTS DURING THE FISCAL YEAR ENDING JUNE 30, 1909, IN CONNECTION WITH FORTIFICATION, RIVER AND HARBOR, AND OTHER IMPROVEMENTS UNDER THE DIRECTION OF THE CHIEF OF ENGINEERS, UNITED STATES ARMY.

OFFICE CHIEF OF ENGINEERS.

[Officer: Col. Frederic V. Abbot, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals received by Lieut. Col. Frederic V. Abbot, Corps of Engineers, and opened December 31, 1908, for furnishing and delivering powder hoists.

[Appropriation chargeable: "Gun and mortar batteries," for modernizing older emplacements, allotment of September 1, 1908, for purchase of powder hoists.]

Bidder.	12-inch.									
	Type A.			Type B.			Type C.			
	For each hoist, exclusive of chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist, exclusive of chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist, with 12 feet of tube.	Additional length of tube, per foot.	All-metallic carrier.	Flexible-bottom carrier. ^a
(1) Long Arm System Co.:										
Unit prices bid.....	\$1,188	\$34.24	\$4.84	\$1,064	\$15.28	\$4.84	\$1,144	\$16.74	\$109.45	\$107.74
Total involved ^b	2,376	684.80	968.00	7,448	2,139.20	3,388.00	25,168	1,699.11	2,407.90	.....
(2) The Richard Manufacturing Co.:										
Unit prices bid.....	775	28.00	.85	775	9.50	.85	800	20.00	65.00	75.00
Total involved ^b	1,550	560.00	170.00	5,425	1,330.00	595.00	17,600	2,030.00	1,430.00	.....
(3) Bergen Point Iron Works: ^c										
Unit prices bid.....	764	14.00	.60	824	6.40	.60	709	8.00	31.00	47.00
Total involved ^b	1,528	280.00	120.00	5,768	896.00	420.00	15,598	812.00	682.00	.....
(4) Conveying Machinery Co.: ^d										
Unit prices bid.....	906	26.95	2.48	866	41.58	2.48	1,045	9.90	35.05	21.25
Total involved ^b	1,812	539.00	496.00	6,062	5,821.20	1,736.00	22,990	1,004.85	771.10	.....
(5) New Jersey Foundry and Machine Co.:										
Unit prices bid.....	945	28.00	1.60	895	14.00	1.60	1,300	46.00	95.00	69.00
Total involved ^b	1,890	560.00	320.00	6,265	1,960.00	1,120.00	28,600	4,669.00	2,090.00	.....
(6) Dietrich Bros.:										
Unit prices bid.....	728	19.00	1.17	718	6.54	1.17	893	30.00	72.36	54.57
Total involved ^b	1,456	380.00	234.00	5,026	915.60	819.00	19,646	3,045.00	1,591.92	.....
(7) Greenlie, Wyatt & Co.:										
Unit prices bid.....	1,145	43.00	2.00	1,000	20.00	2.00	1,520	60.00	125.00	90.00
Total involved ^b	2,290	860.00	400.00	7,000	2,800.00	1,400.00	33,440	6,090.00	2,750.00	.....
(8) Detroit Hoist and Machine Co.:										
Unit prices bid.....	2,750	50.00	4.00	2,250	16.50	4.00	2,600	195.00	135.00	198.00
Total involved ^b	5,500	1,000.00	800.00	15,750	2,310.00	2,800.00	57,200	19,792.50	2,970.00	.....
(9) Modern Steel Structural Co.:										
Unit prices bid.....	1,188	26.50	2.10	1,225	7.75	2.10	1,172	19.50	32.20	36.30
Total involved ^b	2,376	530.00	420.00	8,575	1,085.00	1,470.00	25,784	1,979.25	708.40	.....

^a Since the preparation of the specifications it has been decided to use only the all-metallic carriers for the type C hoists. The prices for the flexible-bottom carriers have therefore not been considered in computing the aggregates of the bids.

^b Total involved in each bid, based on the numbers given in the specifications, as follows: 12-inch hoists, type A, 2; type B, 7; type C, 22. 10-inch hoists, type A, 17; type C, 15. Chain for each type A or B hoist, 100 feet. Carriers for each type A hoist, 10. Carriers for each type B hoist, 20. Also based on the following aggregate additional feet of tube actually required for type C hoists, as per paragraph 31 of the specifications: For 12-inch, 101.5 feet; for 10-inch, 14.5 feet.

^c Do not give full asset to paragraph 17 of specifications.

^d Alternative proposal submitted involving deductions contingent upon enforcement of claims of holders of patents.

Abstract of proposals received by Lieut. Col. Frederic V. Abbot, Corps of Engineers, and opened December 31, 1908, for furnishing and delivering powder hoists—Continued.

Bidder.	12-inch.										Total amount involved in bid.	
	Type A.			Type B.			Type C.					
	For each hoist, exclusive of chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist, exclusive of chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist with 12 feet of tube.	Additional length of tube, per foot.	All-metallic carrier.	Flexible - bottom carrier.		
(10) Atlanta Machine Works:												
Unit prices bid.....	\$900	\$16.00	\$1.40	\$930	\$5.00	\$1.40	\$712	\$12.00	\$55.00	\$55.00		
Total involved ^a	1,800	320.00	280.00	6,510	700.00	980.00	15,664	1,218.00	1,210.00	.....	
(11) Cleveland Crane and Engineering Co.:												
Unit prices bid.....	893	30.00	2.20	830	25.00	2.45	^b 950	25.00	115.00	125.00		
Total involved ^a	1,786	600.00	440.00	5,810	3,500.00	1,715.00	20,900	2,537.50	2,530.00	.....	
(12) Hoisting Machinery Co.:												
Unit prices bid.....	885	25.30	1.48	905	14.00	1.48	1,309	41.00	92.60	70.00		
Total involved ^a	1,770	506.00	296.00	6,335	1,960.00	1,036.00	28,798	4,161.50	2,037.20	.....	
10-inch.												
Bidder.	Type A.			Type C.								
	For each hoist, without chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist, with 12 feet of tube.	Additional length of tube, per foot.	All-metallic carrier.	Flexible - bottom carrier. ^c					
(1) Long Arm System Co.:												
Unit prices bid.....	\$1,224.00	\$37.24	\$4.84	\$1,144.00	\$16.74	\$109.45	\$107.74	.....			
Total involved ^a	20,808.00	6,330.80	8,228.00	17,160.00	242.73	1,641.75	.....				\$100,690.29
(2) The Richard Manufacturing Co.:												
Unit prices bid.....	765.00	32.00	.85	800.00	20.00	65.00	75.00	.....			
Total involved ^a	13,005.00	5,440.00	1,445.00	12,000.00	290.00	975.00	.....				63,845.00
(3) Bergen Point Iron Works. ^d												
Unit prices bid.....	787.00	19.00	.60	709.00	8.00	31.00	47.00	.....			
Total involved ^a	13,379.00	3,230.00	1,020.00	10,635.00	116.00	465.00	.....				54,949.00
(4) Conveying Machinery Co.; ^e												
Unit prices bid.....	1,099.80	42.10	2.48	1,023.50	9.90	35.05	21.25	.....			
Total involved ^a	18,696.60	7,157.00	4,216.00	15,352.50	143.55	525.75	.....				87,323.55
(5) New Jersey Foundry and Machine Co.:												
Unit prices bid.....	950.00	30.00	1.60	1,300.00	46.00	95.00	69.00	.....			
Total involved ^a	16,150.00	5,100.00	2,720.00	19,500.00	667.00	1,425.00	.....				93,036.00
(6) Dietrich Bros.:												
Unit prices bid.....	748.00	24.41	1.17	893.00	30.00	72.36	54.57	.....			
Total involved ^a	12,716.00	4,149.70	1,989.00	13,395.00	435.00	1,085.40	.....				66,883.62
(7) Greenlie, Wyatt & Co.:												
Unit prices bid.....	1,125.00	36.00	2.00	1,520.00	60.00	125.00	90.00	.....			
Total involved ^a	19,125.00	6,120.00	3,400.00	22,800.00	870.00	1,875.00	.....				111,220.00

^a Total involved in each bid, based on the numbers given in the specifications, as follows: 12-inch hoists, type A, 2; type B, 7; type C, 22. 10-inch hoists, type A, 17; type C, 15. Chain for each type A or B hoist, 100 feet. Carriers for each type A hoist, 10. Carriers for each type B hoist, 20. Also based on the following aggregate additional feet of tube actually required for type C hoists, as per paragraph 31 of the specification: For 12-inch, 101.5 feet; for 10-inch, 14.5 feet.

^b With 18 feet of tube.

^c Since the preparation of the specifications it has been decided to use only the all-metallic carriers for the type C hoists. The prices for the flexible-bottom carriers have therefore not been considered in computing the aggregates of the bids.

^d Do not give full assent to paragraph 17 of specifications.

^e Alternative proposal submitted involving deductions contingent upon enforcement of claims of holders of patents.

MATERIALS AND LABOR FOR ENGINEER DEPARTMENT.

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Abstract of proposals received by Lieut. Col. Frederic V. Abbot, Corps of Engineers, and opened December 31, 1908, for furnishing and delivering powder hoists—Continued.

Bidder.	10-inch.								Total amount involved in bid.	
	Type A.			Type C.						
	For each hoist, without chains and carriers.	Carriers, each.	Chains, per foot.	For each hoist, with 12 feet of tube.	Additional length of tube, per foot.	All metallic carrier.	Flexible - bottom carrier.			
(8) Detroit Hoist and Machine Co.:										
Unit prices bid.....	\$2,750.00	\$52.50	\$4.00	\$2,600.00	\$195.00	\$135.00	\$198.00	.....	\$214,450.00
Total involved ^a	46,750.00	8,925.00	6,800.00	39,000.00	2,827.50	2,025.00	.....		
(9) Modern Steel Structural Co.:										
Unit prices bid.....	1,078.00	28.40	2.10	1,172.00	19.50	32.20	36.30	.....	
Total involved ^a	18,326.00	4,828.00	3,570.00	17,580.00	282.75	483.00	.....		87,997.40
(10) Atlanta Machine Works:										
Unit prices bid.....	975.00	22.50	1.40	712.00	12.00	55.00	55.00	.....	
Total involved ^a	16,575.00	3,825.00	2,380.00	10,680.00	174.00	825.00	.....		63,141.00
(11) Cleveland Crane and Engineering Co.:										
Unit prices bid.....	893.00	30.00	2.20	^b 950.00	25.00	150.00	125.00	.....	
Total involved ^a	15,181.00	5,100.00	3,740.00	14,250.00	362.50	2,250.00	.....		80,702.00
(12) Holisting Machinery Co.:										
Unit prices bid.....	870.00	40.00	1.48	1,309.00	41.00	92.60	70.00	.....	
Total involved ^a	14,790.00	6,800.00	2,516.00	19,635.00	594.50	1,389.00	.....		92,624.20

^a Total involved in each bid, based on the numbers given in the specifications, as follows: 12-inch hoists, type A, 2; type B, 7; type C, 22. 10-inch hoists, type A, 17; type C, 15. Chain for each type A or B hoist, 100 feet. Carriers for each type A hoist, 10. Carriers for each type B hoist, 20. Also based on the following aggregate additional feet of tube actually required for type C hoists, as per paragraph 31 of the specifications: For 12-inch, 101.5 feet; for 10-inch, 14.5 feet.

^b With 18 feet of tube.

PORTLAND, MAINE, DISTRICT.

[Officer: Lieut. Col. George A. Zinn, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for ledge excavation and dredging, Penobscot River, Maine, July 31, 1908.

No.	Bidder.	Lump sum.
^a 1	Eastern Dredging Co., Boston, Mass.....	\$124,900
2	Johnston & Virden, Lewes, Del.....	134,000

^a Contract made with Eastern Dredging Co.

Abstract of proposals for rock excavation at Lovejoys Narrows, Kennebec River, Maine, May 8, 1909.

No.	Bidder.	Price per cubic yard.	Amount.
^a 1	Eastern Dredging Co., Boston, Mass.....	\$19.30	\$57,784.30
2	Frank W. Carlton, Bath, Me.....	21.00	62,874.00
3	Johnston & Virden, Lewes, Del.....	20.30	60,778.20

^a Contract made with Eastern Dredging Co.

Abstract of proposals for dredging in Union River, Maine, June 4, 1909.

No.	Bidder.	Price per cubic yard.		Amount.
		At mouth, 13,500 cubic yards.	At Ellsworth, 46,500 cubic yards.	
1	P. O. Riorden Dredging Co., Charlestown, Mass.	32 $\frac{1}{2}$	34 $\frac{1}{2}$	\$20,505
<i>a</i> 2	Philip H. Doyen, South Portland, Me.	17 $\frac{1}{2}$	24 $\frac{1}{2}$	13,755
3	John H. Gerrish, Boston, Mass.	22.7	24.7	14,550

a Contract made with Phillip H. Doyen.

WRECK.

Abstract of proposals for removing wreck of schooner Annie L. Henderson, Penobscot River, at Bangor, Me., October 14, 1908.

No.	Bidder.	Amount.
1	Rowe Brothers Co., Richmond, Me.	\$2,495.00
2	Philip H. Doyen, South Portland, Me.	1,290.00
<i>a</i> 3	James F. Spellman & Sons, Bangor, Me.	937.50

a Contract made with James F. Spellman & Sons.

BOSTON, MASSACHUSETTS, DISTRICT.

[Officer: Lieut. Col. Edw. Burr.]

FORTIFICATIONS.

Building riprap sea wall at Fort Heath, Winthrop, Mass., opened August 26, 1908.

No.	Name and address of bidder.	Price bid per ton of 2,000 pounds for stone in place in riprap, including stone filling and paving.	Price bid per cubic yard for excavation.	Price bid per cubic yard for fill.
1	John Cashman, Quincy, Mass.	\$2.90	\$0.50	\$0.50
2	Thomas Fitz Gibbon, Beverly, Mass.	2.69	.20	.30
3	William L. Miller, Boston, Mass.	2.74	.90	.90
4	Antony Cefalo, Boston, Mass.	6.00	1.00	1.00
5	Lawler Bros., Boston, Mass.	2.40	2.00	1.00
6	W. H. Ellis, Boston, Mass.	3.59	1.00	.98
7	Graham Construction Co., Boston, Mass.	3.47	.60	.95
8	Michael McDonough, Swampscott, Mass.	2.90	1.00	1.50

Contract made with Lawler Brothers.

Electrical machinery, cable, rails, trolley and track material, etc., at Fort Mills, P. I., opened August 31, 1908.

No.	Name and address of bidder.	Class 1.—Machinery.	Class 2.—Wire and cable.	Class 3.—Trolley material.	Class 4.—Line material.	Class 5.—Rails and track material.
1	General Electric Co., Schenectady, N. Y.	{ \$7,606.00 a 765.00	}\$1,747.50	\$988.15	-----	-----
2	Northern Electric Manufacturing Co., Madison, Wis.	1,550.00	-----	-----	-----	-----
3	Western Electric Co., Boston, Mass.	{ a 1,013.00	-----	1,138.416	\$218.74	-----
4	Westinghouse Electric and Manufacturing Co., Boston, Mass.	{ 8,797.00 a 2,277.30	-----	933.85	205.36	-----
5	Electric Service Supplies Co., Philadelphia, Pa.	-----	3,072.51	-----	275.456	-----
6	United States Steel Products Export Co., New York, N. Y.	{----- 5,334.00	2,854.95 a 2,929.22	----- a 2,943.92	-----	\$9,160.05 a 10,198.85 a 10,473.30
7	G. & W. Manufacturing Co., New York, N. Y.	-----	818.39	-----	-----	-----
8	Standard Underground Cable Co., Pittsburg, Pa.	-----	2,986.15	-----	-----	-----
9	H. W. Johns-Manville Co., New York, N. Y.	-----	-----	995.677	-----	-----
10	Elmer P. Morris Co., New York, N. Y.	-----	-----	884.25	320.40	-----
11	Berry & Aikins, Philadelphia, Pa.	-----	-----	-----	-----	11,262.54
12	Pennsylvania Steel Co., Boston, Mass.	-----	-----	-----	-----	9,241.975

a Alternate proposal.

Contracts awarded as follows:

Class 1.—Machinery: General Electric Company.

Class 2.—Wire and cable: Standard Underground Cable Company.

Class 3.—Trolley material: Elmer P. Morris Company.

Class 4.—Line material: Westinghouse Electric and Manufacturing Company.

Class 5.—Rails and track material: United States Steel Products Export Company.

Wattmeters for engineering districts in United States, opened August 19, 1908.

Volts.	Amperes.	No. 1.—General Electric Co.		No. 2.—Duncan Electric Manufacturing Co.		No. 3.—Sangamo Electric Co. <i>a</i>	
		Front connection.	Back connection, additional.	Front connection.	Back connection, additional.	Front connection.	Back connection, additional.
125.	50	\$33.60	\$4.50	\$22.50	\$2.50	\$17.20	\$16.00
125.	75	39.90	4.00	31.50	2.50	20.00	16.00
125.	100	45.75	4.00	36.00	3.00	24.00	16.00
125.	150	57.00	4.00	45.00	3.00	28.00	16.00
125.	200	-----	-----	49.50	-----	32.00	16.00
125.	300	70.50	3.00	58.50	-----	36.00	16.00
125.	450	-----	-----	72.00	-----	42.00	16.00
125.	600	97.50	3.00	85.50	-----	48.00	16.00
250.	200	-----	-----	60.75	-----	36.00	16.00
250.	300	79.50	4.00	67.50	-----	40.00	16.00

a Not in accordance with specifications.

Contract awarded the General Electric Company.

Electrical junction boxes and cable, opened October 8, 1908.

No.	Name and address of bidder.	Junction boxes.			Cable.
		Type A (each).	Type B (each).	Total.	
1	National Electrical Supply Co., Washington, D. C.	\$29.50	\$44.00	\$3,697.50	.....
2	Hoisting Machinery Co., New York, N. Y.	45.00	60.00	5,505.00	.....
3	Waterbury Co., New York, N. Y.			.....	\$23,613.10
4	G. & W. Manufacturing Co., New York, N. Y.	13.50	14.50	1,585.00	.....
5	General Electric Co., Schenectady, N. Y.	30.50	37.50	3,671.00	17,307.45
6	Safety Insulated Wire and Cable Co., New York, N. Y.			.....	23,301.70
7	Simplex Electrical Co., Boston, Mass.			.....	19,678.68
8	Standard Underground Cable Co., Pittsburg, Pa.	57.00	75.00	6,954.00	20,251.23
9	Western Electric Co., Boston, Mass.	28.00	42.00	3,514.00	.....

Contracts awarded as follows: For junction boxes, Western Electric Company; for cable, General Electric Company.

Cable, opened April 26, 1909.

No.	Name and address of bidder.	Price bid.
1	The Simplex Electrical Co., 110 State street, Boston, Mass.	\$54,996.58
2	The Safety Insulated Wire and Cable Co., 114 Liberty street, New York.	55,716.75
3	Standard Underground Cable Co., Westinghouse Building, Pittsburg, Pa.	55,781.83
4	Waterbury Co., 80 South street, New York.	56,660.65
5	General Electric Co., 64 State street, Boston, Mass.	56,226.16
6	American Steel and Wire Co., Worcester, Mass.	56,913.78
7	Western Electric Co., 115 Purchase street, Boston, Mass.	61,635.95

Contract awarded The Simplex Electrical Company.

Cable, opened June 14, 1909.

No.	Name and address of bidder.	Price bid.
1	The Simplex Electrical Co., 110 State street, Boston, Mass.	\$6,397.43
2	General Electric Co., Schenectady, N. Y.	6,128.03
3	Standard Underground Cable Co., Pittsburg, Pa.	5,937.25

Contract awarded The Simplex Electrical Company.

Abstract of proposals for engines for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909.

	(1) Ames Iron Works, 85 Liberty street, New York City. ^a			(2) Ball Engine Co., Seattle, Wash. ^b			(3) Buffalo Forge Co., Buffalo, N. Y. ^a		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price.....	\$2,970	\$3,676	\$4,915	\$3,080	\$3,689	\$4,647	\$2,177	\$2,865	\$3,985
Total.....		\$11,561		\$11,416			\$9,027		
Type of engine.....				Ames Automatic (center crank).			Center crank as manufactured by Ball Engine Co.		
Diameter of cylinder.....	13"	15"	17"	13"	15"	17"	13"	15"	17"
Length of stroke.....	12"	14"	16"	12"	14"	16"	12"	14"	16"
Revolutions per minute.....	300	275	250	300	275	250	300	275	250
I. H. P. rating at above speed at 100 pounds steam pressure and $\frac{1}{4}$ cut-off.....	126	180	240	92	135	175	95	145	195
Friction I. H. P.	7	10	14	9	12	15	7.5	12	16
Type of valve (piston or balanced slide valve).....				Balanced slide valve.			Sweet flat balanced valve.		
Diameter of steam pipe.....	4 $\frac{1}{2}$ "	5"	6"	4 $\frac{1}{2}$ "	5"	6"	4"	5"	6"
Diameter of exhaust pipe.....	6"	7"	9"	6"	7"	8"	5"	6"	7"
Diameter of fly wheel.....	61 $\frac{1}{4}$ "	71 $\frac{1}{2}$ "	78"	60"	66"	72"	4' 9"	5' 6"	6' 0"
Face of fly wheel.....	12"	14"	16"	13"	15"	15"	13"	15"	16"
Diameter and length of main bearings.....	5 x 11 $\frac{1}{4}$ "	6 x 13"	7 x 15"	5 x 10"	6 x 11"	6 $\frac{1}{2}$ x 11"	5 x 9 $\frac{3}{4}$ "	6 x 13"	7 x 14 $\frac{1}{2}$ "
Diameter and length of outboard bearings.....	4 $\frac{1}{2}$ x 10"	4 $\frac{1}{2}$ x 11"	5 x 12"	3 $\frac{1}{2}$ x 6"	4 x 6"	5 x 8 $\frac{1}{4}$ "	4 x 12"	4 x 12"	4 x 12"
Diameter and length of crank pin.....	6 x 6"	7 x 7"	8 x 8"	5 x 4"	6 x 5"	6 $\frac{1}{2}$ x 5 $\frac{1}{2}$ "	5 x 4"	6 x 6"	7 x 7"
Diameter and length of crosshead pin.....	3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	4 x 5 $\frac{1}{2}$ "	4 $\frac{1}{2}$ x 6 $\frac{1}{2}$ "	2 $\frac{1}{2}$ x 3 $\frac{1}{2}$ "	3 x 4"	3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	2 $\frac{1}{2}$ x 3"	4 x 4"	5 x 5"
Area of crosshead shoes, each.....				c 84	c 100	c 130 $\frac{1}{2}$		47	69
Diameter of armature shaft.....				44"	55"	6"			
Material of crank shaft.....				As required by generator.			To suit generator.		
Material of crank shaft.....				Open-hearth forged steel.			Forged open-hearth steel.		
Material of connecting rod.....				Open-hearth forged steel.			Forged open-hearth steel.		
Material of piston rod.....				Open-hearth forged steel.			Forged open-hearth steel.		
Material of crosshead shoes.....				Cast iron, babbitt lined.			Open-hearth forged steel.		
Material of crank-pin boxes.....				Cast steel, babbitt lined.			Open-hearth forged steel.		
Material of crosshead.....				Cast steel.			Bronze.		
Make of cylinder lubricator.....				Detroit.			Cast steel.		
Net weight of fly wheel (pounds).....	1,350	2,025	3,200	1,550	2,000	2,875	1,650	2,850	3,400
Net weight of heaviest part (named) (pounds).....				Frame and cylinder.			Detroit.		
Total net weight with extension bedplate and outboard pedestal (pounds).....	3,500	5,000	7,500	2,600	3,800	4,800	2,400	3,500	4,200
Weight of dry steam per I. H. P. hour rated load (pounds).....	9,850	15,300	22,850	12,600	16,900	23,600	10,500	15,500	22,000
Weight of dry steam per I. H. P. hour $\frac{1}{2}$ rated load (pounds).....	29 $\frac{1}{4}$	28	27 $\frac{1}{2}$		$\frac{1}{4}$ cut-off.		31	30	29
	32 $\frac{1}{2}$	30	28 $\frac{1}{2}$	29 $\frac{1}{2}$	29 $\frac{1}{4}$	29	36	34	33
				34 $\frac{1}{2}$	34	34			

^a No evidence filed of authority of signer to bind principal.

^b Guaranty not in proper form. The company itself is guarantor for its suboffice. This bidder also submits an alternative proposal, total \$10,787 for side crank engine not in accordance with specifications (see par. 19).

^c Square inches.

Abstract of proposals for engines for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

							(6) A. D. Granger Co., 90 West street, New York, N. Y. ^b							
	(4) Erie City Iron Works, Erie, Pa. ^a			(5) Erie Manufacturing and Supply Co., Erie, Pa. ^b			Straight bid.			Alternative.				
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.		
Price.....	\$2,320	\$3,040	\$4,111	\$3,000	\$3,600	\$4,600	\$2,230	\$3,190	\$3,970	\$2,790	\$3,620	\$4,730		
Total.....		\$9,471			\$11,200			\$9,390			\$11,140			
Type of engine.....														
Diameter of cylinder.....	13"	15"	17"	13"	15"	17"	13"	15"	17"	13"	15"	17"		
Length of stroke.....	12"	14"	16"	12"	14"	16"	12"	14"	16"	12"	14"	16"		
Revolutions per minute.....	300	275	250	300	275	250	300	275	250	300	275	250		
I. H. P. rating at above speed at 100 pounds steam pressure and $\frac{1}{2}$ cut-off.....	110	165	225	120	170	225	120	169	229	120	169	229		
Friction I. H. P.....	c 7	c 7	c 7	{ Maximum.	5	7	10	{ 8 $\frac{1}{2}$	11 $\frac{1}{2}$	14 $\frac{1}{2}$	{ 8 $\frac{1}{2}$	11 $\frac{1}{2}$	14 $\frac{1}{2}$	
Type of valve (piston or balanced slide valve).....														
Diameter of steam pipe.....	4 $\frac{1}{2}$ "	5"	6"	4"	5"	6"	4"	5"	6"	4"	5"	6"		
Diameter of exhaust pipe.....	5"	6"	8"	6"	7"	8"	5"	6"	7"	5"	6"	7"		
Diameter of fly wheel.....	54"	60"	72"	54"	60"	66"	46"	52"	64"	52"	60"	66"		
Face of fly wheel.....	12 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	13"	15"	15"	10 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "		
Diameter and length of main bearings.....	4 $\frac{1}{2}$ x 11"	5 $\frac{1}{2}$ x 13"	7 x 15"	{ Each.	5 $\frac{1}{2}$ x 9"	6 x 10 $\frac{1}{2}$ "	7 $\frac{1}{2}$ x 12"	{ 4 x 7 $\frac{1}{2}$ "	5 x 9	6 x 10	{ 5 x 9	6 x 10 $\frac{1}{2}$ "	7 x 12"	
Diameter and length of outboard bearings.....	4 $\frac{1}{2}$ x 10"	4 $\frac{1}{2}$ x 10"	5 x 11"		4 x 8"	5 x 10"	6 x 12"		5 x 9"	5 $\frac{1}{2}$ x 10"		4 x 9"	5 x 10 $\frac{1}{2}$ "	
Diameter and length of crank pin.....	5 $\frac{1}{2}$ x 4"	5 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	7 $\frac{1}{2}$ x 6"	{ 5 $\frac{1}{2}$ x 6"	6 $\frac{1}{2}$ x 5 $\frac{1}{2}$ "	7 $\frac{1}{2}$ x 5 $\frac{1}{2}$ "	4 $\frac{1}{2}$ x 4"	5 x 5"	6 x 5 $\frac{1}{2}$ "	5 x 5"	6 x 5 $\frac{1}{2}$ "	{ 5 x 5"	6 x 5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ x 6 $\frac{1}{2}$ "
Diameter and length of crosshead pin.....	3 $\frac{3}{4}$ x 4"	4 x 4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ x 5 $\frac{1}{2}$ "		3 $\frac{1}{2}$ x 4"	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	5 x 5 $\frac{1}{2}$ "	2 $\frac{1}{2}$ x 3"	3 x 3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ x 4"	3 x 3 $\frac{1}{2}$ "		4 x 5"	4 $\frac{1}{2}$ x 5"
Area of crosshead shoes, each.....	7 x 13"	8 x 15"	9 $\frac{1}{2}$ x 17"	{ To suit generator.	d 90	d 126	d 168	{ 36"	61"	66"	{ 61"	66"	105"	
Diameter of armature shaft.....														
Material of crank shaft.....				Steel forging.			Per drawings of generator.	To suit generators purchased.			To suit generators purchased.			
Material of connecting rod.....				Steel forging.			Forged steel.	Forged steel.			Forged steel.			
Material of piston rod.....				Steel.			Forged steel.	Open-hearth steel.			Open-hearth steel.			
Material of crosshead shoes.....				Cast iron.	{ Cast steel	Cast steel	Cast steel	{ Lumen or equal quality metal.			{ Lumen or equal quality metal.			
Material of crank-pin boxes.....						spot babbited.	spot babbited.							
Material of crosshead.....				Cast iron, babbitted.	{ Cast-iron babbitted.	babbitted.	babbitted.	{ Genuine babbitt metal with wedge adjustment.			{ Genuine babbitt metal with wedge adjustment.			
Make of cylinder lubricator.....									Cast iron with steel pin.			Cast iron with steel pin.		
Net weight of fly wheel (pounds).....	2,025	2,920	4,500	{ Without governor.	1,270	1,500	2,300	{ Detroit.			{ Detroit.			
									2,610	2,800	{ Detroit.	2,000	2,800	
													3,900	

Net weight of heaviest part (named) (pounds).....	{	Bed. 2,735	Bed. 3,950	Bed. 5,875	Frame and cylinder complete, less base, shaft, pedestal, wheel fittings. 5,000 6,600 9,000	Bed. 2,530	Bed. 3,520	Bed. 5,200	Bed. 2,530	Bed. 3,520	Bed. 5,200
Total net weight with extension bedplate and out- board pedestal (pounds).....	12,300	16,400	23,500	11,000	16,000	23,000	9,000	13,000	16,500	11,300	16,350
Weight of dry steam per I. H. P. hour rated load (pounds).....	31	31	31	32	31	31	31	30	29 $\frac{1}{2}$	31	30
Weight of dry steam per I. H. P. hour $\frac{1}{2}$ rated load (pounds).....	34	34	34	38	37	36	34 $\frac{1}{2}$	33 $\frac{1}{2}$	32 $\frac{1}{2}$	34 $\frac{1}{2}$	33 $\frac{1}{2}$

a No evidence filed of authority of signer to bind principal. Authority of attorney to sign for surety company not cited in guaranty.

b No evidence filed of authority of signer to bind principal.

c Per cent.

d Square inches.

Abstract of proposals for engines for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

	(7) Hallidie Machinery Co., Seattle, Wash. ^a			(8) A. L. Ide & Sons, 90 West street, New York City. ^b					
				Straight bid.			Alternative. ^c		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price.....	\$2,709	\$3,662.75	\$4,134.45	\$2,699	\$3,406	\$4,326	\$2,699	\$3,406	\$4,326
Total.....		\$10,506.20			\$10,431			\$10,431	
Type of engine.....	{ McEwen, simple, single valve, center crank, automatic.			Center crank.			Side crank.		
Diameter of cylinder.....	13"	15"	17"	13"	15"	17"	13"	15"	17"
Length of stroke.....	12"	14"	16"	12"	14"	16"	12"	14"	16"
Revolutions per minute.....	300	265	250	300	275	250	300	275	250
I. H. P. rating at above speed at 100 pounds steam pressure and $\frac{1}{4}$ cut off.....	100	165	210	90	133	180	90	133	180
Friction I. H. P.....	5.5	9	11.5	6	9	15	6	9	15
Type of valve (piston or balanced slide valve).....	Balanced slide valve.			Piston.			Piston.		
Diameter of steam pipe.....	43"	5"	6"	43"	5"	6"	43"	5"	6"
Diameter of exhaust pipe.....	6"	6"	7"	41"	6"	7"	43"	6"	7"
Diameter of fly wheel.....	49"	55"	64"	60"	66"	72"	60"	66"	72"
Face of fly wheel.....	11"	12 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	16"	12 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	16"
Diameter and length of main bearings.....	4 $\frac{3}{8}$ x 9 $\frac{1}{2}$ "	5 $\frac{1}{4}$ x 11"	6 x 12 $\frac{3}{4}$ "	5 $\frac{1}{2}$ x 9 $\frac{1}{4}$ "	6 $\frac{1}{2}$ x 10 $\frac{1}{2}$ "	7 x 12 $\frac{1}{2}$ "	5 $\frac{1}{2}$ x 12"	7 x 15"	8 x 18"
Diameter and length of outboard bearings.....	3 $\frac{1}{2}$ x 9"	5 x 12"	5 x 12"	5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ "	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "	7 x 10 $\frac{1}{2}$ "	5 x 12"	6 x 14"	7 x 14"
Diameter and length of crank pin.....	4 $\frac{3}{8}$ x 4 $\frac{1}{2}$ "	5 $\frac{1}{4}$ x 5 $\frac{1}{2}$ "	6 x 6 $\frac{1}{2}$ "	3 $\frac{3}{4}$ x 3 $\frac{1}{2}$ "	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	5 $\frac{1}{2}$ x 5"	3 $\frac{3}{4}$ x 3 $\frac{1}{2}$ "	5 x 4"	6 x 5"
Diameter and length of crosshead pin.....	2 $\frac{1}{2}$ x 3 $\frac{1}{2}$ "	5 x 4 $\frac{1}{2}$ "	3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	2 $\frac{1}{2}$ x 3 $\frac{1}{2}$ "	3 x 3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ "	2 $\frac{1}{4}$ x 3 $\frac{1}{2}$ "	3 $\frac{3}{4}$ x 3 $\frac{1}{2}$ "	4 $\frac{3}{8}$ x 4 $\frac{1}{2}$ "
Area of crosshead shoes, each.....	d 72"	d 98"	d 120"	d 61 $\frac{1}{2}$ "	d 87 $\frac{1}{2}$ "	d 121 $\frac{1}{2}$ "	d 70"	d 87"	d 122"
Diameter of armature shaft.....	4 $\frac{3}{8}$ "	5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	To suit generator mfr.'s standard.			To suit generator mfr.'s standard.		
Material of crank shaft.....	Open-hearth steel.			Steel.			Steel.		
Material of connecting rod.....	Open-hearth steel.			Forged steel.			Forged steel.		
Material of piston rod.....	Best machinery steel.			O. H. machinery steel.			{ Special analysis O. H. machinery steel.		
Material of crosshead shoes.....	{ Cast iron, lined with genuine hard babbitt.			Bronze.			Bronze.		
Material of crank-pin boxes.....	{ Cast iron, lined with genuine hard babbitt.			Cast steel.			{ Cast steel, babbittted with genuine babbitt.		
Material of crosshead.....	Cast steel.			Semisteel.			Semisteel.		
Make of cylinder lubricator.....	{ "Trojan," by Wm. Powell Co., or "Detroit," by Detroit Lub. Co.			Rochester force feed.			Hart or Rochester force feed.		

Weight of fly wheel (pounds).....	1,650	2,250	3,000	4,390	5,745	7,635	2,325	3,646	6,174	
Weight of heaviest part named (pounds)	Bed and cylinder.		8,590				Engine frame.		Governor pulley.	
Total net weight with extension bedplate and outboard pedestal (pounds).....	4,500	6,450	8,590				2,744	3,646	6,617	
Weight of dry steam per I. H. P. hour, rated load (pounds).....	12,000	16,900	20,600	11,000	14,500	22,000	11,000	15,400	26,400	
Weight of dry steam per I. H. P. hour, $\frac{1}{2}$ rated load (pounds).....	30	29	28.8	30	29	29	30	29	29	
	33	32	31.8	32.5	31.5	31.5	32.5	31.5	31.5	

a This company bids, on engines, \$10,506.20; on generators, \$8,372.45. Submits also combined bids for furnishing both, as follows: Alternative bid No. 1, \$18,131; alternative bid No. 2, \$17,895.46.

b No evidence filed of authority of signer to bind principal.

c This bid is for side crank engine—not in accordance with specifications. (See par. 19.)

d Square inches.

Abstract of proposals for engines for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

	(9) Phoenix Iron Works Co., Meadville, Pa. ^a			¶ (10) Skinner Engine Co., Erie, Pa. ^b		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price	\$2,850	\$3,850	\$5,000	\$2,658	\$3,202	\$3,774
Total	\$11,700			\$9,634		
Type of engine						
Diameter of cylinder	13"	15"	17"	13"	15"	17"
Length of stroke	12"	14"	16"	12"	14"	16"
Revolutions per minute	300	275	250	300	275	250
I. H. P. rating at above speed at 100 pounds steam pressure and $\frac{1}{4}$ cut off	100	170	25	121	172	229
Friction I. H. P.	$\frac{e}{80}$	$\frac{e120}{d8}$	160	9	13	18
Type of valve (piston or balanced slide valve)						
Diameter of steam pipe	$\frac{4\frac{1}{2}}{6}$ "	5"	6"	4"	5"	5"
Diameter of exhaust pipe	6"	7"	8"	5"	6"	6"
Diameter of fly wheel	66"	72"	76"	54"	60"	66"
Face of fly wheel	10"	12"	14"	11"	12"	15"
Diameter and length of main bearings	$5 \times 10"$	$6 \times 12"$	$7 \times 14"$	$5 \times 9"$	$6 \times 9"$	$6 \times 10\frac{3}{4}"$
Diameter and length of outboard bearings	$4 \times 10\frac{1}{4}"$	$4\frac{1}{2} \times 10\frac{1}{4}"$	$5 \times 12"$	$3\frac{1}{2} \times 6"$	$3\frac{1}{2} \times 6"$	$5 \times 10"$
Diameter and length of crank pin	$5 \times 4\frac{1}{2}"$	$6 \times 6\frac{1}{2}"$	$7 \times 6\frac{1}{2}"$	$5 \times 3\frac{1}{4}"$	$6 \times 4"$	$6\frac{1}{2} \times 4\frac{1}{2}"$
Diameter and length of crosshead pin	$3\frac{1}{4} \times 5\frac{1}{4}"$	$4 \times 6\frac{1}{2}"$	$5 \times 6\frac{1}{2}"$	$3 \times 3\frac{1}{4}"$	$3\frac{1}{2} \times 3\frac{1}{4}"$	$3\frac{1}{2} \times 4\frac{1}{2}"$
Area of crosshead shoes, each	$e 97$	$e 142$	$e 192$	$e 52$	$e 54$	$e 90$
Diameter of armature shaft						
Material of crank shaft						
Material of connecting rod						
Material of piston rod						
Material of crosshead shoes						
Material of crank-pin boxes						
Material of crosshead						
Make of cylinder lubricator						
Net weight of fly wheel (pounds)						
Net weight of heaviest part named (pounds)						
Total net weight with extension bedplate and outboard pedestal (pounds)						
Weight of dry steam per I. H. P. hour, rated load (pounds)	30	30	30	31	$29\frac{1}{2}$	29
Weight of dry steam per I. H. P. hour, $\frac{1}{2}$ rated load (pounds)	38	38	38	34	32	$31\frac{1}{2}$
Malleable iron, babbitted with No. 1						
Cast steel.						
Detroit.						
Bed.	1,650	2,250	2,800	2,000	2,600	3,300
Bed.	1,900	3,300	4,500	2,000	3,000	3,300
Bed.	11,200	16,400	22,600	11,000	15,000	17,500

^a Authority of attorney to sign for surety company not cited in guaranty.

^b No evidence filed of authority of signer to bind principal.

Contract awarded Buffalo Forge Co., the lowest bidder.

^c Indicated horsepower.

^d Per cent.

^e Square inches.

of proposals for boilers for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909.

	(1) Mosher Water Tube Boiler Co., 30 Church street, New York City. ^a			(2) E. Keeler Co., 240 West street, Williamsport, Pa. ^b		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Including installation.....	\$5,527	\$6,605	\$8,554	\$4,788	\$5,502	\$7,088
Not including installation.....	\$3,842	\$4,411	\$5,682	\$3,798	\$4,292	\$6,960
Total with installation.....		\$20,686			\$17,378	
Total without installation.....		\$13,935			\$15,050	
Type of boiler.....	Horizontal water-tube boiler. 30 pounds water evaporated per hour from 100° to 70 pounds pres- sure.			Horizontal water tube.		
Manufacturer's H. P. rating.....				105	152	200
Total heating surface...sq. ft.....	1,000	1,500	2,000	1,053	1,526	2,008
Tube heating surface...sq. ft.....	980	1,476	1,968	955	1,305	1,848
Grate surface.....sq. ft.....	28.75	33.25	43.75	30	38.5	50.75
Depth of grate.....sq. ft.....	5' 0"	7' 0"	7' 0"	6' 0"	7' 0"	7' 0"
Width of grate.....sq. ft.....	5' 9"	4' 9"	6' 3"	5' 0"	5' 6"	7' 3"
Number of tubes vertically.....	10	10	10	6	7	7
Number of tubes horizontally.....	17	12	16,17	9,10	10,11	14
Diameter of tubes.....	2 $\frac{1}{2}$ "	3"	3"	4"	4"	4"
Length of tubes.....	8' 6"	15' 8"	15' 8"	16' 0"	18' 0"	18' 0"
Headers, inclined or vertical?.....	Mild steel.			Inclined.		
Material of tubes.....	Mild steel.			Lap-welded steel.		
Material of headers.....				Flange steel.		
Material of manhole and man- hole plates and clamps.....	Pressed steel and cast steel.			Pressed steel plates, cast-iron yokes.		
Diameter of steam drum.....	36"	48"	48"	36"	42"	48"
Length of steam drum, in- cluding heads.....	7' 4 $\frac{1}{2}$ "	6' 13 $\frac{1}{2}$ "	8' 11 $\frac{1}{2}$ "	20' 3"	22' 6 $\frac{1}{2}$ "	22' 6 $\frac{1}{2}$ "
Thickness of drum plates.....	3 $\frac{1}{8}$ ", 2 $\frac{1}{2}$ "	1 $\frac{7}{8}$ ", 1 $\frac{1}{8}$ "	1 $\frac{7}{8}$ ", 1 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	7 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "
Thickness of header plates (if of plate steel).....	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ ", 8 $\frac{1}{8}$ "	1 $\frac{1}{2}$ ", 8 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
Make and type of water column.....	Reliance.			Wright.		
Make and type of steam gauge.....	Single spring "Ashton."			Consolidated.		
Type of grate.....	Cast-iron Tupper pattern for all sizes.			Tupper.		
Size of steam nozzle.....	4"	5"	8"	5"	6"	7"
Size of safety valves.....	1-2 $\frac{1}{2}$ "	1-3"	2-3"	d 1-3 $\frac{1}{2}$ "	1-4"	2-3 $\frac{1}{2}$ "
Make of oil burners.....	Schutte & Koerting or Lassoe Lovekin.			W. N. Best.		
Number of oil burners for each furnace.....	1	1	2	1	1	1
Make of oil pump set.....	Warren Duplex.			International Steam Pump Co.		
Size of oil pumps.....	2x1 $\frac{1}{4}$ x2 $\frac{3}{4}$ "	3x2x3"	3x2x3"	d 2x1 $\frac{1}{4}$ x2 $\frac{3}{4}$ "	d 2x1 $\frac{1}{4}$ x2 $\frac{3}{4}$ "	d 3x2x3"
Height and width of largest piece of boiler.....	7' 5" x 3' 6"	6' 2" x 5' 9"	8' 2" x 5' 9"	7' x 5' 8"	8' x 6' 2"	8' 6" x 8' 2"
Total shipping weight.....lbs.....	30,000	40,000	54,000	23,500	29,000	38,900
Weight of largest piece.....lbs.....	13,000	18,000	24,000	14,422	17,783	23,421
Number of fire brick for two boilers.....	4,000	7,800	8,000	4,600	5,600	7,485
Make of fire brick.....	Mauer's No. 1 best grade or equal western brick.			To be approved.		
Number of red brick for two boilers.....	6,800	23,000	25,000	21,600	24,800	32,800
Height of boiler.....				13' 6"	14' 3"	14' 10"
Width of battery.....				14' 10"	15' 10"	19' 4"
Length of foundation.....				19' 3"	21' 6"	21' 6"

^a No evidence filed of authority of signers to bind principal.

^b No evidence filed of authority of signer to bind principal.

^c Should be 3,095 square feet.

^d See letter of May 11, 1909.

Abstract of proposals for boilers for Fort Stevens, Oreg., Fort Casey, Wash., and Scott, Cal., received in response to advertisement dated March 26, 1909, and opened United States engineer office, Boston, Mass., April 26, 1909—Continued.

	(3) Heine Safety Boiler Co., St. Louis, Mo.			(4) The Babcock & Wilcox Co., 10 Post - Office square, Boston, Mass. ^a		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Including installation.....	\$5,750	\$6,600	\$8,885	\$6,458	\$8,170	\$9,959
Not including installation.....	\$4,765	\$5,635	\$7,260	\$4,874	\$6,157	\$7,797
Total with installation.....		\$21,235			\$24,587	
Total without installation.....		\$17,660			\$18,828	
Type of boiler.....			Heine.	Babcock & Wilcox.		
Manufacturer's H. P. rating.....	100	150	200	102	150	203
Total heating surface...sq. ft.....	1,016	1,564	2,061	1,018	1,502	2,036
Tube heating surface...sq. ft.....	873	1,381	1,846	943	1,415	1,886
Grate surface.....sq. ft.....	26.50	39	51	26.8	39	51.3
Depth of grate.....	6' 0"	7' 0"	7' 0"	7' 0"	7' 0"	7' 0"
Width of grate.....	4' 5"	5' 7"	7' 4"	3' 10"	5' 7"	7' 4"
Number of tubes vertically.....	8	10	11	9	9	9
Number of tubes horizontally.....	8	10	12	6	9	12
Diameter of tubes.....	3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	4"	4"	4"
Length of tubes.....	16' 0"	16' 0"	16' 0"	16' 0"	16' 0"	16' 0"
Headers, inclined or vertical?.....			Inclined.	Vertical.		
Material of tubes.....			Mild steel.	{ Charcoal iron or hot-finished seam- less O. H. steel or as specified.		
Material of headers.....			Flange steel.	{ Cast iron.		
Material of manhole and man-hole plates and clamps.....			Pressed steel.	Forged steel or cast iron.		
Diameter of steam drum.....	36"	42"	48"	1-36"	1-42"	2-36"
Length of steam drum, in- cluding heads.....	19' 4 $\frac{1}{2}$ "	19' 6 $\frac{1}{2}$ "	19' 9"	19' 6"	19' 8"	19' 6"
Thickness of drum plates.....	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{8}$ "
Thickness of header plates (if of plate steel).....	$\frac{1}{2}$ "	$\frac{1}{2}$ "	$\frac{1}{2}$ "			
Make and type of water column.....			Reliance.	Reliance or equal.		
Make and type of steam gauge.....			Standard.	Ashcroft or equal.		
Type of grate.....			Herringbone stationary.	B. & W. Co. Standard.		
Size of steam nozzle.....	4"	5"	6"	5x11"	5x11"	8x15"
Size of safety valves.....	3"	3 $\frac{1}{2}$ "	4"	1-3 $\frac{1}{2}$ "	1-4"	2-3 $\frac{1}{2}$ "
Make of oil burners.....			Billow type National Supply Co.	Hammel.		
Number of oil burners for each furnace.....	2	2	3	1	2	2
Make of oil-pump set.....			National Supply Co., Snow, Gard- ner, or Worthington.	Snow.		
Size of oil pumps.....		4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ "		4 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"
Height and width of largest piece of boiler.....	6' 10 $\frac{1}{2}$ "x5'	8' 0"x6' 2"	9' 0"x7' 4"	b 36"x19' 6"	b 42"x19' 8"	b 36"x19' 6"
Total shipping weight...lbs.....	55,000	66,000	89,500	26,000	36,400	47,400
Weight of largest piece...lbs.....	13,200	18,500	24,000	c 3 $\frac{1}{2}$	c 4	c 3 $\frac{1}{2}$
Number of fire brick for two boilers.....	4,800	5,100	6,500	6,770	8,140	8,480
Make of fire brick.....		(?)			Carr or equal.	
Number of red brick for two boilers.....	22,000	23,000	30,000	21,400	23,200	28,900
Height of boiler.....	11' 11"	13' 2"	15' 0"			
Width of battery.....	14' 4"	16' 8	19' 8"			
Length of foundation.....	18' 6"	18' 6"	18' 7"			

^a No evidence filed of authority of signer to bind principal. No blueprints and builder's specifications required by paragraph 35 submitted. Certified check for \$3,000 filed with bid in lieu of guaranty.

^b Drums.

^c Tons.

Contract awarded Keeler & Co.

Abstract of proposals for generators for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909.

	(1) Allis-Chalmers Co., Milwaukee, Wis.			(2) Diehl Manufacturing Co., Elizabethport, N. J. ^a			(3) Fort Wayne Electric Works, Fort Wayne, Ind.		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price.....	\$2,015	\$2,345	\$2,845	\$2,190	\$2,806	\$3,248	\$1,773	\$2,159	\$2,766
Total.....		\$7,205			\$8,244			\$6,698 ^b	
Catalogue number of machine.....				F-24	F-27	F-33		Type.	
Poles.....	6	6	6	6	6	8		L.	M.P.L.
K. W.....	50	75	100	50	75	100	50	75	100
Speed.....	300	275	250	300	275	250	300	275	250
Diameter of armature.....	25"	31"	31"	24 $\frac{1}{2}$ "	27"	38"	20"	26"	31"
Length of armature under pole pieces.....	63"	7"	91"	10"	11"	12"	13"	11"	9"
Diameter of commutator.....	17"	21"	21"	18"	19 $\frac{1}{2}$ "	26"	16"	19 $\frac{1}{4}$ "	23 $\frac{3}{4}$ "
Number of commutator bars.....	260	212	164	221	191	264	166	194	160
Number of brushes per stud.....	2	3	3	2	3	3	3	3	3
Number of studs.....	6	6	6	6	6	8	6	6	6
Size of brushes.....	1 $\frac{3}{4}$ x $\frac{3}{8}$ x2 $\frac{1}{2}$ "	1 $\frac{3}{4}$ x $\frac{3}{8}$ x2 $\frac{1}{2}$ "	1 $\frac{3}{4}$ x $\frac{3}{8}$ x2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ x2"	$\frac{5}{8}$ x1 $\frac{1}{2}$ "	$\frac{3}{4}$ x2"	$\frac{3}{4}$ x1 $\frac{1}{2}$ "	$\frac{5}{8}$ x2x2"	$\frac{5}{8}$ x2x2"
Material of pole pieces.....	Laminated steel.			CS.	CS.	CS.	Laminated iron.		
Diameter of shaft in armature.....	6 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	4"	5 $\frac{1}{2}$ "	6"	Maximum.		
Type of rheostat.....	Cutler-Hammer Bulletin No. 32. Embedded resistance type.			C-H. No. 32 R. B.			G. E.	G. E.	G. E.
Hours of continuous 25 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	2	2	2	5	5	5	2	2	
Hours of continuous 50 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	$\frac{1}{2}$	$\frac{1}{2}$	90.5	2	2	2	1	1	1
Efficiency at full load.....	90	90	90.5	91	91 $\frac{1}{2}$	92	91	91	91.5
Efficiency at three-quarter load.....	90	90	90.5	90 $\frac{1}{2}$	91	91 $\frac{1}{2}$	90 $\frac{1}{2}$	91	91.25
Efficiency at one-half load.....	88.5	89	89.2	89	89 $\frac{1}{2}$	90	89	89.5	90
Weight of armature without shaft.....	1,550	Net.	2,950	1,550	1,850	2,800	1,100	2,400	3,250
Weight of machine complete without shaft.....	6,700	Boxed.	10,300	12,400	4,920	5,950	8,020	4,500	7,600
									10,300

^a If item 2 is not withdrawn from award will give reduction of \$390 on combined price of items 1 and 2. No evidence filed of authority of signer to bind principal.

^b Add \$144 for vertically divided frame—\$6,842; 75 K. W. and 100 K. W. machines have poles cast into frame. No flexible brush leads for 50 K. W. machines. Band wires on 75 K. W. machines. Omitting 2-75 K. W. machines bid is increased to \$4,647 with 2-100 K. W. vertically divided frames. No evidence filed of authority of signer to bind principal. Certified check for \$1,000 filed in lieu of guaranty.

Abstract of proposals for generators for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

	(4) General Electric Co., 84 State street, Boston, Mass.								
	Straight bid.			Alternative A.			Alternative B.		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price.....	\$2,172	\$2,490	\$2,983	\$1,740	\$2,063	\$2,516	\$2,017	\$2,532	\$2,959
Total.....		\$7,645 ^a			\$6,319 ^b			\$7,508 ^c	
Catalogue number of machine.....	R. B.	R. B.	R. B.						
Poles.....	6	6	6	6	6	6	6	6	6
K. W.....	50	75	100	50	75	100	50	75	100
Speed.....	300	275	250	300	275	250	300	275	250
Diameter of armature.....	20 ¹ / ₂ "	24"	26"	20 ¹ / ₂ "	24"	26"	24"	31.5"	31.5"
Length of armature under pole pieces.....	12"	12"	13 ¹ / ₂ "	12"	12"	13.5"	9.25"	7.56"	8.5"
Diameter of commutator.....	17"	18"	20"	17"	18"	20"	18"	23.5"	23.5"
Number of commutator bars.....	218	194	166	238	194	166	250	220	190
Number of brushes per stud.....	4	5	5	3	4	4	3	4	4
Number of studs.....	6	6	6	6	6	6	6	6	6
Size of brushes.....	1 ¹ / ₂ x ¹ / ₂ "	1 ¹ / ₂ x ³ / ₈ "	1 ¹ / ₂ x ³ / ₈ "	1 ¹ / ₂ x ¹ / ₂ "	1 ¹ / ₂ x ¹ / ₂ "	1 ¹ / ₂ x ³ / ₈ "	1 ¹ / ₂ x ¹ / ₂ "	1 ¹ / ₂ x ³ / ₈ "	1 ¹ / ₂ x ³ / ₈ "
Material of pole pieces.....	Laminated steel.			Laminated steel.				Cast steel.	
Diameter of shaft in armature.....	4 ¹ / ₂ or 6 ¹ / ₂ "	5 ¹ / ₂ or 7 ¹ / ₂ "	6 or 8 ¹ / ₂ "	4 ¹ / ₂ or 6 ¹ / ₂ "	5 ¹ / ₂ or 7 ¹ / ₂ "	6 or 8 ¹ / ₂ "	4 ¹ / ₂ or 6 ¹ / ₂ "	5 ¹ / ₂ or 7 ¹ / ₂ "	6 or 8 ¹ / ₂ "
Type of rheostat.....	CR-174	CR-174	CR-174	CR-174	CR-174	CR-174	CR-174	CR-174	CR-174
Hours of continuous 25 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	1	1	1	1	1	1	2 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂
Hours of continuous 50 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	¹ / ₂	¹ / ₂	¹ / ₂	¹ / ₂	¹ / ₂	¹ / ₂	³ / ₄	³ / ₄	³ / ₄
Efficiency at full load.....	90	90	90	90	90.5	90.75	90	91	91
Efficiency at three-quarter load.....	90	90	90	90	90.5	90.75	90	90 ² / ₃	91
Efficiency at one-half load.....	88 ¹ / ₂	88 ¹ / ₂	88 ¹ / ₂	88.5	89	89.5	89 ¹ / ₄	89 ² / ₃	90 ¹ / ₂
Weight of armature without shaft.....	1,300	1,900	2,700	1,300	1,900	2,600	1,540	2,630	3,090
Weight of machine complete without shaft.....	3,900	5,500	7,500	3,900	5,500	7,400	6,000	8,800	11,100

^a Add \$620 for cost of tests=\$8,265.

No evidence filed of authority of signer to bind principal.

^b Add \$620 for cost of tests=\$6,939.

Heating based on 250 volts exceeds specifications

Band wires on

armatures.

^c Add \$620 for cost of tests=\$8,128. Band wires on armatures.

Abstract of proposals for generators for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

	(5) Hallidie Machinery Co., Seattle, King County, Wash. ^a			(6) Western Electric Co., 115 Purchase street, Boston, Mass. ^b		
	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.
Price.....	\$2,219.70	\$2,945.00	\$3,207.75	\$1,656	\$2,192	\$2,811
Total.....		\$8,372.45			\$6,659	
Catalogue number of machine.....	{ 252	2,312	368	L-3½ E.	L-5 A.E.	L-5½ E.
Poles.....	10	10	10	6	6	6
K. W.....	50	75	100	50	75	100
Speed.....	300	265	250	300	275	250
Diameter of armature.....	26"	30"	30"	22"	28"	28"
Length of armature under pole pieces.....	7½"	8½"	11½"	6½"	7½"	8½"
Diameter of commutator.....	16½"	22"	22"	18"	22½"	22½"
Number of commutator bars.....	142	234	194	Approximate.		
Number of brushes per stud.....	2	2	2	120	158	158
Number of studs.....	10	10	10	6	6	6
Size of brushes.....	3x2"	1x2"	1x2"	1x1½"	1x1½"	1x1½"
Material of pole pieces.....	Laminated steel.			Laminated sheet steel.		
Diameter of shaft in armature.....	4½"	5½"	6½"	{ c 4"	5½"	6"
Type of rheostat.....	Cutler-Hammer, enameled, type.			{ d 5½"	7½"	8½"
Hours of continuous 25 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	Continuously.			2	2	2
Hours of continuous 50 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	1	1	1	1	1	1
Efficiency at full load.....	90.5	91	91.5	90.7	91.4	92
Efficiency at three-quarter load.....	90	90.5	91	90.6	91.3	92
Efficiency at one-half load.....	89	89.5	90	89.5	90.2	91.8
Weight of armature without shaft.....	1,900	2,500	2,800	1,050	2,300	2,550
Weight of machine complete without shaft.....	{ 4,600	7,300	8,500	4,600	8,600	10,250
					Shipping weight.	
				4,950	9,350	11,250
				Net.		

^a This company bids on engines, \$10,506.20; on generators, \$8,372.45. Submits also combined bids for furnishing both as follows: Alternative bid No. 1, \$18,131; alternative bid No. 2, \$17,895.46.

^b No evidence filed of authority of signer to bind principal. Certified check for \$1,000 filed in lieu of guarantee.

^c Center crank engine.

^d Side crank engine.

Abstract of proposals for generators for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

(7) Westinghouse Electric and Manufacturing Co., 131 State street, Boston, Mass. ^a						(8) Sprague Electric Co., 527 West Thirty-fourth street, New York, N.Y.						
Bid in letter April 26, 1909. ^b			Bid on proposal form. ^c									
Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.	Stevens.	Casey.	Scott.				
Price.....	\$1,732	\$2,192	\$2,797	\$1,630	\$2,062.60	\$2,637	\$1,960	\$2,600	\$3,364			
Total.....	\$6,721		\$6,329.60				\$7,924					
Catalogue number of machine.....	{		Frame No.		Frame No.		S-50		S-75		S-100	
Poles.....	60	80	90	60	80	90	6	6	6	6	6	
K. W.....	6	6	6	6	6	6	50	75	100	100	100	
Speed.....	50	75	100	50	75	100	300	275	250	250	250	
Diameter of armature.....	300	275	250	300	275	250	22 $\frac{1}{2}$ "	22 $\frac{1}{2}$ "	20 $\frac{1}{2}$ "	20 $\frac{1}{2}$ "	29 $\frac{1}{2}$ "	
Length of armature under pole pieces.....	22 $\frac{1}{2}$ "	28"	32"	22 $\frac{1}{2}$ "	28"	32"						
Diameter of commutator.....	7 $\frac{1}{4}$ "	7"	8"	7 $\frac{1}{4}$ "	7"	8"	9 $\frac{1}{2}$ "	10"	11"	10"	11"	
Number of commutator bars.....	16"	19"	19 $\frac{1}{4}$ "	16"	19"	19 $\frac{1}{4}$ "	17"	19"	21	17"	19"	
Number of brushes per stud.....	2	3	4	2	3	4	2	4	4	2	4	
Number of studs.....	6	6	6	6	6	6	6	6	6	6	6	
Size of brushes.....	$\frac{5}{8} \times 1\frac{1}{2}$ "	$\frac{3}{4} \times 1\frac{1}{2}$ "	$\frac{3}{4} \times 1\frac{1}{2}$ "	$\frac{5}{8} \times 1\frac{1}{2}$ "	$\frac{3}{4} \times 1\frac{1}{2}$ "	$\frac{3}{4} \times 1\frac{1}{2}$ "	Laminated steel.	Laminated steel.	Laminated sheet-steel punchings.	$\frac{5}{8} \times 1\frac{1}{2}$ "	$\frac{1}{2} \times 1\frac{1}{8}$ "	$\frac{3}{4} \times 1\frac{1}{2}$ "
Material of pole pieces.....												
Diameter of shaft in armature.....	4 $\frac{1}{2}$ -6 $\frac{1}{4}$ "	5 $\frac{1}{2}$ -7 $\frac{1}{2}$ "	6-8 $\frac{1}{2}$ "	4 $\frac{1}{2}$ -6 $\frac{1}{4}$ "	5 $\frac{1}{2}$ -7 $\frac{1}{2}$ "	6-8 $\frac{1}{2}$ "	Westinghouse switch-board type.	Westinghouse switch-board type.				
Type of rheostat.....										d 4 $\frac{1}{2}$ -6 $\frac{1}{4}$ " 5 $\frac{1}{2}$ -7 $\frac{1}{2}$ " 6-8 $\frac{1}{2}$ "		
Hours of continuous 25 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	2	2	2	2	2	2	On basis of 55° rise of windings.	On basis of 55° rise of windings.	n 3	3	2 $\frac{1}{4}$	
Hours of continuous 50 per cent overload following eight hours normal full load without rise of temperature of windings exceeding 50° C. and commutator 55° C.....	$\frac{3}{4}$	1	1	$\frac{3}{4}$	1	1	On basis of 55° rise of windings.	On basis of 55° rise of windings.	e 1	1	1	
Efficiency at full load.....	90	90.5	90.5	90	91 $\frac{1}{2}$	91	90.0	91.0	91.6	90.0	91.6	
Efficiency at three-quarter load.....	90	90.5	90.5	90	91 $\frac{1}{2}$	91	90.0	90.8	91.6	90.8	91.6	
Efficiency at one-half load.....	88 $\frac{1}{2}$	90	90	88 $\frac{1}{2}$	90 $\frac{1}{2}$	90 $\frac{1}{2}$	88.6	89.7	90.8	89.7	90.8	
Weight of armature without shaft.....	1,100	1,800	2,400	1,100	1,800	2,400	1,120	1,700	2,250	1,120	1,700	
Weight of machine complete without shaft.....	4,400	7,000	9,000	4,400	7,000	9,000	3,600	5,100	6,500	3,600	5,100	

^a Expert labor of three days per machine, required by par. 34 of specifications not included in price.

^b This bid offers delivery at Fort Stevens, 120 days; Fort Casey, 140 days; Fort Scott, 150 days.

^c Heating based on 250 volts exceeds specification requirements by 2°. Contract period, par. 37, specifications, allows 90 days for shipment. Bid proposes delivery 120 days.

^d Any between.

^e Heating based on 250 volts. No wedges nor band wires. Shunt and series coils on same spool. No evidence filed of authority of signer to bind principal.

Contract awarded Western Electric Co.

Abstract of proposals for switchboards for Fort Stevens, Oreg., Fort Casey, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909.

(1) AGUTTER-GRISWOLD COMPANY, SEATTLE, WASH.^a

	Make.	Type.	Total cost.
Ammeters and voltmeters.....	Wagner.....	R. P. M.....	
Wattmeters.....	General Electric Co.....	C. 6 glass.....	
Circuit breakers.....	do.....	C. Form G.....	
Ammeters and voltmeters.....	do.....	R.....	
Wattmeters.....	do.....	C. 6 glass.....	
Circuit breakers.....	do.....	C. Form G.....	

(2) ALLIS-CHALMERS COMPANY, MILWAUKEE, WIS.

Ammeters and voltmeters.....	Westinghouse.....	D.....	
Wattmeters.....	General Electric Co.....	C. 6.....	
Circuit breakers.....	The Cutter Co., I. T. E.....	NX.....	

(3) FORT WAYNE ELECTRIC WORKS, FORT WAYNE, IND.^b

Ammeters and voltmeters.....	General Electric Co.....	D-2.....	
Wattmeters.....	do.....	C-5 Thomson recording c.....	
Circuit breakers.....	do.....	C-Form P.....	

(4) GENERAL ELECTRIC COMPANY, 84 STATE STREET, BOSTON, MASS.^d

Ammeters and voltmeters.....	General Electric Co.....	D. 2.....	
Wattmeters.....	do.....	C. S.....	
Circuit breakers.....	do.....	C. P.....	

(5) H. KRÁNTZ MANUFACTURING COMPANY, BROOKLYN, N. Y.

Ammeters and voltmeters.....	Westinghouse Electric and Manufacturing Co.....	D.....	
Wattmeters.....	Sangamo Electric Co.....	Switchboard.....	
Circuit breakers.....	Condit Electric and Manufacturing Co.....	K.....	
Ammeters and voltmeters.....	General Electric Co.....	D. 2.....	
Wattmeters.....	do.....	C. S.....	
Circuit breakers.....	Cutter Electric and Manufacturing Co.....	NX.....	

(6) MONTGOMERY & CO., 105-107 FULTON STREET-62 ANN STREET, NEW YORK CITY.

Ammeters and voltmeters.....	Westinghouse.....	D.....	
Wattmeters.....	Sangamo.....	Switchboard.....	
Circuit breakers.....	I. T. E.....	NX.....	
Ammeters and voltmeters.....	Westinghouse.....	D.....	
Wattmeters.....	Sangamo.....	Switchboard.....	
Circuit breakers.....	General Electric Co.....	C. Form P.....	

^a No evidence filed of authority of signer to bind principal.

^b No evidence filed of authority of signer to bind principal. Certified check for \$500 filed in lieu of guarantee. Wattmeter to have cast-metal cover. See letter of April 29, 1909.

^c Type C. S. See letter of May 7, 1909.

^d No evidence filed of authority of signer to bind principal.

Abstract of proposals for switchboards for Fort Stevens, Oreg., Fort Casily, Wash., and Fort Scott, Cal., received in response to advertisement dated March 26, 1909, and opened at United States engineer office, Boston, Mass., April 26, 1909—Continued.

(7) TAUNTON-NEW BEDFORD COPPER COMPANY, POST-OFFICE BOX 850, TAUNTON, MASS.^a

	Make.	Type.	Total cost.
Ammeters and voltmeters.	General Electric Co.	D. 2.	
Wattmeters.	do.	C. S.	
Circuit breakers.	Cutter Electric and Manufacturing Co.	NX	\$2,750.00
Ammeters and voltmeters.	Westinghouse Electric and Manufacturing Co.	D	
Wattmeters.	General Electric Co.	C. 5 B. C. molded glass case.	
Circuit breakers.	Condit Electric and Manufacturing Co.; General Electric Co.	Condit K. or G. E. C. C. P.	2,275.00

(8) THE TRUMBULL ELECTRIC MANUFACTURING COMPANY, PLAINVILLE, CONN.^b

Ammeters and voltmeters.	Westinghouse.	D.	
Wattmeters.	General Electric Co.	C. S.	
Circuit breakers.	Cutter Manufacturing Co.	NX	\$2,600.00
Ammeters and voltmeters.	Westinghouse.	D	
Wattmeters.	Duncan.	Switchboard "C" cover.	
Circuit breakers.	Condit.	K.	2,059.25

(9) WALKER ELECTRIC COMPANY, 39 CORTLANDT STREET, NEW YORK CITY.^a

Ammeters and voltmeters.	Weston Co.	"F" (Model 57).	
Wattmeters.	Sangamo.	Switchboard.	
Circuit breakers.	I. T. E.	NX	\$2,234.00

(10) WESTERN ELECTRIC COMPANY, 115 PURCHASE STREET, BOSTON, MASS.^b

Ammeters and voltmeters.	Weston.	Model 57.	
Wattmeters.	Sangamo.	Switchboard.	
Circuit breakers.	Cutter I. T. E.	NX	\$2,405.00
Ammeters and voltmeters.	Weston.	Model 57.	
Wattmeters.	Sangamo.	Switchboard.	
Circuit breakers.	Cutter I. T. E.	W.	2,275.00

(11) WESTINGHOUSE ELECTRIC AND MANUFACTURING COMPANY, 131 STATE STREET, BOSTON, MASS.

Ammeters and voltmeters.	Westinghouse.	D.	
Wattmeters.	General Electric Co.	Thompson recording c.	
Circuit breakers.	Westinghouse.	C. C.	\$2,240.00

^a No evidence filed of authority of signer to bind principal.

^b No evidence filed of authority of signer to bind principal. Certified check for \$500 filed in lieu of guarantee.

^c Type C. S. See letter of May 7, 1909.

Contract awarded Walker Electric Company.

RIVERS AND HARBORS.

Rock excavation in Beverly Harbor, Massachusetts, opened October 5, 1908.

No.	Name and address of bidder.	Price bid per cubic yard.
1	Johnston & Virden, Lewes, Del.	\$11.47
2	Thomas Fitzgibbons, Beverly, Mass.	24.85
3	Eastern Dredging Co., Boston, Mass.	26.80

Contract awarded Johnston & Virden.

Rock excavation in Boston Harbor, Massachusetts, opened May 25, 1909.

No.	Name and address of bidder.	Price bid.
1	G. H. Breymann & Bros., Toledo, Ohio.....	\$1,950

Contract awarded G. H. Breymann & Bros.

Dredging in Fort Point Channel, Boston Harbor, Massachusetts, opened May 29, 1909.

No.	Name and address of bidder.	Price bid per cubic yard.	
		For dredg-ing, scow measure-ment.	Removing bowlders weighing 3 tons or more each.
1	Bay State Dredging Co., Boston, Mass.....	<i>Cents.</i> 25 $\frac{3}{4}$	\$5
2	Eastern Dredging Co., Boston, Mass.....	29	10

Contract awarded Bay State Dredging Company.

Hire of plant in Merrimac River, Massachusetts, opened May 15, 1909.

No.	Name.	Per day.	Lighter crew.	Diving party.	Total.	Extra men.
1	Nathaniel E. Gordon, South Portland, Me.....	\$38.50	4	3	7	<i>Per day.</i> \$2.00
2	Betts Bros. & Co., East Boston, Mass.....	48.00	4	4	8	2.00
3	Thomas Fitzgibbons, Beverly, Mass.....	45.00	4	3	7	2.50
4	Alfred Sorensen, Somerville, Mass.....	49.55	4	3	7	2.25
5	John Cashman, Quincy, Mass.....	39.50	4	2	6	2.25
6	Hiram W. Phillips, Quincy, Mass.....	38.00	4	2	6	2.50
7	George T. Rendle, Boston, Mass.....	73.00	5	2	7	3.50
8	W. H. Wyman, Boston, Mass.....	47.00	3	3	6	3.00

Contract awarded Nathaniel E. Gordon.

Dredging in Essex River, Massachusetts, opened December 9, 1908.

No.	Name and address of bidder.	Price per cubic yard.	
		For dredg-ing, scow measure-ment.	Removing bowlders weighing 1 ton or more each.
1	Bay State Dredging Co., Boston, Mass.....	<i>Cents.</i> 38 $\frac{3}{4}$	\$12
2	Eastern Dredging Co., Boston, Mass.....	42.8	3

Contract awarded Bay State Dredging Company.

WRECKS.

Removing wrecks in Lake Champlain, New York and Vermont, opened February 6, 1909.

No.	Name and address of bidder.	Price bld.
1	Emmet M. Burlingame, Littleton, N. H.	\$9,091.00
2	John B. Whealton, Jr., Norfolk, Va.	6,025.00
3	John J. Fitzpatrick, Plattsburg, N. Y.	9,800.00
4	Mark Townsend, Linwood, N. J.	14,750.00
5	James E. Cashman, Burlington, Vt.	6,250.00
6	Nathaniel E. Gordon, South Portland, Me.	4,337.50
7	George Neddo, Whitehall, N. Y.	6,900.00
8	Van Sant & Gandy, Atlantic City, N. J.	7,200.00
9	Robert Weston, Rouses Point, N. Y.	4,249.00
10	Johnston & Virden, Lewes, Del.	3,440.00
11	Alfred Sorensen, Boston, Mass.	14,444.44

a Contract awarded Johnston & Virden.

NEWPORT, RHODE ISLAND, DISTRICT.

[Officers: Maj. Harry Taylor, Corps of Engineers, until October 6, 1908. Lieut. Col. J. C. Sanford, Corps of Engineers, since October 6, 1908.]

FORTIFICATIONS.

For furnishing and delivering f. o. b. Newport, R. I., one 30-kilowatt generating set for Fort Greble, R. I., opened March 16, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Amount of bid.
1	General Electric Co., Schenectady, N. Y.	\$1,725
2	New York Safety Steam Power Co., New York, N. Y.	1,775

a Contract awarded to the General Electric Co.

For furnishing labor and material to modify present generator and accumulator switchboards at Fort Greble (R. I.) electric plant to meet the requirements of an additional generating set, opened May 29, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Amount of bid.
1	Scannevin & Potter, Newport, R. I.	\$374
2	Taunton-New Bedford Copper Co., Taunton, Mass.	330

a Contract awarded to Scannevin & Potter.

For altering steam main, exhaust main, etc., central electric plant, Fort Greble, R. I., opened June 3, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Amount of bid.
1	Newport Foundry and Machine Corporation, Newport, R. I.	\$555
2	Clarke & Briggs, Newport, R. I.	298
3	Rhode Island Supply and Engineering Co., Providence, R. I.	236

a Contract awarded to the Rhode Island Supply and Engineering Co.

For unloading from cars or boat at Newport, R. I., and transporting to Fort Greble, R. I., one 30-kilowatt generating set and placing same on its foundation already there prepared, opened June 26, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Amount of bid.
41	Darling & Slade, Newport, R. I.	\$112

a Contract awarded to Darling & Slade.

NOTE.—All the foregoing fortification contracts pertain to the installation and purchase of a new generating set at Fort Greble, R. I., which work is being done by the Engineer Department and paid for from its funds, which said funds are to be reimbursed by the Quartermaster's Department.

RIVERS AND HARBORS.

Abstract of proposals for improving Pawtucket River, Rhode Island, by dredging and by rock excavation and removal, opened July 22, 1908, by Maj. Harry Taylor, Corps of Engineers.

No.	Name and address of bidder.	Rate per cubic yard.	
		Dredging (amount covered by contract, \$77,080).	Rock removal (amount covered by contract, \$36,630).
1	Coastwise Dredging Co., Norfolk, Va.	16.9	\$8.25
2	P. Sanford Ross (Incorporated), Jersey City, N. J.	24.5	8.40
3	R. G. Packard Co., New York, N. Y.		7.70
4	The International Contracting Co., New York, N. Y.	20	
5	Degnon Contracting Co., New York, N. Y.	17 $\frac{2}{3}$	8.50
6	John J. Fitzpatrick, Plattsburg, N. Y.		6.66
7	W. H. Beard Dredging Co., New York, N. Y.	22.4	
8	J. S. Packard, Providence, R. I.	14 $\frac{2}{3}$	
9	Maritime Dredging Co., New York, N. Y.	34	18.00
10	Roy H. Beattie, Fall River, Mass.		7.20
11	Johnston & Virden, Lewes, Del.	26.5	6.92

a Informal.

b Contract awarded to John J. Fitzpatrick.

c Contract awarded to J. S. Packard.

For harbor of refuge at Point Judith, Rhode Island, by furnishing and placing stone, and for hire of lighter for replacing stone already in the breakwater, opened August 25, 1908, by Maj. Harry Taylor, Corps of Engineers.

No.	Name and address of bidder.	Rate per ton of 2,000 pounds stone in place in breakwater, for \$5,500 worth of work.	
		Rate per ton of 2,000 pounds stone in place in breakwater, for \$5,500 worth of work.	Rate per 8-hour day for hire of lighter, etc., for \$2,000 worth of work.
1	E. S. Belden & Sons, Hartford, Conn.	\$1.97	\$73.00
2	The T. A. Scott Co. (Incorporated), New London, Conn.		65.00
3	The Breakwater Co., 115 Broadway, New York, N. Y.	2.23	125.00

a Contract awarded to E. S. Belden & Sons.

b Contract awarded to The T. A. Scott Co. (Incorporated).

For improving Providence River and Harbor, by dredging on Long Bed, Providence Harbor, Rhode Island, opened November 19, 1908, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Rate per cubic yard for about \$5,000 worth of dredging.
^a 1	J. S. Packard Dredging Co., Providence, R. I.	18.44
2	International Contracting Co., New York, N. Y.	38

a Contract awarded to J. S. Packard Dredging Co.

For furnishing boat and accessories for wrecking purposes in the Newport, R. I., district, opened February 1, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Rate per day (number of days unknown).
^a 1	George W. Crowell, Chatham, Mass.	\$20

a Contract awarded to George W. Crowell.

For making alterations and repairs, installing new boilers, etc., in U. S. steamer Cora, opened February 16, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Maker of boilers.	Time.	Amount bid.
1	Fore River Ship Building Co., Quincy, Mass.	Taylor Co.	47 days	\$6,825
2	G. H. Burnham, Newport, R. I.	Almy Co.		7,425
		Almy Co.—Grate surface:		
		54.18 feet	8 weeks	6,975
		56.92 feet		7,095
^a 3	Griscom-Spencer Co., 90 West street, New York, N. Y.	Roberts Co.	30 working days	5,965
4	Kensington Ship Yard Co., Philadelphia, Pa.	do	45 days	6,350

a Contract awarded to Griscom-Spencer Co.

For improving Block Island Harbor, Rhode Island, by dredging, opened June 29, 1909, by Lieut. Col. J. C. Sanford, Corps of Engineers.

No.	Name and address of bidder.	Rate per cubic yard for dredging about 30,000 cubic yards of material.
^a 1	Coastwise Dredging Co., Norfolk, Va.	23.85
2	J. S. Packard Dredging Co., Providence, R. I.	21.75
3	Maritime Dredging Co., New York, N. Y.	24.50

a Award to J. S. Packard Dredging Co. recommended.

NEW LONDON, CONNECTICUT, DISTRICT.

[Officer: Lieut. Col. Harry Taylor, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for furnishing lead-covered insulated cables, received in response to circular letter dated March 15, 1909, and opened March 27, 1909, by Maj. Harry Taylor, Corps of Engineers.

[Appropriation for searchlights for harbor defenses (act of March 2, 1907).]

No.	Name of bidder.	Prices per foot for cables.					Aggregate cost of lot.
		Type A, 19,860 feet.	Type B, 2,200 feet.	Type C, 1,600 feet.	Type D, 4,190 feet.	Type E, 1,835 feet.	
1	General Electric Co.	\$0.31	\$0.053	\$0.169	\$0.49	\$0.395	\$9,321.53
2	Western Electric Co.	.302	.052	.19	.45	.375	8,989.74
3	Safety Insulated Wire and Cable Co.	.303	.0516	.1905	.451	.375	9,013.71
4	Standard Underground Cable Co.	.279	.052	.165	.42	.375	^a 8,367.26
5	Atlantic Insulated Wire and Cable Co.	.37	.07	.216	.553	.466	11,019.98
6	Simplex Electrical Co.	.309	.055	.179	.452	.398	9,168.35

^a Accepted. For use at Portland, Me.

Abstract of proposals for gasoline tanks, received in response to circular letter dated April 2, 1909, and opened April 17, 1909, by Maj. Harry Taylor, Corps of Engineers.

[Appropriations for searchlights for harbor defenses (act of March 2, 1907) and others.]

No.	Name of bidder.	Prices bid per tank for 50 tanks or more.	
		1	2
1	Fore River Shipbuilding Co.		^a \$94.80
2	Gilbert & Barker Manufacturing Co.		143.75
3	L. O. Koven & Bro.		96.00
4	Daniel Russell Boiler Works.		125.00

^a Accepted.

RIVERS AND HARBORS.

Abstract of proposals for delivering stone in Stratford dike, Housatonic River, Connecticut, received in response to public notice dated August 25, 1908, and opened September 5, 1908, by Maj. Harry Taylor, Corps of Engineers.

[Appropriation for improving Housatonic River, Conn. (act of March 2, 1907).]

No.	Name of bidder.	Price per gross ton for placing 6,500 gross tons (estimated).	
		1	2
1	Estate of John Beattie.		\$1.67
2	E. S. Belden & Sons.		^a 1.43

^a Accepted.

Abstract of proposals for dredging in New Haven Harbor, Connecticut, received in response to public notice dated December 12, 1908, and opened December 23, 1908, by Maj. Harry Taylor, Corps of Engineers.

[Appropriations for improving harbor at New Haven, Conn., and emergencies in river and harbor work (act of March 2, 1907).]

No.	Name of bidder.	Price per cubic yard for dredging 22,000 cubic yards (estimated).
1	John P. Randerson.....	\$0.26
2	T. A. Scott & Co. (Incorporated).....	.35
3	Maritime Dredging Co. ....	.25
4	Atlantic Dredging Co.	^a .13 ₁₀
5	P. Sanford Ross (Incorporated).....	.18 ₁₀

a Accepted.

Abstract of proposals for dredging in Bridgeport Harbor, Connecticut, received in response to advertisement dated December 23, 1908, and opened January 23, 1909, by Maj. Harry Taylor, Corps of Engineers.

[Appropriation for improving harbor at Bridgeport, Conn. (act of March 2, 1907).]

No.	Name of bidder.	Prices per cubic yard, work let in one contract.		Prices per cubic yard, work let in two contracts.	
		Channel, 393,000 cubic yards (estimated).	Basin, 885,000 cubic yards (estimated).	Channel, 393,000 cubic yards (estimated).	Basin, 885,000 cubic yards (estimated).
1	J. S. Packard Dredging Co.			<i>Cents.</i>	<i>Cents.</i>
2	Atlantic Dredging Co.			15 ₁₀	11 ₁₀
3	P. Sanford Ross (Incorporated).....	10 ₁₀	10 ₁₀	14 ₁₀	9 ₁₀
4	American Dredging Co.	^a 12 ₁₀	8 ₂		8 ₁₀
5	Taylor Dredging Co.	12	12		
6	Newark Meadows Improvement Co.	19 ₁₀	14 ₁₀	20	15
7	Maryland Dredging and Contracting Co.	11 ₁₀	9 ₁₀		
8	International Contracting Co.	15	15	15	15
9	Maritime Dredging Co.	16 ₂	16 ₂	19	16
10	Coastwise Dredging Co.	12	14		
11	Morris & Cummings Dredging Co.	20	12		
12	John P. Randerson.....	14	11 ₂	15	12
13	W. H. Beard Dredging Co.	14 ₁₀	14 ₁₀	20	12 ₁₀

a Accepted.

b One bid defective.

Abstract of proposals for dredging in Connecticut River, Connecticut, received in response to advertisement dated April 5, 1909, and opened May 5, 1909, by Maj. Harry Taylor, Corps of Engineers.

[Appropriations for improving Connecticut River, Conn. (act of March 2, 1907), and preservation and maintenance of river and harbor works (act of March 3, 1909).]

No.	Name of bidder.	Price per cubic yard for dredging 100,000 cubic yards (estimated).
1	Hartford and New York Transportation Co.	\$0.11
2	P. Sanford Ross (Incorporated).....	.12 ₁₀

a Accepted.

Abstract of proposals for dredging in New Haven Harbor, Connecticut, received in response to advertisement dated May 15, 1909, and opened June 15, 1909, by Maj. Harry Taylor, Corps of Engineers..

[Appropriation for preservation and maintenance of river and harbor works (act of March 3, 1909), for New Haven Harbor, Conn.]

No.	Name of bidder.	Prices per cubic yard for dredging.	
		Mill River, estimated yardage, 59,000 cubic yards.	Basin, estimated yardage, 61,000 cubic yards.
1	J. S. Packard Dredging Co.....	8.89	^a 8.89
2	Maritime Dredging Co.....	19	19
3	John A. Seely.....	28	19.19
4	P. Sanford Ross (Incorporated).....	19.9	9.6
5	Atlantic Dredging Co.....	13.7	10.3

a Accepted.

Abstract of proposals for dredging in Housatonic River, Connecticut, received in response to circular letter dated May 29, 1909, and opened June 9, 1909, by Maj. Harry Taylor, Corps of Engineers.

[Appropriation for preservation and maintenance of river and harbor works (act of March 3, 1909), for Housatonic River, Conn.]

No.	Name of bidder.	Price per cubic yard for dredg- 25,000 cubic yards (estimated).	
1	Edward A. Berry.....		^a \$0.20

a Accepted.

NEW YORK, NEW YORK, FIRST DISTRICT.

[Officer: Col. W. M. Black, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for removing Long Rock in harbor at Echo Bay, New York, and ledge rock in Bronx River, New York, received in response to advertisement dated June 18, 1908, and opened July 17, 1908, at New York, N. Y., by Col. John G. D. Knight, Corps of Engineers.

No.	Name and address of bidder.	Both works, per cubic yard.		
		Material in Echo Bay Har- bor, per cubic yard.	Material in Bronx River, per cubic yard.	
1	John J. Fitzpatrick, 29 Hamilton street, Plattsburg, N. Y.....	\$9.97		
2	John & Joseph McSpirit, 118 Wayne street, Jersey City, N. J.....	10.00	\$8.50	\$8.50
3	Maritime Dredging Co., 78 Broad street, New York, N. Y.....	12.00	15.00	14.00
4	Isaac T. Brown, 15 Whitehall street, New York, N. Y.....		11.50	

a Accepted and contract entered into.

Abstract of proposals for furnishing rubble stone, quarry spalls, and quarry refuse for constructing and repairing dikes in Hudson River, New York, received in response to advertisement dated July 7, 1908, and opened July 28, 1908, at New York, N. Y., by Col. John G. D. Knight, Corps of Engineers.

No.	Name and address of bidder.	Rubble stone, per cubic yard.	Quarry spalls, per cubic yard.	Quarry refuse, per cubic yard.
1	William Parrott, 178 Washington street, Newburgh, N. Y.	\$1.34	\$1.34	\$1.34
<i>a</i> 2	Eugene C. Sickles, 712 Dolphin street, Baltimore, Md.	1.305	1.305	1.305
3	Richard Parrott, jr., 51 Overlook place, Newburgh, N. Y.	1.47	1.47	1.47
4	Bouker Contracting Co., 21 State street, New York, N. Y.	2.00	2.20	1.95

a Accepted and contract entered into.

Abstract of proposals for constructing and delivering one wooden scow, received in response to advertisement dated July 23, 1908, and opened August 13, 1908, at New York, N. Y., by Col. John G. D. Knight, Corps of Engineers.

No.	Name and address of bidder.	Price.
1	T. S. Marvel Shipbuilding Co., Newburgh, N. Y.	\$11,500
<i>a</i> 2	New London Marine Iron Works Co., New London, Conn.	7,970
3	John H. Dialogue & Son, Camden, N. J.	10,600
4	John F. Walsh, jr., Co., 136 Charlton street, New York	7,000
5	Frederic A. Verdon Co., West New Brighton, Staten Island, N. Y.	9,400
6	Daniel J. Leary, Eagle and Provost streets, Brooklyn, N. Y.	12,400
7	Staten Island Shipbuilding Co., Port Richmond, Staten Island, N. Y.	10,382
8	Jenks-Asserson Construction Co., 59 Pearl street, New York City	8,599
9	Phoenix Construction Co., 41 Park Row, New York City	8,582

a Accepted and contract entered into.

Abstract of proposals for furnishing paving stone for repairing Small Island dike in Hudson River, New York, received in response to advertisement dated August 6, 1908, and opened August 22, 1908, at New York, N. Y., by Col. John G. D. Knight, Corps of Engineers.

No.	Name and address of bidder.	Price per cubic yard.	
		F. o. b. Albany, N. Y.	On Small Island dike.
1	Fred C. Vedder, 2 Yates street, Albany, N. Y.	\$2.20	
<i>a</i> 2	Richard Parrott, jr., 51 Overlook place, Newburgh, N. Y.		\$2.53

a Accepted and contract entered into.

Abstract of proposals for dredging in Patchogue River, Great South Bay, New York, and Browns Creek, New York, received in response to advertisement dated August 17, 1908, and opened September 14, 1908, at New York, N. Y., by Col. John G. D. Knight, Corps of Engineers.

No bids received.

Abstract of proposals for furnishing paving stone for constructing and repairing dike in Hudson River, New York, received in response to advertisement dated April 30, 1909, and opened May 27, 1909, at New York, N. Y., by Col. W. M. Black, Corps of Engineers.

No.	Name and address of bidder.	Price per cubic yard.	
		F. o. b. Albany.	On dike.
1	Wm. D. Fuller, New Baltimore, N. Y.		\$2.48
2	S. A. Bailey, 59 Pearl street, New York, N. Y.		4.50
3	Eugene C. Sickles, 827 North Arlington avenue, Baltimore, Md.		2.55
4	Flagler & Vedder, Albany, N. Y.	\$2.00	
5	Frank G. Mix, Schoharie, N. Y.	2.05	
6	Richard Parrott, Jr., Newburg, N. Y.	2.18	2.76

a Recommended for acceptance.

Abstract of proposals for furnishing rubblestone and quarry spalls for constructing and repairing dikes in Hudson River, New York, received in response to advertisement dated April 30, 1909, and opened May 27, 1909, at New York, N. Y., by Col. W. M. Black, Corps of Engineers.

No.	Name and address of bidder.	Price per cubic yard.	
		Rubble-stone.	Quarry spalls.
1	Wm. D. Fuller, New Baltimore, N. Y.	\$0.97	\$0.97
2	Bouker Contracting Co., 21-24 State street, New York, N. Y.	2.25	2.25
3	S. A. Bailey, 59 Pearl street, New York, N. Y.	2.50	2.50
4	Flagler & Vedder, Albany, N. Y.	1.75	
5	Richard Parrott, Jr., Newburg, N. Y.	1.295	1.295
6	Eugene C. Sickles, 827 North Arlington avenue, Baltimore, Md.	1.19	1.19

a Recommended for acceptance.

Abstract of proposals for dredging in Port Chester Harbor, New York, received in response to advertisement dated May 27, 1909, and opened June 28, 1909, at New York, N. Y., by Col. W. M. Black, Corps of Engineers.

No.	Name and address of bidder.	Price per cubic yard.	
		Soft material, scow measurement.	Solid measurement.
1	John P. Randerson, 755 Madison avenue, Albany, N. Y.	40	\$10
2	Maritime Dredging Co., 78 Broad street, New York, N. Y.	27	8
3	Edward A. Berry, 15 Bassick avenue, Bridgeport, Conn.	28	10
4	John & Joseph McSpirit, 118 Wayne street, Jersey City, N. J.	25	8
		Cents.	
1	John P. Randerson, 755 Madison avenue, Albany, N. Y.	40	\$15
2	Maritime Dredging Co., 78 Broad street, New York, N. Y.	27	15
3	Edward A. Berry, 15 Bassick avenue, Bridgeport, Conn.	28	10
4	John & Joseph McSpirit, 118 Wayne street, Jersey City, N. J.	25	12

a Recommended for acceptance

NEW YORK, NEW YORK, SECOND DISTRICT.

[Officer: Col. S. W. Roessler, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals received in response to advertisement dated June 8, 1908, for furnishing bituminous coal required by the United States dredges Manhattan, Atlantic, Raritan, and Navesink and opened June 23, 1908, at the office of Col. W. L. Marshall, Corps of Engineers, New York City.

	Name and address of bidder.	Brand.	Mines.	Price per ton.	Total. ^a	Remarks.
1	W. P. W. Haff, 1 Broadway, New York City.	Quemahoning.	Jerome, Somererset County, Pa.	\$3.45	\$165,600	Analysis not sworn to. Guarantors used incorrect form.
			Indiana.....	3.35	160,800	
2	Hite & Rafetto, 1 Broadway, New York City.	Vulcan.....	Indiana County, Pa.	2.89	138,720	Analysis not sworn to. Lowest bid.
			Austen district.	3.10	148,800	
			Peerless.....	3.25	156,000	
3	Moshammon Coal Mining Co. (Incorporated), 307 Land Title Building, Philadelphia, Pa.	"B," or Miller vein.	Quemahoning.	3.04	145,920	Bid slightly informal.
			Moshammon No. 10.	3.04	145,920	
4	C. J. Wittenberg, 11 Broadway, New York City.	Acme.....	Acme mines...	3.33	159,840	Analysis (made by Treasury Department) not sworn to.
5	Elkins Coal and Coke Co., 1 Broadway, New York City.	Elkins steam coal.	Morgantown, W. Va.	2.94	141,120	Analysis not sworn to.
6	The Davis Coal and Coke Co., Continental Building, Baltimore, Md.	Davis.....	Thomas, W. Va.	3.00	144,000	Bid slightly informal. Do.
7	W. K. Niver Coal Co., 90 West street, New York City.	Niver Pen Mar.	Pen Mar.....	3.10	148,800	Bid slightly informal.
8	Geo. D. Harris & Co., 1 Broadway, New York City.	Roaring Creek.	Coalton, W. Va.	2.93	140,640	Analysis of coal not signed.
			Philippi.....	2.95	141,600	
			Fair Oak.....	2.98	143,040	

^a For approximately 48,000 tons.

Abstract of proposals received and publicly opened at United States Engineer office, New York City, on September 21, 1908, for ballasting and making certain repairs and alterations to the United States dredge Raritan.

No.	Name and address of bidder.	Amount bid.	Time of beginning after date of acceptance.	Time of completion.	Comparison, based on paragraph 12 of specifications.
1	Tietjen & Lang Dry Dock Co., Hoboken, N. J.....	\$9,876	6 days.....	6 days.....	\$9,876
2	Shooters Island Shipyard Co., New York City.....	9,956	4 days.....	10 days.....	10,556
3	Pelly Dry Dock Co., Brooklyn, N. Y.....	9,830	14 days.....	9 days.....	10,280
4	Raab Iron Works Co., Brooklyn, N. Y.....	10,875	10 days.....	8 days.....	11,175
5	Griscom-Spencer Co., New York City.....	13,950	8 days.....	14 days.....	15,150
6	John Robins Co., Brooklyn, N. Y.....	10,300	1 day.....	...do.....	11,500
7	Morse Dry Dock and Repair Co., Brooklyn, N. Y.....	9,950	14 days.....	6 days.....	9,950
8	Kensington Shipyard Co., Philadelphia, Pa.....	11,000	6 days.....	12 days.....	11,900
9	Maryland Steel Co., Sparrows Point, Md.....	10,800	2 days.....	9 days.....	11,250
10	Columbia Engineering Works, Brooklyn, N. Y.....	10,097	12 days.....	10 days.....	10,697

^a Lowest bid.

Abstract of proposals for removal of rock in the North River, off Pier A, New York Harbor, received in response to advertisement dated February 26, 1909, and opened March 26, 1909, at the office of Lieut. Col. S. W. Roessler, Corps of Engineers, New York City.

No.	Name and address of bidder.	Price for removal of rock.	Time of completion.	Remarks.
1	R. G. Packard Co., 130 Pearl street, New York City.	\$37,450	12 months....	Authority for signature not filed; informality waived.

Abstract of proposals for riprap required at Governors Island, New York, received in response to public notice dated March 18, 1909, and opened March 29, 1909, at the office of Lieut. Col. S. W. Roessler, Corps of Engineers, New York City.

No.	Name and address of bidder.	15,000 tons (approximately).		Time of beginning after notice of acceptance.	Time of completion.
		Price per ton of 2,240 pounds.	Amount.		
a 1	Henry Steers (Incorporated), 17 Battery place, New York City.	Cents. 30	\$4,500	2 weeks....	6 weeks.
2	O'Brien Bros. (Incorporated), 54 South street, New York City.	40	6,000	...do.....	10 weeks.
3	Joseph A. Curley, 132 Nassau street, New York City...	45	6,750	...do.....	15 weeks.
4	Charles A. Brown, 62 William street, New York City.	55	8,250	...do.....	10 weeks.
5	Bouker Contracting Co., 21 and 24 State street, New York City.	43	6,450	...do.....	Do.

a Lowest bid.

WRECKS.

Abstract of proposals for removing wreck of steamship Finance from lower New York Harbor, received in response to attached advertisement dated March 23, 1909, and opened April 23, 1909, at the office of Lieut. Col. S. W. Roessler, Corps of Engineers, New York City.

No.	Name and address of bidder.	Price for removal of wreck.	Time of beginning work after acceptance.	Time of completion of work.	Method of removal.
a 1	Johnston & Virden, Lewes, Sussex County, Del.	\$23,950	10 days....	7 months....	Steam hoisters, blasting, and divers.
2	Merritt & Chapman Derrick and Wrecking Co., 17 Battery place, New York City.	88,485	20 days....	18 months...	Explosives, divers, wrecking steamers, and derricks.
b 3	Alfred Sorensen, 36 Atlantic avenue, Boston, Mass.	{ c 235 125,000 }	.....	.....	.....

a Lowest bid.

b Bid informal.

c Per day.

Abstract of proposals for removing wreck of steamship Daghestan from lower New York Harbor, received in response to advertisement dated April 6, 1909, and opened May 6, 1909, by Col. S. W. Roessler, Corps of Engineers, Army Building, New York City.

No.	Name and address of bidder.	Price for removal of wreck.	Time of beginning work after acceptance.	Time of completion of work.	Method of removal.
1	Merritt & Chapman Derrick and Wrecking Co., 17 Battery place, New York City.	\$65,000	20 days or less.	10 months...	Explosives, divers, wrecking steamers, and derricks.
a 2	Johnston & Virden, Lewes, Del.	33,700	20 days....	6 months or less.	Settle, and then spread wreck with dynamite.

a Lowest bid.

NEW YORK, NEW YORK, THIRD DISTRICT.

[Officer: Col. D. W. Lockwood, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Shrewsbury River, Woodbridge Creek, Keyport Harbor, Matawan Creek, and Raritan and South rivers, New Jersey, received in response to advertisement dated May 22, 1909, and opened at New York, N. Y., on June 8, 1909, by Col. D. W. Lockwood, Corps of Engineers.

No.	Name and address of bidder.	Shrewsbury River.		Woodbridge Creek.		Keyport Harbor.	
		Price per cubic yard, scow measurement.	Yards that can be removed.	Price per cubic yard, scow measurement.	Yards that can be removed.	Price per cubic yard, scow measurement.	Yards that can be removed.
1	John & Joseph McSpirit, 118 Wayne street, Jersey City, N. J.	Cents. 28	53,571	Cents. a 28	17,857	Cents. a 28	14,286
2	P. Sanford Ross (Incorporated), 277 Washington street, Jersey City, N. J.	36	41,667	32	15,625	30	13,333
3	The Newburgh Dredging Co., Newburgh, N. Y.	a 26 ³ ₄	56,075				

No.	Name and address of bidder.	Matawan Creek.		Raritan River.		South River.	
		Price per cubic yard, scow measurement.	Yards that can be removed.	Price per cubic yard, scow measurement.	Yards that can be removed.	Price per cubic yard, scow measurement.	Yards that can be removed.
1	John & Joseph McSpirit, 118 Wayne street, Jersey City, N. J.	Cents. a 28	8,571	Cents. 40	20,000	Cents. 40	10,000
2	P. Sanford Ross (Incorporated), 277 Washington street, Jersey City, N. J.			a 30	26,667	a 30	13,333
3	The Newburgh Dredging Co., Newburgh, N. Y.						

^a Accepted bids.

PHILADELPHIA, PENNSYLVANIA, DISTRICT.

[Officer: Maj. Herbert Deakyne, Corps of Engineers.]

Abstract of proposals for dredging in Delaware River in sections 1, 3, and subsection 5 A, opened September 5, 1908, by Maj. Herbert Deakyne, Corps of Engineers.

Dredging in sections.	Approximate quantities, scow measurement.	Name and address of bidder.			
		(1) Maryland Dredging and Contracting Co., Baltimore, Md.	(2) American Dredging Co., Philadelphia, Pa.	Price per cubic yard.	Total.
	Cubic yards.			Price per cubic yard.	Total.
<i>In section 1.</i>					
For material excavated, removed, and deposited, at per cubic yard, scow measurement.....	1,120,000	<i>Cents.</i> 14 $\frac{1}{2}$	\$162,400	<i>Cents.</i> 13 $\frac{3}{8}$	\$152,600
<i>In section 3.</i>					
For material excavated, removed, and deposited, at per cubic yard, scow measurement.....	504,000	16 $\frac{1}{2}$	83,160	16	80,640
<i>In subsection 5 A.</i>					
For material excavated, removed, and deposited, at per cubic yard, scow measurement.....	168,000	16 $\frac{1}{2}$	27,720	15 $\frac{8}{10}$	26,544
Total.....			273,280		259,784

Contract (dated September 12, 1908) entered into with the American Dredging Company.

Abstract of proposals for dredging in Delaware River in section 1, opened May 10, 1909, by Maj. Herbert Deakyne, Corps of Engineers.

No.	Name and address of bidder.	Approximate quantity to be removed (cubic yards).	For material excavated, removed, and deposited, per cubic yard, scow measurement.	
			Price.	Total.
1	P. Sanford Ross (Incorporated), Jersey City, N. J.....	1,000,000	<i>Cents.</i> 12 $\frac{1}{2}$	\$129,000
2	American Dredging Co., Philadelphia, Pa.....	1,000,000	12 $\frac{3}{8}$	123,000

Contract (dated May 18, 1909) entered into with the American Dredging Company.

Abstract of proposals for furnishing and delivering bituminous coal for U. S. dredge Delaware and other vessels of the United States plant, opened January 18, 1909, by Maj. Herbert Deakyne, Corps of Engineers.

Item.	Estimated quantity.	Name and address of bidder.							
		(1) J. P. Darby & Co., Philadelphia, Pa.		(2) Rogers-Corr Coal Co., Philadelphia, Pa.		(3) Sterling Coal Co., Philadelphia, Pa.		(4) Hite & Raffetto, Philadelphia, Pa.	
Tons.		Price.	Total.	Price.	Total.	Price.	Total.	Price.	Total.
For the dredge Delaware and other dredges of this type, delivered in midstream, per ton of 2,240 pounds.....	10,000	\$3.10	\$31,000	\$3.10	\$31,000	\$3.30	\$33,000	\$3.10	\$31,000
For all other dredges, tugs, scows, etc., delivered on board alongside wharf of company, per ton of 2,240 pounds.....	6,000	2.75	16,500	2.70	16,200	2.90	17,400	2.60	15,600
Extra prices for lighterage, etc., when delivery is made in midstream for vessels of class 2:									
For loads of less than 50 tons, per ton.....		.40	.....	.95	.....	1.00	.....	1.00	.....
For loads of more than 50 tons, per ton.....		.30	.....	.65	.....	.75	.....	1.00	.....
Total amount of bids.....			47,500		47,200		50,400		46,600

Contract (dated March 22, 1909) entered into with the Sterling Coal Company.

Abstract of proposals for furnishing labor and materials for emergency repairs to the United States floating plant on Delaware River belonging to the United States Engineer Department, opened April 26, 1909, by Maj. Herbert Deakyne, Corps of Engineers.

	Name and address of bidders.					
	(1) Kensington Shipyards Co., Philadelphia, Pa.		(2) Quigley, Davis & Dorp, Camden, N. J.		(3) The Griscom-Spencer Co., New York, N. Y.	
	Price.	Total.	Price.	Total.	Price.	Total.
LABOR.						
(Prices for various classes of skilled labor are to include the use of the ordinary hand tools necessary to perform their work.)						
Plumbers' labor, 50 hours.....per hour.....	\$0.29 $\frac{1}{2}$	\$14.75	\$0.25	\$12.50	\$0.35	\$17.50
Plumbers' helpers, 50 hours.....do.....	.17 $\frac{8}{10}$	8.90	.10	5.00	.20	10.00
Pattern makers' labor and tools, 1,000 hours, per hour.....	.35 $\frac{1}{4}$	357.50	.35	350.00	.37 $\frac{1}{2}$	375.00
Painters' labor, with brush and tools, 100 hours, per hour.....	.25 $\frac{1}{6}$	25.80	.20	20.00	.30	30.00
Carpenters' labor, with ordinary tools, 2,000 hours.....per hour.....	.35 $\frac{1}{4}$	715.00	.35	700.00	.37 $\frac{1}{2}$	750.00
Calkers' labor, with ordinary tools, 100 hours, per hour.....	.35 $\frac{1}{4}$	35.75	.35	35.00	.35	35.00
Machinists' labor, with ordinary tools, 15,000 hours.....per hour.....	.31	4,650.00	.32 $\frac{1}{2}$	4,875.00	.32	4,800.00
Machinists' helpers' labor, 2,000 hours.....do.....	.17 $\frac{8}{10}$	356.00	.15	300.00	.20	400.00
Pipe fitters' labor, with tools, 50 hours.....do.....	.29 $\frac{1}{2}$	14.75	.32 $\frac{1}{2}$	16.25	.32 $\frac{1}{2}$	16.25
Pipe fitters' helpers' labor, 50 hours.....do.....	.17 $\frac{8}{10}$	8.90	.15	7.50	.20	10.00
Boiler makers' labor, with hand tools, 5,000 hours.....per hour.....	.31 $\frac{3}{5}$	1,567.50	.35	1,750.00	.32 $\frac{1}{2}$	1,625.00
Boiler makers' helpers' labor, 1,000 hours.....do.....	.18 $\frac{1}{2}$	185.00	.15	150.00	.20	200.00
Blacksmith labor, including forge, coal, and tools, 1,000 hours.....per hour.....	.60	600.00	.68	680.00	.60	600.00
Blacksmith helpers' labor, 1,500 hours.....do.....	.17 $\frac{8}{10}$	260.70	.14	210.00	.20	300.00
Coppersmiths' labor, with forge, coal, and tools, 100 hours.....per hour.....	.30	30.00	.20	20.00	.40	40.00
Coppersmiths' helpers' labor, 100 hours.....do.....	.18	18.00	.10	10.00	.20	20.00
Riggers' labor, 2,500 hours.....do.....	.23	575.00	.25	625.00	.25	625.00

Abstract of proposals for furnishing labor and materials for emergency repairs to the United States floating plant on Delaware River belonging to the United States Engineer Department, opened April 26, 1909, by Maj. Herbert Deakyne, Corps of Engineers—Cont'd.

Name and address of bidders.						
(1) Kensington Shipyard Co., Philadelphia, Pa.		(2) Quigley, Da- vis & Dorp, Camden, N. J.		(3) The Griscom- Spencer Co., New York, N. Y.		
Price.	Total.	Price.	Total.	Price.	Total.	
LABOR—continued.						
Ordinary labor, 2,500 hours.....per hour.	\$0.17 ²⁷ ₁₀	\$431.75	\$0.20	\$500.00	\$0.20	\$500.00
Firemen's labor, 300 hours.....do.	.21 ¹ ₂	64.50	.14	42.00	.20	60.00
Engineers' labor, 300 hours.....do.	.21 ¹ ₂	64.50	.17	51.00	.20	60.00
Electrician, 250 hours.....do.	.26 ⁸ ₁₀	67.00	.30	75.00	.35	87.50
Electrician helpers, 100 hours.....do.	.84 ¹ ₂	8.25	.10	10.00	.25	25.00
Hauling, two horses, truck, and driver, 50 hours.....per hour.	.50	25.00	.50	25.00	.80	40.00
Ashes removed from wharf and disposed of, 25 loads.....per cubic yard.	.50	12.50	1.50	37.50	.50	12.50
Labor of any kind—shop and yard work—done after regular working hours between 6 o'clock p. m. and 12 o'clock midnight, at per cent of increase over day rates for same kind of labor.	(a)	(a)	(a)	(b)	(b)	(b)
Between 12 o'clock midnight and 7 o'clock a. m., and on Sundays or holidays, at per cent of increase over day rates for same kind of labor.....	(a)	(a)	(a)	(a)	(a)	(a)
MATERIALS.						
Oak, 3,000 feet.....per 1,000 feet, b. m.	43.00	129.00	45.00	135.00	70.00	210.00
Georgia long-leaf yellow pine, 5,000 feet.....do.	35.00	175.00	40.00	200.00	40.00	200.00
White pine, 1,000 feet.....do.	55.00	55.00	60.00	60.00	70.00	70.00
Cypress, 500 feet.....do.	45.00	22.50	45.00	22.50	50.00	25.00
Spun oakum, best navy, 100 pounds, per pound.....	.08	8.00	.10	10.00	.10	10.00
Phosphor-bronze bushings, 1,500 pounds, per pound.....	.24 ¹ ₂	367.50	.29	435.00	.30	450.00
Pitch, 5 barrels.....per barrel.	3.00	15.00	3.00	15.00	3.00	15.00
Mops, pitch, 5.....each.	.29	1.45	.25	1.25	.30	1.50
Wrought spikes, 100 pounds.....per pound.	.04	4.00	.05	5.00	.05	5.00
Galvanized spikes, 25 pounds.....do.	.04 ¹ ₂	1.06	.05 ¹ ₂	1.38	.06	1.50
Wire nails, 100 pounds.....do.	.03	3.00	.04	4.00	.04	4.00
Wrought nails, 50 pounds.....do.	.03 ¹ ₂	1.88	.04	2.00	.05	2.50
Galvanized nails, 50 pounds.....do.	.04 ¹ ₂	2.25	.05	2.50	.06	3.00
Galvanized sheathing nails, 50 pounds.....do.	.07	3.50	.06	3.00	.06	3.00
Countersunk-head nails, 50 pounds.....do.	.10 ¹ ₂	5.38	.06	3.00	.06	3.00
Copper nails, 50 pounds.....do.	.21 ¹ ₂	10.75	.20	10.00	.25	12.50
Galvanized tacks, 50 pounds.....do.	.09 ¹ ₂	4.88	.09	4.50	.08	4.00
Iron screws, 50 pounds.....do.	.10	5.00	.25	12.50	.40	20.00
Brass screws, 10 pounds.....do.	.16	1.60	.50	5.00	.55	5.50
Tap bolts, 50 pounds.....do.	.05	2.50	.08	4.00	.09	4.50
Tap rivets, 50 pounds.....do.	.10 ¹ ₂	5.38	.06	3.00	.08	4.00
Machine bolts, threaded, 1,000 pounds.....do.	.04 ¹ ₂	42.50	.05	50.00	.07	70.00
Steel bolts, 50 pounds.....do.	.04 ¹ ₂	2.25	.08	4.00	.07	3.50
Galvanized bolts, threaded, 50 pounds.....do.	.04 ¹ ₂	2.38	.06	3.00	.12	6.00
Tapped nuts, assorted, 1,000 pounds.....do.	.08	80.00	.10	100.00	.12	120.00
Rivets, $\frac{1}{8}$ inch and larger, 1,000 pounds.....do.	.02 ¹ ₂	25.00	.04	40.00	.06	60.00
Rivets, $\frac{1}{8}$ to $\frac{1}{4}$ inch diameter, 25 pounds.....do.	.02 ¹ ₂	.63	.08	2.00	.07	1.75
Bar iron, 20,000 pounds.....do.	.02	400.00	.02 ¹ ₂	500.00	.02 ¹ ₂	550.00
Angle iron, 1,000 pounds.....do.	.01 ¹ ₂	17.50	.02 ¹ ₂	22.50	.02 ¹ ₂	27.50
Boiler plate, 50 pounds.....do.	.01 ¹ ₂	8.75	.03	15.00	.02 ¹ ₂	12.50
Steel plate, 2,000 pounds.....do.	.01 ¹ ₂	35.00	.02 ¹ ₂	50.00	.02 ¹ ₂	50.00
Sheet iron, plain, 100 pounds.....do.	.02 ¹ ₂	2.50	.03	3.00	.03 ¹ ₂	3.50
Sheet iron, galvanized, 100 pounds.....do.	.03 ¹ ₂	3.25	.04 ¹ ₂	4.50	.06	6.00
Sheet lead, 100 pounds.....do.	.07 ¹ ₂	7.25	.05	5.00	.08	8.00
Sheet copper, 50 pounds.....do.	.17 ¹ ₂	8.88	.20	10.00	.22	11.00
Sheet brass, 50 pounds.....do.	.14 ¹ ₂	7.13	.17	8.50	.25	12.50
Muntz metal, 100 pounds.....do.	.19 ¹ ₂	19.50	.22	22.00	.20	20.00
Best Magnolia babbitt metal, 600 pounds, per pound.....	.21 ¹ ₂	129.00	.20	120.00	.25	150.00
Cold rolled steel, 50 pounds.....per pound.	.02 ¹ ₂	1.38	.04	2.00	.05	2.50
Asbestos mill board, 50 pounds.....do.	.03 ¹ ₂	1.63	.07	3.50	.06	3.00
Brass pipe, 50 pounds.....do.	.20 ¹ ₂	10.25	.23	11.50	.25	12.50
Copper pipe, 50 pounds.....do.	.24 ¹ ₂	12.38	.26	13.00	.28	14.00
Lead pipe, 100 pounds.....do.	.05 ¹ ₂	5.50	.07	7.00	.07	7.00
Iron pipe, 1,000 pounds.....do.	.04 ¹ ₂	47.50	.06	60.00	.09	90.00
Galvanized-iron pipe, 50 pounds.....do.	.05 ¹ ₂	2.75	.08	4.00	.12	6.00

a Double time.

b Fifty per cent.

Abstract of proposals for furnishing labor and materials for emergency repairs to the United States floating plant on Delaware River belonging to the United States Engineer Department, opened April 26, 1909, by Maj. Herbert Deakyne, Corps of Engineers—Cont'd.

	Name and address of bidders.					
	(1) Kensington Shipyard Co., Philadelphia, Pa.		(2) Quigley, Da- vis & Dorp, Camden, N. J.		(3) The Griscom- Spencer Co., New York, N. Y.	
	Price.	Total.	Price.	Total.	Price.	Total.
MATERIALS—continued.						
Brass pipe fittings, 100 pounds...per pound..	\$0.43	\$43.00	\$0.45	\$45.00	\$0.40	\$40.00
Iron pipe fittings, 250 pounds.....do.....	.09 ³ ₄	24.38	.09	22.50	.12	30.00
Galvanized-iron pipe fittings, 50 pounds...do....	.12	6.00	.12	6.00	.15	7.50
Iron castings (not propeller wheels) plain, including mold, no core, 44,000 pounds, per pound.....	.03 ¹ ₄	1,430.00	.03	1,320.00	.03	1,320.00
Iron castings cored (not propeller wheels) including core and mold, 10,000 pounds, per pound.....	.03 ¹ ₄	325.00	.03 ³ ₄	375.00	.03	300.00
Loam castings, 500 pounds.....per pound.....	.04 ¹ ₄	21.25	.04	20.00	.04	20.00
Yellow brass castings, core and mold in- cluded, 250 pounds.....per pound.....	.18 ¹ ₄	45.63	.22	55.00	.22	55.00
White brass castings, 50 pounds.....do.....	.42 ¹ ₂	21.25	.28	14.00	.35	17.50
Steel castings (not propeller wheels) including core and mold, 14,000 pounds...per pound..	.06 ¹ ₂	910.00	.06	840.00	.07	980.00
Brass rods, 50 pounds.....do.....	.14 ¹ ₂	7.25	.16	8.00	.22	11.00
Steel bars, for machine work, 1,500 pounds.....per pound.....	.02	30.00	.03 ¹ ₂	52.50	.03 ¹ ₂	52.50
Atlantic white lead, 50 pounds.....do.....	.06 ¹ ₂	3.25	.06	3.00	.06 ¹ ₂	3.38
Red lead, mixed, 25 gallons.....per gallon.....	.85	21.25	.60	15.00	1.10	27.50
Black paint, mixed, 25 gallons.....do.....	1.61	40.25	.50	12.50	1.00	25.00
White putty, 25 pounds.....per pound.....	.02 ¹ ₄	.56	.02	.50	.02	.50
Red-lead putty, 50 pounds.....do.....	.06 ¹ ₂	3.13	.10	5.00	.08	4.00
Linseed oil, raw, 25 gallons.....per gallon.....	.57	14.25	.42	10.50	.60	15.00
Linseed oil, boiled, 25 gallons.....do.....	.58	14.50	.43	10.75	.65	16.25
Solder, 25 pounds.....per pound.....	.19	4.75	.30	7.50	.20	5.00
Shellac, 5 gallons.....per gallon.....	3.06	15.30	3.00	15.00	2.50	12.50
Turpentine, 10 gallons.....do.....	.45	4.50	.39	3.90	.60	6.00
Lamp oil, 10 gallons.....do.....	.12 ¹ ₄	1.23	.14	1.40	.15	1.50
Tallow, 10 pounds.....per pound.....	.08	.80	.07	.70	.06	.60
Cotton waste, 150 pounds.....do.....	.04 ¹ ₄	6.38	.06	9.00	.06	9.00
Fire bricks, 100.....each.....	.03	3.00	.03	3.00	.03	3.00
Fresh water, 2,000 gallons...per 1,000 gallons.....	.00 ¹ ₂	.01	.00 ¹ ₂	.01	.10	.20
Steam tubes, 200 feet.....per foot.....	.43	86.00	.05	10.00	.30	60.00
Boiler tubes, 200 feet.....do.....	.19 ¹ ₂	39.00	.20	40.00	.25	50.00
White pine logs for buoys, sticks trimmed of knots, but not dressed, 30 to 50 feet long, 500 feet.....per foot B. M.....	.08 ¹ ₄	41.25	.05	.....	.75	375.00
Genuine Rainbow packing, 20 pounds, per pound.....	.60	12.00	.55	11.00	.50	10.00
Genuine Usudurian packing, 20 pounds, per pound.....	.70	14.00	.55	11.00	.60	12.00
Gum packing, 20 pounds.....per pound.....	.19 ¹ ₄	3.90	.30	6.00	.20	4.00
Soft packing, 50 pounds.....do.....	.21 ¹ ₂	10.75	.20	10.00	.25	12.50
Canvas, No. 6, 50 yards.....per yard.....	.17 ¹ ₄	8.63	.16	8.00	.25	12.50
Wrought-iron washers, 100 pounds, per pound.....	.06 ¹ ₂	6.50	.06	6.00	.05	5.00
Galvanized-iron washers, 10 pounds, per pound.....	.07 ¹ ₂	.75	.06	.60	.08	.80
Iron saucer rings, 10 pounds.....per pound.....	.06 ¹ ₂	.65	.06	.60	.06	.60
Galvanized-iron saucer rings, 10 pounds, per pound.....	.07	.70	.06	.60	.08	.80
Best tool steel, 100 pounds.....per pound.....	.11 ¹ ₂	11.25	.09	9.00	.09	9.00
Oak wedges, 300.....per 100.....	3.00	9.00	1.00	3.00	2.50	7.50
Hackmatack knees, 6-inch, 10.....each.....	3.75	37.50	1.50	15.00	3.00	30.00
Candles, tallow, about 4 inches long, 350, per dozen.....	.08	2.33	.08	2.33	.07	2.04
Emery cloth, ordinary size and quality, 50 sheets.....per sheet.....	.02 ¹ ₄	1.13	.03	1.50	.03	1.50
White pine spiles, ordinary size, 650...per 100.....	.06 ¹ ₂	.42	.04	.26	.05	.33
Propeller wheels, cast steel, bored and key- seated, all complete (templet and pattern furnished by the United States), 500 pounds.....per pound.....	.08 ¹ ₂	42.50	.08	40.00	.09	45.00
Propeller wheels, cast iron, bored and key- seated, all complete (templet and pattern furnished by the United States), 500 pounds.....per pound.....	.05 ¹ ₂	27.50	.06	30.00	.07	35.00

Abstract of proposals for furnishing labor and materials for emergency repairs to the United States floating plant on Delaware River belonging to the United States Engineer Department, opened April 26, 1909, by Maj. Herbert Deakyne, Corps of Engineers—Cont'd.

		Name and address of bidders.					
		(1) Kensington Shipyard Co., Philadelphia, Pa.		(2) Quigley, Da- vis & Dorp, Camden, N. J.		(3) The Griscom- Spencer Co., New York, N. Y.	
Price.	Total.	Price.	Total.	Price.	Total.	Price.	Total.
USE OF TOOLS.							
Large lathe, with tools, 1,500 hours..per hour.	\$0.25	\$375.00	\$0.30	\$450.00	\$0.30	\$450.00	
Small lathe, with tools, 1,000 hours..do.	.05	50.00	.05	50.00	.15	150.00	
Large drill press, 700 hours.....do.	.25	175.00	.30	210.00	.30	210.00	
Small drill press, 100 hours.....do.	.05 $\frac{1}{2}$	5.50	.05	5.00	.15	15.00	
Large planer, 500 hours.....do.	.25	125.00	.30	150.00	.30	150.00	
Small planer, 100 hours.....do.	.12 $\frac{1}{2}$	12.50	.20	20.00	.15	15.00	
Punching machine, 50 hours.....do.	.23	11.50	.20	10.00	.30	15.00	
Shearing machine, 50 hours.....do.	.23	11.50	.20	10.00	.30	15.00	
Bolt cutter, 150 hours.....do.	.15	22.50	.20	30.00	.25	37.50	
Pipe cutter, 50 hours.....do.	.12 $\frac{1}{2}$	6.25	.05	2.50	.25	12.50	
Shaping machine, 100 hours.....do.	.07 $\frac{1}{2}$	7.50	.20	20.00	.25	25.00	
Boring machine, with tools, 50 hours.....do.	.30	15.00	.20	10.00	.30	15.00	
Circular saw (wood), 100 hours.....do.	.20	20.00	.10	10.00	.10	10.00	
Planer (wood), 50 hours.....do.	.12	6.00	.10	5.00	.10	5.00	
Band saw (wood), 50 hours.....do.	.10	5.00	.20	10.00	.10	5.00	
Shop crane, 50 hours.....do.	.01	.50	.01	.50	.01	.50	
Shear legs, 100 hours.....do.	.01	1.00	.01	1.00	.01	1.00	
Rigging and chains, 400 hours.....do.	.01	4.00	.01	4.00	.01	4.00	
Steam hammer, with tools, 150 hours do.	.20	30.00	.25	37.50	.30	45.00	
Bending rolls, 50 hours.....do.	.10	5.00	.05	2.50	.20	10.00	
Bending machine, 50 hours.....do.	.30	15.00	.05	2.50	.75	37.50	
Bending furnace, 50 hours.....do.	.40	20.00	.40	20.00	.75	37.50	
Trucks, 200 hours.....do.	.05	10.00	.01	2.00	.01	2.00	
Running shop engine overtime, 200 hours.....per hour.	.50	100.00	.50	100.00	.75	150.00	
Jacks, 100 hours.....do.	.10	10.00	.01	1.00	.01	1.00	
Use of files, 300 hours.....do.	.01	3.00	.01	3.00	.01	3.00	
Derrick scow, 150 hours.....do.	.50	75.00	.50	75.00	9.00	1,350.00	
FOR USE OF AIR TOOLS.							
Air-operated riveting hammers, 1,500 hours.....per hour.	.20	300.00	.....	.....	.10	150.00	
Air-operated chipping or caulking tools, 1,500 hours.....per hour.	.10	150.00	.....	.....	.10	150.00	
Air-operated steel twist drills, 1,500 hours.....per hour.	.25	375.00	.....	.....	.10	150.00	
Air-operated wood augers, 200 hours.....do.	.20	40.00	.....	.....	.10	20.00	
HAULING OUT VESSELS.							
Hauling out steamers Vidette, Philadelphia, Humphreys, Launch Schuylkill, on railway, 5 hauls.....each.	12.00	60.00	12.00	60.00	15.00	75.00	
Lay days, for each steamer, 5 per lay day each.	6.00	30.00	6.00	30.00	7.50	37.50	
Hauling out scows or dredges less than 100 feet long, 2 hauls.....each.	12.00	24.00	12.00	24.00	15.00	30.00	
Lay days for scows or dredges less than 100 feet long, 5.....per lay day each.	6.00	30.00	6.00	30.00	7.50	37.50	
Hauling out scows or dredges over 100 feet long, 2 hauls.....each.	18.00	36.00	18.00	36.00	25.00	50.00	
Lay days for scows or dredges over 100 feet long, 5.....per lay day each.	9.00	45.00	9.00	45.00	12.50	62.50	
Total.....		17,359.02		17,033.03		20,110.50	

Contract (dated May 1, 1909) entered into with the Kensington Shipyard Company.

WILMINGTON, DELAWARE, DISTRICT.

[Officer: Capt. L. H. Rand, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging Raccoon Creek, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, Wilmington, Del., in response to printed notice, and opened March 26, 1909.

No.	Name and address of bidder.	For dredging per cubic yard place measurement.	Time of beginning work.	Time of completion.
1	River and Harbor Improvement Co., Philadelphia, Pa.	<i>Cents.</i> 15.9	Within 30 days after date of approval of contract.	6 months after starting work.
2	Edward F. Fonder, Philadelphia, Pa.....	13.9		
3	The Rickards Dredging Co., Philadelphia, Pa...	<i>a</i> 11.8		

a Acceptance recommended.

Abstract of proposals for dredging Alloway Creek, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, Wilmington, Del., in response to printed notice, and opened December 30, 1908.

No.	Name and address of bidder.	For dredging per cubic yard place measurement.	Time of beginning work after date of contract.	Time of completion of work after date of contract.
1	The Rickards Dredging Co., Philadelphia, Pa...			
2	American Dredging Co., Philadelphia, Pa.....	<i>Cents.</i> <i>a</i> 9 11 $\frac{1}{2}$	10 days.....	10 weeks.

a Accepted.

Abstract of proposals for dredging Tuckerton Creek, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, Wilmington, Del., in response to advertisement, and opened October 30, 1908.

No.	Name and address of bidder.	For dredging per cubic yard place measurement.	Time of beginning work after notification of acceptance of proposal.	Time of completion of work after notification of acceptance of proposal.
1	River and Harbor Improvement Co., Philadelphia, Pa.	<i>Cents.</i> 33	Apr. 1, 1909.....	Aug. 31, 1909.
2	The Rickards Dredging Co., Philadelphia, Pa...	<i>a</i> 28	60 days ^b	5 months. ^b

a Acceptance recommended.

b January and February not counted.

Abstract of proposals for dredging harbor at Wilmington, Delaware, received by Maj. C. A. F. Flagler, Corps of Engineers, Wilmington, Del., in response to written notice, and opened July 13, 1908.

No.	Name and address of bidder.	For dredging per cubic yard place measurement.	Time of beginning work after notification of acceptance of proposal.	Time of completion of work after notification of acceptance of proposal.
1	The Rickards Dredging Co., Philadelphia, Pa...	Cents. 19½	30 days.....	5 months.

Only bid received. Accepted.

Abstract of proposals for dredging harbor at Wilmington, Del., received by Capt. L. H. Rand, Corps of Engineers, Wilmington, Del., in response to advertisement, and opened April 30, 1909.

No.	Name and address of bidder.	For dredging per cubic yard, place measurement.	Time of beginning work after notification of approval of contract.	Time of completion of work after notification of approval of contract.
1	Miner Engineering Co., Washington, D. C.	Cents. 24	30 days.....	To dredge not less
2	The Rickards Dredging Co., Philadelphia, Pa...	18	180 days.....	than 1,200 cubic yards per day.
3	American Dredging Co., Philadelphia, Pa.....	a 18½	30 days.....	

^a Recommended for acceptance, it being the lowest bid to commence the work within the time prescribed by the specifications.

Abstract of proposals for furnishing the materials and doing the jetty work required at mouth of Broadkill River, Delaware, received by Capt. L. H. Rand, Corps of Engineers, in response to circular letter, and opened October 21, 1908.

No.	Name and address of bidder.	Time of beginning work after date of notification of acceptance of proposal.		Time of completion of work after date of notification of acceptance of proposal.		90 pine piles, 12" butts, 45' long.	110 pine piles, 12" butts, 30' long.	90 pine piles, 12" butts, 20' long.	6 pieces, 6" x 12" wales, 18' long.	500 cubic yards stone.	180 cords of brush.	200 1" square drift bolts, 15" long.	10 tie rods, 1" diameter, 7½" long, including nuts and ½" square washers	Total.	
		Days.	Days.	Each.	Each.										
1	Latta & Terry Construction Co., Philadelphia, Pa.	7	30	\$13.00	\$7.00	\$5.90	\$7.50	\$4.84	\$6.86	\$0.20	\$1.00	\$5,206.80			
2	Conwell & Co., Milton, Del.	5	20					3,922	4.44						
3	Tatnall-Brown Co., Wilmington, Del..	15	120	8.00	5.50	4.00	6.00	a 4.50	5.00	.20	1.00	b4,297.00			

^a Concrete, 1.4 or 1.35, in place of stone, \$6.50 per cubic yard. Time to complete using concrete, 60 days.

^b Lowest; accepted.

WRECKS.

Abstract of proposals for removing two wrecks and eighteen logs and stumps lying in the channel of the upper Christiana River, Delaware, received by Maj. C. A. F. Flagler, Corps of Engineers, Wilmington, Del., in response to written notice, and opened June 29, 1908.

No.	Name and address of bidder.	Price.	Time of beginning work after award of contract.	Time of completion of work after award of contract.
1	Van Sant & Gandy, Atlantic City, N. J.....	\$442		
2	Napoleon B. Register, Lewes, Del.....	543		
3	Capt. John J. Williams, Chester, Pa.....	750		
4	Emil F. Petterson, Wilmington, Del.....	^a 223	10 days.....	60 days.
5	Frank R. Jones, Wilmington, Del.....	244		
6	Frank Craemer, Philadelphia, Pa.....	600		
7	Arnold Naudain, Marshallton, Del.....	340		
8	George M. Fitzpatrick, Wilmington, Del.....	265		

^a Lowest; accepted.

Abstract of proposals for removing wreck of schooner Florence I. Lockwood, lying sunk in channel of Chincoteague Inlet, Virginia, received by Capt. L. H. Rand, Corps of Engineers, in response to advertisement, and opened September 24, 1908.

No.	Name and address of bidder.	Price.	Time of beginning work after date of notification of acceptance of proposal.	Time of completion after date of notification of acceptance of proposal.
1	Napoleon B. Register and Edward J. Suthard, Jr., Lewes, Del.	\$1,417		
2	Johnston & Virden, Lewes, Del.....	^a 690		
3	Wm. C. Bunting and Harry White, Chincoteague, Va.	2,450		
4	Eugene Boehm, Atlantic City, N. J., and Japhet Townsend, Somers Point, N. J.	761	20 days.....	2 months.
5	Jno. B. Wheaton, Jr., Norfolk, Va.....	2,732		
6	Frank R. Jones, Wilmington, Del.....	1,194		

^a Lowest; accepted.

Abstract of proposals for removing wreck of steamship Gulf Stream, lying sunk at entrance to Hereford Inlet, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, at Wilmington, Del., in response to advertisement, and opened November 5, 1908.

No.	Name and address of bidder.	Price.	Time of beginning work after date of notification of acceptance of proposal.	Time of completion after date of notification of acceptance of proposal.
1	Merritt & Chapman Derrick and Wrecking Co., New York City.	\$9,860		
2	Van Sant & Gandy, Atlantic City, N. J.....	4,682		
3	Napoleon B. Register, Lewes, Del.....	3,813		
4	Eugene Boehm, Atlantic City, N. J.....	^a 1,512	15 days.....	45 days.
5	Johnston & Virden, Lewes, Del.....	1,540		
6	Frank R. Jones, Wilmington, Del.....	4,400		
7	Jesse A. Gray, Philadelphia, Pa.....	1,950		

^a Lowest; accepted.

Abstract of proposals for removing wreck of barge Homeward Bound, lying sunk in Mantua Creek, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, at Wilmington, Del., in response to circular letter, and opened November 30, 1908.

No.	Name and address of bidder.	Price.	Time of beginning work after date of notification of acceptance of proposal.	Time of completion after date of notification of acceptance of proposal.
1	N. B. Register, Lewes, Del.	\$317		
2	Emil F. Pettersen, Wilmington, Del.	403		
3	W. Scott Thomson, Paulsboro, N. J.	220		
4	Eugene Boehm, Atlantic City, N. J.	^a 189		
5	Jesse A. Gray, Philadelphia, Pa.	338		
6	Fred Craemer, Philadelphia, Pa.	500		
7	Arnold Naudain, Marshallton, Del.	268	20 days.....	2 months.
8	Capt. J. J. Williams, Chester, Pa.	325		
9	G. M. Van Sant, Atlantic City, N. J.	482		
10	Frank R. Jones, Wilmington, Del.	272		
11	Johnston & Virden, Lewes, Del.	275		

^a Lowest; accepted.

Abstract of proposals for removing wrecks of barges Sally and Bennie, lying in Oldmans Creek, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, at Wilmington, Del., in response to circular letter, and opened January 13, 1909.

No.	Name and address of bidder.	Price.	Time of beginning work after date of contract.	Time of completion after date of contract.
1	Eugene Boehm, Atlantic City, N. J.	^a \$342		
2	Arnold Naudain, Marshallton, Del.	520		
3	Jesse A. Gray, Philadelphia, Pa.	375		
4	N. B. Register, Lewes, Del.	397		
5	Frank R. Jones, Wilmington, Del.	548		
6	Warren & Conoway, Wilmington, Del.	364	10 days.....	1 month.
7	John J. Williams, Chester, Pa.	550		
8	Johnston & Virden, Lewes, Del.	586		
9	Van Sant & Gandy, Atlantic City, N. J.	881		
10	Mark Townsend, Linwood, N. J.	700		

^a Lowest; accepted.

Abstract of proposals for removing wreck of steam yacht Viva, lying sunk in Absecon Inlet, New Jersey, received by Capt. L. H. Rand, Corps of Engineers, at Wilmington, Del., in response to circular letter, and opened April 10, 1909.

No.	Name and address of bidder.	Price.	Time of beginning work after date of notification of acceptance of proposal.	Time of completion after date of notification of acceptance of proposal.
1	Emil F. Pettersen, Wilmington, Del.	\$385		
2	Jesse A. Gray, Philadelphia, Pa.	540		
3	Charles N. Johnston, Lewes, Del.	317		
4	N. B. Register, Lewes, Del.	397		
5	Eugene Boehm, Atlantic City, N. J.	142	10 days.....	1 month.
6	Van Sant & Gandy, Atlantic City, N. J.	^a 69		

^a Lowest; accepted.

BALTIMORE, MARYLAND, DISTRICT.

[Officer: Maj. W. E. Craighill, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Claiborne Harbor, Elk, Chester, Warwick, La Trappe, Wicomico, Pocomoke, Nanticoke, and Broad Creek rivers, opened at 1 o'clock p. m. June 7, 1909, by Maj. W. E. Craighill, Corps of Engineers, in accordance with advertisements and specifications dated May 3, 1909.

[Appropriations: Emergencies in river and harbor improvements and preservation and maintenance of river and harbor works.]

Works.	Approximate quantity, in cubic yards.	Name and address of bidder.					
		(1) Miner Engineering Co., Washington, D. C.		(2) Maryland Dredging and Contracting Co., Baltimore, Md.		(3) River and Harbor Improvement Co., Philadelphia, Pa.	
		Price per cubic yard.	Total.	Price per cubic yard.	Total.	Price per cubic yard.	Total.
Claiborne Harbor.	90,400						
Elk River.	75,300						
Chester River.	37,700						
Warwick River.	22,600						
La Trappe River.	22,600						
Wicomico River.	37,700						
Pocomoke River.	18,800						
Nanticoke River.	15,000						
Broad Creek River	15,000						
For the whole work.	335,100	17.4	\$58,307.40	13.9	\$46,578.90	11.95	\$40,044.45
Will complete in.		14 months.		12 months.		16 calendar months.	

Works.	Approximate quantity, in cubic yards.	Name and address of bidder.					
		(4) Atlantic Dredging Co., Philadelphia, Pa.		(5) L. M. Lewis Dredging Co. (Incorporated), Norfolk, Va.			
		Price per cubic yard.	Total.	Price per cubic yard.	Total.		
Claiborne Harbor.	90,400						
Elk River.	75,300						
Chester River.	37,700						
Warwick River.	22,600						
La Trappe River.	22,600						
Wicomico River.	37,700						
Pocomoke River.	18,800						
Nanticoke River.	15,000						
Broad Creek River	15,000						
For the whole work.	335,100	14.375	\$48,170.63	12.5	\$41,887.50		
Will complete in.		12 months.		14 months.			

Amount available for the work, \$44,500.

Contract with River and Harbor Improvement Company, Philadelphia, Pa.

Abstract of proposals for dredging in above-named improvement opened at 1 o'clock p. m. June 1, 1909, by Maj. W. E. Craighill, Corps of Engineers, under advertisement dated April 27, 1909.

[Appropriation: Improving Patapsco River, Maryland.]

No.	Name and address of bidder.	Price per cubic yard.	Total.		
				Cents.	
1	Coastwise Dredging Co., Norfolk, Va.	5.6	\$84,000		
2	Sanford & Brooks Co., Baltimore, Md.	6.9	103,500		
3	American Dredging Co., Philadelphia, Pa.	6.25	93,750		
4	Maryland Dredging and Contracting Co., Baltimore, Md.	5.0	75,000		
5	Standard Dredging Co., Wilmington, Del.	7.2	108,000		
6	P. Sanford Ross (Incorporated), Jersey City, N. J.	6.7	100,500		

Date of completion: Nineteen calendar months after date of notification of approval of contract by the Chief of Engineers.

Approximate quantity, 1,500,000 cubic yards.

Amount available for the work, \$150,000.

Contract with Maryland Dredging and Contracting Company, Baltimore, Md.

Abstract of proposals for dredging in above-named improvements, opened at 1 o'clock p. m., May 24, 1909, by Maj. W. E. Craighill, Corps of Engineers, U. S. Army, under advertisement dated April 21, 1909.

[Appropriation for preservation and maintenance of river and harbor works. Allotments: Southwest Baltimore Harbor, Curtis Bay channel.]

No.	Name and address of bidder.	Price per cubic yard.	Total.		
				Cents.	Remarks.
1	Coastwise Dredging Co., Norfolk, Va.	12.5	\$46,250		
2	Maryland Dredging and Contracting Co., Baltimore, Md.	11.5	42,550		
3	Sanford & Brooks Co., Baltimore, Md.	9.9	36,630	Lowest.	

Date of completion: Six calendar months after date of notification of approval of contract by the Chief of Engineers.

Approximate quantity, 370,000 cubic yards.

Amount available for the work, \$42,900.

Contract with Sanford & Brooks Co., Baltimore, Md.

WASHINGTON, DISTRICT OF COLUMBIA, DISTRICT.

[Officer: Maj. Jay J. Morrow, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering lumber for construction of dikes in York River, Virginia, received in response to advertisement dated August 20, 1908, and opened at the United States Engineer Office, Twenty-second and K streets NW., Washington, D. C., at 12 m., September 9, 1908, by Maj. Spencer Cosby, Corps of Engineers.

[Appropriation for improving York, Mattaponi, and Pamunkey rivers, and Occoquan, Lower Machodoc, Nandua, Aquia, and Carters creeks, Virginia.]

No.	Name and address.	Lumber, furnishing and delivering 113,280 feet b. m., \pm 30 per cent.			
		As designated in paragraph 20 of the specifications.		As designated in paragraph 20 A of the specifications.	
		Per M.	Total.	Per M.	Total.
1	G. S. Briggs & Co., Norfolk, Va.				\$18.00
2	Old Dominion Paper Co., Norfolk, Va.	\$27.50	\$3,115.20		\$2,039.04
3	Southampton Lumber Co., Norfolk, Va.	20.15	2,282.59	19.00	2,152.32
4	Carter & Clarke, Washington, D. C.			18.30	2,073.02
5	Andrew Miller, Baltimore, Md.	22.75	2,577.12		
6	William D. Gill & Son, Baltimore, Md.			19.95	2,259.94
7	Jno. H. Traut, jr., Norfolk, Va.	21.00	2,378.88		
8	Denmead Bros., Westpoint, Va.	18.00	2,039.04	18.75	2,124.00
9	G. Elias & Bro., Buffalo, N. Y.			24.75	2,803.68
10	Building and Lumber Co., Greenville, N. C.	20.75	2,350.56	19.75	2,237.28
11	Morgan Treat, Westpoint, Va.	21.50	2,435.52		

Abstract of proposals for furnishing and delivering piles for reconstruction of dikes in Pamunkey River, Virginia, received in response to advertisement dated August 20, 1908, and opened at the United States Engineer Office, Twenty-second and K streets NW., Washington, D. C., at 12 m., September 9, 1908, by Maj. Spencer Cosby, Corps of Engineers.

[Appropriation for improving York, Mattaponi, and Pamunkey rivers, and Occoquan, Lower Machodoc, Nandua, Aquia, and Carters creeks, Virginia.]

No.	Name and address of bidder.	Piles (furnishing and delivering 20,034 linear feet, \pm 30 per cent).			
		As designated in paragraph 20 of the specifications.		As designated in paragraph 21 of the specifications.	
		Per linear foot.	Total.	Per linear foot.	Total.
		Cents.		Cents.	
1	G. S. Briggs & Co., Norfolk, Va.	7 $\frac{1}{2}$	\$1,552.64	8	\$1,602.72
2	Crockett Lumber and Pile Co., Norfolk, Va.	10	2,003.40	9	1,803.06
3	Southampton Lumber Co., Norfolk, Va.	(5 $\frac{1}{2}$) 5 $\frac{3}{4}$	1,076.83	(5 $\frac{1}{2}$) 5 $\frac{3}{4}$	1,076.83
4	Andrew Miller, Baltimore, Md.	6 $\frac{1}{2}$	1,277.17		
5	Geo. R. Johnson, Baltimore, Md.	(5 $\frac{1}{2}$) 5 $\frac{1}{2}$	1,081.84	(5 $\frac{1}{2}$) 5 $\frac{1}{2}$	1,041.77
6	Culpepper & Co., Baltimore, Md.	6 $\frac{1}{2}$	1,302.21	6	1,202.04
7	J. A. Reynolds & Bro., New York City	8 $\frac{1}{2}$	1,702.89	8 $\frac{1}{2}$	1,652.80
8	Jno. H. Traut, jr., Norfolk, Va.	7 $\frac{1}{2}$	1,552.63	7 $\frac{1}{2}$	1,552.63
9	Silas W. Eubank, Kilmarnock, Va.				
10	Morgan Treat, West Point, Va.	9 $\frac{1}{2}$	1,903.23	8 $\frac{1}{2}$	1,702.89

Abstract of proposals for furnishing building stone in Potomac Park, received in response to advertisement dated March 1, 1909, and opened at United States Engineer Office, 920 Seventeenth street NW., Washington, D. C., at 12 m., March 31, 1909, by Maj. Jay J. Morrow, Corps of Engineers.

[Appropriation for improving Potomac River.]

No.	Name and address of bidder.	For 2,000 cubic yards of building stone, more or less, delivered as specified.	
		Per cubic yard.	Total.
1	L. E. Smoot, Washington, D. C.....	\$2.48	\$4,960
2	McClenahan Granite Co., Port Deposit, Md.....	3.35	6,700
3	Columbia Granite and Dredging Corporation, Washington, D. C.....	2.75 or 2.20	{ 5,500
4	McCormick & Co., Philadelphia, Pa.....	3.00	4,400 6,000

Abstract of proposals for furnishing and placing riprap stone on sea wall, Anacostia River, District of Columbia, received in response to advertisement dated March 1, 1909, and opened at United States Engineer Office, 920 Seventeenth street NW., Washington, D. C., at 12 m., March 31, 1909, by Maj. Jay J. Morrow, Corps of Engineers.

[Appropriation for improving Anacostia River, District of Columbia.]

No.	Name and address of bidder.	For 5,000 cubic yards of riprap stone, more or less, furnished and placed on sea wall, Anacostia River, D. C.	
		Per cubic yard.	Total.
1	William L. Miller, Boston, Mass.....	\$1.54	\$7,700
2	L. E. Smoot, Washington, D. C.....	1.38	6,900
3	National Mortar Co., Washington, D. C.....	1.39	6,950
4	McClenahan Granite Co., Port Deposit, Md.....	2.23	11,150
5	Columbia Granite and Dredging Corporation, Washington, D. C.....	1.27 $\frac{1}{2}$	6,375
6	McCormick & Co., Philadelphia, Pa.....	2.40	12,000

Abstract of proposals for furnishing and installing one set lock gates, with operating mechanism, and eight curtain gates, with operating mechanism, in bridge at inlet to tidal basin, Potomac Park, Washington, D. C., received in response to advertisement dated March 13, 1909, and opened at United States Engineer Office, 920 Seventeenth street NW., Washington, D. C., at 12 m. April 12, 1909, by Maj. Jay J. Morrow, Corps of Engineers.

[Appropriation for improving Potomac River.]

No.	Name and address of bidder.	Lock gates complete, including operating mechanism.	Curtain gates complete, including operating mechanism.	Total.	
1	Hoisting Machinery Co., New York, N. Y.....	\$4,900	\$9,700	\$14,600	
2	Penn Bridge Co., Beaver Falls, Pa.....	3,720	8,340	12,060	
3	G. & W. Manufacturing Co., New York, N. Y.....			8,997	
4	New Jersey Foundry and Machine Co., New York, N. Y....	4,550	9,830	14,380	

Abstract of proposals for constructing riprap jetties in Nomini and Urbana creeks and Rappahannock River, Virginia, received in response to advertisement dated April 17, 1909, and opened at United States Engineer Office, 920 Seventeenth street NW., Washington, D. C., at 12 m. May 17, 1909, by Maj. Jay J. Morrow, Corps of Engineers.

[Appropriation for improving Rappahannock River, Virginia. Preservation and maintenance of river and harbor works. Nomini Creek, Virginia. Urbana Creek, Virginia.]

No.	Items.	Names and addresses of bidders.			
		(1) Columbia Granite and Dredging Corporation, Washington, D. C.		(2) Chesapeake Stevedore Co., Baltimore, Md.	
		Unit price.	Total.	Unit price.	Total.
1	300 cubic yards riprap stone, more or less, at Nomini Creek.	\$2.50	\$750	\$2.60	\$780
2	1,000 cubic yards riprap stone, more or less, at Urbana Creek.	2.50	2,500	2.64	2,640
3	1,800 cubic yards riprap stone, more or less, at Rappahannock River.	3.50	6,300	2.40	4,320
	Total.		9,550		7,740

Abstract of proposals for furnishing and delivering lumber on York River, Virginia, received in response to advertisement dated April 17, 1909, and opened at the United States Engineer Office, 920 Seventeenth street NW., Washington, D. C., at 12 m. May 7, 1909, by Maj. Jay J. Morrow, Corps of Engineers.

[Appropriation for preservation and maintenance of river and harbor works, York River, Virginia.]

No.	Name and address of bidder.	Lumber (furnishing and delivering 401,050 feet b. m. ± 30 per cent).	
		Per M.	Total.
1	William D. Gill & Son, Baltimore, Md.	\$19.60	\$7,860.58
2	R. P. Clarke Co., Alexandria, Va., and Washington, D. C.	17.80	7,138.69
3	Culpepper & Co., Baltimore, Md.	20.40	8,181.42
4	Geo. R. Johnson, Baltimore, Md.	21.95	8,803.05
5	G. Elias & Bro., Buffalo, N. Y.	24.00	9,625.20
6	Denmead Bros., Westpoint, Va.	19.00	7,619.95
7	American Lumber and Manufacturing Co., Pittsburgh, Pa.	27.50	11,028.88
8	G. S. Briggs & Co., Norfolk, Va.	20.90	8,381.95
9	Carter & Clarke, Washington, D. C.	20.45	8,201.47

Abstract of proposals for furnishing and delivering materials for construction of inlet gate and bridge at tidal reservoir, received in response to advertisement dated June 4, 1908, and opened at the United States Engineer Office, Twenty-second and K streets NW, Washington, D. C., at 12 m., June 24, 1908, by Capt. E. J. Dent, Corps of Engineers.

[Appropriation for improving Potomac River.]

No.	Name and address.	Furnishing and delivering 7,000 barrels, $\pm 1,400$ barrels of Portland cement.			Return of sacks.		3,800 cubic yards, ± 750 cubic yards, 2-inch broken stone or gravel.			
		Brand.	Unit.	Total.	Serviceable.	Repairable.	Stone.		Gravel.	
							Unit.	Total.	Unit.	Total.
1	Columbia Granite and Dredging Co., Washington, D. C.	Giant.....	\$1.62	\$11,340	\$0.075	.....	\$1.40	\$5,320	\$0.85	\$3,230
2	L. E. Smoot, Washington, D. C.	.....					1.48	5,624	.65	2,470
4	Pennsylvania Cement Co., New York City.	Pennsylvania...	1.55	10,850	.075	.....			
5	Dexter Portland Cement Co., Philadelphia, Pa.	Dexter.....	1.65	11,550	.075	\$0.075				
6	Atlas Portland Cement Co., New York City.	Atlas.....	1.65	11,550	.075	.075				
7	Universal Portland Cement Co., Chicago, Ill.	Universal.....	1.59	11,130	.100	.100				
8	Lehigh Portland Cement Co., Allentown, Pa.	Lehigh.....	1.65	11,550	.075	.075				
11	Potomac Dredging Co., Washington, D. C.	.....							.70	2,660
12	Grove Lime and Coal Co., Washington, D. C.	Alpha.....	1.68	11,760	.075	.050				
13	National Mortar Co., Washington, D. C.	Old Dominion..	1.475	10,325	.075	.055				
14	Potomac Granite Co., Washington, D. C.	.....					1.24	4,712		

No.	Name and address.	1,200 cubic yards, ± 250 cubic yards, 1-inch broken stone.		3,000 cubic yards, ± 600 cubic yards, sand.		74,000 pounds, ± 10 per cent, reinforcing steel.				Demur- rage for scows per day.	
		Unit.	Total.	Unit.	Total.	Type.	Unit.	Total.			
1	Columbia Granite and Dredging Co., Washington, D. C.	\$1.70	\$2,040	\$0.45	\$1,350	.....				\$4
2	L. E. Smoot, Washington, D. C.	1.59	1,908	.40	1,200	.....				5
3	Hoisting Machinery Co., New York City.	.....					\$1.73	\$1,280.20		
9	Trussed Con. Steel Co., Detroit, Mich.	.....					{ 1.90	1,406.00		
10	General Fireproofing Co., Youngstown, Ohio.	.....					2.85	2,109.00		
11	Potomac Dredging Co., Washington, D. C.	.....					1.95	1,443.00		
14	Potomac Granite Co., Washington, D. C.	.....								7
15	J. B. Kendall, Washington, D. C.	1.34	1,608				1.72	1,272.80		5	

Abstract of proposals for furnishing and delivering bituminous coal for the Washington Aqueduct, received in response to advertisement dated March 21, 1908, and opened at the United States engineer office, corner Twenty-second and K streets NW., Washington, D. C., at 12 m., April 20, 1908, by Maj. Spencer Cosby, Corps of Engineers.

[Maintenance Washington Aqueduct, D. C., 1909. Maintenance Washington Aqueduct, D. C., 1908. Dredging Dalecarlia reservoir.]

No.	Name and address of bidder.	Name of coal and location.	3,600 tons, filtration plant pumping station.		15 tons, east shaft pumping station.		15 tons, Champlain avenue pumping station.	
			Per ton.	Total.	Per ton.	Total.	Per ton.	Total.

1	Merchants Coal Co., Washington, D. C.	Orenda, Orenda mines, Boswell, Pa. Elk Lick No. 3, Salisbury, Pa.	\$3.52	\$12,672	-----	-----	-----	-----
2	J. Maury Dove Co., Washington, D. C.	Big Vein Georges Creek, Ocean, Allegany County, Md.	3.32	11,952	-----	-----	-----	-----
3	J. Edw. Chapman, Washington, D. C.	Big Vein Georges Creek, Consolidation Coal Co., Maryland.	4.00	14,400	\$4.25	\$63.75	\$4.25	\$63.75
4	W. W. Griffith, Washington, D. C.	Jenner, Somerset, Pa. Big Vein Georges Creek, Consolidation Coal Co., Maryland.	3.61	12,996	3.99	59.85	4.00	60.00
5	Buck Bros., Baltimore, Md.	Big Vein Jenner, Somerset, Pa. Quemahoning, Somerset County, Pa. west Virginia Steaming, near Harrison, W. Va.	3.38	12,168	3.76	56.40	3.77	56.55
6	Maryland Coal and Coke Co., Baltimore, Md.	Big Vein, Somerset County, Pa.	3.63	13,068	3.85	57.75	4.00	60.00
7	Hatfield & Hilles, Philadelphia, Pa.	Oneida, Somerset County, Pa.	3.38	12,168	3.65	54.75	3.90	58.50
			3.47	12,492	-----	-----	-----	-----
			3.37	12,132	-----	-----	-----	-----
			3.55	12,780	-----	-----	-----	-----
			3.54	12,744	3.54	53.10	3.54	53.10

No.	Name and address of bidder.	Name of coal and location.	10 tons, Rock Creek pumping station.		600 tons Dalecarlia reservoir.	
			Per ton.	Total.	Per ton.	Total.
2	J. Maury Dove Co., Washington, D. C.	Big Vein Georges Creek, Ocean, Allegany County, Md.	\$4.35	\$43.50	\$5.15	\$3,09
		New River, Fayette County, W. Va.	-----	-----	4.90	2,940
3	J. Edw. Chapman, Washington, D. C.	Big Vein Georges Creek, Consolidation Coal Co., Maryland.	4.20	42.00	4.85	2,910
		Jenner, Somerset, Pa.	3.97	39.70	4.77	2,862
4	W. W. Griffith, Washington, D. C.	Big Vein Georges Creek, Consolidation Coal Co., Maryland.	4.50	45.00	4.90	2,940
		Big Vein Jenner, Somerset, Pa.	4.40	44.00	4.90	2,940
7	Hatfield & Hilles, Philadelphia, Pa.	Oneida, Somerset County, Pa. Irvington, Coalport, Clearfield County, Pa.	3.79	37.90	4.39	2,634

NORFOLK, VIRGINIA, DISTRICT.

[Officer: Maj. Joseph E. Kuhn, Corps of Engineers.]

Abstract of proposals received in response to written notice dated June 12, 1908, opened at 12 o'clock, noon, July 2, 1908, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for dredging in Norfolk Harbor, Virginia.

No.	Name and address of bidder.	Approximate quantity (scow measure).	Price bid per cubic yard.	Total cost at price bid.	Estimated cost per cubic yard.	Price for board and lodging.
1	Coastwise Dredging Co., Norfolk, Va.	Cu. yds. 60,000	Cents. 11 $\frac{1}{4}$	\$6,750	Cents. 10	\$20
2	Norfolk Dredging Co., Norfolk, Va.	60,000	a 10 $\frac{1}{2}$	6,420	10	20
3	John T. Bolton, Norfolk, Va.	60,000	11	6,600	10	20

a Accepted.

Abstract of proposals received in response to written notice dated June 23, 1908, opened at 12 o'clock, noon, July 2, 1908, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for constructing a pile and timber structure on Willoughby Bank, in Hampton Roads, Virginia.

No.	Name and address of bidder.	For constructing a pile and timber structure on Willoughby Bank, Hampton Roads, Virginia.
1	McLean Contracting Co., Norfolk, Va.	\$525.00
2	J. T. McMahon, Norfolk, Va.	898.00
3	Alsop & Pierce, Newport News, Va.	a 975.00
4	W. D. Murray & Co. (Incorporated), Norfolk, Va.	b 482.85

a Estimated cost, \$775.

b Accepted.

Abstract of proposals received in response to advertisement dated August 11, 1908, opened at 12 o'clock, noon, September 14, 1908, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for dredging in Hampton Roads, Virginia.

No.	Name and address of bidder.	Approximate quantity (scow measure).	Price bid per cubic yard.	Total cost at price bid.	Estimated cost per cubic yard.	Price for board and lodging.
1	L. M. Lewis Dredging Co. (Incorporated), Norfolk, Va. ^a	Cu. yds. 60,000	Cents. ^b 14 ⁵ / ₁₆	\$8,580	Cents. 18	\$20
2	Coastwise Dredging Co., Norfolk, Va.	60,000	16 ¹ / ₂	9,900	18	20
3	Norfolk Dredging Co., Norfolk, Va...	60,000	19 ³ / ₄	11,850	18	20

a Evidence of authority of president to sign not filed and date of proposal and that given in guaranty do not agree.

b Accepted.

Abstract of proposals received in response to advertisement dated August 27, 1908, opened at 12 o'clock, noon, September 30, 1908, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for dredging Nansemond River, Virginia.

No.	Name and address of bidder.	Approximate quantity (scow measure).	Price bid per cubic yard.	Total cost at price bid.	Estimated cost per cubic yard.	Price for board and lodging.
a 1	River and Harbor Improvement Co., Philadelphia, Pa.	Cu. yds. 20,000	Cents. 29	\$5,800	Cents. 20	\$15
b 2	L. M. Lewis Dredging Co. (Incorporated), Norfolk, Va.	20,000	c 15 ³ / ₄	3,080	20	20
3	Coastwise Dredging Co., Norfolk, Va.	20,000	19 ³ / ₁₆	3,880	20	20
d 4	Norfolk Dredging Co., Norfolk, Va...	20,000	15 ¹ / ₂	3,100	20	20
e 5	Atlantic Dredging Co., Philadelphia, Pa.	20,000	23	4,600	20	15

a Evidence of authority of officer signing proposal not filed.

b Evidence of authority of officer signing proposal not filed. Date of proposal as stated in guaranty incorrect.

c Accepted.

d Corporate seal of company not affixed to proposal.

e Proposal informal.

Abstract of proposals received in response to written notice dated January 4, 1909, opened at 12 o'clock, noon, January 15, 1909, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for dredging Deep Creek, Virginia.

No.	Name and address of bidder.	Approximate quantity (place measure).	Price bid per cubic yard.	Total cost at price bid.	Estimated cost per cubic yard.	Price for board and lodging.
1	Miner Engineering Co., Washington, D. C.	Cu. yds. 12,000	Cents. 27 $\frac{1}{2}$	\$3,300	Cents. 30	\$20
2	Atlantic Dredging Co., Philadelphia, Pa.	12,000	a 17	2,040	30	15
	L. M. Lewis Dredging Co., Norfolk, Va.	12,000	23 $\frac{1}{2}$	2,820	30	20
4	Norfolk Dredging Co., Norfolk, Va.	12,000	24	2,880	30	20
5	W. H. French, Norfolk, Va.	12,000	19 $\frac{1}{2}$	2,310	30	20

a Accepted.

Abstract of proposals received in response to written notice dated March 8, 1909, opened at 12 o'clock, noon, March 22, 1909, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for constructing a pile and timber structure on Willoughby Bank, in Hampton Roads, Virginia.

No.	Name and address of bidder.	For constructing a pile and timber structure on Willoughby Bank, Hampton Roads, Virginia.
1	Alsop & Pierce, Newport News, Va.	\$1,000.00
2	E. Hart, Norfolk, Va.	a 528.00
3	Tennis Construction Co., Hampton, Va.	b 927.50
4	Sanford & Brooks Co., Norfolk, Va.	753.33

a Accepted.

b Estimated cost, \$775.

Abstract of proposals received in response to written notice dated May 15, 1909, opened at 12 o'clock, noon, June 4, 1909, by Maj. Joseph E. Kuhn, Corps of Engineers, room 2, custom-house, Norfolk, Va., for dredging Appomattox River, Virginia.

No.	Name and address of bidder.	Approximate quantity (place measure).	Price bid per cubic yard.	Total cost at price bid.	Estimated cost per cubic yard.	Price for board and lodging.
1	Atlantic Dredging Co., Philadelphia, Pa.	Cu. yds. 16,000	Cents. 27 $\frac{3}{4}$	\$4,440	Cents. 25	\$18
2	W. H. French, Norfolk, Va.	16,000	28 $\frac{1}{2}$	4,560	25	20

The bids received being in excess of the estimated cost, they were rejected, and a written proposition to do the work for the sum of 25 cents per cubic yard, place measurement, accepted by me, and made the basis of a contract.

WILMINGTON, NORTH CAROLINA, DISTRICT.

[Officer: Capt. Earl I. Brown, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging, opened at 12 o'clock M., July 27, 1908, by Capt. Earl I. Brown, Corps of Engineers, Wilmington, N. C.

[Waterway from Pamlico Sound to Beaufort Inlet, North Carolina.]

No.	Name and address of bidder.	Division A, 1,800,000 cubic yards.		Division B, 1,800,000 cubic yards.		Both divisions, 3,600,000 cubic yards.		Total amount.	Price bid for board and lodg- ing of inspect- ors per month per man.
		Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.		
1	P. Sanford Ross (Incorporated), Jersey City, N. J.	<i>Cents.</i> 13 $\frac{9}{10}$	\$244,800	<i>Cents.</i>		<i>Cents.</i>		\$244,800	\$20
2	Maryland Dredging and Contracting Co., Baltimore, Md.					10 $\frac{3}{4}$	\$387,000	387,000	15
3	Atlantic Dredging Co., Philadelphia, Pa.	13 $\frac{1}{2}$	243,000	21	\$378,000			621,000	16
4	Coastwise Dredging Co., Norfolk, Va.			19 $\frac{7}{8}$	357,750			357,750	20
5	Sanford and Brooks Co., Baltimore, Md.	18	324,000	23	414,000			738,000	20
6	John Anderson, Gulfport, Miss.					11 $\frac{3}{4}$		423,000	25
7	Roderick G. Ross, Jacksonville, Fla.	9 $\frac{9}{10}$	178,200					178,200	20
8	Atlantic, Gulf and Pacific Co., New York, N. Y.	9 $\frac{1}{2}$	171,000					171,000	20
9	North American Dredging Co., New York, N. Y.	10 $\frac{3}{4}$	193,500	14 $\frac{4}{5}$ $\frac{8}{100}$	260,640	11 $\frac{7}{10}$ $\frac{4}{100}$	422,640	422,640	(a)

a No bid.

Abstract of proposals for a steel bridge near Beaufort, N. C., received in response to annexed advertisement and publicly opened at United States engineer office, Wilmington, N. C., at 12 o'clock m., January 30, 1909, by Capt. Earl I. Brown, Corps of Engineers.

[Appropriation for waterway from Pamlico Sound to Beaufort Inlet, North Carolina.]

No.	Bidder.	(1) Excavation (500 cubic yards).		(2) Embank- ment (1,500 (cubic yards).		(3) Cement (450 barrels).		(4) Concrete (450 cubic yards).	
		Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per bar- rel.	Amount.	Per cubic yard.	Amount.
1	New Jersey Foundry and Machine Co., New York, N. Y.: Through truss swing.....	\$5.70	\$2,850.00	\$0.54	\$810.00	\$2.74	\$1,233.00	\$11.22	\$5,049.00
2	Grant Wilkins, Atlanta Ga.: Through truss swing..... Plate girder swing, 26-inch depth..... Plate girder swing, 27-inch depth.....	5.78	2,890.00	.58	870.00	3.16	1,422.00	14.18	6,381.00
3	Merrell - Ruckgaber - Fraser Co., New York, N. Y.: Pony truss swing.....	7.00	3,500.00	.75	1,125.00	2.00	900.00	9.00	4,050.00
4	Schurers & Sutton Co., New York, N. Y.: Pony truss swing.....	6.50	3,250.00	1.00	1,500.00	2.15	1,192.50	9.35	4,207.50
5	G. & W. Manufacturing Co., New York, N. Y.: Through truss swing.....	6.50	3,250.00	.37	555.00	2.45	1,102.50	9.80	4,410.00
6	Crafts & Smith, Dublin, Ga.: Through truss swing..... Strauss trunnion, bascule lift, plate girder type.....	6.32	3,160.00	.48	720.00	2.45	1,102.50	6.90	3,105.00
7	Penn Bridge Co., Norfolk, Va.: Pony truss swing..... Plate girder swing..... Scherzer rolling lift, single leaf..... Scherzer rolling lift, double leaf ^a	9.30	4,650.00	.90	1,350.00	2.50	1,125.00	7.05	3,172.50
		9.30	4,650.00	.90	1,350.00	2.50	1,125.00	7.05	3,172.50
		9.30	4,650.00	.90	1,350.00	2.50	1,125.00	7.58	3,411.00
8	Southern Construction Co., Bur- lington, N. C.: Bascule lift, single leaf, Strauss.....	8.40	4,200.00	1.10	1,650.00	2.73	1,228.50	7.35	3,307.50
9	Nelson-Merrydith Co., Chambers- burg, Pa.: Through truss swing..... Bascule lift, single leaf, Strauss..... Plate girder swing..... Pony truss swing.....	3.20	1,600.00	1.33	1,995.00	2.60	1,170.00	12.00	5,400.00
		7.20	3,600.00	1.33	1,995.00	2.60	1,170.00	12.20	5,490.00
		3.20	1,600.00	1.33	1,995.00	2.60	1,170.00	12.00	5,400.00
		3.20	1,600.00	1.33	1,995.00	2.60	1,170.00	12.00	5,400.00
10	Roanoke Bridge Co., Rock Hill, S. C.: Through truss swing.....	4.90	2,450.00	1.56	2,340.00	2.22	990.00	10.45	4,702.50
11	Owego Bridge Co., Greensboro, N. C.: Through truss swing.....	8.52	4,260.00	.66	990.00	2.00	900.00	8.25	3,712.50

^a Lump-sum bid.

Abstract of proposals for a steel bridge near Beaufort, N. C., received in response to annexed advertisement and publicly opened at United States engineer office, Wilmington, N. C., at 12 o'clock m., January 30, 1909, by Capt. Earl I. Brown, Corps of Engineers—Con.

No.	Bidder.	(5) Iron and steel (125,000 pounds).		(6) Timber (20,000 feet).		(7) Piling (1,800 feet).		Amount.
		Per pound.	Amount.	Per M feet.	Amount.	Per foot.	Amount.	
1	New Jersey Foundry and Machine Co., New York, N. Y.: Through truss swing.....	\$0.0554	\$6,925.00	\$68.00	\$1,360.00	\$0.70	\$1,260.00	\$19,487.00
2	Grant Wilkins, Atlanta, Ga.: Through truss swing..... Plate girder swing, 26-inch depth..... Plate girder swing, 27-inch depth.....	.07	8,750.00	58.12	1,162.40	.72	1,314.00	22,784.40
								19,650.00
								20,940.00
3	Merrell - Ruckgaber - Fraser Co., New York, N. Y.: Pony truss swing.....	.055	6,875.00	40.00	800.00	1.00	1,000.00	19,050.00
4	Schurers & Sutton Co., New York, N. Y.: Pony truss swing.....	.0625	7,812.50	55.00	1,100.00	1.00	1,800.00	20,862.50
5	G. & W. Manufacturing Co., New York, N. Y.: Through truss swing.....	.065	8,125.00	60.00	1,200.00	.35	630.00	16,347.50
6	Crafts & Smith, Dublin, Ga.: Through truss swing..... Strauss trunnion, bascule lift, plate girder type.....	.0555	8,187.50	80.00	1,600.00	.62	1,116.00	18,991.00
7	Penn Bridge Co., Norfolk, Va.: Pony truss swing..... Plate girder swing..... Scherzer rolling lift, single leaf, Scherzer rolling lift, double leaf ^a.....	.0545	6,812.50	52.00	1,040.00	.30	540.00	18,690.00
		.06842	8,552.50	52.00	1,040.00	.30	540.00	20,430.00
		.0558	8,225.00	52.00	1,040.00	.30	540.00	20,341.00
								21,760.00
8	Southern Construction Co., Burlington, N. C.: Bascule lift, single leaf, Strauss.....	.063	7,875.00	73.50	1,470.00	.42	756.00	20,487.00
9	Nelson-Merydith Co., Chambersburg, Pa.: Through truss swing..... Bascule lift, single leaf, Strauss..... Plate girder swing..... Pony truss swing.....	.06305	7,881.00	62.00	1,240.00	1.00	1,800.00	21,086.00
		.0784	9,800.00	62.00	1,240.00	1.00	1,800.00	25,095.00
		.0709	7,612.50	62.00	1,240.00	1.00	1,800.00	20,817.50
10	Roanoke Bridge Co., Rock Hill S. C.: Through truss swing.....	.0638	7,975.00	62.00	1,240.00	1.00	1,800.00	21,180.00
11	Owego Bridge Co., Greensboro, N. C.: Through truss swing.....	.0527	6,587.50	66.00	1,320.00	.27	486.00	18,885.00
		.0667	8,337.50	60.00	1,200.00	.48	864.00	20,264.00

^a Lump-sum bid.

CHARLESTON, SOUTH CAROLINA, DISTRICT.

[Officer: Capt. Earl I. Brown, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for creosoted lumber and rubble stone for the construction of sea wall, Fort Moultrie, S. C., received in response to newspaper advertisement dated August 5, 1908, and opened September 5, 1908, by Capt. E. M. Adams, Corps of Engineers, Charleston, S. C.

No.	Name and address of bidder.	Stone.			Total.	Lumber.			Remarks.
		15,000 tons large.	12,000 tons medium.	3,000 tons small.		Piles.	Wales 112.	Total.	
						336 round.	8,064 sheet.		
1	Columbia Granite and Dredging Corporation, Washington, D. C.	\$3.45	\$2.50	\$2.50	\$89,250				Surety Co.; delivery by water at wharf, Sullivan Island.
2	Winnsboro Granite Corporation, Charleston, S. C.	1.59	1.59	1.59	47,700				Surety Co.; delivery by rail.
3	Atlantic Creosoting and Wood Preserving Works, Norfolk.					\$10.50	\$3.45	\$7.67	\$32,207.84
4	Norfolk Creosoting Co., Norfolk, Va.					b11.12	b3.21	b7.55	30,467.36
5	Bowe & McKenzie, Augusta, Ga.	1.74	1.74	1.74	52,200				Certified check \$2,000; begin delivery by rail within 45 days.
6	The Casparis Stone Co., Columbus, Ohio.	1.45	1.45	1.45	43,500				Letter stating delivery on Adgers street wharf within 55 days; certified check \$4,000.
7	Southern Granite Co., Lancaster, S. C.	b1.38	b1.38	b1.38	41,400				Delivery by rail; certified check \$2,000.
8	The Wyckoff Pipe and Creosoting Co. (Incorporated), New York.					11.00	3.20	7.50	Delivery by rail; individual's guaranty.
									Begin delivery by rail within 40 days, with option of delivery by water; Surety Co.

^a Not received until after time set for opening.^b Accepted.

RIVERS AND HARBORS.

Abstract of proposals for hire (lease) of tugboat, received in response to poster and circular letter advertisement dated September 15, 1908, and opened September 25, 1908, by Capt. E. M. Adams, Corps of Engineers, Charleston, S. C.

No.	Name and address of bidder.	Name of boat.	Price per month.	Dimensions.	Tonage.	Built in	Size of engines.
1	Saml. J. Pregnall, Charleston, S. C.	{ E. H. Jackson	{ \$900	{ 90 x 17	85.06	1891	10 and 20 x 12
		Thomas Morgan		80 x 18	52.60	a1903	22 x 20
2	Micah Jenkins, Charleston S. C.	{ Ida b	550	*65 x 13	39.00	a1902	17 x 15
3	R. H. Lockwood, Charleston, S. C.	{ Henry L. Korter	498	46.2 x 13.1	30.00	a1907	12½ x 12
4	Thos. F. Webb, Charleston, S. C.	Henry Buck	779	64.7 x 16.4	50.00	a1908	18½ x 20
5	S. A. Guilds, Mount Pleasant, S. C.	Buck	697	60 x 14.6	29.00	1897	12 x 12
		Ethel	600	60 x 13	20.00	1901	10 x 12

^a Rebuilt.^b Accepted.

WRECKS.

Abstract of proposals for removal of portions of wreck of U. S. S. *Housatonic*, near entrance to Charleston Harbor, South Carolina, received in response to poster and circular letter advertisement dated October 21, 1908, and opened November 21, 1908, by Capt. E. M. Adams, Corps of Engineers, Charleston, S. C.

No.	Name and address of bidder.	Price.	Time required for—		Method proposed.	Remarks.
			Beginning.	Completion.		
1	William H. Virden, Lewes, Del.	^a \$3,240	Days. 10	Days. 30	By blasting with dynamite, and raising débris by diver, and derrick if necessary.	Surety company.
2	Mark Townsend, Linwood, N. J.	6,449	30	50	By means of explosives, and in compliance with specifications.	Guaranty incomplete; completed later. Individuals.
3	Merritt and Chapman Derrick and Wrecking Co., New York, N. Y.	7,900	20	50	Wrecking steamer or barge, with tug, and equipment of blasting appliances and divers.	Individual guaranty.

^a Accepted.

Abstract of proposals for removing the wreck of the schooner *Leonora*, Beaufort River, near Beaufort, S. C., received in response to poster and circular letter advertisement dated November 2, 1908, and opened December 2, 1908, by Capt. E. M. Adams, Corps of Engineers, Charleston, S. C.

No.	Name and address of bidder.	Price.	Method proposed.	Remarks.
1	Claghorn & Von Harten, Beaufort, S. C.	^a \$400	By means of two lighters, tow boats, chains, ropes, and pile driver.	Individuals as guaranty.
2	H. W. Crouch, jr., Mount Pleasant, S. C.	600	By means of two 100-ton lighter, one pile driver, and one tug boat.	Do.

^a Bid accepted.

SAVANNAH, GEORGIA, DISTRICT.

[Officer: Col. Dan C. Kingman, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids for dredging in waterway between Savannah, Ga., and Fernandina, Fla., received in response to advertisement and opened at Savannah, Ga., at 12 noon (eastern standard time) December 9, 1908, by Col. Dan C. Kingman, Corps of Engineers.

[Appropriation for improving waterway between Savannah, Ga., and Fernandina, Fla.]

No.	Name and address of bidder.	Dredging 100,000 cubic yards.		Board for inspectors per month.
		Rate.	Amount.	
1	Savannah Dredging Co., by Wayne Cunningham, president, Savannah, Ga.	<i>Cents</i>		
2	Atlantic Dredging Co., by John L. Grim, president, Philadelphia, Pa.	24.5	\$24,500	\$20
3	P. Sanford Ross (Incorporated), by P. Sanford Ross, president, Jersey City, N. J.	24.8	24,800	15
4	Coastwise Dredging Co., by Neil S. Stewart, secretary, Norfolk, Va.	24.4	24,400	20
5	Simons-Mayrant Co., by J. A. Hertz, president, and S. Lewis Simons, treasurer, Charleston, S. C.	26.5	26,500	20
		17.9	^a 17,900	25

^a Lowest bid.

Original estimate, 20 cents per cubic yard.

Amount available, \$19,000.

The bid of Simons-Mayrant Company, the lowest responsible bidders for the best and most suitable articles and services, was recommended for acceptance.

Abstract of bids received in response to poster and circular dated December 9, 1908, for hauling out and repairing the U. S. Dredge Savannah, and opened at Savannah, Ga., on December 19, 1908, by Col. Dan C. Kingman, Corps of Engineers.

[Appropriation for improving harbor at Savannah, Ga.]

No.	Name and address of bidder.	Total bid.	Time of docking.
1	Wm. Kehoe & Sons, Savannah, Ga.	\$14,145.00	Jan. 4, 1909
a 2	Kensington Shipyard Co., Philadelphia, Pa.	12,077.20	Jan. 15, 1909
3	Maryland Steel Co., Sparrows Point, Md.	13,182.50	Jan. 1, 1909
a 4	Merrill-Stevens Co., Jacksonville, Fla.	12,470.50	Jan. 2, 1909
5	Newport News Shipbuilding and Dry Dock Co., Newport News, Va.	12,726.00	Jan. 2, 1909

^a Bid No. 2 lowest on its face, but figuring the difference in the cost of sending the dredge to Philadelphia rather than Jacksonville, bid No. 4 was lowest by \$1,000. Bid No. 4 was accepted and contract awarded

Original estimate, \$15,000.

Abstract of bids for raising and repairing dikes and training walls in Savannah Harbor, Georgia, received in response to newspaper advertisement and opened at Savannah, Ga., on March 5, 1909, by Col. Dan C. Kingman, Corps of Engineers.

[Appropriation for improving harbor at Savannah, Ga.]

No.	Name and address of bidder.	Stone, 45,000 tons.		Remarks.
		Rate.	Amount.	
1	Roderick G. Ross, Jacksonville, Fla.	\$2.07	\$93,150	Lowest bid.
2	Geo. M. Gadsden, Savannah, Ga.	2.19	98,550	
3	Atlantic Dredging Co., by Jno. L. Grim, president, Philadelphia, Pa.	2.244	100,980	Guaranty to accompany proposal antedates the proposal.
4	Geo. M. Gadsden, Savannah, Ga.	2.09	94,050	Same bidder as No. 2. Proposes to furnish artificial stone.
5	Blackstaff Engineering Co., by James M. West, member of firm, Philadelphia, Pa.	2.34	105,300	
6	Simons-Mayrant Co., by J. A. Hertz, president, S. Lewis Simons, treasurer, Charleston, S. C.	2.48	111,600	Date of bid omitted in guaranty.

Original estimate, \$2.25 per ton of 2,000 pounds.

Amount available: \$187,000.

The bid of Roderick G. Ross, of Jacksonville, Fla., the lowest responsible bidder for the best and most suitable articles and services, was recommended for acceptance.

Abstract of bids for building training walls and shore-protection dikes in Savannah River, near Augusta, Ga., received and opened at 12 m. (eastern standard time), June 19, 1909, at United States engineer office, Savannah, Ga., by Col. Dan C. Kingman, Corps of Engineers.

[Appropriation for preservation and maintenance of river and harbor works for Savannah River, Georgia, between Savannah and Augusta.]

Name and address of bidder.	Piling.					
	20 feet (316).		25 feet (316).		30 feet (316).	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
A. J. Twiggs & Son, Augusta, Ga. ^a	\$3.60	\$1,137.60	\$4	\$1,264	\$4.50	\$1,422
Name and address of bidder.	14,500 cubic yards brush, in bundles.		1,200 cubic yards stone.		Total of bid.	Board and lodging per month.
	Rate.	Amount.	Rate.	Amount.		
A. J. Twiggs & Son, Augusta, Ga. ^a	\$0.75	\$10,875	\$2.50	\$3,000	\$17,698.60	\$25

^a Only bid received.

Amount available, \$16,911.96.

Original estimate:

Piling, all three lengths.....	each	\$3.00
Brush, bundles.....	per cubic yard	.60
Stone.....	do	2.50
Board and lodging.....	per month	20.00

Abstract of bids for raising jetty at entrance to Jekyll Creek, Georgia; received and opened at 12 m. (eastern standard time), June 28, 1909, at Savannah, Ga., by Col. Dan C. Kingman, Corps of Engineers.

[Appropriation "for preservation and maintenance of river and harbor works," for waterway between Savannah, Ga., and Fernandina, Fla.]

No.	Name and address of bidder.	Stone, 6,000 tons.		Board and lodging for inspector per month.
		Rate.	Amount.	
1	Geo. M. Gadsden, Savannah, Ga.....	\$2.94	\$17,640	\$30
2	Blackstaff Engineering Co., Philadelphia, Pa.....	a 2.60	15,600	25
3	Simons-Mayrant Co., Charleston, S. C.....	2.97	17,820	25
4	Roderick G. Ross, Jacksonville, Fla.....	2.67	16,020	20
5	Wesley H. Greenfield, Brunswick, Ga.....	2.73	16,380	35

^a Lowest bid.

Date of bid erroneously stated in guaranty.

Amount available, \$13,500.

Original estimate: Stone, at \$2.25 per ton: board and lodging, at \$20 per month.

JACKSONVILLE, FLORIDA, DISTRICT.

[Officer: Geo. R. Spalding, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for furnishing American cement at Key West, Fla., and Fort Dade, Egmont Key, Fla., opened at United States engineer office, Jacksonville, Fla., June 10, 1909.

[Casemates, galleries, etc., for submarine mines.]

No.	Name and address of bidder.	Kind of cement.	Price per barrel.	Remarks.
1	Wm. Curry's Sons, Key West, Fla.	Key West Atlas Edison	\$1.72 1.66	
2	I. W. Phillips, Tampa, Fla.	Key West Alpha Fort Dade Alpha	1.65 1.85	Ship via Southern Steamship Co.
3	Atlas Portland Cement Co., New York, N. Y.	Key West Atlas Fort Dade Atlas	1.59 1.59	By vessel, 60 days.
4	Logan Coal and Supply Co., Jacksonville, Fla.	Key West Edison Fort Dade Edison	1.75 1.74 2.02 2.19	Mallory Steamship Co. Southern Steamship Co. Schooner.
5	Southern Lime and Cement Co.	Key West and Fort Dade Key West Lehigh Fort Dade Lehigh	1.73 1.83 1.53 1.89	Mallory Steamship Co. Benner Line. Mallory Steamship Co. Mallory Steamship Co.
6	Baker & Holmes Co., Jacksonville, Fla.	Key West and Fort Dade Key West Alpha	1.60 2.10	Via Southern Steamship Co Via Mallory Line.

a Accepted.

Abstract of proposals for furnishing ransome twisted steel bars and steel hoops at Key West, Fla., opened at United States engineer office, Jacksonville, Fla., June 10, 1909.

[Appropriation for casemates, galleries, etc., for submarine mines; quartermaster and submarine-mine wharf at Key West, Fla.]

No.	Name and address of bidder.	Kind.	Price per 100 pounds.	Remarks.
1	Buffalo Steel Co., Tonawanda, N. Y.	Rods	\$1.71	High carbon.
2	G. & W. Manufacturing Co., New York, N. Y.	Rods Hoops	1.93 10.93	
3	Turner Construction Co., New York, N. Y.	Rods Hoops	1.86 7.50	Delivery shortly after June 30.

a Accepted.

Abstract of proposals for furnishing graphite paint at Key West and Tampa, Fla., opened at United States engineer office, Jacksonville, Fla., June 22, 1909.

[Appropriation for preservation and repair of fortifications.]

No.	Name and address of bidder.	Price per gallon.	
		Tampa.	Key West.
1	Wm. Curry's Sons Co., Key West, Fla.	\$1.50	\$1.50
2	Detroit Graphite Co., New York, N. Y.	1.55	1.55
3	Knight & Wall Co., Tampa, Fla.	1.65	1.65
4	E. R. Albury Key West, Fla.	1.45	1.40
5	Tampa Hardware Co., Tampa, Fla.	2.00	2.00

a Accepted.

Abstract of proposals for furnishing electrically welded steel fabric at Key West, Fla., opened at United States engineer office, Jacksonville, Fla., June 23, 1909..

[Appropriation for casemates, galleries, etc., for submarine mines; quartermaster and submarine-mine wharf at Key West, Fla.]

No.	Name and address of bidder.	Price.
a 1	Clinton Wire Cloth Co., Clinton, Mass.	\$530.40
2	G. & W. Manufacturing Co., New York, N. Y.	782.57
3	American Steel and Wire Co., New York, N. Y.	590.42

a Accepted.

Abstract of proposals for furnishing paints, brushes, etc., at Key West and Tampa, Fla., opened at United States engineer office, Jacksonville, Fla.. June 23, 1909.

[Appropriation for preservation and repair of fortifications.]

No.	Name and address of bidder.	Price.	
		Tampa.	Key West.
a 1	Wm. Curry's Sons Co., Key West, Fla.	\$65.69	\$201.99
2	Geo. E. Chase & Co., Jacksonville, Fla.	65.80	237.50
b 3	Dosier & Gay, Jacksonville, Fla.	62.86	220.37
4	E. R. Albury, Key West, Fla.	68.95	218.95
5	Knight & Wall Co., Tampa, Fla.	72.50	268.00

a Accepted for Key West, Fla.

b Accepted for Tampa, Fla.

Abstract of proposals for furnishing steel rods, iron bands, bolts, etc., at Key West, Fla., opened at United States engineer office, Jacksonville, Fla., June 26, 1909.

[Appropriation for casemates, galleries, etc., for submarine mines; quartermaster and submarine mine wharf at Key West, Fla.]

No.	Name and address of bidder.	Price.
a 1	Belmont Iron Works, Philadelphia, Pa.	\$5,443.47
2	Penn Bridge Co., Beaver Falls, Pa.	6,504.10
3	Merrill-Stevens Co., Jacksonville, Fla.	6,688.10
4	G. & W. Manufacturing Co., New York, N. Y.	8,398.55
5	Chesapeake Iron Works, Baltimore, Md.	6,317.14

a Accepted.

Abstract of proposals for furnishing rails, switches, track fittings, etc., at Key West, Fla., opened at United States engineer office, Jacksonville, Fla., June 29, 1909.

[Appropriation for casemates, galleries, etc., for submarine mines; quartermaster and submarine mine wharf at Key West, Fla.]

No.	Name and address of bidder.	Price.
a 1	Ernst Wiener Co., New York, N. Y.	\$605.55
2	Kibly Frog and Switch Co., Birmingham, Ala.	646.75
3	Arthur Koppel Co., Pittsburg, Pa.	790.20
4	G. & W. Manufacturing Co., New York, N. Y.	1,278.25

a Accepted.

RIVERS AND HARBORS.

Abstract of proposals for furnishing stone on jetties at mouth of St. Johns River, Florida, opened at the United States engineer office, Jacksonville, Fla., May 17, 1909.

[Improving St. Johns River, Fla.; general improvement.]

No.	Name and address of bidder.	Price of stone per ton of 2,000 pounds.	Total.	Board of inspectors, per man.	Original estimate.
1	P. Sanford Ross (Incorporated), Jersey City, N. J.....	\$6.90	\$414,000	\$20	\$2.40
2	Chas. Clark & Co., Galveston, Tex.....	3.21	192,600	19	2.40
<i>a</i> 3	Blackstaff Engineering Co., Philadelphia, Pa.....	2.24	140,000	20	2.40
4	Roderick G. Ross, Jacksonville, Fla.....	2.55	153,000	.....	2.40

a Lowest bid accepted.

Abstract of proposals for dredging and hire of dredging plant, opened June 3, 1909, at United States engineer office, Jacksonville, Fla., by Capt. Geo. R. Spalding, Corps of Engineers.

[Preservation and maintenance of river and harbor works, St. Johns River, Florida, Jacksonville to the ocean.]

No.	Name and address of bidder.	Plant.		Location of dredging plant and cost.			
		Name of dredge.	Capacity of pump.	Mile Point shoal.		Section A, White Shells cut.	
				Per cubic yard.	Total.	Per cubic yard.	Total.
<i>a</i> 1	Roderick G. Ross, Jacksonville, Fla.....	Square Deal.	18-inch..	\$0.14	\$38,920	\$0.40	\$10,000
2	L. T. Gaylord, New York City.....	Port Royal.	20-inch..	.21	58,380	.29	7,250
3	Savannah Dredging Co., Savannah, Ga.....	Niagara.....	16-inch.....	.....	.....	.....	.....
4	P. Sanford Ross (Incorporated), Jersey City, N. J.....	No. 16.....	20-inch..	.16 $\frac{1}{2}$	45,870	.49	12,250
5	Hillsboro Dredging Co., Tampa, Fla.....	Swan.....	12-inch.....	.....	.....	.....	.....

No.	Name and address of bidder.	Location of dredging plant and cost.		Original estimate.	Hire of dredging plant per day of 24 hours.	Board of inspectors.			
		Section C, White Shells cut.							
		Per cubic yard.	Total.						
<i>a</i> 1	Roderick G. Ross, Jacksonville, Fla.....	\$0.14	\$12,824	\$61,744	\$0.19	\$415			
2	L. T. Gaylord, New York City.....	.21	19,235	84,866	.19	525			
3	Savannah Dredging Co., Savannah, Ga.....	.....	.....	.....	395	20
4	P. Sanford Ross (Incorporated), Jersey City, N. J.....	.22 $\frac{1}{2}$	20,610	78,730	.19	450			
5	Hillsboro Dredging Co., Tampa, Fla.....	.....	.....	.....	350	20

a Lowest bid; accepted.

WRECKS.

Abstract of proposal for hire of plant for removal of obstructions from Hillsboro River opposite the city of Tampa, Fla., opened January 8, 1909, in the United States engineer office, Tampa, Fla.

[Removing sunken vessels or craft obstructing or endangering navigation—indefinite.]

No.	Name and address of bidder.	Rate per day.	Remarks.
1	Southern Dredging Co., Mobile, Ala.....	\$370	Only bid received; accepted.

Abstract of proposal for removal of obstructions from Hillsboro River opposite the city of Tampa, Fla., opened July 27, 1908, in the United States engineer office, Tampa, Fla.

[Removing sunken vessels or craft obstructing or endangering navigation—indefinite.]

No.	Name and address of bidder.	Description of work.	Amount.	Remarks.
1	Edwards Construction Co., Tampa, Fla.	Removal of barge with log washer and other phosphate machinery, and 5 piles.	\$350	Only bid received.

Abstract of proposals for removal of wreck of schooner Addie F. Cole from channel leading to Anclote anchorage, and opened January 28, 1909, by Capt. Geo. R. Spalding, Corps of Engineers.

[Removing sunken vessels or craft obstructing or endangering navigation—indefinite.]

No.	Name and address of bidder.	Amount of bid.
^a 1	C. S. Washington, Tampa, Fla.....	\$640
2	Edwards Construction Co., Tampa, Fla.....	1,335
3	Johnson & Virden, Lewes, Del.....	645

^a Lowest bid, accepted. Certified check for \$400 inclosed in bid.

MONTGOMERY, ALABAMA, DISTRICT.

[Officer: Capt. H. B. Ferguson, Corps of Engineers.]

FORTIFICATIONS.

Abstracts of proposals received and opened at United States engineer office, Montgomery, Ala., by Capt. H. B. Ferguson, Corps of Engineers, during fiscal year ending June 30, 1909, for furnishing and delivering 150,000 feet, b. m., creosoted sheet piling at Fort McRee, in Pensacola Harbor, Florida. (Proposals opened October 28, 1908.)

No.	Name and address of bidders.	Quantity (feet b. m.).	Price per M foot b. m.	Total.
^a 1	John B. Lindsey, doing business as the West Pascagoula Creosoting Works, West Pascagoula, Miss.....	150,000	\$34	\$5,100
2	Gulfport Creosoting Co., Gulfport, Miss.....	150,000	37	5,550

^a Accepted.

RIVERS AND HARBORS AND FORTIFICATIONS.

For furnishing stationery for use in Montgomery (Ala.) district during the year 1909. (Proposals opened December 31, 1908.)

No.	Name and address of bidder.	Amount.
^a 1	Mercantile Paper Co., Montgomery, Ala.....	\$670.17
2	Southern Stationery and Printing Co., Montgomery, Ala.....	(b)

^a Accepted.

^b Declined to bid.

MOBILE, ALABAMA, DISTRICT.

[Officer: Maj. Henry Jersey, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for the construction of wharf and sea wall at Fort Gaines, Ala., opened in the United States engineer office at Mobile, Ala., on October 9, 1908.

No.	Name and address of bidder.	Wharf.						
		Round creosoted piles, in place (6,003 linear feet).		Timber work, placed (117,500 feet b. m.).		Iron work, in place (7,300 pounds).		
		Per linear foot.	Amount.	Per M feet b. m.	Amount.	Per 100 pounds.	Amount.	
<i>Cents.</i>								
1	Hieronymus & Ollinger, Mobile, Ala.	49	\$2,941.47	\$37.00	\$4,307.50	\$8.00	\$584.00	
2	Richard N. Murphy, New Orleans, La.	65	3,901.95	40.00	4,700.00	5.00	365.00	
3	W. C. Spotswood, Mobile, Ala.	52	3,121.56	52.50	6,168.75	7.55	581.15	
4	Blackstaff Engineering Co., Philadelphia, Pa.	66	3,961.98	42.00	4,935.00	6.25	456.25	
5	Charles Clarke & Co., Galveston, Tex.	93	5,582.79	42.90	5,040.75	8.00	584.00	
6	Edwards Construction Co., Tampa, Fla.	65	3,901.95	39.28	4,615.40	7.50	547.50	
7	Grant Wilkins, Atlanta, Ga.	94	5,642.82	39.80	4,676.50	8.00	584.00	
8	Christie & Lowe, New Orleans, La.	60	3,601.80	40.00	4,700.00	6.00	438.00	
<i>Sea wall.</i>								
No.	Name and address of bidder.	Excavation (6,000 cubic yards).		Riprap removed and relaid (1,500 cubic yards).		Riprap, hand-placed (13,500 short tons).		
		Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per ton.	Amount.	
		<i>Cents.</i>					Total.	
1	Hieronymus & Ollinger, Mobile, Ala.	35	\$2,100	\$1.50	\$2,250	\$5.00	\$67,500	\$79,722.97
2	Richard N. Murphy, New Orleans, La.	55	3,300	1.50	2,250	4.15	56,025	70,541.95
3	W. C. Spotswood, Mobile, Ala.	50	3,000	1.00	1,500	4.25	57,375	71,716.46
4	Blackstaff Engineering Co., Philadelphia, Pa.	25	1,500	.75	1,125	5.00	67,500	79,478.23
5	Charles Clarke & Co., Galveston, Tex.	60	3,600	1.00	1,500	4.84	65,340	81,647.54
6	Edwards Construction Co., Tampa, Fla.	43	2,580	1.40	2,100	8.47	114,345	128,089.85
7	Grant Wilkins, Atlanta, Ga.	61	3,660	1.00	1,500	4.87	65,745	81,808.32
8	Christie & Lowe, New Orleans, La.	30	1,800	1.00	1,500	4.10	55,350	67,389.80

Abstract of proposals for construction of sea wall at Fort Morgan, Ala., opened in United States engineer office at Mobile, Ala., on December 24, 1908.

No.	Name and address of bidder.	Concrete (6,700 cubic yards).		Riprap, hand-placed (38,500 short tons).		Excavation (27,500 cubic yards).		Sheet piling (1,908,000 feet b. m.).	
		Price.	Amount.	Price.	Amount.	Price.	Amount.	Per M.	Amount.
1	Richard M. Murphy, New Orleans, La.	\$6.16	\$41,272	\$3.85	\$148,225	\$0.40	\$11,000	\$35.00	\$66,780
2	Charles Clarke & Co., Galveston, Tex.	7.19	48,173	3.96	152,460	.45	12,375	37.00	70,596
3	Robt. C. Storrie, Pensacola, Fla.	6.40	42,880	4.00	154,000	.45	12,375	32.50	62,010
4	W. C. Spotswood, Mobile, Ala.	7.50	50,250	4.00	154,000	.30	8,250	40.00	76,320
5	Christie & Lowe, New Orleans, La.	7.00	46,900	3.00	115,500	.40	11,000	40.00	76,320
6	Blackstaff Engineering Co., Philadelphia, Pa.	6.50	43,550	3.30	127,050	.45	12,375	45.00	85,860
7	Charles G. Ollinger, Mobile, Ala.	7.30	48,910	4.06	156,310	.30	8,250	35.00	66,780

No.	Name and address of bidder.	Round piling (1,600 linear feet).		Vitrified pipe (200 linear feet).		Extra cement.	Total of bid.
		Per foot.	Amount.	Per foot.	Amount.		
1	Richard M. Murphy, New Orleans, La.	\$0.20	\$320	\$0.15	\$30	Per bbl.	\$267,627
2	Charles Clarke & Co., Galveston, Tex.	.45	720	.30	60	2.15	284,384
3	Robt. C. Storrie, Pensacola, Fla.	.50	800	.50	100	2.50	272,181
4	W. C. Spotswood, Mobile, Ala.	.70	1,120	.40	80	2.10	290,020
5	Christie & Lowe, New Orleans, La.	.40	640	.40	80	2.50	250,440
6	Blackstaff Engineering Co., Philadelphia, Pa.	1.00	1,600	1.00	200	2.00	270,635
7	Charles G. Ollinger, Mobile, Ala.	.25	400	.50	100	2.10	280,750

RIVERS AND HARBORS.

Abstract of proposals for dredging at the mouth of Pascagoula River, Miss., opened in United States engineer office at Mobile, Ala., on July 20, 1908.

No.	Name and address of bidder.	Price bid per cubic yard, place measurement.	Kind and capacity of dredge.	Time of commencement and completion.	
				Cents.	
1	John Andersen, Gulfport, Miss.	11 $\frac{3}{4}$	Hydraulic dredge Cape Charles; 4,000 cubic yards per day of eight hours.		In accordance with specifications.
2	Bowers Southern Dredging Co., Galveston, Tex.	11 $\frac{1}{2}$	Hydraulic; either No. 6, No. 9, or Geo. Sealy; 1,000 to 6,000 cubic yards, according to material.		Do.
3	North American Dredging Co., Galveston, Tex.	12	Hydraulic; either Galveston or Atlantic; 3,000 cubic yards.		Do.

Abstract of proposals for dredging in harbor at Mobile, Ala., opened in United States engineer office at Mobile, Ala., on January 15, 1909.

No.	Name and address of bidder.	Price per cubic yard, in place.	Proposed plant.
1	Southern Dredging Co., Mobile, Ala....	<i>Cents.</i> 10.50	1 clamshell dredge, with capacity of 2,500 cubic yards per day of eight hours, and 1 hydraulic dredge; 2 bottom dump scows.
2	John Andersen, Gulfport, Miss.....	10.75	1 hydraulic dredge of 5,000 cubic yards' capacity per day of eight hours; other dredges, if necessary.
3	Bowers Southern Dredging Co., Galveston, Tex.	9.95	2 hydraulic dredges, each of 4,000 cubic yards' capacity per day of eight hours.
4	North American Dredging Co., Galveston, Tex.	10.64	1 hydraulic dredge of 3,000 cubic yards' capacity per day of eight hours.

Abstract of proposals for construction of a steel hull 20-inch hydraulic dredge for harbors on the coast of Mississippi, opened in United States engineer office, Mobile, Ala., November 20, 1908.

No.	Name and address of bidder.	Price bid.	Completion and delivery.
1	Springfield Boiler and Manufacturing Co., Springfield, Ill.....	\$177,000	In fourteen months.
2	Atlantic Equipment Co., New York City.....	^a 173,500	In twelve months.
3	Ellicott Machine Co., Baltimore, Md.....	144,000	In nine months.

^a Bidder No. 2 submitted alternative specifications and plans, with price on these of \$149,750.

Abstract of proposals for constructing 61 wooden pontoons for use with 20-inch pump dredge for harbors on the coast of Mississippi, opened in the United States engineer office at Mobile, Ala., February 11, 1909.

No.	Name and address of bidder.	Amount bid.
1	Ollinger and Bruce Dry Dock Co., Mobile, Ala.....	\$16,000.00
2	A. F. Chestant and Sidoine E. Krebs, Scranton, Miss.....	12,500.00
3	The Johnson Iron Works (Limited), New Orleans, La.....	21,399.00
4	General Contract Co., New Orleans, La.....	22,082.00
5	Gulfport Towing Co., Gulfport, Miss.....	10,710.00
6	M. M. Flechas, Scranton, Miss.....	9,800.00
7	Thos. M. Favre, Gulfport, Miss.....	9,120.22
8	Chas. G. Ollinger, Mobile, Ala.....	10,239.00
9	Gulf Dry Dock Co., Mobile, Ala.....	10,991.00
10	Salmen Brick and Lumber Co. (Limited), New Orleans, La.....	26,000.00

All bids based on delivery at Scranton, Miss., within one hundred and twenty days after date of approval of contract by the Chief of Engineers.

LOCK AND DAM NO. 16.

Abstract of proposals for building Lock and Dam No. 16, and lock tender's house, Black Warrior River, Alabama, opened in United States engineer office, at Mobile, Ala., November 17, 1908.

Item.	Approximate quantity.	Name and address of bidder.					
		B. H. Hardaway, Columbus, Ga.		Robert C. Storrie, Philadelphia, Pa.		The Dravo Contracting Co., Pittsburgh, Pa.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Grubbing and clearing.....	7 acres.....	\$100.00	\$700	\$200.00	\$1,400	\$80.00	\$560
Common excavation.....	70,000 cubic yards.....	.50	35,000	.75	52,500	.80	56,000
Rock excavation.....	35,000 cubic yards.....	1.50	52,500	2.75	96,250	2.85	99,750
Stone filling.....	3,200 cubic yards.....	2.50	8,000	2.00	6,400	2.35	7,520
Concrete.....	38,810 cubic yards.....	7.50	291,075	7.50	291,075	6.50	252,165
Riprap, hand placed.....	6,000 cubic yards.....	3.00	18,000	2.50	15,000	3.10	18,600
Miter sills.....	4,000 feet b. m.....	100.00	400	150.00	600	100.00	400
Framed timber, heart.....	10,000 feet b. m.....	75.00	750	60.00	600	70.00	700
Cofferdam timber.....	365,000 feet b. m.....	50.00	18,250	35.00	12,775	50.00	18,250
Placing valves and special irons.	100,000 pounds.....	.04	4,000	.05	5,000	.015	1,500
Total.....			428,675		481,600		455,545
Lock tender's house.....			3,000		3,200		3,500
Grand total.....			431,675		484,800		459,045
Alternative type of cofferdam.			13,500		10,000		

LOCK AND DAM NO. 2.

Abstract of proposals for building lock tender's house at Lock No. 2, Tombigbee River, Alabama, opened in United States engineer office, at Mobile, Ala., on March 27, 1909.

No.	Name and address of bidder.	Amount of bid.
1	Levi Frisbie, Jackson, Ala.....	\$1,792
2	Jas. M. Watkins-Dan H. Shamburger, Pennington, Ala.....	2,499
3	Williams & Williams, Mobile, Ala.....	2,575
4	J. H. Compton-Harry Homer, Nannafalla, Ala.....	2,740
5	Southern Bridge Co., Birmingham, Ala.....	2,800
6	F. H. Fleming & Co., Mobile, Ala.....	2,825
7	George Vise, Demopolis, Ala.....	3,200
8	R. P. Prowell, Tuscaloosa, Ala.....	3,600

NEW ORLEANS (LOUISIANA) DISTRICT.

[Officer: Lieut. Col. Lansing H. Beach, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals received in response to advertisement by poster and circular letter for a period of 30 days for furnishing and delivering cast-steel ball-and-socket joints for the dredge Sumter for a period of one year from date of bid, opened at engineer office, United States Army, custom-house, New Orleans, La., July 20, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Maintenance of South Pass Channel, Mississippi River.]

No.	Name and address of bidder.	Amount of bid, first joints.	Amount of bid, subsequent joints.	Time of delivery.
1	The Bucyrus Co., South Milwaukee, Wis.....	\$320	\$320	50 days from receipt of order.
2	Ellicott Machine Co., Baltimore, Md.....	318	318	Do
3	The Griscom-Spencer Co., New York City.....	260	260	40 days from receipt of order.
4	Jos. Edwards & Co., New York City.....	380	315	45 days from receipt of order.

a Accepted, and emergency contract entered into August 5, 1908.

Abstract of proposals for furnishing and delivering piles and waling timbers in the water or on barges at Port Eads, La., South Pass channel, Mississippi River, received in response to advertisement by poster and circular letter dated August 12, 1908, and opened at 11 o'clock a. m., September 11, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Maintenance of South Pass channel, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Time of delivery.
1	E. W. Vinyard, Ponchatoula, La.	\$4,200.00	60 days.
2	Lake Superior Piling Co., New Orleans, La.	4,715.00	40 days.
3	Bradshaw & Gordon, New Orleans, La.	8,190.00	90 days.
4	Salmen Brick and Lumber Co. (Limited), New Orleans, La.	4,920.00	35 days.
5	H. M. Ellicott & Co., New Orleans, La.	4,972.63	45 days.

a Accepted, and emergency contract entered into on September 29, 1908.

Abstract of proposals received in response to advertisement by poster and circular letter dated September 5, 1908, for a period of thirty days, for furnishing and delivering 2 sand pumps and 2 Y-pipes for the U. S. dredge Sumter, opened at the engineer office, United States Army, custom-house, New Orleans, La., October 5, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Maintenance of South Pass channel, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Time of delivery.
1	Ellicott Machine Co., Baltimore, Md.	\$4,277	90 days.
2	Morris Machine Works, Baldwinsville, N. Y.	4,790	110 days.
3	Alex. Miller & Bro., Jersey City, N. J.	5,050	90 days.
4	The Bucyrus Co., South Milwaukee, Wis.	5,575	120 days.

a Accepted, and emergency contract entered into June 4, 1909.

Abstract of proposals received in response to advertisement by poster and circular letter for a period of fifteen days, for furnishing and delivering piles and waling timbers at Port Eads, La., Mississippi River, opened at the engineer office, United States Army, custom-house, New Orleans, La., June 8, 1909, by Lieut. Col. Lansing H. Beach, Corps of Engineers.

[Maintenance of South Pass channel, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.
1	Salmen Brick and Lumber Co. (Limited), 716 Common street, city	\$3,858.50
2	Houlton Lumber Co., 908 Hibernia Bank Building, city	4,050.00
3	E. W. Vinyard, Ponchatoula, La.	3,950.00
4	Rodd-Black Co., 309 Cotton Exchange Building, city	4,862.50
5	American Creosote Works (Incorporated), New Orleans, La.	5,405.00

a Accepted, and emergency contract entered into June 11, 1909.

Abstract of proposals received in response to advertisement by newspapers for a period of thirty days for furnishing about 10,000 cords of willows for use in connection with the work at South and Southwest Passes, Mississippi River, during the period from the date of notification of approval of contract by the Chief of Engineers to June 30, 1909, opened at the engineer office, United States Army, custom-house, New Orleans, La., July 6, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Improving Southwest Pass, Mississippi River, and maintenance of South Pass channel, Mississippi River.]

No.	Name and address of bidder.	For willows from below and at Fort Jackson, La.	For willows from above Fort Jackson, La.
			Per cord.
1	Richard M. Murphy, New Orleans, La.	\$1.20	\$1.40
2	Robert M. White, New Orleans, La.	1.09	1.24

a Accepted; date of contract, July 30, 1909. Submitted certified check in lieu of guaranty.

Abstract of proposals received in response to advertisement by newspapers for a period of 30 days for furnishing plant, labor, and materials for and constructing sheet pile dams in outlet bayous of Southwest Pass, Mississippi River, opened at engineer office, United States Army, custom-house, New Orleans, La., August 10, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Total amount of bid for whole work.	Remarks.
1	Doullut & Williams, New Orleans, La..	\$74,340.00	Bid based on whole work; time of completion, 286 working days.
2	Constantin, Riess & Guerin, New Orleans, La.	68,917.90	Submitted certified check in lieu of guaranty; time of completion, 157 days after beginning the work.
3	Richard M. Murphy, New Orleans, La..	48,626.29	Time of completion, 109 working days.
<i>a 4</i>	Peter Eskald, Biloxi, Miss.....	47,300.00	Time of completion, 117 days. Submitted certified check in lieu of guaranty.

a Accepted; date of contract, August 31, 1908.

Abstract of proposals received in response to advertisement by poster and circular letter for making repairs to the United States dredge Benyaurd, opened at United States engineer office, New Orleans, La., September 9, 1908, by Col. E. H. Ruffner, Corps of Engineers.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Price.	Remarks.
<i>a 1</i>	Stern Foundry and Machinery Co., New Orleans, La.	\$11,137.10	40 days to complete the work.
2	The Johnson Iron Works (Limited), New Orleans, La.	13,021.58	60 working days to complete the work.
3	J. D. Connell Iron Works Co., New Orleans, La.	13,197.00	
<i>a 4</i>	Crescent City Machine and Manufacturing Works, 632 Tchoupitoulas street, New Orleans, La.	8,021.45	40 working days to complete the work. Bid incomplete.

a Accepted; emergency contract entered into October 2, 1908.

Abstract of proposals for furnishing and installing mechanical device to operate bin valves, for furnishing and installing overflow troughs, and for repair and alterations of drag-hoist davits on United States dredge Benyaurd, received in response to advertisement by newspapers for a period of 31 days, issued by Col. E. H. Ruffner, Corps of Engineers, New Orleans, La., and opened by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La., October 5, 1908.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	(a) Furnish and install mechanical device to operate bin valves.	(b) Furnish and install overflow troughs.	(c) Repair and make alterations to drag-hoist davits.	Total.	Time for completion of work.
<i>a 1</i>	Crescent City Machine and Manufacturing Works, New Orleans, La.	\$5,934.65	\$3,523.40	\$395.00	\$9,853.05	80 days.
2	Stern Foundry and Machinery Co., New Orleans, La.	8,480.60	4,647.20	339.20	13,467.00	83 days.
3	The Johnson Iron Works (Limited), New Orleans, La.	6,750.00	6,350.00	400.00	13,500.00	90 days.
<i>a 4</i>	Ellisott Machine Co., Baltimore, Md..				13,896.00	100 days.
<i>5</i>	G. & W. Manufacturing Co., New York, N. Y.	<i>b</i> 6,100.00				120 days.

a Accepted, and contract entered into October 21, 1908.

b Not installed.

Abstract of proposals for furnishing and installing one boiler in machine-shop building at Burrwood, Southwest Pass, Mississippi River, La., received in response to advertisement by poster and circular letter dated September 29, 1908, and opened at 11 o'clock a. m., November 2, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Remarks.
1	Stern Foundry and Machinery Co., New Orleans, La.	\$4,500	100 working days.
2	E. A. Sammons Co. (Limited), New Orleans, La.	4,150	90 working days.

a Accepted; emergency contract dated November 6, 1908.

Abstract of proposals for furnishing and delivering creosoted piles and lumber on the bank of the Mississippi River at Burrwood, La., received in response to advertisement by poster and circular letter dated October 21 and opened at 11 o'clock a. m., November 2, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Total of bid.	Remarks.
1	Salmen Brick and Lumber Co. (Limited), New Orleans, La.	\$7,067.09	Delivery in 30 working days.
2	Gulfport Creosoting Co., Gulfport, Miss.	6,666.64	Incomplete; did not bid on 19,800' 1½" x 12" x 12' lumber, not creosoted. Delivery in 60 working days.
3	E. H. Russ, New Orleans, La.	8,295.73	Delivery in 60 working days.

a Accepted; date of contract, November 25, 1908.

Abstract of proposals for furnishing and installing machines and engine in shop building at Burrwood, La., received in response to newspaper advertisement dated November 25, 1908, opened December 26, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Time of completion.
1	The Fairbanks Co., New Orleans, La.	\$13,000	120 working days.
2	E. A. Sammons Co. (Limited), New Orleans, La.	13,362	90 working days.
3	G. & W. Manufacturing Co. (Incorporated), New York, N. Y.	14,997	110 days.

a Accepted; date of contract January 21, 1909.

Abstract of proposals for furnishing and installing ice machine, refrigerating and distilling plant, in machine-shop building at Burrwood, La., received in response to newspaper advertisement dated November 21, 1908, opened December 21, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Time of completion.
1	United Iron Works Co., Springfield, Mo.	\$3,750	60 days.
2	E. A. Sammons Co. (Limited), New Orleans, La.	3,800	90 days.
3	The Creamery Package Manufacturing Co., Chicago, Ill.	3,994	150 days.
4	York Manufacturing Co., Spring Forge, Pa.	4,500	120 days.
5	Brunswick Refrigerating Co., New Brunswick, N. J.	4,892	70 days.
6	Pennsylvania Engineering Co., Philadelphia, Pa.	b 5,285	110 days.
7	Hautbman & Loeb Co. (Limited), New Orleans, La.	5,378	125 days.
8	McCay Engineering Co., Baltimore, Md.	6,831	75 working days.
9	Kroeschell Bros. Ice Machine Co., Chicago, Ill.	3,525	65 days.

a Accepted; contract entered into January 19, 1909.

b Foundation is not included.

Abstract of proposals received in response to advertisement by newspapers for a period of 30 days for plant, labor, materials, and constructing buildings at Burrwood, Southwest Pass, Mississippi River, La., opened at engineer office, United States Army, custom-house, New Orleans, La., March 24, 1909, by Lieut. Col. Lansing H. Beach, Corps of Engineers.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.	Time for completion.
a1	Peter Eskald, Biloxi, Miss.	\$34,940.00	175 calendar days.
2	Castenera & Latimer, box 34, Biloxi, Miss.	35,758.00	150 calendar days.
3	Doullut & Williams, New Orleans, La.	37,197.00	140 calendar days.
4	Richard M. Murphy, New Orleans, La.	44,870.40	125 calendar days.
5	E. A. Sammons Co. (Limited), New Orleans, La.	46,265.00	150 working days.

a Accepted; and contract entered into April 10, 1909.

Abstract of proposals received in response to advertisement by poster and circular letter dated May 26, 1909, for a period of 15 days, for furnishing and delivering creosoted piles and lumber at Burrwood, Southwest Pass, Mississippi River, La., opened at the engineer office, United States Army, custom-house, New Orleans, La., June 10, 1909, by Lieut. Col. Lansing H. Beach, Corps of Engineers.

[Improving Southwest Pass, Mississippi River.]

No.	Name and address of bidder.	Amount of bid.
a1	Salmen Brick and Lumber Co. (Limited), 716 Common street, city.	\$3,598.83
2	West Pascagoula Creosote Works, Gautier, Miss.	3,774.87

a Accepted, and emergency contract entered into June 11, 1909.

Abstract of proposals received in response to advertisement by newspaper and circular letter for a period of 15 days for furnishing about 10,000 cubic yards of stone for use in connection with the maintenance of jetties and auxiliary works at South and Southwest Passes, Mississippi River, dated June 5, 1909, opened June 21, 1909, at engineer office, United States Army, custom-house, New Orleans, La., by Lieut. Col. Lansing H. Beach, Corps of Engineers.

[Improving Southwest Pass, Mississippi River, and maintenance of South Pass channel, Mississippi River.]

No.	Name and address of bidder.	10,000 cubic yards, (per cubic yard).	Total.	Remarks.
a1	Richard M. Murphy.	\$3.45	\$34,500	
2	Oscar F. Barrett, Chamber of Commerce Building, Cincinnati, Ohio.	4.15	41,500	
3	Chas. Clarke & Co., Galveston, Tex.	8.10	81,000	Request 30 days additional time to make delivery.
4	Frank A. Daniels, New Orleans, La.	2.10	21,000	Specifications changed, and quantities changed to 15,000 tons. Delivery changed to read "on United States barges in New Orleans Harbor. The rock to be free from import duty to the contractor. If duty is imposed upon the rock by the United States customs, said duty to be borne by the United States Corps of Engineers."

a Accepted, and contract entered into June 28, 1909.

Abstract of proposals for furnishing and delivering new anchorages for lock gates, f. o. b., cars, Plaquemine, La., for the Plaquemine lock, received in response to advertisement by poster and circular letter dated November 16, and opened at 11 o'clock a. m., November 27, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, custom-house, New Orleans, La.

[Improving Bayou Plaquemine, La.]

No.	Name and address of bidder.	Cast steel, estimated weight, 6,360 pounds.		Medium steel, estimated weight, 51,558 pounds.		Total.	Time of delivery.
		Per pound.	Amount.	Per pound.	Amount.		
1	Penn Bridge Co., Beaver Falls, Pa.	<i>Cents.</i> 6 $\frac{1}{2}$	\$397.50	<i>Cents.</i> 4 $\frac{3}{4}$	\$2,449.00	\$2,846.50	60 days.
2	New Jersey Foundry and Machine Co., New York, N. Y.	4.7	298.92	8.7	4,485.55	4,784.47	40 days.
3	The Variety Iron and Steel Works Co., Cleveland, Ohio.	6	381.60	6	3,093.48	3,475.08	40 working days.
4	Stern Foundry and Machinery Co., New Orleans, La.	7	445.20	8	4,124.64	4,569.84	60 days.

Paragraph 24 of the specifications states that in canvassing bids one days' time will be considered equivalent to \$15 in price and that time shall be an essential feature of the contract.

SUPPLEMENTAL BIDS RECEIVED.

No.	Name and address of bidder.		Additional.	Grand total.
1a	Penn Bridge Co., Beaver Falls, Pa.	For delivering 2 complete sets of anchorages within 24 days after date of notification; remainder in 50 days.	\$720.00	\$3,566.50
3a	The Variety Iron and Steel Works Co., Cleveland, Ohio.	For delivering 2 complete sets of anchorages in 24 working days, or 4 sets in 30 working days after notification; delivery on partial shipments not guaranteed.	-----	3,475.08

a Accepted, and emergency contract entered into December 5, 1908.

Abstract of proposals received in response to newspaper advertisement dated August 8, and opened September 8, 1908, by Lieut. Col. Lansing H. Beach, Corps of Engineers, for dredging waterway from Franklin to Mermannau, La.

[Improving waterway from Franklin to Mermannau, La.]

No.	Name and address of bidder.	Lot No. 1, Vermilion Bay to White Lake, per cubic yard.	Lot No. 2, Vermilion Bay to Grand Lake, per cubic yard.	Both, per cubic yard.	Total.
1	The Jahncke Navigation Co., New Orleans, La.	<i>Cents.</i> 14 $\frac{1}{2}$	-----	-----	\$63,800
2	John Andersen, Gulfport, Miss.	-----	-----	7 $\frac{1}{2}$	70,875
3	Gulf Dredging and Timber Co. (Limited), New Orleans, La.	9 $\frac{1}{2}$	9 $\frac{1}{2}$	9 $\frac{1}{2}$	82,125
4	Bowers Southern Dredging Co., Galveston, Tex.	-----	-----	12 $\frac{1}{2}$	112,500
5	North American Dredging Co., Galveston, Tex.	-----	-----	12.39	111,510
6	Southern Dredging Co., Mobile, Ala.	15	15	15	135,000

a Accepted, and contract entered into September 19, 1908.

GALVESTON (TEX.) DISTRICT.

[Officer: Capt. John C. Oakes, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Buffalo Bayou, Texas, received in response to advertisement dated October 14, 1908, and opened November 14, 1908, by Capt. John C. Oakes, Corps of Engineers, at Galveston, Tex.

[Improving Galveston ship channel and Buffalo Bayou, Texas.]

No.	Name and address of bidder.	650,000 cubic yards.	Total.	Remarks.
1	North American Dredging Co., Galveston, Tex.	16 ⁷ / ₁₀ Cents.	\$108,810	
2	John Andersen, Gulfport, Miss.....	16	104,000	Requests sixty days for beginning work and thirteen months additional for completing. Paragraphs 18, 19, 20, 35 to be withdrawn. If any refill, to be paid for at the regular contract price.
3	John Jacobson, Texas City, Tex.....	13 ⁴ / ₅ Cents.	87,425	
4	Bowers Southern Dredging Co., Galveston, Tex.	19 ⁸ / ₁₀	128,700	Commence work not later than February 10, 1909, with one 20-inch hydraulic dredge and continuing same, working night and day, Sundays and legal holidays excepted, until contract is completed.

Awarded to No. 3.

Abstract of proposals for jetty work at Aransas Pass, Tex., received in response to advertisement dated May 10, 1909, and opened June 10, 1909, by Capt. John C. Oakes, Corps of Engineers, at Galveston, Tex.

[Improving Aransas Pass and Bay, Texas.]

No.	Name and address of bidder.	South jetty—Gulf extension.			North jetty—repairs.	
		82,500 tons riprap placed in work.	18,500 tons crest stone placed in work.	2,700 linear feet creosoted pile railway trestle and track complete.	15,000 tons riprap alongside the jetty.	1,000 tons cap block alongside the jetty.
1	Charles Clarke & Co., Galveston, Tex.....	Unit price... \$3.40	\$3.60	\$4.80	\$3.15	\$3.58
	Total.....	280,500.00	66,600.00	12,960.00	47,250.00	3,580.00
2	D. M. Picton & Co., Galveston, Tex.....	Unit price... 3.08	4.09	7.50	2.81	3.93
	Total.....	254,100.00	75,665.00	20,250.00	42,150.00	3,930.00

No.	Name and address of bidder.	South jetty—across island.			Total.
		5,700 tons riprap placed in work.	1,700 linear feet uncreosoted pile trestle and track.		
1	Charles Clarke & Co., Galveston, Tex.....	Unit price... \$3.20	\$3.75		
	Total.....	18,240.00	6,375.00	\$435,505.00	
2	D. M. Picton & Co., Galveston, Tex.....	Unit price... 2.70	4.30		
	Total.....	15,390.00	7,310.00	418,795.00	

Awarded to No. 2.

DALLAS, TEXAS, DISTRICT.

[Officer: Capt. A. E. Waldron, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging about 220,000 cubic yards in the turning basin and lumber basin at the head of the Port Arthur Canal, Texas, received in response to advertisement dated May 14, 1909, and opened May 29, 1909, by Capt. A. E. Waldron, Corps of Engineers.

Bidder.	Classification.	Unit.	Approximate quantities.	Unit price.	Amount.	Remarks.
John Jacobson	Dredging	Cubic yards.	220,000	\$0.105	\$23,100	Agrees, if awarded contract, to place dredge at work August 1, 1909, and work two 20-inch suction dredges in prosecuting the work; will complete dredging by October 1, 1909.
Bowers Southern Dredging Co.	...do.....	do.....	220,000	.115	25,300	Agree, if awarded contract, to place one dredge on work, either a 20-inch or a 15-inch suction dredge within 60 days after execution of contract.

The amount available for this contract is \$30,000.
Contract was awarded to John Jacobson.

VICKSBURG, MISSISSIPPI, DISTRICT.

[Officer: Capt. C. S. Smith, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for transporting material to be used in constructing Lock and Dam No. 8, Ouachita River, Arkansas, received in response to advertisement dated June 5, 1909, and opened at 12 o'clock noon, this date, by Capt. Clarke S. Smith, Corps of Engineers. Estimated quantity to be transported, 2,000 tons more or less. The prices bid are per ton of 2,000 pounds.

[Payments under the contract are to be made from the appropriation for preservation and maintenance of river and harbor works, allotment for "Ouachita River locks and dams Nos. 2 and 8," under which work at Lock and Dam No. 8 is in process of execution by hired-labor method.]

No.	Name and address of bidder.	Prices for transportation from Calion, Ark., to—		Remarks.
		Franklin Shoals, Ark.	El Dorado Landing, Ark.	
1	Harris Lumber Co., Junction City, Ark.	\$5.95	\$2.00	Bid not dated and not in duplicate, as required by specification 2. Signed by D. F. Harris, president, but no evidence of his authority filed. Name of bidder omitted on thirteenth line of guaranty.
2	H. E. Robinson, Monroe, La.	4.50	2.50	Bid not dated and not accompanied by a guaranty, as required by specification 1.

Abstract of proposals for furnishing explosives to works of the Vicksburg (Miss.) district, in quantities as required during the fiscal year ending June 30, 1910, received in response to advertisement dated May 8, 1909, and opened at United States engineer office, Vicksburg, Miss., at 3 o'clock p. m., June 8, 1909.

No.	Name and address of bidder.	Dynamite.				Judson powder.	
		40 per cent (30,000 pounds).		60 per cent (3,000 pounds).		5,000 pounds.	
		Per pound.	Cost.	Per pound.	Cost.	Per pound.	Cost.
1	Independent Powder Co. of Missouri, Joplin, Mo.	<i>Cents.</i> <i>a</i> 13.5 <i>b</i> 14.5	\$2,430 1,740	<i>Cents.</i> <i>a</i> 15.5 <i>b</i> 16.5	\$279 198	<i>Cents.</i> <i>a</i> 9 <i>b</i> 10	\$450
2	E. I. du Pont De Nemours Powder Co., Nashville, Tenn.	<i>a</i> 13.5 <i>b</i> 14.5	2,430 1,740	<i>a</i> 15.5 <i>b</i> 16.5	279 198	<i>a</i> 9 <i>b</i> 10	450

No.	Name and address of bidder.	Platinum fuses, best, cotton covered.				Leading wire.		Safety fuse.	
		4-foot wires (12,000).		24-foot wires (1,000).		Cotton cov- ered (3,500 feet).		Triple tape (3,000 feet).	
		Per 100.	Cost.	Per 100.	Cost.	Per foot.	Cost.	Per 1,000 feet.	Cost.
1	Independent Powder Co. of Missouri, Joplin, Mo.	\$2.10	\$252.00	\$6.52	\$65.20	<i>Cents.</i> .05	\$17.50	\$4.64	\$13.92
2	E. I. du Pont De Nemours Powder Co., Nashville, Tenn.	<i>c</i> 2.25 <i>d</i> 2.61 <i>e</i> 2.76	----- 331.20 -----	<i>d</i> 8.16 <i>e</i> 8.63	----- 86.30 -----	<i>f</i>	12.41	4.73	14.19

No.	Name and address of bidder.	Blasting caps.		Blasting machines.				Total.	Remarks.		
		Triple force (1,000).		Smith's patent, or equal.							
		1 No. 3.		1 No. 4.							
		Per 100.	Cost.	Each.	Cost.	Each.	Cost.				
1	Independent Powder Co. of Missouri, Joplin, Mo.	55	\$5.50	\$10.00	\$10.00	\$20.00	\$20.00	\$5,481.12	Magazines located at Joplin, Mo., Monroe, La., Fort Smith, Ark.; and Paris, Tex. Evidence of authority for signature to bid not filed. Date of bid omitted in guaranty.		
2	E. I. du Pont De Nemours Powder Co., Nashville, Tenn.	<i>d</i> 65 <i>e</i> 67	6.70	15.20	15.20	30.30	30.30	5,593.30	Magazines located at Memphis, Tenn., New Orleans, La., and St. Louis, Mo. Evidence of authority for signature to bid not filed. Form of proposal modified by bidder, and all prices not written. Certified check for \$1,000 furnished in place of guaranty.		

NOTE.—It is estimated that about 60 per cent of the dynamite shipments will be made to Arkansas and Mississippi and about 40 per cent to Louisiana, and that all Judson powder will be shipped to Arkansas.

The prices bid are referenced as follows:

a Delivered in Arkansas or Mississippi.

b Delivered in Louisiana.

c In one shipment of 5,000.

d In one shipment of 1,000 or more.

e In shipments of less than 1,000.

f Price bid 1½ cents per pound, 55 feet to the pound.

g Accepted.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., May 26, 1909.

Abstract of proposals for building Lock No. 6, in Ouachita River, near Roland Raft, Ark., received in response to advertisement dated March 26, 1909, and opened at 12 o'clock, noon, this date, by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation and allotment: Improving Ouachita River, Arkansas and Louisiana (Locks and Dams Nos. 4 and 6).]

Classification.	Approximate quantities.		Proposal No. 1.—A. M. Blodgett Construction Co., 1012 Commerce Building, Kansas City, Mo.	
	Unit.	Quantity.	Price.	Total.
Excavation.	Cubic yards.	5,800	\$1.80	\$10,440.00
Back fill and embankment	do.	4,400	1.10	4,840.00
Fill in mound	do.	3,700	.85	3,145.00
Foundation piles (driven).	Linear feet.	24,600	.65	15,990.00
Sheet piling.	Feet b. m.	156,000	62.00	9,672.00
Portland cement concrete.	Cubic yards.	10,040	13.75	138,050.00
Structural steel.	Pounds.	25,400	.07 $\frac{1}{2}$	1,905.00
Steel cover plates.	do.	5,100	.07 $\frac{1}{2}$	382.50
Cast iron.	do.	6,800	.08	544.00
Cast steel.	do.	19,500	.16	3,120.00
Steel reenforcement (except lock floor).	do.	600	.07	42.00
Steel reenforcement for lock floor.	do.	328,000	.06	19,680.00
Bolts, special irons, etc.	do.	7,900	.08	632.00
Framed timber.	Feet b. m.	6,000	65.00	390.00
Sills, etc. (oak).	do.	5,000	90.00	450.00
Needles.	do.	6,000	80.00	480.00
Gravel filling.	Cubic yards.	400	3.00	1,200.00
Heavy riprap filling.	do.	450	4.00	1,800.00
Riprap paving.	Square yards.	3,000	2.50	7,500.00
Coil chain.	Pounds.	500	.15	75.00
Winch.	Number.	1	50.00	50.00
Tile gauges.	Linear feet.	40	2.00	80.00
Draintile.	do.	3,000	.60	1,800.00
Piling in cofferdam.	do.	800	.55	440.00
Lumber in cofferdam.	Feet b. m.	106,000	68.00	7,208.00
Sand bags.	Number.	1,000	.20	200.00
Asphaltic cement.	Gallons.	200	2.00	400.00
Total.				230,515.50
Deduct for—				
Washed gravel.	Cubic yards.	2,400	1.75	4,200.00
Natural mixture.	do.	7,500	1.75	13,125.00
Total deductions.				17,325.00
Balance.				213,190.50

NOTE.—Prices for "feet b. m." are per 1,000 feet.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., March 10, 1909.

Abstract of proposals for about 22,000 cubic yards of levee work at Gold Point, on Red River, in Bossier Parish, about 12 miles above Shreveport, La., received in response to advertisement dated February 23, 1909, and opened at 12 o'clock, noon, this date, by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Red River, Louisiana and Arkansas, allotment for "levees."]

No.	Name and address of bidder.	Price per cubic yard.	Amount.	Remarks.
1	Hanson & Hanson, Lewisville, Ark.	Cents. 24.68	\$5,429.60	
2	Robert T. Clark, Natchez, Miss.	23.5	5,170.00	Bid not dated and date not inserted in guaranty.
3	M. M. Hunt, Shreveport, La.	36	7,920.00	Bid not in duplicate, as required by specification 4.
4	W. G. Burt, Benton, La.	33.25	7,315.00	Guaranty not executed in duplicate.

NOTE.—All bids rejected.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., November 3, 1908.

Abstract of proposals for about 123,000 cubic yards of levee work on Red River, known as the Chalk Level levee, in Bossier Parish, La., received in response to advertisement dated October 3, 1908, and opened at 12 o'clock noon this date, by W. W. Roof, chief clerk, acting for and in the absence of Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Red River, Louisiana and Arkansas, allotment for "Levees."]

No.	Name and address of bidder.	Price per cubic yard.	Amount.	Remarks.
1	Roach & Stansell, Memphis, Tenn.	Cents. 17	\$20,910.00	One copy of bid not dated. Names of members of firm not given (specification 9). Quantity of work bidder is prepared to undertake not stated.
2	Israel R. Bobbitt, Baton Rouge, La.	14 ⁴ ₁₀₀	17,712.00	Price bid inserted with pencil. Date of completion changed by bidder from March 1, 1909, to May 1, 1909. Quantity of work bidder is prepared to undertake not stated. Bid dated October 31; guaranty gives date October 3, 1908.
3	W. H. North, Dixie, La.....	14 ¹⁵ ₁₀₀	17,404.50	Bids for "all or none."
4	M. Tansey, Winnfield, La...	13	15,990.00	
5	W. R. Cavett, box 312, Shreveport, La.	14 ₁ ³ ₁₀₀	17,630.00	
6	O. E. Gammill, Shreveport, La.	10 ⁸⁰ ₁₀₀	13,394.70	Old form of proposal (Spirit Lake Outlet, October 14, 1908), used and modified by bidder before signature.
7	George Epple, Shreveport, La.	19 ⁸⁴ ₁₀₀	24,157.20	
8	R. L. Leonard, Memphis, Tenn.	15	18,450.00	Bid not dated. Quantity of work bidder is prepared to undertake not stated.
9	Helgason Bros., Vicksburg, Miss.	12 ⁴⁸ ₁₀₀	15,313.50	Bid not dated. Bid signed "Helgason Bros." without showing by whom signature was written. Names of members of firm not given.
10	Thomas Worthington, Brookhaven, Miss.	17 ₄ ₁₀₀	21,402.00	Bids for all or none.
11	Hall Nattin, box 380, Shreveport, La.	14 ⁴⁷ ₁₀₀	17,798.10	Guaranty typewritten and attached to bid (specification 4). Bid dated October 3, 1908, Date stated in guaranty is November 3, 1908.
12	McDade Bros. & Wimbish & Hunt, McDade, La	13 ⁷⁵ ₁₀₀	16,912.50	

^a Bid accepted.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., October 14, 1908.

Abstract of proposals for about 78,000 cubic yards of levee work on Red River, known as the Spirit Lake levee, in Lafayette County, Ark., received in response to advertisement dated September 14, 1908, and opened at 12 o'clock noon this date, by W. W. Roof, chief clerk, acting for and in the absence of Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Red River, Louisiana and Arkansas, allotment for "Outlet (Spirit Lake)."]

No.	Name and address of bidder.	Price per cubic yard.	Amount.	Remarks.
1	W. R. Cavett, box 312, Shreveport, La.	Cents. 18 ₃	\$14,300.00	Certification of guarantors informal (by telegram, filed with bid). Bid accepted for 50,700 cubic yards.
2	Hall Nattin, box 380, Shreveport, La.	17 ⁷⁴ ₁₀₀	13,837.20	
3	O. E. Gammill, Shreveport, La.	19 ³⁰ ₁₀₀	15,054.00	
4	Hanson & Hanson, Lewisville, Ark.	18	14,040.00	
5	W. H. North, Dixie, La.....	24 ²⁰ ₁₀₀	18,876.00	

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., September 8, 1908.

Abstract of proposals for furnishing Portland cement for use in construction of Lock and Dam No. 8, Ouachita River, Ark., received in response to advertisement dated August 17, 1908, and opened at 12 o'clock noon this date by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Ouachita River, Ark. and La., allotment for Locks and Dams Nos. 2 and 8.]

No.	Name and address of bidder.	Estimated quantity, 5,000 barrels of 375 pounds each.					Remarks.	
		In wooden barrels.		In sacks.				
		Price per barrel.	Total.	Price per barrel.	Total.	Charge for each sack not returned.		
a 1	Glencoe Lime and Cement Co., 1400 A Old Manchester road, St. Louis, Mo.	\$2.34	\$11,700	\$2.00	\$10,000	\$0.10	Evidence of authority of E. S. Healey, vice-president (who signed the bid), not filed.	
2	The Atlas Portland Cement Co., 30 Broad street, New York, N. Y.	2.11	10,550	1.76	8,800	.07 ^{1/2}	Bid No. 2 received by special post-office delivery at 9.30 a. m. September 9, 1908. Too late for consideration.	

a Bid accepted.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., July 13, 1908.

Abstract of proposals for building Lock and Dam No. 2 in Ouachita River at Harrisonburg, La., received in response to advertisement dated May 13, 1908, and opened at 12 o'clock noon this day by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation and allotment: Improving Ouachita River, Ark. and La. (Locks and Dams Nos. 2 and 8.)

Classification.	Approximate quantities.		(1) The H. E. Talbott Co., Dayton, Ohio. ^a		(2) The Midland Bridge Co., Kansas City, Mo. ^b	
	Unit.	Quantity.	Price.	Total.	Price.	Total.
Excavation.....	Cubic yards.....	24,400	\$0.60	\$14,640.00	\$0.50	\$12,200.00
Backfill and embankment.....	do.....	17,300	.60	10,380.00	.50	8,650.00
Foundation piles (driven).....	Linear feet.....	63,900	.60	38,340.00	.60	38,340.00
Sheet piling, wooden.....	Feet B. M.	191,300	60.00	11,478.00	70.00	13,391.00
Sheet piling, steel.....	Square feet.....	4,680	1.00	4,680.00	1.50	7,020.00
Portland cement concrete.....	Cubic yards.....	17,600	11.00	193,600.00	10.00	176,000.00
Structural steel.....	Pounds.....	373,600	.10	37,360.00	.08	29,888.00
Steel cover plates.....	do.....	8,600	.10	860.00	.05	430.00
Cast iron.....	do.....	22,200	.10	2,220.00	.12	2,664.00
Cast steel.....	do.....	24,100	.10	2,410.00	.14	3,374.00
Steel reinforcement (except lock floor).....	do.....	413,900	.04	556.00	.04	556.00
Steel reinforcement (for lock floor).....	do.....	99,000	.04	16,360.00	.04	17,382.50
Bolts, special irons, etc.....	do.....	17,700	.10	1,770.00	.10	1,770.00
Cast-iron pipe, 20" diameter.....	do.....	9,450	.10	945.00	.05	472.50
Gas pipe, 1 ¹ / ₂ " diameter.....	Linear feet.....	275	.10	27.50	.20	.50
Oil-well casing.....	Pounds.....	450	.10	45.00	.05	.22
Framed timber.....	Feet B. M.	42,700	60.00	2,562.00	50.00	2,135.00
Miter sills, posts, etc. (oak).....	do.....	11,400	100.00	1,140.00	120.00	1,368.00
Needles.....	do.....	34,500	100.00	3,450.00	75.00	2,587.50
Gravel filling.....	Cubic yards.....	600	1.50	900.00	3.00	1,800.00
Light riprap filling.....	do.....	900	4.00	3,600.00	7.00	6,300.00
Heavy riprap filling.....	do.....	1,700	6.00	10,200.00	8.00	13,600.00
Riprap paving.....	Square yards.....	5,100	2.50	12,750.00	2.00	10,200.00
Concrete sidewalk.....	do.....	40	2.50	100.00	3.00	120.00
Valves for 20" pipe.....	Number.....	4	25.00	100.00	250.00	1,000.00
Channel dredging.....	Cubic yards.....	17,000	.50	8,500.00	.40	6,800.00
Coil chain.....	Pounds.....	2,100	.10	210.00	.14	294.00
Log chain.....	do.....	4,800	.10	480.00	.10	480.00
Special winches.....	Number.....	2	100.00	200.00	210.00	420.00
Tile gauges.....	Linear feet.....	62	2.00	124.00	5.00	310.00
Maneuvering boat.....	Number.....	1	3,500.00	3,500.00	7,000.00	7,000.00
Lock-keeper's dwelling and shop.....	do.....	1	5,000.00	5,000.00	5,000.00	5,000.00
Piling in cofferdam.....	Linear feet.....	12,600	.60	7,560.00	.60	7,560.00
Lumber in cofferdam.....	Feet B. M.	412,000	60.00	24,720.00	50.00	20,600.00
Sand bags.....	Number.....	1,000	.20	200.00	.20	200.00
Total.....				420,967.50		399,990.00

^a Evidence of authority for signature not filed. Address not given at foot of proposal.

^b Bid accepted in part (for building Lock 2 without dam).

NOTE.—Prices for "feet B. M." are per 1,000 feet.

LITTLE ROCK (ARK.) DISTRICT.

RIVERS AND HARBORS.

Abstract of proposals for about 16,500 cubic yards of enlargement and about 1,800 cubic yards of topping on the levee along Vaugine Neck, opposite Pine Bluff, Arkansas River, Ark., received in response to 15-day circular advertisement and specifications dated October 12, 1908, opened by Capt. Wm. D. Connor, Corps of Engineers, Little Rock, Ark., October 27, 1908, at 11 a. m.

[Appropriation for improving Arkansas River at Pine Bluff and White River at Augusta Narrows, Ark., Arkansas River (levee).]

Name and address of bidder.	Enlargement, 16,500 cubic yards.		Topping, 1,800 cubic yards.		Total of bid.
	Price per cubic yard.	Total.	Price per cubic yard.	Total.	
R. L. Leonard, Memphis, Tenn. <i>a</i>	24	\$3,960	24½	\$441	\$4,401
A. M. Morran, Pine Bluff, Ark. <i>b</i>	25	4,125	30	540	4,665
Roach & Stansell, Memphis, Tenn.....	26	4,290	28	504	4,794
J. A. Perdue, Pine Bluff, Ark.	28	4,620	28	504	5,124

a Lowest bid accepted as to enlargement, but rejected as to topping.

b Proposal not dated and but one received.

Abstract of proposals for furnishing about 3,500 cords of brush and 6,000 poles for Pine Bluff revetment, at Pine Bluff, Ark., received in response to 30-day circular advertisement and specifications dated April 10, 1909, opened by Maj. M. L. Walker, Corps of Engineers, Little Rock, Ark., at 11 o'clock a. m., May 10, 1909.

[Improving the Arkansas River at Pine Bluff, Ark.]

No.	Name and address of bidder.	Delivered on barges at works at Pine Bluff, Ark.					
		Brush, about 3,500 cords.		Poles, about 6,000.		Aggre- gate of bid.	
		Unit price.	Total.	Unit price.	Total.		
1	C. H. Winfrey, Pine Bluff, Ark.						
2	C. E. Philpot, Pine Bluff, Ark.	\$2.00	\$7,000	6	\$360	<i>b</i> \$7,360	
3	Geo. F. Merrick, Pine Bluff, Ark.	2.25	7,875	7½	450	8,325	
4	Joseph Evins, Pine Bluff, Ark.	2.75	9,625	14	840	10,465	
5	E. H. Sanders, Pine Bluff, Ark.						

No.	Name and address of bidder.	Delivered on barges at brush fields.					
		Brush, about 3,500 cords.		Poles, about 6,000.		Aggre- gate of bid.	
		Unit price.	Total.	Unit price.	Total.		
1	C. H. Winfrey, Pine Bluff, Ark. <i>a</i>	\$1.70	\$5,950	9	\$540	\$6,490	
2	C. E. Philpot, Pine Bluff, Ark.	1.10	3,850	6	360	4,210	
3	Geo. F. Merrick, Pine Bluff, Ark.	1.25	4,375	6½	390	4,765	
4	Joseph Evins, Pine Bluff, Ark.	1.60	5,600	10	600	6,200	
5	E. H. Sanders, Pine Bluff, Ark.	2.25	7,875	5	300	8,175	

a Proposal not dated.

b Lowest and accepted bid.

ST. LOUIS (MO.) DISTRICT.

[Officer: Col. W. H. Bixby, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for two condensing plants, received in response to advertisement by poster and circular dated February 6, 1909, and opened at 11 a. m., March 8, 1909, by Col. W. H. Bixby, Corps of Engineers, St. Louis, Mo.

No.	Name and address of bidder.	One condenser.		Two condensers.		Square feet of cooling surface, each condenser.	Remarks.
		Price bid.	Delivery.	Price bid.	Delivery.		
1	M. T. Davidson & Co., Brooklyn, N. Y.	\$5,600	Days. 60	\$11,200	Days. 90	2,000	Small capacity; price high.
2	Wheeler Condenser and Engineering Co., Carteret, N. J.:						Less \$600, under each specification, for 2 condensers with No. 20 B. W. G. tubes.
	Specification A.....			8,870		2,900	
	B.....		45	8,560		2,900	
	C.....			8,870		2,900	
	D.....			8,560		2,900	
3	William H. Reeves, St. Louis, Mo.:						
	Specification A.....	6,400		12,800		3,600	
	B.....	6,500		13,000		3,600	
	C.....	6,600		13,200		3,600	
	D.....	5,150	60	10,300	60	3,600	
	E.....	5,300		10,600		3,600	
	F.....	5,350		10,700		3,600	
4	A. S. Cameron Steam Pump Works, New York, N. Y.	4,505	60	9,010	75	2,850	Price high.
5	C. H. Wheeler Manufacturing Co., Philadelphia, Pa.	2,945		5,890		2,500	
	Alternate proposal...	3,495	45	6,990	55	2,500	
6	Henry R. Worthington, New York, N. Y.	4,280		8,560		2,500	
	Alternate proposal...	4,425	60	8,850	60	2,500	
	Do.....	3,960		7,920		2,500	

Award: Wheeler Condenser and Engineering Co., under Specification A, \$8,870 for 2 condensers. Emergency contract.

Abstract of proposals for furnishing coal, received in response to advertisement dated May 27, 1909, and opened June 16, 1909, by Col. W. H. Bixby, Corps of Engineers, St. Louis, Mo.

No.	Name of bidder and character of coal.	Price per bushel.	No.	Name of bidder and character of coal.	Price per bushel.
<i>In cars at St. Louis, Mo.</i>					
1	The Consolidated Coal Co. of St. Louis, St. Louis, Mo.:		4	For United States steamers and snag boats at Memphis, Tenn.	
	Gillespie—		4	West Kentucky Coal Co., New York, N. Y.:	
	Lump.....	6 $\frac{1}{2}$		Tradewater—	
	Mine run.....	6		Lump—	
	Screenings.....	5 $\frac{1}{2}$		On board.....	13
2	Madison Coal Corporation, St. Louis, Mo.:	8		On flats.....	12
	Carterville lump.....			Mine run—	
3	Big Muddy Coal and Iron Co., St. Louis, Mo.:			On board.....	11
	Big Muddy—			On flats.....	10
	Lump.....	10		Screenings—	
	Mine run.....	8		On board.....	9 $\frac{1}{2}$
	Screenings.....	6		On flats.....	9
<i>Upon United States barges at St. Louis, Mo.</i>					
1	The Consolidated Coal Co. of St. Louis, St. Louis, Mo.:		5	The Monongahela River Consolidated Coal and Coke Co.:	
	Gillespie—			Pittsburg—	
	Lump.....	7		Lump—	
	Mine run.....	6 $\frac{1}{2}$		On board.....	14
	Screenings.....	4		On flats.....	13 $\frac{1}{2}$
2	Madison Coal Corporation, St. Louis, Mo.:	8		Mine run—	
	Carterville lump.....			On board.....	13
<i>Upon United States barges at Grand Tower, Ill.</i>					
3	Big Muddy Coal and Iron Co., St. Louis, Mo.:			On flats.....	12 $\frac{1}{2}$
	Big Muddy—			De Koven—	
	Lump.....	10		Lump—	
	Mine run.....	8		On board.....	12
	Screenings.....	6		On flats.....	11 $\frac{1}{2}$
<i>For United States steamers and snag boats at St. Louis, Mo.</i>					
1	The Consolidated Coal Co. of St. Louis, St. Louis, Mo.:		4	For United States steamers and snag boats at White River, Ark.	
	Gillespie—		4	West Kentucky Coal Co., New York, N. Y.:	
	Lump—			Tradewater—	
	On board.....	8		Lump—	
	On flats.....	7		On board.....	14
	Mine run—			On flats.....	13
	On board.....	7 $\frac{1}{2}$		Mine run—	
	On flats.....	6 $\frac{1}{2}$		On board.....	13
	Screenings—			On flats.....	12
	On board.....	5		Screenings—	
	On flats.....	4		On board.....	10 $\frac{1}{2}$
2	Madison Coal Corporation, St. Louis, Mo.:	8		On flats.....	9 $\frac{1}{2}$
	Carterville—			For United States steamers and snag boats at Helena, Ark.	
	Lump—		5	The Monongahela River Consolidated Coal and Coke Co., Pittsburg, Pa.:	
	On board.....	9		Pittsburg—	
	On flats.....	8		Lump—	
<i>For United States steamers and snag boats at Grand Tower, Ill.</i>					
3	Big Muddy Coal and Iron Co., St. Louis, Mo.:				
	Big Muddy—				
	Lump—				
	On board.....	11			
	On flats.....	10			
	Mine run—				
	On board.....	9			
	On flats.....	8			
	Screenings—				
	On board.....	7			
	On flats.....	6			
<i>For United States steamers and snag boats at Greenville, Miss.</i>					
4	West Kentucky Coal Co., New York, N. Y.:		4	For United States steamers and snag boats at Greenville, Miss.	
	Tradewater—		4	West Kentucky Coal Co., New York, N. Y.:	
	Lump—			Tradewater—	
	On board.....	13		Lump—	
	On flats.....	12		On board.....	13
	Mine run—			On flats.....	12
	On board.....	12		Mine run—	
	On flats.....	11		On board.....	12
	Screenings—			On flats.....	11
	On board.....	11			
	On flats.....	10			

Abstract of proposals for furnishing coal, received in response to advertisement dated May 27, 1909, and opened June 16, 1909, etc.—Continued.

No.	Name of bidder and character of coal.	Price per bushel.	No.	Name of bidder and character of coal.	Price per bushel.
	<i>For United States steamers and snag boats at Greenville, Miss.—Cont'd.</i>			<i>For United States steamers and snag boats at Vicksburg and Natchez, Miss.</i>	
4	West Kentucky Coal Co., New York, N. Y.—Continued. Tradewater—Continued. Screenings— On board.....	<i>Cents.</i> 10½	5	The Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.: Pittsburg— Lump— On board.....	<i>Cents.</i> 16
	On flats.....	9½		On flats.....	15
5	The Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.: Pittsburg— Lump— On board.....	15		Mine run— On board.....	15
	On flats.....	14		On flats.....	14
	Mine run— On board.....	14		De Koven— Lump— On board.....	14
	On flats.....	13		On flats.....	13
	De Koven— Lump— On board.....	13		Mine run— On board.....	13
	On flats.....	12		On flats.....	12
	Mine run— On board.....	12			
	On flats.....	11			

Awards:

No. 1. 15,000 bushels in cars at St. Louis, Mo.
60,000 bushels on barges at St. Louis, Mo.
40,000 bushels for steamers and snag boats at St. Louis, Mo.

No. 3. 125,000 bushels on barges at Grand Tower, Ill.
80,000 bushels for steamers and snag boats at Grand Tower, Ill.

No. 4. 25,000 bushels for steamers and snag boats at Memphis, Tenn.
20,000 bushels for steamers and snag boats at Greenville, Miss.

No. 5. 10,000 bushels for steamers and snag boats at Helena, Ark.
15,000 bushels for steamers and snag boats at Vicksburg, Miss.
10,000 bushels for steamers and snag boats at Natchez, Miss.

ROCK ISLAND (ILL.) DISTRICT.

[Officer: Maj. C. S. Riche, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals received in response to advertisement dated April 28, 1909, and opened by Maj. C. S. Riche, Corps of Engineers, at Rock Island, Ill., at 2 p. m., May 27, 1909, for construction and repair of dams and shore protections on the upper Mississippi River (1) between Rock Island, Ill., and Burlington, Iowa, and (2) between Burlington, Iowa, and Hannibal, Mo.

Location of work and ratios of rock to brush in place.	Number of bid.	Name and address of bidder.	Rock per cubic yard.	Brush per cubic yard.	Average per cubic yard.	Total cubic yards material that can be placed under lowest bid.
Rock Island to Burlington: 1 rock to 1 brush.	1 2 3	Albert V. Fetter, Quincy, Ill.... A. J. Whitney, Rock Island, Ill.... Albert Kirchner, Fountain City, Wis.	\$1.50 1.45 1.45	62 55 58	\$1.06 a 1.00 1.015	31,132.0 ⁰ 33,000.0 32,512.3
Burlington to Hannibal: 1 rock to 1 brush.	1 2 3	Albert V. Fetter, Quincy, Ill.... A. J. Whitney, Rock Island, Ill.... Albert Kirchner, Fountain City, Wis.	1.52 1.60 1.55	60 70 65	a 1.06 1.15 1.10	31,132.0 ⁰ 28,695.6 30,000.0 ⁰

a Recommended for acceptance.

ST. PAUL, MINNESOTA, DISTRICT.

[Officer: Maj. F. R. Shunk, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for construction of a bridge over the Mississippi River at Winnibigoshish Dam, Minnesota, received in response to advertisement dated December 3, 1908, by Maj. Francis R. Shunk, Corps of Engineers, St. Paul, under appropriation for "Operating and care of canals and other works of navigation; indefinite. Care, etc., of reservoirs at headwaters of Mississippi River."

Name of bidder.	Price.
National Iron Co., Duluth, Minn.	\$2,032
Minneapolis Steel and Machinery Co., Minneapolis ^a	1,428
St. Paul Foundry Co., St. Paul, Minn.	1,591
A. Y. Bayne & Co., Minneapolis, Minn.	1,739

^a Contract entered into December 26, 1908.

Abstract of proposals for 6,000 bags American Portland cement, required for reconstruction of Sandy Lake Dam, Minnesota, received in response to advertisement dated March 3, 1909, by Maj. Francis R. Shunk, Corps of Engineers, St. Paul, Minn., under appropriation for "Reservoirs at headwaters of Mississippi River. Reconstruction of Sandy Lake Dam."

Name of bidder.	Place of delivery.	Net price per bag.
Northwestern Lime Co.	Duluth, Minn.	35 ⁷ ₁₂
Marquette Cement Co.	La Salle, Ill.	38 ³ ₈
D. G. Cutler Co.	Duluth, Minn.	37 ¹ ₁₂
Universal Portland Cement Co. ^a	do.	33 ⁸ ₃
Do.	Minnehaha Transfer, Minn.	38 ³ ₈
Do.	Buffington, Ind., or South Chicago, Ill.	39 ³ ₁₂

^a Contract entered into March 9, 1909.

Abstract of proposals for 4,000 bags American Portland cement, required for Lock No. 1, Mississippi River, received in response to advertisement dated March 3, 1909, by Maj. Francis R. Shunk, Corps of Engineers, St. Paul, Minn., under appropriation for "Improving Mississippi River from mouth of Ohio River to Minneapolis, Minn. For between Chicago, St. Paul, Minneapolis and Omaha Railroad bridge and Washington Avenue Bridge."

Name of bidder.	Place of delivery.	Net price per bag.
Northwestern Lime Co.	Minneapolis, Minn.	32 ¹ ₂
Marquette Cement Manufacturing Co. ^a	La Salle, Ill.	30 ⁸ ₃
Universal Portland Cement Co.	Minnehaha, Minn.	32 ² ₃
Do.	Buffington, Ind., or South Chicago, Ill.	32 ¹ ₂

^a Contract entered into March 12, 1909.

KANSAS CITY, MO., DISTRICT.

[Officer: Maj. Edward H. Schulz, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals dated July 12, 1908, for coal (Gasconade boat yard), Missouri River, opened July 22, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Consolidated Coal Co.	(2) Donk Bros. Coal and Coke Co. ^a	(3) DeCamp Coal Co.
4 cars coal, bituminous, freshly mined, free from impurities.....	\$1.77	\$1.50	.....

^a Accepted.

Abstract of proposals dated July 18, 1908, for engines (Osage River), Lock and Dam No. 1, opened July 28, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Gray Motor Co., Detroit, Mich.	
	Price.	Amount.
2, only, engines, Gray 6-horsepower	\$69.40	\$138.80
2, only, extra couplings, per blueprint	1.50	3.00

Abstract of proposals dated August 18, 1908, for smokestacks (lock and dam), Osage River, opened August 28, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Jos. F. Wangler Boiler and Sheet Iron Works, St. Louis, Mo.		(2) Missouri Boiler and Sheet Iron Works, St. Louis, Mo.	(3) John Rohan & Son, St. Louis, Mo. ^a	(4) Henry J. Vetter, Jefferson City, Mo.	
	Amount.	Price.	Amount.	Price.	Amount.	Amount.
2, only, smokestacks, per specifications.....	\$95.00	\$38.00	\$76.00	\$34.95	\$69.50	\$119.00

^a Accepted.

Abstract of proposals dated August 31, 1908, for concrete piles, Missouri River (at Elwood, Kans.), opened September 10, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Raymond Concrete Pile Co., New York, N.Y.	(2) American Concrete Pile Co., Chicago, Ill.	(3) The Holme Co., New York, N. Y.	(4) Enterprise Contracting Co., Pittsburgh, Pa.
	\$0.80	\$0.80	\$1.20	\$1.15
30 piles, concrete, 35 to 50 feet long.....	\$0.80	\$0.80	\$1.20	\$1.15
50 piles, concrete, 35 to 50 feet long.....	a.70	.75	1.05	1.15

^a Accepted.

Abstract of proposals dated September 4, 1909, for chanoine wickets (Lock and Dam No. 1, Osage River), opened September 25, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Penn Bridge Co., Beaver Falls, Pa.		(2) Lawrence D. Weaning, Cleveland, Ohio.		(3) N. D. Yant Co., Pittsburg, Pa.		(4) Pennsylvania Contracting Co., Pittsburg, Pa.		(5) J. & J. B. Milholland Co., Pittsburg, Pa. ^a	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
100 wickets, complete, including all timber, metal, except horses and props.	\$41.00	\$4,100.00	\$35.00	\$3,500.00	\$43.00	\$4,300.00	\$48.90	\$4,890.00	\$23.75	\$2,375.00
For all other material, weights computed by ourselves:										
Cast iron, per pound.	.03 ³ ₄	.....	.02 ¹ ₂	.....	.0212	.....	.0195	.....	.019	.....
Cast steel, per pound.	.07 ⁷ ₈	.....	.07 ¹ ₂	.....	.0692	.....	.0525	.....	.057	.....
Wrought iron, per pound.	.05	.....			.0555	.....	.0355	.....	
Wrought steel, Wrought steel, per pound.	.07 ⁴ ₁₀	.....	.06 ³ ₈	.....	.0638	.....	.0475	.....	.051	.....

Quantity and articles.	(6) Heppenstall Forge and Knife Co., Pittsburg, Pa.		(7) Griffith Iron Works Co., St. Louis, Mo.		(8) Whitehead & Kales Iron Co.		(9) Hansell-Elcock Co., Chicago, Ill.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Amount.	
100 wickets, complete, including all timber, metal, except horses and props.	\$26.00	\$2,600.00	\$37.50	\$3,750.00	\$47.65	\$4,765.00		\$11,660.00
For all other material, weights computed by ourselves:								
Cast iron, per pound.	.022	.....	.035	.....	.049	.....	
Cast steel, do.	.03	.....	.069	.....	.011	.....	
Wrought iron, do.	.06	.....	.065	.....	.064	.....	
Wrought steel, do.	.06	.....	.074	.....	.092	.....	

^a Accepted.

Abstract of proposals dated September 19, 1908, for air compressor (lock and dam), Osage River, opened October 19, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) English Iron Works, Kansas City.	(2) C. A. Burton Machine Co., Kansas City.	(3) Westinghouse Air Brake Co., St. Louis, Mo.	(4) Norwalk Iron Works Co., So. Norwalk, Conn.	(5) Clayton Air Compressor Works, Kansas City.	(6) The Blaisdell Machinery Co., Bradford, Pa. ^a	(7) Sullivan Machinery Co., Chicago.	
							Price.	Amount.
1 only air compressor, per specifications.	}\$568	{	\$467 376	}\$249.70	\$550	\$335	{ a \$315 b 400	\$585 25 } \$610

^a Accepted.

Abstract of proposals dated September 19, 1908, for air tanks (lock and dam), Osage River, opened October 19, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) K. C. Boiler Works, Kansas City. ^a	(2) Riem- mell- Dawley Manufacturing Co., St. Louis, Mo.	(3) O. K. Harry Steel Co., St. Louis, Mo.	(4) Penn- sylvania Boiler Works, Erie, Pa.	(5) Seibel- Suessdorf Coal and Iron Man- ufacturing Co., St. Louis, Mo.
60 only air tanks, per specifications.....	b \$1,288	\$1,500	\$1,298	\$1,437	\$1,404

a Accepted.

b \$23 less if common iron.

Abstract of proposals dated September 21, 1908, for reconstructing bridge (Niobrara River), Niobrara, Nebr., opened October 21, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Mid- land Bridge Co.	(2) West- ern Bridge and Con- struction Co.
Reconstructing bridge across Niobrara River:		
(a) With 3-inch fir flooring and white-oak piles.....	\$11,700	<i>a</i> \$11,500
(b) Same as (a) but with red-cedar piles.....	11,900	11,700
(c) Same as (a) but with Douglas fir piles.....		11,800
(d) Deduct for a 2-inch flooring from (a), (b), and (c).....	200	300
(e) Add for quartered 3-inch Douglas fir flooring to (a), (b), and (c).....		900
(f) Deduct for quartered 2-inch flooring from (a), (b), and (c).....		750

a Accepted for \$11,200 as per specifications (a) and (d).

Abstract of proposals dated November 7, 1908, for strand and clips (Missouri River), Williston, N. Dak., opened November 17, 1908, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) Bunting- Stone Hard- ware Co.	(2) A. Leschens & Sons.	(3) Broderick & Bascom.
12,000 pounds strand, galvanized, $\frac{3}{8}$ " diameter.....	<i>a</i> \$2.65 cwt.....	\$0.76 hundred feet.....	\$2.89
1,500 clips, iron, $\frac{3}{8}$ " U, for 2 parts $\frac{3}{8}$ " cable, drawing.....	.06 each.....	4.20 per hundred.....	3.25

Article and quantity.	(4) Hib- bard, Spencer, Bartlett & Co.	(5) Janney, Semple, Hill & Co.	(6) Nichols, Dean & Gregg.	(7) Trenton Iron Works.
12,000 pounds strand, galvanized, $\frac{3}{8}$ " diameter.....	\$0.01 $\frac{1}{16}$ foot	\$0.824 hundred feet	\$0.35 hundred feet.....	\$0.02 $\frac{1}{8}$ pound.....

Article and quantity.	(8) American Steel Wire Co.	(9) John A. Roebling Sons Co.	(10) W.H.S. Wright Supply Co.
12,000 pounds strand, galvanized, $\frac{3}{8}$ " diameter.....	\$2.65 cwt.....	\$0.85 hundred feet.....	\$0.83.

a Accepted.

b \$2.65 cwt.....

c .06 each.....

d 4.20 per hundred.....

Abstract of proposals dated March 9, 1909, for lumber (lock and dam), Osage River, opened March 19, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) Acme Lumber Co., New Orleans.		(2) St. Louis Lumber Co., St. Louis.		(3) Boelker Lumber Co., St. Louis.		(4) Southern States Lumber Co., Jackson, Miss.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
118 pieces, 10 x 10 x 26, rough.....	\$18.00	\$460.08	\$18.00	\$460.08	\$17.00	\$434.52	\$20.00	\$511.20
302 pieces, 10 x 10 x 20, rough.....	16.00	805.33	16.00	805.33	15.00	755.00	19.00	956.32
35 pieces, 12 x 12 x 20, rough.....	18.00	151.20	16.50	138.60	16.00	134.40	20.00	168.00
21 pieces, 11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 23, surfaced on four sides.....	28.00	162.29	20.00	115.92	18.00	104.33	20.00	115.92
21 pieces, 3 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 21, surfaced on four sides.....	26.00	45.86	20.00	35.28	18.00	31.75	20.00	35.28
450 pieces, 10 x 12 x 20, rough.....	13.00	1,170.00	13.50	1,215.00	13.50	1,215.00	14.00	1,260.00
250 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$, surfaced on one side and two ends.....	18.00	225.00	17.00	212.50	16.00	200.00	18.00	225.00
190 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 22, surfaced on one side and two ends.....	19.00	198.55	18.00	188.10	17.00	177.65	18.00	188.10
300 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 24, surfaced on one side and two ends.....	19.00	342.00	18.00	324.00	17.00	306.00	18.50	333.00
325 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 26, surfaced on one side and two ends.....	19.00	401.37	19.00	401.37	18.00	380.25	19.50	411.93
540 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 28, surfaced on one side and two ends.....	20.00	756.00	20.00	756.00	19.00	718.20	20.00	756.00
645 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 30, surfaced on one side and two ends.....	20.00	967.50	21.00	1,015.87	20.00	967.50	20.50	991.68
550 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 32, surfaced on one side and two ends.....	20.00	880.00	22.00	968.00	21.00	924.00	21.50	946.00
180 pieces, 2 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 34, surfaced on one side and two ends.....	20.00	306.00	23.00	351.90	22.00	336.60	22.00	336.60
75 pieces, 2 x 4 x 16, surfaced on one side and one end.....	16.00	15.30	.....	.....	14.00	13.38	12.00	11.47
50 pieces, 4 x 4 x 16, surfaced on one side and two ends.....	16.00	19.25	.....	.....	14.00	16.85	11.00	13.24
20 pieces, 4 x 6 x 22, surfaced on one side and two ends.....	17.00	14.96	.....	.....	14.00	12.32	11.50	10.12
10,000 feet b. m., 2 x 8 to 14 x 16, surfaced on one side.....	16.00	160.00	.....	.....	15.00	150.00	14.00	140.00
8,000 feet b. m., 2 x 8 to 14 x 18, surfaced on one side.....	16.00	128.00	.....	.....	15.00	120.00	14.00	112.00
8,000 feet b. m., 2 x 8 to 14 x 20, surfaced on one side.....	16.00	128.00	.....	.....	15.00	120.00	15.00	120.00
6,000 feet b. m., 2 x 8 to 14 x 22, surfaced on one side.....	17.00	102.00	.....	.....	16.50	99.00	15.50	95.00
6,000 feet b. m., 2 x 8 to 14 x 26, surfaced on one side.....	18.00	108.00	.....	.....	17.50	105.00	16.50	99.00
12,000 feet b. m., 1 x 8 to 14 x 18, surfaced on one side.....	17.00	204.00	.....	.....	15.00	180.00	15.00	180.00
6,000 feet b. m., 1 x 8 to 14 x 16, surfaced on one side.....	17.00	102.00	.....	.....	15.00	90.00	15.00	90.00
3,000 feet b. m., 1 x 8 to 14 x 22, surfaced on one side.....	18.00	54.00	.....	.....	16.50	49.50	16.00	48.00
3,000 feet b. m., 1 x 8 to 14 x 26, surfaced on one side.....	18.00	54.00	.....	.....	17.50	52.50	15.00	45.00
4 pieces, 4 x 12 x 30, surfaced on one side to 3 $\frac{3}{4}$ x 12.....	30.00	14.40	22.00	10.56	22.00	10.56	20.00	9.60
4 pieces, 4 x 12 x 26, surfaced on one side to 3 $\frac{3}{4}$ x 12.....	28.00	11.65	22.00	9.15	21.00	8.73	19.00	7.90
35 pieces, 3 x 6 x 24, surfaced on one side and two ends, 2 $\frac{3}{4}$ x 5 $\frac{1}{2}$, out-gauged on one end $\frac{1}{8}$ inch.....	25.00	31.50	20.50	25.83	18.00	22.68	17.00	21.42
Total		8,018.24	.....	.....	7,735.72	.....	8,235.78	

Abstract of proposals dated March 9, 1909, for lumber (lock and dam), Osage River, opened March 19, 1909, by Capt. Edward H. Schulz, Corps of Engineers—Continued.

Quantity and articles.	(5) Long-Bell Lumber Co., Kansas City.		(6) A. L. Hough- ton & Co., Kansas City.		(7) Deatherage Lumber Co., Kansas City, Mo.		(8) Central Coal and Coke Co., Kansas City.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
118 pieces, 10 x 10 x 26, rough.....	\$17.50	\$447.30	\$25.50	\$651.78	\$16.50	\$421.74	\$15.00	\$383.40
302 pieces, 10 x 10 x 20, rough.....	15.50	780.17	23.50	1,182.80	15.50	780.17	13.50	689.50
35 pieces, 12 x 12 x 20, rough.....	17.50	147.00	23.50	197.40	16.00	134.40	14.50	121.80
21 pieces, 11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 23, surfaced on four sides.....	19.00	110.13	23.50	165.19	21.50	124.62	18.00	104.33
21 pieces, 3 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 21, surfaced on four sides.....	19.00	33.51	28.50	50.27	20.50	36.16	18.00	31.75
450 pieces, 10 x 12 x 20, rough.....	17.50	1,575.00	23.50	2,115.00	14.00	1,260.00	12.50	1,125.00
250 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$, surfaced on one side and two ends.....	16.50	206.25	21.50	268.75	15.50	193.75	13.00	162.50
190 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 22, surfaced on one side and two ends.....	18.50	193.32	22.50	235.12	16.00	167.20	14.00	146.30
300 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 24, surfaced on one side and two ends.....	18.50	333.00	22.50	405.00	16.00	288.00	14.00	252.00
325 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 26, surfaced on one side and two ends.....	19.50	411.93	23.50	496.43	17.00	359.12	15.00	316.88
540 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 28, surfaced on one side and two ends.....	20.50	774.90	24.50	926.10	17.50	661.50	16.00	604.80
645 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 30, surfaced on one side and two ends.....	21.50	1,040.05	25.50	1,233.55	18.00	870.75	17.00	822.38
550 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 32, surfaced on one side and two ends.....	23.50	1,034.00	26.50	1,166.00	19.00	836.00	18.00	792.00
180 pieces, 2 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 34, surfaced on one side and two ends.....	23.50	359.55	27.50	420.75	19.50	298.35	19.00	290.70
75 pieces, 2 x 4 x 16, surfaced on one side and one end.....	12.50	11.95	21.00	20.08	15.00	14.34	10.50	10.04
50 pieces, 4 x 4 x 16, surfaced on one side and two ends.....	11.00	13.24	25.00	30.10	14.00	16.85	11.00	13.24
20 pieces, 4 x 6 x 22, surfaced on one side and two ends.....	12.00	10.56	25.00	22.00	15.00	13.20	11.00	9.68
10,000 feet b. m., 2 x 8 to 14 x 16, sur- faced on one side.....	13.06 $\frac{1}{4}$	130.63	28.00	280.00	17.00	170.00	11.00	110.00
8,000 feet b. m., 2 x 8 to 14 x 18, sur- faced on one side.....	14.50	116.00	28.00	224.00	17.00	136.00	11.75	94.00
8,000 feet b. m., 2 x 8 to 14 x 20, sur- faced on one side.....	14.50	116.00	28.00	224.00	17.00	136.00	12.00	96.00
6,000 feet b. m., 2 x 8 to 14 x 22, sur- faced on one side.....	16.62 $\frac{1}{2}$	99.75	28.00	168.00	18.00	108.00	13.00	78.00
6,000 feet b. m., 2 x 8 to 14 x 26, sur- faced on one side.....	17.37 $\frac{1}{2}$	104.25	28.00	168.00	19.00	114.00	14.00	84.00
12,000 feet b. m., 1 x 8 to 14 x 18, sur- faced on one side.....	.....	.....	29.50	254.00	19.00	228.00	15.00	180.00
6,000 feet b. m., 1 x 8 to 14 x 16, sur- faced on one side.....	15.92	95.52	29.50	177.00	19.00	114.00	15.00	90.00
3,000 feet b. m., 1 x 8 to 14 x 22, sur- faced on one side.....	.....	.....	29.50	88.50	20.00	60.00	15.00	45.00
3,000 feet b. m., 1 x 8 to 14 x 26, sur- faced on one side.....	.....	.....	29.50	88.50	20.00	60.00	15.00	45.00
4 pieces, 4 x 12 x 30, surfaced on one side to 3 $\frac{1}{2}$ x 12.....	22.50	10.80	35.00	16.80	21.50	10.32	17.50	8.40
4 pieces, 4 x 12 x 26, surfaced on one side to 3 $\frac{1}{2}$ x 12.....	20.50	8.53	32.50	13.52	20.50	8.53	15.50	6.45
35 pieces, 3 x 6 x 24, surfaced on one side and two ends, 2 $\frac{1}{2}$ x 5 $\frac{1}{2}$, out- gauged on one end $\frac{1}{8}$ inch.....	17.00	21.42	32.00	40.32	20.50	25.83	14.00	17.64
Total.....		8,184.76		11,328.96		7,646.83		6,720.79

Abstract of proposals dated March 9, 1909, for lumber (lock and dam), Osage River, opened March 19, 1909, by Capt. Edward H. Schulz, Corps of Engineers—Continued.

Quantity and articles.	(9) Berthold & Jennings, St. Louis.		(10) Merchants Lumber and Supply Co., Kansas City.		(11) C. L. Carter Lumber Co., Kansas City.		(12) The Bay Lumber Co., Bay St. Louis, Miss.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
118 pieces, 10 x 10 x 26, rough.....	\$16.00	\$408.96	\$13.00	a\$332.28	\$16.50	\$421.74	\$20.00	\$511.34
302 pieces, 10 x 10 x 20, rough.....	16.00	805.33	13.00	654.33	14.50	a 729.83	20.00	1,006.68
35 pieces, 12 x 12 x 20, rough.....	16.00	134.40	15.00	a 109.20	15.00	126.00	20.00	168.00
21 pieces, 11 $\frac{3}{4}$ x 11 $\frac{3}{4}$ x 23, surfaced on four sides.....	18.50	107.23	18.00	104.33	16.00	a 92.74	20.00	115.92
21 pieces, 3 $\frac{3}{4}$ x 11 $\frac{3}{4}$ x 21, surfaced on four sides.....	18.50	32.63	20.00	35.28	16.00	a 28.22	20.00	35.28
450 pieces, 10 x 12 x 20, rough.....	13.00	1,170.00	10.50	945.00	11.50	a1,035.00	16.00	1,440.00
250 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 20, surfaced on one side and two ends.....	15.00	187.50	15.00	187.50	15.00	a 187.50	18.00	225.00
190 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 22, surfaced on one side and two ends.....	16.00	167.20	15.00	156.75	16.00	a 167.20	18.00	188.10
300 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 24, surfaced on one side and two ends.....	16.00	288.00	15.00	a 270.00	17.00	306.00	18.00	324.00
325 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 26, surfaced on one side and two ends.....	18.00	380.25	16.00	a 338.00	18.00	380.25	18.00	380.25
540 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 28, surfaced on one side and two ends.....	18.00	680.40	16.00	a 604.80	19.00	718.20	18.00	680.40
645 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 30, surfaced on one side and two ends.....	22.00	1,064.25	18.00	a 870.75	20.00	967.50	18.00	870.75
550 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 32, surfaced on one side and two ends.....	22.00	968.00	19.00	a 836.00	21.00	924.00	18.00	792.00
180 pieces, 2 $\frac{3}{4}$ x 9 $\frac{3}{8}$ x 34, surfaced on one side and two ends.....	22.00	336.60	19.00	a 290.70	22.00	336.60	18.00	275.40
75 pieces, 2 x 4 x 16, surfaced on one side and one end.....	16.00	15.30	12.00	11.47	12.75	a 12.19	15.00	12.00
50 pieces, 4 x 4 x 16, surfaced on one side and one end.....	16.00	19.25	12.00	14.44	13.00	a 15.64	15.00	12.00
20 pieces, 4 x 6 x 22, surfaced on one side and one end.....	16.00	14.08	12.00	a 10.56	14.50	12.76	15.00	13.20
10,000 feet b. m., 2 x 8 to 14 x 16, surfaced on one side.....	18.00	180.00	14.00	140.00	12.50	a 125.00	16.00	160.00
8,000 feet b. m., 2 x 8 to 14 x 18, surfaced on one side.....	18.00	144.00	14.00	112.00	14.50	a 116.00	16.00	128.00
8,000 feet b. m., 2 x 8 to 14 x 20, surfaced on one side.....	18.00	144.00	15.00	120.00	14.50	a 116.00	16.00	128.00
6,000 feet b. m., 2 x 8 to 14 x 22, surfaced on one side.....	19.12 $\frac{1}{2}$	114.75	15.00	a 90.00	18.00	108.00	16.00	96.00
6,000 feet b. m., 2 x 8 to 14 x 26, surfaced on one side.....	20.25	121.50	16.00	a 96.00	19.50	117.00	16.00	96.00
12,000 feet b. m., 1 x 8 to 14 x 18, surfaced on one side.....	20.00	240.00	18.00	216.00	17.00	a 204.00	16.00	192.00
6,000 feet b. m., 1 x 8 to 14 x 16, surfaced on one side.....	20.00	120.00	18.00	108.00	15.00	a 90.00	16.00	96.00
3,000 feet b. m., 1 x 8 to 14 x 22, surfaced on one side.....	21.25	63.75	22.00	66.00	19.25	a 57.75	16.00	48.00
3,000 feet b. m., 1 x 8 to 14 x 26, surfaced on one side.....	22.50	67.50	26.00	78.00	23.00	a 69.00	16.00	48.00
4 pieces, 4 x 12 x 30, surfaced on one side to 3 $\frac{3}{4}$ x 12.....	27.00	12.96	20.00	a 9.60	22.00	10.56	20.00	9.60
4 pieces, 4 x 12 x 26, surfaced on one side to 3 $\frac{3}{4}$ x 12.....	26.00	10.82	20.00	8.32	20.00	a 8.32	20.00	8.32
35 pieces, 3 x 6 x 24, surfaced on one side and two ends, 2 $\frac{3}{4}$ x 5 $\frac{3}{8}$, out-gauged on one end $\frac{1}{8}$ inch	23.00	28.98	13.00	22.68	17.00	a 21.42	16.00	20.16
		8,027.64		6,837.99		7,504.42		8,070.40

a Accepted.

Abstract of proposals dated March 9, 1909, for piles (Osage River), Lock and Dam No. 1, opened March 19, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Quantity and articles.	(1) C. J. Carter Lumber Co.	(2) St. Louis Lumber Co.		(3) Berthold & Jennings.		(4) L. M. Gex.	(5) Chas. C. Curry, St. Louis.	
		Price.	Amount.	Price.	Amount.		Price.	Amount.
	Cents.	Cents.	Cents.	Cents.	Cents.	Each.		
20 only, piles, round, 22' ..	8	10	\$44.00	8½	\$37.40	8	\$1.36	\$27.20
50 only, piles, round, 24' ..	8	10	120.00	8½	102.00	8	1.44	72.00
75 only, piles, round, 26' ..	8	10½	204.75	8½	165.75	8	1.56	117.00
50 only, piles, round, 28' ..	8	10½	147.00	8½	119.00	8	1.68	84.00
26 only, piles, round, 34' ..	8	11	97.24	9	79.56	8	2.04	53.04
76 only, piles, round, 37' ..	8	11½	323.38	10	281.20	8	2.22	168.72
90 only, piles, round, 50' ..	8	13	585.00	11	495.00	8	3.00	270.00
385 only, piles, round, 40' ..	8	15	2,310.00	10	1,540.00	8	2.40	924.00

Quantity and articles.	(6) J. M. Craig.		(7) Mer- cantile Lumber Co.	(8) Cen- tral Coal and Coke Co.	(9) Death- erage Lumber Co.	(10) Houghton & Co.	
	Price.	Amount.				Price.	Amount.
	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
20 only, piles, round, 22' ..	9	\$39.60	7½	8	14	9½	9½
50 only, piles, round, 24' ..	9	108.00	7½	8	14	9½	9½
75 only, piles, round, 26' ..	9	175.50	7½	8	14	9½	9½
50 only, piles, round, 28' ..	9	126.00	7½	8	14	9½	9½
26 only, piles, round, 34' ..	10	88.40	7½	8	14	9½	9½
76 only, piles, round, 37' ..	10	281.20	7½	8	14	9½	9½
90 only, piles, round, 50' ..	11½	517.50	7½	8½	14	9½	9½
385 only, piles, round, 40' ..	11	1,694.00	7½	8	14	9½	9½

a Accepted.

To be yellow or southern pine.

Abstract of proposals dated March 26, 1909, for engine (pile driver at Gasconade boat yard), opened April 6, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) English Iron Works Co.	(2) Schoellhorn-Albrecht Co.	(3) Johnson-Robinson Machine Co.	(4) American Hoist and Derrick Co.
1 engine, double-cylinder hoisting, with 2 friction drums, 2 wrench heads, cylinder diameter inside 7", stroke 10" ..		\$570	\$600	<i>a</i> \$540

a Accepted.

Abstract of proposals dated March 26, 1909, for boiler flues, mud drum, etc. (Gasconade Yard), opened April 6, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) Jno. O'Brien Boiler Works.	(2) Jos. F. Wangler B. and S. I. Works.	(3) Jno. Rohan & Son.	(4) Schoellhorn-Albrecht.	
				Price.	Amount.
162 flues, 3" x 9'8", No. 12 gauge, for Erie boilers. 5 dozen rings, expanding, copper, 24" wide, for 4" hose, of solid tubing, not brazed.		\$287.00	<i>a</i> \$190.00	\$234.90	<i>Each.</i> \$1.70
1 drum, mud, with 70 rivets, 8" x 1½" x 1½", per sketch ..		41.00	<i>a</i> 46.00	40.00	\$275.40

a Accepted.

Abstract of proposals dated April 11, 1909, for strand, etc. (St. Joseph), opened April 21, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) Moran Bolt and Nut Co.		(2) Continental Bolt and Iron Co.		(3) K. C. Bolt and Nut Co.		(4) Pittsburg Steel Co.		(5) St. Louis Screw Co.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
2,000 clips, 2 for $\frac{3}{8}$...	\$1.90	^a \$38.00	\$2.45	\$49.00	.....	.....	.....	.....	\$0.03 ⁴ ₆	\$68.00
1,000 clips, 4 for $\frac{3}{8}$...	2.70	^a 27.00	3.30	33.00	.....	.....	.....	.....	^{0.4} ₄	42.50
2 kegs washers, $\frac{1}{16}$...	f. 02	^a 8.00	.....	.....	\$2.30	\$0.20	.....	.....	b2.15	8.60
2 kegs washers, $\frac{1}{8}$...	f. 02	^a 8.00	.....	.....	2.30	9.20	.....	.....	b2.15	8.60
10 kegs nails, 40d...	2.30	23.00	.....	.....	.....	.....	\$1.90	\$19.00	.....	.....
10 kegs nails, 60d...	2.30	23.00	.....	.....	.....	.....	1.90	19.00	.....	.....
1,820 pieces bolts, $\frac{3}{8} \times 21$...	.....	113.20	5.05	^a 91.91	5.60	101.92	.....	.....	5.62	102.28
1,300 pieces bolts, $\frac{7}{8} \times 19$...	.....	105.30	6.50	^a 84.50	7.35	95.55	.....	.....	7.37	95.81
750 pieces bolts, $\frac{7}{8} \times 21$...	.....	65.20	7.50	^a 56.25	7.90	59.25	.....	.....	8.00	60.00
Article and quantity.	(6) Nichols Wire Co.		(7) J. A. Roeblings Son Co.		(8) Broderick & Bascom.		(9) Schroeter Bros.		(10) American Iron and Steel Manufacturing Co.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
60,000 feet of strand, $\frac{3}{8}$, galvanized...	.....	.....	^b \$0.78	\$448.00	\$0.779	\$467.40	.....	.....	.....	.....
2,000 clips, 2 for $\frac{3}{8}$...	.....	.....	.....	.....	.02	40.00	.....	.....	^e \$2.85	\$57.00
1,000 clips, 4 for $\frac{3}{8}$...	.....	.....	.....	.....	.0285	28.50	.....	.....	3.80	38.00
2 kegs washers, $\frac{1}{16}$...	.....	.....	.....	.....	2.10	8.40	\$2.65	\$10.60	2.00	8.00
2 kegs washers, $\frac{1}{8}$...	.....	.....	.....	.....	2.10	8.40	2.65	10.60	.20	8.80
10 kegs nails, 40d...	\$2.43	\$24.30	.....	.....	2.35	23.50	2.20	^a 22.00	.....	.....
10 kegs nails, 60d...	2.43	24.30	.....	.....	2.35	23.50	2.20	^a 22.00	.....	.....
1,820 pieces bolts, $\frac{3}{8} \times 21$...	.....	.....	.....	.....	.0653	11.85	^b 2.33	124.67	5.34	97.19
1,300 pieces bolts, $\frac{7}{8} \times 19$...	.....	.....	.....	.....	.085	110.50	2.33	115.69	7.00	91.00
750 pieces bolts, $\frac{7}{8} \times 21$...	.....	.....	.....	.....	.09 ¹ ₈	68.75	2.33	72.69	7.56	56.70
Articles and quantity.	(11) Bunting-Stone Hardware Co.		(12) N. H. Elmer.		(13) A. Leschens & Sons.		(14) Richards & Conover.			
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
60,000 feet of strand, $\frac{3}{8}$, galvanized...	^c \$2.65	\$424.00	\$0.2294	\$493.76	^b \$0.71	\$426.00	^d \$9.00	^a \$540.00	.....	.....
2,000 clips, 2 for $\frac{3}{8}$...	0.4 ³ ₄	95.00	22.00	44.00	2.10	42.00	.....	.....	.....	.....
1,000 clips, 4 for $\frac{3}{8}$...	0.4 ³ ₄	47.50	30.00	30.00	2.95	29.50	.....	.....	.....	.....
2 kegs washers, $\frac{1}{16}$...	.....	.....	2.60	10.40	.....	8.40	.....	.....	.....	.....
2 kegs washers, $\frac{1}{8}$...	.....	.....	2.60	10.40	.....	8.40	.....	.....	.....	.....
10 kegs nails, 40d...	.....	.....	2.30	23.00	2.30	23.00	.....	.....	.....	20.40
10 kegs nails, 60d...	.....	.....	2.30	23.00	2.30	23.00	.....	.....	.....	25.50
1,820 pieces bolts, $\frac{3}{8} \times 21$...	26.70	138.51	6.78	123.40	.....	.....	124.52	.....	.....	131.04
1,300 pieces bolts, $\frac{7}{8} \times 19$...	35.00	129.68	8.89	115.57	.....	.....	115.83	.....	.....	122.85
750 pieces bolts, $\frac{7}{8} \times 21$...	37.80	80.80	9.60	72.00	.....	.....	71.72	.....	.....	76.50

^a Accepted.^b Hundred feet.^c Hundredweight.^d Thousand.^e Each.^f Pound.

Abstract of proposals dated April 10, 1909, for bucket and hoist (Osage River), Lock and Dam No. 1, opened April 20, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) H. S. Flory Manufacturing Co., Bangor, Pa.	(2) Schoellhorn-Albrecht Machine Co., St. Louis, Mo.	(3) South St. Louis Foundry, St. Louis, Mo.	(4) W. C. Johnson & Sons, St. Louis, Mo.	(5) Johnson-Robinson Machine Co., St. Louis, Mo.	(6) English Iron Works, Kansas City.	(7) The Hayward Co., New York, N. Y.
1 hoist, steam, double cylinder, 2 drums.....	\$878	\$925	\$675	\$961	\$850	<i>b</i> \$1,383	
With 3 drums.....	1,056	975		1,062	900		
1 bucket, orange peel, per specifications:							
$\frac{1}{4}$ yard capacity.....							\$650
1 yard capacity.....							682

a Accepted.

b For hoist and bucket.

Abstract of proposals dated April 18, 1909, for wire rope (Osage) Lock and Dam No. 1, opened April 28, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) A. Leschan & Sons Rope Co., St. Louis, Mo.		(2) Broderick & Bascom, St. Louis, Mo.		(3) Simmons Hardware Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
1,000' wire rope, special steel, hoisting, $\frac{3}{8}$ ", 6 strands, 19 wires to strand.....	\$0.067	\$67.00	\$0.067	<i>a</i> \$67.00		
3 sheaves, $1\frac{1}{2}$ " x 6".....	.32	.96			\$0.30	<i>a</i> \$0.90
3 sheaves, $1\frac{1}{2}$ " x 8".....	.53	1.59			.33	<i>a</i> .99
2 sheaves, $1\frac{1}{2}$ " x 7".....	.46	.92			.43	<i>a</i> .86
2 sheaves, $1\frac{1}{2}$ " x 9".....	.72	1.44			.68	<i>a</i> 1.36
2 sheaves, $1\frac{1}{2}$ " x 9".....	.72	1.44			.74	<i>a</i> 1.48
4 blocks, tackle, single, wood with becketts and hooks, to use 1" manila rope.....	.37	1.48	.35	1.40	.33	<i>a</i> 1.32

a Accepted.

Abstract of proposals dated June 4, 1909, for engines (snag boat Missouri), opened June 15, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

		4 engines, per specifications.
	Price.	Amount.
(1) John Ramming Machine Co., St. Louis, Mo.....		\$700
(2) Victor R. Browning & Co., Cleveland, Ohio.....		1,295
(3) J. S. Mundy, Newark, N. J.....		720
(4) American Hoist and Derrick Co., St. Paul, Minn.....		1,452
(5) Schoellhorn-Albrecht Machine Co., St. Louis, Mo. <i>a</i>		5,808
		1,800

a Accepted.

Abstract of proposals dated June 4, 1909, for capstans (snag boat Missouri), opened June 15, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

	4 capstans, cast iron, and machinery.
(1) Schoellhorn-Albrecht Machine Co., St. Louis, Mo. <i>a</i>	\$1,400
(2) Smedley Steam Pump Co., Dubuque, Iowa.....	1,700
(3) John Ramming Co., St. Louis, Mo.....	2,612

a Accepted.

Abstract of proposals dated June 9, 1909, for smokestack and breeching (Osage River) Lock and Dam No. 1, opened June 19, 1909, by Capt. Edward H. Schulz, Corps of Engineers.

Article and quantity.	(1) Henry J. Vetter, Jefferson City, Mo.	(2) Jno. Rohan & Son Boiler Co., St. Louis, Mo. ^a	(3) Jos. F. Wangler B. & S. I. Co., St. Louis, Mo.	(4) Schoellhorn-Albrecht Machine Co., St. Louis, Mo.	(5) Kansas City Boiler Works, Kansas City, Mo.
1 smokestack, No. 16 gauge..... Breeching, No. 14 iron.....		\$71.12 { \$19.50 20.00	\$54.00	\$70.00	\$50.00

^a Accepted.

NASHVILLE (TENN.) DISTRICT.

[Officer: Maj. Wm. W. Harts, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for lumber for Dam No. 4 in response to advertisement dated March 18, 1909, opened April 17, 1909, by Maj. Wm. W. Harts, Corps of Engineers, at the United States Engineer Office, Nashville, Tenn.

[Improving Cumberland River above Nashville, Tenn.]

No.	Name and address of bidder.	At Lock A.		At Lock 4.		Remarks.	
		About 700,000 feet b. m.		About 700,000 feet b. m.			
		Per M feet b. m.	Total.	Per M feet b. m.	Total.		
1	Parrott - Pope Lumber Co., Jacksonville, Fla.	\$27.90	\$19,530	\$32.50	\$22,750	^a Certified check for \$2,500 filed in lieu of guaranty bond. (a)	
2	D. G. Gillespie & Co., Pittsburgh, Pa.	27.10	18,970	.....	.....	^a It does not appear whether or not guarantors are officers of the corporation. Bid not in duplicate.
3	O'Neil Lumber Co., St. Louis, Mo.	27.00	18,900	.....	.....	Only one individual guarantor.
4	A. E. Baird Lumber Co., Nashville, Tenn.	26.00	18,200	.....	.....	^a Certified check for \$2,500 filed in lieu of guaranty bond. (a)
5	Steverson & Herzfeld Lumber Co., Alexander City, Ala.	29.97	20,979	.....	.....	^a Guaranty informal.
6	Robinson Lumber Veneer and Box Co., New Orleans, La.	25.25	17,675	.....	.....	Certified check for \$2,000 filed in lieu of guaranty bond. Delivery at Lock 4 recommended for acceptance.
7	Rich Lumber Manufacturing Co., Hattiesburg, Miss.	29.03	20,321	.....	.....	Certified check for \$1,842.30 filed in lieu of guaranty bond.
8	W. C. Rodgers, Hattiesburg, Miss.	25.75	18,025	28.50	19,950	(a)	
9	Herman Watkins, Hattiesburg, Miss.	26.35	18,445	.....	.....	Date of proposal as referred to by guarantor incorrect.
10	Henderson Lumber Co., Sanford, Ala.	.....	.....	29.25	20,475	^a Date of proposal as referred to by guarantor incorrect.
11	G. Elias & Bro., Buffalo, N. Y.	26.50	18,550	.....	.....	^a Date of proposal as referred to by guarantor incorrect.
12	J. K. Joice, Chicago, Ill.	31.70	22,190	32.70	22,890	Bid appears to be invalid under paragraph 1 of specifications. (a)	
13	McLeod Lumber Co., Birmingham, Ala.	28.50	19,950	28.50	19,950		
14	Mercantile Lumber and Supply Co., Kansas City, Mo.	^b 24.85	17,395	.....	.....
15	Charles Este Co., Philadelphia, Pa.	25.75	18,025	.....	.....

^a Failed to fully comply with paragraph 7, Instructions to bidders.

^b Average.

CHATTANOOGA, TENN., DISTRICT.

[Officer: Maj. Wm. W. Harts, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing machinery, fittings, etc., for a dipper dredge, opened by Maj. Wm. W. Harts, Corps of Engineers, Nashville, Tenn., May 8, 1909, in response to advertisement dated April 8, 1909.

[Improving Tennessee River below Chattanooga, Tenn. Alabama and Kentucky: Between Chattanooga and Riverton.]

No.	Name and address of bidder.	1.	2.	Remarks.
		Dredge machinery fittings, etc., subject to United States general specifications and regulations and in accordance with detail plans and specifications submitted by bidder.	Dredge machinery fittings, etc., in accordance with United States requirements except as modified by plans and specifications of bidder.	
1	The Bucyrus Co., South Milwaukee, Wis.	\$19,850	\$19,250	Paragraph 7, Instructions to bidders not compiled with. Proposition No. 1 recommended for acceptance.
2	G. & W. Manufacturing Co. (Incorporated), 29 Courtlandt street, New York, N. Y.	12,973	.....	Failed to furnish detail drawings showing strength of various parts.
3	American Steel Dredge Works, Logansport, Ind.	.....	12,300	Paragraph 7, Instructions to bidders, not compiled with. Do not furnish an authorized surety company. Smaller machinery specified than called for in specifications.
4	Osgood Dredge Co., Albany, N. Y.	19,740	.....	Certified check for \$1,974 filed in lieu of guaranty bond. Hydraulic pressure pump proposed for operating the frictions on the main engines. United States specifications provide for operating frictions by steam.

Abstract of proposals for constructing and erecting three sets of steel lock gates at Riverton, Ala., Lock, Tennessee River, opened April 19, 1909, by Maj. Wm. W. Harts, Corps of Engineers, Nashville, Tenn.

[Improving Tennessee River below Chattanooga, Tenn., at Colbert and Bee Tree Shoals.]

No.	Name and address of bidder.	Three sets steel lock gates.	Omitting guard gates.
1	Lawrence D. Weaning, Cleveland, Ohio.....	\$57,500	\$38,000
2	Baltimore Bridge Co., Baltimore, Md.....	56,885	38,961
3	Independent Bridge Co., Pittsburg, Pa.....	47,295	32,665
4	Penn Bridge Co., Beaver Falls, Pa.....	55,490	37,870

Abstract of proposals for constructing and erecting steel lower gates for Hales Bar Lock, Tennessee River, opened July 15, 1908, in the United States engineer office, custom-house, Nashville, Tenn., by Maj. Wm. W. Harts, Corps of Engineers.

[Tennessee River below Chattanooga, Tenn., Alabama, and Kentucky—At Hales Bar.]

No.	Name and address of bidder.	Steel castings.	Steel lock gates.	Total.	Remarks.
1	Baltimore Bridge Co., Baltimore, Md.	\$78	\$38,890	\$38,968	Authority of official to sign proposal not shown.
2	Penn Bridge Co., Beaver Falls, Pa.	89	37,339	37,428	
3	N. D. Yant & Co., Allegheny, Pa.	85	33,652	33,737	Telegraphic bid; confirmation by formal bid received July 16, 1908. Paragraph 7, instructions to bidders, not complied with.
4	Modern Steel Structural Co., Waukesha, Wis.	100	31,090	32,090	Proposal received at 12.46 p. m., July 15, 1908. Advertised time of opening, 11 a. m. Authority of official to sign proposal not shown. Certified check for \$5,000 filed in lieu of guarantor's bond.

Abstract of proposals for building two brick dwellings and one brick storehouse at Colbert Shoals Canal Lock near Riverton, Ala., opened August 6, 1908, by Maj. Wm. W. Harts, Corps of Engineers, Nashville, Tenn.

[Improving Tennessee River below Chattanooga, Tenn., Alabama, and Kentucky—At Colbert and Bee Tree shoals.]

No.	Name and address of bidder.	Two lockmen's houses and out-houses complete, excluding foundations and drains.		One storehouse complete, excluding foundations and drains.	Two cisterns complete.		Excavations, about 460 cubic yards.	Concrete for walls, floors, etc., about 290 cubic yards.	
		Each	Total.		Each.	Total.			
1	George Becking, 809 Henderson avenue, Chattanooga, Tenn.	\$3,828.20	\$7,656.40	\$1,662.72	\$375	\$750	\$1.50	\$690	\$7.50 \$2,175
2	Evans Bro.'s Construction Co., Birmingham, Ala.	3,975.00	7,950.00	1,675.00	350	700	.40	184	7.50 2,175
3	Brandon & Davis, Chattanooga, Tenn.	3,750.00	7,500.00	1,600.00	190	380	.50	230	10.00 2,900

No.	Name and address of bidder.	Drains, about 540 linear feet.		Concrete walks, about 210 square yards.		Grand total.	Remarks.
		Per linear foot.	Total.	Per square yard.	Total.		
1	George Becking, 809 Henderson avenue, Chattanooga, Tenn.	\$0.26	\$140.40	\$1.60	\$336.00	\$13,410.52	Filed certified check for \$1,000 in lieu of guarantor's bond.
2	Evans Bro.'s Construction Co., Birmingham, Ala.	.15	81.00	1.20	252.00	13,017.00	Paragraph 7, instructions to bidders, not complied with. Certified check for \$1,000 filed in lieu of guarantor's bond.
3	Brandon & Davis, Chattanooga, Tenn.	.50	270.00	1.35	283.50	13,163.50	Recommended for acceptance. Paragraph 7, instructions to bidders, not complied with. Only one guarantor signed guaranty bond.

CINCINNATI, OHIO, FIRST DISTRICT.

[Officer: Col. Wm. T. Rossell, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for replating hull of U. S. dredge Oswego (Ohio River improvement) received in response to advertisement dated March 20, 1909, and opened at Cincinnati, Ohio, April 20, 1909, by R. R. Jones, chief assistant engineer, for Col. Wm. T. Rossell, Corps of Engineers.

	(1) Ed. J. Howard, Jeffersonville, Ind.	(2) The Johnson Iron Works (Limited), New Orleans, La.
Furnishing labor, materials, towage, etc., required, and replate hull of United States dredge Oswego.....	\$7,300.00	\$9,790.00
Price per pound for angles of longitudinal frames required to be replaced.....	.10	.....
Cutting out and replacing loose rivets .....	.25	.....

Bid No. 2 informal. Not on regular proposal form; requires dredge to be delivered to New Orleans, La., and returned by United States at its expense.

Bid No. 1 accepted.

Abstract of proposals for repair and bank protection to dikes at Evansville, Ind., received in response to advertisement dated September 3, and opened at Cincinnati, Ohio, September 18, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

Article.	Quantity.	(1) The Ohio River Contract Co., Evansville, Ind.	
		Rate.	Amount.
Earth filling.....	cubic yards.....	5,000	\$0.50
Removing and replacing stone.....	do.....	200	1.00
Stone filling.....	do.....	1,125	2.00
Total.....			4,950

Bid accepted.

Abstract of proposals for pontoon pipe line and fittings delivered at Cincinnati, Ohio, for use in connection with U. S. dredge Indiana (Ohio River improvement) received in response to public notice dated October 2, and opened at Cincinnati, Ohio, October 19, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

No.	Name and address of bidder.	Amount.
1	Henry Vogt Machine Co., Louisville, Ky.....	\$2,048.00
2	The McIlvain & Spiegel Boiler and Tank Co., Cincinnati, Ohio.....	3,990.00
3	The Springfield Boiler and Manufacturing Co., Springfield, Ill.....	^a 2,826.31

^a Also submits two alternative bids modifying specifications and reducing price \$440 and \$230, respectively.

Bid No. 1 accepted.

Abstract of proposals for installation of plumbing on U. S. dredge Indiana (Ohio River improvement) received in response to public notice dated October 8, 1908, and opened at Cincinnati, Ohio, October 23, 1908, by E. J. Carpenter, assistant engineer, for Col. Wm. T. Rossell, Corps of Engineers.

		For installation of plumbing on U. S. dredge Indiana.	
		With sectional lavatories in wash room.	With separate basins in wash room.
<i>Cincinnati, Ohio.</i>			
(1) James J. Doud.....		\$1,030	\$1,030
(2) Wm. Hillenbrand Co.....		969	969
(3) Wm. J. Gibson.....		1,240	1,255
(4) Henry Niemes.....		825	815
(5) Murdock Plumbing Co.....		1,164	1,175

Proposals rejected as excessive.

Abstract of proposals for installation of plumbing on United States dredge Indiana (Ohio River improvement) received in response to public notice dated October 24, and opened at Cincinnati, Ohio, November 2, 1908, by E. J. Carpenter, assistant engineer, for Col. Wm. T. Rossell, Corps of Engineers.

		For installation of plumbing on United States dredge Indiana.	
		With sectional lavatories in washroom.	With separate basins in washroom.
<i>Cincinnati, Ohio.</i>			
(1) Richard Murphy Plumbing Co.....		\$933	\$940
(2) Henry Niemes.....		824	814
(3) Wm. Hillenbrand Co.....		974	...
(4) James J. Doud.....		938	938
(5) Thomas Canary.....		1,140	1,120
(6) Murdock Plumbing Co.....		1,179	1,189

Bid No. 2 accepted for item marked *a*.

Abstract of proposals for installing electric-light plant on U. S. dredge Indiana (Ohio River improvement) received in response to public notice dated October 28, and opened at Cincinnati, Ohio, November 12, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

	Installing electric-light plant complete.	Alternate proposal: Installing plant complete, but using insulated wires in hold without conduits.	Additional searchlight.	Dispersion lenses fitted to search-lights (each).
<i>Cincinnati, Ohio.</i>				
(1) Richter Electric Co.....	\$1,977.00	\$1,945.00	\$265.00	\$43.00
(2) A. Becker & Son.....	2,125.00	2,110.00	176.52	86.40
(3) Geo. M. Beltzhoover.....	2,680.75	2,680.75	217.50	35.00
(4) Fairbanks, Mors & Co.....	1,903.00	1,868.00	265.00	43.00
(5) Beattie Electrical Co.....	2,141.00	200.00	35.00	35.00
(6) Sam W. Hills, Jr., Electric Co.....	1,771.00	1,746.00	200.00	30.00
(7) The Triumph Electric Co.....	1,740.95	<i>a</i> 1,715.95	200.00	<i>a</i> 30.00
(8) Swift Machinery Co.....	2,195.00	2,170.00	195.00	30.00
(9) The Chas. Barnes Co.....	1,950.00	1,875.00	200.00	30.00

Bid No. 7 accepted for items marked *a*.

Abstract of proposals for installing refrigerating and ice-making plant on U. S. dredge Indiana (Ohio River improvement) received in response to public notice dated October 30, and opened at Cincinnati, Ohio. November 13, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

		For installing refrigerating and ice-making plant, etc., with extra ice chest.	For same, without extra ice chest.
(1) Triumph Ice Machine Co., Cincinnati, Ohio		\$1,950	\$1,810
a (2) The Brunswick Refrigerating Co., New Brunswick, N. J.		1,905	.....
a (3) Creamery Package Manufacturing Co., Chicago, Ill.		1,398	1,328
a (4) Frick Co., Cincinnati, Ohio	b 1,848	1,748	

a Make modifications in specifications.

b Bid No. 4 accepted for this item.

Abstract of proposals for constructing dam of concrete, etc., at head of Browns Island, Ohio River, received in response to advertisement dated August 10, 1908, and opened at Cincinnati, Ohio, September 10, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

Article.	Designation.	Quan-	(1) Advance Sand and Con-	(2) Pennsyl-	(3) The H. E.	(4) J. C.
			struction Co., Pittsburg, Pa.	vania Contracting Co., Pittsburg, Pa.	Talbott Co., Dayton, Ohio.	Thomas, Louisa, Ky.
			Rate. Amount.	Rate. Amount.	Rate. Amount.	Rate. Amount.
Excavation:						
Ledge rock.....	Cu.yds.	165	\$3.50 \$577.50	\$4.50 \$742.50	\$3.00	\$495 \$1.00 \$165.00
Loose material.....	do.	5,400	.90 4,860.00	.75 4,050.00	1.00	5,400 1.00 5,400.00
Anchor-bolt holes.....	Lin. ft.	90	.50 45.00	.95 85.50	1.00	.90 1.00 90.00
Piles.....	No.	110	13.00 1,430.00	14.00 1,540.00	25.00	2,750 16.00 1,760.00
Iron tie rods, anchor bolts, etc.....	Lbs.	8,600	.07 602.00	.06 516.00	.05	430 .08 688.00
Stone, 9-18 cubic feet each.....	Cu.yds.	2,000	3.50 7,000.00	4.00 8,000.00	5.50	11,000 4.00 8,000
Stone, 2-3 cubic feet each.....	do.	2,100	4.00 8,400.00	3.50 7,350.00	5.50	11,550 4.00 8,400.00
Earth filling (if required).....	do.		.70	.95	.50	1.00
Concrete.....	do.	2,625	8.25 21,656.25	10.40 27,300.00	10.00	26,250 9.50 24,937.50
Extra cement.....	Bbls.	40	2.50 100.00	2.50 100.00	2.00	80 2.50 100.00
			44,670.75	49,684.00		58,045
Brand of cement.....			Any approved brand.	Edison or other standard brand.	Giant.	49,540.50

Bid No. 1 accepted.

Abstract of proposals for docking and repairing decked flat (Ohio River improvement) received in response to public notice dated March 16, 1909, and opened at Cincinnati, Ohio, March 26, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Designa- tion.	Quan- tity.	(1) Queen City Marine Railway Co., Cincinnati, Ohio.		(2) Parkersburg Dock Co., Park- ersburg, W. Va.		(3) Kanawha Dock Co., Point Pleasant, W. Va.	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Taking flat from Cincinnati, Ohio, to docks; docking; holding on docks not to exceed six days, and returning to Cincinnati.				\$80.00		\$65.00		\$120.00
Holding on docks over six days.	Days	3	\$5.00	15.00	\$2.50	7.50	\$5.00	15.00
White oak.	Feet, b. m.	2,000	60.00	120.00	50.00	100.00	45.00	90.00
Spruce pine or cypress.	do	1,000	60.00	60.00	45.00	45.00	50.00	50.00
Oakum.	Pounds	250	.15	37.50	.09	22.50	.10	25.00
Assorted boat spikes.	do	200	.05	10.00	.045	9.00	.04	8.00
Machine bolts.	do	200	.10	20.00	.05	10.00	.05	10.00
Washers.	do	25	.10	2.50	.05	1.25	.06	1.50
Red lead, mixed.	do	50	.16	8.00	.09	4.50	.10	5.00
Services:								
Carpenters.	Hours	225	.40	90.00	.375	84.38	.35	78.75
Calkers.	do	150	.40	60.00	.375	56.25	.35	52.50
Laborers.	do	200	.28	56.00	.25	50.00	.25	50.00
Foreman.	do	100	.60	60.00	.45	45.00	.45	45.00
Superintendent.	do	16			.60	9.60		
Total.				619.00		509.98		550.75

Bid No. 2 accepted.

Abstract of proposals for furnishing one decked flat (Ohio River improvement) received in response to public notice dated March 30, 1909, and opened at Cincinnati, Ohio, April 8, 1909, by Logan McKee, chief clerk, for Col. Wm. T. Rossell, Corps of Engineers.

Name and address of bidder.	Amount bid.	Remarks.
(1) Kanawha Dock Co., Point Pleasant, W. Va.	\$2,000	New boat. Length 110 feet, width 22 feet, depth at ends and amidships 7 and 6 feet, respectively; to be built of white oak and fir without center bulkhead.
(2) H. E. Jones, Spottsville, Ky.	1,600	Built 1908. Length 100 feet, width 24 feet, depth at end and amidships 6 feet 9 inches, and 6 feet, respectively. Built of white oak, red oak, yellow pine, and sycamore. No center bulkhead. Deck 12 inches below top of gunwale.
(3) Crenshaw & Hall, Spottsville, Ky.	1,500	Built December 1, 1908. Length 100 feet, width 24 feet, depth at ends and amidships 6 feet 7 inches and 6 feet, respectively; built of white oak and yellow pine. Deck not calked and 35 inches below top of gunwales. No center bulkhead.
(4) Oscar F. Barrett, Cincinnati, Ohio.	1,750	New boat. Length 100 feet, width 20 feet, depth at end and amidships 5 feet 10 inches and 5 feet, respectively; built of white oak and white pine. Deck 8 inches below top of gunwales; deck calked; center bulkhead.

Bid No. 4 accepted.

Abstract of proposals for hire of two towboats, each with two flatboats, as tenders to U. S. dredges Ohio and Indiana (Ohio River improvement) received in response to advertisement dated April 13, 1909, and opened at Cincinnati, Ohio, April 28, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Tender for dredge Ohio.	Tender for dredge Indiana.	Remarks.
	Per day.	Per day.	
(1) H. B. Hulings, Pittsburgh, Pa.	\$50	-----	Steamer M. D. Wayman. Draft 30 inches at head, 28 inches at stern. Engines 14 inches diameter of cylinders, 5-foot stroke.
(2) Flesher Towboat and Barge Line, Mount Vernon, Ind.	-----	\$59.74	Steamer I. N. Flesher. Draft 30 inches at head, 28 inches at stern. Engines 15 inches diameter of cylinders, 5-foot stroke.
(3) H. J. Mendel, Wheeling, W. Va.	50	-----	Steamer Clerimond. Draft 29 inches at head, 30 inches at stern. Engines 12 inches diameter of cylinders. 4-foot stroke.
(4) Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.	53	-----	Steamer Tide. Draft 37 inches at head, 30 inches at stern. Engines 13 inches diameter of cylinders, 5-foot stroke.
(5) Ohio Valley Towing Co., New Albany, Ind.	-----	54.85	Steamer Fulton. Draft 40 inches at head, 31 inches at stern. Engines 15 inches diameter of cylinders, 5-foot stroke.
(6) Ohio River Contract Co., Evansville, Ind.	-----	56.00	Steamer Nelle Willett. Draft 36 inches at head, 32 inches at stern. Engines 15 inches diameter of cylinders, 6-foot stroke.
			Steamer S. P. Gillett. Draft 36 inches at head, 36 inches at stern. Engines 15 inches diameter of cylinders, 5-foot stroke.

Bids Nos. 1 and 5 accepted.

Abstract of proposals for building a power house at dam No. 37, Ohio River, received in response to advertisement dated November 11, 1908, and opened at Cincinnati, Ohio, December 11, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

	Name and address of bidder.	Amount bid.	Alternate bid: Chimney built according to Custodis construction.
(1) Robert Harris, Newport, Ky.	-----	\$14,387	-----
(2) Kaps & Brehm, Cincinnati, Ohio.	-----	12,200	-----
(3) Gordon Engineering Co., Cincinnati, Ohio.	-----	13,334	\$13,459
(4) L. P. Hazen & Co., Cincinnati, Ohio.	-----	13,422	-----
(5) Wm. Miller & Son, Cincinnati, Ohio.	-----	13,739	-----
(6) M. Marcus Building Co., Cincinnati, Ohio.	-----	13,071	13,231

Bid No. 2 accepted.

Abstract of proposals for building a warehouse at Dam No. 37, Ohio River, received in response to advertisement dated October 28, 1908, and opened at Cincinnati, Ohio, November 27, 1908, by Col. Wm. T. Rossell, Corps of Engineers.

	Name and address of bidder.	Amount bid.
(1) Robert Harris, Newport, Ky.	-----	\$8,387
(2) Kaps and Brehm, Cincinnati, Ohio.	-----	7,460
(3) Gordon Engineering Co., Cincinnati, Ohio.	-----	7,723
(4) M. Marcus Building Co., Cincinnati, Ohio.	-----	6,947
(5) L. Hazen & Co., Cincinnati, Ohio.	-----	7,850
(6) Wm. Miller & Son, Cincinnati, Ohio.	-----	7,245
(7) Volney E. Taylor, Huntington, W. Va.	-----	10,000

Bid No. 4 accepted.

Abstract of proposals for furnishing and delivering at Fernbank, Ohio, for use at Dam No. 37, Ohio River, 4,000 barrels American Portland cement (subject to increase or deduction of 50 per cent) received in response to public notice dated October 16, and opened at Cincinnati, Ohio, October 23, 1906, by R. R. Jones, chief assistant engineer, for Col. Wm. T. Rossell, Corps of Engineers.

No.	Name and address of bidder.	Brand.	Cement delivered in cloth or canvas sacks, 4 sacks to barrel.
1	Alpha Portland Cement Co., Easton, Pa.	Alpha.	\$1.3864
2	The Atlas Portland Cement Co., New York, N. Y.	Atlas.	1.4364
3	Lehigh Portland Cement Co., Allentown, Pa.	Lehigh.	1.37

Bids Nos. 1 and 3 allow rebate of $7\frac{1}{2}$ cents each for empty sacks returned to their works; bid No. 2, $7\frac{1}{2}$ cents each to point of delivery.
Bid No. 3 accepted.

Abstract of proposals for furnishing 14,000 barrels of American Portland cement at Fernbank, Ohio, for use in construction of Dam No. 37, Ohio River, received in response to advertisement dated May 22, 1909, and opened at Cincinnati, Ohio, June 21, 1909, by R. R. Jones, chief assistant engineer, for Col. Wm. T. Rossell, Corps of Engineers.

No.	Name and address of bidder.	Brand.	Weight per barrel.	Price in cloth sacks.
			Pounds.	Per barrel.
1	Superior Portland Cement Co., Cincinnati, Ohio.	Superior.	375	\$1.30
2	Universal Portland Cement Co., Pittsburg, Pa.	Universal.	376	1.49
3	Kosmos Portland Cement Co., Louisville, Ky.	Kosmos.	380	1.23
4	The Atlas Portland Cement Co., New York, N. Y.	Atlas.	380	1.4364
5	Alma Cement Co., Wellston, Ohio.	Alma.	376	1.22
6	The Ironton Portland Cement Co., Ironton, Ohio.	Limestone.	375	1.23
7	Lehigh Portland Cement Co., Cleveland, Ohio.	Lehigh.	375	1.18

No recommendation of award made pending tests of samples of cement furnished.

Abstract of proposals for furnishing and installing two new chimneys on the U. S. snag boat E. A. Woodruff (Ohio River improvement) received in response to public notice dated February 11, and opened at Cincinnati, Ohio, February 23, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Price bid.
(1) The Jos. Honhorst Co., Cincinnati, Ohio.	\$585
(2) Kennen Sheet Iron Works, Cincinnati, Ohio.	635
(3) Littleford Bros., Cincinnati, Ohio.	394

Bid No. 3 accepted.

Abstract of proposals for furnishing and installing cast-iron suction pipe, etc., on U. S. snag boat E. A. Woodruff (Ohio River improvement) received in response to public notice dated February 11, and opened at Cincinnati, Ohio, February 23, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Price bid.
(1) The Wm. T. Johnston Co., Cincinnati, Ohio.	\$197.25
(2) The Chas. Barnes Co., Cincinnati, Ohio.	160.00
(3) W. H. Simmons & Co., Cincinnati, Ohio.	195.75

Bid No. 2 accepted.

Abstract of proposals for cold-storage room on U. S. snag boat E. A. Woodruff (Ohio River improvement) received in response to public notice dated February 24, and opened at Cincinnati, Ohio, March 8, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Amount bid.
(1) Heine & Beck, Cincinnati, Ohio.....	\$1,088.80
(2) The Cincinnati Butchers' Supply Co., Cincinnati, Ohio.....	700.00
(3) The Schmidt Co., Cincinnati, Ohio.....	782.65

Bid No. 2 accepted.

Abstract of proposals for repairs to iron main deck of U. S. snag boat E. A. Woodruff (Ohio River improvement) received in response to public notice dated February 11, and opened at Cincinnati, Ohio, February 23, 1909, by Col. Wm. T. Rossell, Corps of Engineers.

	Price bid.	Extra material, per pound.	Cents.	12
(1) Littleford Bros., Cincinnati, Ohio.....	\$418			
(2) Union Iron Works Co., Cincinnati, Ohio.....	580			

Bid No. 1 accepted.

CINCINNATI (OHIO) SECOND DISTRICT.

[Officer: Lieut. Col. J. G. Warren, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for constructing dam, guide walls, and dwellings at Lock No. 1, Tug Fork of Big Sandy River, at Salt peter, W. Va., received in response to advertisement dated June 2, 1908, and opened July 2, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Classification.	Approximate quantities.	(1) The Ohio River Contract Co., Evansville, Ind.		(2) Mason & Han- ger Co., Rich- mond, Ky.		(3) Miller Bros., North Vernon, Ind.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.
Earth excavation.cubic yards..	37,000	\$0.60	\$22,200	\$0.55	\$20,350	\$0.50	\$18,500
Rock excavation.....do.....	50	2.00	100	3.00	150	2.00	100
Embankment.....do.....	8,800	.50	4,400	.40	3,520	.40	3,520
Concrete.....do.....	8,300	5.00	41,500	6.75	56,025	5.50	45,650
Piling, round.....linear feet.	3,500	.40	1,400	.60	2,100	.50	1,750
Piling, sheet.....do.....	1,000	.60	600	.35	350	.60	600
Timber.....M feet b. m.	28,000	60.00	1,680	80.00	2,240	60.00	1,680
Lumber.....do.....	26,000	80.00	2,080	100.00	2,600	100.00	2,600
Iron and steel.....pounds.	210,000	.07	14,700	.07	14,700	.087	18,270
Cement.....barrels.	9,000	1.50	13,500	1.80	16,200	1.50	13,500
Dwellings.....	2	2,500.00	5,000	2,500.00	5,000	2,700	5,400
Outbuildings.....	2	200.00	400	200.00	400	200.00	400
Cisterns.....	2	100.00	200	100.00	200	100.00	200
Office.....	1	300.00	300	275.00	275	300.00	300
Drains.....linear feet.	400	.40	160	.30	120	.50	200
Skilled labor.....hours.	1,000	.50	500	.50	500	.60	600
Unskilled labor.....do.....	2,000	.25	500	.30	600	.25	500
Total.....			109,220		125,330		113,770

Abstract of proposals for constructing dam, guide walls, and dwellings at Lock No, 1, Tug Fork of Big Sandy River, at Salt peter, W. Va., etc.—Continued.

Classification.	Approximate quantities.	(4) Advance Sand and Construction Co. (Incorporated), Grafton, Pa.		(5) W. W. Lindsay & Co., Philadelphia, Pa.		(6) The H. E. Talbott Co., Dayton, Ohio.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.
Earth excavation cubic yards.	37,000	\$0.60	\$22,200	\$0.70	\$25,900	\$0.50	\$18,500
Rock excavation do.	50	3.00	150	3.00	150	3.00	150
Embankment do.	8,800	.50	4,400	.50	4,400	.50	4,400
Concrete do.	8,300	6.00	49,800	5.90	48,970	8.40	69,720
Piling, round linear feet.	3,500	.65	2,275	.50	1,750	.50	1,750
Piling, sheet do.	1,000	.90	900	.60	600	1.00	1,000
Timber M feet b. m.	28,000	70.00	1,960	50.00	1,400	50.00	1,400
Lumber do.	26,000	95.00	2,470	50.00	1,300	100.00	2,600
Iron and steel pounds.	210,000	.08	16,800	.06	12,600	.095	19,950
Cement barrels.	9,000	2.00	18,000	1.50	13,500	1.75	15,750
Dwellings.	2	2,300.00	4,600	4,500.00	9,000	2,500.00	5,000
Outbuildings.	2	200.00	400	500.00	1,000	100.00	200
Cisterns.	2	150.00	300	150.00	300	100.00	200
Office.	1	350.00	350	700.00	700	200.00	200
Drains linear feet.	400	.60	240	.70	280	.50	200
Skilled labor hours.	1,000	.75	750	.75	750	.75	750
Unskilled labor do.	2,000	.25	500	.25	500	.25	500
Total.			126,095		123,100		142,270

Abstract of proposals for furnishing a gasoline boat, of the tunnel type, for use on the Big Sandy River, W. Va. and Ky., received in response to circular advertisement dated September 15, and opened October 5, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation. Indefinite—Big Sandy River, W. Va. and Ky.]

Article.	(1) Pioneer Boat and Pattern Co., Bay City, Mich.	(2) Racine Boat Manufacturing Co., Muskegon, Mich.	(3) L. P. Anschutz, Chas. Anschutz, Dayton, Ky.
One gasoline boat, of the tunnel type, of the following dimensions: Length, 35 feet over all; beam, 8 feet 6 inches over all; draft, 14 inches.	\$1,975	\$1,950	\$1,908

Bid No. 1 accepted, and emergency contract entered into.

Abstract of proposals for constructing one frame dwelling, one frame outbuilding, and one cistern at Lock No. 2, Big Sandy River, West Virginia and Kentucky, received in response to circular advertisement dated September 28, 1908, and opened October 19, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation. Indefinite—Big Sandy River, West Virginia and Kentucky.]

Classification.	Approximate quantities.	(1) J. R. Simpson, Louisa, Ky.	
		Unit.	Total.
Excavation.	200 cubic yards...	\$0.50	\$140
Concrete.	100 cubic yards...	8.50	850
Drains.	200 linear feet...	.50	100
Dwelling.	1.		2,552
Outbuilding.	1.		250
Cistern.	1.		90
Total.			3,982

Rejected.

Abstract of proposals for constructing one frame dwelling at Lock No. 2, Big Sandy River, West Virginia and Kentucky, received in response to advertisement dated January 22, 1909, and opened February 10, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Big Sandy River, West Virginia and Kentucky.]

Classification.	(1) Nathaniel Baker, Ashland, Ky.	(2) Augustus Snyder, Louisa, Ky. ^a	(3) J. A. Kilkenny, Catlettsburg, Ky.	(4) W. M. Justice, H. E. Evans, Louisa, Ky.	
	Amount.	Amount.	Amount.	Price.	Amount.
First proposition:					
Excavation, 150 cubic yards.....				\$0.75	\$112.50
Concrete, 50 cubic yards.....				8.00	400.00
Drains, 350 linear feet.....				.50	175.00
Dwelling, lump sum.....					1,699.00
Total.					2,386.50
Second proposition:					
Dwelling above foundation only, lump sum.....	\$2,100.00		\$1,800.00		1,699.00

Classification.	(5) J. R. Simpson, Gallup, Ky.		(6) Hull, Johnston & Millard, War, W. Va.		(7) John R. Steele, North Bend, Ohio.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
First proposition:						
Excavation, 150 cubic yards.....	\$0.75	\$112.50	\$0.40	\$60.00	\$0.30	\$45.00
Concrete, 50 cubic yards.....	7.50	375.00	8.00	400.00	9.00	450.00
Drains, 350 linear feet.....	.40	140.00			.30	105.00
Dwelling, lump sum.....		2,100.00		2,400.00		2,891.00
Total.		2,727.50		2,860.00		3,491.00
Second proposition:						
Dwelling above foundation only, lump sum.....		2,100.00		2,400.00		2,891.00

^a Accepted, and emergency contract entered into.

^b Lump sum.

Abstract of proposals for constructing, in concrete, conduit at Dam No. 7, Muskingum River, Ohio, received in response to advertisement dated July 30, 1908, and opened August 14, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite, as applied to Muskingum River, Ohio.]

Classification.	Approximate quantities.	(1) C. W. Hughes, Malta, Ohio.		(2) S. W. Hoffman, Zanesville, Ohio. ^a		(3) Clifton Bros., Zanesville, Ohio.		(4) Geo. W. Brokaw, McConnells-ville, Ohio.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.	Unit.	Total.
Excavation.....	1,200 cubic yards.....	\$1.25	\$1,500	\$0.50	\$600	\$0.80	\$960	\$0.65	\$780
Filling.....	1,500 cubic yards.....	.25	375	.50	750	.50	750	.45	675
Lumber.....	7,000 feet B. M.	34.00	238	65.00	455	55.00	385	60.00	420
Concrete.....	260 cubic yards.....	5.90	1,534	8.20	2,132	8.95	2,327	16.00	4,160
Total.			3,647		3,937		4,423		6,035

^a Accepted.

Abstract of proposals for constructing concrete guide and guard walls and revetments at Locks 2, 3, 5, and 10, and replacing guide piles at Lock No. 3, Muskingum River, Ohio, received in response to circular advertisement dated August 28, 1908, and opened September 8, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Muskingum River.]

Classification.	Approximate quantities.	(1) S. W. Hoffman, Zanesville, Ohio.		(2) Clifton Bros., Zanesville, Ohio. ^a	
		Unit.	Total.	Unit.	Total.
Lock No. 2:					
Excavation.....	370 cubic yards.....	\$0.80	\$296.00	\$0.80	\$296.00
Concrete.....	104 cubic yards.....	11.50	1,196.00	9.80	1,019.20
Piling.....	81 linear feet.....	1.00	81.00	.60	48.60
Total.....			1,573.00		1,363.80
Lock No. 3:					
Excavation.....	282 cubic yards.....	.75	211.50	.80	225.60
Filling.....	210 cubic yards.....	.85	178.50	.60	126.00
Concrete.....	50 cubic yards.....	11.50	575.00	10.20	510.00
Piling.....	532 linear feet.....	.75	399.00	.60	319.20
Total.....			1,364.00		1,180.80
Lock No. 5:					
Excavation.....	190 cubic yards.....	.75	142.50	.80	152.00
Filling.....	120 cubic yards.....	.80	96.00	.40	48.00
Concrete.....	66 cubic yards.....	14.50	957.00	9.00	594.00
Total.....			1,195.50		794.00
Lock No. 10:					
Excavation.....	250 cubic yards.....	.60	150.00	.60	150.00
Filling.....	430 cubic yards.....	.50	215.00	.40	172.00
Concrete.....	114 cubic yards.....	9.45	1,077.30	9.50	1,083.00
Total.....			1,442.30		1,405.00
Grand total.....			5,574.80		4,743.60

^a Accepted.

Abstract of proposals for reconstructing storehouse and waiting room, combined, at Lock No. 3, Muskingum River, received in response to advertisement dated November 2, 1908, and opened November 16, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite.]

Item.	(1) Rechsteiner Bros., Lowell, Ohio.
For reconstructing storehouse and waiting room, combined, at Lock No. 3, Muskingum, River.....	\$683.60

Rejected as being excessive.

Abstract of proposals for repairing about 700 feet of canal embankment at Lock No. 7 (McConnelsville, Ohio), Muskingum River, received in response to circular advertisement dated April 27, 1909, and opened May 10, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Muskingum River.]

Classification.	Approximate quantities.	(1) C. W. Hughes, McConnelsville, Ohio.		(2) Clifton Bros., Zanesville, Ohio. ^a		(3) S. W. Hoffman, Zanesville, Ohio.		(4) Geo. J. Bock & Son, Coshocton, Ohio.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.	Unit.	Total.
Piling.....	3,495 linear feet.....	\$0.43	\$1,502.85	\$0.34	\$1,188.30	\$0.44	\$1,537.80	\$0.55	\$1,922.25
Timber.....	3,500 M. feet b. m.....	27.00	94.50	50.00	175.00	49.00	171.50	30.00	105.00
Iron and steel.....	1,100 pounds.....	.07	77.00	.06	66.00	.0625	68.75	.05	55.00
Embankment.....	500 cubic yards.....	.42	210.00	.50	250.00	.85	425.00	.50	250.00
Total.....			1,884.35		1,679.30		2,203.05		2,332.25

^a Accepted and emergency contract entered into under date of May 13, 1909.

Abstract of proposals for furnishing about 2,400 barrels American Portland cement at High Bridge, Ky., received in response to circular advertisement dated July 3, 1908, and opened July 14, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Name and address of bidder.	Brand.	2,400 barrels American Portland cement f. o. b. High Bridge, Ky.	
		Per barrel.	Total.
(1) The Ironton Portland Cement Co., Ironton, Ohio.....	Limestone.....	\$1.61	\$3,864
(2) Alma Cement Co., Wellston, Ohio.....	Alma.....	1.57	3,768
(3) Frank G. Stagg, Frankfort, Ky.....	Lehigh (Mitchell, Ind.).....	1.69	4,056
(4) Virginia Portland Cement Co., New York, N. Y.....	Old Dominion.....	1.50	3,600
(5) The Atlas Portland Cement Co., New York, N. Y.....	Atlas.....	1.77	4,248
(6) Alpha Portland Cement Co., Easton, Pa.....	Alpha.....	1.67	4,008

Abstract of proposals for furnishing about 1,900 barrels American Portland cement at Frankfort, Ky., received in response to circular advertisement dated July 3, 1908, and opened July 14, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Name and address of bidder.	Brand.	1,900 barrels American Portland cement f. o. b. Frankfort, Ky.	
		Per barrel.	Total.
(1) The Ironton Portland Cement Co., Ironton, Ohio.....	Limestone.....	\$1.67	\$3,173
(2) Alma Cement Co., Wellston, Ohio.....	Alma.....	1.53	2,907
(3) Frank G. Stagg, Frankfort, Ky.....	Lehigh (Mitchell, Ind.).....	1.58	3,002
(4) Virginia Portland Cement Co., New York, N. Y.....	Old Dominion.....	1.50	2,850
(5) The Atlas Portland Cement Co., New York, N. Y.....	Atlas.....	1.73	3,287
(6) Alpha Portland Cement Co., Easton, Pa.....	Alpha.....	1.74	3,306

Abstract of proposals for hire of towboat to serve as tender for dredges on Kentucky River, Kentucky, received in response to circular advertisement dated August 1, 1908, and opened August 7, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Kentucky River, Kentucky.]

Name and address of bidder.		For hire of tow boat with crew to serve as tender for dredges for a period of about 90 days.
		Per day.
(1) S. J. Preston & Son, Salvisa, Ky.		\$17
(2) Moffett-Bowman Lumber Co., Madison, Ind.		21
(3) Kentucky River Poplar Co., Lexington, Ky. ^a		20

^aAccepted.

Abstract of proposals for rental of one barge for use on the Kentucky River, Kentucky, in transporting materials for repairs to completed works, received in response to circular advertisement dated August 1, 1908, and opened August 7, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite, as applied to Kentucky River, Kentucky.]

Name and address of bidder.		Rental of one deck barge, having a capacity of not less than 125 cubic yards.
		Per day.
(1) Ohio River Stone Co., Newport, Ky.		\$10
(2) Kenney Brothers, Frankfort, Ky. ^a		3

^aAccepted.

Abstract of proposals for building a wooden-hull towboat, with snagging appliances, for use on the Kentucky River, Ky., received in response to advertisement dated August 20, 1908, and opened September 9, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Kentucky River, Ky.]

Item.	(1) Howard Ship Yards Co., Jeffersonville, Ind.	(2) J. M. Hammitt, Marietta, Ohio.
For constructing towboat, with snagging appliances:		
If of new machinery and equipment throughout.	\$30,000	
If of certain parts of machinery taken from U. S. steamer General O. M. Poe.	^a \$24,600	\$32,575
Bidder proposes to purchase U. S. steamer General O. M. Poe, exclusive of furniture and furnishings, for the sum of.	\$1,000	\$400
Number of days from date of approval of contract in which the bidder proposes to make delivery of boat at Frankfort, Ky.	150	150

^aAccepted.

Abstract of proposal for hire of towboat to serve as tender for Kentucky River dredge, received in response to circular advertisement dated September 28, and opened October 12, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Kentucky River, Ky.]

Name and address of bidder.		For hire of towboat for such time as her services may be required.
S. J. Preston & Son, Salvisa, Ky.		Per day. \$17

Rejected.

Abstract of proposals for constructing one frame dwelling, one frame outbuilding, and one cistern at Lock No. 11, Kentucky River, Ky., received in response to circular advertisement dated September 28, 1908, and opened October 19, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite—Kentucky River, Ky.]

Classification.	Approximate quantities.	(1) E. A. Bogie, College Hill, Ky.	(2) Hardin & Son, Richmond, Ky.	(3) Nicholasville Lumber Co., Nicholasville, Ky.	(4) W. P. Eckley, Winchester, Ky.
Excavation.....	200 cubic yards.....	\$0.75	\$150.00	\$0.90	\$180.00
Concrete.....	100 cubic yards.....	9.00	900.00	9.60	960.00
Drains.....	200 linear feet.....	.50	100.00	.18	36.00
Dwelling.....	One.....		2,200.00		3,181.75
Outbuilding.....	One.....		300.00		325.00
Cistern.....	One.....		150.00		138.00
Total.....			3,800.00		4,800.75
					3,873.99
					5,740.00

All bids rejected.

Abstract of proposals for the purchase of U. S. dredge No. 2, Kentucky River, Ky., received in response to advertisement dated October 12, 1908, and opened October 30, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation for operating and care of canals and other works of navigation. Indefinite.]

No.	Name and address of bidder.	Purchase of U. S. dredge No. 2, operating on Kentucky River, Ky., exclusive of her furniture and furnishings.
1	Oscar F. Barrett, Cincinnati, Ohio.....	\$415.00
2	J. D. Griffin, Frankfort, Ky.....	255.50
a 3	Ohio River Contract Co., Evansville, Ind.....	750.00

a Accepted.

Abstract of proposals for constructing three frame dwellings and appurtenances, one office building, fencing, etc., at Lock No. 13, Kentucky River, Kentucky, received in response to advertisement dated October 26, 1908, and opened November 16, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Classification.	Approximate quantities.	(1) W. T. V. Cramer, Cincinnati, Ohio.		(2) N. A. Powell, Winchester, Ky.	
		Unit.	Total.	Unit.	Total.
Excavation.....	800 cubic yards.....	\$0.68	\$544.00	\$0.60	\$480.00
Concrete.....	250 cubic yards.....	10.90	2,725.00	14.00	3,500.00
Drains.....	500 linear feet.....	.21 $\frac{1}{2}$	107.50	.23	115.00
One dwelling.....	One.....	3,015.00	3,015.00	2,912.00	2,912.00
Two dwellings.....	Two.....	2,780.00	5,560.00	2,550.00	5,100.00
Outbuildings.....	Three.....	335.00	1,005.00	365.00	1,095.00
Office building.....	One.....	418.00	418.00	390.00	390.00
Cisterns.....	Three.....	127.50	382.50	145.00	435.00
Well.....	80 linear feet.....	3.50	280.00	4.00	320.00
Fencing.....	1,200 linear feet.....	.19 $\frac{1}{2}$	234.00	.10	120.00
Total.....			14,271.00		14,467.00

All bids rejected.

Abstract of proposals for constructing three frame dwellings and appurtenances, one office building, fencing, etc., at Lock No. 13, Kentucky River, Kentucky, received in response to advertisement dated October 26, 1908, and opened November 16, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Improving Kentucky River, Kentucky.]

Classification.	Approximate quantities.	(1) W. T. V. Cramer, Cincinnati, Ohio.		(2) N. A. Powell, Winchester, Ky.	
		Unit.	Total.	Unit.	Total.
Excavation.....	800 cubic yards.....	\$0.68	\$544.00	\$0.60	\$480.00
Concrete.....	250 cubic yards.....	10.90	2,725.00	14.00	3,500.00
Drains.....	500 linear feet.....	.215	107.50	.23	115.00
One dwelling.....	1.....		3,015.00		2,912.00
Two dwellings.....	2.....	2,780.00	5,560.00	2,550.00	5,100.00
Outbuildings.....	3.....	335.00	1,005.00	365.00	1,095.00
Office building.....	1.....	418.00	418.00	390.00	390.00
Cisterns.....	3.....	127.50	382.50	145.00	435.00
Well.....	80 linear feet.....	3.50	280.00	4.00	320.00
Fencing.....	1,200 linear feet.....	.195	234.00	.10	120.00
Total.....			14,271.00		14,467.00

All bids rejected as being excessive.

Abstract of proposals for repairing floating plant, consisting of U. S. dredge No. 1; U. S. derrick boat No. 2, and three decked barges, in use on the Kentucky River, Kentucky, received in response to circular advertisement dated December 21, 1908, and opened December 31, 1908, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation. Indefinite—Kentucky River, Kentucky.]

Items.	(1) Howard Ship Yards Co., Jeffer- sonville, Ind.
Use of marine ways:	
For hauling out dredge.....	\$65.00
For each lay day.....	3.00
For hauling out derrick boat.....	50.00
For each lay day.....	3.00
For hauling out barges.....	each. 30.00
For each lay day.....	2.00
Labor:	
Foreman in charge.....	per day 5.00
Ship carpenters.....	do 3.00
Calkers.....	do 3.50
Machinists.....	do 4.50
Painters.....	do 2.75
Laborers.....	do 2.25
Blacksmith.....	do 3.50
Blacksmith helper.....	do 2.50
Materials:	
Longleaf yellow pine, sawed to dimensions.....	per M feet b. m. 45.00
White oak, sawed to dimensions.....	do 50.00
Iron work (to include drift and screw bolts, boat spikes, etc.).....	per pound .06
Oakum, "Best".....	do .14

Accepted.

Location of shipyard, Madison, Ind.

Abstract of proposals for constructing one frame dwelling, on concrete foundation; one frame outbuilding; one cistern, and drains at Lock No. 11, Kentucky River, Kentucky, received in response to circular advertisement dated February 1, 1909, and opened February 20, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation. Indefinite, as applied to Kentucky River, Kentucky.]

Classification.	Approximate quantities.	(1) E. A. Bogie, Col- lege Hill, Ky.		(2) N. A. Powell, Winches- ter, Ky.
		Unit.	Total.	Total.
<i>First alternative—Construct whole work.</i>				
Excavation.....	200 cubic yards.....	\$0.60	\$120	.....
Concrete.....	100 cubic yards.....	9.00	900	.....
Drains.....	200 linear feet .....	.75	150	.....
Dwelling.....	1.....		2,100	.....
Outbuilding.....	1.....		350	\$400
Cistern.....	1.....		150	.....
Grand total.....			3,770	.....
<i>Second alternative—Dwelling, complete.</i>				
Excavation.....	100 cubic yards.....	.60	60	.....
Concrete.....	90 cubic yards.....	9.00	810	.....
Dwelling.....	1.....		2,150	.....
<i>Third alternative.</i>				
Dwelling, complete, above foundation only.....	1.....		2,200	2,750

Bid No. 1 (third alternative) accepted, and emergency contract entered into.

Abstract of proposals for building a wooden-hull towboat, for use on the Kentucky River, Ky., received in response to advertisement dated February 15, 1909, and opened March 4, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Items.	(1) Howard Ship Yards Co., Jeffer- sonville, Ind.	(2) M. A. Sweeney Ship Yard & Foundry Co., Jeffersonville, Ind.	(3) The Charles Barnes Co., Cincinnati, Ohio.
Machinery with steam steering gear.....	\$7,100	\$1,000	\$11,500
Machinery without steam steering gear.....	6,250	6,500	11,000
Hull.....	8,135	7,400	9,000
Electrical installation.....	1,250	1,450	1,300
Plumbing.....	350	150	350
General outfit.....	850	915	200
Total cost of boat with steam steering gear.....	17,685	16,915	22,350
Total cost of boat without steam steering gear.....	16,835	16,415	21,850

Abstract of proposals for constructing Lock No. 13, Kentucky River, 3 dwellings, 3 out-houses, 3 cisterns, and 1 office building, near Willow, Ky., received in response to advertisement dated March 23, 1909, and opened April 23, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

Classification and approximate quantities.	(1) The Ohio River Contract Co., Evansville, Ind.		(2) J. C. Thomas, Louisa, Ky.		(3) The H. E. Tal- bott Co., Dayton, Ohio.	
	Unit.	Total.	Unit.	Total.	Unit.	Total.
86,000 cubic yards earth excavation.....	\$0.40	\$34,400	\$0.50	\$43,000	\$0.55	\$47,300.00
150 cubic yards rock excavation.....	1.00	150	4.50	675	2.50	375.00
47,000 cubic yards embankment.....	.45	21,150	.30	14,100	.40	18,800.00
1,000 cubic yards ballast.....	3.50	3,500	4.50	4,500	1.25	1,250.00
27,000 cubic yards concrete.....	4.50	121,500	4.50	121,500	6.00	162,000.00
2,200 cubic yards paving.....	7.50	16,500	7.00	15,400	7.00	15,400.00
100 tons derrick stone.....	3.00	300	3.00	300	2.50	250.00
100 square yards riprap.....	3.00	300	3.00	300	2.50	250.00
29,000 barrels cement.....	1.85	53,650	1.75	50,750	1.42	41,180.00
9,000 feet b. m. timber.....	80.00	720	200.00	1,800	100.00	900.00
65,000 feet b. m. shoring.....	60.00	3,900	100.00	6,500	60.00	3,900.00
300,000 pounds iron and steel.....	.065	19,500	.06	18,000	.05	15,000.00
45 linear-foot gauges.....	2.00	90	5.00	225	2.50	112.50
700 linear-foot drains.....	.35	245	1.00	700	.20	140.00
1 dwelling (2-story).....		3,800		4,000		2,984.85
2 dwellings (1-story).....	3,350.00	6,700	4,000.00	8,000	2,752.20	5,504.40
3 outbuildings.....	1,075.50	3,225	333.33	1,000	331.65	994.95
1 office building.....	475.00	475	500.00	500		413.82
3 cisterns.....	150.00	450	200.00	600	126.22	378.66
80 linear-foot well.....	2.00	160	5.00	400	3.46	276.80
1,200 linear-foot fencing.....	.25	300	.50	600	.15	180.00
Total.....		291,015		292,850		317,590.98

Abstract of proposals for constructing Lock No. 13, Kentucky River, 3 dwellings, 3 out-houses, 3 cisterns, and 1 office building, near Willow, Ky., etc.—Continued.

Classification and approximate quantities.	(4) E. G. Nave Bros. Co., Portsmouth, Ohio.		(5) Sheridan-Kirk Contract Co., Cincinnati, Ohio.		(6) Bates & Rogers Construction Co., Chicago, Ill.	
	Unit.	Total.	Unit.	Total.	Unit.	Total.
86,000 cubic yards earth excavation.....	\$0.60	\$51,600	\$0.50	\$43,000	\$0.60	\$51,600
150 cubic yards rock excavation.....	2.00	300	4.00	600	2.50	375
47,000 cubic yards embankment.....	.40	18,800	.40	18,800	.45	21,150
1,000 cubic yards ballast.....	1.50	1,500	2.50	2,500	1.60	1,600
27,000 cubic yards concrete.....	5.25	141,750	4.30	116,100	5.25	141,750
2,200 cubic yards paving.....	3.50	7,700	6.00	13,200	8.00	17,600
100 tons derrick stone.....	3.50	350	2.00	200	1.50	150
100 square yards riprap.....	2.50	250	3.00	300	1.25	125
29,000 barrels cement.....	1.90	55,100	1.90	55,100	2.25	65,250
9,000 feet b. m. timber.....	100.00	900	100.00	900	100.00	900
65,000 feet b. m. shoring.....	30.00	1,950	30.00	1,950	100.00	6,500
300,000 pounds iron and steel.....	.07	21,000	.06	18,000	.10	30,000
45 linear-foot gauges.....	1.00	45	2.00	90	2.00	90
700 linear-foot drains.....	.50	350	.40	280	.50	350
1 dwelling (2-story).....		3,800		3,830		3,500
2 dwellings (1-story).....	3,300.00	6,600	3,180.00	6,360	3,200.00	6,400
3 outbuildings.....	450.00	1,350	180.00	540	475.00	1,425
1 office building.....		450		500		700
3 cisterns.....	150.00	450	135.00	405	270.00	810
80 linear-foot well.....	1.85	148	3.00	240	3.00	240
1,200 linear-foot fencing.....	.20	240	.375	450	.50	600
Total.....		314,633		283,345		351,115

Classification and approximate quantities.	(7) Mason & Hanger Co., Richmond, Ky.		(8) The Hollerbach & May Contract Co., Evansville, Ind.		(9) Smith Towles & Co., Roderfield, W. Va.	
	Unit.	Total.	Unit.	Total.	Unit.	Total.
86,000 cubic yards earth excavation.....	\$0.40	\$34,400			\$0.44	\$37,840
150 cubic yards rock excavation.....	3.00	450	\$1.00	\$150	1.50	225
47,000 cubic yards embankment.....	.27	12,690			.30	14,100
1,000 cubic yards ballast.....	2.00	2,000	2.00	2,000	1.50	1,500
27,000 cubic yards concrete.....	5.15	139,050	7.00	189,000	4.20	113,400
2,200 cubic yards paving.....	6.00	13,200	7.00	15,400	6.00	13,200
100 tons derrick stone.....	3.00	300	3.00	300	1.50	150
100 square yards riprap.....	2.00	200	3.00	300	1.75	175
29,000 barrels cement.....	1.60	46,400	2.00	58,000	2.10	60,900
9,000 feet b. m. timber.....	100.00	900	100.00	900	90.00	810
65,000 feet b. m. shoring.....	90.00	5,850			50.00	3,250
300,000 pounds iron and steel.....	.06	18,000	.05	15,000	.06	18,000
45 linear-foot gauges.....	1.00	45	3.00	135	1.00	45
700 linear-foot drains.....	1.00	700	.60	420	.75	525
1 dwelling (2-story).....		3,000		4,000		2,000
2 dwellings (1-story).....	2,500.00	5,000	3,750.00	7,500	1,500.00	3,000
3 outbuildings.....	300.00	900	500.00	1,500	500.00	1,500
1 office building.....		350		1,000		800
3 cisterns.....	100.00	300	150.00	450	100.00	300
80 linear-foot well.....	2.50	200	3.00	240	2.00	160
1,200 linear-foot fencing.....	.25	300	.40	480	.90	1,080
Total.....		284,235		296,775		272,960

Abstract of proposals for constructing and delivering steel lower lock-gates for Lock No. 1, Kentucky River, Ky., received in response to circular advertisement dated April 15, 1909, and opened April 28, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite, as applied to Kentucky River, Ky.]

No.	Bidder's name and address.	Date of delivery.	For constructing and delivering at Frankfort, Ky., steel lower lock gates for Lock No. 1, Kentucky River. Estimated weight, 70,000 pounds.	
			Per pound.	Total.
1	Penn Bridge Co., Beaver Falls, Pa.	August 1, 1909....	\$0.0511	\$3,577
2	Lawrence D. Weaning, Cleveland, Ohio.	...do....	.056	3,920
3	Bracket Bridge Co., Cincinnati, Ohio	August 15, 1909....	.052	3,640

Bid No. 1 accepted and emergency contract entered into May 6, 1909.

Abstract of proposals for furnishing and delivering at Locks Nos. 1 and 4, Kentucky River, gravel for repair work, received in response to circular advertisement dated April 15, 1909, and opened April 28, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite, as applied to Kentucky River, Ky.]

Item.	(1) Kentucky and Ohio Transportation Co., Carrollton, Ky.		(2) Carrollton Sand and Gravel Co., Carrollton, Ky.	
	Unit.	Total.	Unit.	Total.
For 1,300 cubic yards gravel, delivered at Lock No. 1, Kentucky River, Ky.	\$1.23	\$1,599	\$1.35	\$1,755
For 1,500 cubic yards gravel, delivered at Lock No. 4, Kentucky River, Ky.	1.42	2,130	1.62	2,430
Total.....		3,729		4,185

Bid No. 1 accepted and emergency contract entered into May 5, 1909.

Abstract of proposals for furnishing and delivering at Locks Nos. 1 and 4, Kentucky River, sand for repair work, received in response to circular advertisement dated April 15, 1909, and opened April 28, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite, as applied to Kentucky River, Ky.]

Item.	(1) Kentucky and Ohio Transportation Co., Carrollton, Ky.		(2) Carrollton Sand and Gravel Co., Carrollton, Ky.	
	Unit.	Total.	Unit.	Total.
For 500 cubic yards sand, delivered at Lock No. 1, Kentucky River, Ky.	\$0.98	\$490	\$1.05	\$525
For 1,600 cubic yards sand, delivered at Lock No. 4, Kentucky River, Ky.	.98	1,568	1.10	1,760
Total.....		2,058		2,285

Bid No. 1 accepted and emergency contract entered into May 5, 1909.

Abstract of proposals for furnishing, and delivering at Frankfort, Ky., about 343,598 feet b. m., longleaf yellow pine, for repairs on Kentucky River, Ky., received in response to circular advertisement dated April 15, 1909, and opened April 28, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite, as applied to Kentucky River, Ky.]

No.	Bidder's name and address.	Date of delivery.	For furnishing and delivering at Frankfort, Ky., about 343,598 feet b. m., longleaf yellow pine timber, per M. feet b. m.	
			Unit.	Total.
1	Chicago Lumber and Coal Co., St. Louis, Mo.	July 15, 1909		\$8,311.26
2	Marsh & Bingham Co., Chicago, Ill.	July 1, 1909		9,537.71
3	Meeds Lumber Co., Hattiesburg, Miss.	do	\$27.50	9,448.94
4	Hammond & Co., Frankfort, Ky.	90 days	38.40	13,194.16
5	T. J. Congleton & Bro., Frankfort, Ky.	July 1, 1909	27.00	9,277.14
6	Capital Lumber and Manufacturing Co., Frankfort, Ky.	June 12, 1909	25.30	8,693.03
7	J. L. Philips & Co., Thomasville, Ga.	July 1, 1909	26.00	8,933.54

Bid No. 6 accepted and emergency contract entered into May 6, 1909.

Time of delivery being an element of importance, the award to No. 6 was based on this feature of the bid.

Abstract of proposals for furnishing approximately 5,000 barrels American Portland cement, delivered f. o. b. cars, Frankfort, Ky., for use in repair work on Kentucky River, Kentucky, received in response to advertisement dated April 15, 1909, and opened April 28, 1909, by Lieut. Col. J. G. Warren, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation. Indefinite, as applied to Kentucky River, Kentucky.]

No.	Bidders' names and addresses.	Rebate per bag for empty bags returned.	Brand.	5,000 barrels American Portland cement, delivered f. o. b. Frankfort, Ky.	
				Per barrel.	
1	T. J. Hall & Co., Cincinnati, Ohio.	\$0.075	Edison		\$1.60
2	Cincinnati Sewer Pipe Co., Cincinnati, Ohio.	.06	Dexter		1.74
3	Kosmos Portland Cement Co., Louisville, Ky.	.10	Kosmos		1.56
4	Universal Portland Cement Co., Pittsburgh, Pa.	.10	Universal		1.87
5	Alpha Portland Cement Co., Easton, Pa.	.075	Alpha		1.69
6	Vulcanite Portland Cement Co., New York, N. Y.	.075	Vulcanite		1.80
7	Lehigh Portland Cement Co., Cleveland, Ohio.	.075	Lehigh		1.51
8	Virginia Portland Cement Co., New York, N. Y.	.075	Old Dominion		1.56
9	Alma Cement Co., Wellston, Ohio.	.075	Alma		1.53
10	Ironton Portland Cement Co., Ironton, Ohio	.10	Limestone		1.70
11	The Moores-Coney Co., Cincinnati, Ohio	.075	Atlas		1.79

Bid No. 3 accepted and emergency contract entered into May 6, 1909. Total of bid No. 3 (the lowest bid) is \$7,800; rebate on empty bags returned to point of delivery, 20,000 at 10 cents per bag, \$2,000; net cost of cement, \$5,800.

PITTSBURG (PA.) DISTRICT.

[Officer: Maj. H. C. Newcomer, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposal for building four lock houses; two at Lock 2, Allegheny River, near Brilliant, Pa., and two at Lock 2, Monongahela River, Braddock, Pa., received in response to advertisement dated February 15, 1909, opened at Pittsburg, Pa., March 17, 1909, by Maj. H. C. Newcomer, Corps of Engineers.

No.	Name and address of bidder.	Two houses	Two houses
		at Lock 2, Allegheny River.	at Lock 2, Mononga- hela River.
1	J. W. Reed & Son, Brownsville, Pa.	Each. \$6,005.60	Each. \$6,600.00
2	The Whitzell Building Co., Pittsburg, Pa.	4,988.00	4,988.00
3	T. O. Reese & Bro., West View, Pa.	11,510.00	11,708.00
4	D. T. Riffle, Pittsburg, Pa.	5,097.75	5,197.75
5	W. F. Trimble & Sons Co., Pittsburg, Pa.	6,000.00	6,200.00
6	Emerick-McWhirter Co., Aspinwall, Pa.	5,347.00	5,573.00
7	George H. Moore, Sharpsburg, Pa.	5,573.00	5,573.00
8	Wm. Kerr's Sons, Pittsburg, Pa.	10,935.00	10,791.00
9	Calhoun & Miller, Pittsburg, Pa.	5,088.50	5,514.50
10	Henry Shenk Co., Pittsburg, Pa.	6,173.00	6,173.00
11	J. A. Gettig, Braddock, Pa.	4,973.00	4,973.00
12	The George Hogg Co., Braddock, Pa.	6,256.90	7,150.00
13	J. H. Schran, Sharpsburg, Pa.	5,350.00	5,650.00
14	C. L. Mohney & Co., Pittsburg, Pa.	5,436.00	5,436.00
15	Johnson & Anderson, Braddock, Pa.	4,522.00	4,468.50
16	S. L. Smith & Co., Wilkinsburg, Pa.	5,497.00	5,597.00
17	Michael Senge, Pittsburg, Pa.	5,050.00	5,150.00
18	P. Sinnott & Sons, Pittsburg, Pa.	5,456.00	5,036.00
19	H. A. & C. A. Johnson, Pittsburg, Pa.	4,865.00	

Abstract of proposals for building lock gates and lock-operating machinery for Lock 5, at Brownsville, Pa., on the Monongahela River, received in response to advertisement dated February 15, 1909, opened at Pittsburg, Pa., March 17, 1909, by Maj. H. C. Newcomer, Corps of Engineers.

No.	Name and address of bidder.	Section A, machinery.	Section B, lock gates.
1	Rosedale Foundry and Machine Co., Pittsburg, Pa.	\$19,099.00	
2	Pittsburgh Bridge and Iron Works, Rochester, Pa.		\$20,894.00
3	H. P. Gazzam Machine Co., Pittsburg, Pa.	18,604.75	33,238.50
4	Penn Bridge Co., Beaver Falls, Pa.		28,890.00
5	W. N. Kratzer & Co., Pittsburg, Pa.		26,300.00
6	Sterrit-Thomas Foundry Co., Pittsburg, Pa.	16,150.00	
7	J. & J. B. Miholland Co., Pittsburg, Pa.	14,938.66	
8	Pittsburg Valve, Foundry and Construction Co., Pittsburg, Pa.	17,350.00	
9	The Richard Manufacturing Co., Bloomsburg, Pa.	19,896.00	
10	Aetna Foundry and Machine Co., Warren, Ohio.	22,480.00	
11	The H. E. Talbott Co., Dayton, Ohio.	29,800.00	36,990.00
12	R. S. Newbold & Son Co., Philadelphia, Pa.	18,458.00	
13	McClintic-Marshall Construction Co., Pittsburg, Pa.		22,400.00
14	New Jersey Foundry and Machine Co., New York, N. Y.	23,930.00	
15	Independent Bridge Co., Pittsburg, Pa.		26,018.00
16	G. & W. Manufacturing Co., New York, N. Y.	18,973.00	
17	Griffiths Iron Works Co., St. Louis, Mo.		34,558.00
18	Union Foundry and Machine Co., Pittsburg, Pa.	22,319.87	33,494.73
19	The Dertick & Harvey Machine Co., Baltimore, Md.	18,144.00	
20	The Exeter Machine Works, Pittston, Pa.		a 17,400.00
21	Hoisting Machinery Co., New York, N. Y.	16,000.00	

a The Exeter Machine Works now state that this bid was intended for Section A.

UNITED STATES ENGINEER OFFICE,
Pittsburg, Pa., June 9, 1909.

Abstract of proposals for furnishing and installing a water-power air-compressor plant at new Lock 5, Monongahela River, Brownsville, Pa., opened at Pittsburg, Pa., 12 m., eastern standard time, June 9, 1909, by Maj. H. C. Newcomer, Corps of Engineers, U. S. Army.

No.	Name and address of bidder.	Price bid.
1	Hall Steam Pump Co., Pittsburg, Pa.	(1) \$5,350
		(2) 5,025
		(3) 4,850
		(4) 5,120
		(5) 5,625
		(6) 5,120 6,570 6,504
2	The Trump Manufacturing Co., Springfield, Ohio.	
3	Pittsburgh Gage and Supply Co., Pittsburg, Pa.	

WHEELING (W. VA.) DISTRICT.

[Officer: Capt. F. W. Alstaetter, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing American Portland cement at Dam No. 19, Ohio River, received in response to advertisement dated June 24, 1908, and opened at Wheeling, W. Va., on July 3, 1908, by Capt. F. W. Alstaetter, Corps of Engineers.

No.	Name and address of bidder.	Portland cement.				Total.	Allowance for sacks.	Brand.			
		1,400 barrels in sacks.		200 barrels in wood.							
		Rate.	Amount.	Rate.	Amount.						
1	Miller & Coulson, Pittsburg, Pa.	\$1.52	\$2,128.00	\$1.44	\$288.00	\$2,416.00	7½	Penn-Allen.			
2	The Cumberland Hydraulic Cement and Manufacturing Co., Cumberland, Md.	1.4275	1,998.50	1.45	290.00	2,288.50	7½	Dragon.			
3	D. J. Kennedy Co., Pittsburg, Pa.	1.53	2,142.00	1.55	310.00	2,452.00	7½	Bath.			
a 4	The Superior Portland Cement Co., Charleston, W. Va.	1.20	1,680.00	1.30	260.00	1,940.00	7½	Superior.			
5	Lehigh Portland Cement Co., Cleveland, Ohio.	1.53	2,142.00	1.55	310.00	2,452.00	7½	Lehigh.			
6	The Ironton Portland Cement Co., Ironton, Ohio.	1.35	1,890.00	1.45	290.00	2,180.00	7½	Limestone.			
7	The J. E. Wright Co., Wheeling, W. Va.	1.5275	2,138.50	1.55	310.00	2,448.50	7½	Giant.			
8	The Atlas Portland Cement Co., New York, N. Y.	1.4775	2,068.50	1.50	300.00	2,368.00	7½	Atlas.			

a Accepted.

Abstract of proposals for furnishing American Portland cement for Dam No. 26, Ohio River, received in response to advertisement dated June 26, 1908, and opened at Wheeling, W. Va., on July 6, 1908, by Capt. F. W. Alstaetter, Corps of Engineers.

No.	Name and address of bidder.	Cement, 1,500 barrels.		Brand.	Allowance for sacks.
		Rate.	Amount.		
1	The Atlas Portland Cement Co., New York, N. Y.	\$1.5864	\$2,379.60	Atlas.....	7½
2	Alpha Portland Cement Co., Pittsburg, Pa.	1.54	2,310.00	Alpha.....	7½
3	D. J. Kennedy Co., Pittsburg, Pa.	1.5875	2,381.25	Bath.....	7½
a 4	The Ironton Portland Cement Co., Ironton, Ohio.	1.40	2,100.00	Limestone.....	7½
5	The Cumberland Hydraulic Cement and Manufacturing Co., Cumberland, Md.	1.456	2,229.00	Dragon.....	7½
6	Miller & Coulson, Pittsburg, Pa.	1.59	2,385.00	Penn-Allen....	7½

a Accepted.

Abstract of proposals for constructing and erecting steel gates for locks at Dams Nos. 18 and 19, Ohio River, received in response to advertisement dated June 24, 1908, and opened at Wheeling, W. Va., on July 9, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Designation.	Quantity.	(1) Lawrence D. Weaning, Cleve-land, Ohio. ^a		(2) Penn Bridge Co., Beaver Falls, Pa. ^b		(3) Pennsylvania Contracting Co., Pittsburg, Pa. ^b	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
<i>Dam No. 18.</i>								
Structural steel.....	Pounds.....	422,000	\$0.06	\$25,320.00	\$0.0576	\$24,307.20	\$0.045	\$18,990.00
Forgings.....	do.....	68,000	.0375	2,550.00	.0847	5,759.60	.076	5,168.00
Bolts, etc.....	do.....	7,750	.0535	414.63	.0656	508.40	.045	348.75
Machinery steel.....	do.....	24,000	.0435	1,044.00	.0679	1,629.60	.064	1,536.00
Iron castings.....	do.....	36,500	.0325	1,186.25	.051	1,861.50	.042	1,533.00
Steel castings.....	do.....	36,200	.0925	3,348.50	.10	3,620.00	.064	2,316.80
Alloys.....	do.....	2,340	.35	819.00	.488	1,141.92	.25	555.00
Common timber	Feet b. m.....	10,300	c 35.00	360.50	c 60.00	618.00	c 65.00	669.50
Oak timber.....	do.....	2,650	c 65.00	172.25	c 60.00	159.00	c 75.00	198.75
Total.....				35,215.13		39,605.22		31,345.80
<i>Dam No. 13.</i>								
Structural steel.....	Pounds.....	422,000	.06	25,320.00	.0576	24,307.20	.045	18,990.00
Forgings.....	do.....	68,000	.0375	2,550.00	.0847	5,759.60	.076	5,168.00
Bolts, etc.....	do.....	7,750	.0535	414.63	.0656	508.40	.045	348.75
Machinery steel.....	do.....	24,000	.0435	1,044.00	.0679	1,629.60	.064	1,536.00
Iron castings.....	do.....	36,500	.0325	1,186.25	.051	1,861.50	.042	1,533.00
Steel castings.....	do.....	36,200	.0925	3,348.50	.10	3,620.00	.064	2,316.80
Alloys.....	do.....	2,340	.35	819.00	.488	1,141.92	.25	555.00
Common timber	Feet b. m.....	10,300	c 35.00	360.50	c 60.00	618.00	c 65.00	669.50
Oak timber.....	do.....	2,650	c 65.00	172.25	c 60.00	159.00	c 75.00	198.75
Total.....				35,215.13		39,605.22		31,345.80

^a Recommended for acceptance.^b Informal.^c Per thousand feet.

Abstract of proposal for building 112 linear feet of spur dike at Lock No. 1, Little Kanawha River, received in response to advertisement dated July 1, 1908, and opened at Parkersburg, W. Va., on July 10, 1908, by Wm. M. Hall, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

Item.	Designation.	Quantity.	(1) Parkersburg and Marietta Sand Co., Parkersburg, W. Va. ^a	
			Rate.	Amount.
Driving round piles.....	Linear feet.....			
Driving and placing sheeting.....	Feet b. m.....	587	\$0.50	\$293.50
Placing waling.....	do.....	7,780	b 60.00	466.80
		832	b 25.00	20.80
Total.....				781.10

^a Accepted.^b Per thousand feet.

Abstract of proposals for furnishing oak lumber, bolts, etc., for service bridge for Dam No. 18, Ohio River, received in response to advertisement dated July 17, 1908, and opened at Wheeling, W. Va., on July 27, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Oak lumber, 7,094 feet b. m.		Bolts, 10,592 pounds.		Castings, 4,638 pounds.		Total.
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	
1	Stiles Foundry and Supply Co., Parkersburg, W. Va.			\$0.0545	\$577.26	\$0.0385	\$178.56	\$755.82
2	H. M. Richardson Steel and Iron Co., Cincinnati, Ohio.			.035	370.72	.0515	238.86	609.58
3	Nicolette Lumber Co., Nicolette, W. Va.	\$38.00	\$269.57					269.57
4	The Charleston Lumber Co., Charleston, W. Va.	a 35.00	248.29					248.29
5	Penn Bridge Co., Beaver Falls, Pa.			.041	434.27	.0545	252.77	687.04
6	J. & J. B. Milholland Co., Pitts- burg, Pa.	a 29.25	207.50	.0255	270.10	.025	115.95	593.55
7	Sterrit - Thomas Foundry Co., Pittsburg, Pa.	a 42.00	297.95	.0235	248.91	.025	115.95	662.81
8	G. Elias & Bro., Buffalo, N. Y.	a 42.00	297.95					297.95

a Per thousand feet.

b Accepted.

Abstract of proposals for building abutment for Dam No. 19, Ohio River, received in response to advertisement dated July 25, 1908, and opened at Wheeling, W. Va., on August 10, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Designation.	Quan- tity.	(1) Pennsyl- vania Contract- ing Co., Pitts- burg, Pa. ^a		(2) The Ohio River Contract Co., Evansville, Ind.		(3) Preston G. Curtis, Milton H. Shumway, Portsmouth, Ohio. ^a	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Common excavation	Cubic yards	3,500	\$0.85	\$2,975.00	\$1.00	\$3,500.00	\$1.25	\$4,375.00
Rock excavation	do	195	3.50	682.50	3.00	585.00	2.00	390.00
Fill	do	1,900	.95	1,805.00	1.00	1,900.00	.50	950.00
Base for paving	do	270	1.75	472.50	2.50	675.00	2.00	540.00
Riprap	do	650	3.50	2,275.00	4.00	2,600.00	5.00	3,250.00
Concrete	do	1,140	9.75	11,115.00	8.50	9,690.00	7.50	8,550.00
Placing iron and steel	Pounds	1,200	.02	24.00	.02	24.00	.03	36.00
Placing pipe and fittings	Linear feet	70	.25	17.50	.25	17.50	.05	3.50
Total				19,366.50		18,991.50		18,094.50

a Informal.

All bids recommended for rejection.

Abstract of proposals for unwatering and removing deposit, etc., from gate recesses of lock at Dam No. 13, Ohio River, received in response to advertisement dated August 1, 1908, and opened at Wheeling, W. Va., on August 10, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Designation.	Quan- tity.	(1) The Hollerbach & May Contract Co., Bellaire, Ohio. ^a		(2) Pennsylvania Contracting Co., Pittsburg, Pa.	
			Rate.	Amount.	Rate.	Amount.
Building bulkheads	Number	2	\$1,000.00	\$2,000.00	\$1,200.00	\$2,400.00
Pumping, 8-hour day	do	45			48.00	2,160.00
Pumping, 24-hour day	do	35	30.00	1,050.00	90.00	3,150.00
Removing deposit, etc.	Cubic yards	1,400	2.00	2,800.00	2.50	3,500.00
Maintenance	Days	15	20.00	300.00	50.00	750.00
Total				6,150.00		11,960.00

a Informal. Accepted.

Abstract of proposals for furnishing and delivering trestles and pins for the Kanawha River improvement, received in response to advertisement dated August 8, 1908, and opened at Wheeling, W. Va., August 18, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	75 trestles, with 50 extra rail pins (62,200 pounds).	
		Rate.	Amount.
1	The Van Dorn Iron Works Co., Cleveford, Ohio.	\$0.045	\$2,799.00
2	N. D. Yant & Co., Pittsburg, Pa.	.0825	5,131.50
3	Penn Bridge Co., Beaver Falls, Pa.	.0425	2,643.50
4	C. & W. Manufacturing Co., New York, N. Y.	.0413	2,568.86
5	The Griscom-Spencer Co., New York, N. Y.	.09	5,598.00
6	Kanawha Mine Car Co., Charleston, W. Va.	.087	5,411.40
7	The Variety Iron and Steel Works Co., Cleveland, Ohio	.043	2,674.60
8	Chas. Hegewald Co., New Albany, Ind.	.0499	3,103.78
9	New Jersey Foundry and Machine Co., New York, N. Y.	.0637	3,962.14
10	Sterritt-Thomas Foundry Co., Pittsburg, Pa.	.036	2,239.20
11	Griffiths Iron Works Co., St. Louis, Mo.	.049	3,047.80

a Accepted.

Abstract of proposals for furnishing and delivering coal at Dam No. 18, Ohio River, received in response to advertisement dated August 13, 1908, and opened at Wheeling, W. Va., on August 21, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Run-of-mine coal, 30,000 bushels—estimated: 15,000 bushels each by river and rail.				
		Rate by river.	Amount.	Rate by rail.	Amount.	Total.
1	Meadow Brook Coal and Coke Co., Fairmont, W. Va.	\$0.08	\$1,200.00	\$0.064	\$960.00	\$2,160.00
2	Berger-Aiken Coal Co. (Incorporated), Pittsburg, Pa.	.0675	1,012.50	.0675	1,012.50	2,025.00
3	The Monongahela Consolidated Coal and Coke Co., Pittsburg, Pa.	.08	1,200.00	b 2.4500	1,470.00	2,670.00
4	Blue Ridge Coal Co., Clarksburg, W. Va.			.0600	1,800.00	1,800.00
5	National Coal Co., Baltimore, Md.			.0650	1,950.00	1,950.00
6	Rail and River Coal Co., Pittsburg, Pa.	.0650	975.00	.0650	975.00	1,950.00

a Accepted.

b 2,000 pounds.

Abstract of proposals for furnishing and delivering timber for gates for Lock No. 4, Kanawha River, received in response to advertisement dated August 4, 1908, and opened at Charles-ton, W. Va., August 24, 1908, by Thos. E. Jeffries, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Lot No. 1.		Lot No. 2.		Total.	
		White oak timber, 7,475 feet b. m.		White oak or fir timber, 50,352 feet b. m.			
		Rate.	Amount.	Rate.	Amount.		
1	W. M. Ritter Lumber Co., Charleston, W. Va.	Per M.	\$37.00	Per M.	\$34.00	\$1,711.97	
2	C. Crane & Co., Cincinnati, Ohio.		35.00		35.00	1,762.32	
3	A. C. Fowler, Honaker, Va.		38.50		38.50	1,938.55	
4	E. H. Lewis Lumber Co., Seattle, Wash.				37.00	1,863.02	
5	The Marsh & Bingham Co., Chicago, Ill.				38.00	1,913.37	
6	A. W. Watrous, Charleston, W. Va.		42.00		45.00	2,265.84	
7	Kanawha Dock Co., Point Pleasant, W. Va.		43.00		321.43	2,165.13	
8	The Parkersburg Mill Co., Parkersburg, W. Va.		46.00		343.85	2,316.19	
9	Dana Lumber Co., Dana, W. Va.		48.85		365.15	2,459.70	
10	American Lumber and Manufacturing Co., Pittsburg, Pa.		45.00		336.38	2,265.84	

a At \$40 per M delivered on boat at lock=\$2,313.08.

No. 1 accepted.

Abstract of proposals for building a power house at each of dams Nos. 18, 19, and 26, Ohio River, received in response to advertisement dated July 27, 1908, and opened at Wheeling, W. Va., on August 26, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	(1) Joseph Hile, John S. Higgs, Parkersburg, W. Va.	(2) Jno. C. Unkefer & Co., Minerva, Ohio.	(3) Volney E. Taylor, Central City, W. Va.	(4) C. L. Mohney & Co., Pittsburgh, Pa.	(5) W. Bateson & Co., Wheeling, W. Va.
<i>Dam No. 18.</i>					
Item 1, grading.....	\$302	\$400	\$806	.....	\$970.00
Item 2, concrete foundation.....	2,205	3,150	4,050	.....	2,927.50
Item 3, concrete floor.....	128	341	180	.....	260.00
Item 4, reinforced floors, etc.....	1,996	3,700	2,450	.....	7,529.00
Item 5, reinforced floor for engine room.....	728	430	640	.....	1,101.60
Item 6, brick floor.....	221	260	260	.....	275.00
Item 7, brickwork.....	4,532	9,300	6,650	.....	7,595.00
Item 8, stonework.....	1,522	2,030	2,500	.....	1,850.00
Item 9, window and door frames.....	587	550	470	.....	457.00
Item 10, structural steel.....	4,918	5,000	6,500	.....	4,070.00
Item 11, architectural iron.....	933	1,400	1,500	.....	1,125.00
Item 12, sheet-metal work.....	605	360	895	.....	325.00
Item 13, tile roof.....	1,595	600	1,500	.....	1,300.00
Item 14, plastering.....	555	754	1,250	.....	1,000.00
Item 15, sewers.....	208	700	1,200	.....	40.00
Item 16, plumbing.....	1,200	1,269	1,800	.....	2,096.00
Item 17, electric wiring.....	477	400	1,250	.....	750.00
Item 18, hardware.....	200	375	300	.....	230.00
Item 19, interior woodwork.....	608	1,210	1,300	.....	3,943.00
Item 20, glazing.....	192	150	470	.....	350.00
Item 21, painting.....	495	500	425	.....	650.00
Total.....	24,207	32,879	36,396	\$35,653	38,844.10
<i>Dam No. 19.</i>					
Item 1, grading.....	302	400	806	.....	970.00
Item 2, concrete foundation.....	2,205	3,150	4,050	.....	3,427.50
Item 3, concrete floor.....	128	341	180	.....	300.00
Item 4, reinforced floors, etc.....	2,076	3,700	2,450	.....	8,400.00
Item 5, reinforced floor for engine room.....	728	430	640	.....	1,301.00
Item 6, brick floor.....	221	260	260	.....	305.00
Item 7, brickwork.....	4,532	9,300	6,650	.....	8,450.00
Item 8, stonework.....	1,522	2,030	2,500	.....	1,960.00
Item 9, window and door frames.....	587	550	470	.....	457.00
Item 10, structural steel.....	4,918	5,000	6,500	.....	4,070.00
Item 11, architectural iron.....	933	1,400	1,500	.....	1,125.00
Item 12, sheet-metal work.....	605	360	895	.....	325.00
Item 13, tile roof.....	1,595	600	1,500	.....	1,300.00
Item 14, plastering.....	555	754	1,250	.....	1,150.00
Item 15, sewers.....	208	700	1,200	.....	40.00
Item 16, plumbing.....	1,200	1,269	1,800	.....	2,000.00
Item 17, electric wiring.....	477	400	1,250	.....	750.00
Item 18, hardware.....	200	375	300	.....	230.00
Item 19, interior woodwork.....	608	1,210	1,300	.....	3,943.00
Item 20, glazing.....	192	150	470	.....	385.00
Item 21, painting.....	495	500	425	.....	725.00
Total.....	24,287	32,879	36,396	32,943	41,613.50
<i>Dam No. 26.</i>					
Item 1, grading.....	302	400	806	.....	970.00
Item 2, concrete foundation.....	2,205	3,400	4,050	.....	2,927.50
Item 3, concrete floor.....	128	350	180	.....	260.00
Item 4, reinforced floors, etc.....	2,076	3,900	2,450	.....	7,529.00
Item 5, reinforced floor for engine room.....	728	450	640	.....	1,101.60
Item 6, brick floor.....	221	270	260	.....	275.00
Item 7, brickwork.....	4,832	9,900	6,650	.....	7,995.00
Item 8, stonework.....	1,522	2,100	2,500	.....	1,850.00
Item 9, window and door frames.....	587	550	470	.....	457.00
Item 10, structural steel.....	4,918	5,000	6,500	.....	4,070.00
Item 11, architectural iron.....	933	1,400	1,500	.....	1,125.00
Item 12, sheet-metal work.....	605	360	895	.....	325.00
Item 13, tile roof.....	1,595	600	1,500	.....	1,300.00
Item 14, plastering.....	555	754	1,250	.....	1,000.00
Item 15, sewers.....	208	700	1,200	.....	40.00
Item 16, plumbing.....	1,200	1,269	1,800	.....	2,000.00
Item 17, electric wiring.....	477	400	1,250	.....	750.00
Item 18, hardware.....	200	375	300	.....	230.00
Item 19, interior woodwork.....	608	1,210	1,300	.....	3,943.00
Item 20, glazing.....	192	150	470	.....	385.00
Item 21, painting.....	495	500	425	.....	725.00
Total.....	24,587	34,038	36,396	32,100	39,257.50

Nos. 1, 2, 4, and 5 informal.
No. 1 recommended for acceptance.

Abstract of proposals for building power house at Dam No. 13, Ohio River, received in response to advertisement dated July 31, 1908, and opened at Wheeling, W. Va., on August 31, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	(1) W. Bateson & Co., Wheeling, W. Va.	(2) The W. W. Wood Co., Wheeling, W. Va.	(3) C. L. Mohnay & Co., Pitts- burgh, Pa.
Reinforced floors, etc.	\$4,886	\$2,697	
Brickwork.	2,834	3,650	
Stonework.	1,398	2,443	
Window and door frames.	660	520	
Structural steel.	3,090	3,750	
Architectural iron.	700	1,440	
Sheet metal.	366	229	
Tile roof.	950	682	
Boiler-room roof.	85	558	
Plastering.	696	416	
Sewers.	85	210	
Plumbing.	735	870	
Electric wiring.	453	452	
Interior woodwork.	2,220	1,715	
Glazing.	150	120	
Painting.	620	540	
Hardware.	220	220	
Total.	20,148	20,512	20,820
Will complete in.	200 calendar days.	180 calendar days.	Not given.

Nos. 1, 2, and 3 informal.

No. 1 recommended for acceptance.

Abstract of proposals for building lock-keepers' houses at Dams Nos. 18 and 26, Ohio River, received in response to advertisement dated August 24, 1908, and opened at Wheeling, W. Va., on September 23, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	(1) John H. Wigner, John Dale, Gallipolis, Ohio.	(2) C. L. Mohnay & Co., Pitts- burgh, Pa.	(3) Stephen Da- vidson, Parkers- burg, W. Va.	(4) Volney E. Tay- lor, Central City, W. Va.	(5) The Spindler- Dudley Co., Wheeling, W. Va.	(6) Joseph Hile & John S. Higgs, Parkersburg, W. Va.	(7) W. Bateson & Co., Wheeling, W. Va.
<i>Dam No. 18.</i>							
Grading.				\$150	\$258.00	\$150	\$360
Concrete foundations.				565		412	740
Concrete floor.				200	1,050.00	225	225
Brickwork.				1,285	2,229.25	1,459	1,573
Cut stone.				225	537.00	419	320
Window and door frames.				110		220	275
Framing.				695		671	880
Sheet-metal work.				85		278	225
Slate roof.				320	425	388	269
Sewers.				150	558	110	300
Plumbing.				675		770	534
Heating.				355	225.00	275	280
Electric wiring.				100	342.75	346	422
Plastering.				375	400.00	342	650
Floors and wooden partitions.				430		290	530
Porches and outside steps.				215	2,500.00	258	400
Interior woodwork.				1,000		825	885
Hardware.				145	125.00	182	288
Glazing.				245	225.00	110	220
Painting.				150		155	240
Total.	\$11,781	\$8,250	7,475	8,875.00	7,885	9,616	

Abstract of proposals for building lock-keepers' houses at Dams Nos. 18 and 26, Ohio River, received in response to advertisement dated August 24, 1908, etc.—Continued.

Article.	(1) John H. Wigner, John V. Dale, Gallipolis, Ohio.		(2) C. L. Mohney & Co., Pittsburgh, Pa.		(3) Stephen Davidson, Parkersburg, W. Va.		(4) Volney E. Taylor, Central City, W. Va.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
<i>Dam No. 26.</i>								
(For each house.)								
Grading.....	\$196	\$392	.....	.....	.....	.....	\$150	\$300
Concrete foundations.....	630	1,260	.....	.....	.....	.....	565	1,130
Concrete floor.....	200	400	.....	.....	.....	.....	200	400
Brickwork.....	1,750	3,500	.....	.....	.....	.....	1,285	2,570
Cut stone.....	175	350	.....	.....	.....	.....	225	450
Window and door frames.....	192	384	.....	.....	.....	.....	110	220
Framing.....	934	1,868	.....	.....	.....	.....	695	1,390
Sheet-metal work.....	566	1,132	.....	.....	.....	.....	85	170
Slate roof.....	388	776	.....	.....	.....	.....	320	640
Sewers.....	319	638	.....	.....	.....	.....	150	300
Plumbing.....	1,160	2,320	.....	.....	.....	.....	675	1,350
Heating.....	240	480	.....	.....	.....	.....	355	710
Electric wiring.....	385	770	.....	.....	.....	.....	100	200
Plastering.....	376	752	.....	.....	.....	.....	375	750
Floors and wooden partitions.....	275	550	.....	.....	.....	.....	430	860
Porches and outside steps.....	279	558	.....	.....	.....	.....	215	430
Interior woodwork.....	1,440	2,880	.....	.....	.....	.....	1,000	2,000
Hardware.....	175	350	.....	.....	.....	.....	145	290
Glazing.....	80	160	.....	.....	.....	.....	245	490
Painting.....	275	550	.....	.....	.....	.....	150	300
Total.....	20,070	\$9,981	\$19,962	\$8,500	\$17,000	.....	.....	14,950
To be completed in.....	192 days.....	{130 days No. 18...		120 days No. 18...	}300 days.			120 days No. 26...

Article.	(5) The Spindler-Dudley Co., Wheeling, W. Va.		(6) Joseph Hile and John S. Higgs, Parkersburg, W. Va.		(7) W. Bateson & Co., Wheeling, W. Va.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
<i>Dam No. 26.</i>						
(For each house.)						
Grading.....	\$258.00	\$516.00	\$150	\$300	\$340	\$680
Concrete foundations.....	412	824	700	1,400	534	1,068
Concrete floor.....	225	450	200	400	275	550
Brickwork.....	1,459	2,918	1,500	3,000	300	600
Cut stone.....	419	838	440	880	400	800
Window and door frames.....	220	440	275	550	220	440
Framing.....	671	1,342	880	1,760	525	1,050
Sheet-metal work.....	278	556	220	440	300	600
Slate roof.....	388	776	240	480	220	440
Sewers.....	110	220	300	600	200	400
Plumbing.....	845	1,690	534	1,068	395	790
Heating.....	275	550	280	560	275	550
Electric wiring.....	346	692	400	800	364	728
Plastering.....	342	684	600	1,200	320	640
Floors and wooden partitions.....	290	580	525	1,050	250	500
Porches and outside steps.....	258	516	395	790	250	500
Interior woodwork.....	825	1,650	875	1,750	825	1,650
Hardware.....	182	364	275	550	220	440
Glazing.....	110	220	150	300	110	220
Painting.....	155	310	250	500	150	300
Total.....	18,150.00	.....	15,920.00	.....	18,478	.....
To be completed in.....	.....	140 days.	.....	.....	.....	.....

Nos. 1, 2, 3, 4, 5, 6, and 7 informal.
No. 2. Recommended for acceptance.

Abstract of proposals for furnishing and delivering riprap stone for Dam No. 18, Ohio River, received in response to advertisement dated September 30, 1908, and opened at Parkersburg, W. Va., October 5, 1908, by Wm. M. Hall, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Riprap stone, 2,800 cubic yards.	
		Rate.	Amount.
1	F. W. Knowles, Belpre, Ohio.	\$0.80	\$2,240
2	The Constitution Stone Co., Constitution, Ohio.	.10	280

a Accepted.

Abstract of proposals for furnishing and delivering material for steel service bridge, Dam No. 18, Ohio River, received in response to advertisement dated October 3, 1908, and opened at Wheeling, W. Va., on October 12, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Trestles, etc., 132,625 pounds.		Time for com- pletion.	
		Rate.	Amount.	Certifi- cate.	No certifi- cate.
1	Sterrit-Thomas Foundry Co., Pittsburg, Pa.	\$0.039	\$5,172.38	60	60
2	Penn Bridge Co., Beaver Falls, Pa.	.0419	5,556.99	60	40
a 3	Lawrence D. Weaning, Cleveland, Ohio.	.036	4,774.50	60	40
4	The L. Schreiber & Sons Co., Cincinnati, Ohio.	.095	12,599.38	60	-----
5	J. & J. B. Milholland Co., Pittsburg, Pa.	.0425	5,635.56	60	40

a Accepted.

Abstract of proposals for furnishing and delivering I beams, buckle plates, and bolts for Dams Nos. 13 and 18, Ohio River, received in response to advertisement dated October 23, 1908, and opened at Wheeling, W. Va., on October 29, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quan- tity.	(1) Sterrit-Thom- as Foundry Co., Pittsburg, Pa.		(2) J. & J. B. Milholland Co., Pittsburg, Pa.		(3) Lawrence D. Weaning, Cleve- land, Ohio.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
For No. 13: I beams	Pounds.	\$0.0235	\$63.45	\$0.021	\$56.70	0.023	\$62.10
Buckle plates	62,000	.032	1,984.00	.034	2,108.00	.025	1,550.00
Bolts, washers, etc.	2,300	.039	89.70	.045	103.50	.0445	102.35
For No. 18: I beams	30,400	.023	699.20	.022	668.80	.023	699.20
Buckle plates	68,000	.033	2,244.00	.035	2,380.00	.025	1,700.00
Bolts, washers, etc.	1,800	.05	90.00	.046	82.80	.0445	80.10
Total.			5,170.35		5,399.80		4,193.75
Time of delivery		30 days		30 days		30 days	

Article.	Quan- tity.	(4) Penn Bridge Co., Beaver Falls, Pa.		(5) N. D. Yant & Co., Pittsburg, Pa.	
		Rate.	Amount.	Rate.	Amount.
For No. 13: I beams	Pounds.	\$0.0234	\$63.18	\$0.0227	\$61.29
Buckle plates	62,000	.0275	1,705.00	.0297	1,841.40
Bolts, washers, etc.	2,300	.06	138.00	.04	92.00
For No. 18: I beams	30,400	.0224	680.96	.0212	644.48
Buckle plates	68,000	.0275	1,870.00	.0321	2,182.80
Bolts, washers, etc.	1,800	.06	108.00	.06	108.00
Total.			4,565.14		4,920.97
Time of delivery		30 days		30 days	

No. 3 accepted.

Abstract of proposals for furnishing and delivering maneuver boats for Dams Nos. 13 and 18, Ohio River, received in response to advertisement dated October 5, 1908, and opened at Wheeling, W. Va., on November 4, 1908, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) Pennsylvania Contracting Co., Pittsburgh, Pa.	(2) The Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.	(3) Howard Ship Yards Co., Jeffersonville, Ind.
		Amount.	Amount.	
Dam No. 13: Maneuver boat.....	1	\$3,937.75	^a \$3,800.00	\$4,243.00
Dam No. 18: Maneuver boat.....	1	3,937.75	^a 3,800.00	4,243.00
Total.....		7,875.50	7,600.00	8,486.00
Time for completion.....		150 days...	125 days...	90 days.

^a \$4,250 with boiler.

Nos. 1 and 3 informal.

No. 2 recommended for acceptance, with boiler.

Abstract of proposals for furnishing and delivering ironwork for lock gates for Lock No. 4, Kanawha River, received in response to advertisement dated November 7, 1908, and opened at Charleston, W. Va., on November 17, 1908, by Thos. E. Jeffries, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Steel (21,700 pounds).		Cast iron (12,100 pounds).		Machinery steel and hard steel (600 pounds).		Bronze (150 pounds).		Total.
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	
1	Richmond Iron Works, Richmond, Va.	\$0.08	\$1,736.00	\$0.06	\$726.00	\$0.15	\$90.00	\$0.45	\$67.50	\$2,619.50
2	The Champion Iron Co., Kenton, Ohio.	.051	1,106.70	.055	665.50	.20	120.00	.50	75.00	1,967.20
3	Vulcan Iron Works, Charleston, W. Va.	.06	1,302.00	.055	665.50	.40	240.00	.60	90.00	2,297.50
4	Lawrence D. Weaning, Cleveland, Ohio.	.0375	813.75	.065	786.50	.08	48.00	.30	45.00	1,693.25
5	Kanawha Mine Car Co., Charleston, W. Va.	.10	2,170.00	.06	726.00	.18	108.00	.40	60.00	3,064.00
6	Penn Bridge Co., Beaver Falls, Pa.	.0595	1,291.15	.0666	805.86	.2745	164.70	.37	55.50	2,317.21
7	The Aetna Foundry and Machine Co., Warren, Ohio.	.052	1,128.40	.039	471.90	.12	72.00	.32	48.00	1,720.30
8	Chas. Hegewald Co., New Albany, Ind.	.0549	1,191.33	.0449	543.29	.1199	71.94	.499	74.85	1,881.41
9	Scaife Foundry & Machine Co. (Limited), Pittsburgh, Pa.	.08	1,736.00	.08	968.00	.08	48.00	.08	12.00	2,764.00
10	Sterritt-Thomas Foundry Co., Pittsburgh, Pa.	.0525	1,139.25	.045	544.50	.16	96.00	.29	43.50	1,823.25
11	J. & J. B. Milholland Co., Pittsburgh, Pa.	.05	1,085.00	.043	520.30	.16	96.00	.30	45.00	1,746.30
12	South Side Foundry and Machine Works, Charleston, W. Va.	.071	1,540.70	.052	629.20	.282	169.20	.46	69.00	2,408.10
13	N. D. Yant & Co., Pittsburgh, Pa.	.0523	1,134.91	.04375	529.38	.17	102.00	.28	42.00	1,808.29

No. 4 accepted.

Abstract of proposals for repairing the U. S. steamer *Loma* received in response to advertisement dated January 28, 1909, and opened at Parkersburg, W. Va., on February 8, 1909, by Wm. M. Hall, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) Kanawha Dock Co., Point Pleasant, W. Va.		(2) Elizabeth Marine Ways Department, Elizabeth, Pa.		(3) Howard Ship Yards Co., Jeffersonville, Ind.		(4) Parkersburg Dock Co., Parkersburg, W. Va.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
White-oak timber.....	2,000 feet.....	\$45.00	\$90.00	\$70.00	\$140.00	\$45.00	\$90.00	\$50.00	\$100.00
White-pine lumber.....	100 feet.....	55.00	5.50	70.00	7.00	60.00	6.00	45.00	4.50
Galvanized iron.....	800 pounds.....	.04	32.00	.08	64.00	.05	40.00	.06	48.00
Oakum.....	200 pounds.....	.10	20.00	.14	28.00	.12	24.00	.09	18.00
Calking cotton.....	50 pounds.....	.15	7.50	.15	7.50	.20	10.00	.13	6.50
Lead, paint, varnish, and oil.....	250 pounds.....	.10	25.00	.....	.....	.12 $\frac{1}{2}$	31.25	.08	20.00
Nails, bolts, iron, and brads.....	487 pounds.....	.06	29.22	.06	29.22	.05	24.35	.04 $\frac{1}{2}$	21.92
Rent of docks for steamer <i>Loma</i>	Days of 24 hours.....	10.00	150.00	5.00	175.00	3.50	105.00	2.50	25.00
Services of—									
Superintendent of docks.....	120 hours.....	.45	54.00	.88	105.60	.55 $\frac{1}{2}$	66.60	.60	72.00
Foreman.....	do.....	.40	48.00	.53	63.60	.44 $\frac{1}{2}$	53.40	.45	54.00
Calkers.....	240 hours.....	.35	84.00	.47	112.80	.39	93.60	.37 $\frac{1}{2}$	90.00
Carpenters.....	440 hours.....	.35	154.00	.47	206.80	.39	171.60	.37 $\frac{1}{2}$	165.00
Blacksmiths and helpers.....	24 hours.....	.65	15.60	1.00	24.00	.50	12.00	.60	14.40
Painters.....	150 hours.....	.35	52.50	.50	75.00	.30	45.00	.37 $\frac{1}{2}$	56.25
Laborers.....	160 hours.....	.25	40.00	.28	44.80	.22	35.20	.25	40.00
Machinists.....	32 hours.....	.50	16.00	.56	17.92	.50	16.00	.60	19.20
Machinists' helpers.....	80 hours.....	.25	20.00	.44	35.20	.28	22.40	.50	40.00
Clerk.....	120 hours.....	.....	.....	.....	.....	.....	.....	.30	36.00
Docking U. S. steamer <i>Loma</i>.....	.....	.....	.....	.....	.....	.....	.....	.....	20.00
Total.....	.....	843.32	.....	1,136.44	.....	846.40	.....	.....	850.77
Time of completion.....	15 days.....	.....	35 days.....	.....	.....	30 days.....	.....	10 days.....	.....
Work to be done at.....	Point Pleasant, W. Va.	.....	Elizabeth, Pa.	.....	.....	Madison, Ind.	.....	Parkersburg, W. Va.	.....

No. 4 accepted.

Abstract of proposals for furnishing the necessary material and services and repairing government boats on Kanawha River, West Virginia, received in response to advertisement dated March 13, 1909, and opened at Charleston, W. Va., March 23, 1909, by Thos. E. Jeffries, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Designa- tion.	Quan- tity.	(1) Kanawha Dock Co., Point Pleasant, W. Va.	
			Rate.	Amount.
Dock fee for towboat James Rumsey.....	.....	.....	.....	\$250.00
Dock fee for dredge Addison.....	.....	.....	.....	75.00
Rental of docks for towboat, additional.....	Day.....	.....	\$10.00	.....
Rental of docks for dredge, additional.....	do.....	.....	10.00	.....
Spun oakum.....	Pounds.....	100	.20	20.00
Spikes.....	do.....	100	.04	4.00
Service of—				
Dock foreman.....	Hours.....	40	.50	20.00
Calkers.....	do.....	80	.40	32.00
Carpenters.....	do.....	80	.40	32.00
Blacksmith.....	do.....	40	.50	20.00
Laborers.....	do.....	300	.20	60.00
Pumpers.....	do.....	300	.25	75.00
Watchman.....	do.....	175	.25	43.75
Machinist.....	do.....	40	.50	20.00
Total.....	.....	.....	.....	651.75

No. 1 accepted.

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, Ohio River, received in response to advertisement dated February 23, 1909, and opened at Wheeling, W. Va., March 24, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

	Designation.	Quantity.	(1) Gee Electric Construction Co., Wheeling, W. Va.		(2) Riverside Engine Co., Oil City, Pa.	
			Rate.	Amount.	Rate.	Amount.
<i>Lot A.</i>						
Dam 13:						
Gas engines.....	Number.....	2	\$3,655.00	\$7,310.00	a \$6,522.20	\$13,044.40
Auxiliaries.....			663.50	663.50	950.00	950.00
Dam 18:						
Gas engines.....	Number.....	2	3,655.00	7,310.00	a 6,522.20	13,044.40
Auxiliaries.....			663.50	663.50	950.00	950.00
Total consumption per brake horsepower not to exceed—British thermal units at—				15,947.00		
Full load.....				10,500		10,500
Three-quarter load.....				11,500		12,000
Half load.....				13,500		13,000
Total fuel consumption not to exceed—British thermal units at no load.				350,000		15,000
<i>Lot B.</i>						
Dam 13, compressors.....	Number.....	2				
Dam 18, compressors.....	do.....	2				
Power per 100 cubic feet per minute not to exceed:						
When delivering air at 100 pounds per square inch pressure.						0.216
<i>Lot C.</i>						
Dam 13:						
Gate winches.....	Number.....	2				
Gate jacks.....	Set.....	1				
River-wall jacks.....	do.....	1				
Dam 18:						
Gate winches.....	Number.....	2				
Gate jacks.....	Set.....	1				
River-wall jacks.....	do.....	1				
<i>Lot D.</i>						
Dam 13:						
Pipe, $\frac{3}{4}$ -inch and smaller.....	Linear feet.....	260				
Pipe, 2-inch.....	do.....	650				
Pipe, 4-inch.....	do.....	1,000				
Pipe, 6-inch.....	do.....	320				
Drip pockets.....	Number.....	6				
Screw fittings, Crane Co.'s.....	List price.....	\$5				
Unions, Lunkhenheimer's.....	do.....	160				
Flange fittings, Crane Co.'s.....	do.....	1,200				
Cocks, Lunkhenheimer's.....	do.....	270				
Brass valves, Lunkhenheimer's.....	do.....	250				
Iron-body valves, Lunkhenheimer's.....	do.....	920				
Floor stands, Crane Co.'s.....	do.....	120				
Specialties.....	do.....	130				
Dam 18:						
Pipe, $\frac{3}{4}$ -inch and smaller.....	Linear feet.....	610				
Pipe, 2-inch.....	do.....	2,300				
Pipe, 4-inch.....	do.....	1,400				
Pipe, 6-inch.....	do.....	430				
Drip pockets.....	Number.....	8				
Screw fittings, Crane Co.'s.....	List price.....	\$60				
Unions, Lunkhenheimer's.....	do.....	210				
Flange fittings, Crane Co.'s.....	do.....	1,300				
Cocks, Lunkhenheimer's.....	do.....	310				
Brass valves, Lunkhenheimer's.....	do.....	350				
Iron-body valves, Lunkhenheimer's.....	do.....	1,500				
Floor stands, Crane Co.'s.....	do.....	120				
Specialties.....	do.....	200				
<i>Lot E.</i>						
Dam 13, air tanks, 3,000 gallons.....	Number.....	2				
Dam 18, air tanks, 1,000 gallons.....	do.....	6				
<i>Lot F.</i>						
Dam 18, tank and tower, complete.....	Number.....	1				

^a Includes compressors.

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

Designation.	Quan- tity.	(1) Gee Electric Construction Co., Wheeling, W. Va.		(2) Riverside En- gine Co., Oil City, Pa.	
		Rate.	Amount.	Rate.	Amount.
<i>Lot G.</i>					
Dam 18:					
Drilling through loose material	Linear feet 50				
Drilling through rock	do 250				
Casing	do 50				
Small air lift	do 300				
Large air lift	do 300				
<i>Lot H.</i>					
Dam 18:					
Concrete	Cubic yards 100				
Excavation	do 10				
<i>Lot A.</i>					
Dam 13:					
Gas engines		\$4,803.25	\$9,606.50		
Auxiliaries		317.50	317.50		
Dam 18:					
Gas engines		4,803.25	9,606.50		
Auxiliaries		317.50	317.50		
			19,848.00		
Total consumption per brake horsepower not to exceed—British thermal units at—					
Full load		10,500			
Three-quarter load		11,500			
Half load		13,500			
Total fuel consumption not to exceed—British thermal units at no load.					
		350,000			
<i>Lot C.</i>					
Dam 13:					
Gate winches			\$3,160	\$6,320.00	
Gate jacks			3,425	3,425.00	
River-wall jacks			3,600	3,600.00	
Dam 18:					
Gate winches			3,160	6,320.00	
Gate jacks			3,425	3,425.00	
River-wall jacks			3,600	3,600.00	
				26,690.00	
<i>Lot E.</i>					
Dam 13, air tanks, 3,000 gallons				562	1,124.00
Dam 18, air tanks, 1,000 gallons				228	1,368.00
					2,492.00
<i>Lot B.</i>					
Dam 13, compressors					
Dam 18, compressors					
Power per 100 cubic feet per minute not to exceed:					
When delivering air at 100 pounds per square inch pressure		18		17.00	
When delivering air at 50 pounds per square inch pressure		13		12.25	

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(7) J. B. Workman & Son, Danville, Ohio.	(8) Pittsburg Valve Foundry and Construction Co., Pittsburg, Pa.		
	Rate.	Amount.	Rate.	Amount.
<i>Lot A.</i>				
Dam 13:				
Gas engines.....				\$10,086.00
Auxiliaries.....				332.00
Dam 18:				
Gas engines.....				10,086.00
Auxiliaries.....				332.00
				<u>20,836.00</u>
Total consumption per brake horsepower not to exceed—British thermal units at—				
Full load.....			10,500	
Three-quarter load.....			11,500	
Half load.....			13,500	
Total fuel consumption not to exceed—British thermal units at no load.....			350,000	
<i>Lot B.</i>				
Dam 13, compressors.....				\$4,000.00
Dam 18, compressors.....				4,000.00
				<u>8,000.00</u>
Power per 100 cubic feet per minute not to exceed:				
When delivering air at 100 pounds per square inch pressure.....			18.60	
When delivering air at 50 pounds per square inch pressure.....			13.00	
Total horsepower not to exceed belt horsepower when unloaded.....			3.72	
<i>Lot C.</i>				
Dam 13:				
Gate winches.....			\$2,075	\$4,150.00
Gate jacks.....			2,350	2,350.00
River-wall jacks.....			2,550	2,550.00
Dam 18:				
Gate winches.....			2,075	4,150.00
Gate jacks.....			2,350	2,350.00
River-wall jacks.....			2,550	2,550.00
				<u>18,100.00</u>
<i>Lot D.</i>				
Dam 13:				
Pipe, $\frac{3}{8}$ -inch and smaller.....			.135	35.10
Pipe, 2-inch.....			.40	260.00
Pipe, 4-inch.....			1.30	1,300.00
Pipe, 6-inch.....			2.70	864.00
Drip pockets.....			11.00	66.00
				<i>Per cent of list.</i>
Screw fittings, Crane Co.'s.....			60	33.60
Unions, Lunkenheimer's.....			95	152.00
Flange fittings, Crane Co.'s.....			55	660.00
Cocks, Lunkenheimer's.....			80	216.00
Brass valves, Lunkenheimer's.....			110	275.00
Iron-body valves, Lunkenheimer's.....			60	552.00
Floor stands, Crane Co.'s.....			80	96.00
				<i>Per cent of net cost.</i>
Specialties.....			120	156.00
Dam 18:				
Pipe, $\frac{3}{8}$ -inch and smaller.....			\$0.135	82.35
Pipe, 2-inch.....			.40	920.00
Pipe, 4-inch.....			1.30	1,820.00
Pipe, 6-inch.....			2.70	1,161.00
Drip pockets.....			11.00	88.00

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(7) J. B. Workman & Son, Danville, Ohio.		(8) Pittsburg Valve Foundry and Construction Co., Pittsburg, Pa.	
	Rate.	Amount.	Rate.	Amount.
<i>Lot D—Continued.</i>				
Dam 18—Continued.				
Screw fittings, Crane Co.'s.....			Per cent of list.	
Unions, Lunkenhimer's.....			60	\$36.00
Flange fittings, Crane Co.'s.....			95	199.50
Cocks, Lunkenhimer's.....			55	715.00
Brass valves, Lunkenhimer's.....			80	248.00
Iron-body valves, Lunkenhimer's.....			110	385.00
Floor stands, Crane Co.'s.....			60	900.00
Specialties.....			80	96.00
			Per cent of net cost.	
			120	240.00
				11,556.55
<i>Lot E.</i>				
Dam 13, air tanks, 3,000 gallons.....				
Dam 18, air tanks, 1,000 gallons.....				
				1,700.00
				1,700.00
<i>Lot G.</i>				
Dam 18:				
Drilling through loose material.....	\$2.50	\$125.00		
Drilling through rock.....	3.00	750.00		
Casing.....	1.50	75.00		
Small air lift.....	1.50	450.00		
Large air lift.....	2.00	600.00		
Cubic feet free air required per 100 cubic feet of water per 100 feet of lift.....	500	2,000.00		
<i>Lot A.</i>				
Dam 13:				
Gas engines.....			\$5,000	\$10,000.00
Auxiliaries.....			1,000	1,000.00
Dam 18:				
Gas engines.....			5,000	10,000.00
Auxiliaries.....			1,000	1,000.00
Total consumption per brake horsepower not to exceed—British thermal units at—				22,000.00
Full load.....			10,000	
Three-quarter load.....			11,000	
Half load.....			14,000	
Total fuel consumption not to exceed—British thermal units at no load.....			500,000	
<i>Lot C.</i>				
Dam 13:				
Gate winches.....	\$1,858.75	\$3,717.50		
Gate jacks.....	3,848.75	3,848.75		
River-wall jacks.....	3,633.75	3,633.75		
Dam 18:				
Gate winches.....	1,858.75	3,717.50		
Gate jacks.....	3,848.75	3,848.75		
River-wall jacks.....	3,633.75	3,633.75		
			22,400.00	

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(11) Des Moines Bridge and Iron Co., Des Moines, Iowa.		(12) Chicago Pneumatic Tool Co., Chicago, Ill.	
	Rate.	Amount.	Rate.	Amount.
<i>Lot B.</i>				
Dam 13, compressors.....			\$2,590	\$5,180.00
Dam 18, compressors.....			2,590	5,180.00
				10,360.00
Power per 100 cubic feet per minute not to exceed:				
When delivering air at 100 pounds per square inch pressure.....			19.0	
When delivering air at 50 pounds per square inch pressure.....			13.5	
Total horsepower not to exceed belt horsepower when unloaded.....			22.0	
<i>Lot F.</i>				
Dam 18:				
Tank and tower, complete.....	\$1,450	\$1,450.00		
Weight of tank and tower not less than, pounds.....	12,000			
		1,450.00		
<i>Lot A.</i>				
Dam 13:				
Gas engines.....			\$4,153	\$8,306.00
Auxiliaries.....			997	997.00
Dam 18:				
Gas engines.....			4,162	8,324.00
Auxiliaries.....			1,020	1,020.00
				18,647.00
Total consumption per brake horsepower not to exceed—British Thermal units at—				
Full load.....			10,500	
Three-quarter load.....			11,500	
Half load.....			13,500	
Total fuel consumption not to exceed—British Thermal units at no load.....			350,000	
<i>Lot B.</i>				
Dam 13—compressors.....			\$1,944	3,888.00
Dam 18—compressors.....			1,992	3,984.00
				7,872.00
Power per 100 cubic feet per minute not to exceed:				
When delivering air at 100 pounds per square inch pressure.....			18.60	
When delivering air at 50 pounds per square inch pressure.....			13.00	
Total horsepower not to exceed belt horsepower when unloaded.....			3.72	
<i>Lot C.</i>				
Dam 13:				
Gate winches.....	\$2,052	\$4,104.00	\$2,064	4,128.00
Gate jacks.....	1,815	1,815.00	2,351	2,351.00
River-wall jacks.....	1,797	1,797.00	2,406	2,406.00
Dam 18:				
Gate winches.....	2,050	4,100.00	2,118	4,236.00
Gate jacks.....	1,815	1,815.00	2,394	2,394.00
River-wall jacks.....	1,795	1,795.00	2,449.80	2,449.80
			15,426.00	17,964.80

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(13) Thomas Carlin's Sons Co., Pittsburg, Pa.	(14) W. Bateson & Co., Wheeling, W. Va.		
	Rate.	Amount.	Rate.	Amount.
<i>Lot D.</i>				
Dam 13:				
Pipe, $\frac{3}{8}$ -inch and smaller.....			\$0.43	\$111.80
Pipe, 2-inch.....			.74	481.00
Pipe, 4-inch.....			1.93	1,930.00
Pipe, 6-inch.....			3.28	1,049.60
Drip pockets.....			14.20	85.20
<i>Per cent of list.</i>				
Screw fittings, Crane Co.'s.....			62	34.72
Unions, Lunkenhimer's.....			72	115.20
Flange fittings, Crane Co.'s.....			62	744.00
Cocks, Lunkenhimer's.....			53	143.10
Brass valves, Lunkenhimer's.....			71	177.50
Iron-body valves, Lunkenhimer's.....			54	496.80
Floor stands, Crane Co.'s.....			71	85.20
<i>Per cent of net cost.</i>				
Specialties.....			140	182.00
Dam 18:				
Pipe, $\frac{3}{8}$ -inch, and smaller.....			\$0.44	268.40
Pipe, 2-inch.....			.76	1,748.00
Pipe, 4-inch.....			1.98	2,772.00
Pipe, 6-inch.....			3.32	1,427.60
Drip pockets.....			14.20	113.60
<i>Per cent of list.</i>				
Screw fittings, Crane Co.'s.....			63	37.80
Unions, Lunkenhimer's.....			73	153.30
Flange fittings, Crane Co.'s.....			63	819.00
Cocks, Lunkenhimer's.....			54	167.40
Brass valves, Lunkenhimer's.....			72	252.00
Iron-body valves, Lunkenhimer's.....			55	825.00
Floor stands, Crane Co.'s.....			72	86.40
<i>Per cent of net cost.</i>				
Specialties.....			142	284.00
<i>14,590.62</i>				
<i>Lot E.</i>				
Dam 13, air tanks, 3,000 gallons.....	\$453	\$906.00	\$493.00	986.00
Dam 18, air tanks, 1,000 gallons.....	198	1,188.00	253.00	1,518.00
			2,094.00	2,504.00
<i>1,252.90</i>				
<i>17,250.00</i>				
<i>1,252.90</i>				
<i>1,793.00</i>				
<i>Lot F.</i>				
Dam 18:				
Tank and tower, complete.....			1,252.90	1,252.90
Weight of tank and tower not less than, pounds.....			17,250.00	-----
				1,252.90
<i>2.50</i>				
<i>2.80</i>				
<i>1.84</i>				
<i>1.24</i>				
<i>1.68</i>				
<i>1,793.00</i>				
<i>Lot G.</i>				
Dam 18:				
Drilling through loose material.....			2.50	125.00
Drilling through rock.....			2.80	700.00
Casing.....			1.84	92.00
Small air lift.....			1.24	372.00
Large air lift.....			1.68	504.00
				1,793.00
Cubic feet free air required per 100 cubic feet of water per 100 feet of lift.....			70	-----
<i>12.00</i>				
<i>1.75</i>				
<i>1,217.50</i>				
<i>Lot H.</i>				
Dam 18:				
Concrete.....			\$12.00	1,200.00
Excavation.....			1.75	17.50
				1,217.50

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(15) Duff Patents Co. (Incorporated), Pittsburg, Pa.		(16) J. & J. B. Milholand Co., Pittsburg, Pa.	
	Rate.	Amount.	Rate.	Amount.
<i>Lot C.</i>				
Dam 13:				
Gate winches.....			\$4,282	\$8,564.00
Gate jacks.....			2,000	2,000.00
River-wall jacks.....			1,960	1,960.00
Dam 18:				
Gate winches.....			4,350	8,700.00
Gate jacks.....			2,020	2,020.00
River-wall jacks.....			1,970	1,970.00
				25,214.00
<i>Lot E.</i>				
Dam 13, air tanks, 3,000 gallons.....	\$480	\$960.00		
Dam 18, air tanks, 1,000 gallons.....	265	1,590.00		
		2,550.00		
<i>Lot F.</i>				
Dam 18:				
Tank and tower, complete.....	1,130	1,130.00		
Weight of tank and tower not less than, pounds.....	17,225			
		1,130.00		
	(17) G. & W. Manufacturing Co., New York, N. Y.		(18) The E. A. Kinsey Co., Cincinnati, Ohio.	
	Rate.	Amount.	Rate.	Amount.
<i>Lot A.</i>				
Dam 13:				
Gas engines.....	\$10,000	\$20,000.00		
Auxiliaries.....	916	916.00		
Dam 18:				
Gas engines.....	10,000	20,000.00		
Auxiliaries.....	916	916.00		
		41,832.00		
Total consumption per brake horsepower not to exceed—British Thermal units at—				
Full load.....	12,000			
Three-quarter load.....	9,460			
Half load.....	6,900			
Total fuel consumption not to exceed—British Thermal units at no load.....				
	1,800			
<i>Lot B.</i>				
Dam 13, compressors.....	4,175	8,350.00		
Dam 18, compressors.....	4,175	8,350.00	^a \$1,791	\$3,582.00
		16,700.00	^a 1,791	3,582.00
				7,164.00
<i>Lot C.</i>				
Dam 13:				
Gate winches.....	2,900	5,800.00		
Gate jacks.....	2,300	2,300.00		
River-wall jacks.....	2,300	2,300.00		
Dam 18:				
Gate winches.....	2,900	5,800.00		
Gate jacks.....	2,300	2,300.00		
River-wall jacks.....	2,300	2,300.00		
		20,800.00		

^a Does not include installation.

Abstract of proposals for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, etc.—Cont'd.

	(19) Ingersoll-Rand Co., New York, N. Y.		(20) James Kinney, jr., Bellaire, Ohio.	
	Rate.	Amount.	Rate.	Amount.
<i>Lot B.</i>				
Dam 13, compressors.....	\$1,965	\$3,930.00	.....	.....
Dam 18, compressors.....	1,975	3,950.00	.....	.....
		7,880.00	.....	.....
Power per 100 cubic feet per minute not to exceed:				
When delivering air at 100 pounds per square inch pressure.....	18.60	.....	.....	.....
When delivering air at 50 pounds per square inch pressure.....	13.00	.....	.....	.....
Total horsepower not to exceed belt horsepower when unloaded.....	3.72	.....	.....	.....
<i>Lot G.</i>				
Dam 18:				
Drilling through loose material.....		\$2.50	\$125.00	
Drilling through rock.....		2.50	625.00	
Casing.....		.75	37.50	
Small air lift.....		1.15	345.00	
Large air lift.....		1.45	435.00	
			1,567.50	
Cubic feet free air required per 100 cubic feet of water per 100 feet of lift.....		430	.....

Nos. 1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, and 18 informal.

Nos. 1 (Lot A), 6 (Lot B), 8 (Lots C, D, and E), 15 (Lot F), and 20 (Lot G), recommended for acceptance.

Abstract of proposals for furnishing and delivering stone for Locks Nos. 9 and 10, Kanawha River, received in response to advertisement dated March 10, 1909, and opened at Charleston, W. Va., March 25, 1909, by Thos. E. Jeffries, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quan- tity.	(1) Williams & Javins, Charle- ston, W. Va.		(2) F. H. Sattes, St. Albans, W. Va.		(3) Thomas Y. Keeney, Dia- mond, W. Va. ^a	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Stone for Lock No. 9.....	Cu. yds.						
500	\$2.25	\$1,125.00	\$5.50	\$2,750	\$1.70	\$850	
Stone for Lock No. 10.....	500	2.25	1,125.00	5.50	2,750	1.70	850
Do.....	250	1.75	437.50	4.00	1,000	1.70	425
Total.....			2,687.50		6,500		2,125

^a Accepted.

Abstract of proposals for furnishing and delivering about 545,000 feet b. m. of hemlock lumber for Dam No. 26, Ohio River, received in response to advertisement dated March 16, 1909, and opened at Wheeling, W. Va., March 26, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	545,000 feet b. m. hemlock lumber.	
		Rate.	Amount.
1	Charleston Lumber Co., Charleston, W. Va.	\$30.00	\$16,350.00
2	Crescent Lumber Co., Pittsburg, Pa.	24.00	13,080.00
3	G. Elias & Bro., Buffalo, N. Y.	24.50	13,352.50

^a Accepted.

Abstract of proposals for furnishing and delivering about 2,400 tons of run-of-mine bituminous coal for Dam No. 26, Ohio River, received in response to advertisement dated April 3, 1909, and opened at Wheeling, W. Va., April 13, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) The Campbells Creek Coal Co., Cincinnati, Ohio. ^a		(2) Consumers Coal and Mining Co., Spillman, W. Va.		(3) Island Creek Coal Sales Co., Cincinnati, Ohio.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Coal:							
By river.....	Tons. 2,400	\$1.50 <i>b</i> 1.10	\$3,600 2,640				
By rail.....				\$1.35	\$3,240	\$1.55	\$3,720
Mine from which taken.....		Campbells Creek.		Camden.....		Island Creek.	
Location of mine.....		Putney, W. Va..		Spillman, W. Va.		Holden, W. Va.	

a Accepted.

b Plus freight.

Proposals for rail delivery rejected.

Abstract of proposals for furnishing and delivering about 9,000 barrels of American Portland cement for Dam No. 26, Ohio River, received in response to advertisement dated April 8, 1909, and opened at Wheeling, W. Va., April 23, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Cement, 9,000 barrels.		Brand.	Weight per barrel.	Allowance for sacks.
		Rate.	Amount.			
1	Alpha Portland Cement Co., Easton, Pa.	\$1.48	\$13,320.00	Alpha.....	380	<i>Cents.</i> 7½
2	The Miller Supply Co., Huntington, W. Va.	1.45	13,050.00	Lehigh.....	380	7½
3	The Superior Portland Cement Co., Cincinnati, Ohio.	1.40	12,600.00	Superior.....	375	7½
4	The Atlas Portland Cement Co., New York, N. Y.	1.5364	13,827.60	Atlas.....	380	7½
5	Lehigh Portland Cement Co., Cleveland, Ohio.	1.49	13,410.00	Lehigh.....	380	7½
6	The Cleveland Builders' Supply Co., Cleveland, Ohio.	1.42	12,780.00	Atlas.....	380	7½
7	The Edison Portland Cement Co., New York, N. Y.	1.48	13,320.00	Edison.....	<i>a</i> 376	7½
8	Universal Portland Cement Co., Pittsburgh, Pa.	1.47	13,230.00	Universal.....	<i>a</i> 376	10
9	The Ironton Portland Cement Co., Ironton, Ohio.	1.50	13,500.00	Limestone....	380	10

a Net.

b Recommended for acceptance.

All bids slightly informal.

Abstract of proposals for constructing 500 feet of navigable pass for Dam No. 19, Ohio River, received in response to advertisement dated March 27, 1909, and opened at Wheeling, W. Va., April 26, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) Jacob Eichel, Evansville, Ind.		(2) The Holler- bach & May Con- tract Co., Evans- ville, Ind. ^a	
		Rate.	Amount.	Rate.	Amount.
Common excavation.....	cubic yards..	25,000	\$1.20	\$30,000	\$1.50
Rock excavation.....	do.....	630	2.50	1,575	2.00
Oak timber.....	linear feet..	500	2.00	1,000	5.00
Concrete.....	cubic yards..	11,100	6.50	72,150	5.25
Structural steel.....	pounds..	43,900	.05	2,195	.04
Bolts, etc.....	do.....	7,900	.05	395	.04
Iron castings.....	do.....	147,000	.05	7,350	.04
Steel castings.....	do.....	54,200	.05	2,710	.04
Pipe, 4-inch.....	linear feet..	1,100	1.00	1,100	1.50
Total.....				118,475	111,305

^a Informal. Recommended for acceptance.

Abstract of proposals for furnishing and delivering iron castings for navigable pass, Dam No. 26, Ohio River, received in response to advertisement dated April 17, 1909, and opened at Wheeling, W. Va., April 27, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Iron castings, 173,000 pounds.	
		Rate.	Amount.
1	Sterrit-Thomas Foundry Co., Pittsburg, Pa.....	\$0.018	\$3,114.00
2	G. & W. Manufacturing Co., New York, N. Y.....	.0223	3,857.90
3	J. & J. B. Milholand Co., Pittsburg, Pa.....	.0185	3,200.50
4	Maysville Foundry and Engineering Co., Maysville, Ky.....	.0195	3,373.50
5	Atkinson Foundry and Car Shops, St. Albans, W. Va.....	.0193	3,338.90
6	The Aetna Foundry and Machine Co., Warren, Ohio.....	.01625	2,811.25
7	James H. Beans, Wheeling, W. Va.....	.016	2,768.00
8	Kanawha Mine Car Co., Charleston, W. Va.....	.0207	3,581.10
9	Chattanooga Car and Foundry Co., Chattanooga, Tenn.....	.01765	3,053.45

^a Accepted.

Delivery:

- No. 2, 100 by July 13, rest in 21 days.
- No. 4, first 100 by July 15.
- No. 5, begin before July 1.
- No. 8, 75 by July 15.
- No. 9, 100 by July 15, 50 more before September 1.

Abstract of proposals for furnishing and delivering steel and iron castings for navigable pass, Dam No. 26, Ohio River, received in response to advertisement dated April 22, 1909, and opened at Wheeling, W. Va., May 3, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Cast steel, 30,900 pounds.		Cast iron, 1,500 pounds.		Total.
		Rate.	Amount.	Rate.	Amount.	
1	Wheeling Mold and Foundry Co., Wheeling, W. Va.	\$0.0635	\$1,962.15	\$0.03	\$45.00	\$2,007.15
2	Faucus Machine Co., Pittsburgh, Pa.	.093	2,873.70	.038	57.00	2,930.70
3	Sterrit-Thomas Foundry Co., Pittsburgh, Pa.	.06	1,854.00	.03	45.00	1,899.00
4	H. M. Richardson Steel and Iron Co., Cincinnati, Ohio			.0325	48.75	48.75
5	Buffalo Foundry and Machine Co., Buffalo, N. Y.	.095	2,935.50	.0425	63.75	2,999.25
6	The Aetna Foundry and Machine Co., Warren, Ohio	.07	2,163.00	.0325	48.75	2,211.75
7	G. & W. Manufacturing Co., New York, N. Y.	.0589	1,820.01	.0223	33.45	1,853.46
a 8	Rosedale Foundry and Machine Co., Pittsburgh, Pa.	.058	1,792.20	.026	39.00	1,831.20
b 9	Pittsburgh Steel Foundry, Pittsburgh, Pa.					
10	J. & J. B. Milholland Co., Pittsburgh, Pa.	.062	1,915.80	.03	45.00	1,960.80

a Accepted.

b Informal.

Abstract of proposals for furnishing and delivering timber for lock and navigable pass, Dam No. 26, Ohio River, received in response to advertisement dated April 23, 1909, and opened at Wheeling, W. Va., May 4, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) The Parkersburg Mill Co., Parkersburg, W. Va.		(2) Mohler Lumber Co., Lock Seven, W. Va. ^a		(3) G. Elias & Bro., Buffalo, N. Y.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Lot A, oak timber:							
10" x 12"	2,300	\$34	\$78.20	\$19.50	\$44.85	\$31	\$71.30
10" x 14"	7,100	34	241.40	19.50	138.40	31	220.10
Total.			319.60		183.25		291.40
Lot B, oak timber:							
2" x 4"	5,500	34	187.00	19.50	107.25	31	170.50
11" x 12"	60,600	34	2,060.40	19.50	1,181.70	31	1,878.60
12" x 12"	66,100	34	2,247.40	19.50	1,238.95	31	2,049.10
Total.			4,494.80		2,577.90		4,098.20

Article.	Quantity.	(4) McClure Timber Co., Pittsburgh, Pa.		(5) Crescent Lumber Co., Pittsburgh, Pa.	
		Rate.	Amount.	Rate.	Amount.
Lot A, oak timber:					
10" x 12"	2,300	\$35	\$80.50	\$39.75	\$91.43
10" x 14"	7,100	35	248.50	39.75	282.22
Total.			329.00		373.65
Lot B, oak timber:					
2" x 4"	5,500	b 33	181.50	44.50	244.75
11" x 12"	60,600	33	1,999.80	44.50	2,696.70
12" x 12"	66,100	33	2,181.30	44.50	2,941.45
Total.			4,362.60		5,882.90

a Accepted.

b Price quoted on yellow pine.

c

Delivery:

No. 1, commence in 20 days; two-thirds in 60 days; complete in 90 days.

No. 2, when wanted.

No. 3, commence in 30 days; two-thirds in 45 days; complete in 60 days.

No. 4, commence in 12 days; two-thirds in 30 days; complete in 45 days.

No. 5, commence in 21 days; two-thirds in 42 days; complete in 56 days.

Abstract of proposals for furnishing and delivering structural steel, steel castings, bolts, etc., for lock and navigable pass, Dam No. 26, Ohio River, received in response to advertisement dated April 27, 1909, and opened at Wheeling, W. Va., May 6, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Structural steel, 40,200 pounds.		Cast steel, 25,800 pounds.		Bolts, etc., 5,900 pounds.		Total.	Com-mence-work.	Com-plete-de-liv-er-y.
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.			
1	Chas. Hegewald Co., New Albany, Ind.	\$0.0349	\$1,402.98	\$0.1099	\$2,835.42	\$0.0599	\$353.41	\$4,591.81	Days. 2	Days. 90
2	Aetna Foundry and Machine Co., Warren, Ohio.	.0348	1,398.96	.0645	1,664.10	.07	413.00	3,476.06		
3	J. & J. B. Milholland Co., Pittsburgh, Pa.	.032	1,236.40	.0425	1,036.50	.041	241.90	2,624.80	10	60
4	Penn Bridge Co., Beaver Falls, Pa.	.032	1,236.40	.094	2,425.20	.12	708.00	4,419.60	10	100
5	Serrit-Thomas Foundry Co., Pittsburg, Pa.	.0325	1,306.50	.055	1,419.00	.0325	191.75	2,917.25	10	90
6	Lawrence D. Weaning, Cleveland, Ohio.	.024	964.80	.07	1,806.00	.043	253.70	3,024.50	2	40
7	New Jersey Foundry and Machine Co., New York, N. Y.	.0374	1,503.48	.097	2,502.60	.047	277.30	4,233.38	10	110
8	H. M. Richardson Steel and Iron Co., Cincinnati, Ohio.					.0742	437.78	437.78	2	15
9	G. & W. Manufacturing Co., New York, N. Y.	.039	1,567.80	.059	1,522.20	.0323	190.57	3,230.57	5	60
b10	W. Bateson & Co., Wheeling, W. Va.	.025	1,005.00	.047	1,257.75	.06	354.00	2,616.75	10	50

a Informal.*b* Accepted.

Abstract of proposals for furnishing and delivering oak and hemlock timber for the Little Kanawha River improvement, received in response to advertisement dated April 26, 1909, and opened at Parkersburg, W. Va., May 6, 1909, by Wm. M. Hall, assistant engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	White-oak timber, 190,929 feet b. m.		Hemlock timber, 2,530 feet b. m.	
		Rate.	Amount.	Rate.	Amount.
a1	Abram Pearson, Elizabeth, W. Va.	\$25.00	\$4,773.23		
2	Jno. J. Shore, Parkersburg, W. Va.	28.00	5,346.01	\$28.00	\$70.84
3	Nicolette Lumber Co., Nicolette, W. Va.	24.20	4,620.48	24.20	61.23
4	American Lumber and Manufacturing Co., Pittsburg, Pa.	30.00	5,727.87	30.00	75.90
b5	Parkersburg Mill Co., Parkersburg, W. Va.	24.00	4,582.30	24.00	60.72

a Informal.*b* Accepted.

Delivery:
No. 1, on United States barges.
Nos. 2 and 4, on incline track at Parkersburg, W. Va.
No. 3, on government barges at Nicolette, W. Va.
No. 5, on government barges at Parkersburg, W. Va.

Abstract of proposals for hire of elevator dredge (sand digger) for Dam No. 26, Ohio River, received in response to advertisement dated April 29, 1909, and opened at Hogsett, W. Va., May 6, 1909, by R. C. Cutting, junior engineer, for Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Rent of elevator dredge.
		Per day.
1	Coraopolis Industrial Co., Coraopolis, Pa.	\$58
2	Parkersburg and Marietta Sand Co., Parkersburg, W. Va.	a 50

a When dredge is operated over 8 hours per day an extra charge of \$15 per day will be added.

All bids rejected.

Abstract of proposals for furnishing and delivering structural steel, castings, etc., for valves for lock, Dam No. 26, Ohio River, received in response to advertisement dated April 28, 1909, and opened at Wheeling, W. Va., May —, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address.	41,000 pounds structural steel.		7,000 pounds steel castings.		25,200 pounds iron castings.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
1	Penn Bridge Co., Beaver Falls, Pa.	3.19	\$1,307.90	7.2	\$504.00	4.45	\$1,121.40
2	Thomas Carlin's Sons Co., Pittsburgh, Pa.	2.95	1,209.50	9½	665.00	2½	724.50
3	The Jarvis Machinery and Supply Co., Huntington, W. Va.	4.6	1,886.00	7.6	532.00	4.25	1,071.00
4	Sterrit-Thomas Foundry Co., Pittsburgh, Pa.	3	1,230.00	6½	455.00	3	756.00
5	Chas. Hegewald Co., New Albany, Ind.	3.99	1,635.90	9.99	699.30	4.99	1,257.48
6	J. & J. B. Milholland Co., Pittsburgh, Pa.	3.2	1,312.00	6	420.00	2.5	630.00
7	New Jersey Foundry and Machine Co., New York, N. Y.	5.05	2,070.50	15.2	1,064.00	12.4	3,124.80
8	G. & W. Manufacturing Co., New York, N. Y.	3.93	1,611.30	5.9	413.00	3.47	874.44
9	Seale Foundry and Machine Co. (Limited), Pittsburgh, Pa.	5.2	2,132.00	10½	735.00	5.2	1,310.40
10	W. Bateson & Co., Wheeling, W. Va.	3.1	1,271.00	5.1	357.00	2	504.00
11	The Baldt Steel Co., New Castle, Del.			18	1,260.00		

No.	Name and address.	40 pounds bronze.		330 pounds babbitt.		6,000 pounds bolts.		Total.
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	
1	Penn Bridge Co., Beaver Falls, Pa.	Cents. 50	\$20.00	Cents. 20	\$66.00	Cents. 2.75	\$165.00	\$3,184.30
2	Thomas Carlin's Sons Co., Pittsburgh, Pa.	44	17.60	35	115.50	3½	217.50	2,949.60
3	The Jarvis Machinery and Supply Co., Huntington, W. Va.	35	14.00	25	82.50	4	240.00	3,825.50
4	Sterrit-Thomas Foundry Co., Pittsburgh, Pa.	20	8.00	20	66.00	2.6	156.00	2,671.00
5	Chas. Hegewald Co., New Albany, Ind.	34.99	14.00	19.99	65.96	4½	299.40	3,972.04
6	J. & J. B. Milholland Co., Pittsburgh, Pa.	40	16.00	18	59.40	3.1	186.00	2,623.40
7	New Jersey Foundry and Machine Co., New York, N. Y.	50½	20.20	22.3	73.59	6½	405.00	6,758.09
8	G. & W. Manufacturing Co., New York, N. Y.	40	16.00	17	56.10	3.23	193.80	3,164.64
9	Seale Foundry and Machine Co. (Limited), Pittsburgh, Pa.	25	10.00	25	82.50	4	240.00	4,509.90
10	W. Bateson & Co., Wheeling, W. Va.	19	7.60	28	92.40	3.2	192.00	2,424.00
11	The Baldt Steel Co., New Castle, Del.							

a Accepted.

Abstract of proposals for furnishing and delivering about 13,000 barrels of American Portland cement for Dam No. 19, Ohio River, received in response to advertisement dated April 14, 1909, and opened at Wheeling, W. Va., May 14, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Cement, 13,000 barrels.		Brand.	Weight per barrel.
		Rate.	Amount.		
1	Alpha Portland Cement Co., Easton, Pa.	\$1.33	\$17,290.00	Alpha.....	375
2	The Atlas Portland Cement Co., New York, N. Y.	1.3775	17,907.50	Atlas.....	380
3	F. P. Jones Co., Wheeling, W. Va.	1.37	17,810.00	Lehigh.....	380
4	The Superior Portland Cement Co., Cincinnati, Ohio.	1.32	17,160.00	Superior.....	375
5	Lehigh Portland Cement Co., Cleveland, Ohio.	1.43	18,590.00	Lehigh.....	375
6	The Miller Supply Co., Huntington, W. Va.	1.3775	17,907.50	do.....	380
7	Alma Cement Co., Wellston, Ohio.	1.35	17,550.00	Alma.....	380
8	Universal Portland Cement Co., Pittsburgh, Pa.	1.38	17,940.00	Universal.....	380

a Recommended for acceptance.

Nos. 1, 3, 4, 5, 6, 7, and 8 informal.

Abstract of proposals for furnishing and delivering structural steel, forgings, castings, bolts, etc., for Dam No. 26, Ohio River, received in response to advertisement dated May 6, 1909, and opened at Wheeling, W. Va., on May 17, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address.	Lot A.			Lot B.				
		385,000 pounds, horses and props.		Begin.	Com- plete.	126,000 pounds, structural steel.		17,700 pounds, forgings.	
		Rate.	Amount.	Days.		Rate.	Amount.	Rate.	
1	American Bridge Co. of New York, Pittsburg, Pa.	Cents. 3.15	\$12,127.50	90	105	Cents. 2	\$2,520.00	Cents. 5½	\$929.25
2	Sterrit-Thomas Foundry Co., Pittsburg, Pa.	4.47	17,209.50	-----	120	2	2,520.00	4.67	826.59
3	New Jersey Foundry and Machine Co., New York, N. Y.	-----	-----	-----	-----	2.24	2,822.40	7.5	1,327.50
4	W. N. Kratzer & Co., Pittsburg, Pa.	5½	20,212.50	60	90	2	2,520.00	7½	1,283.25
5	Heppenstall Forge and Knife Co., Pittsburg, Pa.	3.74	14,399.00	60	90	2½	3,150.00	6	1,062.00
6	Lawrence D. Weaning, Cleveland, Ohio	4	15,400.00	60	90	2	2,520.00	5	885.00
7	J. Edward Ogden, New York, N. Y.	-----	-----	-----	-----	4.46	5,619.60	4.46	789.42
8	J. & J. B. Milholland Co., Pittsburg, Pa.	4.32	16,632.00	10	90	1.96	2,469.60	4.5	796.50
9	Chas. Hegewald Co., New Albany, Ind.	5.999	23,096.15	40	125	3.249	4,093.74	5.499	973.32
10	Rosedale Foundry and Machine Co., Pittsburg, Pa.	5.6	21,560.00	10	90	-----	-----	-----	-----
11	G. & W. Manufacturing Co., New York, N. Y.	5.13	19,750.50	5	Sept. 1	2.43	3,061.80	5.9	1,044.30

No.	Name and address.	Lot B.				Total.	Begin.	
		16,000 pounds cast steel.		25,000 pounds, bolts, rivets, etc.			Com- plete.	
		Rate.	Amount.	Rate.	Amount.		Days.	
1	American Bridge Co. of New York, Pittsburg, Pa.	Cents. 3.7	\$592.00	Cents. 2½	\$625.00	\$4,666.25	45	60
2	Sterrit-Thomas Foundry Co., Pittsburg, Pa.	4.67	747.20	4.67	1,167.50	5,261.29	-----	60
3	New Jersey Foundry and Machine Co., New York, N. Y.	6.7	1,072.00	2.36	590.00	5,811.90	30	45
4	W. N. Kratzer & Co., Pittsburg, Pa.	6	960.00	3	750.00	5,513.25	30	90
5	Heppenstall Forge and Knife Co., Pittsburg, Pa.	8½	1,360.00	2½	625.00	6,197.00	20	45
6	Lawrence D. Weaning, Cleveland, Ohio	8½	1,320.00	2½	562.50	5,287.50	20	30
7	J. Edward Ogden, New York, N. Y.	5	800.00	2.3	575.00	7,784.02	15	35
8	J. & J. B. Milholland Co., Pittsburg, Pa.	4.6	736.00	2.07	517.50	4,519.60	10	30
9	Chas. Hegewald Co., New Albany, Ind.	9.99	1,598.40	4	1,000.00	7,665.46	40	125
10	Rosedale Foundry and Machine Co., Pittsburg, Pa.	-----	-----	-----	-----	-----	-----	-----
11	G. & W. Manufacturing Co., New York, N. Y.	6.49	1,038.40	2.9	725.00	5,869.50	5	July 1

No. 10 informal.

No. 1 accepted for Lot A.

No. 8 accepted for Lot B.

Abstract of proposals for furnishing and delivering structural steel, forgings, bolts, etc., for lock for Dam No. 26, Ohio River, received in response to advertisement dated May 8, 1909, and opened at Wheeling, W. Va., May 18, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Structural steel (51,800 pounds).		Forgings (13,700 pounds).		Bolts, etc., (1,400 pounds).		Signal masts (2).		Total.
		Rate.	Amt.	Rate.	Amt.	Rate.	Amt.	Rate.	Amt.	
1	Penn Bridge Co., Beaver Falls, Pa.	\$0.023	\$1,191.40	\$0.0315	\$431.55	\$0.0275	\$38.50	\$1.00	\$2.00	\$1,663.45
2	New Jersey Foundry and Machine Co., New York, N. Y.	.039	2,020.20	.052	712.40	.052	72.80	1.00	2.00	2,807.40
3	Lawrence D. Weaning, Cleveland, Ohio.	.0225	1,165.50	.0275	376.75	.0475	66.50	1.00	2.00	1,610.75
4	Sterrit-Thomas Foundry Co., Pittsburgh, Pa.	.05	2,590.00	.05	685.00	.05	70.00	1.00	2.00	3,347.00
5	J. & J. B. Milholland Co., Pittsburgh, Pa.	.03	1,554.00	.04	548.00	.0225	31.50	1.00	2.00	2,135.50
6	G. & W. Manufacturing Co., New York, N. Y.	.059	3,056.20	.073	1,000.10*	.05	70.00	.95	1.90	4,128.20
7	W. Bateson & Co., Wheeling, W. Va.	.035	1,813.00	.04	548.00	.03	42.00	4.00	8.00	2,411.00

Time of delivery:

No. 1. Commence in 10 days; complete in 60 days.
 No. 2. Commence in 45 days; complete in 60 days.
 No. 3. Commence in 10 days; complete in 45 days.
 No. 4. Complete in 60 days.
 No. 5. Commence in 10 days; complete in 50 days.
 No. 6. Commence in 5 days; complete in 60 days.
 No. 7. Commence in 10 days; complete in 50 days.

No. 3 accepted.

Abstract of proposals for furnishing and delivering structural steel for lock for Dam No. 26, Ohio River, received in response to advertisement dated May 13, 1909, and opened at Wheeling, W. Va., May 24, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Structural steel (162,000 pounds).		Rivets (1,330 pounds).		Bolts, etc. (2,220 pounds).		Total.	Com- mence work.	Com- mence deliv- ery.
		Rate.	Amt.	Rate.	Amt.	Rate.	Amt.			
1	J. & J. B. Milholland Co., Pittsburgh, Pa.	\$0.0269	\$4,357.80	\$0.0323	\$42.96	.....	.....	.....	10	45
2	W. N. Kratzer & Co., Pittsburgh, Pa.	.0245	3,969.00	.0306	47.88	\$0.0306	\$79.92	\$4,096.80	30	50
3	New Jersey Foundry and Machine Co., New York, N. Y.	.0279	4,519.80	.0279	37.10	.0279	61.94	4,618.84	45	90
4	American Bridge Co. of New York, Pittsburgh, Pa.	.026	4,212.00	.021	27.93	.023	51.06	4,290.99	60	75
5	Penn Bridge Co., Beaver Falls, Pa.	.0218	3,531.60	.0195	25.94	.027	59.94	3,617.48	15	30
6	Sterrit-Thomas Foundry Co., Pittsburgh, Pa.	.0235	3,807.00	.0235	31.26	.0235	52.17	3,890.43	.....	60
7	Brackett Bridge Co., Cincinnati, Ohio.	.0297	4,811.40	.035	46.55	.035	77.70	4,935.65	30	57
8	W. Bateson & Co., Wheeling, W. Va.	.0295	4,779.00	.0235	31.26	.0325	72.15	4,882.41	10	60

No. 1 informal.

No. 5 accepted.

Abstract of proposals for constructing abutment, piers, and weirs for Dam No. 11, Ohio River, received in response to advertisement dated May 10, 1909, and opened at Wheeling, W. Va., June 8, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) The Hollerbach & May Contract Co., Evansville, Ind.		(2) The H. E. Talbott Co., Dayton, Ohio.	
		Rate.	Amount.	Rate.	Amount.
Excavation.....	cubic yards..	28,000	\$0.90	\$25,200	\$1.00
Fill.....	cubic yards..	2,200	.75	1,650	1.00
Riprap.....	cubic yards..	9,000	3.00	27,000	4.00
Round piles.....	linear feet..	20,000	.60	12,000	.70
Sheet piles.....	feet b. m..	181,000	80.00	14,480	100.00
Sheeting, 4-inch.....	feet b. m..	17,000	70.00	1,190	80.00
Common timber.....	feet b. m..	218,000	80.00	17,440	85.00
Deck timber.....	feet b. m..	84,000	80.00	6,720	100.00
Oak timber.....	feet b. m..	49,000	100.00	4,900	120.00
Yellow-pine timber.....	feet b. m..	35,000	100.00	3,500	100.00
Concrete.....	cubic yards..	9,200	7.00	64,400	9.00
Structural steel.....	pounds..	720,000	.08	57,600	.08
Reenforcing rods.....	pounds..	29,000	.05	1,450	.06
Forgings.....	pounds..	71,000	.06	4,260	.07
Bolts, etc.....	pounds..	66,000	.05	3,300	.07
Iron castings.....	pounds..	72,000	.05	3,600	.06
Steel castings.....	pounds..	108,000	.08	8,640	.08
Bronze.....	pounds..	1,100	.40	440	.40
Pipe, 3-inch.....	linear feet..	1,600	1.00	1,600	.75
Pipe, 1½-inch.....	linear feet..	900	1.00	900	.75
Flanged tees, 3-inch.....		4	10.00	40	5.00
Flanged long-radius elbows, 3-inch.....		20	5.00	100	6.00
Companion flanges, 3-inch.....		32	2.00	64	2.00
Companion flanges, 1½-inch.....		8	1.00	8	2.00
Globe valves, 3-inch.....		6	10.00	60	17.50
Cocks, 2-inch.....		6	1.00	6	7.00
Expansion joints.....		6	10.00	60	25.00
Drip pockets.....		3	30.00	90	40.00
Total.....				260,698	303,612

Article.	Quantity.	(3) The Dravo Contracting Co., Pittsburgh, Pa.		(4) The Ohio River Contract Co., Evansville, Ind.		(5) The T. A. Gillespie Co., Pittsburgh, Pa.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Excavation.....	cubic yards..	28,000	\$1.20	\$33,600.00	\$1.25	\$35,000	\$1.50
Fill.....	cubic yards..	2,200	.50	1,100.00	.75	1,650	1.10
Riprap.....	cubic yards..	9,000	3.00	27,000.00	3.00	27,000	3.00
Round piles.....	linear feet..	20,000	.90	18,000.00	.40	8,000	.62
Sheet piles.....	feet b. m..	181,000	120.00	21,720.00	125.00	22,625	85.00
Sheeting, 4-inch.....	feet b. m..	17,000	70.00	1,190.00	80.00	1,360	75.00
Common timber.....	feet b. m..	218,000	80.00	17,440.00	72.00	15,696	60.00
Deck timber.....	feet b. m..	84,000	90.00	7,560.00	82.00	6,888	60.00
Oak timber.....	feet b. m..	49,000	120.00	5,880.00	100.00	4,900	100.00
Yellow-pine timber.....	feet b. m..	35,000	120.00	4,200.00	80.00	2,800	100.00
Concrete.....	cubic yards..	9,200	8.00	73,600.00	5.75	52,900	5.00
Structural steel.....	pounds..	720,000	.07 ² ₃	55,800.00	.07 ² ₃	51,840	.07
Reenforcing rods.....	pounds..	29,000	.04	1,160.00	.05	1,450	.04
Forgings.....	pounds..	71,000	.07 ² ₃	5,502.50	.07	4,970	.07
Bolts, etc.....	pounds..	66,000	.07 ² ₃	5,115.00	.07	4,620	.04
Iron castings.....	pounds..	72,000	.07 ² ₃	5,580.00	.07	5,040	.05
Steel castings.....	pounds..	108,000	.07 ² ₃	8,370.00	.07	7,560	.09
Bronze.....	pounds..	1,100	.55	605.00	.50	550	1.00
Pipe, 3-inch.....	linear feet..	1,600	1.20	1,920.00	1.00	1,600	1.00
Pipe, 1½-inch.....	linear feet..	900	.50	450.00	.75	675	.80
Flanged tees, 3-inch.....		4	6.00	24.00	10.00	40	5.00
Flanged long-radius elbows, 3-inch.....		20	7.25	145.00	9.00	180	6.00
Companion flanges, 3-inch.....		32	1.00	32.00	1.50	48	6.00
Companion flanges, 1½-inch.....		8	.75	6.00	1.25	10	2.00
Globe valves, 3-inch.....		6	25.00	150.00	24.00	144	20.00
Cocks, 2-inch.....		6	9.00	54.00	9.00	54	6.00
Expansion joints.....		6	8.00	48.00	9.00	54	8.00
Drip pockets.....		3	12.00	36.00	15.00	45	25.00
Total.....				296,287.50		257,699	249,537

Nos. 1, 2, 3, and 5 informal.

No. 5 recommended for acceptance.

Abstract of proposals for furnishing and delivering structural steel for Dam No. 18, Ohio River, received in response to advertisement dated May 28, 1909, and opened at Wheeling, W. Va., June 9, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Structural steel.		Bolts and washers.		Total.
		Rate.	Amount.	Rate.	Amount.	
1	Sterrit-Thomas Foundry Co., Pittsburg, Pa.	\$0.04	\$904.00	\$0.04	\$17.00	\$921.00
2	J. & J. B. Milholland Co., Pittsburg, Pa.	.031	700.60	.064	27.20	727.80
3	Penn Bridge Co., Beaver Falls, Pa.	.0258	583.08	.059	25.08	608.16
4	New Jersey Foundry and Machine Co., New York, N. Y.	.0378	854.28	.0378	16.07	870.35
5	American Bridge Co. of New York, Pittsburg, Pa.	.0274	619.24	.036	15.30	634.54
6	G. & W. Manufacturing Co., New York, N. Y.	.09	2,034.00	.078	33.15	2,067.15
7	W. N. Kratzer & Co., Pittsburg, Pa.	.0265	598.90	.06	25.50	624.40

No. 3 accepted.

Abstract of proposals for furnishing and delivering timber for Dam No. 18, Ohio River, received in response to advertisement dated June 2, 1909, and opened at Wheeling, W. Va., June 12, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) The Parkersburg Mill Co., Parkersburg, W. Va.	(2) McClure Timber Co., Pittsburg, Pa.		(3) Licking River Lumber Co., Ashland, Ky.		(4) G. Elias & Bro., Buffalo, N. Y.		
		Rate per 1,000 feet.	Amt.	Rate per 1,000 feet.	Amt.	Rate per 1,000 feet.	Amt.	Rate per 1,000 feet.	Amt.
Timber:	Ft. b. m.								
White oak.....	27,300	\$40	\$1,092.00	\$29	\$791.70	\$31	\$846.30	\$32	\$873.60
Yellow pine.....		38	1,037.40	25	682.50	.....	.....	28	764.40

No. 2 accepted for yellow pine.

Abstract of proposals for constructing abutment, piers, and weirs for Dam No. 8, Ohio River, received in response to advertisement dated May 17, 1909, and opened at Wheeling, W. Va., June 16, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

Article.	Quantity.	(1) The H. E. Talbott Co., Dayton, Ohio.		(2) The Ohio River Contract Co., Evansville, Ind.		(3) The Hollerbach & May Contract Co., Evansville, Ind.		(4) The T. A. Gillespie Company, Pittsburgh, Pa.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Common excavation, cu. yd.....	\$24,000	\$1.20	\$28,800.00	\$1.40	\$33,600.00	\$0.70	\$16,800.00	\$1.20	\$28,800.00
Rock excavation, cu. yd.....	300	2.00	600.00	2.00	600.00	4.00	1,200.00	2.00	600.00
Fill.....do.....	2,500	1.20	3,000.00	.75	1,875.00	.75	1,875.00	.90	2,250.00
Riprap.....lin. ft.....	8,000	4.00	32,000.00	3.00	24,000.00	3.00	24,000.00	4.20	33,600.00
Round piles.....lin. ft.....	17,000	.70	11,900.00	.60	10,200.00	.50	8,500.00	.70	11,900.00
Sheet piles.....ft. b. m.....	125,000	\$0.80	10,000.00	\$100.00	12,500.00	\$0.80	10,000.00	\$105.00	13,125.00
Sheeting, 4-inch.....do.....	18,000	\$0.80	1,440.00	\$60.00	1,080.00	\$0.60	1,080.00	\$105.00	1,890.00
Common timber.....do.....	181,000	\$0.90	16,290.00	\$67.50	12,217.50	\$0.67	12,217.50	\$0.90	16,290.00
Deck timber.....do.....	88,000	\$110.00	9,680.00	\$67.50	5,940.00	\$0.67	5,940.00	\$100.00	8,800.00
Oak timber.....do.....	63,000	\$100.00	6,300.00	\$100.00	6,300.00	\$0.90	6,300.00	\$120.00	7,560.00
Yellow-pine timber do.....	35,000	\$100.00	3,500.00	\$100.00	3,500.00	\$0.90	3,500.00	\$120.00	4,200.00
Concrete.....cu. yd.....	11,000	8.50	93,500.00	5.00	55,000.00	7.00	77,000.00	8.60	94,600.00
Structural steel.....lb.....	760,000	.07	53,200.00	.07	53,200.00	.05	38,000.00	.05	60,800.00
Reenforcing rods.....do.....	29,000	.05	1,450.00	.04	1,160.00	.05	1,450.00	.06	1,740.00
Forgings.....do.....	111,000	.07	7,770.00	.07	7,770.00	.05	5,550.00	.06	6,660.00
Bolts, etc.....do.....	66,000	.07	4,620.00	.06	3,960.00	.05	3,300.00	.07	4,620.00
Iron castings.....do.....	87,000	.07	6,090.00	.07	6,090.00	.05	4,350.00	.07	6,090.00
Steel castings.....do.....	119,000	.07	8,330.00	.07	8,330.00	.05	5,950.00	.08	9,520.00
Bronze.....do.....	1,100	.40	440.00	.85	935.00	.50	550.00	1.00	1,100.00
Pipe, 3-inch.....lin. ft.....	1,800	1.00	1,800.00	1.00	1,800.00	1.00	1,800.00	1.00	1,800.00
Pipe, 1½-inch.....do.....	1,100	1.00	1,100.00	.75	825.00	1.00	1,100.00	1.00	1,100.00
Flanged tees, 3-inch.....No.....	4	5.00	20.00	7.50	30.00	7.50	30.00	5.00	20.00
Flanged long-radius elbows, 3-inch.....No.....	20	5.00	100.00	7.50	150.00	5.00	100.00	6.00	120.00
Companion flanges, 3-inch.....No.....	32	5.00	160.00	1.50	48.00	2.00	64.00	6.00	192.00
Companion flanges, 1½-inch.....No.....	8	4.00	32.00	1.00	8.00	1.00	8.00	2.00	16.00
Globe valves, 3-inch.....do.....	6	15.00	90.00	20.00	120.00	15.00	90.00	20.00	120.00
Cocks, 2-inch.....do.....	6	6.00	36.00	7.50	45.00	5.00	30.00	6.00	36.00
Expansion joints, 3-inch, No.....	6	25.00	150.00	7.50	45.00	10.00	60.00	8.00	48.00
Drip pockets.....No.....	3	40.00	120.00	7.50	22.50	30.00	90.00	30.00	90.00
Total.....			302,518.00		251,351.00		229,954.50		317,687.00

Nos. 1, 3, and 4 informal.

No. 3 recommended for acceptance.

Abstract of proposals for dredging at Dam No. 13, Ohio River, received in response to advertisement dated May 28, 1909, and opened at Wheeling, W. Va., June 28, 1909, by Capt. F. W. Altstaetter, Corps of Engineers.

No.	Name and address of bidder.	Dredging (50,000 cubic yards).	
		Rate.	Amount.
1	Monongahela and Western Dredging Co., Pittsburg, Pa.....	\$0.13	\$6,500
2	The Ohio River Contract Co., Evansville, Ind.....	.19	9,500

Nos. 1 and 2 informal.

No. 1 recommended for acceptance.

LOUISVILLE (KY.) DISTRICT.

[Officer: Lieut. Col. J. G. Warren, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for concrete walls, etc., at lock and dam at Grand Rapids, Wabash River, received in response to advertisement dated April 1, 1909, and opened at United States Engineer Office, Louisville, Ky., May 1, 1909.

Items.	Quantities.	(1) Ohio River Contract Co., Evansville, Ind.		(2) The Ohio Concrete Co., Cincinnati, Ohio.	
		Unit price.	Total.	Unit price.	Total.
Concrete	cubic yards..	1,297	\$19.00	\$24,643.00	\$12.25
Rock excavation	Nominal.	1.75	1.75	3.50	3.50
Crib excavation	cubic yards..	3,782	2.50	9,455.00	.78
Earth excavation	do	2,936	1.50	4,404.00	.78
Embankment	do	881	1.00	881.00	.78
Back fill	do	1,462	1.00	1,462.00	.78
Dredging	do	7,000	1.00	7,000.00	.78
Stone filling (dam)	do	800	1.00	800.00	1.20
Stone filling (walls)	do	1,207	3.00	3,621.00	1.20
Total amount of bid			52,267.75		30,827.73
Items.		(3) Knobloch & Shelton, Erie, Pa.	(4) Roetzel & Chapman, Evansville, Ind.	(5) Mason & Hammer Co., Richmond, Ky.	
		Unit price.	Total.	Unit price.	Total.
Concrete	\$13.95	\$18,093.15	\$11.25	\$14,591.25	\$16.00
Rock excavation	3.00	3.00	3.00	3.00	3.50
Crib excavation	1.34	5,067.88	.40	1,512.80	2.00
Earth excavation .....	.64	1,879.04	.35	1,027.60	1.00
Embankment .....	.55	484.55	.35	308.35	.70
Back fill .....	.37	540.94	.20	292.40	.70
Dredging .....	.37 $\frac{1}{2}$	2,625.00	.50	3,500.00	.70
Stone filling (dam) .....	.97	776.00	.25	200.00	2.00
Stone filling (walls)	2.07	2,498.49	.55	663.85	2.50
Total amount of bid		31,968.05		a 22,099.25	42,413.10

^a Accepted.

DULUTH (MINN.) DISTRICT.

[Officer: Lieut. Col. Graham D. Fitch, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids received at Duluth, Minn., in response to public notice and opened June 21, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for dredging Duluth-Superior Harbor.

No.	Name and address of bidder.	Price per cubic yard (scow measurement).
1	Great Lakes Dredge and Dock Co., Chicago, Ill.	14 $\frac{1}{2}$
2	Zenith Dredge Co., Duluth, Minn.	14
a 3	Duluth-Superior Dredging Co., Duluth, Minn.	13 $\frac{1}{2}$

^a Accepted.

Abstract of bids received in response to public notice and opened June 17, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for furnishing and delivering at Ontonagon, Mich., 45,867 feet b. m.

No.	Name and address of bidder.	Price per thousand feet b. m.
1	Ontonagon Lumber and Cedar Co., Ontonagon, Mich.	\$20
a 2	Greenwood Lumber Co., Ontonagon, Mich.:	
	Wall timbers.....	15
	Ties.....	18
	Deck.....	14

a Accepted.

Abstract of bids received in response to public notice and opened May 5, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for sawing government logs on the west bank of the canal above Lily Pond harbor of refuge.

[Approximate amount, 116,611 feet b. m.]

No.	Name and address of bidder.	Price per thousand feet b. m.
1	Marx Brothers, Hancock, Mich.	\$7.00
a 2	Jas. W. Cleaver, Hancock, Mich.	4.50

a Accepted.

Abstract of proposals received in response to advertisement and opened June 8, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, at Duluth, Minn., for furnishing riprap at Ashland, Wis.

No.	Name and address of bidder.	Division A.—Sandstone, granite, or trap.	Division B.—Granite or trap.
		Per ton.	Per ton.
a 1	Alexander Sang, Duluth, Minn.	\$1.05	\$2.10
2	Whitney Brothers Co., Superior, Wis.	1.25	2.50

a Acceptance recommended.

Abstract of proposals received in response to advertisement and opened June 7, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, at Duluth, Minn., for furnishing stone and pebbles for Superior Entry, Wis.

[Approximate quantities, more or less, 33,782 tons stone; 14,495 tons gravel.]

Name and address of bidder.	(1) Superior Crushed Rock Co., Superior, Wis.	(2) Whitney Bros. Co., Superior, Wis.
For stone delivered in the work: Price per ton of 2,000 pounds.....		\$1.75
For gravel delivered in the work: Price per ton of 2,000 pounds.....		
For stone delivered f. o. b. cars on dock, Superior or Duluth: Price per ton of 2,000 pounds.....	\$1.65	
For gravel delivered f. o. b. cars on dock, Superior or Duluth: Price per ton of 2,000 pounds.....		
For stone delivered in stock pile on dock, Superior or Duluth: Price per ton of 2,000 pounds.....	1.75	
For gravel delivered in stock pile on dock, Superior or Duluth: Price per ton of 2,000 pounds.....		1.25
For delay in unloading stone or gravel, if delivered under (a) paragraph 21 of specifications as specified: Per ton of 2,000 pounds.....		.40

All bids too high.

Abstract of bids received at Duluth, Minn., in response to public notice and opened June 4, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for dredging in Portage Lake Ship Canals, Mich.

No.	Name and address of bidder.	Price per cubic yard.
a 1	Northern Dredge and Dock Co., Duluth, Minn.	24 $\frac{1}{2}$
		Cents.
		24 $\frac{1}{2}$

a Accepted.

Abstract of bids received at Duluth, Minn., in response to public notice and opened May 3, 1909, by Lieut. Col. Graham D. Fitch, at Duluth, Minn., for furnishing 400 cubic yards of rock for government piers at Grand Marais, Mich.

[Appropriation: Harbor of Refuge at Grand Marais, Mich.]

No.	Name and address of bidder.	Per cubic yard-delivered in pier.
a 1	W. A. Barney, Grand Marais, Mich.	\$1.35
2	J. F. Chisholm, Grand Marais, Mich.	2.20
3	W. C. Davidson, Grand Marais, Mich.	1.67

a Accepted.

Abstract of bids received at Duluth, Minn., in response to above public notice, and opened April 15, 1909, by Lieut. Col. Graham D. Fitch, for furnishing a steam tug with crew, fuel, and all equipment, for work at Superior Entry, Wis.

No.	Name and address of bidder.	Tug.	Price per hour for actual time worked.
a 1	Jeffery Bros., Duluth, Minn.	Tempest.....	\$3.50
2	Jeffery Bros., Duluth, Minn.	Gillette.....	4.00
3	Jas. Swan, Superior, Wis.	Maud S.....	3.50
4	John Shea, Duluth, Minn.	Crosby.....	4.00

a Accepted.

Abstract of bids received at Duluth, Minn., in response to public notice, and opened April 13, 1909, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for dredging at Port Wing, Wis., and Ontonagon, Mich.

No.	Name and address of bidder.	For dredging both jobs, per cubic yard, scow measurement.		In case but one job is awarded, per cubic yard, scow measurement.	
		Port Wing.	Ontonagon.	Port Wing.	Ontonagon.
1	Duluth Marine Contracting Co., Duluth, Minn.	Cents. 24	Cents. 24	Cents. 24	Cents. 24
2	Zenith Dredge Co., Duluth, Minn.	19	20	(a)	(a)
3	Northern Dredge and Dock Co., Duluth, Minn.	17 $\frac{3}{4}$	17 $\frac{9}{10}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$

a No bid.

b Accepted for both jobs.

Abstract of bids opened by Lieut. Col. Graham D. Fitch, Corps of Engineers, Duluth, Minn., February 15, 1909, in response to advertisement dated January 15, 1909, for furnishing and delivering piling floating in water at Superior Entry, Duluth-Superior Harbor.

No.	Name and address of bidder.	134,620 linear feet of piles, more or less, delivered in water at Superior Entry.	Total.
<i>a</i> 2	Duluth Log Co., Duluth, Minn.		
	A. J. Macdonald, Superior, Wis.:		
	48-foot piles.	.15	
	50-foot piles.	.17 $\frac{1}{2}$	
	52-foot piles.	.18	
	54-foot piles.	.18	23,757.90
	56-foot piles.	.18	
	58-foot piles.	.20	
3	Zenith Cedar Co., Duluth, Minn.	.16 $\frac{1}{2}$	22,212.30
4	Martin Bros., Duluth, Minn.	.16 $\frac{3}{4}$	22,548.85
5	Lake Superior Piling Co., Duluth, Minn.	.18	24,231.60
<i>b</i> 6	J. H. Younker, Ashland, Wis.	.13 $\frac{1}{2}$	18,173.70
7	The Virginia and Rainy Lake Co., Duluth, Minn.	.19	25,577.80

a Bid irregular.

b Accepted.

Abstract of letter bids received in response to public notice for cutting and delivering government logs at the upper entrance, Portage Lake Ship Canals, Mich., and opened by Lieut. Col. Graham D. Fitch, Corps of Engineers, at Houghton, Mich., December 17, 1908.

No.	Name and address of bidder.	Per thousand feet B. M.
1	Fred C. Sollman, Hancock, Mich.	\$4.75
2	Alex Olson, Oskar, Mich.	4.85
3	Charles Hoffman, Hancock, Mich.	7.00
4	Frank Eilola, Oskar, Mich.	4.50
5	Onesine Peppin, Hancock, Mich.	5.00
6	Peter Poisson, Hancock, Mich.	4.90
<i>a</i> 7	Charles A. Tucker, Hancock, Mich.	4.25

a Accepted.

Abstract of bids received at Duluth, Minn., and opened October 2, 1908, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for furnishing a dredging plant for removing small rock at Superior Entry, Wis.

[About 100 hours' work.]

No.	Name and address of bidder.	For dredging plant for removing small rock.
<i>a</i> 1	Northern Dredge and Dock Co., Duluth, Minn.	
2	Zenith Dredge Co., Duluth Minn.	Price per hour. \$18 25

a Accepted.

Abstract of bids received at Duluth, Minn., in response to public notice and opened September 2, 1908, by Lieut. Col. Graham D. Fitch, Corps of Engineers, for furnishing and delivering on stock pile at Superior Entry, Wis., 5,000 cubic yards of pebbles.

[Appropriation: Improving harbor at Duluth, Minn., and Superior, Wis.]

No.	Name and address of bidder.	For pebbles delivered in stock pile, 5,000 cubic yards, more or less, per cubic yard.
a1	Whitney Bros. Co., Superior, Wis.	\$1.08

^a Accepted.

Abstract of letter bids received in response to public notice for dredging at Grand Marais, Mich., and opened by Maj. Graham D. Fitch, Corps of Engineers, at Duluth, Minn., July 9, 1908.

No.	Name and address of bidder.	Per cubic yard, scow measurement, 70,000 to 90,000 cubic yards.	Cents.
1	Duluth Marine Contracting Co., Duluth, Minn.		25
2	Great Lakes Dredge and Dock Co., Duluth, Minn.		22.5
3	Zenith Dredge Co., Duluth, Minn.		23
a 4	Lake Erie Dredging Co., Sault Ste. Marie, Mich.		18.75

^a Accepted.

MILWAUKEE (WIS.) DISTRICT.

[Officer: Maj. Chas. S. Bromwell, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for building plank crib revetment, removing old pier, and dredging at Manistique Harbor, Mich., received in response to advertisement dated July 27, 1908, and opened August 26, 1908, by Maj. W. V. Judson, Corps of Engineers.

[Improving harbor at Manistique, Mich.]

	Columbian Construction Co., Muskegon, Mich.	Greiling Brothers, Green Bay, Wis.
354,000 feet b. m. hemlock timber and plank, per M feet b. m.	\$31.00	\$30.00
8,500 feet b. m. pine timber and plank, per M feet b. m.	40.00	40.00
17,000 pounds wrought iron and steel screw bolts and wire spikes, per pound.	.04	.04
7,500 tons stone, per ton of 2,000 pounds.	1.05	1.25
5,300 cubic yards back filling, per cubic yard.	.50	.50
Dredging 80,000 cubic yards, per cubic yard.	.22	.19
Removing old pier for the work.	3,600.00	4,500.00
Total.	43,719.00	43,365.00

With the approval of the Chief of Engineers a contract was entered into with Greiling Brothers, of Green Bay, Wis., dated September 10, 1908.

Abstract of proposals for dredging 70,000 cubic yards, received in response to advertisement dated June 26, 1908, and opened July 16, 1908, by Maj. W. V. Judson, Corps of Engineers.

[Improving harbor at Manitowoc, Wis.]

	Per cubic yard.	Total.
Great Lakes Dredge and Dock Co., Chicago, Ill.	\$0.17 $\frac{3}{4}$	\$12,425
Samuel O. Dixon, Milwaukee, Wis.	.18 $\frac{1}{2}$	12,950
Edward Brothers Dredge Co., Sault Ste. Marie, Mich.	.19	13,300
The Fitz Simons & Connell Co., Chicago, Ill.	.20	14,000
Greiling Brothers, Green Bay, Wis.	.18 $\frac{1}{2}$	12,950

With the approval of the Chief of Engineers a contract was entered into with the Great Lakes Dredge and Dock Company, dated July 18, 1908.

Abstract of proposals for furnishing and delivering at Manitowoc, Wis., 3,476 tons of stone, received in response to advertisement dated July 21, 1908, and opened August 10, 1908.

[Improving harbor at Manitowoc, Wis.]

	Sturgeon Bay Stone Co., Saw- yer, Wis.	Leathem & Smith Tow- ing and Wrecking Co., Stur- geon Bay, Wis.
2,064 tons large stone, per ton of 2,000 pounds.	\$1.25	\$1.37
1,412 tons small stone, per ton of 2,000 pounds.	1.05	1.00
Total.	4,062.02	4,239.68

Contract entered into with Sturgeon Bay Stone Company August 15, 1908.

Abstract of proposals for dredging 75,000 cubic yards, more or less, received in response to advertisement dated April 28, 1909, and opened May 18, 1909, by Maj. Chas. S. Bromwell, Corps of Engineers.

[Improving harbor at Manitowoc, Wis.]

	Per cubic yard.	Total.
Samuel O. Dixon, Milwaukee, Wis.	\$0.14 $\frac{1}{2}$	\$10,875.00
Greiling Bros. Co., Green Bay, Wis.	.18	13,500.00
FitzSimons & Connell Co., Chicago, Ill.	.18	13,500.00
Great Lakes Dredge and Dock Co., Chicago, Ill.	.17 $\frac{1}{2}$	12,937.50
Ernst Schmidt, Two Rivers, Wis.	.13 $\frac{1}{2}$	10,125.00

With the approval of the Chief of Engineers, contract was entered into with Ernst Schmidt, dated June 7, 1909.

Abstract of proposals for construction of steel hulled inspection and survey boat for use in Milwaukee district, received in response to advertisement dated October 8, 1908, and opened October 20, 1908, by Maj. W. V. Judson, Corps of Engineers.

[Improving harbor at Manitowoc, Wis., and various other harbors in the district.]

	Amount.
Manitowoc Dry Dock Co., Manitowoc, Wis.	\$39,000

With the approval of the Chief of Engineers, contract was entered into with the Manitowoc Dry Dock Company for the construction of the boat October 21, 1908.

Abstract of proposals for dredging 25,000 cubic yards, more or less, received in response to advertisement dated March 27, 1909, and opened April 12, 1909.

[Improving harbor at Sheboygan, Wis.]

	Per cubic yard.	Total.
Samuel O. Dixon, Milwaukee, Wis.	\$0.22	\$5,500.00
Greiling Bros. Co., Green Bay, Wis.	.22 $\frac{1}{4}$	5,562.50

Soundings taken subsequent to advertising for bids for dredging having determined that the depths of channel were sufficient for present needs of navigation, no award was made.

Abstract of proposals for dredging 5,000 cubic yards, more or less, received in response to advertisement dated March 27, 1909, and opened April 12, 1909.

[Improving harbor at Port Washington, Wis.]

	Per cubic yard.	Total.
Greiling Bros. Co., Green Bay, Wis.	\$0.24 $\frac{1}{2}$	\$1,225
Samuel O. Dixon, Milwaukee, Wis.	.24	1,200

Soundings taken subsequent to advertising for bids for dredging having determined that the depths of channel were sufficient for present needs of navigation, no award was made.

Abstract of proposals received for fir timber and plank, f. o. b. cars at mill, Pacific coast, for shipment to Milwaukee, Wis., in response to advertisement dated Seattle, Wash., December 9, 1908, and opened by Maj. C. W. Kutz, Corps of Engineers, December 19, 1908.

[Improving harbor at Milwaukee, Wis.]

	Lumber Manufacturers' Agency, Seattle, Wash.	Somerville Bros., Napavine, Wash.	McCormick Lumber Co., McCormick, Wash.
44,520 feet b. m., 12 by 12 inches S2S.....per M feet b. m.	\$11.00	\$11.40	\$11.00
335,592 feet b. m., 9 by 12 inches, grooved.....do.	15.00	14.40	13.00
12,112 feet b. m., 3 by 4 inches, 22 and 24 feet S4S.....do.	10.00	9.40	10.00
25,176 feet b. m., 3 by 4 inches, 12 to 20 feet S4S.....do.	10.00	9.40	9.00
6,894 feet b. m., 3 by 12 inches, 22 to 24 feet S1S1E.....do.	9.00	10.40	10.00
9,864 feet b. m., 3 by 12 inches, 14 to 20 feet S1S1E.....do.	9.00	10.40	9.00
4,950 feet b. m., 3 by 12 inches, 22 feet, rough.....do.	9.00	9.40	9.50
23,400 feet b. m., 3 by 12 inches, 16 to 20 feet, rough.....do.	9.00	9.40	8.50
4,320 feet b. m., 2 by 12 inches, rough.....do.	8.00	9.40	8.00
Total feet b. m., 466,828.....	6,337.01	6,171.94	5,638.32

Contract was entered into with the McCormick Lumber Company, dated January 7, 1909.

Abstract of proposals received for furnishing 27,286 linear feet, more or less, round piles, delivered f. o. b. cars Milwaukee, Wis. Received and opened December 21, 1908.

[Improving harbor at Milwaukee, Wis.]

	A. J. Macdonald, Superior, Wis.	C. J. Huebel Co., Menominee, Mich.	Lake Superior Piling Co., Chicago, Ill.	Rieboldt, Wolter & Co., Sturgeon Bay, Wis.	John Schroeder Lumber Co., Milwaukee, Wis.	Rogers Lumber Co., Newald, Wis.
44 piles, 45 feet long.....per linear foot.	\$0.18	\$0.16	\$0.16 $\frac{1}{2}$	\$0.17	\$0.16 $\frac{1}{2}$	\$0.25
144 piles, 40 feet long.....do.	.17	.16	.16 $\frac{1}{2}$	.17	.16 $\frac{1}{2}$	.22
200 piles, 35 feet long.....do.	.15	.16	.16 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.20
67 piles, 30 feet long.....do.	.14	.15	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
64 piles, 28 feet long.....do.	.13	.15	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
56 piles, 26 feet long.....do.	.13	.15	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
104 piles, 24 feet long.....do.	.13	.15	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
96 piles, 22 feet long.....do.	.13	.14	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
134 piles, 20 feet long.....do.	.13	.13	.15 $\frac{1}{2}$	.16	.16 $\frac{1}{2}$	.15
Total.....	4,036.68	4,165.58	4,376.73	4,443.16	4,502.19	5,044.10

Contract entered into with A. J. Macdonald, dated January 2, 1909.

Abstract of proposal for furnishing and delivering, f. o. b. cars Milwaukee, Wis., steel reenforcing bars, received in response to advertisement dated January 12, 1909, and opened January 22, 1909.

[Improving harbor at Milwaukee, Wis.]

[Corrugated Bar Co., St. Louis, Mo., only bidder.]

Number of bars.	Area.	Length.	Pounds.	Price per 100 pounds.
	Sq. in.	"	"	
400	1.00	53 6	72,760	\$1.625
192	1.00	17 6	11,424	1.625
64	.76	53 6	8,903	1.625
200	.76	35 6	18,460	1.625
64	.76	17 6	2,912	1.625
200	.76	14 6	7,540	1.625
80	.56	53 6	8,174	1.625
420	.56	35 6	28,480	1.625
160	.56	14 6	4,430	1.625
80	.56	17 6	2,674	1.625
200	.39	35 6	9,440	1.675
208	.39	17 6	4,842	1.675
600	.39	14 6	11,570	1.675
645	.39	7 8	6,578	1.675
1,880	.39	3 0	7,502	1.675
2,073	.39	1 6	4,135	1.675
216	.25	17 6	3,213	1.725
512	.25	14 10	6,456	1.725
360	.25	14 6	4,440	1.725
112	.25	13 10	1,317	1.725
920	.25	11 10	9,250	1.725
240	.25	10 10	2,210	1.725

Total (236,710 pounds) \$3,895.45

Contract was entered into with the Corrugated Bar Co., dated January 25, 1909.

Abstract of proposals for building reinforced concrete caissons and pile pier, removing old pier, and dredging, received in response to advertisement dated January 14, 1909, and opened February 12, 1909, by Maj. W. V. Judson, Corps of Engineers.

[Improving harbor at Milwaukee, Wis.]

	Standard Construction Co., Chicago, Ill.	Samuel O. Dixon, Milwaukee, Wis.	William H. Gillen, Milwaukee, Wis.	Greiling Bros. Co., Green Bay, Wis.
1,428 cubic yards No. 1 concrete, in caissons, per cubic yard.....	\$16.00	\$18.00	\$15.50	\$15.00
58 cubic yards No. 1 concrete in pile pier, per cubic yard.....	23.00	18.00	9.00	15.00
575 cubic yards No. 2 concrete, in caissons.....do.....	8.00	9.00	9.00	10.00
1,183 cubic yards No. 2 concrete, in pile pier.....do.....	9.50	9.00	9.50	10.00
1,256 cubic yards No. 3 concrete.....do.....	6.50	8.50	6.00	8.00
Foundation piles, driving, cutting off, etc., piles to be furnished by United States, 344 piles.....per pile.....	10.00	9.00	7.50	6.00
Driving 13,500 linear feet round piles in pile pier, piles furnished by United States.....per linear foot.....	.20	.20	.17	.17
Making and driving sheet piles, timber furnished by United States, 331,000 feet b. m. ....per M feet b. m.	18.00	18.00	15.00	18.00
Framing 75,000 feet b. m., timber furnished by United States.....per M feet b. m.	22.00	18.00	18.00	20.00
8,600 pounds wrought-iron or steel drift bolts and wrought-iron or wire spikes.....per pound.....	.06	.06	.05	.05
49,300 pounds wrought-iron or steel screw bolts and tie-rods.....per pound.....	.06	.06	.05	.05
10,000 tons stone.....per ton of 2,000 pounds.....	1.50	1.75	1.45	1.65
Removing 1,425 linear feet old pier.....per linear foot.....	18.00	19.00	15.00	22.00
Dredging 50,000 cubic yards, per cubic yard (scow measurement).....	.25	.18	.17	.19
Total.....	118,556.50	123,399.00	105,065.50	121,980.00

With the approval of the Chief of Engineers contract was entered into with William H. Gillen, dated March 1, 1909.

Abstract of proposals for dredging 25,000 cubic yards, more or less, received in response to advertisement dated March 27, 1909, and opened April 12, 1909.

[Improving harbor at Racine, Wis.]

	Percubic yard.	Total.
	Cents.	
Greiling Bros. Co., Green Bay, Wis.	21	\$5,250
Samuel O. Dixon, Milwaukee, Wis.	19	4,750

Contract was entered into with Mr. Samuel O. Dixon, dated April 17, 1909.

Abstract of proposals for dredging 25,000 cubic yards, more or less, received in response to advertisement dated March 27, 1909, and opened April 12, 1909.

[Improving harbor at Kenosha, Wis.]

	Percubic yard.	Total.
	Cents.	
Greiling Bros. Co., Green Bay, Wis.	20 $\frac{1}{2}$	\$5,125
Samuel O. Dixon, Milwaukee, Wis.	19	4,750

Contract was entered into with Samuel O. Dixon, dated April 17, 1909.

Abstract of proposals for construction of two lock masters' dwellings at and near Little Chute, Wis., received in response to advertisement dated January 13, 1909, and opened February 3, 1909.

[Operating and care of canals and other works of navigation, indefinite, for Fox River, Wis.]

	Total.
George Ashman, Appleton, Wis.	\$6,150.00
Hartjens & Schommer, Little Chute, Wis.	6,490.00
Herman W. Engel, Oshkosh, Wis.	7,529.00
A. Luckow & J. Coppers & Co., South Kaukauna, Wis.	7,717.56
George L. Smith Co., Kaukauna, Wis.	8,600.00

With the approval of the Chief of Engineers a contract was entered into with George Ashman, dated February 9, 1909.

WRECK.

*Abstract of proposals for removal of the wrecked steamer *Cecelia Hill* from Eagle Harbor, Green Bay, Wis., received in response to advertisement dated August 6, 1908, and opened August 27, 1908.*

[Removing sunken vessels or craft, obstructing or endangering navigation, indefinite.]

	Thos. Isab- bell & Son, Sturgeon Bay, Wis.	
	Cents.	24
For removing entire wreck, the wreck to become the property of the successful bidder.		

With the approval of the Chief of Engineers contract was entered into with Thos. Isabell & Son, dated September 10, 1908.

CHICAGO (ILL.) DISTRICT.

[Officer: Maj. Thos. H. Rees, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging turning basin in Calumet River, Ill., near Ninety-third street, received in response to advertisement dated July 15, 1908, and opened at Chicago, Ill., July 29, 1908, by Col. W. H. Bixby, Corps of Engineers.

Quantity.	(1) Great Lakes Dredge and Dock Co., Chicago, Ill.		(2) The Fitz Simons & Connell Co., Chicago, Ill.		(3) E. M. Graves, Cleveland, Ohio.		(4) Greiling Bros., Green Bay, Wis.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
200,000 cubic yards.....	\$0.125	\$25,000	\$0.1325	\$26,500	\$0.16	\$32,000	\$0.1725	\$34,500

a Lowest bid.

Abstract of proposals for dredging and rock excavation in Chicago River, Ill., received in response to advertisement dated September 4, 1908, and opened at Chicago, Ill., October 14, 1908.

	(1) Great Lakes Dredge and Dock Co., Chicago, Ill.			(2) Buffalo Dredging Co., Buffalo, N. Y.			(3) Fitz Simons & Connell Co., Chicago, Ill.		
	Rate.	Amt.	Cubic yards.	Rate.	Amt.	Cubic yards.	Rate.	Amt.	Cubic yards.
If awarded one contract:									
Dredging South Fork, South Branch.....	\$0.35	\$18,200	52,000	\$0.40	\$20,800	52,000	\$0.30	\$15,600	52,000
Rock excavation, South Fork, South Branch.....	4.60	59,340	12,900	5.50	70,950	12,900	5.25	67,725	12,900
Total.....		77,540	505,555		91,750			83,325	
Dredging North Branch.....	.18	<u>\$91,000</u>	<u>505,555</u>	.199	<u>\$91,000</u>	<u>457,286</u>	.195	<u>\$91,000</u>	<u>466,666</u>
If awarded both contracts:									
Dredging South Fork, South Branch.....	b. 33	17,160	.....	.40	20,800	.....	.29 ¹ ₄	15,210	.....
Rock excavation, South Fork, South Branch.....	b4. 25	54,825	.....	5.50	70,950	.....	5.00	64,500	.....
Total.....		71,985	.....		91,750	.....		79,710	.....
Dredging North Branch.....	b. 16	.....	568,750	.199	.....	457,286	.183	.....	485,333

a About.

b Lowest bid. Recommended for acceptance.

Abstract of proposals for repairs to outer breakwater, and for removal of overturned crib at Michigan City Harbor, Indiana, received in response to advertisement dated June 16, 1909, and opened at Chicago, Ill., June 26, 1909, by Maj. Thos. H. Rees, Corps of Engineers.

	(1) Standard Construction Co., Chicago, Ill.		(2) Great Lakes Dredge and Dock Co., Chicago, Ill.	
	Rate.	Amount.	Rate.	Amount.
23,000 feet b. m. yellow pine or Oregon fir timber.....	$\left\{ \begin{array}{l} b \$65.00 \\ c 65.00 \\ b 65.00 \\ c 65.00 \end{array} \right\}$	\$1,495	$\left\{ \begin{array}{l} b \$60.00 \\ c 65.00 \\ b 50.00 \\ c 55.00 \end{array} \right\}$	\$1,380
17,000 feet b. m. yellow pine or Oregon fir decking.....	$\left\{ \begin{array}{l} b 65.00 \\ c 65.00 \end{array} \right\}$	1,105	$\left\{ \begin{array}{l} b 50.00 \\ c 55.00 \end{array} \right\}$	850
2,500 pounds steel driftbolts.....	.06	150	.05	125
1,400 pounds wrought-iron spikes $\frac{3}{4}'' \times 14''$.....	.06	84	.05	70
1,200 cords stone for filling.....	13.00	15,600	7.90	9,480
500 cords stone for riprap.....	12.00	6,000	7.90	3,950
Removing overturned crib (30' x 100').....		1,000		1,500
Total.....		25,434		17,355

a Lowest bid. Accepted.

b Yellow pine.

c Oregon fir

Abstract of proposals for constructing about 900 linear feet pile pier and removal of about 1,550 linear feet old pier in Michigan City Harbor, Indiana, received in response to advertisement dated November 2, 1908, and opened at Chicago, December 12, 1908, by Maj. Thos. H. Rees, Corps of Engineers.

Basis 100 linear feet.	(1) Great Lakes Dredge and Dock Co., Chicago, Ill.		(2) Standard Construction Co., Chicago, Ill.		(3) Standard Contracting Co., Cleveland, Ohio.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
25 oak piles 35 feet long.....each.	\$16.00	\$400.00	\$12.50	\$312.50	\$15.75	\$393.75
25 oak piles 30 feet long.....do.	14.00	350.00	11.00	275.00	13.50	337.50
2,712 feet b. m. oak cap timbers...M feet.	75.00	203.40	78.00	211.54	80.00	157.30
2,712 feet b. m. oak wales.....do.	75.00	203.40	85.00	230.52	58.00	157.30
4,566 feet b. m. Oregon fir stringers.....do.	75.00	342.45	55.00	251.13	40.00	182.64
100 linear feet fir or pine triple lap sheeting.....linear foot.	16.00	1,600.00	13.00	1,300.00	17.80	1,780.00
14,000 feet b. m. fir or pine double lap sheeting.....M feet.	75.00	1,050.00	55.00	770.00	54.00	756.00
2,700 pounds steel anchor rods...pound.	.08	216.00	.05	135.00	.04	108.00
200 pounds screw bolts.....do.	.08	16.00	.05 ¹	11.00	.04	8.00
1,100 pounds driftbolts.....do.	.08	88.00	.04 ²	52.25	.04	44.00
50 pounds wire nails.....do.	.08	4.00	.05	2.50	.04	2.00
50 pounds boat spikes.....do.	.08	4.00	.05	2.50	.04	2.00
Total for constructing 100 linear feet pile pier.....		4,477.25		3,553.94		3,928.49
Total for constructing 900 linear feet pile pier.....		40,295.25		31,985.46		35,356.41
Removal of about 1,550 linear feet old pier.....	22.00	34,100.00	17.00	26,350.00	28.77	44,593.50
Grand total.....		74,395.25		58,335.46		79,949.91

^a Lowest bid. Recommended for acceptance.

Abstract of proposals for dredging turning basins in Chicago River, Illinois, received in response to advertisement dated May 11, 1909, and opened at Chicago, Ill., June 11, 1909, by Maj. Thos. H. Rees, Corps of Engineers.

Turning basin.	Estimated quantity.	Place of dumpage.	(1) Great Lakes Dredge and Dock Co., Chicago, Ill.		(2) The Fitz Simons & Connell Co., Chicago, Ill.		(3) Buffalo Dredging Co., Buffalo, N. Y.	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Cu. yds.								
South Branch..	111,200	{South dumping ground. Lincoln Park extension.	\$0.17 ¹ .23 .18 ¹ .24	a \$19,460 b 25,576 17,760 23,040	\$0.18 ¹ .23 ¹ .17 .22	\$20,572 26,132 a 16,320 b 21,120	\$0.23 ¹ 26 .23 ¹	\$26,132 22,560
North Branch..	96,000	{South dumping ground. Lincoln Park extension.						

^a Lowest bids for material to be deposited in South dumping ground.

^b Lowest bids for material to be deposited in Lincoln Park extension. Recommended for acceptance.

GRAND RAPIDS (MICH.) DISTRICT.

[Officer: Maj. Charles Keller, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids for dredging at Saugatuck Harbor, Michigan, received and opened July 2, 1908, in accordance with public notice circular dated June 18, 1908, by Col. M. B. Adams, Corps of Engineers.

No.	Name and address of bidder.	Dredging 45,000 cubic yards (per cubic yard).	Approximate total.
		Cents.	
^a 1	Greiling Bros., Green Bay, Wis.....	23	\$10,350
2	Love & Smith, Muskegon, Mich.....	25	11,250

^a Accepted.

Contract (emergency) entered into July 3, 1908.

Abstract of bids for repair of South Pier at Frankfort, Mich., received and opened February 16, 1909, in accordance with advertisement dated January 18, 1909, by Col. M. B. Adams, Corps of Engineers.

No.	Name and address of bidder.	To furnish the following material and to secure it in place in the work.					
		Dredging 1,200 cubic yards (per cubic yard).	Oak piles, 1,060 linear feet (per linear foot).	Oak timber, 1,075 feet b. m. (per M foot b. m.).	Pine or Douglas fir timber, 13,228 feet b. m. (per M feet b. m.).	Pine or Douglas fir plank for sheet piles, 22,464 feet b. m. (per M feet b. m.).	Driftbolts, 1,618 pounds (per pound).
a 1	Burk, Smith & Nelson, Muskegon, Mich.	\$0.85	Cents.				
2	Robert Love, Muskegon, Mich.	1.00	40	\$70	\$40	\$36	4
3	Bennett-Schnorbach Co., Muskegon, Mich.	.98	36	60	45	50	4
			50	90	50	60	50

No.	Name and address of bidder.	To furnish the following material and to secure it in place in the work.					
		Screw bolts, 898 pounds (per pound).	Carriage bolts, 640 pounds (per pound).	Tie rods, 985 pounds (per pound).	Spikes, 75 pounds (per pound).	Stone filling, 150 cords (per cord).	Approximate total.
a 1	Burk, Smith & Nelson, Muskegon, Mich.	Cents.	Cents.	Cents.	Cents.	\$8.00	\$4,458.74
2	Robert Love, Muskegon, Mich.	4	4	4	4	7.50	4,804.80
3	Bennett-Schnorbach Co., Muskegon, Mich.	4	10	4	4	9.70	5,516.88

^a Accepted.

Contract entered into March 1, 1909.

Abstract of bids for repair of South Pier at Grand Haven, Mich., received and opened July 14, 1908, in accordance with advertisement dated June 30, 1908, by Col. M. B. Adams, Corps of Engineers.

No.	Name and address of bidder.	To furnish the following material and to secure it in place in the work.					
		Cutting down and removing old work, 1,311 linear feet (per linear foot).	Oak piles, 2,816 linear feet (per linear foot).	Oak timber, 3,805 feet b. m. (per M feet b. m.).	Pine or Douglas fir timber, 108,017 feet b. m. (per M feet b. m.).	Hemlock timber, 112,440 feet b. m. (per M feet b. m.).	Pine or Douglas fir plank for decking, 21,326 feet b. m. (per M feet b. m.).
a 1	Burk, Smith & Nelson, Muskegon, Mich.	\$1.95	Cents.	\$65.00	\$37.00	\$30.00	\$35.00
2	Bennett-Schnorbach Co., Muskegon, Mich.	35					
3	Robert Love, Muskegon, Mich.	1.20	35	80.00	38.00	32.00	34.00
4	J. E. Hathaway, Milwaukee, Wis.	2.00	23	60.00	37.50	32.00	36.00
5	Nelson J. Gaylord, Ludington, Mich.	2.50	30	60.00	38.60	30.00	38.60
6	Greiling Bros., Green Bay, Wis.	3.00	34	60.00	38.00	28.50	35.50
		2.00	35	60.00	45.00	32.50	40.00

Abstract of bids for repair of South Pier at Grand Haven, Mich., received and opened July 14, 1908, in accordance with advertisement dated June 30, 1908, etc.—Cont'd.

No.	Name and address of bidder.	To furnish the following material and to secure it in place in the work.								Approximate total.
		Drift bolts, 30,509 pounds (per pound).	Screw bolts, 2,215 pounds (per pound).	Tie rods, 3,112 pounds (per pound).	Spikes, 4,114 pounds (per pound).	Pile shoes, 300 pounds (per pound).	Stone, 543 cords (per cord).			
a 1	Burk, Smith & Nelson, Muskegon, Mich.	4	4	4	4	15	9.10	19,688.76		
2	Bennett-Schnorbach Co., Muskegon, Mich.	4	4	4	4	12	9.50	20,683.33		
3	Robert Love, Muskegon, Mich.	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	5	9.75	21,799.83		
4	J. E. Hathaway, Milwaukee, Wis.	4	4	4	4	8	10.75	22,566.51		
5	Nelson J. Gaylord, Ludington, Mich.	4	4	4	4	10	10.50	22,804.05		
6	Greiling Bros., Green Bay, Wis.	4	5	5	5					

a Accepted; contract entered into July 27, 1908.

Abstract of bids on account of appropriations: Improving St. Joseph Harbor and River, Michigan (for St. Joseph Harbor), and improving harbor at South Haven, Mich., for furnishing stone for pier filling and riprap, received and opened March 5, 1909, in accordance with advertisement dated February 3, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Name and address of bidder.	For St. Joseph Harbor, Mich.		For South Haven Harbor, Mich.			
		100-pound stone, 312 cords (per cord).	Total.	1,000-pound stone, 90 cords (per cord).	500-pound stone, 63 cords (per cord).	100-pound stone, 111 cords (per cord).	Total.
1	The Green Stone and Quarrying Co., Sawyer, Wis.	\$8.70	<i>a</i> \$2,714.40				
2	Thomas H. Smith, Sturgeon Bay, Wis.	9.47	2,954.64	\$18.00	\$13.00	\$10.45	<i>b</i> \$3,598.95
3	Bennett-Schnorbach Co., Muskegon, Mich.	9.75	3,042.00	16.00	16.00	12.00	3,780.00
4	Great Lakes Dredge and Dock Co., Chicago, Ill.	12.70	3,962.40	16.70	15.90	15.00	4,169.70

a Accepted; contract entered into March 18, 1909.

b Accepted; contract entered into March 29, 1909.

Abstract of bids on account of appropriations: Improving St. Joseph Harbor and River, Mich. (for St. Joseph Harbor); harbor at South Haven, Mich.; harbor at Saugatuck and Kalamazoo River, Mich.; harbor at Holland, Mich.; harbor at Grand Haven, Mich.; Grand River, Mich.; harbor at Muskegon, Mich.; harbors at Pentwater and White Lake, Mich. (for Pentwater and White Lake); harbor at Manistee, Mich.; harbor of refuge at Portage Lake, Mich.; harbor at Frankfort, Mich.; harbor at Charlevoix, Mich.; for furnishing coal during the year 1909, for U. S. dredge Genl. Gillespie and United States dredges on Grand River, Mich., received and opened March 10, 1909, in accordance with public notice dated March 1, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Place of delivery and name and address of bidder.	Youghio- gheny Gas Pool 2.	West Virginia.	Hocking Valley.	Saginaw.	Pitts- burg No. 8.
	AT ST. JOSEPH, SOUTH HAVEN, GRAND HAVEN, AND MUSKEGON, MICH.					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	Per ton. \$3.10	Per ton. \$3.00	Per ton. \$2.90	Per ton. \$2.75	Per ton. \$2.65
2	Century Fuel Co., Grand Rapids, Mich.	3.19	3.00	2.90	2.85	2.75
	AT OTTAWA BEACH, MICH.					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	3.25	3.15	3.00	2.90	2.80
2	Century Fuel Co., Grand Rapids, Mich.	3.29	3.10	3.00	2.95	2.80
	AT LUDINGTON, MANISTEE, FRANKFORT, AND CHARLEVOIX, MICH.					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	3.30	3.20	3.00	2.80	2.85
2	Century Fuel Co., Grand Rapids, Mich.	3.39	3.20	3.10	2.90	2.95
	AT GRAND RAPIDS, MICH. (AT CITY MARKET, ON SCOW BY CARS).					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	3.50	3.50	3.30	3.00	3.00
2	Century Fuel Co., Grand Rapids, Mich.	3.45	3.35	3.25	3.00	3.05
	AT GRAND RAPIDS, MICH. (AT LANDING NEAR WEALTHY AVE., ON SCOW BY TEAM).					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	3.50	3.50	3.30	3.00	3.00
2	Century Fuel Co., Grand Rapids, Mich.	3.35	3.35	3.25	3.00	3.10
	AT GRANDVILLE, MICH. (ON SCOW BY TEAM).					
1	S. P. Bennett Fuel and Ice Co., Grand Rapids, Mich.	3.50	3.50	3.30	3.00	3.00
2	Century Fuel Co., Grand Rapids, Mich.	3.59	3.55	3.30	3.25	3.20

^a Accepted; emergency contract entered into March 24, 1909.

Abstract of bids: Improving harbor at Manistee, Mich., for repair of north pier, received and opened April 14, 1909, in accordance with advertisement dated March 15, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Name and address of bidder.	Cutting down and removing old work; 446.1 linear feet (per linear foot).	To furnish the following material and to secure it in the work.				
			Oak piles, 4,942 linear feet (per linear foot).	Oak timber, 5,531 feet b. m. (per M. feet b. m.).	Pine or Douglas fir timber, 71,778 feet b. m. (per M. feet b. m.).	Pine or Douglas fir plank for sheet piles, 108,864 feet b. m. (per M. feet b. m.).	Pine or Douglas fir plank for walk, 3,987 feet b. m. (per M. feet b. m.).
a 1	Robert Love, Muskegon, Mich.....	\$1.50	Cents. 33	\$60	\$38	\$42	\$40
2	Burk, Smith & Nelson, Muskegon, Mich.....	1.00	36	65	40	45	40
3	Standard Construction Co., Chicago, Ill.....	8.50	40	80	70	70	70

No.	Name and address of bidder.	To furnish the following material and to secure it in the work.					Approximate total.
		Drift-bolts, 8,321 pounds (per pound).	Screw bolts, 5,868 pounds (per pound).	Carriage bolts, 3,127 pounds (per pound).	Tie-rods, 5,213 pounds (per pound).	Spikes, 233 pounds (per pound).	
a 1	Robert Love, Muskegon, Mich.....	Cents. 3 $\frac{1}{2}$	Cents. 3 $\frac{1}{2}$	Cents. 3 $\frac{1}{2}$	Cents. 3 $\frac{1}{2}$	Cents. 3 $\frac{1}{2}$	\$10,887.87
2	Burk, Smith & Nelson, Muskegon, Mich.....	4	4	4	4	4	11,424.69
3	Standard Construction Co., Chicago, Ill.....	6	6	6	6	6	20,500.88

a Accepted.

Contract entered into April 24, 1909.

Abstract of bids for dredging: Improving harbor at Muskegon, Mich., received and opened May 20, 1909, in accordance with advertisement dated May 10, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Name and address of bidder.	150,000 cubic yards. (per cubic yard.)	Approximate total.	
			Cents.	
1	Samuel O. Dixon, Milwaukee, Wis.....	14 $\frac{1}{2}$		\$21,375
2	The FitzSimons & Connell Co., Chicago, Ill.....	15		22,500
3	Duluth Marine Contracting Co., Duluth, Minn.....	16 $\frac{1}{2}$		24,750
4	Great Lakes Dredge and Dock Co., Chicago, Ill.....	16 $\frac{3}{4}$		25,125

a Accepted.

Contract entered into June 5, 1909.

Abstract of bids for dredging, preservation, and maintenance of river and harbor work for Arcadia Harbor, Michigan, received and opened June 4, 1909, in accordance with circular dated May 28, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Name and address of bidder.	Price per cubic yard.
		Cents.
1	John Smith, Manistee, Mich.	19 $\frac{1}{2}$
2	Samuel O. Dixon, Milwaukee, Wis.	28

a Accepted.

Emergency contract entered into June 5, 1909.

Abstract of bids for dredging, preservation, and maintenance of river and harbor works, for Saugatuck Harbor and Kalamazoo River, Michigan, received and opened June 4, 1909, in accordance with circular dated May 28, 1909, by Maj. Charles Keller, Corps of Engineers.

No.	Name and address of bidder.	25,000 cubic yards. per cubic yard.	Approximate total.
		Cents.	
1	John Smith, Manistee, Mich.	161	\$4,125.00
2	Great Lakes Dredge and Dock Co., Chicago, Ill.	24 $\frac{1}{2}$	6,062.50
3	Samuel O. Dixon, Milwaukee, Wis.	25	6,250.00

a Accepted.

Emergency contract entered into June 19, 1909.

DETROIT (MICH.) DISTRICT.

[Officer: Lieut. Col. C. McD. Townsend, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering at St. Marys Falls Canal, Michigan, about 1,328,000 feet b. m. of hemlock timber, received in response to advertisement dated June 17, 1908, and opened July 17, 1908.

[Appropriation: Improving St. Marys River, Michigan: General improvement and new lock and canal.]

No.	Name and address of bidder.	Price of bid per M feet b. m.
1	R. J. Clark, Sault Ste. Marie, Mich.	\$17.45
2	Emery D. Weiner, Ludington, Mich.	17.50
3	The Robt. H. Jenks Lumber Co., Cleveland, Ohio.	17.65
4	N. Mitchell De Haas, Marquette, Mich.	18.00
5	G. Elias & Bro., Buffalo, N. Y.	18.65
6	Newbegin Lumber Co., Tacoma, Wash.	^b 10.00

a Contract entered into August 4, 1908.

b This price is for Pacific coast delivery; specifications called for delivery at Sault Ste. Marie, Mich.

Abstract of proposals for dredging Hay Lake and Neebish channels, St. Marys River, Michigan, received in response to advertisement dated June 18, 1908, and opened July 21, 1908.

[Appropriation: Improving Hay Lake and Neebish channels, St. Marys River, Michigan.]

No.	Name and address of bidder.	Section 3.—295,000 cubic yards, full rate; 19,000 cubic yards, half rate.		Section 4.—60,700 cubic yards, full rate; 43,000 cubic yards, half rate.	
		Price.	Total.	Price.	Total.
		<i>Cents.</i>			
1	Lake Erie Dredging Co., Buffalo, N. Y.	24.5	<i>a</i> \$92,407.50		
2	Standard Contracting Co., Cleveland, Ohio.	29	114,115.00	\$2.95	<i>b</i> 242,490
3	Great Lakes Dredge and Dock Co., Chicago, Ill.	33.9	133,396.50	3.19	262,218
4	Duluth Marine Contracting Co., Duluth, Minn.	34.75	136,741.25		
5	Samuel O. Dixon, Milwaukee, Wis.	34.8	136,938.00		
6	Zenith Dredging Co., Duluth, Minn.	35.5	139,692.50		
7	Greiling Bros., Green Bay, Wis.	43	169,205.00		
8	Hickler Bros., Sault Ste. Marie, Mich.			3.39	278,658
9	T. L. Durocher, John P. Conrick, and Joseph Ganley, Sault Ste. Marie, Mich.			3.47	285,234
10	Edward Bros., Sault Ste. Marie, Mich.	46	181,010.00	4.00	328,800

a Contract entered into August 11, 1908.

b Contract entered into August 12, 1908.

Abstract of proposals for furnishing and delivering about 80,000 feet b. m. of oak timber received in response to public notice dated June 25, 1908, and opened July 6, 1908.

[Appropriations: Improving St. Marys River, Michigan, general improvement and new lock and canal, and operating and care of canals and other works of navigation, indefinite, St. Marys Falls Canal, Michigan.]

No.	Name and address of bidder.	Lot I (54,030 feet b. m.).		Lot II (17,152 feet b. m.).		Lot III (8,673 feet b. m.).		Aggregate of bid.
		Per 1,000.	Total.	Per 1,000.	Total.	Per 1,000.	Total.	
1	N. G. De Haas, Marquette, Mich.	\$48.00	\$2,593.44	\$45.00	\$771.48	\$75.00	\$650.48	\$4,015.76
2	Rogers Ruger Lumber Co., Superior, Wis.	57.48	3,105.65	57.48	985.90	57.48	498.52	4,590.07

a Contract entered into July 25, 1908.

Abstract of proposals for furnishing and delivering about 2,500 cubic yards of clay, received in response to public notice dated July 14, 1908, and opened July 24, 1908.

[Appropriation: Improving St. Marys River, Michigan, new lock and canal.]

No.	Name and address of bidder.			Price per cubic yard.	Aggregate of bid.
1	Rye & Fleming, Sault Ste. Marie, Mich.			\$0.97	\$2,425
2	John F. Arnott and A. McKechnie, Sault Ste. Marie, Mich.			.98	2,450
3	Louis Belanger, Sault Ste. Marie, Mich.			1.15	2,875
4	Wm. L. Cota and M. Bennett, Sault Ste. Marie, Mich.			1.23	3,075
5	Henry Watson, Sault Ste. Marie, Mich.			1.95	4,875

a Contract entered into July 29, 1908.

Abstract of proposals for earth excavation for lock pit at Sault Ste. Marie, Mich., received in response to advertisement dated July 22, 1908, and opened August 24, 1908.

[Appropriation: Improving St. Marys River, Michigan, new lock and canal.]

No.	Name and address of bidder.	Price per cubic yard.	Estimated amount excavation.	Total of bid.
a 1	Great Lakes Dredge and Dock Co., Chicago, Ill.	\$0.43	Cubic yards 90,000	\$38,700
2	T. L. Durocher and John P. Conrick, Sault Ste. Marie, Mich.	.47 ³	90,000	42,975

a Contract entered into September 8, 1908.

Abstract of proposals for furnishing and delivering at Sault Ste. Marie, Mich., 10,000 barrels of Portland cement, received in response to advertisement dated July 22, 1908, and opened August 24, 1908.

[Appropriations: Improving St. Marys River, Michigan, general improvement; improving Hay Lake and Neebish channels, and improving Middle and West Neebish channels, St. Marys River, Michigan.]

No.	Name and address of bidder.	Price per barrel.	Aggregate.
a 1	Burt Portland Cement Co., Bellevue, Mich.	\$1.00	\$10,000
2	The Hecla Co., Detroit, Mich.	1.039	10,390
3	Alpena Cement Co., Alpena, Mich.	.905	10,950
4	Newaygo Portland Cement Co., Grand Rapids, Mich.	1.11	11,100
5	Elk Cement and Lime Co., Elk Rapids, Mich.	1.22	12,200
6	Alpha Portland Cement Co.	1.235	12,350
7	F. B. Spear & Sons, Marquette, Mich.	1.49	14,900
8	Lehigh Portland Cement Co., Cleveland, Ohio.	1.63	16,300
9	Universal Portland Cement Co., Chicago, Ill.	1.78	17,800

a Contract entered into September 30, 1908.

Abstract of proposals for furnishing and delivering about 3,000 cubic yards of filling, and for grading and cleaning up property, received in response to public notice dated August 21, 1908, and opened August 31, 1908.

[Appropriation: Improving St. Marys River, Michigan, general improvement.]

No.	Name and address of bidder.	Rate per yard.	Aggregate.
a 1	A. McKechnie, Sault Ste. Marie, Mich.	\$0.29	\$870
2	Thomas J. Bye, Sault Ste. Marie, Mich.	.45	1,350
3	William L. Cota and Mike Bennett, Sault Ste. Marie, Mich.	.55	1,650
4	Henry Watson, Sault Ste. Marie, Mich.	.56	1,680
5	John J. Gallagher, Sault Ste. Marie, Mich.	.615	1,845
6	Louis Belanger, Sault Ste. Marie, Mich.	.69	2,070
7	John W. Burgess, Sault Ste. Marie, Mich.	.73	2,190
8	Eusebe Aube, Sault Ste. Marie, Mich.	.93	2,790
9	Louis Jacobs, Sault Ste. Marie, Mich.	1.15	3,450

a Contract entered into September 8, 1908.

Abstract of proposals for dredging about 8,000 cubic yards of material from site of east cofferdam, received in response to public notice dated August 25, 1908, and opened September 9, 1908.

[Appropriation: Improving St. Marys River, Michigan, New Lock and Canal.]

No.	Name and address of bidder.	Price bid per cubic yard.	Total of bid.
a 1	Hickler Brothers, Sault Ste. Marie, Mich.	76	\$6,080
2	Great Lakes Dredge and Dock Co., Chicago, Ill.	79	6,320

a Contract entered into September 18, 1908.

Abstract of proposals for furnishing and delivering about 135 tons of steel sheet piling, received in response to public notice dated March 3, 1909, and opened March 13, 1909.

[Appropriation: Improving St. Marys River, Michigan, New Lock and Canal.]

No.	Name and address of bidder.	Unit price.	Aggregate of bid.
a 1	G. & W. Manufacturing Co., New York, N. Y.....	per 2,000 pounds..	\$33.90
b 2	Lackawanna Steel Co., New York, N. Y.....	cents per pound..	1.885
3	Carnegie Steel Co., Pittsburgh, Pa.....	do.....	1.935

a Rejected, as piling they proposed to furnish is not in accordance with the specifications.

b Contract entered into March 29, 1909.

Abstract of proposals for the construction of the superstructure of a movable dam for St. Marys Falls Canal, Sault Ste. Marie, Mich., received in response to advertisement dated February 27, 1909, and opened April 20, 1909.

[Appropriation: Improving St. Marys River, Michigan; general improvement.]

No.	Name and address of bidder.	Medium steel. (1,697,000 pounds.)		Machinery. (336,000 pounds.)		Steel castings and forgings. (87,000 pounds.)	
		Per pound.	Total.	Per pound.	Total.	Per pound.	Total.
a 1	Lawrence D. Weaning, Cleveland, Ohio.	\$0.04 $\frac{1}{2}$	\$72,122.50	\$0.08 $\frac{3}{4}$	\$28,602.50	\$0.07	\$6,090.00
2	Penn. Bridge Co., Beaver Falls, Pa.....	.03747	63,586.59	.12	40,380.00	.0795	6,916.50
3	Milwaukee Bridge Co., Milwaukee, Wis.....	.042	71,274.00	.125	42,062.50	.108	9,396.00
4	Strobel Steel Construction Co., Chicago, Ill.....	.0473	80,268.10	.135	45,427.50	.107	9,309.00
5	Midland Bridge Co., Kansas City, Mo.....	.04 $\frac{1}{2}$	76,365.00	.20	67,300.00	.14	12,180.00
6	Chicago Bridge and Iron Works, Chi- cago, Ill.....	.05 $\frac{1}{2}$	93,335.00	.15	50,475.00	.15	13,050.00

No.	Name and address of bidder.	Wire rope. (5,100 pounds.)		Phosphor bronze and brass. (3,000 pounds.)		Electrical equip- ment complete.	Entire work.
		Per pound.	Total.	Per pound.	Total.		
a 1	Lawrence D. Weaning, Cleveland, Ohio.	\$0.13	\$663.00	\$0.28	\$840	\$11,000	\$119,318.00
2	Penn. Bridge Co., Beaver Falls, Pa.....	.147	749.70	.40	1,200	9,900	122,732.79
3	Milwaukee Bridge Co., Milwaukee, Wis.....	.25	1,275.00	.50	1,500	8,500	134,007.50
4	Strobel Steel Construction Co., Chicago, Ill.....	.25	1,275.00	.60	1,800	9,700	147,779.60
5	Midland Bridge Co., Kansas City, Mo.....	.16	816.00	.60	1,800	12,000	170,461.00
6	Chicago Bridge and Iron Works, Chi- cago, Ill.....	.25	1,275.00	.50	1,500	12,000	171,635.00

a Contract entered into May 8, 1909.

Abstract of proposals for excavating and depositing about 7,500 cubic yards of material, received in response to public notice dated April 6, 1909, and opened April 17, 1909.

[Appropriation: Improving St. Marys River, Michigan, new lock and canal.]

No.	Name and address of bidder.	Price per cubic yard.	Aggregate of bid.
a 1	C. Talarico and Henry Watson, Sault Ste. Marie, Mich.....	\$0.39	\$2,925.00
2	Ambrose Grego, Sault Ste. Marie, Mich.....	.47	3,525.00
3	Bye & Moffatt, Sault Ste. Marie, Mich.....	.49 $\frac{1}{2}$	3,731.25
4	Jos. Tavern & Co., Sault Ste. Marie, Mich.....	.57 $\frac{1}{2}$	4,312.50
5	Louis Belanger, Sault Ste. Marie, Mich.....	.58	4,350.00
6	John P. Conrick, Sault Ste. Marie, Mich.....	.70	5,250.00

a Contract entered into April 23, 1909.

Abstract of proposals for furnishing and delivering about 80 tons of steel, etc., for canal gate, received in response to advertisement dated March 6, 1909, and opened March 26, 1909.

[Appropriation: Improving St. Marys River, Michigan, general improvement.]

No.	Name and address of bidder.	Aggregate of bid.
1	Minneapolis Steel and Machinery Co., Minneapolis, Minn.	\$6,614.25
2	Lawrence D. Weaning, Cleveland, Ohio	7,511.11
3	G. & W. Manufacturing Co., New York, N. Y.	7,821.00
4	J. & J. B. Miholland Co., Pittsburgh, Pa.	7,910.00
5	Grilliths Iron Works Co., St. Louis, Mo.	7,948.59
6	Milwaukee Bridge Co., Milwaukee, Wis.	8,210.57
7	Penn Bridge Co., Beaver Falls, Pa.	10,194.40
8	The Whitehead & Kales Iron Works, Detroit, Mich.	11,761.00

a Contract entered into April 10, 1909.

Abstract of proposals for dredging Rouge River, Michigan, received in response to advertisement dated April 12, 1909, and opened April 27, 1909.

[Appropriation: Improving Rouge River, Michigan.]

No.	Name and address of bidder.	Price per cubic yard.	Aggregate, 50,000 cubic yards.
1	G. H. Breymann & Bro., Toledo, Ohio	Cents. 15 $\frac{1}{2}$	\$7,750
2	Great Lakes Dredge and Dock Co., Chicago, Ill.	16	8,000
3	Detroit Dredging Co., Detroit, Mich.	16	8,000
4	Samuel O. Dixon, Milwaukee, Wis.	17	8,500

a Contract entered into May 1, 1909.

Abstract of proposals for dredging Black River at Port Huron, Mich., received in response to circular letter advertisement dated April 13, 1909, and opened April 28, 1909.

[Appropriation: Improving Black River at Port Huron, Mich.]

No.	Name and address of bidder.	Price per cubic yard.	Aggregate, 15,000 cubic yards.
1	The Central Dredging Co., Cleveland, Ohio	Cents. 12 $\frac{1}{2}$	\$1,875

a Contract entered into April 30, 1909.

Abstract of proposals for furnishing and delivering, at Sault Ste. Marie, Mich., iron fence, received in response to public notice dated March 22, 1909, and opened April 7, 1909.

[Appropriation: Improving St. Marys River, Michigan, general improvement.]

No.	Name and address of bidder.	Amount of bid.
1	F. E. Carpenter & Co., New York, N. Y.	\$1,178.92
2	The Ward Fence Co., Decatur, Ind.	1,649.00
3	Anchor Post Iron Works, New York, N. Y.	1,695.00
4	Russel Wheel and Foundry Co., Detroit, Mich.	1,769.00
5	do.	1,623.00
6	E. T. Barnum Wire and Iron Works, Detroit, Mich.	1,900.00

a Contract entered into May 7, 1909.

b Alternative.

Abstract of proposals for furnishing bolts, etc., received in response to public notice dated April 23, 1909, and opened May 14, 1909.

[Appropriation: Improving St. Marys River, Michigan, general improvement and new lock and canal.]

No.	Name and address of bidder.	Aggregate of bid.
1	J. Edward Ogden, New York, N. Y.	\$1,159.68
2	Pittsburg Rivet Co., Pittsburg, Pa.	1,181.04
3	The Soo Hardware Co., Sault Ste. Marie, Mich.	1,208.28
4	Michigan Bolt and Nut Works, Detroit, Mich.	1,253.81
5	Marshall Wells Hardware Co., Duluth, Minn.	1,320.95
6	G. & W. Mfg. Co., New York, N. Y.	1,359.92
7	Lawrence D. Weaning, Cleveland, Ohio.	1,391.08
8	American Bridge Co., Minneapolis, Minn.	1,596.00
9	J. & J. B. Milholland Co., Pittsburg, Pa.	1,749.62

a Contract entered into May 21, 1909.

Abstract of proposals for furnishing and delivering about 276,000 feet b. m. of fir timber, received in response to public notice dated April 10, 1909, and opened May 1, 1909.

[Appropriation: Improving St. Marys River, Michigan, general improvement.]

No.	Name and address of bidder.	Price per M.	Aggregate.
1	Newbegin Lumber Co., Tacoma, Wash.	\$8.90	\$2,456.40
2	E. H. Lewis Lumber Co., Seattle, Wash.	8.95	2,470.20
3	C. M. McCoy, Minneapolis, Minn.	9.00	2,484.00
4	Rogers-Ruger Lumber Co., Superior, Wis.	9.25	2,553.00
5	H. B. Waite Lumber Co., Minneapolis, Minn.	9.50	2,422.00
6	G. W. Gates & Co., Portland, Oreg.	9.75	2,791.00
7	G. Elias & Bro., Buffalo, N. Y.	9.95	2,746.20
8	W. G. De Haas, Marquette, Mich.	9.90	2,732.40
9	Lock City Manufacturing Co. (Limited), Sault Ste. Marie, Mich.	10.00	2,760.00
10	The Pike-Dial Lumber Co., Chicago, Ill.	10.00	2,700.00
11	The Soo Lumber Co., Sault Ste. Marie, Mich.	10.50	2,898.00
12	Portland Lumber Co., Portland, Oreg.	11.00	3,036.00
13	The Marsh & Bingham Co., Chicago, Ill.	11.50	3,174.00
14	Duluth Lumber Co., Duluth, Minn.	11.50	3,174.00

a Contract entered into May 11, 1909.

Abstract of proposals for furnishing and delivering about 80,000 feet b. m. of southern pine for canal gates, received in response to public notice dated August 20, 1908, and opened September 15, 1908.

[Appropriation: Improving St. Marys River, Michigan, general improvement.]

No.	Name and address of bidder.	Lot I.— Price per M feet b. m.	Lot II.— Price per M feet b. m.	Aggregate.
1	Tymon Lumber Co., Sault Ste. Marie, Mich.	\$35.50	\$63.00	\$4,131.39
2	G. Elias & Bro., Buffalo, N. Y.	37.50	65.00	4,290.63
3	Peninsula Bark and Lumber Co., Sault Ste. Marie, Mich.	50.00	80.00	5,404.50

a Contract entered into October 10, 1908.

Abstract of proposals for removing the wreck of the tug J. L. Higbie from Rouge River, Michigan, received in response to public notice dated September 22, 1908, and opened October 22, 1908.

[Appropriation: Removing sunken vessels or craft obstructing or endangering navigation, indefinite.]

No.	Name and address of bidder.	Amount.
1	Thompson Tug Co., Port Huron, Mich.	\$300
2	John D. Baker, Detroit, Mich.	390
3	Port Huron Transportation and Wrecking Co., Port Huron, Mich.	400
4	H. W. Baker, Detroit, Mich.	500

a Contract entered into October 29, 1908.

Abstract of proposals for furnishing and delivering about 400 cords of rock at St. Clair Flats Canal, Michigan, received in response to public notice dated September 18, 1908, and opened September 30, 1908.

[Appropriation: Operating and care of canals and other works of navigation, indefinite. Allotment for St. Clair Flats Canal, Michigan.]

No.	Name and address of bidder.	Price per cord.	Amount.
a 1	H. Houghten, Detroit, Mich.	\$8.30	\$3,320
2	Dunbar Stone Co., Detroit, Mich.	9.25	3,700

a Contract entered into October 1, 1908.

Abstract of proposals for furnishing and delivering at Sault Ste. Marie, Mich., bolts and rods, received in response to public notice dated October 20, 1908, and opened November 2, 1908.

[Appropriation: Improving St. Marys River, Michigan, general improvement and new lock and canal.]

No.	Name and address of bidder.	Amount of bid.
a 1	J. Edward Ogden, New York, N. Y.	\$3,144.12
b 2	J. Edward Ogden, New York, N. Y.	3,101.15
3	William B. Hough & Co., Chicago, Ill.	3,183.63
4	Cambria Steel Co., Philadelphia, Pa.	3,226.91
5	Michigan Bolt and Nut Works, Detroit, Mich.	3,259.80
6	The General Fireproofing Co., Youngstown, Iowa.	3,375.83
7	Soo Hardware Co., Sault Ste. Marie, Mich.	3,470.83
8	Soo Hardware Co., Sault Ste. Marie, Mich.	3,496.97
9	G. & W. Manufacturing Co., New York, N. Y.	3,624.80

a Contract entered into November 18, 1908.

b Informal.

Abstract of proposals for making repairs to tug Sapper, received in response to public notice dated November 16, 1908, and opened November 30, 1908.

[Appropriation: Harbor of Refuge, Harbor Beach, Mich.]

No.	Name and address of bidder.	Amount.
a 1	F. J. Smith & Son, Port Huron, Mich.	\$3,072
2	Gilmore Bros., Toledo, Ohio.	3,495
3	Walter H. Oades, Detroit, Mich.	4,000
4	Detroit Shipbuilding Co., Detroit, Mich.	5,567

a Contract entered into December 10, 1908.

Abstract of bids for building wooden tug, received in response to advertisement dated December 21, 1908, and opened January 21, 1909.

[Appropriation: Improving Hay Lake and Neebish channels, St. Marys River.]

No.	Name and address of bidder.	Amount.
a 1	Francis X. Payment, Sault Ste. Marie, Mich.	\$7,668.50
2	Reiboldt, Wolter & Co., Sturgeon Bay, Wis.	7,700.00
3	James Pular and Robert H. Luckes, Sault Ste. Marie, Mich.	8,478.86
4	M. P. McDonagh, Seaford, Del.	11,144.00
5	Racine Boat Manufacturing Co., Muskegon, Mich.	11,500.00
6	Walter H. Oades, Detroit, Mich.	13,000.00

a Contract entered into February 9, 1909.

Abstract of proposals for making alterations and repairs to sweep scow, received in response to public notice dated January 9, 1909, and opened January 20, 1909.

[Appropriation: Improving Detroit River, Michigan, Livingstone Channel.]

No.	Name and address of bidder.	Amount.
a 1	Detroit Shipbuilding Co., Detroit, Mich.	\$2,800
2	The Whitehead & Kales Iron Works, Detroit, Mich.	2,975
3	Henry B. Lewis, Detroit, Mich.	3,158

a Contract entered into January 29, 1909.

Abstract of proposals for furnishing and delivering about 5,000 cubic yards of clay, received in response to public notice dated November 30, 1908, and opened December 15, 1908.

[Appropriation: Improving St. Marys River, Michigan, general improvement and new lock and canal.]

No.	Name and address of bidder.	Price per cubic yard.		Aggregate of bid.	
		A.	B.	A.	B.
1	Alex. Moffatt, Sault Ste. Marie, Mich.	\$0.44	\$0.44	\$2,200.00	\$2,200.00
2	Louis Belanger, Sault Ste. Marie, Mich.	.47	-----	2,350.00	-----
3	Alexander McArthur, Sault Ste. Marie, Mich.	.48 ³	.49 ³	2,437.50	2,487.50
4	James Rye, Sault Ste. Marie, Mich.	.53	.55	2,650.00	2,750.00
5	Thos. J. Bye, Sault Ste. Marie, Mich.	.54	.56	2,700.00	2,800.00
6	Henry Watson, Sault Ste. Marie, Mich.	.57	-----	2,850.00	-----
7	A. McKechnie, Sault Ste. Marie, Mich.	.57	.58	2,850.00	2,900.00
8	William White, Sault Ste. Marie, Mich.	.61	.63	3,050.00	3,150.00
9	Thos. Tackaberry, Sault Ste. Marie, Mich.	.69	.95	3,450.00	4,750.00
10	Carmine Talarico, Sault Ste. Marie, Mich.	.74	-----	3,700.00	-----

a Contract entered into December 24, 1908.

Abstract of proposals for hire of tug, received in response to public notice dated March 5, 1909, and opened March 20, 1909.

[Appropriation: Improving Detroit River, Michigan.]

No.	Name and address of bidder.	Name of tug.	Price bid per day.
1	Hackett Towing and Wrecking Co., Detroit, Mich.	D. N. Runnels	\$23
2	L. S. Sullivan, Toledo, Ohio.	Pallister	24
3	Hackett & Crumrine, Detroit, Mich.	John E. Monk	25
4	Benj. L. Cowles, Buffalo, N. Y.	E. C. Knight	28
5	Isaac Zess, Sault Ste. Marie, Mich.	Wayne Isabell	28
6	Thompson Tug Co., Port Huron, Mich.	J. W. Westcott	30
7	Wellington McMinn, Cleveland, Ohio.	Major Symons	40

a Tug *D. N. Runnels* is not entirely adapted to the work on account of lack of power, it being a decided advantage at times to have a tug with greater power.

b Contract entered into March 29, 1909.

CLEVELAND (OHIO) DISTRICT.

[Officer: Lieut. Col. John Millis, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging Toledo Harbor, Ohio, received and opened by Lieut. Col. John Millis, Corps of Engineers, on July 30, 1908, at Cleveland, Ohio, in accordance with advertisement dated July 17, 1908.

[Appropriation for improving harbor at Toledo, Ohio.]

No.	Name and address of bidder.	Prices bid, per cubic yard, scow measurement.			Remarks.
		Outer division.	Middle division.	Inner division.	
1	Great Lakes Dredge and Dock Co., Chicago, Ill.	\$0.249	\$0.35	\$0.30	
2	G. H. Breymann & Bro., Toledo, Ohio,	(a)	(a)	.33	
3	The Standard Contracting Co., Cleveland, Ohio.	(a)	.26	(a)	The proposal of the Standard Contracting Co. was not received until about 15 minutes after 2 o'clock p. m., the time set for opening bids. The bid is not dated. No evidence is furnished to show that Thomas Robinson, secretary, is authorized to sign for the company.

a No bid.

Abstract of proposals for dredging Toledo Harbor, Ohio, received and opened by Lieut. Col. John Millis, Corps of Engineers, on August 17, 1908, at Cleveland, Ohio, in accordance with advertisement dated August 7, 1908.

[Appropriation for improving harbor at Toledo, Ohio.]

No.	Name and address of bidder.	Prices bid, per cubic yard, scow measurement.			Remarks.
		Outer division.	Middle division.	Inner division.	
1	Duluth Marine Contracting Co., Duluth, Minn.	\$0.235	\$0.21	\$0.255	Evidence of authority for Edward M. Gaylord, secretary and treasurer, to sign for the company is not in proper form. Bid is not dated.
2	Breymann Bros., Toledo, Ohio.	.20	(a)	(a)	No evidence of authority furnished for signature by Thomas Robinson, secretary. No corporate seal affixed. Complete address not stated.
3	The Standard Contracting Co., Cleveland, Ohio.	(a)	.23	.22	
4	Great Lakes Dredge and Dock Co., Chicago, Ill.	.225	.24	.26	
5	The Central Dredging Co., Cleveland, Ohio.	.24	.19	.19	No evidence of authority furnished for signature by E. M. Graves, president. No corporate seal affixed. On fourth line of guaranty the date is omitted. Bidder names December 1, 1909, as date of completion instead of the date specified.
6	The Fitz Simons & Connell Co., Chicago, Ill.	.245	.33	.29	No evidence of authority furnished for signature by C. J. Connell, president. No corporate seal. Request was received by telegraph and by long-distance telephone that the bid be not opened and read; but under paragraph 10, Instructions to bidders, the request could not be complied with.

a No bid.

Abstract of proposals for constructing a wharf at Cleveland, Ohio, received and opened by Lieut. Col. John Millis, Corps of Engineers, on September 28, 1908, at Cleveland, Ohio, in accordance with advertisement dated September 7, 1908.

[Appropriation for improving harbor at Cleveland, Ohio.]

No.	Name and address of bidder.	Amount of bid.	Remarks.
1	The Standard Contracting Co., Cleveland, Ohio.	\$124,753	No copy of records furnished to show authority for signature by Thomas Robinson, secretary. Corporate seal not affixed. Date omitted from fourth line of guaranty.
2	E. M. Graves, Cleveland, Ohio.....	128,287	Date omitted from fourth line of guaranty on one copy.
3	Great Lakes Dredge and Dock Co., Chicago, Ill.	83,735	Lowest bid received.
4	The Hunkin Bros. Construction Co., Cleveland, Ohio.	109,800	No copy of records furnished to show authority for signature by G. E. Conkey, president and secretary.
5	The C. H. Fath & Son Construction Co., Cleveland, Ohio.	94,765	No copy of records furnished to show authority for signature by C. P. Ruple, secretary and treasurer.
6	Coast and Interior Contracting Co. (No address given.)	92,000	No copy of records furnished to show authority for signature by Patrick H. Keohane, president. Post-office address not given.
7	A. F. Chapman & Co., Buffalo, N. Y..	83,900	No address given at head of proposal. Not properly signed. Proposal opened at 10:35 a. m., was received before 10 a. m., but was overlooked.

The amendment to specifications, dated September 23, 1908, not attached to proposals Nos. 1, 2, 3, 5, 6, and 7.

Abstract of proposals for extending and repairing west outer breakwater at Ashtabula Harbor, Ohio, received and opened by Lieut. Col. John Millis, Corps of Engineers, at Cleveland, Ohio, on June 28, 1909, in accordance with advertisement dated June 7, 1909.

[Appropriations for improving harbor at Ashtabula, Ohio.]

No.	Name and address of bidder.	Quarry-run stone. Price bid, per ton.	Remarks.
1	Great Lakes Construction Co., Buffalo, N. Y.	\$1.49	Authority for D'Arcy W. Roper, secretary, to sign for the company is not furnished.
2	Coast and Interior Contracting Co., Fayetteville, N. Y.	1.90	Authority for Patrick H. Kehane, president, to sign for the company is not furnished.
3	The Breakwater Co., Cleveland, Ohio.	1.65	Authority for T. A. Barnaby, president, and J. R. Geary, secretary, to sign for the company is not furnished.
4	Great Lakes Dredge and Dock Co., Chicago, Ill.	1.65	Not stated that Wm. J. McCarthy, secretary, is custodian of records.
5	The Edward Gillen Dock, Dredge and Construction Co., Racine, Wis.	1.45	Evidence of authority for Edward Gillen, president, to sign for the company is not in proper form. Lowest bid received.

Abstract of proposals for dredging Cleveland Harbor, Ohio, received and opened by Lieut. Col. John Millis, Corps of Engineers, at Cleveland, Ohio, on June 28, 1909, in accordance with advertisement dated June 7, 1909.

[Appropriation for improving harbor at Cleveland, Ohio.]

No.	Name and address of bidder.	Price bid, per cubic yard.	Remarks.
1	The Duluth Marine Contracting Co., Duluth, Minn.	\$0.205	Date and manner of election of Kenwick B. Knox, president of the company is not shown. Title of officer signing for the company is omitted on one copy of proposal. Not stated that Edward M. Gaylord, secretary, is custodian of records.
2	Great Lakes Dredge and Dock Co., Chicago, Ill.	.17	Not stated that Wm. J. McCarthy is custodian of records.
3	G. H. Breymann & Bro., Toledo, Ohio.	.20	
4	The Buffalo Dredging Co., Buffalo, N. Y.	.21	Authority of Samuel J. Dark, secretary, to sign for the company is not furnished.

Complete address not given after signature. Proposals Nos. 1, 2, 3, and 4.

BUFFALO (N. Y.) DISTRICT.

[Officer: Col. W. L. Fisk, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for construction of stone breakwater at Buffalo, N. Y., received in response to advertisement of March 15, 1909, and opened April 15, 1909, at Buffalo, N. Y., by Col. W. L. Fisk, Corps of Engineers.

[Improving harbor at Buffalo, N. Y., Stony Point Breakwater.]

No.	Name and address of bidder.	Rubble stone (12,275 tons).	Capping stone (14,425 tons).	Total.
		Per ton.	Per ton.	
1	Joseph Dunfee, Syracuse, N. Y.	\$1.18	\$2.87	\$55,884.25
2	The Breakwater Co., Cleveland, Ohio.	1.30	2.45	51,298.75
3	MacArthur Brothers Co., New York, N. Y.	2.47	4.10	89,461.75
4	Great Lakes Construction Co., Buffalo, N. Y.	1.30	3.74	69,907.00

a Contract made.

Estimate, \$52,336.

Abstract of proposals for construction of timber-concrete pier at Dunkirk Harbor, N. Y., opened at Buffalo, N. Y., June 29, 1909, by Col. W. L. Fisk, Corps of Engineers.

[Preservation and maintenance of River and Harbor Works, Dunkirk Harbor, New York.]

No.	Name of bidder.	Removing old pier (80 linear feet).	Hemlock timber (15,260 feet).	Bolts and spikes (2,200 pounds).	Concrete blocks (35 cubic yards).	Concrete mass (200 cubic yards).	Total.
1	Great Lakes Construction Co., Buffalo, N. Y.	\$1,200.00	Per M ft.	Per lb.	Per cu.yd.	Per cu.yd.	
2	Tiffany & Gail, Buffalo, N. Y.	2,750.00	\$10.00	\$0.05 $\frac{1}{2}$	\$14.00	\$10.00	\$4,574.00
3	Chas. L. Sherril, Buffalo, N. Y.	1,200.00	65.00	.4	20.00	10.00	6,529.90
4	Knobloch & Shelton, Erie, Pa.	1,588.00	70.00	.5	12.00	9.00	4,598.20
			42.00	.4 $\frac{7}{10}$	12.00	9.90	4,732.32

^a Emergency contract made.

Estimate, \$5,000.

WRECK.

Abstract of proposals for removing wreck of scow Trader from Niagara River, opened at Buffalo, N. Y., September 15, 1908, by Col. W. L. Fisk, Corps of Engineers.

No.	Name of bidder.	Removing wreck complete.
1	Great Lakes Construction Co., Buffalo, N. Y.	\$800
2	Louis Harbrecht, Buffalo, N. Y.	1,200
3	E. G. Williams, Port Colborne, Ontario	1,705

^a Contract made.

Estimate, \$2,000.

OSWEGO (N. Y.) DISTRICT.

[Officer: Col. W. L. Fisk, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for stone for Oswego breakwater under advertisement of February 1, 1909, opened at Buffalo, N. Y., February 20, 1909, by Col. W. L. Fisk, Corps of Engineers.

[Improving harbor at Oswego, N. Y.]

No.	Name of bidder.	Riprap stone (60,000 tons).	Where to be delivered.	On boats or cars.	Total.
1	F. E. Conley Stone Co., Utica, N. Y.	Per ton.			
2	Joseph Leopold, New York, N. Y.	\$0.78	Munns, N. Y.	Cars.....	\$46,800
3	Adams & Duford Co., Chaumont, N. Y.	.75	Alexandria Bay, N. Y.	Either.....	45,000
4	Rock Cut Stone Co., Syracuse, N. Y.	.70	Chaumont, N. Y.	.....do.....	42,000
5	Picton Island Red Granite Co., New York, N. Y.	1.45	Syracuse, N. Y.	Cars.....	87,000
		.75	Picton Island.....	Boats.....	45,000

^a Formal contract made.

Estimate, 80 cents per ton.

LOS ANGELES (CAL.) DISTRICT.

[Officer: Capt. Amos A. Fries, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids for dredging at San Diego Harbor, California, received in response to advertisement of May 5, 1909, and opened at Los Angeles, Cal., at 11 a. m., June 4, 1909, by Capt. Amos A. Fries, Corps of Engineers.

[Appropriation: Improving harbor at San Diego, Cal.]

No.	Name and address of bidder.	Price per cubic yard.	Cubic yards.
1	San Francisco Bridge Co.	\$0.43	67,441
^a 2	Spreckels Bros. Commercial Co.	.29	100,000
3	California Reclamation Co. ^b	.2874	100,904

^a Bid contingent on permission to repair and use United States dredge *William S. Ladd*.^b Authority of others to sign for company not filed with bids.

Abstract of bids for furnishing crude oil at San Pedro, Cal., received in response to advertisement of May 13, 1909, and opened at Los Angeles, Cal., at 11 a. m., June 12, 1909, by Capt. Amos A. Fries, Corps of Engineers.

[Appropriation: Improving harbor at Wilmington, Cal.]

No.	Name and address of bidder.	Gravity.	Price per barrel.	Total, 20,000 barrels.
^a 1	H. S. Botsford, Los Angeles, Cal.	17° to 19°	\$1.00	\$20,000
2	Standard Oil Co., San Francisco, Cal.	14° to 18°	1.00	20,000

^a Certified check furnished as guarantee.

SAN FRANCISCO (CAL.) FIRST DISTRICT.

[Officer: Maj. C. H. McKinstry, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for hiring a gasoline launch received in response to circular dated October 17, 1908, and opened October 21, 1908, at San Francisco, Cal.

Name and address of bidder.	Dimensions.			Price per day.
	Length.	Width.	Draft.	
M. Lange, Sausalito, Cal.	40	10	4	\$15.00
Crowley Launch and Tugboat Co., San Francisco, Cal.	40	10	2 $\frac{1}{2}$	10.00
John A. Picone, San Francisco, Cal.	40	10	2 $\frac{1}{2}$	12.50
G. M. Penn, San Francisco, Cal.	26	7 $\frac{1}{2}$	3 $\frac{1}{2}$	8.00
	30	8	2	10.00

Abstract of proposals for hiring a gasoline boat received in response to circular dated January 15, 1909, and opened January 25, 1909, at San Francisco, Cal.

Name and address of bidder.	Dimensions.			Price per day.
	Length.	Width.	Draft.	
John A. Picone, San Francisco, Cal.	Feet.	Feet.	Feet.	
	26	7 $\frac{1}{2}$	3	\$10.00
Henry C. Petersen, San Francisco, Cal.	49	15	4 $\frac{1}{2}$	20.00
G. M. Penn, San Francisco, Cal.	30	8	2	15.00
Crowley Launch and Tugboat Co., San Francisco, Cal.	36	9	3	10.00
	40	11	3	12.50
	37	9 $\frac{1}{2}$	3 $\frac{1}{2}$	15.00
	45	10	4	20.00
M. Lange, Sausalito, Cal.	40	10	4	15.00

Abstract of proposals for furnishing 1,400 barrels of American Portland cement received in response to circular of March 12, 1909, and opened March 22, 1909, at San Francisco, Cal.

Name and address of bidder.	Brand of cement.	Price per barrel, free of duty	Total.	
Pacific Portland Cement Co. (Consolidated), San Francisco, Cal.	Golden Gate.....	\$2.45	\$3,430	
G. W. McNear, San Francisco, Cal.	Red Devil.....	a 2.81	3,934	
Balfour, Guthrie & Co., San Francisco, Cal.	Golden Gate.....	2.45	3,430	
The Lilley & Thurston Co., San Francisco, Cal.	Napa or Davenport.....	a 2.35	3,290	
The Holmes Lime Co. (Incorporated), San Francisco, Cal.	Golden Gate.....	2.45	3,430	
Santa Cruz Portland Cement Co., San Francisco, Cal.	Davenport.....	2.45	3,430	
Standard Portland Cement Corporation, San Francisco, Cal.	Napa.....	2.45	3,430	
Girvin & Eyre, San Francisco, Cal.	Golden Gate.....	2.45	3,430	

a Sacks not paper lined.

Ten cents rebate, in each case, on all sacks returned in good condition.

Abstract of proposals for furnishing 1,900 square yards of corrugated rubber matting received in response to circular of April 30, 1909, and opened May 11, 1909, at San Francisco, Cal.

Name and address of bidder.	Brand of matting.	Number pounds per square yard.	Price per pound.	Total.	
Goodyear Rubber Co., San Francisco, Cal.	Sample A.....	8 $\frac{1}{2}$	14	\$2,261.00	
	Sample B.....	8 $\frac{1}{2}$	11 $\frac{1}{2}$	1,857.25	
Bowers Rubber Works, San Francisco, Cal.	Sunset A or B.....	8 $\frac{1}{2}$	10	1,615.00	
Gorham Rubber Co., San Francisco, Cal.	Seal Rock.....	7 $\frac{1}{2}$	14	1,995.00	
Revere Rubber Co., San Francisco, Cal.	Live Oak.....	7	16	2,128.00	
	No. 1.....	8 $\frac{1}{2}$	15 $\frac{1}{2}$	2,503.25	
	No. 2.....	8 $\frac{1}{2}$	11 $\frac{1}{2}$	1,897.63	
		8 $\frac{1}{2}$	20	3,230.00	

Abstract of proposals for furnishing 241.25 square feet of perforated rubber mats received in response to circular of April 30, 1909, and opened May 11, 1909, at San Francisco, Cal.

Name and address of bidder.	Price per square foot.	Total.	
Goodyear Rubber Co., San Francisco, Cal.	42	\$101.33	
Bowers Rubber Works, San Francisco, Cal.	60	144.75	
Gorham Rubber Co., San Francisco, Cal.	53	127.86	
Revere Rubber Co., San Francisco, Cal.	60	144.75	

Abstract of proposals for furnishing 425 barrels of American Portland cement, received in response to circular of May 14, 1909, and opened May 24, 1909, at San Francisco, Cal.

Name and address of bidder.	Brand.	Price per barrel, free of duty.					
		F. o. b. wharf, Fort Baker.		F. o. b. water on wharf.		City front on cars.	
		Price.	Amount.	Price.	Amount.	Price.	Amount.
Balfour, Guthrie & Co., San Francisco, Cal.	Golden Gate....	\$2.70	\$1,147.50	\$2.55	\$1,083.75	\$2.45	\$1,041.25
The Lilley & Thurston Co., San Francisco, Cal.	Santa Cruz or Standard.	2.60	1,105.00	2.55	1,083.75	2.45	1,041.25
Henry Cowell Lime and Cement Co., San Francisco, Cal.	Mount Diablo....	2.65	1,126.25	2.55	1,083.75	2.45	1,041.25
Santa Cruz Portland Cement Co., San Francisco, Cal.	Davenport....	2.60	1,105.00	2.55	1,083.75	2.45	1,041.25
Standard Portland Cement Co., San Francisco, Cal.	Napa.....	2.60	1,105.00	2.55	1,083.75	2.45	1,041.25
Pacific Portland Cement Co. (Consolidated), San Francisco, Cal.	Golden Gate....	2.60	1,105.00	2.55	1,083.75	2.45	1,041.25

Ten cents rebate in each case on all sacks returned in good condition.

Abstract of proposals for renting offices for use of the district engineer officer in charge of fortifications and the engineer of twelfth light-house district, received in response to circular of April 24, 1909, and opened May 27, 1909.

Name and address of bidder.	Name of building.	Number of rooms.	Total square feet.	Total price per month.
First Federal Trust Co., San Francisco, Cal.....	First National Bank.....	6	2,580	\$367.00
Western Real Estate Co., San Francisco, Cal.....	Hooker and Lent.....	9	2,250	250.00
Realty, Dock, and Improvement Corporation, San Francisco, Cal.	Monadnock.....	12	2,601	285.00
M. H. de Young, San Francisco, Cal.....	Chronicle.....	11	2,170	325.00
M. E. Carroll, F. A. Carroll, San Francisco, Cal.....	Shawmut.....	13	2,735	385.00
Chas. T. Crocker and Jennie A. Crocker, San Francisco, Cal.	Postal Telegraph.....	14	2,220	177.50
Thos. Jennings, Annie Jennings, and Mary Kingston, San Francisco, Cal.	Consular.....	10	2,947	300.00
Santa Marina Co., San Francisco, Cal.....	Santa Marina.....	11	2,638	205.00
Wells, Fargo Co., San Francisco, Cal.....	Wells-Fargo.....	8	2,473	192.00
David Hewes, San Francisco, Cal.....	Hewes.....	7	2,599	205.00
Phelan Improvement Co., San Francisco, Cal.....	Phelan.....	7	2,623	207.50
		7	2,567	202.50
		15	2,796	335.52
		9	2,656	336.00
		9	2,384	304.50
		10	2,699	349.50
		9	2,580	283.80

Abstract of proposals for furnishing 19,500 duct feet of underground fiber conduit, received in response to circular of May 29, 1909, and opened June 8, 1909.

Name and address of bidder.	Quantity and price.	Amount.
Pierson, Roeding & Co., San Francisco, Cal. ^a	10,000 ^b feet, delivered San Francisco, \$0.063.....	\$630.00
	9,500 ^b feet, delivered San Francisco, \$0.063.....	598.50
		1,228.50
	10,500 ^b feet, delivered San Francisco, \$0.063.....	630.00
	9,500 ^c feet, delivered Sausalito, \$0.065.....	617.50
		1,247.50

^a Only bid received.

^b If amount increased 20 per cent, price will be \$0.061 per foot.

^c If amount increased 20 per cent, price will be \$0.063 per foot.

SAN FRANCISCO (CAL.), SECOND DISTRICT.

[Officer: Lieut. Col. John Biddle, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids received for dredging in Stockton Channel, California, in answer to advertisement dated May 12, 1909, and opened by Lieut. Col. John Biddle, Corps of Engineers, San Francisco, Cal., at 12 o'clock noon, Monday, June 14, 1909.

[Appropriation: Preservation and maintenance of river and harbor works. For San Joaquin River, California.]

Name and address of bidder.	Price per cubic yard.	Total for 180,000 cubic yards.
(1) Standard American Dredging Co., Merchants Exchange Building, San Francisco, Cal.	Cents.	
	10.74	\$19,332
(2) American Dredging Co., 95 Market street, San Francisco, Cal.	11.75	21,150
(3) San Francisco Bridge Co., Monadnock Building, San Francisco, Cal.	13.4	24,120
(4) J. S. McAnany, 6 East street, San Francisco, Cal.	16	28,800

Abstract of bids for constructing a diverting canal north and east of Stockton, Cal., received in response to advertisement dated June 8, 1908, and opened at San Francisco, Cal., at 12 o'clock m., Wednesday, July 8, 1908, by Lieut. Col. John Biddle, Corps of Engineers.

[Appropriation: Improving Stockton and Mormon channels, California.]

	Calaveras section.					
	Excavating and building levees.		Lower Sacramento road bridge.	Cooper's or West's bridge.	Extending Central Pacific railroad bridge.	Total.
	Per yard.	Total.				
(1) F. S. Boggs.						
(2) American Dredging Co.	\$0.175	\$100,117.50	\$2,600	\$1,950	\$1,500	\$105,567.50
(3) Flynn & Treacy.						
(4) Chadwick & Sykes.						
(5) Ed Malley.	.1475	84,384.75	2,280	2,380	1,000	90,044.75
(6) Lewis Moreing.	.14	80,094.00	1,722	1,762	900	84,478.00
(7) San Francisco Bridge Co.	.13	74,373.00	1,700	1,800	1,100	78,973.00
(8) Mahoney Bros.						
(9) California Reclamation Co.	.1197	68,480.37	1,520	1,520	1,000	72,520.37
(10) Standard American Dredging Co.						
(11) J. C. Franks.	.16	91,536.00	2,250	2,250	900	90,936.00

	Canal section.							
	All on one side.		Two-thirds on one side.		Copperopolis.	Linden.	Waterloo.	Cherokee.
	Per yard.	Total.	Per yard.	Total.				
(1) F. S. Boggs.			\$0.1995	\$141,379.95	\$1,890	\$2,100	\$1,680	\$1,575
(2) American Dredging Co.	\$0.18	\$150,138.00	.175	145,917.50	2,000	2,500	2,250	2,000
(3) Flynn & Treacy.	.24	200,184.00	.20	166,820.00	1,952	2,150	1,710	1,660
(4) Chadwick & Sykes.			.2375	198,098.75	2,000	2,100	1,700	1,600
(5) Ed Malley.	.22	183,502.00	.175	145,917.50	2,110	2,400	1,920	2,100
(6) Lewis Moreing.	.24	200,184.00	.19	158,479.00	2,223	2,441	1,898	1,878
(7) San Francisco Bridge Co.	.165	137,126.50	.1625	135,541.25	2,100	2,300	1,900	1,700
(8) Mahoney Bros.	.185	154,308.50	.1775	148,052.75	2,400	2,600	2,200	2,000
(9) California Reclamation Co.								
(10) Standard American Dredging Co.	.155	129,285.50	.14	116,774.00	1,623	1,753	1,493	1,429
(11) J. C. Franks.			.18	150,138.00	2,700	3,000	2,400	2,250

Abstract of bids for constructing a diverting canal north and east of Stockton, Cal., received in response to advertisement dated June 8, 1908—Continued.

	Canal section.				Calaveras and canal section grand total.	
	Stockton and Copperopolis railroad bridge.	Bulk-head.	All on one side.	Two-thirds on one side.	All on one side of canal and Calaveras.	Two-thirds on one side of canal and Calaveras.
(1) F. S. Boggs.....	\$5,500	\$1.50	.....	\$154,229.95	(a)	b \$154,229.95
(2) American Dredging Co.....	8,000	(a)	(c)	(c)	d \$105,507.50	(a)
(3) Flynn & Treacy.....	5,500	1.50	\$213,311.00	179,947.00	b 213,311.00	b 179,947.00
(4) Chadwick & Sykes.....	6,500	2.00	.....	212,138.75	(c)	b 212,138.75
(5) Ed Malley.....	6,000	2.00	198,222.00	110,187.50	288,266.75	250,732.25
(6) Lewis Moreing.....	5,500	2.00	214,2 4.00	172,559.00	298,742.00	257,037.00
(7) San Francisco Bridge Co.....	7,000	2.50	152,801.50	150,716.25	231,774.50	229, (89.25)
(8) Mahoney Bros.....	5,500	200.00	183,008.50	176,752.75	b 183,008.50	b 176,752.75
(9) California Reclamation Co.....	.....	.....	.....	.....	d 72,520.37	(a)
(10) Standard American Dredging Co.....	5,500	2.00	141,223.50	128,712.00	b 141,223.50	b 128,712.00
(11) J. C. Franks.....	5,500	3.00	.....	166,198.00	(a)	203,134.00

^a No bid.^b No bid on Calaveras.^c No bid on bulkhead.^d No bid on canal.

Abstract of bids for building a highway bridge over the Diverting Canal, east of Stockton, Cal., received in answer to poster and circular letters dated June 1, 1909, and opened by Lieut. Col. John Biddle, Corps of Engineers, San Francisco, Cal., at 12 o'clock noon, Tuesday June 15, 1909.

[Improving Stockton and Mormon channels, California.]

Name and address.	Price for building bridge.	Price per cubic yard for grading approaches.	Total amount of bid.
(1) San Francisco Bridge Co., 865 Monadnock Building, San Francisco, Cal.....	\$2,650	50	\$2,850
(2) Mervy Elwell Co., Eleventh avenue, East Oakland, Cal.....	1,935	50	2,135
(3) Darby Laydon, 219 Steuart street, San Francisco, Cal.....	2,700	75	3,000
(4) Healy-Tibbets Construction Co., 268 Market street, San Francisco, Cal.....	3,440	98	3,832
(5) M. B. White, Stockton, Cal.....	1,998	48	2,190
(6) H. Waite, 29 East Channel street, Stockton, Cal.....	2,649	25	2,749

Abstract of bids for dredging in Oakland Harbor, California, received in answer to advertisement dated July 14, 1908, and opened by Lieut. Col. John Biddle, Corps of Engineers, at San Francisco, Cal., at 12 o'clock noon, Friday, August 14, 1908.

[Appropriation: Improving harbor at Oakland, Cal.]

Name and address.	Price per cubic yard.	Section A.	Section B.	Sections A and B.
		Total for 629,400 cubic yards.	Total for 1,138,700 cubic yards.	Total for 1,768,100 cubic yards.
(1) Pacific Coast Dredging and Reclamation Co., 6 East street, San Francisco, Cal.....	18	\$113,292.00	\$204,966.00	\$318,258.00
(2) C. H. Gish, 1682 San Jose avenue, San Francisco, Cal.....	18 $\frac{1}{2}$	116,439.00	210,659.50	327,098.50
(3) Nicholas R. Harris, 95 Market street, San Francisco, Cal.....	29 $\frac{7}{10}$	187,246.50	338,763.25	526,009.75
(4) North American Dredging Co., Merchants' Exchange Building, San Francisco, Cal.....	32 $\frac{1}{2}$	204,555.00	370,077.50	574,632.50

Abstract of bids for dredging in Petaluma Creek, California, received in answer to advertisement by poster and circular letters, dated April 23, 1909, and opened by Lieut. Col. John Biddle, Corps of Engineers, San Francisco, Cal., at 12 o'clock noon, April 28, 1909.

[Appropriation: Improving Petaluma Creek and Napa River, California.—For Petaluma Creek, California.]

Name and address.	Price per cubic yard.	Total for 12,000 cubic yards.
(1) J. S. McAnany, 6 East street, San Francisco, Cal.....	<i>Cents.</i> 17 $\frac{1}{2}$	\$2,100.00
(2) Bay and River Dredging Co., 24 California street, San Francisco, Cal.....	17 $\frac{3}{10}$	2,148.00

Abstract of bids for dredging in Oakland Harbor, California, received in answer to advertisement dated November 12, 1908, and opened by Lieut. Col. John Biddle, Corps of Engineers, at San Francisco, Cal., at 12 o'clock noon, Saturday, December 12, 1908.

[Appropriation: Improving harbor at Oakland, Cal.]

Name and address.	Price per cubic yard.	Section A: Total for 629,400 cubic yards.	Section B: Total for 1,138,700 cubic yards.	Sections A and B: Total for 1,768,100 cubic yards.
(1) N. R. Harris, 95 Market street, San Francisco, Cal ...	<i>Cents.</i> 29 $\frac{7}{10}$	\$186,931.80	\$338,193.90	\$525,125.70
(2) R. A. Perry, San Francisco, Cal.....	30 $\frac{3}{10}$	194,484.60	351,858.30	546,342.90
(3) Pacific Coast Dredging and Reclamation Co., 6 East street, San Francisco, Cal.....	31	195,114.00	352,997.00	548,111.00
(4) Burrell Bridge and Construction Co., Oakland, Cal...	36 $\frac{9}{10}$	232,248.60	420,180.30	652,428.90

Abstract of bids for dredging in Petaluma Creek, California, received in answer to advertisement by poster and circular letters dated March 22, 1909, and opened by Lieut. Col. John Biddle, Corps of Engineers, U. S. Army, San Francisco, Cal., at 12 o'clock noon, March 27, 1909.

Appropriation: Improving Petaluma Creek and Napa River, California.—For Petaluma Creek, California.]

Name and address.	Price per cubic yard.	Total for 10,247 cubic yards.
(1) United Iron Works, Oakland, Cal.....	<i>Cents.</i> 27 $\frac{1}{2}$	\$2,817.92
(2) J. S. McAnany, 6 East street, San Francisco, Cal.....	13 $\frac{1}{2}$	1,383.34

SAN FRANCISCO (CAL.) THIRD DISTRICT.

[Officer: Capt. Thos. H. Jackson, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing groceries, etc., received and opened at San Francisco, Cal., on March 2, 1909, by Capt. Thos. H. Jackson, Corps of Engineers.

Names and addresses of bidders.	Total amount.
Lindley & Co., Sacramento, Cal. ^a	\$1,120.52
Adams-Booth Co., Sacramento, Cal.....	1,256.50

^a Accepted.

Abstract of proposals for furnishing vegetables, etc., received and opened at San Francisco, Cal., on March 3, 1909, by Capt. Thos. H. Jackson, Corps of Engineers.

Names and addresses of bidders.	Total amount.
William A. Crutis, Sacramento, Cal. ^a McMillin-Gordon Co., Sacramento, Cal.....	\$740.36 762.39

a Accepted.

Abstract of proposals for furnishing meats, etc., received and opened at San Francisco, Cal., on March 4, 1909, by Capt. Thos. H. Jackson, Corps of Engineers.

Name and address of bidder.	Total.
Schmidt & Parker Packing Co. ^a	\$1,096.75

a Accepted.

PORLAND (OREG.), FIRST DISTRICT.

[Officer: Maj. J. F. McIndoe, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for excavation, concrete, masonry work, etc., for constructing a portion of the Dalles-Celilo Canal in connection with the work of improving Columbia River at Three-Mile Rapids, Oregon and Washington, received in response to advertisement dated August 1, 1908, and opened at United States engineer office, Portland, Oreg., August 31, 1908.

Bidder.	Excavation, solid rock (320,000 cubic yards).		Excavation, sand (165,000 cubic yards).		Excavation, common (165,000 cubic yards).		Concrete (13,000 cubic yards).		Rubble masonry (4,000 cubic yards).	
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.
1 North American Dredging Co., Portland, Oreg.....	\$1.45	\$464,000	\$0.25	\$41,250	\$0.35	\$57,750	\$8.00	\$104,000	\$8.00	\$32,000
2 Puget Sound Bridge and Dredging Co., Seattle, Wash.....	1.36	435,200	.28 ⁸ ₁₀	47,520	.40 ⁸ ₁₀	67,320	7.00	91,000	8.40	33,600
3 Johnston P. Porter, Vancouver, Wash.....	1.44	460,800	.35	57,750	.35	57,750	9.00	117,000	8.00	32,000
4 Celilo Construction Co., Portland, Oreg.....	1.50	480,000	.50	82,500	.50	82,500	7.50	97,500	12.00	48,000
5 Robert Wakefield & Co., Portland, Oreg., Caughren, Winters, Smith & Co., Spokane, Wash.....	1.45	464,000	.30	49,500	.30	49,500	6.75	87,750	7.00	28,000
6 Twohy Brothers, Spokane, Wash.....	.90	288,000	.20	33,000	.28	46,200	7.50	97,500	6.00	24,000
7	1.15	368,000	.30	49,500	.30	49,500	8.25	107,250	8.00	32,000

Abstract of proposals for excavation, concrete, masonry work, etc., for constructing a portion of the Dalles-Celilo Canal, etc.—Continued.

Bidder.	Bolt and anchor holes (1,000 linear feet).		Cast iron (2,000 pounds).		Wrought iron (1,000 pounds).		Reinforcing steel (2,000 pounds).	
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.
1 North American Dredging Co., Portland, Oreg.	\$1.00	\$1,000	\$0.10	\$200	\$0.10	\$100	\$0.06	\$120
2 Puget Sound Bridge and Dredging Co., Seattle, Wash.	.66	660	.09 ₁₀	192	.10 ₁₀	108	.04 ₂	90
3 Johnston P. Porter, Vancouver, Wash.	1.00	1,000	.10	200	.10	100	.10	200
4 Celilo Construction Co., Portland, Oreg.	1.00	1,000	.09	180	.15	150	.05	100
5 Robert Wakefield & Co., Portland, Oreg.	.90	900	.07	140	.08	80	.05	100
^a 6 Caughren, Winters, Smith & Co., Spokane, Wash.	1.00	1,000	.05	100	.06	60	.06	120
7 Twohy Brothers Spokane, Wash.	.60	600	.08	160	.05	50	.05	100

Bidder.	Draintile (1,000 linear feet).		Clearing (5 acres).		Overhaul (400,000 cubic yards).		Total.
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	
1 North American Dredging Co., Portland, Oreg.	\$1.00	\$1,000	\$200	\$1,000	\$0.05	\$20,000	\$722,420
2 Puget Sound Bridge and Dredging Co., Seattle, Wash.	.10 ₁₀	108	110	550	.10	40,000	716,348
3 Johnston P. Porter, Vancouver, Wash.	1.00	1,000	60	300	.07	28,000	756,100
4 Celilo Construction Co., Portland, Oreg.	.15	150	50	250	.02 ₂	10,000	802,330
5 Robert Wakefield & Co., Portland, Oreg.	.15	150	50	250	.03	12,000	692,370
^a 6 Caughren, Winters, Smith & Co., Spokane, Wash.	.50	500	25	125	.10	40,000	530,605
7 Twohy Brothers, Spokane, Wash.	.10	100	25	125	.09	36,000	643,385

^a Recommended for acceptance

PORTLAND (OREG.) SECOND DISTRICT.

[Officer: Maj. J. F. McIndoe, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals opened at United States engineer office, Portland, Oreg., June 15, 1909, in response to circular advertisement dated May 15, 1909, for furnishing and delivering coal to the United States at Fort Stevens, Oreg., and Astoria, Oreg., during the year ending June 30, 1910, for use in connection with various works of river and harbor improvement.

Name and address of bidder.	Prices bid per ton of 2,240 pounds delivered			Name of coal.
	Ex. ship on Fort Stevens wharf.	On cars at Fort Stevens.	On United States craft at Astoria.	
Geo. W. Sanborn, Astoria, Oreg.				<i>a</i> Carbonado steam, or Roslyn special steam. <i>b</i> South Prairie mine run or Roslyn special steam. <i>c</i> Gem steam. <i>d</i> Richmond, Hebburn, or Aberdare screen lump.
Maple Hill Coal Co., Seattle, Wash.	<i>b</i> \$5.80 <i>c</i> 5.35 <i>d</i> \$6.40	<i>b</i> \$5.80 7.20	<i>c</i> 5.25 7.50	<i>a</i> \$5.90 <i>e</i> 6.65 <i>c</i> 5.75 8.00

a Accepted. Option of the United States for delivery when Richmond, Hebburn, or Aberdare coals can not be readily obtained, there being at times a shortage of those coals in this market.

b Accepted. Option of United States for delivery of either or both South Prairie mine run or Roslyn special steam coals, they being considered best at prices bid.

c Rejected. Coal bid upon not in accordance with specifications and not of satisfactory quality.

d Rejected. No facilities for receiving the coal on Fort Stevens wharf in quantities offered.

e Accepted. Option of the United States for delivery of Richmond, Hebburn, or Aberdare screened lump coals, these coals, on account of superior quality, being considered more economical for dredges and tugs than the other coals offered at lower prices.

Abstract of proposals opened at United States engineer office, Portland, Oreg., August 14, 1908, received in response to circular advertisement dated July 25, 1908, for constructing one fish ladder in the Yamhill River at Yamhill Lock, Oreg., to be paid for from funds appropriated for "Improving Willamette and Yamhill rivers, Oregon."

No.	Name and address of bidder.	Total amount of bid.
1	Joseph Paquet, Portland, Oreg.	<i>a</i> \$1,325

a Accepted.

SEATTLE (WASH.) DISTRICT.

[Officer: Maj. C. W. Kutz, Corps of Engineers.]

FORTIFICATION.

Abstract of proposals for Portland cement, at Seattle, Wash., 10,000 barrels, opened March 25, 1909.

[Appropriation for gun and mortar batteries for battery construction.]

Name and address of bidder.	Amount per barrel.
Balfour, Guthrie & Co.:	
3,000 barrels Condor or K. B. & S., ^a Tacoma	\$2.15
10,000 barrels Condor ^a to arrive, Seattle	^b 1.95
S. W. R. Dally, Sunflower, in duck bags.	2.35
Galbraith, Bacon & Co.:	
Standard or Blue Cross	2.05
Plus charge for paper bags	.12
	2.17
F. T. Crowe & Co.:	
Golden Gate	2.00
Plus charge for paper bags	.12
	2.12
Superior Portland Cement Co.:	
Superior	2.05
Plus charge for paper bags	.12
	2.17
Caine-Grimshaw Co.:	
Golden Gate	2.00
Plus charge for paper bags	.12
	2.12
W. P. Fuller & Co., Josson, ^a Tacoma delivery	2.05

^a Condor K. B. & S., and Josson, foreign. All others, domestic.^b In bond.^c About 2½ cents per barrel storage per month after Apr. 1, 1909.

RIVERS AND HARBORS.

Abstract of proposals received by Maj. C. W. Kutz, Corps of Engineers, for furnishing steel doors at Seattle, Wash., in response to circular proposal dated March 18, 1909; opened March 25, 1909.

Name and address of bidder.	Steel doors.	Amount.
Westerman Iron Works, Seattle, Wash.	67	\$3,322.90
The Vulcan Iron Works, Seattle, Wash.	67	3,350.00
The Moran Co., Seattle, Wash.	67	4,168.00

Abstract of circular proposals received by Maj. C. W. Kutz, Corps of Engineers, in response to advertisement dated October 24, 1908, for furnishing sand and gravel at Puget Sound, Washington; opened November 16, 1908.

No.	Name and address of bidder.	Sand, 8,000 cubic yards.	Large gravel, 14,000 cubic yards.	Small gravel, 2,000 cubic yards.	Total.
1	N. S. Snyder, Port Townsend, Wash.	\$0.80	\$0.80	\$0.80	\$19,200
2	Richmond Beach Sand and Gravel Co., Seattle, Wash.	.34	.50	.50	^a 2,720
3	Martin Gravel Co., Seattle, Wash.	.50			12,000

^a Bid on sand only.

Abstract of circular proposals received by Maj. C. W. Kutz, Corps of Engineers, for furnishing piling at Grays Harbor, Washington, in response to circular proposals dated January 4, 1909; opened January 15, 1909.

No.	Name and address of bidder.	65-foot.	70-foot.	75-foot.	Total.	Remarks.
		<i>Cents.</i>	<i>Cents.</i>	<i>Cents.</i>		
1	R. J. Stoner, Gate, Wash.	{ 17 12 $\frac{1}{2}$	{ 18 $\frac{1}{2}$ 14 $\frac{1}{2}$	{ 20 $\frac{1}{2}$ 16 $\frac{1}{2}$	\$6,026.25 4,578.75	Delivered on jetty. Delivered f. o. b. cars at Pe Ell, Wash.
2	Daniel Kern, Portland, Oreg.	17 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	5,906.25	Delivered at jetty.
3	Doty Lumber and Shingle Co., Doty, Wash.	9	9	9	3,037.50	Delivered f. o. b. cars at Doty, Wash.
4	P. C. Leonard Lumber Co., Seattle, Wash.	13	15	16	4,710.00	Delivered f. o. b. cars at Centralia, Wash.
5	J. H. Hyde, Tacoma, Wash.	12	12	12	4,050.00	Delivered f. o. b. cars at Tacoma, Wash.

Abstract of proposal received by Maj. C. W. Kutz, Corps of Engineers, for furnishing piling and brush fascines at Grays Harbor, Washington, in response to circular dated November 27, 1908; opened December 22, 1908.

Items.		R. J. Stoner, Gate, Wash.
	Bid.	Amount.
Piling 65 feet long		\$0.16
Piling 70 feet long		.18
Piling 75 feet long		.20
Brush, per cord		3.50
Total.....		12,060

Abstract of proposals received by Maj. C. W. Kutz, Corps of Engineers, for furnishing Portland cement at Seattle, Wash., in response to circular dated December 29, 1908; opened January 8, 1909.

No.	Name and address of bidder.	Brand.	Per barrel.
1	Galbraith, Bacon & Co., Seattle, Wash.	Standard	\$2.00
2	S. W. R. Dally, Seattle, Wash.	Sunflower	2.27
3	F. T. Crowe & Co., Seattle, Wash.	Golden Gate	2.03
4	A. F. Coats Co., Seattle, Wash.	Washington	2.05
5	Caine, Grimshaw Co., Seattle, Wash.	Golden Gate	2.03
6	Superior Portland Cement Co., Seattle, Wash.	Superior	2.02
7	Balfour, Guthrie & Co., Seattle, Wash.	Elephant	1.75

Abstract of proposals received July 20, 1908, by Maj. H. M. Chittenden, Corps of Engineers, in response to poster and circular letter, for furnishing coal at Seattle, Wash.

No.	Name and address of bidder.	Bid per ton.	Remarks.
1	C. E. Houston, Seattle, Wash.	\$3.75	Black Diamond or Franklin, delivered at Seattle.
2	Roslyn Fuel Co., Seattle, Wash.	{ 4.50 4.00 3.40	Roslyn, mine run; Roslyn, steam;
3	Haswell & Co., Seattle, Wash.	{ 3.60 3.80	Nolte, mine run, delivered at Seattle. Gale Creek, delivered at Tacoma. Gale Creek, delivered at Seattle.

• HONOLULU (HAWAII) DISTRICT.

[Officer: Maj. E. Eveleth Winslow, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for transporting 22,000 tons of stone, crushed rock, screenings, sand or earth, from United States quarry at Moiliili to United States military reservation, Waikiki, Honolulu, Hawaii, received in response to circular of Maj. E. Eveleth Winslow, Corps of Engineers, dated February 5, 1909.

[Appropriation: Fortifications in insular possessions, seacoast batteries in Hawaiian Islands.]

No.	Name and address of bidder.	Price per ton of 2,000 pounds.	
		Loaded and unloaded by United States.	Loaded and unloaded by contractor.
		Cents.	Cents.
1	Honolulu Rapid Transit and Land Co., Honolulu, Hawaii.....	25	.....
2	Hustace-Peck Co. (Limited), Honolulu, Hawaii.....	35	42
3	Honolulu Construction and Draying Co. (Limited), Honolulu, Hawaii.....	65	.....

Bid of Honolulu Rapid Transit and Land Company accepted.

Abstract of proposals for deformed steel bars for fortifications at Honolulu and Pearl harbors, Hawaii, received in response to advertisement dated February 9, 1909, and opened at 12 o'clock noon March 15, 1909, by Lieut. Col. S. W. Roessler, Corps of Engineers, Army Building, New York, N. Y., Lieut. Col. John Biddle, Corps of Engineers, San Francisco, Cal., and Maj. E. Eveleth Winslow, Corps of Engineers, Honolulu, Hawaii.

No.	Name and address of bidder.	Type.	Make.	Price per ton, various sizes.	
				$\frac{1}{2}$ -inch.	$\frac{3}{4}$ -inch.
<i>Bids opened by Major Winslow.</i>					
1	Catton, Neill & Co. (Limited), Honolulu, Hawaii.	Twisted.....			
2	Theo. H. Davies & Co. (Limited), Honolulu, Hawaii.	.....do.....	Ransome.....	\$44. 94	\$43. 89
3	H. Hackfeld & Co. (Limited), Honolulu, Hawaii.	.....	United States Steel Products Export Co.	45. 68	44. 74
4	H. E. Hendrick, Honolulu, Hawaii.	Twisted.....			
5	Honolulu Iron Works Co., Honolulu, Hawaii.	Kahn cup bar.....	Trussed Concrete Steel Co.	43. 63	42. 57
6	The Von Hamm-Young Co. (Limited), Honolulu, Hawaii.	Corrugated, twisted.....		42. 78	41. 78
	The Von Hamm-Young Co. (Limited), (alternative proposal).	Corrugated.....		42. 47	41. 47
<i>Bids opened by Lieut. Col. Biddle.</i>					
7	Judson Manufacturing Co., San Francisco, Cal.	Twisted.....			
8	Corrugated Bar Co., St. Louis, Mo.	{Corrugated.....	Johnson.....	41. 30	40. 30
		{Corrugated, twisted.....	.....do.....	41. 60	40. 60
<i>Bids opened by Lieut. Col. Roessler.</i>					
9	Dunham, Carrigan & Hayden Co., New York, N. Y.	Twisted.....	Ransome.....		
10	Concrete Steel Co., New York, N. Y.	Corrugated.....	Havemeyer.....		
11	Lackawanna Steel Co., New York, N. Y.	Twisted.....	Ransome.....		
12	G. & W. Manufacturing Co., New York, N. Y.	.....do.....	Jones & Laughlin Steel Co.	45. 55	44. 55
13	Corrugated Bar Co., St. Louis, Mo.	{Corrugated.....	Johnson.....	41. 30	40. 30
		{Corrugated, twisted.....	.....do.....	41. 60	40. 60

Abstract of proposals for deformed steel bars for fortifications at Honolulu and Pearl harbors, Hawaii, received in response to advertisement dated February 9, 1909, etc.—Cont'd.

No.	Name and address of bidder.	Price per ton, various sizes—Continued.			Remarks.
		$\frac{3}{4}$ -inch and larger.	1 $\frac{1}{2}$ -inch and larger.	All sizes.	
<i>Bids opened by Major Winslow.</i>					
1	Catton, Neill & Co. (Limited), Honolulu, Hawaii.			\$40.33	
2	Theo. H. Davies & Co. (Limited), Honolulu, Hawaii.	\$42.32			
3	H. Hackfeld & Co. (Limited), Honolulu, Hawaii.	42.74			
4	H. E. Hendrick, Honolulu, Hawaii.			44.98	
5	Honolulu Iron Works Co., Honolulu, Hawaii.	41.50			
6	The Von Hamm-Young Co. (Limited), Honolulu, Hawaii.	40.78	\$40.78		Sizes larger than 1 $\frac{1}{4}$ inches will be furnished in twisted steel bars.
	The Von Hamm-Young Co. (Limited), (alternative proposal).	40.47			Total tonnage in sizes not larger than 1 $\frac{1}{4}$ inches.
<i>Bids opened by Lieut. Col. Biddle.</i>					
7	Judson Manufacturing Co., San Francisco, Cal.			43.50	
8	Corrugated Bar Co., St. Louis, Mo.	{ 39.30			Total tonnage in sizes not larger than 1 $\frac{1}{4}$ inches.
		{ 39.60	39.60		Bid received late.
<i>Bids opened by Lieut. Col. Roessler.</i>					
9	Dunham, Carrigan & Hayden Co., New York, N. Y.			39.89	
10	Concrete Steel Co., New York, N. Y.			40.95	Terms, cash upon delivery of shipping documents, New York City.
11	Lackawanna Steel Co., New York, N. Y.			38.75	
12	G. & W. Manufacturing Co., New York, N. Y.	43.05			Does not bid on sizes larger than 1 $\frac{1}{4}$ inches. Payment required before shipment.
13	Corrugated Bar Co., St. Louis, Mo.	{ 39.30			Total tonnage in sizes not larger than 1 $\frac{1}{4}$ inches.
		{ 39.60	39.60		Original proposals did not contemplate Johnson bars beyond 1 $\frac{1}{4}$ inches. Arrangements were subsequently made to furnish bars in larger sizes also.

a Accepted.

Abstract of proposals for 25,000 barrels of Portland cement for fortification works at Honolulu, Hawaii, received in response to advertisement dated March 15, 1909, and opened by Maj. E. Eveleth Winslow, Corps of Engineers, at 12 o'clock, noon, May 14, 1909, at Honolulu, Hawaii.

No.	Name and address of bidder.	Brand.	Place of manufacture.
1	Standard Portland Cement Corporation and Salina Cruz Portland Cement Co., San Francisco, Cal.	Standard.....	Napa Junction, or Davenport, Cal.
2	Balfour Guthrie & Co., San Francisco, Cal.....	K. B. S., or at bidder's option, North Condor.	London, Antwerp.
3	Theo. H. Davies & Co., Honolulu, Hawaii.....	Golden Gate.....	Cement, Cal.
4	Alsen's American Portland Cement Works, New York, N. Y.	Alsen's.....	Germany.

No.	Name and address of bidder.	Price per barrel, f. o. b.			Remarks.
		Wharf or warehouse, Honolulu.	Hono- lulu R. T. and Land Co. cars.	Oahu Ry. and Land Co. cars.	
1	Standard Portland Cement Corporation and Salina Cruz Portland Cement Co., San Francisco, Cal.	\$2.25	\$2.35	.....	In sacks—extra charge of 10 cents for each sack. A credit of 10 cents will afterwards be made for all sacks returned in good condition. Evidence of authority of officer signing for company not furnished.
2	Balfour Guthrie & Co., San Francisco, Cal.	2.92	2.94	.....	Subject to being free of import duty. First delivery 90 days after award. Evidence of authority of officer signing for company not furnished.
3	Theo. H. Davies & Co., Honolulu, Hawaii.	2.65	2.75	\$2.65	In sacks—allowance of 10 cents each for sacks returned in good condition. Evidence of authority of officer signing for company not furnished.
4	Alsen's American Portland Cement Works, New York, N. Y.	2.30	.....	.....	Exclusive of import duty. Entire amount to be shipped in one lot. Evidence of authority of officer signing for company not furnished.

Proposals rejected as irregular, not being in accordance with the specifications.

MANILA (PHILIPPINE ISLANDS) DISTRICT.

[Officer: Maj. G. P. Howell, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for launch hire for a period of two to three months, dated June 27, 1908, and opened July 1, 1908, by Maj. G. P. Howell, Corps of Engineers.

No.	Name of bidder.	Price per month.
1	Simmie & Pierce.....	\$700
2	F. T. Figueras.....	600
3	A. De la Rama.....	660
4	Rafael Reyes.....	650
5	Smith Bell & Co.....	450
6	C. S. Robinson & Co.....	500
a 7	Zach Oppenheimer.....	600

^a Accepted.

Abstract of proposals for construction of 5 mixed material buildings on Carabao Island, dated August 26, 1908, and opened September 4, 1909, by Maj. G. P. Howell, Corps of Engineers.

No.	Name of bidder.	For 5 buildings.
1	Ah Soon.....	\$4,480
2	Aan Samco.....	12,000
a 3	The Manila Sawmill.....	7,340
4	Dee C. Chuan.....	14,498

a Accepted.

Abstract of proposals for hire of 3 flat-top barges between 50 and 150 tons capacity for one year, dated December 7, 1908, and opened December 12, 1908, by Maj. G. P. Howell, Corps of Engineers, for use in transporting materials and supplies to Corregidor and Carabao islands and Subic Bay.

No.	Name of bidder.	50 to 80 tons.	120 tons.	150 tons.
a 1	C. B. Williams.....	per day...	\$11	\$15
2	Manila Navigation Co.....	do		22.50
3	Macondray & Co.....	do		22.50

a Accepted.

Abstract of proposals for launch hire for one to three months, dated December 15, 1908, and opened December 18, 1908, by Maj. G. P. Howell, Corps of Engineers, for use at Corregidor and Carabao islands.

No.	Name of bidder.	Per month.
1	Simmie & Pierce.....	\$650
2	F. T. Figueras.....	725
3	C. F. Garry.....	500
a 4	Zach Oppenheimer.....	600
a 5	Smith Bell & Co.....	400

a Accepted.

Abstract of proposals for 40,000 barrels Portland cement, dated October 24, 1908, and opened December 5, 1908, by Maj. G. P. Howell, Corps of Engineers, for Corregidor and Carabao islands.

No.	Name of bidder.	Deliveries.		
		Manila Harbor.	At wharf Corregidor Island.	At entrance of Manila Bay.
a 1	Wm. H. Anderson & Co.....	\$2.12	\$2.30	\$2.20
2	Macondray & Co.....	2.16	2.32	2.41
3	Behn Meyer & Co.....	2.16	2.34	2.16
4	Smith Bell & Co.....	1.80	2.00	2.00
5	Findlay & Co.....	2.225	2.395	
6	H. W. Peabody & Co.....	2.35	2.49	2.35

a Accepted.

CALIFORNIA DÉBRIS COMMISSION.

[Commissioners: Lieut. Col. John Biddle and Maj. C. H. McKinstry to June 7, 1909; Capt. Thomas. H. Jackson and Lieut. Charles T. Leeds, Corps of Engineers, from June 7, 1909.]

Abstract of proposals for constructing outlet for settling basin on Yuba River near Ham-monton, Yuba County, Cal., received by the California Débris Commission in response to advertisement dated October 26, 1908, and opened at San Francisco, Cal., on Novem-ber 24, 1908, by Capt. Thomas H. Jackson, Corps of Engineers, secretary.

No.	Name and address of bidder..	Excavating 8,250 cubic yards earth, per cubic yard.	Driving 1,960 linear feet piles, per linear foot.	Furnishing and plac-ing 825 cubic yards of concrete (1:2:4), per cubic yard.	Furnishing and plac-ing 2,890 cubic yards of concrete (1:2:5), per cubic yard.
1	Lewis Moreing, Stockton, Cal.....	\$ 0.80 6,600.00	\$ 0.50 980.00	\$ 9.75 8,043.75	\$ 8.50 24,565.00
2	Western Bridge and Construction Co., Sacramento, Cal.	1.00 8,250.00	.60 1,176.00	9.00 7,425.00	7.75 22,397.50
3	Hyde, Harjes & Co., San Francisco, Cal.....	1.10 9,075.00	.36 705.60	10.75 8,868.75	8.00 23,120.00
4	Edward Malley, San Francisco, Cal.....	.50 4,125.00	.50 980.00	8.00 6,600.00	8.00 23,120.00
5	Guy McMurtry, Yuba City, Cal.; Halsey H. Dunning, Marysville, Cal.	.50 4,125.00	.50 980.00	11.50 9,487.50	10.86 31,385.40
6	Cotton Bros. & Co., Oakland, Cal.....	1.00 8,250.00	1.20 2,352.00	8.20 6,765.00	8.20 23,698.00
7	American Construction Co., San Francisco, Cal.....	1.00 8,250.00	1.00 1,960.00	10.00 8,250.00	7.50 21,675.00
8	J. A. Baumann & Co., San Francisco, Cal.....	.40 3,300.00	.20 392.00	8.26 6,814.50	7.35 21,241.50
9	Chris Emille, San Francisco, Cal.....	.50 4,125.00	.30 588.00	7.00 5,775.00	6.25 18,062.50

No.	Name and address of bidder.	Furnishing and placing 80,735 pounds of steel reinforcing bars.		Furnishing and laying 3,057 square yards of cobblestone pave- ment.		Total.
		Per pound.	Amount.	Per square yard.	Amount.	
1	Lewis Moreing, Stockton, Cal.....	\$0.0325	\$2,623.89	\$0.40	\$1,222.80	\$44,035.44
2	Western Bridge and Construction Co., Sacramento, Cal.....	.055	4,440.42	.25	764.25	44,453.17
3	Hyde, Harjes & Co., San Francisco, Cal.....	.045	3,633.07	.40	1,222.80	46,625.22
4	Edward Malley, San Francisco, Cal.....	.05	4,036.75	.90	2,751.30	41,613.05
5	Guy McMurtry, Yuba City, Cal., and Halsey H. Dunning, Marysville, Cal.....	.06	4,844.10	.50	1,528.50	52,350.50
6	Cotton Bros. & Co., Oakland, Cal.....	.045	3,633.07	1.20	3,668.40	48,366.47
7	American Construction Co., San Francisco, Cal.....	.04	3,229.40	1.00	3,057.00	46,421.40
8	J. A. Baumann & Co., San Francisco, Cal.....	.041	3,310.13	.56	1,711.92	36,770.05
9	Chris Emille, San Francisco, Cal.....	.0375	3,027.56	.50	1,528.50	33,106.56

Proposal of J. A. Baumann & Co., the lowest responsible bidder, accepted.

PUBLIC BUILDINGS AND GROUNDS, DISTRICT OF COLUMBIA.

[Officer: Col. Spencer Cosby, U. S. Army.]

Abstract of proposals received at office public buildings and grounds, Washington, D. C., under which formal contracts for the fiscal year ending June 30, 1909, were made.

FOR FUEL, RECEIVED MAY 9, 1908.

Item.	Johnson Bros., city.	John P. Agnew & Co., city.	T. Edw. Chapman, city.	Grove Lime and Coal Co., city.
White ash furnace coal, per ton.....	\$5.75	\$6.35	\$5.95	.....
White ash egg or grate coal, per ton.....	5.95	6.60	6.50	.....
Red ash egg or grate coal, per ton.....	6.30	7.24	6.60	.....
Red ash stove coal, per ton.....	6.55	7.24	7.40	.....
White ash stove coal, per ton.....	6.50	6.98	6.95	.....
White ash chestnut coal, per ton.....	6.50	6.98	6.95	.....
Georges Creek coal, per ton.....	4.00	3.90	4.00	.....
Pine kindling wood, per cord.....	9.00	11.00	10.50	\$7.75
Oak wood, per cord.....	9.00	12.00	10.50	8.25
Long pine wood, per cord.....	8.00	9.00	9.00	7.00
Charcoal, per barrel.....	.75	1.75	.40	.....

FOR BULBS, RECEIVED MAY 9, 1908.

Name and address of bidder.	Amount.
Peter Henderson & Co., New York City.....	\$1,944.00
John Scheepers & Co., New York City.....	1,114.45
Henry F. Michell, Philadelphia, Pa.....	1,150.00

FOR ELECTRIC ARC LIGHTS IN THE PUBLIC GROUNDS, RECEIVED JUNE 15, 1908.

Name and address of bidder.	Price per light per annum.
Potomac Electric Power Co., Washington, D. C.....	\$85.00

FOR INSTALLING, OPERATING, AND MAINTAINING HIGH-CANDLEPOWER GAS-LIGHTS IN THE PUBLIC GROUNDS, RECEIVED JUNE 20, 1908.

Name and address of bidder.	Price per light per annum.
Union Lighting Co., Philadelphia, Pa.:	
For 220 single burners.....	\$28.00
For 6 double burners.....	48.00
American Street Lighting Co., Baltimore, Md.....	20.85

Proposals for making monthly inspections of elevator and machinery in the Washington Monument, received July 21, 1908.

Name and address of bidder.	Price per annum for 12 monthly inspections.
United States Casualty Co., New York City.....	\$50
Philadelphia Casualty Co., Philadelphia.....	50
Maryland Casualty Co., Washington, D. C.....	40

Proposals for broken stone for constructing a park roadway on B street along the northern boundary of Potomac Park, between Virginia avenue and Twenty-first street NW, received August 10, 1908.

Item.	B. F. Pope Stone Co., Baltimore, Md.	Columbia Granite and Dredg- ing Co., Washing- ton, D. C.	National Mortar Co., Washing- ton, D. C.
1,400 tons of gneiss limestone or trap rock from $2\frac{1}{2}$ to $1\frac{1}{4}$ inches, per ton.....		\$1.37	$\left\{ \begin{array}{l} a \$1.95 \\ b 1.51 \end{array} \right.$
1,000 tons of trap rock from $1\frac{1}{2}$ to $\frac{1}{2}$ inch, per ton.....	\$1.97	2.19	1.95
300 tons of trap rock from $\frac{1}{2}$ inch to dust, per ton.....	1.97	2.19	1.95
300 tons limestone from $\frac{3}{4}$ inch to dust, per ton.....	1.55	1.85	1.57
450 tons of gneiss limestone or trap rock from $1\frac{1}{2}$ to $\frac{1}{4}$ inch, per ton.....	1.70	$\left\{ \begin{array}{l} c 1.37 \\ a 1.95 \\ b 1.51 \end{array} \right.$	

a Trap rock.

b Limestone.

c Gneiss.

Proposals for paving brick for gutters on B street, northern boundary of Potomac Park, received August 10, 1908.

Name and address of bidder.	50,000 vitrified paving brick.
James M. Porter, Pittsburg, Pa.:	
Jas. M. Porter brand, per M, delivered.....	\$22.25
Porter National brand, per M, delivered.....	25.40
Mack Manufacturing Co., Philadelphia, Pa., per M, delivered.....	27.66
C. P. Myer Brick Co., Pittsburg, Pa.:	
F. o. b. Washington, per M, delivered.....	23.00
Delivered on work, per M.....	26.00

Proposals for furnishing and delivering broken trap rock for macadam roadways in the public grounds, received September 30, 1908.

Name and address of bidder.	650 tons trap rock, 1-inch size, per ton.	1,000 tons trap rock, $\frac{1}{2}$ -inch size, per ton.
Columbia Granite and Dredging Co., Washington, D. C.....	\$2.39	\$2.39
National Mortar Co., Washington, D. C.....	1.93	1.93
B. F. Pope Stone Co., Washington, D. C.....	1.89	1.89

Proposals for cement walks and coping in the public grounds, received April 30, 1909.

Name and address of bidder.	2,250 linear feet cop- ing, per foot.	10 posts, each.	2,000 square yards con- crete walks, per square yard.
Southern Paving Co., Washington, D. C.....	\$0.29	\$0.95	\$1.40
R. J. Beall Construction Co., Washington, D. C.....	.37	.50	1.045
Cranford Paving Co., Washington, D. C.....	.365	1.75	1.08
R. E. Boiseau, Washington, D. C.....	.40	.90	1.35

Proposals for repairing asphalt pavements in public grounds, received May 20, 1909.

Name and address of bidder.	100 cubic yards asphalt topping in place, per cubic yard.	10 cubic yards asphalt binder in place, per cubic yard.
The Cranford Paving Co., Washington, D. C.	\$16.00	\$6.00

Proposals for oiling macadam roads in public grounds, received June 9, 1909.

Name and address of bidder.	Furnishing and spreading oil on 50,000 square yards surface, per square yard.	Cents.
Good Roads Improvement Co., Cincinnati, Ohio.		4½
Indian Refining Co., New York City.		4½
Martin McNamara, Washington, D. C.		6¾
		6½
		7½

Proposals for re-covering the walls and furniture, and making and hanging window draperies in the Green Room, White House, received June 24, 1909.

Name and address of bidder.	Amount.
L. Marcotte & Co., New York.	\$2,215.00
W. & J. Sloane, New York.	1,350.00
W. B. Moses & Sons, Washington, D. C.	1,373.48
Wurdeman & Co., Washington, D. C.	1,167.48
John C. Knipp & Sons, Washington, D. C.	1,397.75
Woodward & Lothrop, Washington, D. C.	1,097.75
R. W. & J. B. Henderson (Incorporated), Washington, D. C.	1,246.00
	1,469.00
	1,284.00
	1,499.73

ABSTRACT OF PROPOSALS RECEIVED DURING THE FISCAL YEAR ENDING JUNE 30, 1909, FOR WORKS UNDER THE MISSISSIPPI RIVER COMMISSION.

SECRETARY'S OFFICE, ST. LOUIS, MO.

[Officers: Capt. G. R. Lukesh and Lieut. C. H. Knight, Corps of Engineers.]

Abstract of proposals for constructing a side-haul railway dry dock for the Mississippi River Commission, received in response to advertisement dated October 24, 1908, and opened by Capt. G. R. Lukesh, Corps of Engineers, November 28, 1908.

[Appropriation for improving Mississippi River.]

No.	Name and address of bidder.	Whit timber foundations and track ways.	With timber foundations and track ways partly concrete.	Time for completion.	Total cost.	Remarks.
1	H. I. Crandall & Son Co., East Boston, Mass.	\$86,540	<i>a</i> \$87,090	<i>Days.</i> 180 180	\$86,540 87,090	{ For design No. 2, with rollers under cradles in place of wheels and axles, deduct \$3,690. For friction clutches instead of solid jaw clutches add \$300. For spur-geard winches instead of worm gear deduct \$1,050. For concrete made from run of dredge, \$7.20 per yard. For concrete made from sand and stone, \$8.95 per yard. For 12 pounds of creosote oil per cubic foot of timber instead of 20 pounds as specified, deduct \$850. For concrete made of best crushed stone and clean sharp sand, add \$1,450. For changing design for two-speed gearing, add \$1,500. For placing operating levers in engine room, add \$400. For brake band on engine, add \$425. For field painting, add \$1,300. For stud-link chain instead of open link, no extra charge.
2	New Jersey Foundry and Machine Co., New York, N. Y.	136,487	-----	200	136,487	

a Accepted.

Abstract of proposals for furnishing coal for operations under Mississippi River Commission, received in response to advertisement dated March 16, 1909, and opened by Lieut. C. H. Knight, Corps of Engineers, April 15, 1909.

[Appropriation for improving Mississippi River.]

No.	Name and address of bidder.	Name and location of mine.	Quantity.	For delivery under first alternative in specifications.		For delivery under second alternative in specifications.	
				Price per bushel.	Total cost.	Price per bushel.	Total cost.
1	Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.	Becks Run, Lovedale, Mon-gah, Sunnyside, Coal Bluff or Black Diamond mines (second pool), Monongahela River, Pa., 14-inch lump, Tremont, Apollo, Vigilant, or Crescent mines (fourth pool), Monongahela River, Pa., 14-inch lump, DeKoven mine, DeKoven, Ky., 14-inch lump.	Bushels. 475,000	Cents. 11	\$52,250	Cents. -----	-----
		Tradewater No. 1 or No. 2 mine, Sturgis, Ky.	475,000	<i>a</i> 10 $\frac{1}{2}$	49,875	-----	-----
2	West Kentucky Coal Co., New York, N.Y.	Tradewater No. 5 mine, near Wheatcroft, Ky.	475,000	9	42,750	-----	-----
			475,000	-----	-----	11	\$52,250
			475,000	-----	-----	11	52,250

a Accepted.

FIRST AND SECOND DISTRICTS, MEMPHIS, TENN.

[Officer: Maj. M. L. Walker, Corps of Engineers.]

Abstract of proposals for levee work in White River levee district (Old Town Loop) received in response to public notice dated October 16, 1908, and opened October 26, 1908, by Capt. Wm. D. Connor, Corps of Engineers.

No.	Name and residence of bidder.	Station $\frac{29}{33}$ to Station $\frac{29}{33}$ (5,500 cubic yards) per cubic yard.	Total cost.
a 1	Roach & Stansell, Memphis, Tenn.	Cents. 21	\$1,155

a Accepted.

Abstract of proposals for levee work in Lower St. Francis levee district, received in response to advertisement dated May 21, 1909, and opened June 21, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Station $\frac{155}{36}$ to Station $\frac{157}{34}$.		
		148,000 cubic yards, per cubic yard.	Grubbing (6 acres) per acre.	Cost.
a 1	Roach & Stansell, Memphis, Tenn.	Cents. 20.7		\$150
2	Leonard & Rogers, Memphis, Tenn.	24.10		125
3	W. L. Mosby, Walls, Miss.	29.9		500

No.	Name and residence of bidder.	Station $\frac{157}{34}$ to Station $\frac{158}{23}$.			Total cost.	Remarks.
		146,000 cubic yards, per cubic yard.	Grubbing (6 acres) per acre.	Cost.		
a 1	Roach & Stansell, Memphis, Tenn.	Cents. 20.7		\$150	\$31,122	\$62,658
2	Leonard & Rogers, Memphis, Tenn.	24.6		125	36,666	73,084
3	W. L. Mosby, Walls, Miss.	29.9		500	46,654	93,906

a Recommended for acceptance.

Abstract of proposals for furnishing wire, wire strand, and clips, received in response to public notice dated October 22, 1908, and opened October 31, 1908, by Capt. G. R. Lukesh, Corps of Engineers.

No.	Name and residence of bidder.	Galvanized wire, No. 12 (16,000 pounds).	Wire strand.		
			$\frac{1}{2}$ -inch (21,000 pounds).	$\frac{5}{8}$ -inch (12,000 pounds).	$\frac{3}{4}$ -inch (53,000 pounds).
a 1	A. Leschen & Sons Rope Co., St. Louis, Mo.	Per cwt. \$2.49	Per cwt. \$3.03	Per cwt. \$3.01	Per cwt. \$3.25
2	Riechman-Crosby Co., Memphis, Tenn.	2.53	3.10	3.08	3.30
3	Pidgeon-Thomas Iron Co., Memphis, Tenn.	2.49 $\frac{1}{2}$	3.74	2.93	3.09
4	Broderick & Bascom Rope Co., St. Louis, Mo.	2.50	3.10	3.10	3.30
5	Macomber & Whyte Rope Co., Chicago, Ill.	2.68	3.57	3.33	3.49
6	American Hoist and Derrick Co., St. Paul, Minn.				
7	Lee Brothers, Memphis, Tenn.	2.50	3.25	3.75	4.00

a Accepted.

Abstract of proposals for furnishing wire, wire strand, and clips, received in response to public notice dated October 22, 1908, and opened October 31, 1908, etc.—Continued.

No.	Name and residence of bidder.	Clips, ½-inch (2,000), each.	Total cost.	Remarks.
1	A. Leschen & Sons Rope Co., St. Louis, Mo.	Cents. 44	\$3,208.40	
2	Riechman-Crosby Co., Memphis, Tenn.		3,174.40	
3	Pidgeon-Thomas Iron Co., Memphis, Tenn.	{ 44 52	3,263.90 3,283.90	Bull dog clip. Crosby clip.
4	Broderick & Bascom Rope Co., St. Louis, Mo.	{ 6	3,292.00	
5	Macomber & Whyte Rope Co., Chicago, Ill.	{ 5½ 9	3,537.80 3,607.80	Hugtight clip. Crosby clip.
6	American Hoist and Derrick Co., St. Paul, Minn.	8.3	166.00	Crosby clips.
7	Lee Brothers, Memphis, Tenn.	5½	3,762.70	Bull Dog clips.

a Accepted.

Abstract of proposals for furnishing wire, strand cables, clips, etc., received in response to public notice dated June 5, 1909, and opened June 21, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Galvan- ized wire No. 12 (22,500 pounds).	Wire strand.			Staples No. 9 (2,250 pounds).
			One-half inch (18,000 pounds).	Five-six- teenths inch (54,000 pounds).	One- fourth inch (67,500 pounds).	
1	Lee Bros., Memphis, Tenn.	Per cwt. a \$2.20	Per cwt. \$3.25	Per cwt. \$3.50	Per cwt. \$4.00	Per cwt. a \$1.95
2	Riechman-Crosby Co., Memphis, Tenn.		2.91	2.57	2.86	
3	Durable Wire Rope Co., Boston, Mass.					
4	Macomber & Whyte Rope Co., Chicago, Ill.	2.78	2.95	3.05	3.15	
5	American Hoist and Derrick Co., St. Paul, Minn.					
6	Leschen & Sons Rope Co., St. Louis, Mo.	2.25	2.89	a 2.54	2.84	2.45
7	Broderick & Bascom Rope Co., St. Louis, Mo.	2.29	a 2.84	2.55	a 2.75	2.52
8	Pidgeon-Thomas Iron Co., Memphis, Tenn.	2.24	3.65	2.59	2.79	2.34

No.	Name and residence of bidder.	Wire cables, No. 14 (1½ inches diameter, 45 feet long).	Clips.		Boat spikes.	
			Five-six- teenth inch (12,000).	One-half inch (2,500).	6 by ½ inches (800 pounds).	8 by 1½ inches (800 pounds).
1	Lee Bros., Memphis, Tenn.	Each. \$13.19 5/8	Per 100. a \$1.26	Per 100. a \$2.51	Per cwt. a \$2.80	Per cwt. a \$2.50
2	Riechman-Crosby Co., Memphis, Tenn.	13.19	{ 2.75 2.25	{ 4.00 3.25	{ 2.90	
3	Durable Wire Rope Co., Boston, Mass.		1.25	1.75		
4	Macomber & Whyte Rope Co., Chicago, Ill.	14.25	7.70	8.85		
5	American Hoist and Derrick Co., St. Paul, Minn.		7.85	9.00		
6	Leschen & Sons Rope Co., St. Louis, Mo.	13.19	{ 2.75 10.00	{ 4.00 12.00		
7	Broderick & Bascom Rope Co., St. Louis, Mo.	23.15	1.36	2.50	2.99	2.78
8	Pidgeon-Thomas Iron Co., Memphis, Tenn.	a 12.96	b. 027	b. 032	2.80	2.50

No.	Name and residence of bidder.	Wire nails.		Total cost.	Remarks.
		10d. (1,000 pounds).	20d. (1,000 pounds).		
1	Lee Bros., Memphis, Tenn.	Per cwt. \$2.05	Per cwt. \$2.00	\$6,195.44	Atlas clips. Memphis clips.
2	Riechman-Crosby Co., Memphis, Tenn.			14,479.96	
3	Durable Wire Rope Co., Boston, Mass.			14,378.01	Clips not up to standard; has on hand only 4,000 1½-inch clips.
4	Macomber & Whyte Rope Co., Chicago, Ill.			193.75	Crosby clips.
5	American Hoist and Derrick Co., St. Paul, Minn.			6,274.50	
6	Leschen & Sons Rope Co., St. Louis, Mo.	2.20	2.15	1,167.00	
7	Broderick & Bascom Rope Co., St. Louis, Mo.	2.26 3/4	2.20 1/2	5,028.34	Atlas clips.
8	Pidgeon-Thomas Iron Co., Memphis, Tenn.	a 2.00	a 1.95	6,098.34	Drop-forge clips.

a Accepted.

b Each.

194 MATERIALS AND LABOR FOR ENGINEER DEPARTMENT.

Abstract of proposals for furnishing riprap stone and spalls received in response to public notice dated February 4, 1909, and opened February 15, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Delivered on government barges at quarry.		Cost.
		Riprap (14,000 cubic yards).	Spalls (2,000 cubic yards).	
1	W. B. Arnold, Cape Girardeau, Mo.	\$0.69 ¹ ₂	\$0.69 ¹ ₂	\$11,120
2	John F. Oliver, Neelys Landing, Mo.	.72 ¹ ₂	.72	11,520
3	Oscar F. Barrett, Cincinnati, Ohio.	1.00	.85	15,700
4	C. C. Huthmacher, Grand Tower, Ill.	.85	.85	13,600
a 5	Nelson Sisson, Grand Tower, Ill.	.65	.65	10,400
6	B. J. Powell, Bowman, Mo.	.79	.79	12,640

No.	Name and residence of bidder.	Delivered on contractor's barges at Plum Point Reach.		Cost.	Total cost.	Remarks.
		Riprap (14,000 cubic yards).	Spalls (2,000 cubic yards).			
1	W. B. Arnold, Cape Girardeau, Mo.	Per cu.yd.	Per cu.yd.		\$11,120	Quarry 1 ¹ ₂ miles above Neelys Landing, Mo. Do.
2	John F. Oliver, Neely's Landing, Mo.				11,520	Quarry at Rosiclare, Ill.
3	Oscar F. Barrett, Cincinnati, Ohio.	\$1.75	\$1.75	\$28,000	43,700	Quarry at Grand Tower, Ill. Do.
4	C. C. Huthmacher, Grand Tower, Ill.				13,600	Quarry at Bainbridge, Mo.
a 5	Nelson Sisson, Grand Tower, Ill.				10,400	
6	B. J. Powell, Bowman, Mo.				12,640	

a Accepted.

Abstract of proposals for furnishing riprap stone and spalls received in response to public notice dated May 18, 1909, and opened May 24, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Delivered on government barges at quarry.		Cost.	Remarks.
		Riprap (5,500 cubic yards).	Spalls (1,500 cubic yards).		
1	John F. Oliver, Neely's Landing, Mo.	Per cu. yard.	Per cu. yard.	\$5,040	Quarry at Neelys Landing, Mo.
2	Jared L. Johnson, Cape Girardeau, Mo.	\$0.72	\$0.72	4,893	Quarry at Bainbridge, Mo.
3	Nelson Sisson, Grand Tower, Ill.	.69	.69	4,550	Quarry at Grand Tower, Ill.
4	W. B. Arnold, Cape Girardeau, Mo.	.71	.71	4,970	Quarry at Neelys Landing, Mo.

a Accepted.

MATERIALS AND LABOR FOR ENGINEER DEPARTMENT. 195

Abstract of proposals for furnishing three creosoted wooden barges, received in response to advertisement dated August 7, 1908, and opened September 7, 1908, by Capt. Wm. D. Connor, Corps of Engineers.

No.	Name and residence of bidder.	Three creosoted wooden barges delivered at—		Delivered at—	Total cost.
		Memphis, Tenn.	Other points.		
<i>a</i> 1	Gulfport Towing Co., Gulfport, Miss.	<i>Each.</i>	<i>Each.</i>	New Orleans.....	\$15,132.18
2	Thos. M. Favre, Gulfport Miss.	5,044.06	5,100.00	do.....	15,300.00
3	Gulfport Creosoting Co., Gulfport, Miss.	6,173.00	do.....	18,519.00	
<i>b</i> 4	Roy Jacoway, Dardenelle, Ark.	\$5,400.00	do.....	16,200.00	

a Recommended for acceptance.

b Informal bid and no bidder's bond.

Abstract of proposals for furnishing two scraper buckets, etc., received in response to public notice dated October 2, 1908, and opened October 10, 1908, by Capt. Wm. D. Connor, Corps of Engineers.

No.	Name and residence of bidder.	Scraper bucket with 1 set of extra bushings, pins, and shackles.		Remarks.
		<i>Each.</i>	\$750.00	
1	Page & Shnable, Chicago, Ill.			Accepted.

Abstract of proposals for furnishing steel wire cables, received in response to public notice dated October 13, 1908, and opened October 20, 1908, by Capt. Wm. D. Connor, Corps of Engineers.

No.	Name and residence of bidder.	1,000 feet long, complete.		400 feet long, complete.	An-nealed wire, No. 14 or 16.	Serving mallets.	Total cost.
		<i>Each.</i>	<i>Each.</i>	<i>Per cwt.</i>	<i>Each.</i>		
1	Broderick & Boscom Rope Co., St. Louis, Mo.	\$214.75	\$85.90	\$2.75	\$0.75	304.15	<i>a</i> \$281.78
2	Macomber & Whyte Rope Co., Chicago, Ill.	214.80	88.14	2.75	.50	306.19	
3	A. Leschen & Sons Rope Co., St. Louis, Mo.	214.70	88.10	3.00	1.00	306.80	
4	Lee Bros., Memphis, Tenn.	214.80	88.14	2.75	.50	306.19	
5	Riechman-Crosby Co., Memphis, Tenn.	214.79	88.13	2.90		305.82	
6	Pidgeon-Thomas Iron Co., Memphis, Tenn.						

a Accepted.

Abstract of proposals for furnishing aerial cableway, received in response to public notice dated February 10, 1909, and opened March 1, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Cable-way appliances with steel towers.		Engine, complete.	Boiler, complete.	Cable-way appliances, except timber, for towers.	Total cost.
		<i>Each.</i>	<i>Each.</i>	<i>Each.</i>	<i>Each.</i>		
1	Lidgerwood Manufacturing Co., New York, N. Y.	\$1,525.00				\$3,165.00	\$4,690.00
2	New York Cableway and Engineering Co., New York, N. Y.	\$4,567.00	1,800.00	\$1,340.00	\$2,800.00		10,507.00
3	American Hoist and Derrick Co., St. Paul, Minn.		2,015.00				2,015.00

a Accepted.

Abstract of proposals for furnishing long-leaf yellow-pine lumber received in response to public notice dated March 1, 1909, and opened March 10, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	444,103 feet b. m. of long- leaf yellow- pine lum- ber sawed to order.
1	Lee Lumber Co., Memphis, Tenn.....	\$16,023.00
2	P. R. Friedel & Co., Memphis, Tenn.....	^a 15,732.00

^a Accepted.

Abstract of proposals for furnishing hose received in response to public notice dated June 11, 1909, and opened June 21, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Hose.		Total cost.	Remarks.
		8-ply, 3-inch, 6 sections.	4-ply, 1½-inch, 8 sections.		
1	Riechman-Crosby Co., Memphis, Tenn.....	Per linear foot. \$2.18 1.60	Per linear foot. \$0.77 .55	\$962.00 702.00	Made by New York Belting Co. American brand, made by Voorhees Rubber Manufacturing Co.
2	Towner & Co., Memphis, Tenn.....	^a 1.60	^a .43	652.00	Excelsior made by Boston Belting Co.
3	Pidgeon-Thomas Iron Co., Memphis, Tenn...	1.60	.58	712.00	Made by Cincinnati Rubber Manufacturing Co.

^a Accepted.

Abstract of proposals for furnishing manila rope and marlin received in response to public notice dated June 5, 1909, and opened June 15, 1909, by Maj. M. L. Walker, Corps of Engineers.

No.	Name and residence of bidder.	Manila rope, about 30,500 pounds.	Tarred marlin, 200 pounds.	Total cost.	Cents per lb.	Cents per lb.
					Cents per lb.	Cents per lb.
1	Macomber-Whyte Rope Co., Chicago, Ill.....	8.47	7.47	\$2,598.29		
2	Lee Brothers, Memphis, Tenn.....	8.70	^a 9.00	2,671.50		
3	Riechman-Crosby Co., Memphis, Tenn.....	8.38	14.00	2,583.73		
4	Orgill Brothers & Co., Memphis, Tenn.....	8 $\frac{1}{2}$		2,706.88		
5	Pidgeon-Thomas Iron Co., Memphis, Tenn.....	^a 8.36	12 $\frac{1}{2}$	2,580.23		
6	Broderick & Bascom Rope Co., St. Louis, Mo. b			2,201.95		

^a Accepted.

b Unit price and weight of rope not stated as required. Sample of rope not up to specifications.

THIRD DISTRICT, VICKSBURG, MISS.

[Officer: Capt. C. S. Smith, Corps of Engineers.]

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., June 12, 1909.

Abstract of proposals for furnishing about 200,000 bushels of coal to steamboats of this district, received in response to advertisement dated May 27, 1909, and opened at 3 o'clock p. m., this date by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Mississippi River.]

No.	Name and address of bidder, and kind of coal offered.	Coal to be delivered in barges at—					
		Terrene, Miss. (about 10,000 bushels).		Greenville, Miss. (about 160,000 bushels).		Vicksburg, Miss. (about 30,000 bushels).	
		Price per bushel.	Amount.	Price per bushel.	Amount.	Price per bushel.	Amount.
1	The Monongahela River Consolidated Coal and Coke Co., Pittsburgh, Pa.: ^a Pittsburg lump third or fourth pool..... Pittsburg mine run third or fourth pool..... Kentucky De Koven lump ^b Kentucky De Koven mine run.....	<i>Cents.</i> 12½	\$1,250	<i>Cents.</i> 12	\$19,200	<i>Cents.</i> 12½	\$3,750
2	West Kentucky Coal Co., 30 Broad street, New York, N. Y.: ^c Kentucky Tradewater lump..... Kentucky Tradewater mine run.....	10 9	1,000 900	10 9	16,000 14,400	10 9	3,000 2,700

^a An additional uniform price of 2 cents per bushel will be charged for all coal delivered in flats, and an additional uniform price of 2 cents per bushel will be charged for loading coal upon steamboats belonging to the United States.

^b One copy of bid not dated.

^c An additional uniform price of $\frac{3}{10}$ cent per bushel will be charged for all coal delivered in flats, and an additional uniform price of $\frac{8}{10}$ cent per bushel will be charged for loading coal upon steamboats belonging to the United States.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., January 5, 1909.

Abstract of proposals for about 22,000 to 26,000 cubic yards of levee work on Mississippi River, Lower Yazoo levee district, below Greenville, Miss., 542½ miles below Cairo, Ill., received in response to advertisement dated December 22, 1908, and opened at 12 o'clock, noon, this date by Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for improving Mississippi River, allotment for "Lower Yazoo levee district."]

No.	Name and address of bidder.	New loop, land side of levee, stations 3436-3444, about 26,000 cubic yards.		Spur, river side of levee, station 3436, about 22,000 cubic yards.		Remarks.
		Price per cubic yard.	Amount.	Price per cubic yard.	Amount.	
1	Geo. Mille, Alhambra, Miss.	<i>Cents.</i> 22½	\$5,850	<i>Cents.</i> 22½	\$4,950	Chancery court seal not affixed to affidavits on duplicate bid. Edmund Taylor's name misspelled in body of guaranty.
2	T. S. Shields, Greenville, Miss.	24 ⁹⁰ ₁₀₀	6,474	24 ⁹⁰ ₁₀₀	5,478	One copy of guaranty not dated. Edmund Taylor's name misspelled in body of guaranty. Place of execution not inserted in affidavits of guarantors.
3	Roach & Stansell, Memphis, Tenn.	23	5,980	25	5,500	Bid not signed "by one of the firm" and names of members of firm not stated in accordance with Specification 9.
4	Israel R. Bobbitt, Station A, New Orleans, La.	25 ⁷⁰ ₁₀₀	6,682	27½	6,050	Bid not dated and date of bid not inserted in guaranty. Guaranty gives date of execution as January 2, 1908 (1909).
5	N. C. Williamson, Millikin, La.	29 ⁵⁰ ₁₀₀	7,670	26 ⁴⁰ ₁₀₀	5,808	Price for spur altered from 24.40 to 26.40 cents per cubic yard without explanation required by Specification 16. Erasures in guaranty not explained.
6	Jno. G. Sessions, Valewood, Miss. ^a	-----	-----	19 ¹⁰ ₁₀₀	4,389	Name of bidder omitted from space in one copy of guaranty and erasures in other copy not explained.

^a Bid accepted.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., November 3, 1908.

Abstract of proposals for about 80,000 cubic yards of levee work on Mississippi River, Lower Yazoo levee district, in Mississippi, stations 950 to 1,000, above Greenville, Miss., 381 miles below Cairo (river side enlargement), received in response to advertisement dated October 3, 1908, and opened at 12 o'clock noon, this date, by W. W. Roof, chief clerk, acting for and in the absence of Capt. Clarke S. Smith, Corps of Engineers.

[Appropriation for Improving Mississippi River, allotment for "Lower Yazoo levee district."]

No.	Name and address of bidder.	Price per cubic yard.	Amount.	Remarks.
1	Lacy Bros., Arkansas City, Ark.	Cents. 33	\$26,400	Names of members of firm not stated (specification 9). Not shown that G. R. Lacy, who signed bid, is one of the firm or its agent. Guaranty informal and incomplete. Lacy Kimball Co. not an authorized surety company.
2	Roach & Stansell, Memphis, Tenn.	23	25,600	
3	Dulaney & Foote, Grace, Miss.	28 ⁷⁵ ₁₀₀	22,960	One copy of bid not dated. Names of members of firm not stated. Not shown that L. C. Dulaney, who signed bid, is one of the firm or its agent. Names of guarantors omitted from body of one copy of guaranty. Oath of first guarantor not subscribed before any official. Certification of guarantors by a justice of the peace informal.
4	Shields Bros. & Nystrom, Greenville, Miss. ^a	25 ²⁵ ₁₀₀	20,200	Bid signed "Shields Bros. & Nystrom," without showing by whom signature was written. Names of members of firm not given. Bid dated November 2; guaranty gives date as October 26, 1908.
5	Helgason Bros., Vicksburg, Miss.	28 ⁷⁵ ₁₀₀	23,000	Bid not dated. Price expressed in figures on one copy only. Bid signed "Helgason Bros." without showing by whom signature was written. Names of members of firm not given. Title (U. S. commissioner) omitted from signature of J. H. Short to justification and certification of guarantors on one copy of bid.
6	R. L. Leonard, Memphis, Tenn.	33	26,400	Bid not dated. Justification of guarantors (\$2,500) not 10 per cent of total amount of bid.

^a Bid accepted.

UNITED STATES ENGINEER OFFICE,
Vicksburg, Miss., July 22, 1908.

Abstract of proposals for levee work in the third district, improving Mississippi River, received in response to advertisement dated July 7, 1908, and opened at 12 o'clock noon, this date, by Captain Clarke S. Smith, Corps of Engineers.

No.	Name and address of bidder.	Lower Yazoo levee district, in Mississippi.											
		Stations 450-500, above Greenville, 373 miles below Cairo, 78,000 cubic yards enlargement.	Stations 900-950, above Greenville, 380 miles below Cairo, 80,000 cubic yards enlargement.	Stations 950-1000, above Greenville, 381 miles below Cairo, 80,000 cubic yards enlargement.	Stations 1345-1375, below Greenville, 499 miles below Cairo, 31,000 cubic yards enlargement.	Price per cubic yard.	Amount.	Price per cubic yard.	Amount.	Price per cubic yard.	Amount.	Price per cubic yard.	Amount.
1	G. R. Lacy, Arkansas City, Ark.												
2	Shields Bros. & Nystrom, Greenville, Miss.	23 ²⁵ ₁₀₀	\$18,642										
3	Roach & Stansell, Memphis, Tenn.	a 23 ²⁵ ₁₀₀	b 18,486	a 23 ²⁵ ₁₀₀	b 18,960	33 ⁷ ₁₀	\$26,960	42	13,020.06	a 33 ¹ ₂	10,385.06		
4	W. T. & Geo. H. Lowrance, Luna Landing, Ark.												
5	R. L. Leonard, Memphis, Tenn.												
6	Donoven & Daley, Lake Providence, La.												

^a Bids accepted.

^b Both or none.

Abstract of proposals for levee work in the third district, improving Mississippi River, received in response to advertisement dated July 7, 1908, etc.—Continued.

No.	Name and address of bidder.	Lower Yazoo levee district, in Mississippi.		Upper Tensas levee district in Arkansas.		Remarks.
		Stations 1570-1645, below Greenville, 502 miles below Cairo, 132,000 cubic yards enlargement.	Stations 2050-2155, 468 miles below Cairo, 100,000 cubic yards enlargement.	Station 1783, 451 miles below Cairo, 10,000 cubic yards spur extension.		
		Price per cubic yard.	Amt.	Price per cubic yard.	Amt.	Price per cubic yard.
1	G. R. Lacy, Arkansas City, Ark.	<i>Cents.</i> -----		<i>Cents.</i> 30 $\frac{1}{2}$	\$30,250	<i>Cents.</i> -----
2	Shields Bros. & Nyström, Greenville, Miss.			33 $\frac{25}{100}$	33,950	
3	Roach & Stansell, Memphis, Tenn.	32 $\frac{7}{10}$	\$43,164	30	30,000	
4	W. T. & Geo. H. Lowrance, Luna Landing, Ark.	a 27 $\frac{9}{10}$	36,828	27 $\frac{3}{4}$	b 27,750	a 27 $\frac{3}{4}$ b 2,775
5	R. L. Leonard, Memphis, Tenn.	34	44,880	27 $\frac{3}{4}$	27,750	
6	Donoven & Daley, Lake Providence, La.			a 27 $\frac{7}{10}$	27,700	

a Bids accepted.

b Both or none.

Guaranty of Lacy Kimball Co. informal.
Names of all members of the firm not given (specification 9). Justification of guarantors not 10 per cent of total bid (specification 8). Christian name of Edmund Taylor, guarantor, not properly spelled in guaranty.
Erasures of dates in guaranty and justification of guarantors not explained (specification 16).
One copy of bid signed only by Geo. H. Lowrance, the two lines preceding being blank. Notation made at foot of bid: "Government to pay for all ditches necessary to drain work." Guaranty gives name of bidder as W. T. Lowrance & Co. Change of date of bid in guaranty not explained. Justification of guarantors not 10 per cent of bid. Affidavit of Morris Rosenstock not sworn to before an official. Justification of guarantors not 10 per cent of bid.
Bid not signed by "one of the firm," and name of members not given.

FOURTH DISTRICT, NEW ORLEANS, LOUISIANA.

[Officer: Capt. H. Burgess, Corps of Engineers.]

UNITED STATES ENGINEER OFFICE,
New Orleans, La., August 24, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated July 24, 1908, and opened August 24, 1908, by Lieut. Wildurr Willing, Corps of Engineers, for levee work in fourth district, improving Mississippi River.

No.	Name and address of bidder.	Horner levee, Lower Tensas District (633 R.), 73,000 cubic yards.		Revenue levee, Pontchartrain District (874 L.), 116,500 cubic yards.	
		Percubic yard.	Amount.	Percubic yard.	Amount.
1	Linnan Bros., McCall, La.			\$0.1994	\$23,230.10
2	Helgason Bros., Vicksburg, Miss.	\$0.2495	\$18,213.50		
3	Donovan & Daley, Don- aldsonville, La.	a. 2470	18,031.00	.2690	31,338.50
4	A. E. Parker, Vicksburg, Miss.			.18 $\frac{2}{3}$	21,746.66
5	R. P. Harris, Batchelor, La.	.29	21,170.00	.2345	27,319.25
6	Israel R. Bobbitt, Baton Rouge, La.	.28	20,440.00	.2240	26,096.00
7	Gibson & Hale, Natchez, Miss.			a. 1849	21,540.85

a Accepted bids.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., September 18, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated August 27, 1908, and opened September 18, 1908, by Capt. H. Burgess, Corps of Engineers, for levee work in fourth district, improving Mississippi River.

No.	Name and address of bidder.	Lake Borgne levee district, Daisy levee (1025 L.), 37,000 cubic yards.		
		Percubic yard.	Amount.	Cubic yards per month.
1	Jos. Hingle, Empire, La.	\$0.39	\$14,430	8,000
2	Michael Cullen, Fort St. Philip, La.	.37	13,690	12,500

Bids considered excessive.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., September 18, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated August 29, 1908, and opened September 18, 1908, by Capt. H. Burgess, Corps of Engineers, for levee work in fourth district, improving Mississippi River.

No.	Name and address of bidder.	Pontchartrain levee district.			
		Bourbon, lot 1 (909 L.), 83,000 cubic yards.		Bourbon, lot 2 (910 L.), 84,000 cubic yards.	
		Per cubic yard.	Amount.	Per cubic yard.	Amount.
1	Bobbitt & Linnan, Baton Rouge, La.				
2	Robt. T. Clark & Co., Natchez, Miss. (all or none)	22.69	\$18,832.70	22.69	\$19,059.60
3	Helgason Bros., Vicksburg, Miss. (all or none)	a 20.9	17,347.00	a 20.9	17,556.00
		23.5	19,505.00	24.5	20,580.00

a Recommended for acceptance.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., October 15, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter dated September 21, 1908, and opened October 15, 1908, by Capt. H. Burgess, Corps of Engineers, for levee work in Fourth district, improving Mississippi River.

No.	Name and address of bidder.	Lower Tensas levee district.					
		Hulse (623 R.), 75,000 cubic yards.		Hewitt (623.5 R.), 74,500 cubic yards.		Limerick (624 R.), 75,000 cubic yards.	
		Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.
1	Hearin & Ryan, Baton Rouge, La.						
2	E. H. Jackson, Natchez, Miss.	32	\$24,000	34	\$25,330.00	22.75	\$17,062.50
3	H. F. Garbish, Vicksburg, Miss.	24.82	18,615	24.82	18,490.90	24.82	18,615.00
4	Robt. T. Clark, Natchez, Miss. (all or none)					24	18,000.00
5	A. E. Parker, Vicksburg, Miss.						
6	Harris & Larkin, Natchez, Miss. (all or none)	a 23.4	17,550	a 23.4	17,433.00	a 23.4	17,550.00
7	O. A. Gibson, Natchez, Miss.						
8	N. Frey, New Orleans, La.						
9	M. L. Linnan, McCall, La.						
10	Israel R. Bobbitt, Baton Rouge, La.	33	24,750	35	26,075.00	26.75	20,062.50
11	Helgason Bros., Vicksburg, Miss. (all or none)					32	24,000.00
12	W. J. Ward, Ashley, La.						

No.	Name and address of bidder.	Lower Tensas levee district.				Pontchartrain district, Longwood (847 L.), 134,000 cubic yards.	
		Aurora (624.5 R.), 74,500 cubic yards.		Burn (625 R.), 74,500 cubic yards.			
		Per cubic yard.	Amount.	Per cubic yard.	Amount.		
1	Hearin & Ryan, Baton Rouge, La.						
2	E. H. Jackson, Natchez, Miss.	22.75	\$16,948.75	22.75	\$16,948.75	a 16.94	\$22,699.60
3	H. F. Garbish, Vicksburg, Miss.						
4	Robt. T. Clark, Natchez, Miss. (all or none)	24.82	18,490.90	24.82	18,490.90		
5	A. E. Parker, Vicksburg, Miss.	24	17,880.00				
6	Harris & Larkin, Natchez, Miss. (all or none)	a 23.4	17,433.00	a 23.4	17,433.00		
7	O. A. Gibson, Natchez, Miss.	32	23,840.00				
8	N. Frey, New Orleans, La.						
9	M. L. Linnan, McCall, La.	35	26,075.00				
10	Israel R. Bobbitt, Baton Rouge, La.	22	16,390.00	27	20,115.00		
11	Helgason Bros., Vicksburg, Miss. (all or none)	20.9	15,570.50	20.9	15,570.50		
12	W. J. Ward, Ashley, La.	24.25	18,066.25	24.75	18,438.75		

a Accepted bids.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., October 31, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter dated October 16, 1908, and opened October 31, 1908, by Capt. H. Burgess, Corps of Engineers, for levee work in Fourth district, improving Mississippi River.

No.	Name and address of bidder.	Lake Borgne levee district, Daisy levee (1025 L.), 37,000 cubic yards.	
		Per cubic yard.	Amount.
1	Jos. Hingle, Empire, La.	<i>Cents.</i> a 29 $\frac{1}{2}$	\$10,853.33
2	Pat Lyons, Home Place, La. ^b	35	12,950.00

a Recommended for acceptance.

b Certified check for \$1,295.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., December 10, 1908.

Abstract of proposals received in response to public notice by advertisement, circular letter, dated December 4, 1908, and opened December 10, 1908, by Capt. H. Burgess, Corps of Engineers, for Chalmette levee, Lake Borgne levee district (970 L.), about 7,000 cubic yards.

No.	Name and address of bidder.	Per cubic yard.		Amount.
		Cents.	a 45	
1	Geo. H. Conrad, New Orleans, La.			\$3,150

a Recommended for acceptance.

Six other parties invited to bid; no bids received.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., December 17, 1908.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated December 7, 1908, and opened December 17, 1908, by Capt. H. Burgess, Corps of Engineers, for Plaquemine levee, Atchafalaya levee district (854 R.), about 13,000 cubic yards.

No.	Name and address of bidder.	Per cubic yard.		Amount.
		Cents.	b 17	
1	Robt. T. Clark, Natchez, Miss.	24.45		\$3,178.50
2	Newman & Wilds, Natchez, Miss.	24.5		3,185.00
3	Kaiser & Maloney, Plaquemine, La. ^a		b 17	2,210.00

a Certified check for \$300.

b Recommended for acceptance.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., June 1, 1909.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated May 1, 1909, and opened June 1, 1909, by Capt. H. Burgess, Corps of Engineers, for one large steel-hull, stern-wheel towboat.

No.	Name and address of bidder.	Regular bid.	Alternate bid.
1	M. A. Sweeney Shipyard and Foundry Co., Jeffersonville, Ind.	\$47,700	-----
2	Dubuque Boat and Boiler Works, Dubuque, Iowa.	45,907	-----
3	Ed. J. Howard, Jeffersonville, Ind.	a 38,700	b \$38,000
4	Thomas M. Rees, Pittsburg, Pa.	58,900	c 59,200
	Johnson Iron Works, New Orleans, La.	42,900	-----

^a Accepted bid.^b Delivery at Jeffersonville.^c Special proposition.UNITED STATES ENGINEER OFFICE,
New Orleans, La., June 28, 1909.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated May 28, 1909, and opened June 28, 1909, by Capt. H. Burgess, Corps of Engineers, for 7,500 tons rock, Natchez Harbor, etc.

No.	Name and address of bidder.	On United States barges at—				Remarks.
		Vidalia, La.	Angola, La.	Naples, La.	New Or- leans Har- bor.	
1	Zeb Ward, Little Rock, Ark...per ton.	-----	\$2.50	\$2.00	-----	Quarries at Winn- field, La.
2	Guy Dickinson, Little Rock, Ark., per ton.	a \$2.25	-----	-----	-----	Quarries opposite Little Rock.
3	Frank A. Daniels, New Orleans, La., per ton.	-----	-----	-----	b \$2.00	
4	Oscar F. Barrett, Cincinnati, Ohio, per ton.	c 2.35	-----	-----	-----	

^a Accepted bid.^b Alongside ship.

^c On his own barges at Vidalia, La. Demurrage \$10 per day on each barge of about 1,000 tons. Quarries Rosi Claire, Ill., and Apple Creek, Mo.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., June 28, 1909.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated May 28, 1909, and opened June 28, 1909, by Capt. H. Burgess, Corps of Engineers, for 7,500 tons rock, New Orleans Harbor.

No.	Name and address of bidder.	On United States barges at—			Remarks.
		Vidalia, La.	New Or- leans Har- bor.	Dock No. 1, Port Chal- mette.	
1	Guy Dickinson, Little Rock, Ark...per ton..	\$2.25	-----	-----	Quarries opposite Little Rock, Ark.
2	Frank A. Daniels, New Orleans, La...do...	-----	a \$2.00	-----	Quarries at Winn- field, La.
3	Richard M. Murphy, New Orleans, La., per ton.	-----	2.05	-----	
4	D. & J. Tranchina, New Orleans, La..per ton..	-----	b 1.92	-----	Do.
5	Zeb Ward, Little Rock, Ark., per ton..do..	-----	2.00	\$2.40	

^a Alongside ship.^b 1,500 tons only.

NOTE.—Award deferred pending examination of quarries.

UNITED STATES ENGINEER OFFICE,
New Orleans, La., June 29, 1909.

Abstract of proposals received in response to public notice by newspaper advertisement and circular letter, dated May 29, 1909, and opened June 29, 1909, by Capt. H. Burgess, Corps of Engineers, for levee work in Fourth district, improving Mississippi River.

No.	Name and address of bidder.	Lower Tensas levee district.					Remarks.	
		Greens, lot 2 (823 R.).			Greens, lot 1 (823 R.).			
		Per cubic yard.	91,500 cubic yards.	118,500 cubic yards.	Per cubic yard.	103,000 cubic yards.		
1	M. L. Linnan, Fish Pond, La.	Cents. 39.0	\$35,685.00	\$46,215.00	Cents. 39.0	\$40,170	Complete in 20 working months.	
2	Helgason Bros., Vicksburg, Miss.	a 31.5	28,822.50	37,327.50	31.5	32,445	12,000 cubic yards per month.	
3	O. A. Gibson, Natchez, Miss.	45.0	41,175.00	53,325.00	37.0	38,110		
4	R. T. Clark & Co., Natchez, Miss.	32.7	29,920.50	38,749.50	32.7	33,681	All or none, 12,500 cubic yards per month.	
5	Donovan & Daley, Lake Providence, La.	34.9	a31,193.50	b41,356.50	c 31.4	ab 32,342		
6	Jas. R. Marlow, Natchez, Miss.	-----	-----	-----	35.0	36,050	6,000 cubic yards per month.	
7	H. F. Garbish, Vicksburg, Miss.	32.5	29,737.50	38,512.50	32.5	33,475	12,000 cubic yards per month.	

^a Both 33½ cents (\$64,275).

^b Both 33½ cents (\$73,633.33). Seven thousand cubic yards per month. If awarded both lots, 14,000 cubic yards per month.

^c Bids recommended for acceptance.

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