

Abstract of Proposals for Material and Labor for the Engineer Department

LETTER FROM THE SECRETARY OF WAR

TRANSMITTING

ABSTRACTS OF PROPOSALS RECEIVED DURING THE FISCAL YEAR
ENDING JUNE 30, 1917, FOR MATERIAL AND LABOR IN
CONNECTION WITH WORKS UNDER THE
ENGINEER DEPARTMENT



JANUARY 8, 1918.—Referred to the Committee on Rivers and Harbors
and ordered to be printed

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LETTER OF TRANSMITTAL.

WAR DEPARTMENT,
Washington, January 5, 1918.

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

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, 1917, for material and labor in connection with works under the Engineer Department.

Very respectfully,

NEWTON D. BAKER,
Secretary of War.

LETTER OF SUBMITTAL.

WAR DEPARTMENT,
OFFICE OF THE CHIEF OF ENGINEERS,
Washington, January 4, 1918.

From: The Chief of Engineers, United States Army.

To: The Secretary of War.

Subject: Abstract of proposals.

1. Section 230 of the Revised Statutes provides that—

Whenever the Secretary of War invites proposals for any works, or for any materials or labor for any work, he shall report to Congress, at its next session, all bids therefor with the names of the bidders.

2. In pursuance thereof I have to submit herewith abstracts of proposals received during the fiscal year ending June 30, 1917, for material and labor in connection with works under the Engineer Department.

W. M. BLACK,
Major General.

ABSTRACT OF PROPOSALS FOR MATERIAL AND LABOR FOR ENGINEER DEPARTMENT, 1916.

PORTLAND (ME.) DISTRICT.

[Officer: Maj. F. A. Pope, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for Portland cement, concrete sand, and sand fill, Apr. 23, 1917.

Bidders.	Portland cement, 13,000 barrels.			Remarks.
	F. o. b. cars, Portland.		Charge for bags.	
	Price.	Amount.		
3. Charles S. Chase Co., ¹ Portland, Me..	\$2.05	\$26,650	\$0.10	Discount of 5 cents per barrel for cash in 10 days. Assumes track charges. Includes sacks returnable at 10 cents each.
5. The Atlas Portland Cement Co., New York City.	2.35	30,550	.....

¹ Contract made with Charles S. Chase Co.

Bidders.	Concrete sand, 7,000 tons.	
	Price.	Amount.
4. The P. H. Doyen Co., ¹ South Portland, Me.....	\$0.85	\$5,950.00
6. Boston Sand & Gravel Co., Boston, Mass.....	.97	6,790.00

¹ Contract made with the P. H. Doyen Co.

Bidders.	Sand fill, 27,000 tons.	
	Price.	Amount.
4. The P. H. Doyen Co., ¹ South Portland, Me.....	\$0.85	\$22,950.00
6. Boston Sand & Gravel Co., Boston, Mass.....	.93	25,110.00

¹ Contract made with the P. H. Doyen Co.

Abstract of proposals for reinforcing steel, Apr. 23, 1917.

Bidders.	F. o. b. cars, Portland.		Wharf, Portland.		Wharf, Cushing Island.		Vessel, Cushing Island.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
11. Concrete Steel Products Co., Boston, Mass. ²	\$75.20	\$6,166.40	\$76.00	\$6,232.00	.....	.....	\$77.00	\$6,314.00
2. Forgiere & Romano Co., Portland, Me. ³.....	.....	.....	81.34	6,669.88	.....	.....	.....	.....
7. Edward A. Tucker Co., Boston, Mass. ⁴	80.00	6,560.00	81.00	6,642.00	\$84.00	\$6,888.00	83.40	6,838.80

¹ Contract made with Concrete Steel Products Co. Contract completed.

² Will not guarantee time of delivery.

³ For immediate acceptance.

⁴ Informal.

BOSTON (MASS.) DISTRICT.

[Officer: Col. Chas. L. Potter, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for constructing a duct line between Fort Banks and Fort Heath, Winthrop, Mass., opened Apr. 16, 1917.

Name and address of bidder.	Price bid.
1. New England Telephone & Telegraph Co., Boston, Mass.....	\$6,500
2. Hugh Nawn Contracting Co., Roxbury, Mass.....	9,800
3. Robert C. Allen, Worcester, Mass.....	15,160
4. Hanscom Construction Co., Boston, Mass.....	11,610

Contract awarded New England Telephone & Telegraph Co.

RIVERS AND HARBORS.

Abstract of proposals for rubblestone in the jetties of Newburyport Harbor, Mass., opened Dec. 15, 1916.

Name and address of bidder.	Price bid per ton of 2,000 pounds.
1. Cape Ann Granite Corporation, Beverly, Mass.....	\$1.88
2. Rockport Granite Co., Boston, Mass.....	1.84
3. Bay State Dredging & Contracting Co., Boston, Mass.....	2.20

Contract awarded the Rockport Granite Co.

Abstract of proposals for Weymouth Fore River, Mass., opened Apr. 18, 1917.

Name and address of bidder.	Price bid per cubic yard (scow measurement).
1. Morris & Cummings Dredging Co., New York, N. Y.....	\$0.364
2. Boston Dredging Co., Baltimore, Md.....	.299
3. Charles M. Cole, Fall River, Mass.....	.34
4. American Pipe & Construction Co., Philadelphia, Pa.....	.50
5. Bay State Dredging & Contracting Co., Boston, Mass.....	.305
6. Canal Construction Co. (Inc.), New York, N. Y.....	.37
7. Coastwise Dredging Co., Norfolk, Va.....	.324
8. J. S. Packard Dredging Co., Providence, R. I.....	.334

All bids rejected as excessive.

WRECKS.

Abstract of proposals for removing wreck of schooner "Marguerite," in Boston Harbor, Mass., opened Sept. 29, 1916.

Name and address of bidder.	Price bid.
1. George T. Rendle Co., East Boston, Mass.....	\$900
2. Charles W. Johnston, Boston, Mass.....	750
3. The T. A. Scott Co. (Inc.), East Boston, Mass.....	668
4. Eugene Boehm, Atlantic City, N. J.....	1,872
5. C. T. Johnston, Lewes, Del.....	570
6. Bay State Dredging & Contracting Co., Boston, Mass.....	1,860
7. Betts Bros. & Co., East Boston, Mass.....	673

Contract awarded the T. A. Scott Co. (Inc.).

NEWPORT (R. I.) DISTRICT.

[Officer: Col. J. H. Willard, United States Army, retired.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Providence River and Harbor, R. I., received in response to newspaper advertisement and opened Oct. 23, 1916, at Newport, R. I., under direction of Col. W. E. Craighill, Corps of Engineers.

Name and address of bidder.	Amount of bid.				Grand total.
	Subdivision A, approximately 1,865,000 cubic yards soft material.		Subdivision B, approximately 359,000 cubic yards hard material.		
	Rate per cubic yard.	Total.	Rate per cubic yard.	Total.	
	<i>Cents.</i>		<i>Cents.</i>		
1. J. S. Packard Dredging Co., Providence, R. I.....	11.0	\$205,150	22.5	\$80,775	1 \$285,925
2. Bay State Dredging & Contracting Co., Boston, Mass.....	10.0	186,500	30.0	107,700	294,200
3. P. Sanford Ross (Inc.), Jersey City, N. J.....	14.4	268,560	18.4	66,056	334,616
4. Bowers Southern Dredging Co., Galveston, Tex.....	14.0	261,100	20.0	71,800	332,900
5. Maryland Dredging & Contracting Co., Baltimore, Md.....	13.6	253,640	20.0	71,800	325,440

¹ Accepted.

WRECKS.

Abstract of proposals for removing the wreck of the United States transport "Yankee" from Buzzards Bay, Mass., received in response to newspaper advertisement and opened Oct. 2, 1916, at Newport, R. I., by Col. W. E. Craighill, Corps of Engineers.

Name and address of bidder.	Amount of bid.	Proposed method of removal.	Proposed manner of disposal.
1. Merritt & Chapman Derrick & Wrecking Co., New York, N. Y.	1 \$11,890	Taking it entirely away.	Not given.
2. The T. A. Scott Co. (Inc.), New London, Conn.....	47,800	.....do.....	Do.
3. Charles W. Johnston, Lewes, Del.....	26,500	.....do.....	Do.
4. Eugene Boehm, Atlantic City, N. J.....	24,872	.....do.....	Do.

¹ Accepted.

Abstract of proposals for removing the wreck of schooner "Charles A. Dyer" from Nantucket Harbor, Mass., received in response to circular letter proposal and opened Oct. 14, 1916, at Newport, R. I., by Col. W. E. Craighill, Corps of Engineers.

Name and address of bidder.	Amount of bid.	Proposed method of removal.	Proposed manner of disposal.
1. Eugene Boehm, Atlantic City, N. J.....	\$552	Taking it entirely away.	Not given.
2. Frank C. Taylor, New Bedford, Mass.....	800	.....do.....	Do.
3. Charles W. Johnston, Lewes, Del.....	1 523	.....do.....	Do.
4. Merritt & Chapman Derrick & Wrecking Co., New York, N. Y.	1,469	.....do.....	Do.

¹ Accepted.

Abstract of proposals for removing the wreck of schooner "Carrie F. Roberts" from Block Island Harbor, R. I., received in response to circular proposal, and opened May 31, 1917, at Newport, R. I., by Col. J. H. Willard, U. S. Army, retired.

Name and address of bidder.	Amount of bid.	Proposed method of removal.	Proposed manner of disposal.
1. C. W. Johnston, Lewes, Del.....	1 \$615	Taking it entirely away.	Not given.
2. Eugene Boehm, Atlantic City, N. J.....	702	do.....	Do.
3. The T. A. Scott Co. (Inc.), New London, Conn.....	1,500	do.....	Do.

¹ Accepted.

NEW LONDON (CONN.) DISTRICT.

(Officer: Col. S. W. Roessler, U. S. Army, retired.)

RIVERS AND HARBORS.

Abstract of proposals received in response to circular notice and opened Sept. 5, 1916, for maintenance dredging in the Housatonic River, Conn.

Bidders.	Price bid (estimated quantity, exclusive of allowable over-depth, 25,800 cubic yards).		Remarks.
	Unit.	Total.	
1. The T. A. Scott Co. (Inc.), New London, Conn.	<i>Cents.</i> 40	\$10,320	Certified check for \$1,000 in lieu of guaranty.
2. John P. Randerson, Albany, N. Y....	23	¹ 5,934	Signature of president of guaranty company on guaranty not attested; waived.

¹ Accepted.

Abstract of proposals for dredging in harbor of refuge, Duck Island Harbor, Conn., received in response to advertisement and opened Sept. 23, 1916.

Bidders.	Price bid (estimated quantity, 480,000 cubic yards).		Remarks.
	Unit.	Total.	
1. Bay State Dredging & Contracting Co., Boston, Mass.	<i>Cents.</i> 9.47	\$45,456	Evidence of authority of treasurer to sign proposal not furnished; waived.
2. Coastwise Dredging Co., Norfolk, Va.	8 $\frac{1}{2}$	42,600	
3. J. S. Packard Dredging Co., Providence, R. I.	7.7	36,960	
4. Morris & Cumings Dredging Co., New York, N. Y.	9.8	47,040	
5. Boston Dredging Co., Boston, Mass..	9.85	47,280	Evidence of authority of president to sign proposal not furnished; waived.
6. P. Sanford Ross (Inc.), Jersey City, N. J.	9.9	47,520	
7. Maritime Dredging Co., New York, N. Y.	11.44	54,912	Evidence of authority of president to sign proposal not furnished; waived.

¹ Accepted.

Abstract of proposals for dredging in harbors at New Haven, Norwalk, and Stamford, Conn., received in response to advertisement and opened Oct. 13, 1916.

Bidders.	For the work as a whole.	For the three works separately.					
		New Haven Harbor; estimated, 124,000 cubic yards.		Norwalk Harbor; estimated, 58,000 cubic yards.		Stamford Harbor, estimated, 39,000 cubic yards.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.
1. Maritime Dredging Co., New York.	No bid....	<i>Cents.</i> 18.5	\$22,940	<i>Cents.</i> 17	\$9,860	<i>Cents.</i> 122	\$8,850
2. Boston Dredging Co., Boston, Mass., or Baltimore, Md.	...do.....	17.9	22,196	-----	-----	-----	-----

¹ Accepted.

Abstract of proposals for extending Stratford Dyke, Housatonic River, Conn., received in response to advertisement and opened Oct. 3, 1916.

Bidders.	Price per long ton of stone in place; estimated quantity, 4,000 long tons.	Remarks.
1. E. S. Belden & Sons, Hartford, Conn.....	\$2.57	No. 2 accepted.
2. Estate of John Beattie, Leete Island, Conn.....	2.12	

Abstract of proposals for maintenance dredging in Connecticut River below Hartford, Conn., received in response to advertisement and opened Mar. 23, 1917.

Bidders.	Price bid on estimated quantity of 100,000 cubic yards.		Remarks.
	Unit.	Total.	
1. Hartford & New York Transportation Co., Hartford, Conn.	<i>Cents.</i> 16	\$16,000	Copy of authority of vice president to sign proposal not furnished; waived. Accepted.

NEW YORK (N. Y.), FIRST DISTRICT.

[Officer: Maj. E. M. Adams, United States Army, retired.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering lock-operating machinery for the Troy Lock, Hudson River, Troy, N. Y., received in response to advertisement of the United States Engineer Officer, Albany, N. Y., dated June 28, 1916, and publicly opened at noon July 20, 1916.

Name and address of bidder.	Lot A castings, 49,367 pounds.		Lot B castings, 36,628 pounds.		Lot C castings, 24,391 pounds.		Time of delivery, days.				Method of delivery.
	Per pound.	Time of delivery.	Per pound.	Time of delivery.	Per pound.	Time of delivery.	Lots A and B.	Lots A and C.	Lots B and C.	Lots A, B, and C.	
1. R. D. Wood & Co., ¹ Philadelphia, Pa.....	\$0.1545	<i>Days.</i> 95	\$0.142	<i>Days.</i> 85	\$0.204	<i>Days.</i> 85	105	105	100	155	Rail.

¹ Award made to R. D. Wood & Co.

Abstract of proposals for the hire of 2 dump scows received in response to public notice from the United States Engineer Office, Albany, N. Y., dated Aug. 10, 1916, and publicly opened Aug. 21, 1916.

Name and address of bidder.	Name or number.	Rate per day.	Rate per month.	Length, water line.	Beam, water line.	Draft, light.	Draft, fully loaded.	Capacity, cubic yards.	Now located at—
1. John A. Seely, New York City. ¹	SY-8....	\$12.00	\$355	<i>Feet.</i> 127	<i>Feet.</i> 32	<i>Feet.</i> 3	<i>Feet.</i> 10	550	Albany, N. Y. Do.
	SY-10...	12.00	355	127	32	3	10	550	
2. P. Sanford Ross (Inc.), Jersey City, N. J.	4.....	\$16.00	.....	95	31.25	5	10.5	496	Brooklyn, N. Y. Do.
	5.....	\$14.00	.....	94	31.25	5	10.5	520	
3. Robert Rogers, New York City.	RR-8....	20.00	.....	128	37	3	11.5	950	Brooklyn, N. Y. Do.
	RR-9....	20.00	.....	128	37	3	11.5	950	
4. Hastorf Contracting Co. (Inc.), New York City.	Virginia	12.50	.....	119	35	4.5	13	750	Do. Do.
	Astoria.	12.50	.....	120	34	4	13	750	
5. Ward & Co., Astoria, N. Y.	Lobster	16.00	.....	125	35	3	12	900	Astoria, N. Y. Do.
	Pelican	16.00	.....	125	35	3	12	900	

¹ Award made to John A. Seely.
² With man.

³ Without man.

Abstract of proposals for dredging in Hudson River Channel, N. Y., received and opened by Col. H. Taylor, Corps of Engineers, in response to advertisement. Bids opened at United States Engineer Office, New York, N. Y., Nov. 24, 1916.

Name and address of bidder.	For all materials except broken rock and boulders $\frac{1}{2}$ cubic yard in size or larger, ledge rock, and wrecks or wreckage.	
	Jersey City water front.	Weehawken-Edgewater water front.
1. Morris & Cumings Dredging Co, New York.....	<i>Per cu. yd.</i> \$0.18 $\frac{3}{8}$	<i>Per cu. yd.</i> \$0.23 $\frac{3}{8}$
2. Coastwise Dredging Co., Norfolk, Va.....	.....	.20 $\frac{1}{4}$
3. Eugene Breymann, Boston, Mass. ¹.....	.15 $\frac{1}{2}$	.19 $\frac{1}{2}$

¹ Award made to Eugene Breymann.

Abstract of proposals for furnishing and delivering one 20-inch dredge pump at Troy, N. Y., received in response to advertisement dated Dec. 2, 1916, by Col. H. Taylor, Corps of Engineers, and opened at the United States Engineer office, New York, N. Y., Dec. 18, 1916.

Names and addresses of bidders.	Price.
1. Taylor-Wharton Iron & Steel Co., High Bridge, N. J.....	\$10,351
2. Ellicott Machine Corporation, Baltimore, Md.....	16,238

Bids rejected.

Abstract of proposals for dredging in Port Chester Harbor, N. Y., received and opened by Col. H. Taylor, Corps of Engineers, in response to advertisement. Bids opened at United States Engineer office, New York, N. Y., Dec. 8, 1916.

Name and address of bidders.	For all materials except broken rock and bowlders $\frac{1}{2}$ cubic yard in size or larger, and ledge rock, per cubic yard (scow measurement).	For ledge rock, broken rock, and bowlders over 3 cubic yards in size, per cubic yard (solid measurement).
1. Maritime Dredging Co., New York City.....	\$0.39	\$15.70
2. Charles W. Johnston, Lewes, Del.....	.40	9.50

Bids rejected.

Abstract of proposals for hire of 2 dump scows for use in dredging operations in the first district, New York City, received in response to advertisement from this office dated Dec. 15, 1916, and publicly opened Dec. 26, 1916.

Name and address of bidder.	1 scow per month.
1. Ward & Co., Astoria, N. Y. ¹	\$390
2. Robert Rogers, 54 South Street, New York City.....	600

¹ Award made to Ward & Co.

Abstract of proposals for hire of a tug for use in dredging operations in the first district New York City, received in response to advertisement from this office and publicly opened Dec. 26, 1916.

Name and address of bidder.	1 tug per month.
1. Reichert Towing Line (Inc.), Brooklyn, N. Y. ¹	\$1,500
2. Moran Towing & Transportation Co., New York, N. Y.....	1,600

¹ Award made to Reichert Towing Line (Inc.).

Abstract of proposals for dredging and rock removal in the Hudson River, N. Y., received in response to advertisement dated Jan. 9, 1917, opened Feb. 8, 1917, by Col. H. Taylor, Corps of Engineers, at United States Engineer Office, New York, N. Y.

Names and addresses of bidders.	Class I.		Class II.		Total.
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	
1. P. Sanford Ross (Inc.), Jersey City, N. J.....	\$5.11	\$459,900	\$0.64	\$140,800	\$600,700
2. Great Lakes Dredge & Dock Co., Albany, N. Y.....	2.60	234,000	.60	132,000	366,000
3. Maryland Dredging & Contracting Co., Baltimore, Md.	4.16	374,400	.70	154,000	528,400
4. James Stewart & Co. (Inc.), New York ¹	2.64	237,600	.55	121,000	358,600
5. Timothy J. Dady, Brooklyn, N. Y.....	5.89	530,100	.59	129,800	659,900
6. Eugene Breymann, New York.....	4.80	432,000	.80	176,000	608,000

¹ Award made to James Stewart & Co. (Inc.).

Abstract of proposals for the hire of a gasoline launch received in response to public notice from United States Engineer suboffice, Albany, N. Y., and publicly opened by Maj. James F. Bell, Corps of Engineers, on Mar. 22, 1917.

Name and address of bidder.	Name of launch.	Price bid per day.	Dimensions.			
			Length.	Beam.	Draft, light.	Draft, fully loaded.
1. Baldwin Bros., Albany, N. Y. ¹	Billee B.....	\$9.50	<i>Feet.</i> 40	<i>Feet.</i> 10-12	<i>Inches.</i> 48	<i>Inches.</i> 54
2. R. T. Windle, New York City.....	Pal.....	10.00	35	39	30	36

Name and address of bidder.	Name of launch.	Guaranteed speed fully loaded, per hour.	Cabin capacity, passengers.	Deck capacity outside of cabin passengers.	Gasoline used per hour running full speed, loaded.	Number of crew required to operate.
1. Baldwin Bros., Albany, N. Y. ¹	Billee B.....	8-9	25	25	.....	1
2. R. T. Windle, New York City.....	Pal.....	8	12	15	3	1

¹ Award made to Baldwin Bros.

Abstract of proposals for the hire of a gasoline launch received in response to public notice from United States Engineer suboffice, Albany, N. Y., and publicly opened by Maj. James F. Bell, Corps of Engineers, on Mar. 26, 1917.

Name and address of bidder.	Name of launch.	Price bid per day with operator.	Price bid per day without operator.	Dimensions.	
				Length.	Beam.
1. R. Lenahan, Athens, N. Y.....	Marjorie.....	\$7.50	\$4.00	<i>Feet.</i> 30	<i>Feet.</i> 7½
2. Harry J. Baldwin, Albany, N. Y. ¹	Lilly Dale.....	6.00	3.50	31	6½
3. H. T. Windle, New York, N. Y.....	Hudson Girl.....	8.50	.....	25	(?)
4. S. H. H. Parsons, New York, N. Y.....	Vendaval.....	7.50	5.00	26	7

Name and address of bidder.	Name of launch.	Dimensions—Continued.		Guaranteed speed fully loaded, per hour.	Deck capacity, passengers.	Gasoline used per hour running at full speed, loaded.
		Draft, light.	Draft, fully loaded.			
1. R. Lenahan, Athens, N. Y.....	Marjorie.....	<i>Inches.</i> 24	<i>Inches.</i> 32	<i>Miles.</i> 8-10	8	<i>Gallons.</i> 2-3
2. Harry J. Baldwin, Albany, N. Y. ¹	Lilly Dale.....	36	42	8½	18	3½
3. H. T. Windle, New York, N. Y.....	Hudson Girl.....	30	36	8	20	2
4. S. H. H. Parsons, New York, N. Y.....	Vendaval.....	30	34	8	16	1½

¹ Award made to Harry J. Baldwin.

² And up.

Abstract of proposals for building one 2-story 8-room stucco lockmaster's house at the lock, Hudson River, at Troy, N. Y., received in response to advertisement dated Mar. 13, 1917, opened Apr. 13, 1917, by Col. H. Taylor, Corps of Engineers, at the United States Engineer office, New York, N. Y.

Names and addresses of bidders.	Lock master's house.
1. Philip Casey, jr., Troy, N. Y.....	\$7,420
2. Nial Bros. Construction Co., Troy, N. Y.....	7,340
3. George Spence, jr., Troy, N. Y. ¹	6,950

¹ Award made to George Spence, jr.

Abstract of proposals for furnishing and delivering one 20-inch dredge pump at Albany, N. Y., received in response to advertisement dated Apr. 21, 1917, opened Apr. 28, 1917, by Col. H. Taylor, Corps of Engineers, at United States Engineer office, New York, N. Y.

No formal proposals received.

Abstract of proposals for constructing rubble mounds in front of breakwaters, Plattsburg Harbor, N. Y., and Burlington Harbor, Vt., received in response to advertisement dated Apr. 3, 1917, opened May 3, 1917, by Col. H. Taylor, Corps of Engineers, at United States Engineer office, New York, N. Y.

Name and address of bidder.	If awarded only one work.				If awarded both works.			
	Plattsburg Harbor, N. Y.		Burlington Harbor, Vt.		Plattsburg Harbor, N. Y.		Burlington Harbor, Vt.	
	Per short ton of 2,000 pounds.	Amount.	Per short ton of 2,000 pounds.	Amount.	Per short ton of 2,000 pounds.	Amount.	Per short ton of 2,000 pounds.	Amount.
1. Mohawk Dredge & Dock Co. (Inc.), Herkimer, N. Y.	\$1.95	\$15,600	\$1.85	\$29,600	\$1.95	\$15,600	\$1.85	\$29,600
2. Holler & Shepard, Rochester, N. Y.	2.00	16,000	2.50	40,000	1.95	15,600	2.35	37,600
3. Great Lakes Dredge & Dock Co., Albany, N. Y.	3.20	25,600	2.70	43,200	2.70	21,600	2.70	43,200
4. James E. Cashman, ¹ Burlington, Vt.	1.90	15,200	1.70	27,200	1.80	14,400	1.80	28,800

¹ Award made to James E. Cashman.

Abstract of proposals for dredging in Harlem River, N. Y., received in response to advertisement dated Apr. 4, 1917, opened May 4, 1917, by Col. H. Taylor, Corps of Engineers, at United States Engineer office, New York, N. Y.

Name and address of bidder.	For all materials except broken rock and bowlders $\frac{1}{2}$ cubic yard in size, or larger, and ledge rock, per cubic yard.
1. Coastwise Dredging Co., Norfolk, Va. ¹	\$0.539

¹ Bid rejected.

Abstract of proposals for dredging in Hudson River, N. Y., received in response to advertisement dated May 12, 1917, opened June 11, 1917, by Major E. M. Adams, United States Army, at United States Engineer office, New York, N. Y.

Names and addresses of bidders.	For all material except ledge rock, scow measurement.	
	Per cubic yard.	Amount.
1. Maryland Dredging & Contracting Co., Baltimore, Md.	\$0.35	\$108,500
2. American Pipe & Construction Co., Philadelphia, Pa. ¹ .....	.312	96,720
3. Great Lakes Dredge & Dock Co., Albany, N. Y. ....	.495	153,450
4. James Stewart & Co. (Inc.), New York City .....	.33	102,300

¹ Award made to American Pipe & Construction Co.

Abstract of proposals for dredging in Hudson River Channel, New York Harbor, N. Y., received in response to advertisement dated May 29, 1917, opened June 14, 1917, by Maj. E. M. Adams, United States Army, at United States Engineer office, New York N. Y.

Name and address of bidder.	For all materials except broken rock and bowlders $\frac{1}{2}$ cubic yard in size, or larger, and ledge rock, per cubic yard, scow measurement.
1. Coastwise Dredging Co., Norfolk, Va. ¹	\$0.43

¹ Bid rejected.

COAL.

Abstract of proposals for furnishing and delivering 8,500 tons (more or less) of bituminous coal at Albany, N. Y., received in response to advertisement dated Mar. 10, 1917, opened Apr. 9, 1917, by Col. H. Taylor, Corps of Engineers, at United States Engineer Office, New York, N. Y.

No formal proposals received.

WRECKS.

Abstract of proposals for removing wreck of barge Starling, lying sunk in the Harlem River, N. Y., received by Col. H. Taylor, Corps of Engineers, in response to public notice dated Jan. 17, 1917, and opened at United States Engineer Office, New York, N. Y., Jan. 27, 1917.

Names and addresses of bidders.	Price for removing and disposing of wreck.	Amount allowed for wreck and material recovered.
1. Charles W. Johnston, Lewes, Del.....	\$890	\$1
2. Charles W. Johnston, Lewes, Del.....	1,270	5
3. Merritt & Chapman Derrick & Wrecking Co., New York City ¹	789	15
4. Baxter Wrecking Co., New York, N. Y.....	1,082	2
5. Hudson River Lighterage Co., New York, N. Y.....	1,065	.....

¹ Award made to Merritt & Chapman Derrick & Wrecking Co.

NEW YORK, N. Y., SECOND DISTRICT.

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

FORTIFICATIONS.

Abstract of proposals for furnishing delivered at Highland Beach, N. J., 12 dump and 4 flat cars, received in response to public notice, and opened at 12 o'clock noon, Feb. 17, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

Name and address of bidder.	Price for lot of 12 dump cars.	Price for lot of 4 flat cars.
1. Continental Car Co., New York, N. Y. ¹	\$4,440 64	\$960 16
2. Easton Car & Construction Co., Easton, Pa.....	4,376	944
3. Western Wheeled Scraper Co., Aurora, Ill.....	6,492	1,132
4. The Gregg Co. (Ltd.), New York, N. Y.....	4,320	870

¹ Bid accepted.

Abstract of proposals for furnishing steel castings for Fort Hancock, N. J., received in response to public notice, and opened at 12 o'clock noon on Nov. 24, 1916, by Col. Frederic V. Abbot, Corps of Engineers.

Name and address of bidder.	Weight of material required, 66½ tons, more or less.		Time of delivery.	Point of delivery.	Place of manufacture.
	Unit, per pound.	Total bid.			
1. Federal Steel Foundry Co., Chester, Pa.	.....	¹ \$9,695	Not stated.....	Highland, Beach, N. J.	Chester, Pa.
2. Bethlehem Steel Co., South Bethlehem, Pa.	8½c.	11,172	.....do.....	.....do.....	South Bethlehem, Pa.
3. Penn Seaboard Steel Corporation, Philadelphia, Pa.	10c.	13,300	60 days after receipt of patterns.	Fort Hancock, or equivalent.	Chester, Pa.
4. American Steel Foundries, Chicago, Ill.	.....	10,640	45 days after receipt of order.	Highland Beach, N. J.	Do.

¹ Lowest bid.

Abstract of proposals for furnishing and delivering 30,000 barrels American Portland cement at Sandy Hook, N. J., opened by Col. Frederic V. Abbot, Corps of Engineers, at New York, N. Y., Mar. 12, 1917.

Name and address of bidder.	Trade name and mill.	Price delivered—	
		Alongside engineer wharf, Sandy Hook, N. J. (per barrel).	F. o. b. cars at Highland Beach, N. J. (per barrel).
1. Alpha Portland Cement Co., Easton, Pa.	Alpha Portland; mills, Martins Creek, Pa., or Alsen, N. Y.	\$2.10	\$2.10
2. Coplay Cement Manufacturing Co., Philadelphia, Pa.	Saylor's Portland; mill, Coplay, Lehigh County, Pa.	2.23	2.23
3. Pennsylvania Cement Co., New York, N. Y. ¹	Pennsylvania Portland; mill, Bath, Pa.	2.10	2.10
4. The Breslin Co. (Inc.), Brooklyn, N. Y.	Knickerbocker Portland; mill, Hudson, N. Y.	2.27	2.27
5. The Atlas Portland Cement Co., New York, N. Y.	Atlas Portland; mills, Hudson, N. Y., or Northampton, Pa.	2.13	2.13
6. Edison Portland Cement Co., New York, N. Y.	Edison Portland; mill, New Village, N. J.	2.23	2.13

Name and address of bidder.	Rebate for each empty sack returned in—		Net price per barrel.		Total for 30,000 barrels.
	Serviceable condition.	Repairable condition.	Delivery at engineer wharf.	Delivery at Highland Beach.	
	<i>Cents.</i>	<i>Cents.</i>			
1. Alpha Portland Cement Co., Easton, Pa.	10	10	\$1.70	\$1.70	\$51,000
2. Coplay Cement Manufacturing Co., Philadelphia, Pa.	10	10	1.83	1.83	54,900
3. Pennsylvania Cement Co., New York, N. Y. ¹	10	10	1.70	1.70	51,000
4. The Breslin Co. (Inc.), Brooklyn, N. Y.	10	.....	1.87	.....	56,100
5. The Atlas Portland Cement Co., New York, N. Y.	10	10	1.73	1.73	51,900
6. Edison Portland Cement Co., New York, N. Y.	10	10	1.83	1.73	54,900

¹ Lowest bid.

Abstract of proposals for furnishing steel reinforcing bars for Sandy Hook, N. J., opened by Col. Frederic V. Abbot, Corps of Engineers, Mar. 20, 1917.

Name and address of bidder.	Price bid for lot (about 450 tons).	Kind and make of bars.	Delivery to be made at—
1. Concrete Steel Co., New York, N. Y.	\$33,619.07	Havemeyer deformed bars, rolled by Carnegie Steel Co.	F. o. b. cars Highland Beach, N. J., station C. R. R. of N. J.
2. Lackawanna Steel Co., Lackawanna, N. Y.	¹ 22,243.24	Gabriel avoid deformed bars, rolled by Lackawanna Steel Co.	F. o. b. cars at works, Lackawanna, Erie County, N. Y.
3. Witherow Steel Co., New York, N. Y.	² 3.74	Cold twisted bars, rolled by Jones & Laughlin Steel Co.	F. o. b. cars, Highland Beach N. J.
4. Jones & Laughlin Steel Co., Pittsburgh, Pa.	34,800.00	.....do.....	Do.
5. Bethlehem Steel Co., South Bethlehem, Pa.	32,895.65	Hot twisted bars, rolled by Bethlehem Steel Co.	At Sandy Hook, N. J.
6. Buffalo Steel Co., New York, N. Y.	33,752.46	Deformed or hot twisted rails, rolled by Buffalo Steel Co..	F. o. b. cars Sandy Hook, N. J.

¹ Lowest bid.² About \$2.47 per 100 pounds.³ Per 100 pounds.

Abstract of proposals for furnishing 1 railway mount for 7-inch siege howitzer received and opened at 12 m., noon, Apr. 9, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract.]

Name and address of bidder.	Amount of bid.	Where delivered.	Time.
1. Otis Elevator Co., New York, N. Y. ¹	\$4,910	Buffalo, N. Y.....	60 working days.

¹ Bid accepted.

Abstract of proposals for furnishing 5 railway mounts for 3-inch field guns, received and opened at 12 m., noon, June 1, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

Name and address of bidder.	Amount of bid.	Where delivered.	Time.
1. Fitchburg Steam Engine Co., Fitchburg, Mass.	\$8,000	F. o. b. Fitchburg, Mass.	122 calendar days.
2. Otis Elevator Co., New York, N. Y. ¹	\$7,500	F. o. b. Buffalo, N. Y....	90 working days.

¹ Lowest bid.

RIVERS AND HARBORS.

Abstract of bids for furnishing and operating a lighter or small steamer for removing drift in New York Harbor, and tributary waters, received in response to public notice, and opened at 12 o'clock noon on Nov. 20, 1916, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract.]

Name and address of bidder.	Name of boat.	Price per day	Total amount of bid.	Length of boat.	Draft, light.	Speed, light, per hour.	Lifting capacity.
				Ft. in.	Feet.	Statute miles.	Ton.
1. Ernest Rudolph, Brooklyn, N. Y. ¹	Osceola	\$60.50	4½ months×20 days per month=90 days; \$60.50×90 days=\$5,445.	64 4	7	12	1

¹ Bid accepted.

Abstract of proposals for furnishing and operating a power boat for use on inspection of of fish traps in the waters of and adjacent to eastern Long Island, received in response to circular proposal and opened at 12 m. Feb. 16, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

Name and address of bidder.	Rate per month.	Description of boat.
1. Le Roy S. Reeve, Mattituck, N. Y.	\$270	31½ feet long; 9½ feet beam; 2½ feet draft; 10-14 horsepower; speed, 8½ miles per hour.
2. John D. Myers & Co., Nw York City.	1,172	35 feet long; 13½ feet beam; 3 feet draft; 18-20 horsepower; speed, 6½ miles per hour.
3. I. Newton Layman, Greenport, N. Y.	275	30 feet long; 10 feet beam; 2½ feet draft; 30 horsepower; speed, 10 knots per hour.
4. Queens Boat Co., Brooklyn, N. Y.	223	30 feet long; 7 feet beam; 2½ feet draft; 15-20 horsepower; speed, 9-10 miles per hour.
5. Joseph W. Wheel, Brooklyn, N. Y.	1 190	27 feet long; 7½ feet beam; 2½ feet draft; 10 horse power; speed, 8 miles per hour.
6. J. W. Ketcham, Greenport, N. Y.	275	26 feet long; 7½ feet beam; 2½ feet draft; 10 horsepower; speed, 8 miles per hour.
7. Montauk Fish Supply Co. (Inc.), Montauk Long Island, N. Y.	265	26 feet long; 9 feet beam; 34 to 36 inch draft; 10 horsepower; speed, 7 miles per hour.
	300	28 feet long; 9 feet beam; 3 feet draft; 15 horse power; speed, 8 miles per hour.

¹ Lowest bid.

Abstract of proposals for furnishing and operating a steam lighter for removing drift in New York Harbor and tributary waters received and opened Apr. 20, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract.]

Name and address of bidder.	Name of boat.	Price per day.	Length of boat.	Light draft.	Speed.	Hoist with single whip.
1. Sidnam Lighterage & Transportation Co., New York, N. Y.	Sid.....	\$65.00	Feet. 85	6.0	Miles. 10	Tons. 1½
2. Frank S. Terry, New York, N. Y.	Kismet (gasoline).	45.00	160	6.0	10	¼
3. John D. Myers & Co., New York, N. Y. ..	Hattie Thomas....	96.00	87	6.6	8	½
4. Henry T. H. Feith, Brooklyn, N. Y.	Osceola	50.00	64	6.0	9	½
5. Alfred W. Spiesman, Borough of Queens, New York, N. Y.	Hungarian (gasoline).	78.50	² 70	3.0	8	1
6. ³ Walter J. Clyde, New York, N. Y.	Miami.....	54.00	82.7	4.8	10	2

¹ 47 feet proposed.

² 56 feet proposed.

³ Bid accepted.

WRECKS.

Abstract of proposals for removal of wreck of sloop "Alice" from Orowoc (Doxsees) Creek, Islip, N. Y., received in response to circular proposal and opened at 12 o'clock noon, Aug. 7, 1916, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract dated Aug. 14, 1916.]

Name and address of bidder.	Amount of bid.	Proposed method of removal.	Proposed manner of final disposal.
1. The McClellan Dredging Co., Brooklyn, N. Y.	¹ \$400	Not given.....	To be taken away and destroyed.
2. Both & Weston, Lawrence, Long Island, N. Y.	² 1,500	Raising.....	Taking it away.
3. ¹ Paul F. Meissner, Brooklyn, N. Y.	¹ 294	Raising without blasting....	On private property above high water.

¹ Less \$1 for wreck.

² Less \$2 for wreck.

³ Lowest bid.

Abstract of proposals for removal of wreck of fishing smack from Bay Ridge Flats, New York Harbor, received in response to circular proposal, and opened at 12 o'clock, noon⁴ Feb. 26, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract dated Mar. 17, 1917.]

Name and address of bidder.	Amount of bid.	Time required for removal.
		<i>Days.</i>
1. Merritt & Chapman Derrick & Wrecking Co., New York, N. Y.....	1 \$890	10
2. ² Alfred Sorensen, West New Brighton, N. Y.....	³ 485	6
3. Baxter Wrecking Co., New York, N. Y.....	⁴ 643	10
4. Hudson River Lighterage Co., New York, N. Y.....	1,100	5

¹ Less \$1 for wreck.

² Lowest bid.

³ Less \$11 for wreck.

⁴ Less \$2 for wreck.

Abstract of proposals for removal of two wrecks in Henry Street Basin, received in response to circular proposal, and opened at 12 o'clock, noon, Apr. 23, 1917, by Col. Frederic V. Abbot, Corps of Engineers.

[Emergency contract.]

Name and address of bidder.	Amount of bid.	Allowance for wreck.	Method of removal and disposal.
1. William Beard & Co. (Inc.), New York, N. Y.	\$2,000	.....	By dredge and take to sea.
2. ¹ Charles W. Johnston, Lewes, Del.....	694	\$1.00	Pumping out and floating and placing ashore.
3. Alfred Sorensen, West New Brighton, N. Y.	1,450	1.50	Break up and placing ashore.
4. Merritt & Chapman Derrick & Wrecking Co., New York, N. Y.	1,499	2.00	Remove intact and place on private property.
5. Hudson River Lighterage Co., New York, N. Y.	701	1.00	Remove by derrick and place on private property.
6. Baxter Wrecking Co., New York, N. Y.	1,900	2.00	Wrecking pontoons and barges and placing ashore.

¹ Bid accepted.

NEW YORK (N. Y.), THIRD DISTRICT.

[Officer: Brig. Gen. W. T. Rossell, U. S. Army, Retired.]

FORTIFICATIONS.

Abstract of open-market bids for the construction of timber groins and repair of sea wall near the southern boundary of the Sandy Hook Reservation, N. J., based on specifications issued on Dec. 13, 1916.

PROPOSAL A.

[Materials furnished at site.]

Name and address of bidder.	Articles.	Quantity required.	Bid per unit.	Estimated cost of 14 groins.
1. F. R. Long-W. G. Broadhurst Co., Hackensack, N. J.	Piles, 32 feet long (chestnut).....	504 piles.....	(1)	.....
	Piles, 32 feet long, creosoted yellow pine	504 piles.....	19.35	\$9,752.40
	Standard galvanized W. I. bolts, square nut:			
	1½ by 48 inches.....	1,049 pounds.....	.127	133.22
	1½ by 40 inches.....	10,053 pounds.....	.127	1,276.73
	1½ by 33 inches.....	568 pounds.....	.127	72.14
	1½ by 30 inches.....	5,242 pounds.....	.127	665.73
	Standard galvanized cast-iron washers, 5 inch diameter.....	6,888 pounds.....	.127	874.78
	Standard galvanized dock spikes, ¾ by 6 inches.....	1,610 pounds.....	.127	204.47
	Wales, creosoted yellow pine, 4 by 10 inches.....	16,100 feet b. m.....	91.25	1,469.13
	Sheathing planks, creosoted yellow pine, 24 feet by 12 inches by 3 inches.....	151,200 feet b. m.....	91.25	13,797.00
	Riprap stone.....	4,000 long tons.....	3.65	14,600.00
	Total cost.....			42,845.60

¹ No bid.

Abstract of open-market bids for the construction of timber groins and repairs of sea wall near the southern boundary of the Sandy Hook Reservation, N. J., based on specifications issued on Dec. 13, 1916—Continued.

PROPOSAL A—Continued.

Name and address of bidder.	Articles.	Quantity required.	Bid per unit.	Estimated cost of 14 groins.
2. A. M. Hazell (Inc.), New York City.	Piles, 32 feet long (chestnut).....	504 piles.....	¹ \$18.00	\$9,072.00
	Piles, 32 feet long, creosoted yellow pine.	504 piles.....	23.00	11,592.00
	Standard galvanized W. I. bolts, square nut:			
	1½ by 48 inches.....	1,049 pounds.....	.10	104.90
	1½ by 40 inches.....	10,053 pounds.....	.10	1,005.30
	1½ by 33 inches.....	568 pounds.....	.10	56.80
	1½ by 30 inches.....	5,242 pounds.....	.10	524.20
	Standard galvanized cast-iron washers, 5 inch diameter.	6,888 pounds.....	.10	688.80
	Standard galvanized dock spikes, ¾ by 6 inches.	1,610 pounds.....	.10	161.00
	Wales, creosoted yellow pine, 4 by 10 inches.	16,100 feet b. m....	95.00	1,529.50
	Sheathing planks, creosoted yellow pine, 24 feet by 12 inches by 3 inches.	151,200 feet b. m....	95.00	14,364.00
	Riprap stone.....	4,000 long tons.....	2.50	10,000.00
		Total cost using chestnut piles.....		37,506.50
		Total cost using creosoted piles.....		40,026.50
	3. Jarrett-Chambers Co. (Inc.), New York City.	Piles, 32 feet long (chestnut).....	504 piles.....	(²)
Piles, 32 feet long, creosoted yellow pine.		do.....	15.00	7,560.00
Standard galvanized W. I. bolts, square nut:				
1½ by 48 inches.....		1,049 pounds.....	.07	73.43
1½ by 40 inches.....		10,053 pounds.....	.07	703.71
1½ by 33 inches.....		568 pounds.....	.07	39.76
1½ by 30 inches.....		5,242 pounds.....	.07	366.94
Standard galvanized cast-iron washers, 5 inches diameter.		6,888 pounds.....	.07	482.61
Standard galvanized dock spikes, ¾ by 6 inches.		1,610 pounds.....	.07	112.70
Wales, creosoted yellow pine, 4 by 10 inches.		16,100 feet b. m....	65.00	1,046.50
Sheathing planks, creosoted yellow pine, 24 feet by 12 inches by 3 inches.		151,200 feet b. m....	65.00	9,828.00
Riprap stone.....		4,000 long tons.....	2.00	8,000.00
		Total.....		28,213.20

¹ No bid.

² Does not guarantee chestnut piles.

PROPOSAL B.

[To furnish all the necessary plant, tools, machinery, and appliances for the expeditious handling and completion of the work described in these specifications and to hire and superintend the necessary working force (actual labor cost as per paragraph 17 of the specifications to be paid by the United States) for the sum of:]

Name and address of bidder.	Price bid.	Total cost of labor assumed at—
1. F. R. Long-W. G. Broadhurst Co., Hackensack, N. J.....	\$2,000.00	\$22,000.00
2. A. M. Hazell Co., New York City.....	10,000.00	22,000.00
3. Jarrett-Chambers Co. (Inc.), New York City.....	16,450.00	22,000.00

Abstract of open-market bids for the construction of timber groins and repairs of sea wall near the southern boundary of the Sandy Hook Reservation, N. J., based on specifications issued on Dec. 13, 1916—Continued.

PROPOSAL C.

[Time of beginning and completion. Allowance for difference in time of completion, in canvassing bids, will be made at the rate of \$25 per day as per paragraph 39 of specifications.]

Name and address of bidder.	Time of beginning.	Time of completion.	Time to complete work.	Amount to be added to bid for difference in time of completion.
1. F. R. Long-W. G. Broadhurst Co., Hackensack, N. J.	Apr. 10, 1917	Aug. 30, 1917	120 working days..	5 working days, or \$125.
2. A. M. Hazell (Inc.), New York City.	Mar. 15, 1917	Jan. 15, 1918	10 months.....	119 working days, or \$2,975.
3. Jarrett-Chambers Co. (Inc.), New York City.	Mar. 10, 1917	Aug. 24, 1917	150 working days..	

SUMMARY OF PROPOSALS.

Name and address of bidder.	Total of proposal A.	Total of proposal B.	Assumed total cost of labor.	Total of proposal C.	Grand total of bid.
1. F. R. Long-W. G. Broadhurst Co., Hackensack, N. J.....	\$42,845.60	\$2,000.00	\$22,000.00	\$125.00	\$66,970.60
2. A. M. Hazell (Inc.), New York City.....	137,506.50	10,000.00	22,000.00	2,975.00	172,481.50
3. Jarrett-Chambers Co. (Inc.), New York City.....	240,026.50	10,000.00	22,000.00	2,975.00	275,001.50
	28,213.20	16,450.00	22,000.00	.....	66,663.20

¹ Total cost using chestnut piles.

² Total cost using creosoted piles.

Awarded to No. 3.

RIVERS AND HARBORS.

Abstract of bids for making borings by washing and drilling in and near upper Passaic River, N. J., received in response to advertisement and opened at 12 m., July 17, 1916, New York City.

Name and address of bidder.	Class (a).		Class (b).		Class (c).		Class (d).		Total.
	Price per foot.	Cost of 177 feet.	Price per foot.	Cost of 17 feet.	Price per foot.	Cost of 44 feet.	Price per foot.	Cost of 12 feet.	
1. P. H. & J. Conlan, Newark, N. J.....	\$1.00	\$177.00	\$2.50	\$42.00	\$2.00	\$88.00	\$5.00	\$60.00	\$367.50
2. Giles & Clark, New York City.....	3.00	531.00	4.50	76.50	3.00	132.00	4.50	54.00	793.50

Awarded to No. 1.

Class (a). Price per linear foot of depth for wash borings located at or above mean low-water mark, from the surface of the ground to the surface of the underlying rock.

Class (b). Price per linear foot of depth for boring into rock where required, boring located at or above mean low-water mark.

Class (c). Price per linear foot of depth for wash borings, under water, from the bed of the river to the surface of the underlying rock.

Class (d). Price per linear foot of depth for boring into rock where required, boring located under water.

Abstract of bids for dredging in Passaic River, N. J., received in response to advertisement and opened in New York City at 10 a. m., Feb. 23, 1917, by H. Pedlar, chief clerk, in absence of Lieut. Col. C. H. McKinstry, Corps of Engineers.

Name and address of bidder.	Price bid per cubic yard, scow measurement.
1. Great Lakes Dredge & Dock Co., New York City.....	Cents. 40

Bid accepted.

Abstract of bids for dredging in Shrewsbury River, Shoal Harbor, and Compton Creek, Keyport Harbor, Raritan, and South Rivers, N. J., received in response to advertisement and opened in New York City at 10 a. m., Apr. 28, 1917, by Brig. Gen. William T. Rossell, United States Army, retired.

Name and address of bidder.	Price bid per cubic yard, scow measurement.
	Cents.
1. Wilfred E. Potter, Jersey City, N. J.	1 93

Bid rejected.

¹ This bid is for dredging in Raritan River only.

Abstract of bids for dredging and removal of rock and bowlders in Staten Island Sound, N. Y. and N. J., received in response to advertisement and opened in New York City at 10 a. m., May 8, 1917, by Brig. Gen. William T. Rossell, United States Army, retired.

Name and address of bidder.	Price bid per cubic yard, place measurement.
1. Eugene Breymann, Boston, Mass.	\$4. 38 $\frac{1}{2}$

Bid rejected.

Abstract of bids for dredging in Passaic River, N. J., received in response to advertisement and opened at 10 a. m. June 23, 1917, in New York City, by Brig. Gen. William T. Rossell, U. S. Army, retired.

Name and address of bidder.	Price bid per cubic yard, scow measurement.
	Cents.
1. Eugene Breymann, New York City.	42 $\frac{1}{2}$
2. Great Lakes Dredge & Dock Co., New York City.	39

Bids rejected.

WRECKS.

Abstract of bids for the removal of the sunken and partially wrecked barge "Esthur A. Tucker" from Raritan River, N. J., received in response to advertisement dated Aug. 30, 1916, and opened 10 a. m. Sept. 9, 1916, in New York City, by Lieut. Col. C. H. McKinstry, Corps of Engineers.

Name and address of bidder.	Price bid.
1. John D. Meyers & Co., New York City.	\$2, 793
2. Merritt & Chapman Derrick & Wrecking Co., New York City.	1, 969
3. Baxter Wrecking Co., New York City.	1, 690

Awarded to No. 3.

Abstract of bids for removing sunken lighterage barge "Mystery" from Passaic River, N. J., received in response to advertisement and opened at 12 m. June 22, 1917, in New York City, by Brig. Gen. William T. Rossell, U. S. Army, retired.

Name and address of bidder.	Amount.
1. Alfred Sorensen, New Brighton, N. Y.	\$999
2. Baxter Wrecking Co., New York City.	942
3. Hudson River Lighterage Co., New York City.	650
4. Passaic River Lighterage Co., Kearny, N. J.	750

Awarded to No. 3.

PHILADELPHIA (PA.) DISTRICT.

[Officer: Maj. J. C. Oakes, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Delaware River, on Mifflin and connecting ranges, and opened on July 14, 1916, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa. and N. J." (Philadelphia, Pa., to the sea).]

Name and address of bidder.	Approximate quantity of material—290,000 cubic yards, scow measurement.	
	Unit price.	Amount.
1. Coastwise Dredging Co., Norfolk, Va.....	\$0.19	\$55,100.00
2. Maryland Dredging & Contracting Co., Baltimore, Md.....	.162	1 46,980.00
3. Bowers Southern Dredging Co., Galveston, Tex.....	.18	52,200.00
4. Eugene Breymann, Boston, Mass.....	.16 $\frac{7}{8}$	48,937.50
5. American Dredging Co., Philadelphia, Pa.....	.175	50,750.00

¹ Accepted.

Abstract of proposals for dredging in Delaware River, above Philadelphia, Pa., and opened on Nov. 2, 1916, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa. and N. J." (Allegheny Avenue, Philadelphia, Pa., to Trenton, N. J.).]

Name and address of bidder.	Section A.		Section B.	
	Approximate quantity of material—25,500 cubic yards, place measurement.		Approximate quantity of material—30,500 cubic yards, place measurement.	
	Unit price.	Amount.	Unit price.	Amount.
1. River & Harbor Improvement Co., Philadelphia, Pa.....	\$0.49	\$12,495.00	\$0.46	\$14,030.00
2. The Rickards Dredging Co., Philadelphia, Pa.....	.32	8,160.00	.285	8,692.50
3. Canal Construction Co., New York, N. Y.....	.47	11,985.00		

ALTERNATE PROPOSALS.

[Sections A and B combined.]

Name and address of bidder.	Section A.		Section B.		Total.
	Unit price.	Amount.	Unit price.	Amount.	
1. River & Harbor Improvement Co., Philadelphia, Pa.....	\$0.45	\$11,475.00	\$0.45	\$13,725.00	\$25,200.00
2. The Rickards Dredging Co., Philadelphia, Pa....	.32	8,160.00	.285	8,692.00	1 16,852.50
3. Canal Construction Co., New York, N. Y.....					

¹ Accepted.

Abstract of proposals for dredging in Delaware River, on Deep Water Point, New Castle, Reedy Island lighthouse ranges, opened on Nov. 9, 1916, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa. and N. J." (Philadelphia, Pa., to the sea).]

Name and address of bidder.	Section K.		Section L.		Section M.	
	Approximate quantity of material—2,553,000 cubic yards scow measurement.		Approximate quantity of material—2,020,000 cubic yards scow measurement.		Approximate quantity of material—2,677,000 cubic yards scow measurement.	
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.
1. Maryland Dredging & Contracting Co., Baltimore, Md.....						
2. Coastwise Dredging Co., Norfolk, Va...	\$0.11	\$280,830.00				
3. American Dredging Co., Philadelphia, Pa.....	.102	260,406.00				

ALTERNATE PROPOSALS.

Name and address of bidder.	Sections K and M combined.		Sections L and M combined.		Sections K, L, and M combined.	
	Approximate quantity of material—5,230,000 cubic yards scow measurement.		Approximate quantity of material—4,697,000 cubic yards scow measurement.		Approximate quantity of material—7,250,000 cubic yards scow measurement.	
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.
1. Maryland Dredging & Contracting Co., Baltimore, Md.....					\$0.105	\$761,250.00
2. Coastwise Dredging Co., Norfolk, Va.....						
3. American Dredging Co., Philadelphia, Pa.....			\$0.102	\$479,094.00	.099	¹ 717,750.00

¹ Accepted.

Abstract of proposals for dredging and rock excavation in Delaware River, in Philadelphia Harbor, opened on Nov. 9, 1916, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa. and N. J." (general improvement).]

Name and address of bidder.	Dredging.		Rock removal.		Total.
	Approximate quantity of material—520,000 cubic yards place measurement.		Approximate quantity of material—65,000 cubic yards place measurement.		
	Unit price.	Amount.	Unit price.	Amount.	
1. Eugene Breymann, Toledo, Ohio.....	\$0.65	\$338,000	\$8.25	\$536,250	\$874,250
2. Canal Construction Co. (Inc.), New York, N. Y.	.68	353,600	11.60	754,000	1,107,600
3. Bowers Southern Dredging Co., Galveston, Tex.	.65	338,000	6.90	448,500	786,500
4. Great Lakes Dredge & Dock Co., New York, N. Y.....	.40	208,000	8.50	552,500	¹ 760,500
5. Maryland Dredging & Contracting Co., Baltimore, Md.....	.56	291,200	7.70	500,500	791,700

¹ Accepted.

Abstract of proposals for constructing and delivering two wooden scows, opened Nov. 21, 1916, by Maj. J. C. Oakes, Corps of Engineers.

Appropriation: "Maintenance and improvement of existing river and harbor works" (Delaware River from Philadelphia, Pa., to the sea.)]

Name and address of bidder.	Two wooden scows, complete.	Time of delivery.	Remarks.
1. Valk & Murdoch Co., Charleston, S. C.	\$10,300	Within four months after date fixed for commencement.	Delivery of scows to be made at yard of bidder, Charleston, S. C.
2. John H. Mathis Co., Camden, N. J.	¹ 10,980	.....do.....	Delivery of scows to be made at yard of bidder, Camden, N. J.

¹ Accepted.

Abstract of proposals for constructing and delivering four steel barges, opened Dec. 21, 1916, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Maintenance and improvement of existing river and harbor works" (Delaware River from Philadelphia, Pa., to the sea.)]

Name and address of bidder.	Unit price.	Total.	Time of delivery.
1. American Bridge Co., Pittsburgh, Pa.	\$11,000	¹ \$44,000	Within eight months after date fixed for commencement.
2. Valk & Murdoch Co., Charleston, S. C. ...	17,164	68,656	Within nine months after date fixed for commencement.

¹ Accepted.

Abstract of proposals for dredging and rock excavation on Tinicum, Chester, and Marcus Hook ranges, Delaware River, opened Jan. 15, 1917, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa., N. J., and Del." (Philadelphia, Pa., to the sea.)]

Name and address of bidder.	Upper area (Tinicum range).				Lower area (Chester and Marcus Hook ranges.)				Total.
	Dredging.		Rock excavation.		Dredging.		Rock excavation.		
	Approximate quantity of material—970 cubic yards place measurement.		Approximate quantity of material—1,130 cubic yards place measurement.		Approximate quantity of material—9,300 cubic yards place measurement.		Approximate quantity of material—2,700 cubic yards place measurement.		
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	
1. Bowers Southern Dredging Co., Galveston, Tex.	\$0.60	\$582.00	\$15.45	\$17,458.50	\$0.60	\$5,580.00	\$15.45	\$41,715.00	\$65,335.50
2. Maryland Dredging & Contracting Co., Baltimore, Md. ....	.60	582.00	14.95	16,893.50	.60	5,580.00	14.95	40,365.00	¹ 63,420.50
3. Great Lakes Dredge & Dock Co., New York, N. Y. ....	.61	591.70	15.75	17,797.50	.61	5,673.00	15.75	42,525.00	66,587.20
4. Canal Construction Co. (Inc.), New York, N. Y.	.67	649.90	17.40	19,662.00	.67	6,231.00	17.40	46,980.00	73,522.90

¹ Accepted.

Abstract of proposals for constructing a storehouse at Fort Mifflin, Pa., opened on Feb. 5, 1917, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa., N. J., and Del." (Philadelphia, Pa., to the sea).]

Name and address of bidder.	Price.	Remarks.
1. McCloskey & Bahls, Philadelphia, Pa.	{ \$32,144 1 31,144 35,985 38,870 36,927 33,571 31,887 2 31,065	Reinforcement.—If Truss-Con bars are used in place of those specified deduct \$1,000.
2. Frank G. Stewart, Philadelphia, Pa.		
3. Penn Bridge Co., Washington, D. C.		
4. Harry E. Baton, Philadelphia, Pa.		
5. Monaghan & Losse (Inc.), Philadelphia, Pa.		
6. Edward Fay & Son, Philadelphia, Pa.		

¹ Based on substitution of Truss-Con bars for those specified.

² Subsequent to opening proposals, this bidder has offered to reduce his price \$822 if Truss-Con bars can be substituted for those specified.

³ Accepted.

Abstract of proposals for repairing Government wharf at Fort Mifflin, Pa., opened on Feb. 15, 1917, by Maj. J. C. Oakes, Corps of Engineers.

[Appropriation: "Delaware River, Pa., N. J., and Del." (Philadelphia, Pa., to the sea).]

Item.	Approximate quantities.	1. Delaware Dredging Co., Philadelphia, Pa.		2. Franklin Construction Co. (Inc.), Philadelphia, Pa.	
		Unit price.	Amount.	Unit price.	Amount.
Bearing piles, per linear foot, in place.....	13,200 linear feet...	\$0.57	\$7,524	\$0.48	\$6,336
Spur piles, per linear foot, in place.....	3,000 linear feet....	.71	2,130	.55	1,650
Fender piles, per linear foot, in place.....	2,600 linear feet....	.71	1,846	.48	1,248
Framing timber, per M feet b. m., in place....	20,000 feet b. m....	165.00	3,300	76.00	1,520
Decking, per M feet b. m., in place.....	23,000 feet b. m....	150.00	3,450	76.00	1,748
Oak fenders and chocks, per M feet b. m., in place.	3,000 feet b. m....	190.00	570	100.00	300
Concrete, per cubic yard, in place.....	600 cubic yards....	24.00	14,400	11.00	6,600
Mooring posts, each, in place.....	5.....	84.00	420	50.00	250
6-inch C. I. drains, including stone, each, in place.	9.....	45.00	405	15.00	135
Iron, including bolts, washers, etc., per pound, in place.	10,000 pounds.....	.18	1,800	.07	700
Pile shoes, each.....	100.....	7.00	700	2.00	200
Total.....			36,545		1 20,687

¹ Accepted.

BALTIMORE (MD.) DISTRICT.

[Officer: Col. W. L. Fisk, U. S. Army, retired.]

RIVERS AND HARBORS.

Abstract of proposals for groceries and provisions for United States steamer "Sentinel," for the six months beginning July 1, 1917, and ending Dec. 31, 1917, opened at 1 o'clock p. m., June 15, 1917, by Col. W. L. Fisk, U. S. Army, retired, under advertisement dated May 15, 1917.

[Appropriations: All pertaining to the district.]

Name and address of bidder.	Total.
1. Aug. Kuenne, 700 South Broadway, Baltimore, Md.	\$1,738.89

Contract awarded to Aug. Kuenne.

Abstract of proposals for dredging in Elk River, Md., opened 1 p. m., May 4, 1917, by Col. W. L. Fisk, U. S. Army, retired, under advertisement.

[Appropriation: Elk and Little Elk Rivers, Md.]

[Approximate quantity, place measurement, 36,000 cubic yards; originally estimated cost of the work, 20 cents per cubic yard.]

Name and address of bidder.	Price per cubic yard.	Total for the work.
	<i>Cents.</i>	
1. Maryland Dredging & Contracting Co., Baltimore, Md.	29½	\$10,620
2. W. H. French Dredging & Wrecking Co. (Inc.), Norfolk, Va.	25	9,000

Contract awarded to W. H. French Dredging & Wrecking Co. (Inc.).

Abstract of proposals for groceries and provisions for United States steam tender "Sentinel," for the six months beginning Jan. 1, 1917, and ending June 30, 1917, opened at 1 o'clock p. m., Dec. 15, 1916, by Lieut. Col. W. V. Judson, Corps of Engineers, under advertisement dated Nov. 15, 1916.

[Appropriations: All pertaining to the district.]

Name and address of bidder.	Total.
1. Aug. Kuenne, Baltimore, Md.	\$1,480.14

Contract awarded to Aug. Kuenne.

Abstract of proposals for dredging in Susquehanna River, Md., opened at 1 o'clock p. m., July 11, 1916, by Lieut. Col. C. A. F. Flagler, Corps of Engineers, under advertisement.

[Appropriation: Improving Susquehanna River near Havre de Grace, Md.]

Approximate quantity, scow measurement—70,000 cubic yards.

Name and address of bidder.	Price per cubic yard.	Total for the work.
	<i>Cents,</i>	
1. Maryland Dredging & Contracting Co., Baltimore, Md.	17	\$11,900
2. Dorsey & Miller Co., Washington, D. C.	16½	11,375
3. River and Harbor Improvement Co., Philadelphia, Pa.	18 ³ / ₅	12,740

Contract awarded to Dorsey & Miller Co.

WASHINGTON (D. C.) DISTRICT.

[Officer: Col. W. L. Fisk, U. S. Army, retired.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Potomac River at Washington, D. C., and Rappahannock River, Va., opened 12 m., June 14, 1917, by Col. W. L. Fisk, U. S. Army, retired.

[Improving Potomac River at Washington, D. C., and Rappahannock River, Va.]

Name and address of bidder.	Potomac River at Washington, D. C.	Total.	Rappahannock River, Va.	Total.	Grand total.	Dredge.
	<i>Cu. yd.</i>		<i>Cu. yd.</i>			
1. Delaware Dredging Co., Philadelphia, Pa.	\$0.24	\$59,520	\$0.38	\$27,474	\$86,994	Nos. 5-15 hydraulic.
2. Maryland Dredging & Contracting Co., Baltimore, Md.	.19	47,120	.34	24,582	71,702	Potomac.

Bids rejected, as price was too high.

NORFOLK (VA.) DISTRICT.

[Officer: Lieut. Col. J. P. Jervey, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals received in response to written notice No. 2680 and specifications opened at 12 o'clock noon Mar. 19, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering two locomotive cranes f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering two new locomotive cranes.	For furnishing and delivering two secondhand locomotive cranes.	Total cost at price bid.	Estimated cost.
1. John D. Westbrook (Inc.), Norfolk, Va.....	.....	¹ \$10,237.50 ² 9,737.50	\$10,237.50 19,475.00	\$11,000.00 22,000.00
2. The Brown Hoisting Machinery Co., Cleveland, Ohio.....	³ \$22,500.00	.....	22,500.00	22,500.00

¹ For furnishing one locomotive crane. ² Price for each crane. ³ Accepted proposal.

Abstract of proposals received in response to written notice No. 2683, and specifications opened at 12 o'clock noon Mar. 23, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering two clamshell buckets f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering two 1-yard ore-digging buckets.	For furnishing and delivering two 1-yard clamshell digging buckets.	Total cost at price bid.	*Estimated cost.	Remarks.
1. The G. H. Williams Co. Erie, Pa. ¹	.....	\$1,250 ² 1,300 1,500 1,600	\$1,250 1,300 1,500 1,600	\$1,500 1,500 1,500 1,500	"Standard," 2,950 pounds each. "Favorite," 3,250 pounds each. "Standard X," 3,450 pounds each. "Hercules," 3,800-4,000 pounds each.
2. John D. Westbrook (Inc.) Norfolk, Va.	.....	³ 1,050 ³ 1,200	..... 2,250	..... 1,500	"Industrial Works," scraper type.
3. Industria, Works, Bay City, Mich.	.....	2,200	2,200	1,500	
4. The Hayward Co., New York, N. Y. ¹	\$2,160	1,730	2,160 1,730	1,500 1,500	
5. The Brown Hoisting Machinery Co., Cleveland, Ohio.	2,570	.....	2,570	1,500	

¹ Certified check furnished in place of guaranty. ² Accepted proposal. ³ For one bucket, secondhand.

Abstract of proposals received in response to written notice No. 2691, and specifications opened at 12 o'clock noon, Mar. 24, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering relaying rail, etc., f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering 276 tons relaying rail.	Total cost at price bid.	Estimated cost.						
1. John D. Westbrook (Inc.), Norfolk, Va.....	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Per ton.</td> <td rowspan="3" style="font-size: 3em; vertical-align: middle;">}</td> <td rowspan="3" style="vertical-align: middle;">\$12,080.52</td> <td rowspan="3" style="vertical-align: middle;">\$12,420.00</td> </tr> <tr> <td style="text-align: center;">¹\$43.77</td> </tr> <tr> <td style="text-align: center;">²34.37 ³35.52</td> </tr> </table>	Per ton.	}	\$12,080.52	\$12,420.00	¹ \$43.77	² 34.37 ³ 35.52		
Per ton.	}	\$12,080.52				\$12,420.00			
¹ \$43.77									
² 34.37 ³ 35.52									

¹ Accepted proposal.
² Alternative proposal for furnishing an indefinite quantity of rail.
³ Alternative proposition furnishing an indefinite quantity of rail; 150 to 200 tons.

Abstract of proposals received in response to written notice No. 2738, and specifications opened at 12 o'clock noon, May 7, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering lathe, shaper, etc., f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering one gap bed engine lathe.	Estimated cost.	For furnishing and delivering one shaper.	Estimated cost.	For furnishing and delivering one pipe machine.	Estimated cost.
1. Southern Supply Co., Norfolk, Va.	\$1,564.00	\$1,300.00	¹ \$870.00	\$800.00	¹ \$330.00	\$350.00
2. Manning, Maxwell & Moore (Inc.), Philadelphia, Pa. ²	2,673.00	1,300.00	937.00	800.00	324.00	350.00
3. Smith-Courtney Co., Richmond, Va. ³	¹ 1,375.00	1,300.00	999.00	800.00	340.30	350.00
4. Niles-Bement-Pond Co., New York, N. Y.	2,200.00	1,300.00	885.00	800.00	-----	350.00
5. John D. Westbrook (Inc.), Norfolk, Va.	-----	1,300.00	1,050.00	800.00	{ 675.00 631.00	{ 350.00 350.00

Name and address of bidder.	For furnishing and delivering one bolt machine.	Estimated cost.	For furnishing and delivering one radial drill press. ¹	Estimated cost.	For furnishing and delivering one sensitive drill press.	Estimated cost.
1. Southern Supply Co., Norfolk, Va.	¹ \$315.00	\$275.00	-----	\$1,225.00	¹ \$147.00	\$200.00
2. Manning, Maxwell & Moore (Inc.), Philadelphia, Pa. ²	545.00	275.00	\$2,080.00	1,225.00	70.00	200.00
3. Smith-Courtney Co., Richmond, Va. ³	532.60	275.00	2,070.00	1,225.00	250.00	200.00
4. Niles-Bement-Pond Co., New York, N. Y.	-----	275.00	1,695.00	1,225.00	224.00	200.00
5. John D. Westbrook (Inc.), Norfolk, Va.	{ ⁴ 225.00 ⁵ 321.00	275.00	-----	1,225.00	75.00	200.00

¹ Accepted proposals.

² No guarantee with proposal.

³ Certified check in place of guarantee.

⁴ All proposals rejected on this lot.

⁵ Not in accordance with the specifications.

Abstract of proposals received in response to written notice No. 2749 and specifications, opened at 12 o'clock noon, May 7, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering band saw, planer, etc., f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering 1 band saw machine.	Estimated cost.	For furnishing and delivering 1 wood planer matcher and molder.	Estimated cost.	For furnishing and delivering 1 mortising machine.	Estimated cost.
1. John D. Westbrook (Inc.), Norfolk, Va.	\$245.00 280.00 200.00 180.00 197.50	\$150.00 150.00 150.00 150.00 150.00	\$1,115.00 ¹ 425.00 1,100.00	\$400.00 400.00 400.00	\$305.00 ¹ 197.50 315.00	\$275.00 275.00 275.00
2. Southern Supply Co., Norfolk, Va.	² 130.00	150.00	² 450.00	400.00	² 288.00	275.00
3. The Potter & Moore Co., Norfolk, Va.	171.40	150.00	-----	400.00	¹ 182.30	275.00
4. H. B. Smith Machine Co., Smithville, N. J.	180.00	150.00	1,186.00	400.00	327.00	275.00
5. Smith-Courtney Co., Richmond, Va.	151.66	150.00	468.75	400.00	289.50	-----

Abstract of proposals received in response to written notice No. 2719 and specifications, opened at 12 o'clock noon, May 7, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering band saw, planer, etc., f. o. b. Cape Henry, Va.—Continued.

Name and address of bidder.	For furnishing and delivering 1 tilting table saw bench.	Estimated cost.	For furnishing and delivering 1 iron-frame saw bench.	Estimated cost.	For furnishing and delivering 1 wood-turning lathe.	Estimated cost.
1. John D. Westbrook (Inc.), Norfolk, Va.	\$280.00 175.00 180.00 260.00 240.00	\$125.00 125.00 125.00 125.00 125.00	\$210.00 127.50	\$90.00 90.00	\$140.00 90.00	\$75.00 75.00
2. Southern Supply Co., Norfolk, Va.	² 150.00	125.00	² 93.00	90.00	² 85.00	75.00
3. The Potter & Moore Co., Norfolk, Va.	187.15	125.00	265.37	90.00	-----	75.00
4. H. B. Smith Machine Co., Smithville, N. J.	217.00	125.00	125.00	90.00	141.00	75.00
5. Smith-Courtney Co., Richmond, Va.	153.13	125.00	97.00	90.00	115.00	75.00

¹ Not in accordance with the specifications.

² Accepted proposals.

Informalities.—Proposal No. 3, check furnished in place of guaranty was not certified; proposal No. 4, no guaranty furnished with proposal.

Abstract of proposals received in response to circular letter dated June 2, 1917, issued by Lieut. Col. J. P. Jervey, Corps of Engineers, United States Engineer office, Norfolk, Va., for furnishing and delivering one locomotive f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering 1 locomotive.	Estimated cost.
1. American Locomotive Co., New York, N. Y.	¹ \$6,725	\$3,500
2. Vulcan Iron Works, Wilkes-Barre, Pa.	7,700	3,500
3. K. K. Porter Co., Pittsburgh, Pa.	8,500	3,500
4. Standard Supply & Equipment Co., Norfolk, Va.	7,710	3,500

¹ Accepted proposal.

Abstract of proposals received in response to written notice No. 2736, and specifications, opened at 12 o'clock noon, May 8, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for furnishing and delivering horizontal engine, boiler, etc., f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing horizontal engine.	Estimated cost.	For furnishing return tubular boiler. ¹	Estimated cost.	For furnishing feed pump. ¹	Estimated cost.	For furnishing feed water. ¹	Estimated cost.
1. Southern Supply Co., Norfolk, Va.	-----	\$700.00	-----	\$1,500.00	\$67.00	\$40.00	\$185.00	\$150.00
2. John D. Westbrook (Inc.), Norfolk, Va.	} \$760.00	700.00	\$2,261.38	1,500.00	60.00	40.00	{ 310.00 190.00	³ 150.00
3. The Potter & Moore Co., Norfolk, Va.									700.00	3,025.00	1,500.00	-----	40.00	-----	150.00

¹ All proposals rejected.

² Accepted proposal.

³ Alternative proposal.

Informalities.—Proposal No. 1; bid was not submitted in duplicate. Proposal No. 3; no guarantee was furnished with this proposal.

Abstract of proposals received in response to oral inquiry of May 9, 1917, of Lieut. Col. J. P. Jervey, Corps of Engineers, United States Engineer office, Norfolk, Va., for furnishing and delivering one return tubular portable boiler, f. o. b. Cape Henry, Va.

Name and address of bidder.	For furnishing and delivering return tubular boiler.	Estimated cost.	Remarks.
1. John D. Westbrook (Inc.), Norfolk, Va.	\$2,271.28 1 2,297.68 2,370.28	\$1,500.00 1,500.00 1,500.00	"Ames," 100 horsepower. "Empire," Ames 80 horsepower. "Ames," 90 horsepower.

¹ Accepted proposal.

Informalities.—The proposal is informal throughout, and was submitted in response to oral inquiry, after advertisement by poster and circular letter had failed to secure satisfactory proposals for furnishing the boiler.

RIVERS AND HARBORS.

Abstract of proposals received in response to advertisement and specifications, opened at 12 o'clock noon, Nov. 14, 1916, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for dredging inland waterway from Norfolk, Va., to Beaufort Inlet, N. C.

FORM NO. 1.

Name and address of bidder.	For work done in connection with scows for the disposal of dredged material.			
	Approximate quantity.	Price bid per cubic yard, scow measurement.	Total cost at price bid.	Estimated cost per cubic yard, scow measurement.
7. Norfolk Dredging Co., Norfolk, Va.	<i>Cu. yds.</i> 500,000	<i>Cents.</i> 31	\$155,000.00	<i>Cents.</i> 18.15

FORM NO. 2.

Name and address of bidder.	For work done by the hydraulic process.				For work done in connection with scows for the disposal of dredged material.			
	Approximate quantity.	Price bid per cubic yard, place measurement.	Total cost at price bid.	Estimated cost per cubic yard, place measurement.	Approximate quantity.	Price bid per cubic yard, scow measurement.	Total cost at price bid.	Estimated cost per cubic yard, scow measurement.
5. Bowers Southern Dredging Co., Galveston, Tex.	<i>Cubic yards.</i> 4,755,000	<i>Cents.</i> 15.6	\$741,780.00	<i>Cents.</i> 12.44	<i>Cu. yds.</i> 500,000	<i>Cents.</i> 25.00	\$125,000	<i>Cents.</i> 18.15
8. Atlantic, Gulf & Pacific Co., New York, N. Y.	4,755,000	¹ 14.75	701,362.50	12.44	500,000	¹ 14.75	73,750	18.15

¹ Acceptance recommended.

Abstract of proposals received in response to advertisement and specifications opened at 12 o'clock noon, Nov. 14, 1916, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States Engineer office, Norfolk, Va., for dredging inland waterway from Norfolk, Va., to Beaufort Inlet, N. C.—Continued.

FORM NO. 3.

Name and address of bidder.	For work done by the hydraulic process.				For work done in connection with scows for the disposal of dredged material.			
	Approximate quantity.	Price bid per cubic yard, place measurement.	Total cost at price bid.	Estimated cost per cubic yard, place measurement.	Approximate quantity.	Price bid per cubic yard, scow measurement.	Total cost at price bid.	Estimated cost per cubic yard, scow measurement.
1. Sanford & Brooke Co., Baltimore, Md.	<i>Cubic yards.</i> 1,130,000	<i>Cents.</i> 14.9	\$168,370	<i>Cents.</i> 11.66				
	1,400,000	10.75	150,500	8.89				
2. Atlas Dredging Co., New York, N. Y.	1,130,000	13.3	150,290	11.66				
	1,905,000	13.3	253,365	11.64				
	1,345,000	13.3	178,885	11.31				
3. P. Sanford Ross (Inc.), Jersey City, N. J.	1,950,000	14.5	282,750	11.30				
4. Maryland Dredging & Contracting Co., Baltimore, Md.	1,400,000	10.75	150,500	8.89	500,000	30	\$150,000	18.15
5. Bowers Southern Dredging Co., Galveston, Tex.	4,195,000	15.4	646,030	12.44				
6. Standard American Dredging Co., Oakland, Cal.	550,000	23.85	131,175	17.42				
	900,000	32.85	295,650	16.60				
8. Atlantic, Gulf & Pacific Co., New York, N. Y.	4,195,000	15.2	637,640	12.44	500,000	15.2	760,000	18.15

Informalities.—Proposal No. 1, date of guarantee antedates proposal; date of proposal omitted in guarantee. Proposal No. 2, the maximum amount of work which bidder is willing to enter into contract for doing is less than the volume of work in all sections included in proposal. Proposal No. 4, the maximum amount of work which bidder is willing to enter into contract for doing is not stated. Proposal No. 5, the maximum amount of work which bidder is willing to enter into contract for doing is not stated; the guarantee refers to the proposal as being dated Nov. 14, 1916, whereas the date of the proposal is Nov. 2, 1916. Proposal No. 6, the maximum amount of work which bidder is willing to enter into contract for doing is not stated; official title of party signing proposal is not given, nor is his authority for signing furnished. Proposal No. 8, words and figures written in Form No. 3 of proposal had been ruled out by bidder before proposal was opened.

Abstract of proposals received in response to advertisement and specifications, opened at 12 o'clock noon, Jan. 29, 1917, by Lieut. Col. J. P. Jervey, Corps of Engineers, at United States engineer office, Norfolk, Va., for dredging in the Southern Branch of the Elizabeth River, Va.

Name and address of bidder.	Approximate quantity, scow measurement.	Price bid per cubic yard, scow measurement.	Total cost at price bid.	Estimated cost.
	<i>Cubic yards.</i>	<i>Cents.</i>		
1. Coastwise Dredging Co., Norfolk, Va.	78,925	¹ 17.44	\$13,764.52	\$13,516.00
2. Norfolk Dredging Co., Norfolk, Va.	78,925	17.70	13,969.73	13,516.00
3. Morris & Cumings Dredging Co., New York, N. Y.	78,925	22.00	17,363.50	13,516.00

¹ Acceptance recommended.

Informality.—Proposal No. 3, the date of the guaranty antedates that of the proposal.

WRECKS.

Abstract of proposals received in response to advertisement for removing wreck of the steel whale-back barge "Irie" from Hampton Roads, Va., opened at 12 o'clock noon, Oct. 28, 1916, at United States engineer office, Norfolk, Va.

Name and address of bidder.	For breaking up the barge by the use of explosives, and raising and disposing of the separate pieces for the sum of.
1. Eugene Boehm, Atlantic City, N. J.	\$6,442.00
2. Charles W. Johnston, Lewes, Del.	12,500.00

¹ Acceptance recommended. ² Also offers to remove the wreck to 45 feet at low water for \$8,500.

WILMINGTON (N. C.) DISTRICT.

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

RIVERS AND HARBORS.

Abstract of proposals for marine engine (Diesel or semi-Diesel type) received in response to the annexed advertisement and publicly opened at this office at 12 o'clock m., Jan. 30, 1917, by Maj. A. E. Waldron, Corps of Engineers, Wilmington, N. C.

[Appropriation for maintenance and improvement of existing river and harbor works: (a) Waterway between Beaufort Harbor and New River, N. C.; (b) waterway between New River and Swansboro, N. C.]

Name and address of bidder.	Make.	Amount.	Remarks.
1. August Mietz, New York, N. Y.	(1)	\$10,000	Informal.
	(2)	11,800	
2. Burnoil Engine Co., South Bend, Ind.	(3)	6,400	

¹ 60 horsepower semi-Diesel, delivered f. o. b. New York.

² 80 horsepower semi-Diesel, delivered f. o. b. New York.

³ 60 horsepower Diesel.

Abstract of proposals for motor dredge tender "Manteo" received in response to the annexed advertisement and publicly opened at this office at 12 o'clock m., Dec. 1, 1916, by Maj. A. E. Waldron, Corps of Engineers, Wilmington, N. C.

[Appropriation for maintenance and improvement of existing river and harbor works: (a) Harbor at Beaufort, N. C.; (b) waterway from Pamlico Sound to Beaufort Inlet, N. C.; (c) waterway between Beaufort Harbor and New River, N. C.]

Name and address of bidder.	Delivered, Newbern, N. C.	Deduct if delivered at bidder's works.	Deduct if without electrical equipment.
1. New York Yacht, Launch & Engine Co., Morris Heights, New York, N. Y.	\$13,975.00	\$350.00	\$1,535.00
2. E. H. & J. A. Meadows Co., Newbern, N. C.	11,270.11	.....	1,000.00
3. Great Lakes Boat Building Corporation, Milwaukee, Wis. ¹	16,239.00	.....	.....
4. Valk & Murdoch Co., Charleston, S. C.	18,000.00	300.00	1,300.00
5. Chas. P. Willard & Co., Winthrop Harbor, Ill.	9,100.00	.....	.....
6. Wilmington Iron Works, Wilmington, N. C.	20,000.00	500.00	.....
7. Chance Marine Construction Co., Annapolis, Md.	13,826.66	262.00	1,434.00

¹ Delivered at Milwaukee, Wis.

CHARLESTON (S. C.) DISTRICT.

[Officer: Maj. G. A. Youngberg, Corps of Engineers.]

RIVERS AND HARBORS (COAL).

Abstract of proposals for delivery of coal at Cayce, Charleston and Georgetown, S. C., received in response to poster and circular letter advertisement dated Mar. 15, 1917, and opened Mar. 27, 1917, by Maj. G. A. Youngberg, Corps of Engineers, Charleston, S. C.

Name and address of bidder.	Guaranteed analysis.					Price bid Cayce. ¹	Price bid Charleston.	Price bid Georgetown. ¹	Commercial name of coal.
	Moisture.	Ash.	Volatile matter.	Sulphur.	British thermal units.				
1. Consumers Coal Co., Charleston, S. C.	<i>Per ct.</i> 2.0	<i>Per ct.</i> 8	<i>Per ct.</i> 34	<i>Per ct.</i> 0.85	14,000	.....	\$5.95	.....	Clinchfield.
2. Wm. Johnson & Co., Charleston, S. C.	1.75	7.04	32.24	.827	14,000	.....	6.25	.....	Stonega.

¹ No bid.

SAVANNAH (GA.) DISTRICT.

[Officer: Col. John Millis, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in Savannah Harbor, Ga., 21-foot channel, received in response to advertisement and specifications, and opened in the United States Engineer office, Savannah, Ga., Feb. 5, 1917, by Col. John Millis, Corps of Engineers.

[Appropriation: Harbor at Savannah, Ga. (21-foot channel).]

Name and address of bidder.	Dredging 320,000 cubic yards.		Removing bowlders—1,000 cubic yards.		Total.	Remarks.
	Rate per yard.	Amount.	Rate per yard.	Amount.		
1. L. T. Gaylord, New York.....	\$0.364	\$116,480	\$5.00	\$5,000	\$121,480	Authority for secretary to sign not shown. Lowest.
2. Globe Dredging Co., Savannah, Ga.	.4575	146,400	5.00	5,000	151,400	
3. Coastwise Dredging Co., Norfolk, Va.	.38	121,600	8.00	8,000	129,600	
4. John Emile, Jacksonville, Fla....	.375	120,000	.75	750	120,750	
5. Maryland Dredging & Contracting Co., Baltimore, Md.	.385	123,200	9.00	9,000	132,200	
6. P. Sanford Ross (Inc.), Jersey City, N. J.	.379	121,280	2.00	2,000	123,280	

¹ No bid.

Abstract of proposals for dredging in Savannah Harbor, Ga., 21-foot channel, received in response to advertisement and specifications, and opened in the United States Engineer office, Savannah, Ga., Apr. 14, 1917, by Col. John Millis, Corps of Engineers.

[Appropriation: Harbor at Savannah, Ga. (21-foot channel).]

Name and address of bidder.	Dredging 320,000 cubic yards.		Removing 1,000 cubic yards bowlders, at \$6 per cubic yard.	Total.
	Rate per yard.	Amount.		
1. Bowers Southern Dredging Co., Galveston, Tex.....	\$0.52	\$166,400	\$6,000	\$172,400
2. Globe Dredging Co., Savannah, Ga.....	.51 ²	165,600	6,000	171,600
3. P. Sanford Ross (Inc.), Jersey City, N. J.....	.497	159,040	6,000	165,040

COAL.

Abstract of bids for furnishing and delivering bituminous coal to United States dredges, etc., received in response to circular letter and opened in the United States Engineer office, Savannah, Ga., at 12 o'clock noon, May 7, 1917.

[Appropriations: Waterway between Savannah, Ga., and Fernandina, Fla.; inland waterway between Savannah, Ga., and Beaufort, S. C.; harbor at Savannah, Ga., and harbor at Darien, Ga.]

Name and address of bidder.	Price per ton.	Brand.
1. Taggart Coal Co., Savannah, Ga.....	\$5.17	Taggart's navigation.

Analysis of coal.—Mines at Blackwood, Wise County, Va.; moisture, 2 per cent; volatile matter, 38 per cent; ash, 8 per cent; B. t. u., 14,000; sulphur, 1 per cent.

JACKSONVILLE (FLA.) DISTRICT.

[Officer: Maj. James F. Bell, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for furnishing deformed bars for concrete reinforcement delivered at Tampa, Fla., received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Sept. 22, 1916.

[Appropriation: Casemates, galleries, etc., for submarine mines (Tampa Bay, Fla.)]

Name and address of bidder.	Three-fourths inch iron bars.			Make.	Remarks.
	Weight.	Rate.	Total.		
1. West Coast Co., Tampa, Fla.	3,443	\$0.038	\$130.83	Havemeyer...	Steel f. o. b. Tampa, Fla.
2. Concrete Steel Co., Birmingham, Ala.	3,443	.0389	133.95	.....
3. Buffalo Steel Co., Tonawanda, N. Y.	3,443	.0311	¹ 107.07	Buffalo.....	
4. Knight & Wall Co., Tampa, Fla.	3,443	.04	137.72	Havemeyer...	

¹ Accepted.

RIVERS AND HARBORS.

Abstract of proposals for furnishing materials and constructing 1 fuel barge for the United States dredge "Barnard," Tampa, Fla., received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., July 10, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Price.	Delivery in—	Remarks.
1. J. L. Hackney, Tampa, Fla.....	\$1,870.50	50 days.....	Lowest bid; has no facilities; could not furnish bond.
2. Tampa Steam Ways Co., Tampa, Fla..	1,938.00	45 days ¹	

¹ Accepted.

Abstract of proposals for furnishing and delivering wire rope at Tampa, Fla., received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., July 14, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Brand.	Two reels, 800 feet each, plow steel, 1-inch, 6-strand, 19 wires.	Two reels, 600 feet each, plow steel, 1-inch, 6-strand, 19 wires.	Total price.	Delivery.	Remarks.
1. Georgia Supply Co., Jacksonville, Fla.	Roeblings.....	\$436.00	\$327.00	\$763.00	Days. 30	
2. Cameron & Barkley Co., Jacksonville, Fla.	Broderick & Bascom.	436.00	327.00	763.00	.....	For immediate shipment from East St. Louis if ordered at once.
3. Macombre & Whyte Co., Chicago, Ill.	Macombre & Whyte.	436.02	327.02	763.04	.....	Ship in 70 days.
4. J. G. Christopher Co., Jacksonville, Fla.	"Hercules" Red Strand.	505.12	378.84	883.96	.....	Ship from St. Louis in 10 days.
5. J. G. Christopher Co., Jacksonville, Fla.	Leschens.....	1 403.20	1 302.40	1 705.60	10	Lowest bid.
6. Jas. A. Roeblings Sons Co., Atlanta, Ga.	Roeblings.....	403.32	302.40	705.72	30	
7. Geo. E. Chase & Co., Jacksonville, Fla.	Hazard.....	404.00	303.00	707.00	.....	Immediate shipment from New York; cartage at Tampa allowed.

¹ Accepted.

Abstract of proposals for furnishing wire rope for the dredge "Mallery," received in response to circular proposal and opened at the United States Engineer office, Jacksonville, Fla., July 29, 1916.

[Appropriation: St. Johns River (general improvement).]

Name and address of bidder.	Four reels, 600 feet each, high-grade plow steel wire hoisting rope, 3/4 inch diameter, 6 strands, 19 wires each (total price).	Delivery.
1. Broderick & Bascom Co., St. Louis, Mo.....	¹ \$477.00	Ship in one day; lowest bid.
2. Georgia Supply Co., Jacksonville, Fla.....	478.40	In 45 days.
3. Macombre & Whyte Rope Co., Chicago, Ill....	517.14	Ship in 30 days.
4. John A. Roeblings Sons Co., Atlanta, Ga.....	491.29	In 28 days.
5. Geo. E. Chase Co., Jacksonville, Fla.....	480.00	3 reels immediately; 1 reel in 4 weeks
6. J. G. Christopher Co., Jacksonville, Fla.....	478.37	Immediate shipment.
7. The Cameron & Barkley Co., Jacksonville, Fla.	504.00	Ship in 5 days.

¹ Accepted.

NOTE.—Time of delivery based on days after receipt of notification of acceptance of bid.

Abstract of proposals for dredging in Mangrove Cut, Sarasota Bay, Fla., received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Aug. 7, 1916.

[Appropriation: Sarasota Bay, Fla.]

Name and address of bidder.	Number of cubic yards.	Price per cubic yard.	Total.	Remarks.
1. Harry S. Higel, Sarasota, Fla.....	1,400	.....	\$325.00	Complete in 10 days after award of contract.
2. Gulf Dredging Co., Boca Grande, Fla..	1,400	\$0.35	490.00	
3. Owen Burns, Sarasota, Fla.....	1,400	.20	¹ 280.00	Lowest bid.

¹ Accepted.

Abstract of proposals for furnishing material and constructing derrick barge for the dredge "Barnard," Tampa, Fla., received in response to attached circular letter and opened in the United States Engineer office, Jacksonville, Fla., Aug. 30, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Price.
1. Tampa Steam Ways Co., Tampa, Fla.....	1 \$1,390

¹ Accepted; only bid received.

Abstract of proposals for dredging and rock removal at Miami, Fla., received in response to advertisement and specifications and opened at the United States Engineer office, Jacksonville, Fla., Sept. 5, 1916.

[Appropriation: Harbor at Miami, Fla.]

Name and address of bidder.	Price of rock.	Total, 161,635 cubic yards.	Price of sand.	Total, 138,290 cubic yards.	Grand total.
	<i>Per yard.</i>		<i>Per yard.</i>		
1. P. Sanford Ross (Inc.), Jersey City, N. J.	\$1.95	\$315,285.75	\$0.26	\$35,955.40	\$351,241.15
2. Morris & Cummings Dredging Co., New York, N. Y.....	.94	151,983.90	.22	30,423.80	182,407.70
3. Eugene Breyman, Boston, Mass.....	.90	145,516.50	.10	13,829.00	159,345.50
4. Bowers Southern Dredging Co., Galveston, Tex.....	.68	109,945.80	.20	27,658.00	¹ 137,603.80
5. Coastwise Dredging Co., Norfolk, Va....	.86	139,049.10	.18	24,892.20	163,941.30

¹ Accepted; lowest bid.

Abstract of proposals for furnishing rope for the dredge "Mallery," received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Sept. 15, 1916.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	6 coils, 4-strand, 4½-inch circumference rope.			Name of maker.	Remarks.
	Weight, 1 coil.	Price.	Total.		
1. Georgia Supply Co., Jacksonville, Fla.	<i>Pounds.</i> 720	<i>Per lb.</i> \$0.20	¹ \$864.00	Columbia Rope Co....	Can not furnish 4-strand rope promptly. Delivery 2 weeks from receipt of order.
2. C. W. Green Co., Tampa, Fla.	715	.20½	890.16	Plymouth Cordage Co., North Plymouth, Mass.	
3. Geo. E. Chase & Co., Jacksonville, Fla.	746	.22	984.72	.....do.....	
4. The Cupples Cordage Co., St. Louis, Mo.	815	.18⅞	914.43	Cupples Cordage Co., Brooklyn, N. Y.	
5. The St. Louis Cordage Mills, St. Louis, Mo.	765	.19½	² 883.58	St. Louis Cordage Mills, St. Louis, Mo.	Shipment in 4 days after receipt of order. Delivery in 1 week and for acceptance at once.
6. Merrill-Stevens Co., Jacksonville, Fla.	725	.2232	970.92	Hoffman-Corr. Manufacturing Co., New York, N. Y.	
7. J. G. Christopher Co., Jacksonville, Fla.	739	.21	931.14	Columbian Rope Co., Auburn, N. Y..	Can deliver 1-coil stock immediately, and 4 in 45 days.
8. The Cameron & Barkley Co., Jacksonville, Fla.	820	.21	1,033.20	American Manufacturing Co., Brooklyn, N. Y.	Delivery 10 days or 2 weeks after receipt of order.

¹ 3-strand rope.

² Accepted.

Abstract of proposals for furnishing riveted discharge pipe for the dredge "Major J. C. Mallery," received in response to circular proposal and opened at the United States Engineer office, Jacksonville, Fla., Sept. 18, 1916.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	500 linear feet iron pipe.			500 linear feet steel pipe.			Time of delivery.	Maker of plate.	To be constructed by.
	Price per foot.	Total.	Price adjusted for time delivery.	Price per foot.	Total.	Price adjusted for time delivery.			
1. The Dixie Culvert Metal Co., Plant No. 2, Jacksonville, Fla.	\$1.90	\$950.00	\$1,025.00	-----	-----	-----	60 days.....	American Rolling Mill Co., Middletown, Ohio.	The Dixie Culvert Metal Co.
2. Gulf Iron Works, Tampa, Fla. ¹	2.40	1,200.00	1,425.00	-----	-----	-----	90 days ²	do.....	Bidder.
3. Lancaster Iron Works (Inc.), Lancaster, Pa.	-----	-----	-----	-----	\$1,232.00	\$1,282.00	50 days.....	do.....	Do.
4. Valk & Murdech Co., Charleston, S. C....	2.25	1,110.00	1,235.00	\$2.05	1,011.00	1,161.00	70 days.....	American Rolling Mill Co., Middletown, Ohio.	Do.
5. Gillespie Manufacturing Corporation, Jersey City, N. J.	4.50	2,243.54	2,643.54	\$4.65	2,318.30	2,568.40	Iron, 120 days; steel, 90 days.	do.....	Do.
6. Kehoe's Iron Works, Savannah, Ga.....	-----	-----	-----	2.50	1,250.00	1,250.00	40 days.....	-----	Hartley Boiler Works, Montgomery, Ala.
7. Alex Dussel Iron Works, New Orleans, La. ³	-----	-----	-----	2.31	1,134.00	-----	3 weeks.....	Whittaker-Glessner Co., Portsmouth, Ohio.	Bidder.
8. Gulf City Boiler Works Co., Mobile, Ala.	2.20	1,100.00	1,250.00	2.10	1,050.00	1,125.00	Iron, 75 days; steel, 55 days.	-----	Do.
9. Wilmington Iron Works, Wilmington, N. C.	2.30	1,150.00	1,275.00	2.20	1,100.00	1,250.00	70 days.....	American Rolling Mill Co., Middletown, Ohio.	Do.
10. Newbern Iron Works and Supply Co., Newbern, N. C.	1.95	995.00	995.00	-----	-----	-----	45 days.....	do.....	Do.
11. John H. Murphy Iron Works, New Orleans, La.	-----	1,416.00	1,491.00	-----	1,376.00	1,676.00	Iron, 60 days; steel, 100 days.	do.....	Do.

¹ Bid not in duplicate.

² Based upon order being placed not later than Sept. 20, 1916.

³ Informal bid.

Abstract of proposals for furnishing and delivering at Tampa, Fla., one riveted steel pipe elbow for the dredge "Barnard," received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Sept. 22, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Amount.	Delivery.	Constructed by—
		<i>Days.</i>	
1. Wilmington Iron Works, Wilmington, N. C. ¹	\$150	60	Bidder.
2. Merrill-Stevens Co., Jacksonville, Fla.....	269	10	Do.
3. Lancaster Iron Works (Inc.), Lancaster, Pa.....	215	50	Do.
4. Valk & Murdoch Co., Charleston, S. C.....	285	36	Do.
5. Gulf Iron Works, Tampa, Fla. ¹	200	15	Do.

¹ Specification detached.

² Accepted.

Abstract of proposals for furnishing and delivering wire rope for the dredge "Barnard" received in response to circular letter and opened in the United States Engineer office, Jacksonville, Fla., Sept. 27, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	2 reels of 800 feet each.	1 reel of 600 feet.	Total.	Trade name.	Delivery.
Merrill-Stevens Co., Jacksonville, Fla.	\$430.40	\$161.40	\$591.80	Green Strand.....	35 days.
2. Cameron & Barkley Co., Jacksonville, Fla.	447.20	167.70	614.90	Broderick & Bascom..	Have 2,000 feet and 514 feet in stock; balance from factory.
3. Georgia Supply Co., Jacksonville, Fla.	414.40	155.40	569.80	Roebing plow steel...	30 days.
4. Geo. E. Chase & Co., Jacksonville, Fla.	448.00	168.00	616.00	Hazard plow steel.....	Ship in 1 day.
5. Broderick & Bascom Rope Co., St. Louis, Mo.	440.00	165.00	605.00	B. & B. Standard.....	
6. J. G. Christopher Co., Jacksonville, Fla.	¹ 403.30	¹ 151.25	554.55	Leschens ¹	3 weeks from factory in St. Louis.
7. Knight & Wall Co., Tampa, Fla.	436.00	163.50	599.50	Waterbury plow steel.	8 weeks.

¹ Accepted.

Abstract of proposals for furnishing 22-inch diameter riveted discharge pipe for the dredge "Barnard," received in response to circular letter and opened in the United States Engineer office, Jacksonville, Fla., Oct. 6, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	597 linear feet iron pipe.			597 linear feet steel pipe.			Time of delivery.	Pipe constructed by—	Remarks.
	Rate per foot.	Total.	Adjusted price.	Rate per foot.	Total.	Adjusted price.			
1. The Dixie Culvert & Metal Co., Jacksonville, Fla.	\$2.81	\$1,677.57	\$1,677.57	.....	.....	.....	15 days	Bidder	
2. John H. Murphy Iron Works, New Orleans, La.	3.57	2,131.29	2,482.00	\$3.40	\$2,029.30	\$2,203.00	85 days iron; 55 days steel.....	.do.....	
3. Alex. Dussell Iron Works, New Orleans, La.	.....	.....	.....	2.76	1,647.72	.....	.....	.do.....	
4. Lancaster Iron Works (Inc.), Lancaster, Pa.	.....	.....	.....	.....	2,117.00	2,267.00	50 days .....	.do.....	
5. Merrill-Stevens Co., Jacksonville, Fla.	.....	.....	.....	4.75	2,835.75	2,835.75	20 days .....	.do.....	
6. Wilmington Iron Works, Wilmington, N. C.	2.40	1,432.80	1,807.80	2.30	1,373.10	.....	90 days iron.....	.do.....	No time stated for delivery of steel.
7. Gulf Iron Works, Tampa, Fla.	2.95	1,761.15	2,186.15	.....	.....	.....	100 days .....	.do.....	
8. Valk & Murdoch Co., Charleston, S. C.	3.00	1,791.00	2,091.00	2.60	1,552.20	1,825.20	75 days iron; 75 days steel.....	.do.....	Informal bid.
9. Abendroth & Root Manufacturing Co., New York, N. Y.	.....	2,448.00	.....	.....	2,295.00	.....	15 days after receipt of plates.....	.do.....	
10. Newbern Iron Works & Supply Co., Newbern, N. C.	12.08	1,241.76	1,411.76	.....	.....	.....	49 days.....	.do.....	Bid received by telegram Oct. 5; confirmed by formal bid Oct. 6.
11. Standard Spiral Pipe Works, Chicago, Ill.	.....	1,861.50	2,086.50	.....	1,428.00	1,628.00	60 days .....	.do.....	Riveted spiral pipe informal.

¹ Accepted.

Abstract of proposals for furnishing and delivering f. o. b. cars at bidder's nearest shipping point spud timbers for the United States dredge "Barnard," received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Oct. 6, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Four spud timbers, 34 inches diameter by 60 feet long.	
	Price each.	Total.
1. T. E. Spotswood, Mobile, Ala.....	\$250	\$1,000
2. Dan Fairley, Hattiesburg, Miss.....	225	900
3. Jos. D. Marques, jr., Mobile, Ala. ¹	175	² 700
4. Gulf Dry Dock Co., Mobile, Ala. ¹	300	1,200

¹ Proposal received 8.25 a. m., Oct. 7, 1916.

² Accepted.

Abstract of proposals for hauling out and repairing the United States dredge "Barnard," received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Oct. 28, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Total.	Work to commence.
1. Merrill-Stevens Co., Jacksonville, Fla..... ¹	\$11,197.53	10 days after notice of acceptance.
2. New Orleans Dry Dock & Shipbuilding Co., New Orleans, La.	24,816.40	3 days after arrival.
3. Ollinger & Bruce Dry Dock Co., Mobile, Ala...	19,250.35	30 days after notice of acceptance; docking at mutual convenience.
4. Henderson Iron Works Co., Mobile, Ala.....	16,657.75	30 days after notice of acceptance.
5. Valk & Murdoch Co., Charleston, S. C.....	11,479.75	55 days after notice of acceptance.
6. United States Navy Yard, New Orleans, La.... ²	10,773.25	5 days after notice of acceptance.

¹ Accepted; lowest bid.

² Informal bid; estimated; actual cost not known.

Abstract of proposals for furnishing and delivering steel wire rope at Tampa, Fla., received in response to circular letter and opened at the United States engineer office, Jacksonville, Fla., Nov. 9, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Brand.	2 reels, 800 feet each, 1½ inches diameter.	1 reel, 600 feet by 1 inch diameter.	1 length, 60 feet, 1½ inches diameter.	Total.	Delivery.	
1. John A. Roebing Sons Co., Atlanta, Ga.	Roebling plow steel.	\$939.39	\$162.88	\$35.22	\$1,137.49	60 days after receipt of order.	
2. J. G. Christopher Co., Jacksonville, Fla.	Leschens plow steel.	939.37	162.88	35.23	1,137.48	4 weeks after receipt of order.	
	Alternative bid.	Hercules red strand.	1,090.46	202.92	44.64	1,438.92	Do.
3. Knight & Wall Co., Tampa, Fla.	Not given.....	953.00	165.10	16.50	1,134.60	12 weeks after receipt of order.	
4. American Hoist & Derrick Co., St. Paul, Minn.	Standard plow steel.	848.00 A	147.12 B	31.80 A	1,026.92	A in 10 weeks; B in 5 days.	
5. Macombre & Whyte Rope Co., Chicago, Ill.	Macombre & Whyte.	937.44	162.54	35.16	1,135.14	35 days after receipt of order.	
6. Geo. E. Chase Co., Jacksonville, Fla.	Hazard's	1,216.00	210.00	45.60	1,471.60	60 days after receipt of order.	
	Alternative bid.	Hazard's genuine plow steel.	960.00	168.00	36.00	1,164.00	Do.
7. Cameron & Barkley Co., Tampa, Fla.	Roeblings.....	947.44	162.54	171.54(?)	1,281.52(?)	30 days after receipt of order.	
8. Merrill-Stevens Co., Jacksonville, Fla.	Dreadnaught.	920.00	158.95	36.00	1,114.95	60 days after receipt of order.	

Bid No. 1 received after time set for opening of bids.
 Bid No. 8 received after time set for opening of bids.
 Bids Nos. 1, 3, and 8 only specified date of delivery at Tampa, Fla. Other bids date of shipment from factory.
 Bid No. 7 subject to change after noon of Nov. 10, 1916.
 All bids rejected.

Abstract of proposals for furnishing material and constructing pontoons for the dredge "Sarasota," received in response to circular letter and opened at the United States engineer office, Jacksonville, Fla., Dec. 11, 1916.

[Appropriation: Anclote River, Fla.]

Name and address of bidder.	6 pontoons.	
	Unite price.	Total.
1. Tampa Steam Ways Co., Tampa, Fla.....	\$235.00	\$1,410.00
2. Edward I. Pillsbury, Sneads Island, Fla.....	¹ 115.35	1,692.10
3. James L. Hackney, Tampa, Fla.....	130.00	780.00
4. George L. Roberts, Sarasota, Fla.....	241.45	1,448.70

¹ Accepted.

Abstract of proposals for furnishing manila rope for delivery at Jacksonville, Fla., received in response to advertisement and opened at the United States Engineer office, Jacksonville, Fla., Dec. 18, 1916.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	3 coils 4½-inch rope.			1 coil 6-inch rope.		
	Weight.	Price.	Total.	Weight.	Price.	Total.
1. Cameron & Barkley Co., Jacksonville, Fla.....	2,460	22	\$541.20	1,500	22	\$330.00
2. Alternative bid.....	2,460	21	516.60	1,500	21	315.00
3. J. G. Christopher Co., Jacksonville, Fla.....	.....	.....	.....	1,346	25	336.50
4. Cupples Cordage Co., St. Louis, Mo.....	2,445	22.09	540.10	1,463	22.09	320.17
5. Geo. E. Chase & Co., Jacksonville, Fla..	2,127	25	531.75	1,270	25	317.50
6. St. Louis Cordage Mills, St. Louis, Mo...	2,289	22½	509.30	1,377	22½	306.38

Name and address of bidder.	2 coils 5-inch rope.			Total.	Made by—
	Weight.	Price.	Total.		
1. Cameron & Barkley Co., Jacksonville, Fla.....	2,000	22	\$440.00	\$1,311.20	American Manufacturing Co., Brooklyn, N. Y.
2. Alternative bid.....	2,000	21	420.00	1,251.60	Do.
3. J. G. Christopher Co., Jacksonville, Fla.....	1,996	25	499.00	835.50	Columbian Rope Co., Auburn, N. Y.
4. Cupples Cordage Co., St. Louis, Mo.....	2,026	22.09	447.54	1,310.81	Cupples Cordage Co., St. Louis, Mo.
5. Geo. E. Chase & Co., Jacksonville, Fla.....	1,739	25	434.50	1,283.75	Plymouth Cordage Co., North Plymouth, Mass.
6. St. Louis Cordage Mills, St. Louis, Mo.....	1,916	22½	426.32	¹ 1,242.00	St. Louis Cordage Mills, St. Louis, Mo.

¹ Accepted.

Abstract of proposals for furnishing and delivering at Tampa, Fla., 22-inch diameter riveted iron shore discharge pipe for the dredge "Barnard," received in response to advertisement and opened in the United States Engineer office, Jacksonville, Fla., December 22, 1916.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	597 linear feet 22-inch pipe.		Deliv- ery in days.	Made by—	Adjusted price.	Remarks.
	Per foot.	Total.				
1. Valk & Murdoch Co., Charleston, S. C.	\$3.75	\$2,238.75	75	Bidder..	\$2,778.75	Subject to acceptance by Dec. 23.
2. The Dixie Culvert & Metal Co., Jacksonville, Fla.	2.75	1,641.75	7	...do....	1,641.75	Misunderstanding about time. Bid withdrawn by mutual consent.
3. Wilmington Iron Works, Wilmington, N. C.	4.80	2,865.00	.....	...do....	2,865.60	
4. New Bern Iron Works & Supply Co., Newbern, N. C.	1 2.50	1,492.50	77	...do....	1,842.50	Wire to revise delivery.
5. Merrill-Stevens Co., Jacksonville, Fla.	4.10	2,447.70	14	...do....	2,482.70	Alternate bid.
6. John H. Murphy Iron Works, New Orleans, La.	{ 3.94	2,353.00	72	...do....	2,678.00	} Do.
7. Gulf Iron Works, Tampa, Fla..	{ 3.41	2,033.00	48	...do....	2,238.00	
	{ 2.93	1,749.21	48	...do....	1,954.21	

¹ Accepted.

Abstract of proposals for hauling out and repairing United States dredge "Key West," received in response to circular letter dated Dec. 13, 1916, and opened at the United States Engineer office, Jacksonville, Fla., Jan. 2, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Amount.	Work to com- mence.	Remarks.
1. Valk & Murdoch, Charleston, S. C.....	¹ \$10,563.85	25 days..	Acceptance limited to not later than Jan. 6, 1917.
2. Merrill-Stevens Co., Jacksonville, Fla.....	11,772.05	30 days..	

¹ Accepted.

Abstract of proposals for hire of dredging plant and crews for dredging and rock removal in St. Johns River, Fla., received in response to advertisement and specifications and opened at the United States Engineer office, Jacksonville, Fla., Feb. 15, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Price.	Size of pump.	Remarks.
1. P. Sanford Ross (Inc.), Jersey City, N. J.	\$261	.....	12 hours. Clamshell dredge, 2 scows, 1 tug-boat, 1 lighter. Rock breaker for additional sum of \$175. If rock breaker is operated alone when dredge outfit is not working, will furnish rock breaker, tug, and coal and water lighter for \$235.
2. Seaboard Dredging Co., Jacksonville, Fla.	¹ 275	10-inch....	24 hours.

¹ Accepted.

Abstract of proposals for furnishing 18-inch diameter riveted iron shore pipe for the United States Dredge "Major J. C. Mallery," received in response to circular proposals and opened at the United States Engineer office, Jacksonville, Fla., Mar. 1, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	About 500 feet 18-inch riveted discharge pipe.				Iron pipe manufactured by—	To be constructed by—	Remarks.
	Iron pipe.		Steel pipe.				
	Per foot.	Delivery.	Per foot.	Delivery.			
1. Jno. H. Murphy Iron Works, New Orleans, La.	\$3.07	Days. 60	.....	.....	Tennessee Coal & Iron Co.	Bidder..	
2. Merrill-Stevens Co., Jacksonville, Fla.	.....	.....	\$4.80	60	.....	.....
3. Dixie Culvert & Metal Co., Jacksonville, Fla.	3.30	60	.....	.....	American Rolling Mills Co.	.....	See letter in re size of half-oval band.
4. The Florida Metal Products Co., Jacksonville, Fla.	.....	.....	2.88	60	.....	.....	Changes specifications as per drawings submitted.
5. Kehoes Iron Works, Savannah, Ga.	.....	.....	2.73	60	.....	(1)	
6. Lancaster Iron Works (Inc.), Lancaster, Pa.	3.00	60	2.90	60	American Rolling Mills Co.	Bidder..	
7. Union Iron Works, Hoboken, N. J.	.....	.....	4.48	60	.....	.....
Newbern Iron Works & Supply Co., Newbern, N. C.	1 2.45	60	.....	.....	American Rolling Mills Co.	.....	Lowest bid (telegram).

¹ Accepted.

Abstract of proposals for furnishing dredging sleeves for United States dredges in the Jacksonville (Fla.) district, received in response to circular letter and opened at the United States Engineer office, Jacksonville, Fla., Mar. 3, 1917.

[Appropriation: River and harbor works in Florida district.]

Name and address of bidder.	10 12-ply, 23½ inches inside diameter, 28 inches long.		75 10-ply, 19 inches inside diameter, 24 inches long.		50 6-ply, 13 inches inside diameter, 13 inches long.	
	Each.	Total.	Each.	Total.	Each.	Total.
1. Gutta Percha Rubber Manufacturing Co., 126 Duane Street, New York, N. Y.	\$59.48	\$594.80	\$37.25	\$2,793.75	\$14.50	\$730.00
2. New Jersey Car Spring & Rubber Co., Jersey City, N. J.	54.00	540.00	31.58	2,368.50	13.90	695.00
3. New York Belting & Packing Co., 91-93 Chambers Street, New York City.	1 56.00	1 560.00	1 36.40	1 2,730.00	1 15.20	1 760.00
4. Manhattan Rubber Manufacturing Co., Passaic, N. J.	61.67	616.70	39.98	2,998.50	16.32	816.00
5. B. F. Goodrich Co., Akron, Ohio.....	41.66	416.60	29.60	2,220.00	10.45	522.50
6. Boston Woven Hose & Rubber Co., P. O. box 5077, Boston, Mass.	48.75	487.50	32.55	2,441.25	15.00	750.00
7. Savannah Supply Co., Jacksonville, Fla....	42.68	426.80	30.32	2,274.00	10.71	535.50

Name and address of bidder.	20 6-ply, 11½ inches inside diameter, 18 inches long.		Grand total.	Remarks.
	Each.	Total.		
1. Gutta Percha Rubber Manufacturing Co., 126 Duane Street, New York, N. Y.	\$12.33	\$346.60	\$4,365.15	Sample.
2. New Jersey Car Spring & Rubber Co., Jersey City, N. J.	12.25	245.00	3,848.50	Do.
3. New York Belting & Packing Co., 91-93 Chambers Street, New York City.	13.40	1 268.00	1 4,318.00	See letter attached to bid for other prices. Previous sample to be considered.
4. Manhattan Rubber Manufacturing Co., Passaic, N. J.	14.28	285.60	4,716.80	No sample. Previous sample to be considered.
5. B. F. Goodrich Co., Akron, Ohio.....	9.31	186.20	3,345.30	Sample.
6. Boston Woven Hose & Rubber Co., P. O. box 5077, Boston, Mass.	13.80	376.00	3,954.75	Do.
7. Savannah Supply Co., Jacksonville, Fla....	9.52	190.60	3,426.90	Do.

¹ Award checked.

Abstract of proposals for furnishing and delivering at Jacksonville, Fla., 2 pump head liners for the United States dredge "Major J. C. Mallery," received in response to circular letter and opened in the United States Engineer office, Jacksonville, Fla., Mar. 10, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Price.	Constructed by—	Remarks.
1. Jno. F. Riley Foundry & Machine Co., Charleston, S. C.	\$231.71	Bidder..	Will deliver in about 6 weeks after receipt of order.
2. Valk & Murdoch Co., Charleston, S. C.	195.00	...do....	Will deliver in about 8 weeks from receipt of order.
3. Tampa Shipbuilding & Engineering Co., Tampa, Fla.	300.00	...do....	Bid not in duplicate.
4. Elliott Machine Corporation, Baltimore, Md.	164.20	...do....	
5. Merrill-Stevens Co., Jacksonville, Fla.	223.90	...do....	Furnish liners in halves. Welding, \$20 extra for 2; total, \$243.90. Delivery 6 days after receipt of order. Price for immediate acceptance.

¹ Accepted.

Abstract of proposals for furnishing steel wire hoisting rope, received in response to circular letter and opened in the United States Engineer office, Jacksonville, Fla., May 18, 1917.

[Appropriation: Hillsboro Bay and St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Brand.	2 reels, 1½ inches, 800 feet each, f. o. b. Tampa.	1 reel, 600 feet, 1½ inches, f. o. b. Tampa.	4 reels, 600 feet each, f. o. b. Jacksonville.	Total.	Time of delivery, days.
1. Geo. E. Chase & Co., Jacksonville, Fla.....	Olympic....	\$760.47	\$285.25	\$717.60	\$1,763.32	21
2. Macomber & Whyte Rope Co., Chicago, Ill.	Monarch....	825.84	309.69	779.22	1,914.75	112
3. Southern Rubber & Supply Co., Atlanta, Ga	Hercules....	870.40	326.40	821.28	2,018.08	180
4. Fischer & Hayes Rope Co., Chicago, Ill....	Atlas.....	700.00	262.00	661.00	1,623.00	70
5. J. G. Christopher & Co., Jacksonville, Fla..	Leschens....	822.13	308.30	775.73	1,906.16	90

¹ Accepted.

Abstract of proposals for furnishing and delivering wire rope for the United States dredge "Barnard" at Tampa, Fla., and the United States dredge "Major J. C. Mallery" at Jacksonville, Fla., received in response to circular proposal and opened at the United States Engineer office, Jacksonville, Fla., Mar. 26, 1917.

[Appropriation: St. Johns River, Fla. (general improvement), and Hillsboro Bay, Fla.]

Name and address of bidder.	2 reels, 800 feet each, 1½ inches diameter.	1 reel, 600 feet, 1½ inches diameter.	4 reels, 600 feet each, ¾ inch diameter.	Total.	Trade name.	Time of delivery.	Remarks.
1. Associated Manufacturers' Agency Sales Co., 124 East Second Street, Cincinnati, Ohio.	\$179.68a	\$179.88a	\$434.40b	\$1,093.96	{a, Uppson-Walton. b, Hazard.	Immediate	Quotation subject to immediate acceptance and prior sale.
Alternate bid..	459.04	172.14	.....	.....	Hazard.....	6 weeks...	
2. J. G. Christopher Co., 422 East Bay Street, Jacksonville, Fla.	822.68	308.88	775.68	1,907.24	{Leschens..... Hercules..... Red Strand..	6 weeks...	
McCombre & Whyte Rope Co., 507 South Clinton Street, Chicago, Ill.	775.74	290.90	731.95	1,798.59	{Monarch..... White Strand }	40 to 50 days.	Time of delivery stated in separate letter.
4. Southern Rubber Supply Co., 84 North Pryor Street, Atlanta, Ga.	800.00	300.00	755.00	1,855.00	{Hercules..... Red Strand..	30 to 45 days.	
5. Cameron & Barkley Co., Tampa, Fla.	656.64	246.24	620.16	1,523.04	Plow Steel...	Soon as possible.	Breaking strength not less than 47 tons.
6. Geo. E. Chase & Co., Jacksonville, Fla.	760.47	285.25	717.52	1,763.24	{Hazard..... Plow Steel...}	See note...	Factory can make shipment in 3 months on receipt of order.
7. Cameron & Barkley Co., Jacksonville, Fla.	822.12	308.29	775.71	1,906.12	{Roebblings.... Blue Center..}	Ship in 28 days.	

¹ Accepted.

Abstract of proposals for furnishing pump head liners for the dredge "Major J. C. Mallery," received in response to circular letter and opened at the United States engineer office, Jacksonville, Fla., May 22, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Two pump head liners.		Delivery.	Remarks.
	Amount.	Constructed at—		
1. T. Murphy Iron Works, Jacksonville, Fla.	\$237.50	Own works.	42 days....	Bid for immediate acceptance.
2. Merrill-Stevens Co., Jacksonville, Fla....	248.00	.....	30 days....	
3. Jno. F. Riley Co., Charleston, S. C.....	278.14	.....	do.....	
4. Valk & Murdoch Co., Charleston, S. C....	¹ 233.00	Own works.	42 days....	
5. Ellicott Machine Corporation, Baltimore, Md.	256.00	.....	14 days....	Bid for prompt acceptance by wire.

¹ Accepted.

Abstract of proposals for furnishing material and calking and sheathing barges, received in response to circular letter and opened at the United States engineer office, Jacksonville, Fla., May 22, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	Calking and sheathing 4 barges.		Total.	Remarks.
	Nos. 2, 3, and 4 (each).	No. M-S, amount.		
1. Merrill-Stevens Co., Jacksonville, Fla.			\$2,192.36	
2. South Jacksonville Dry Dock Co., South Jacksonville, Fla.	¹ \$475.00	¹ \$190.00	¹ 1,600.00	Total bid less than aggregate of items.

¹ Accepted.

Abstract of proposals for furnishing 18-inch discharge pipe for the dredge "Major J. C. Mallery," received in response to circular letter and opened at the United States engineer office, Jacksonville, Fla., May 28, 1917.

[Appropriation: St. Johns River, Fla. (general improvement).]

Name and address of bidder.	600 linear feet discharge pipe, 18 inches diameter.						Maker of plate.	Pipe constructed by—	Remarks.
	Riveted iron pipe.		Riveted steel pipe.		Lap-welded steel pipe.				
	Per foot.	Total.	Per foot.	Total.	Per foot.	Total.			
1. Kehoe's Iron Works, Savannah, Ga.			\$5.77	\$3,462					
2. Lancaster Iron Works, Lancaster, Pa.			7.10	4,260				Steel in stock; ship in 3 weeks.	
3. Alabama Dry Dock & Shipbuilding Co., Mobile, Ala.	\$6.40	\$3,840	5.90	3,540			American Rolling Mills.	Bidder.	
4. John F. Riley Foundry & Machine Works, Charleston, S. C.	10.31	¹ 6,186	10.81	¹ 6,480			(?)	(¹).	
5. John H. Murphy Iron Works, New Orleans, La.			7.45	4,470					
6. M. W. Kellogg Co., New York, N. Y.					\$8.20	\$4,920	National Tube Co.	Bidder.	Increase in freight charges to be paid by purchaser.
7. Newbern Iron Works & Supply Co., Newbern, N. C.	² 5.70	² 3,420					American Rolling Mills Co.		

¹ As corrected.

² Accepted.

Abstract of proposals for furnishing about 1,000 feet of 22-inch discharge pipe for the dredge "Barnard," received in response to circular letter and opened June 11, 1917, at the United States engineer office, Jacksonville, Fla.

[Appropriation: Hillsboro Bay, Fla.]

Name and address of bidder.	Furnishing materials and labor.			Materials furnished by the United States.			
	Riveted steel; price per linear foot.	Lap-welded steel; price per linear foot.	Constructed by—	Riveted iron pipe; price per linear foot.	Riveted steel; price per linear foot.	Lap-welded steel; price per foot.	Manufactured by—
1. Alabama Dry Dock & Shipbuilding Co., Mobile, Ala.	\$11.37	.....	.....	\$3.25	\$3.25	.....
2. Lancaster Iron Works, Lancaster, Pa.	.....	.....	.....	.....	3.25	.....
3. Kehoe's Iron Works, Savannah, Ga.	9.12½	.....	.....	.....	1.46	.....
4. Gulf Iron Works, Tampa, Fla.	.....	.....	.....	2 5.50	2 5.50	.....
5. John H. Murphy Iron Works, New Orleans-La.	.....	.....	.....	.....	{ 2.50 4 3.33 }	.....
6. M. W. Kellogg Co., Jersey City, N. J.	.....	\$1,296	National Tube Co., Pittsburgh, Pa.	.....	.....	\$8.62	Own works.
7. Newbern Iron Works & Supply Co., Newbern, N. C.	.....	.....	.....	1.20	1.20	.....	Do.

¹ Delivery in 135 days. ² Delivery in 180 days. ³ F. o. b. New Orleans, La. ⁴ F. o. b. Tampa, Fla.

Award checked. All bids rejected.

No bids received on riveted iron pipe or lap-welded iron pipe furnishing material and labor.

No alternative bids except those shown above.

WRECKS.

Abstract of proposals for removing portion of wreck "Mildred" from the Southwest Channel at the entrance to Tampa Bay, Fla., received in response to circular letter and opened in the United States Engineer office, Jacksonville, Fla., Sept. 22, 1916.

[Appropriation: Removing sunken vessels or craft obstructing or endangering navigation.]

Name and address of bidder.	Amount.	Remarks.
1. Charles W. Johnston, Lewes, Del.....	\$1,495	
2. Edwards Construction Co., Tampa, Fla.....	¹ 1,350	Certified check for \$500 submitted in lieu of bond.

¹ Accepted.

MONTGOMERY (ALA.) DISTRICT.

[Officer: Capt. C. L. Sturdevant, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for furnishing about 16,000 tons of gravel or crushed stone, opened at the United States Engineer office, Montgomery, Ala., June 9, 1917, in response to advertisement dated May 9, 1917.

[Appropriation: Gun and mortar batteries (battery construction).]

Name and address of bidder.	Gravel.				Crushed stone.
	F. o. b. cars at Pensacola, Fla.	F. o. b. cars.		F. o. b. barges alongside of wharf at Santa Rosa Island.	
		Point.	Price.		
1. B. J. Trobok, Pensacola, Fla.....	Per ton. \$1.90	Berrylum, Ala.....	Per ton. \$1.30	Per ton. \$2.40	(1)
2. W. R. Taylor & Co., Pensacola, Fla.	1.85	Flomaton and Osika, Ala.	1.35	(1)	(1)
3. Cook & Laurie Gravel Co., Montgomery, Ala.	} (1)	Cooks, Ala.....	{ 2.95 2.80	} (1)	(1)
4. A. J. Martin Co., Augusta, Ga.....		(1)			

¹ No bid.

² $\frac{1}{4}$ to $1\frac{1}{2}$ inches, \$0.95; $\frac{1}{4}$ to 2 $\frac{1}{2}$ inches, \$0.80.

Alternative bid No. 3 recommended for acceptance at \$0.80.

Abstract of proposals for furnishing about 14,000 barrels of American Portland cement, opened at the United States Engineer office, Montgomery, Ala., June 16, 1917, in response to advertisement dated May 16, 1917.

[Appropriation: Gun and mortar batteries (battery construction).]

Name and address of bidder.	Price per barrel of 4 sacks.		Brand.	Weight per barrel.	Charge to United States for each sack.	
	F. o. b. cars at Pensacola, Fla.	F. o. b. cars at mills.			Not returned.	Damaged.
1. Southern States Portland Cement Co., Rockmart, Ga.	\$2.18	\$1.80	Southern States.	Pounds. 376	\$0.10	\$0.03
2. W. R. Taylor & Co., Pensacola, Fla.	1.90	1.58	Standard.....	376	.10	.05
3. Gary & Co., Pensacola, Fla.....	2.24	1.80	Dixie.....	376	.10	.....
4. W. A. Ray Hardware Co., Pensacola, Fla.	2.24	1.80	Royal.....	376	.10	.....

Remarks: Bidder No. 1 submitted certified check of \$3,000 in lieu of guaranty. Bid No. 2 recommended for acceptance.

COAL.

Abstract of proposals for furnishing about 4,000 tons of bituminous coal, opened at the United States Engineer office, Montgomery, Ala., May 23, 1917, in response to advertisement dated Apr. 23, 1917.

[Appropriations: Fortifications and river and harbor works.]

Name and address of bidder.	4,000 tons bituminous run-of-mine coal, per ton of 2,000 pounds, at—		B. t. u. per pound of dry coal.	Ash in dry coal.	Sulphur in dry coal.	Volatile matter in dry coal.	Moisture in dry coal as received.	Corrected cost based on greater guaranteed B. t. u., at—	
	F. o. b. mines.	F. o. b. Pensacola.						F. o. b. mines.	F. o. b. Pensacola.
1. Cary & Co., Pensacola, Fla.	\$4.50	\$5.75	14,300	Per ct. 9	Per ct. 1.75	Per ct. 31	Per ct. 3	+\$4.58	+\$5.89

Recommendation as to award pending result of test of sample submitted.

MOBILE (ALA.) DISTRICT.

[Officer: Maj. W. L. Guthrie, Corps of Engineers.]

RIVERS AND HARBORS.

COAL.

Abstract of bids received in response to 30 days' newspaper advertisement for furnishing approximately 12,000 tons of bituminous coal, opened in United States Engineer office, Mobile, Ala., on July 31, 1916.

[Improving harbors, Mobile (Ala.) district.]

Name and address of bidder.	Imperial Coal & Coke Co., Birmingham, Ala.	Imperial Coal & Coke Co., Birmingham, Ala..	Tennessee Coal, Iron & R. R. Co., Birmingham, Ala. ¹	Warrior Black Creek Coal Co., Warrior, Ala.
Commercial name of coal.	Imperial washed pea. ²	Imperial washed nut.	Old Pratt screened and hand-picked nut and medium steam lump coal.	Warrior Black Creek.
Name of mine or mines.	Dixiana.....	Dixiana.....	Edgewater (Old Pratt group) mine.	Nyota.
Location of mine or mines.	Dixiana, Jefferson County, Ala.	Dixiana, Jefferson County, Ala.	Edgewater, Jefferson County, Ala.	Warrior, Jefferson County, Ala.
Railroad on which located.	Huntsville Branch of L. & N. R. R.	Huntsville Branch of L. & N. R. R.	Birmingham Southern.	Hogeland Branch of L. & N. R. R. ³
Point of delivery.....	On cars at mine...	On cars at mine...	On cars at mine...	On cars at mine.
Method of loading.....	Not stated.....	Not stated.....	Through Louisville & Nashville or Southern Ry. coal conveyors at Mobile to Government barges or vessels.	Not stated.
Price per ton of 2,000 pounds, car-load lots.	\$1.50.....	\$1.65.....	\$1.75.....	\$1.60.
Freight rate on Government bill of lading from mine to Mobile: Per ton of 2,000 pounds.	\$0.6931.....	\$0.6931.....	\$0.5842.....	\$0.6808.
Per million B. t. u.'s.	\$0.0234.....	\$0.0231.....	\$0.0197.....	\$0.0228.
Detailed analysis of coal:				
Per cent ash.....	4.00.....	3.00.....	5.00.....	3.00.
Per cent moisture.....	3.00.....	1.50.....	1.50.....	2.00.
Per cent volatile matter.	32.00.....	32.00.....	29.50.....	31.00.
Per cent sulphur... B. t. u.'s per pound.	1.00..... 14,800.....	1.00..... 15,000.....	1.39..... 14,800.....	1.39..... 14,900.
Price adjusted for ash...	\$1.480.....	\$1.610.....	\$1.750.....	\$1.560.
Price adjusted for moisture.	\$1.526.....	\$1.635.....	\$1.777.....	\$1.592.
Price adjusted per million B. t. u.'s.	\$0.0516.....	\$0.0545.....	\$0.0600.....	\$0.0534.
Price adjusted per million B. t. u.'s on barge at Mobile.	\$0.0750.....	\$0.0776.....	\$0.0797.....	\$0.0762.
Remarks.....	Size $\frac{3}{4}$ to $\frac{1}{8}$ inch Black Creek coal beds.	Size 3 to $\frac{3}{4}$ inch Black Creek coal beds.	Warrior (Old Pratt) Basin. ⁴	(⁵)

¹ This bid is not signed by either an officer or agent of the company.

² Recommended for acceptance.

³ Coal moves from Elvisto, Ala., over Hogeland Branch to Linton, Linton Branch to Warrior, Warrior Branch to Monmouth, the new junction point with present main line of L. & N. R. R.

⁴ Size of coal best adapted for hand-fired furnaces and used largely by majority United States Government War and Navy Departments last five years in Southern States.

⁵ Run of mines, $\frac{3}{4}$ -inch washed. Black Creek coal beds.

NEW ORLEANS (LA.) DISTRICT.

[Officer: Col. J. C. Sanford, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals received in response to advertisement by newspaper for a period of 20 days, for furnishing and delivering piles, walings, and lumber at Southwest Pass, Mississippi River, and opened by Maj. J. L. Schley, Corps of Engineers, New Orleans, La., at 11 a. m., Dec. 28, 1916.

[Passes of Mississippi River.]

Name and address of bidder.	Lot No. 1, creosoted piles, 48,000 linear feet.		Lot No. 2, creosoted walings, 6,000 linear feet.		Lot No. 3, creosoted lumber, 41,200 linear feet.		Grand total.
	Unit price.	Total.	Unit price.	Total.	Unit price.	Total.	
1. Lester F. Alexander, New Orleans, La.	\$0.3745	\$17,976.00	\$0.5070	\$3,042.00	\$52.45	\$2,160.94	\$23,178.94
2. Creosoted Material Co., New Orleans, La. ....	.39	18,720.00	.59	3,540.00	55.00	2,266.00	24,526.00
3. Salmen Brick & Lumber Co., New Orleans, La. ....	.3975	19,080.00	.5992	3,595.20	53.75	2,214.50	24,889.70
4. Rodd White Co., New Orleans, La.							26,934.30

¹ Accepted and contract entered into Jan. 19, 1917.

Abstract of proposals received in response to advertisement by newspaper for a period of 30 days, for bulkhead at Southwest Pass, Mississippi River, and opened by Maj. J. L. Schley, Corps of Engineers, New Orleans, La., at 11 a. m., Jan. 16, 1917.

[Passes of Mississippi River.]

Name and address of bidder.	Section A-B, 3,200 linear feet.		Section B-C, section E-F, 6,800 linear feet.		Section C-D, 4,800 linear feet.		Grand total.
	Unit price.	Total.	Unit price.	Total.	Unit price.	Total.	
D. M. Pictou & Co., Galveston, Tex.: Regular	\$37.00	\$118,400	\$43.50	\$295,800	\$46.20	\$221,760	\$635,960
Wm. Moore, Texas City, Tex.: Regular	29.00	92,800	36.40	247,520	43.60	209,280	549,600
First alternate	32.30	103,360	41.80	284,240	48.90	234,720	622,320
Hampton Reyno'ds, 823 Mason Blanche, New Orleans, La.: Regular	29.88	95,616	36.93	251,124	43.67	209,616	556,376
First alternate	34.28	109,696	41.33	281,044	48.67	230,736	621,476
Second alternate	32.56	104,192	39.61	269,348	46.35	222,480	596,020
Lester F. Alexander, 834 Audubon Building, New Orleans, La.: Regular	23.50	75,200	29.50	200,600	35.50	170,400	446,200
First alternate	25.85	82,720	32.45	220,660	39.05	187,440	490,820
Second alternate	25.85	82,720	32.45	220,660	39.05	187,440	490,820

¹ Recommended for acceptance and contract entered into Jan. 27, 1917.

Abstract of proposals received in response to advertisement by newspaper for a period of 30 days, for furnishing and delivering about 30,000 cords of willows and 500 cords of poles, for South and Southwest Passes, Mississippi River, and opened by Col. J. C. Sanford, Corps of Engineers, New Orleans, La., at 11 a. m., June 28, 1917.

[Passes of Mississippi River. Maintenance of South Pass Channel, Mississippi River, 1918.]

Name and address of bidder.	30,000 cords of willows.		500 cords of poles.		Grand total.
	Unit price.	Total.	Unit price.	Total.	
1. R. M. Murphy Co. (Inc.), Venice, La.	\$1.75	\$52,500	\$4.00	\$2,000	\$54,500

Recommendation held up pending passage of river and harbor bill.

COAL.

Abstract of proposals received in response to advertisement by newspaper for period of 30 days, for furnishing and delivering coal for United States plant from July 1, 1917, to June 30, 1918, and opened by Col. J. C. Sanford, Corps of Engineers, New Orleans, La., June 25, 1917.

[Passes of Mississippi River. Maintenance of South Pass Channel, Mississippi River, 1918. Operating and care of canal and other works of navigation: Indefinite.]

Name and address of bidder.	(a) 15,000 tons.		(b) 800 tons.		(c) 2,500 tons.	
	Unit price.	Total.	Unit price.	Total.	Unit price.	Total.
W. G. Coyle & Co. (Inc.), New Orleans, La.: Sipsey, 3-inch washed, mine run ¹	\$6.65	\$99,750	\$6.00	\$4,800	\$6.25	\$15,625
Warriwer washed, mine run ²	6.10	91,500	5.50	4,400	5.70	14,250

¹ Per cent of volatile matter, 34; ash, 8; sulphur, 1.25; moisture, 3½; B. t. u., 14,000.

² Per cent of volatile matter, 33; ash, 11; sulphur, 1.5; moisture, 3½; B. t. u., 13,200.

Recommended that bid be rejected.

GALVESTON (TEX.) DISTRICT.

[Officer: Maj. E. N. Johnston, Corps of Engineers.]

FORTIFICATIONS.

[Repair and restoration of defense of Galveston, Tex.]

Abstract of proposals for furnishing and placing rock at Fort Travis Reservation, Bolivar, Tex., received in response to poster and circular letter advertisement (15 days' public notice), dated Nov. 7, 1916, and opened Nov. 23, 1916, by N. T. Blackburn, assistant engineer.

Name and address of bidder.	1,200 tons of 2,000 pounds in place.	
	Unit price.	Total.
1. Sam Fridner, Galveston, Tex.....	\$5.45	\$6,540.00
2. Blodgett Construction Co., Galveston, Tex.....	6.60	7,920.00

Awarded to No. 1.

RIVERS AND HARBORS.

Abstract of proposals for the construction and delivery of 150 rubber dredging sleeves, received in response to poster, circular letter, and advertisement (30 days' public notice), dated Dec. 8, 1916, and opened Jan. 8, 1917, by H. B. Sinclair, chief clerk.

[Harbor at Galveston, Tex. Channel from Galveston Harbor to Texas City, Tex. Houston Ship Channel, Tex.]

Name and address of bidder.	Total.
1. Republic Rubber Co. of Texas, Dallas, Tex.....	\$8,796.00
2. The B. F. Goodrich Co., Akron, Ohio.....	10,285.20
3. Peerless Rubber Manufacturing Co., New York, N. Y.....	8,860.00
4. Boston Woven Hose & Rubber Co., Boston, Mass.....	7,989.90
5. New York Belting & Packing Co., New York, N. Y.....	8,625.00
6. The Gutta Percha & Rubber Manufacturing Co., New York, N. Y.....	8,732.00
7. New York Rubber Co., New York, N. Y.....	13,352.24
8. The Manhattan Rubber Manufacturing Co., Passaic, N. J.....	9,755.70

Abstract of proposals for jetty work at Port Aransas, Tex., received in response to advertisement dated Dec. 26, 1916, and opened Jan. 24, 1917, at Galveston, Tex., by E. N. Johnston, major, Corps of Engineers.

[Port Aransas, Tex.]

Quantities.	Name and address of bidder.			
	1. Charles Clark & Co., Galveston, Tex.		2. David M. Picton & Co., Galveston, Tex.	
	Unit price.	Total.	Unit price.	Total.
650 tons small riprap, from 15 to 200 pounds per piece, properly placed in the core of the work.....	\$5.00	\$3,250.00	\$4.95	\$3,217.00
2,700 tons large riprap, from 5 to 10 tons per piece, properly placed in the slopes of the work.....	6.00	16,200.00	5.65	15,255.00
250 tons crest stone, 9 to 11 tons, to average about 10 tons each, properly placed in the work.....	7.25	1,812.50	6.95	1,737.50
360 pieces crest blocks picked up and rebekded.....	7.50	2,700.00	8.50	3,060.00
700 tons small riprap, from 15 to 200 pounds per piece, properly placed in the core of the work.....	5.00	3,500.00	4.95	3,465.00
1,000 tons medium riprap, from 200 pounds to 3 tons per piece, properly placed in the core of the work.....	6.00	6,000.00	5.25	5,250.00
2,100 tons large riprap, 5 to 10 tons per piece, properly placed in the slopes of the work.....	6.00	12,600.00	5.65	11,865.00
850 tons crest stone, 9 to 11 tons, to average about 10 tons each, properly placed in the work.....	7.25	6,162.50	6.95	5,907.50
305 pieces crest blocks picked up and rebekded.....	7.50	2,287.50	8.50	2,592.50
Total.....		54,512.50		52,350.00

All bids rejected; considered excessive.

WRECKS.

Abstract of proposals for removing various wrecks located in the Houston ship channel and tributaries, received in response to advertisement dated Aug. 7, 1916, and opened Sept. 6, 1916, at Galveston, Tex., by E. N. Johnston, major, Corps of Engineers.

[Removing sunken vessel or craft obstructing or endangering navigation; indefinite.]

Name and address of bidder.	Removing wrecks of the—								Total.
	Steamer Lawrence.	Barge A. N. Fitzgerald No. 5.	Barge (name unknown).	Steam tug Mary Lee.	Steamer W. M. Kyle.	Der-rick barge Alice.	Schooner M. L. Weaver.	Barge Donnie.	
<i>Removing any one or more of the wrecks.</i>									
1. Chas. Clarke & Co., Galveston, Tex.....									
2. Blodgett Construction Co., Galveston, Tex....	\$1,500	\$750	\$600	\$2,500	\$600	\$900	\$600	\$750	.....
3. Chas. J. Bryant, Galveston, Tex.....									.....
4. Charles W. Johnston, Lewes, Del.....									.....
5. Chas. S. Basham, Houston, Tex.....	500	250	400	1,200	500	700	900	400	.....
6. G. C. Griffin, Houston, Tex.....	685	685	525	3,800	450	850	550	625	.....
<i>Alternative bid in case the work is awarded as a whole.</i>									
1. Chas. Clarke & Co., Galveston, Tex.....	475	350	290	1,000	360	500	375	300	3,650
2. Blodgett Construction Co., Galveston, Tex....	1,500	200	200	2,300	200	550	200	425	5,575
3. Chas. J. Bryant, Galveston, Tex.....	625	850	1,100	750	1,250	1,050	600	825	7,050
4. Charles W. Johnston, Lewes, Del.....	1,600	400	500	1,200	800	500	400	300	5,700
5. Chas. S. Basham, Houston, Tex.....	500	250	400	1,200	500	700	900	400	4,850
6. G. C. Griffin, Houston, Tex.....	650	650	500	3,600	400	800	500	600	7,700

Awarded to No. 2 for removal of barge, name unknown; steamer Wm. Kyle; schooner M. L. Weaver. Awarded to No. 5 for removal of steamer Lawrence, barge A. N. Fitzgerald No. 5, barge Donnie.

DALLAS (TEX.) DISTRICT.

[Officer: Maj. E. N. Johnston, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for iron and steel for Lock and Dam No. 1, Trinity River, Tex., received in response to newspaper and poster and circular-letter advertisement for 30 days, opened at United States engineer office, Dallas, Tex., at 12 m., Aug. 31, 1916, under the direction of Maj. W. J. Barden, Corps of Engineers.

Items.	1. Independent Bridge Co., Pittsburgh, Pa.	2. Milwaukee Bridge Co., Milwaukee, Wis.	3. Chas. Hegewald Co., New Albany, Ind.	4. Ellicott Machine Corporation, Baltimore, Md.	5. Houston Car Wheel & Machine Co., Houston, Tex.										
(a) The following as shown on sheet T-100/61: 1 section A of tripping bar..... 1 section B of tripping bar..... 1 section C of tripping bar..... 1 section D of tripping bar..... 22 hurters..... Bolts and rivets as listed under note B.	No bid.	1 \$3,475	No bid.	\$3,126	No bid.										
(a') Alternate proposal: Material as listed above, substituting structural steel where nickel steel is shown.....						\$3,280	3,300	\$3,154	2,989	\$2,369					
(b) The following as shown on sheet T-100/62: 22 horses..... 22 props..... 22 wickets.....						11,780	13,370	2 11,529	17,958	13,455					
(c) The following as shown on sheet T-100/63: 1 bed plate with bolts..... 1 bridge frame with bolts..... 2 driving pinions..... 1 intermediate gear..... 1 main gear..... 1 pinion..... 1 gear shaft..... 1 pinion shaft..... 2 capstan heads..... 3 operating handles..... 1 grating with anchors..... 1 screen..... 2 Z bars with bolts.....											No bid.	1 1,632	No bid.	1,407	No bid.
(c') Alternate proposal: Material as listed above, substituting structural steel where nickel steel is shown.....															

¹ Items (a) and (c) awarded to Milwaukee Bridge Co. at \$3,475 and \$1,632, respectively.

² Item (b) awarded to Chas. Hegewald Co. at \$11,529.

Abstract of proposals for jetty work at Sabine Pass, Tex., received in response to newspaper advertisement for 30 days, opened at United States Engineer office, Dallas, Tex., at 12 m. Nov. 14, 1916, by Lieut. Col. W. J. Barden, Corps of Engineers.

[Estimated quantities: Stone in core, 41,123 tons; stone in slopes and top, 34,513 tons; stone for repairs, 14,332 tons.]

Items.	1. The Edward Gillen Dock, Dredge & Construction Co., Racine, Wis.	2. David M. Picton & Co., Galveston, Tex.	3. W. A. Wansley, Galveston, Tex.
1. For core stone properly placed in the work, at per ton of 2,000 pounds.....	\$3.38	\$3.30	\$3.33
Amount.....	\$138,995.74	\$135,705.90	136,939.59
Kind of stone.....	Sandstone.	Sandstone.	Sandstone.
Approximate specific gravity per cubic foot....	Not given.	135 pounds and up.	135 to 140 pounds.
2. For slope and top stone properly placed in the work, at per ton of 2,000 pounds.....	\$4.20	\$4.08	\$4.11
Amount.....	\$144,954.60	\$140,813.04	\$141,848.43
Kind of stone.....	Granite.	Granite.	Granite.
Approximate specific gravity per cubic foot....	160 pounds or more.	160 pounds.	160 pounds and over.
3. For repairs stone properly placed in the work, at per ton of 2,000 pounds.....	\$4.50	\$4.08	\$4.11
Amount.....	\$64,494.00	\$58,474.56	\$58,904.52
Total estimated cost.....	\$348,444.34	\$334,993.50	\$337,692.54

Contract awarded to David M. Picton & Co.

Abstract of proposals for levee work on Red River, near Homan, Ark., received in response to poster and circular notice for 20 days, opened at United States Engineer office, Dallas, Tex., at 12 m. February 12, 1917, by Lieut. Col. W. J. Barden, Corps of Engineers.

[Estimated quantity, 84,170 cubic yards.]

Item.	1. Newman B. Gregory, Texarkana, Tex.	2. Walter H. Denison, Cushman, Ark.	3. Douglas & Burt, Dixie, La.	4. Jno. G. Sessions, James, Miss.	5. W. M. Rushing, Shreveport, La.
For constructing Upper Adams Levee loop around a threatened break in the Miller levee district No. 2, near Homan, Ark., on Red River, at per cubic yard.....	\$0.18	\$0.184	\$0.216	\$0.1894	\$0.174
Total amount.....	\$15,150.60	\$15,487.28	\$18,180.72	\$15,941.80	\$14,645.58

Contract awarded to W. M. Rushing.

Abstract of proposals for iron and steel for Lock and Dam No. 3, Brazos River, received in response to newspaper and poster and circular-letter advertisement for 30 days, opened at United States engineer office, Dallas, Tex., at 12 m. Apr. 30, 1917, by Lieut. Col. W. J. Barden, Corps of Engineers.

[Estimated quantity, 96,000 pounds.]

Items.	1. Houston Car Wheel & Machine Co., Houston, Tex.	2. Chas. Hege-wald & Co., New Albany, Ind.
Iron and steel as listed and described in paragraph 25 of the specifications attached and in accordance with blue prints Nos. 6 to 13, inclusive (file No. 21-3-33), for the lump sum of.....	\$13,081	\$18,000

Both bids rejected.

LITTLE ROCK (ARK.) DISTRICT.

[Officer: Lieut. Col. G. P. Howell, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for building two dikes and repairing five others in Arkansas River, near Little Rock, Ark., and opened Apr. 25, 1917, by Lieut. Col. G. P. Howell, Corps of Engineers.

[Appropriation for Arkansas River, Ark., bank revetment in vicinity of Little Rock.]

Name and address.	Grading bank (975 linear feet).		Brush and poles (540 cords.)		Stone (5,200 cubic yards).		Piles and string- ers (19,750 linear feet).		Total.
	Unit.	Total.	Unit	Total.	Unit.	Total.	Unit.	Total.	
1. Pine Bluff Sand and Gravel Co., Pine Bluff, Ark.....	\$2.00	\$1,950.00	\$10.40	\$5,616.00	\$2.72	\$14,144.00	\$0.48	\$9,480.00	\$31,190.00
2. James Trainor, Little Rock, Ark.....	1.00	975.00	5.00	\$2,700.00	2.50	13,000.00	.37	7,307.50	23,982.50
3. Miller Engineering Co., Little Rock, Ark.....	4.90	4,777.50	5.95	3,213.00	2.45	12,740.00	.80	15,800.00	36,530.50

¹ Accompanied by \$13,000 certified check.

Award of contract to James Trainor recommended.

ST. LOUIS (MO.) DISTRICT.

[Officer: Maj. Clarke S. Smith, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for one pair tandem compound engines of 1,000 horsepower (with condensers) for stern paddle-wheel steam towboat, received in response to advertisement dated July 26, 1916, and opened Aug. 16, 1916, by Maj. Wildurr Willing, Corps of Engineers, St. Louis, Mo.; also alternate proposal for furnishing engines of 1,200 horsepower (without condensers).

Names and addresses of bidders.	For engines of 1,000 horse- power with condensers.		For engines of 1,200 horsepower with- out condensers, alternate pro- posal.		
	Price.	Time of delivery.		Price.	Time of delivery.
		Engines.	Con- densers.			Price.	Time of delivery.
1. Gillett, Eaton & Squire, Lake City, Minn.....	\$13,510	Days.	Days.	\$9,995	Days.
2. Marietta Manufacturing Co., Marietta, Ohio.....	15,500	120	240	(¹)	120
		150	150		.....

¹ No bid.

Award: No. 1 for engines of 1,200 horsepower without condensers.

NOTE.—No award made for engines of 1,000 horsepower with condensers.

Abstracts of proposals for furnishing one battery (Scotch) marine boilers for stern paddle-wheel towboat, received in response to advertisement dated Aug. 9, 1916, and opened Aug. 30, 1916, by Maj. Wildurr Willing, Corps of Engineers, St. Louis, Mo.

Name and address of bidder.	Price.	Time of delivery.
1. The Ruemmeli-Dawley Manufacturing Co., St. Louis, Mo.....	{ (a) \$25,607.00 (b) 25,510.00 (c) 24,105.00	365 days.

NOTE.—Proposal rejected on account of length of time for delivery.

Abstract of proposals for one pair tandem compound condensing engines, 18-inch and 48-inch diameter cylinders by 5-foot stroke, for a steam towboat, received in response to advertisement by circular dated May 31, 1917, and opened June 30, 1917, by Maj. Clarke S. Smith, Corps of Engineers, St. Louis, Mo.

Name and address of bidders.	Price.	Approximate weight.	Time of delivery.
1. Gillett, Eaton & Squire, Lake City, Minn.....	\$14,875	Pounds. 63,000	Days. 180
2. Marietta Manufacturing Co., Point Pleasant, W. Va.....	14,900	65,150	200
3. Nordberg Manufacturing Co., Milwaukee, Wis.....	48,500	175,000	365
4. Schoellhorn-Albrecht Manufacturing Co., St. Louis, Mo. ¹	55,000 (²)			365

¹ Informal letter proposal.

² 40 cents per pound.

Award recommended: Proposal No. 1, Gillett, Eaton & Squire, \$14,875.

Abstract of proposals for furnishing two batteries of marine boilers, combination water and fire tube type, of about 1,200 aggregate horsepower for stern paddle-wheel towboat, received in response to advertisement dated Nov. 6, 1916, and opened Dec. 6, 1916, by Maj. Wildurr Willing, Corps of Engineers, St. Louis, Mo.

Name and address of bidders.	Price each boiler.	Number of boilers.	Price for entire plant.	Time of delivery.
1. Fowler-Wolfe Sheet Metal Works, Paducah, Ky.....		4	\$32,000	18 months.
2. Andrew W. Woodman & Co., West De Pere, Wis.....	\$9,065	6	54,390	180 days.

NOTE.—All proposals rejected; No. 1 on account of excessive time for delivery, and No. 2 on account of excessive price.

COAL.

Abstract of proposals for furnishing 30,000 tons of coal received in response to newspaper advertisement and opened Dec. 20, 1916, by Maj. Wildurr Willing, Corps of Engineers, St. Louis, Mo.

	Tons.	1. West Kentucky Coal Co., Sturgis, Ky.		2. Southern Coal, Coke & Mining Co., St. Louis, Mo.				3. Madison Coal Corporation, Chicago, Ill.	
		Tradewater coal.		Shiloh coal.		New Baden coal.		Paradise coal.	
		Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
At St. Louis, Mo.:									
Car delivery.....	1,000			\$1.83	\$1,830				
Steamboat delivery, aboard.....	5,000			2.00	10,000	\$2.00	\$10,000	\$2.00	\$10,000
Steamboat delivery, alongside.....	5,000			1.75	8,750	1.75	8,750	1.75	8,750
Barge delivery, first method.....	15,000			1.68	25,200	1.68	25,200	1.75	26,250
Barge delivery, second method.....	15,000							1.75	26,250
At Cairo, Ill.:									
Barge delivery, second method.....	15,000	\$2.75	\$41,250						
At Memphis, Tenn.:									
Steamboat delivery, aboard.....	1,500	3.25	4,875						
Steamboat delivery, alongside.....	1,500	3.00	4,500						
At Greenville, Miss.:									
Steamboat delivery, aboard.....	1,000	4.00	4,000						
Steamboat delivery, alongside.....	1,000	3.75	3,750						

No awards recommended; prices considered excessive (due to abnormal mining and transportation conditions).

ROCK ISLAND (ILL.), DISTRICT.

[Officer: Maj. Gen. A. Mackenzie, U. S. Army, retired.]

RIVERS AND HARBORS.

[Appropriation: Mississippi River from mouth of Missouri River to Minneapolis, Minn.]

Abstract of proposals received in response to advertisement for 30 days and opened by Maj. G. M. Hoffman, Corps of Engineers, at Rock Island, Ill., at 3 p. m., Oct. 18, 1916, for construction and repair of dams and shore protections on the upper Mississippi River.

Section, net allotment, and ratio of rock to brush in place.	Name and address of bidder.	Original estimated cost by hired labor with Government plant, compared with total contract cost under lowest bid.	Prices per cubic yard of material in place.			Price per 1,000 feet board measure plank matress in place.	Total cubic yards of material that can be placed under each bid.
			Rock.	Brush.	Average.		
(1) Bellevue to Sabula, Iowa; \$71,250; rock, 1; brush, 2.5.	3. Builders Sand & Gravel Co., Davenport, Iowa.	.....	\$1.65	\$0.70	\$0.97140	.....	73,347.8
	4. Kirchner Contracting Co., Dubuque, Iowa. ¹	.....	1.59	.66	.92570	\$39.00	76,967.7
	Hired-labor cost ² ... Total contract cost under bid No. 4.	\$89,572.44 73,328.16					
(2) Beattys Crossing to Keithsburg, Ill.; \$71,250; rock, 1; brush, 2.5.	3. Builders Sand & Gravel Co., Davenport, Iowa. ¹	.....	1.60	.70	.95714	.....	74,440.4
	4. Kirchner Contracting Co., Dubuque, Iowa.	.....	1.63	.71	.97290	39.00	73,234.7
	Hired-labor cost ³ ... Total contract cost under bid No. 3.	96,865.70 73,111.01					
(3) Quincy, Ill., to Hannibal, Mo.; \$71,250; rock, 1; brush, 2.5.	1. A. V. Fetter Co., Quincy, Ill. ¹	.....	1.71	.70	.98860	45.00	72,073.7
	Hired-labor cost ⁴ ... Total contract cost under bid No. 1.	93,783.16 72,979.72					
	2. Rust & Swift, St. Louis, Mo. ⁵	.....	1.69	.67	1.07800	42.50	66,094.7
(4) Louisiana, Mo., to Hamburg, Ill.; \$71,250; rock, 1; brush, 1.5.	1. A. V. Fetter Co., Quincy, Ill.	.....	1.71	.70	1.10400	45.00	64,538.0
	Hired-labor cost ⁶ ... Total contract cost under bid No. 2.	82,618.25 73,431.12					
	2. Rust & Swift, St. Louis, Mo. ⁵	.....	1.64	.69	.96140	41.00	49,405.7
(5) Hamburg to Grafton, Ill.; \$47,500; rock, 1; brush, 2.5.	1. A. V. Fetter Co., Quincy, Ill.	.....	1.69	.70	.98286	45.00	48,328.3
	Hired-labor cost ⁷ ... Total contract cost under bid No. 2.	61,758.88 49,130.43					
	2. Rust & Swift, St. Louis, Mo. ⁵	.....	1.64	.69	.96140	41.00	49,405.7

¹ Accepted and written contracts made.

² \$71,657.95, plus 25 per cent.

³ \$77,492.56, plus 25 per cent.

⁴ \$75,026.54, plus 25 per cent.

⁵ Accepted, but Marshall Rust, senior member of the firm of Rust & Swift, died before the award was made. Upon recommendation of James V. Swift, junior member of the firm, contracts were entered into with Miller Engineering Co., of Little Rock, Ark., the prices for material in place being those named in proposal of Rust & Swift.

⁶ \$66,094.60, plus 25 per cent.

⁷ \$49,407.10, plus 25 per cent.

ST. PAUL, (MINN.), DISTRICT.

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

RIVERS AND HARBORS.

Abstract of proposals for one 25-30 kilowatt, 560 r. p. m., 250-volt, direct-current, gasoline-electric generating set, issued Mar. 5, 1917, and opened Mar. 12, 1917.

[Appropriation: Mississippi River, mouth of Ohio River to Minneapolis, Minn.]

Name and address of bidder.	Amount.
Northwestern Electric Equipment Co., St. Paul, Minn.	\$3,762

Abstract of proposals for 400 cedar poles, 20 feet long, 5-inch tops, issued Mar. 20, 1917, and opened Mar. 30, 1917.

[Appropriation: Operating and care of canals and other works of navigation, indefinite.]

Name and address of bidder.	Amount.
Seavey Timber Co., Ball Club, Minn.	\$260
Coolidge-Schussler Co., Minneapolis, Minn.	300
MacGillis & Gibbs, Milwaukee, Wis.	300

Award made to Seavey Timber Co..

Abstract of proposal for 110,000 feet of Douglas-fir lumber, rough No. 1 common, issued Dec. 12, 1916, and opened Jan. 2, 1917.

[Appropriation: Mississippi and Leech Rivers, Minn.]

Name and address of bidder.	Price for lot.	F. o. b.
H. J. Miller Lumber Co., Seattle, Wash.	\$1,650.00	Napavine, Wash.
H. B. Waite Lumber Co., Minneapolis, Minn.	1,152.50	Granite Falls, Wash.
W. C. Stanton Lumber Co., St. Paul, Minn.	1,210.00	Napavine, Wash.
Waterway Mill Co., Tacoma, Wash.	1,320.00	Tacoma, Wash.
Duncan Lumber Co., Portland, Oreg.	1,375.00	Do.
Mutual Lumber Co., Minneapolis, Minn.	1,415.75	Tenino, Wash.
White Star Lumber Co., Whites, Wash.	1,305.00	Whites, Wash.
Pacific Fir Co., Seattle, Wash.	1,375.00	
McCormick Lumber Co., McCormick, Wash.	1,205.00	McCormick, Wash.
J. G. Newbegin, Tacoma, Wash.	1,199.00	Tenino, Wash.
Central Warehouse Co., St. Paul, Minn.	1,265.00	Monohom, Wash.
Lindstrom-Handforth, Tacoma, Wash.	1,257.50	Rainier, Wash.
Webster Lumber Co., Minneapolis, Minn.	1,155.00	Tenino, Wash.
Brooks Bros., St. Paul, Minn.	1,375.00	

Award made to the H. B. Waite Lumber Co.

Abstract of proposals for 8 cars Youghiogheny steam lump coal, f. o. b. Duluth, Minn., or Superior, Wis., issued Nov. 24, 1916, and opened Nov. 27, 1916.

[Appropriation: Mississippi River from mouth of Ohio River to Minneapolis, Minn., for St. Paul to Minneapolis, Minn.]

Name and address of bidder.	Amount per ton.
Berwind Fuel Co., Minneapolis, Minn.	\$5.50
Clarkson Coal & Dock Co., St. Paul, Minn.	7.00
Carnegie Fuel Co., St. Paul, Minn.	6.00
M. A. Hanna Coal Co., St. Paul, Minn.	7.00
Northern Coal & Dock Co., St. Paul, Minn.	7.00

Award made to Berwind Fuel Co.

Abstract of proposals for 8 cars of Youghiogheny steam lump coal f. o. b. Duluth, Minn., or Superior, Wis., issued Feb. 7, 1917, and opened Feb. 10, 1917.

[Appropriation: "Mississippi River from mouth of Ohio River to Minneapolis, Minn.," for "St. Paul to Minneapolis, Minn."]

Name and address of bidder.	Amount per ton.
Reeves Coal Co., Minneapolis, Minn.....	\$6.50
Berwind Fuel Co., Minneapolis, Minn.....	5.50
Clarkson Coal & Dock Co., St. Paul, Minn.....	6.00
Carnegie Fuel Co., St. Paul, Minn.....	5.50

Award made to Carnegie Fuel Co.

KANSAS CITY (MO.) DISTRICT.

[Officer: Brig. Gen. W. H. Bixby, United States Army (retired).]

RIVERS AND HARBORS.

Abstract of proposals for locomotives (Hartsburg, Mo.) dated Aug. 31, 1916, opened Sept. 11, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Kansas City Bridge Co., Kansas City, Mo.	2. Vulcan Iron Works, Wilkes-Barre, Pa.	3. Davenport Locomotive Works, Davenport, Iowa.	4. American Locomotive Co., New York, N. Y.	5. H. K. Porter Co., Pittsburgh, Pa.	6. Willis Shaw, Chicago, Ill.
1 locomotive, contractor's saddle-tank type, cylinders 9 by 14 inches, gauge 36 inches.....	\$1,500	\$3,000	\$2,950	\$2,800	\$3,400	\$975

¹ Second hand.

No. 1 awarded.

Abstract of proposal for engine (Boonville, Mo.), dated Sept. 20, 1916, opened Sept. 30, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. H. Chanon Co., Chicago, Ill.	2. Gray Motor Co., Detroit, Mich.	3. Climax Engineering Co., Clinton, Iowa.	4. Gillett Eaton & Squire, Lake City, Minn.
1 engine, gasoline, 4-cylinder, 4-cycle, 20 to 24 horsepower, with magneto, spark plugs, and wiring attached, equipped with plunger pump.....	\$281.00	\$236.00	\$325.00	\$265.00

Awarded No. 2.

Abstract of proposal for stone (St. Joseph, Mo.), dated Sept. 29, 1916, opened Oct. 9, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Quantity.	1. Savannah Stone Co., St. Joseph, Mo.	2. Newell & Stewart, St. Joseph, Mo.	3. Breckenridge Crushed Rock Co., Breckenridge, Mo.	4. Metropolitan Paving Co., St. Joseph, Mo.
25,000 cubic yards paving stone cubic yard..	\$1.25	\$1.80	\$1.33	¹ \$1.05

¹ Per ton.

Awarded No. 1.

Abstract of proposal for machine bolts (St. Joseph, Mo.), dated Oct. 2, 1916, opened Oct. 12, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Beck & Corbitt Iron Co., St. Louis, Mo.		2. The Pierce Co., Kansas City, Mo.		3. Geo. B. Carpenter & Co., Chicago, Ill.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
990 machine bolts, $\frac{1}{2}$ by 19 inches	\$0.1730	\$171.27	\$0.1796	\$177.80	\$0.2000	\$198.00
1,980 machine bolts, $\frac{3}{4}$ by 17 inches .....	.1210	239.58	.1270	251.46	.1375	272.25
6,600 machine bolts, $\frac{1}{2}$ by 19 inches .....	.1335	881.10	.1383	912.78	.1500	990.00
Total		1,291.95		1,342.04		1,460.25

Articles.	4. Gary Screw & Bolt Co., Chicago, Ill.		5. St. Louis Screw Co., St. Louis, Mo.		6. Jos. T. Ryerson & Son, St. Louis, Mo.		7. H. Channon Co., Chicago, Ill.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
990 machine bolts, $\frac{3}{4}$ by 19 inches	\$0.1575	\$155.93	\$0.1496	\$148.10	\$0.1995	\$197.51	.....	\$173.25
1,980 machine bolts, $\frac{3}{4}$ by 17 inches .....	.1114	220.57	.1058	209.48	.1410	279.18	.....	245.00
6,600 machine bolts, $\frac{3}{4}$ by 19 inches .....	.1213	800.58	.1152	760.32	.1535	1,013.10	.....	889.35
Total		1,177.08		1,117.90		1,489.79		1,307.60

Awarded No. 5.

Abstract of proposal for dynamite, etc. (Bagnell, Mo.), dated Oct. 6, 1916, opened Oct. 16, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Austin Powder Co., St. Louis, Mo.		2. Du Pont de Nemours Powder Co., St. Louis, Mo.		3. Atlas Powder Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
500 pounds dynamite, 60 per cent nitroglycerin	\$0.2252	\$111.60	\$0.25 $\frac{1}{2}$	\$128.75	\$0.25 $\frac{1}{2}$	\$128.75
300 exploders, electric .....	.0977	29.31	.1035	31.05	.1170	35.10
15 kegs powder, blasting FFF .....	.0155	23.25	.0155	23.25	.0165	24.75
500 feet fuse, waterproof .....	.0584	2.92	.0585	2.92	.0643	3.21
Total		167.08		185.97		191.81

Articles.	4. Aetna Explosives Co., St. Louis, Mo.		5. Hercules Powder Co., St. Louis, Mo.		6. Excelsior Powder Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
500 pounds dynamite, 60 per cent nitroglycerin	\$0.25 $\frac{1}{2}$	\$128.75	\$0.24	\$120.00	\$0.24 $\frac{1}{2}$	\$122.50
300 exploders, electric .....	.1053	31.59	.1035	31.05	.1053	31.59
15 kegs powder, blasting FFF .....	.0165	24.75	.0155	23.25	.0155	23.25
500 feet fuse, waterproof .....	.0643	3.21	.0584	2.92	.0064	3.20
Total		188.30		177.22		180.54

Awarded No. 1.

Abstract of proposal for lumber (Gasconade, Mo.) dated Oct. 21, 1916, opened Nov. 3, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. A. L. Houghton & Co., Kansas City, Mo.		2. Boeckeler Lumber Co., St. Louis, Mo.		3. Western States Lumber, Kansas City, Mo.		4. O'Neil Wiles Lumber Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
155 pieces long-leaf yellow pine lumber, rough, 4 by 8 inches by 12 feet (4,960 feet).....	\$19.00	\$94.24	\$19.00	\$94.24	\$18.50	\$91.76	\$17.00	\$84.00
730 pieces long-leaf yellow pine lumber, rough, 4 by 8 inches by 22 feet (77,000 feet).....	20.00	856.54	20.00	856.54	19.50	835.19	18.00	770.00
1,750 pieces long-leaf yellow pine lumber, rough, 3 by 8 inches by 22 feet (124,790 feet).....	20.00	1,540.00	20.00	1,540.00	19.50	1,501.50	18.00	1,386.00
Total.....		2,490.78		2,490.78		2,428.45		2,240.00

Articles.	5. Hogg-Harris St. Louis, Mo.		6. Henry O'Neil Lumber & Land Co., St. Louis, Mo.		7. Missouri Lumber & Land Exchange Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
155 pieces long-leaf yellow pine lumber, rough, 4 by 8 inches by 12 feet (4,960 feet).....	\$17.50		\$28.20	\$139.87	\$17.00	\$84.32
730 pieces long-leaf yellow pine lumber, rough, 4 by 8 inches by 22 feet (77,000 feet).....	17.50	\$2,183.75	29.70	\$3,558.86	18.50	792.36
1,750 pieces long-leaf yellow pine lumber, rough, 3 by 8 inches by 22 feet (124,790 feet).....	17.50		29.76		18.50	1,424.50
Total.....		2,183.75		3,698.73		2,301.18

Awarded No. 4.

Abstract of proposal for steering gear (Gasconade boat yard) dated Oct. 26, 1916, opened Nov. 6, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Schoellhorn-Albrecht Machine Co., St. Louis, Mo.	2. S. J. Gardner Foundry Co., New Albany, Ind.	3. Chas. Barnes Co., Cincinnati, Ohio.
1 steam steering gear with full equipment, ram type.....	\$1,200	\$370	\$350

Awarded No. 3.

Abstract of proposal for piling (Gasconade, Mo.), dated Feb. 20, 1917, opened Mar. 2, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, Kansas City, Mo.

Articles.	1. Long Bell Lumber Co., Kansas City, Mo.		2. C. I. Cash, De Quincy, La.		3. Boeckeler Lumber Co., St. Louis, Mo.		4. O'Neil-Wiles Lumber Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
1,050 piles, 40 to 66 feet long, 53,200 linear feet.....	\$0.091	\$4,849.00	\$0.07½	\$3,990.00	\$0.1148	\$6,107.36	\$0.105	\$5,635.50

Abstract of proposal for piling (Gasconade Mo.), dated Feb. 20, 1917, opened Mar. 2, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, Kansas City, Mo.—Continued.

Articles.	5. Henry O'Neil Lumber & Land Co., St. Louis, Mo.		6. Western States Lumber Co., Kansas City, Mo.		7. A. L. Houghton & Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
1,050 piles, 40 to 66 feet long, 53,200 linear feet.....	\$0.104	¹ \$5,522.80	\$0.104	² \$5,563.00	\$0.078	² \$4,196.00

Articles.	8. A. L. Houghton & Co., Kansas City, Mo.		9. P. E. Hammons Co. (Inc.), Beaumont, Tex.		10. Western States Lumber Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
1,050 piles, 40 to 66 feet long, 53,200 linear feet.....	\$0.07½	¹ \$3,990.00	\$0.079	¹ \$4,242.00	\$0.07½	¹ \$3,990.00

¹ Loblolly yellow pine.

² Cypress.

Awarded No. 7 cypress.

Awarded No. 10 loblolly yellow pine.

Abstract of proposal for rope (Gasconade, Mo.) dated Dec. 30, 1917, opened Jan. 15, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. A. Leschen & Sons Rope Co., St. Louis, Mo.		2. St. Louis Cordage Mills, St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.
22,950 pounds rope, manila bolt, 3-strand, from ¾ to 2½ inch diameter..... pound..	\$0.25	\$5,737.50	\$0.29	\$6,655.50

Awarded No. 1.

Abstract of proposal for launches (Gasconade, Glasgow, and Jefferson City, Mo.) dated Jan. 6, 1917, opened Jan. 16, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Jos. Dingle Boat Works, St. Paul, Minn.	2. Dubuque Boat & Boiler Works, Dubuque, Iowa.	3. Gillett, Eaton & Squire, Lake City, Minn.	4. Dunphy Boat Manufacturing Co., Eau Claire, Wis.	5. John Hafer, Spirit Lake, Iowa.	6. Belle Isle Boat & Engine Co., Detroit, Mich.
3 launches, length 30 feet, beam 6 feet, draft 20 inches, 4-cycle engines, speed 14 miles in dead water.....each..	\$1,490	\$2,700	\$1,340	\$1,790	\$1,850	\$2,325
Total.....	4,470	8,100	4,020	5,370	5,550	6,975

Awarded No. 1.

Abstract of proposal for explosives (Gasconade, Mo.) dated Jan. 18, 1917, opened Jan. 29 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Excelsior Powder Manufacturing Co., Kansas City, Mo.		2. Aetna Explosive Co., St. Louis, Mo.		3. Atlas Powder Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
400 kegs blasting powder.....keg..	\$1.28	\$512.00	\$1.246	\$498.48	\$1.475	\$590.00
2,000 pounds dynamite.....hundredweight..	22.64	452.80	22.7849	455.70	23.75	475.00
300 fuses, 20 feet.....100 feet..	10.32	30.96	10.35	31.05	.....	31.59
300 fuses, 12 feet.....do.....	7.62	22.86	7.65	22.95	.....	23.38
Total.....	.....	1,018.62	.....	1,008.18	.....	1,119.92

Articles.	4. E. I. Du Pont Co., St. Louis, Mo.		5. Austin Powder Co., St. Louis, Mo.		6. Hercules Powder Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
400 kegs blasting powder.....keg..	\$1.475	\$590.00	\$1.28	\$512.00	\$1.375	\$550.00
2,000 pounds dynamite.....hundredweight..	24.50	490.00	23.14	462.80	23.67	473.40
300 fuses, 20 feet.....100 feet..	10.35	31.05	9.57	28.71	10.35	31.05
300 fuses, 12 feet.....do.....	.....	22.95	7.08	21.24	7.65	22.95
Total.....	.....	1,134.00	.....	1,024.75	.....	1,077.40

Awarded No. 5.

Abstract of proposal for feed pumps (Gasconade boat yard) dated Jan. 19, 1917, opened Jan. 29, 1917, by Lieut. Col. F. J. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. H. R. Worthington, Kansas City, Mo.	2. M. T. Davidson Co., Nas-sau, N. Y.	3. National Steam Pump Co., Upper Sandusky, Ohio.	4. Chas. Barnes Co., Cincinnati, Ohio.	5. A. S. Cameron Steam Pump Works, St. Louis, Mo.
	4 pumps, boiler feed, 8-inch stroke, steam cylinder 5 inches diameter, water cylinder 3½ inches diameter.....	\$672.00	\$700.00	\$342.00	\$460.00	$563.76
1 pump, as above, 8-inch stroke, 6-inch steam cylinder, 4-inch water cylinder.....	192.50	210.00	106.88	175.00	147.81
Total.....	864.50	910.00	448.88	635.00	711.57

Awarded No. 2.

Abstract of proposal for cement (Gasconade boat yard) dated Jan. 19, 1917, opened Feb. 6, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Kansas Cement & Material Co., Kansas City, Mo.		2. Kansas City Portland Cement Works, Kansas City, Mo.		3. Union Sarsd & Material Co., St. Louis, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
6,000 barrels cement (in barrels) . . per barrel..	\$1.45	\$8,700.00	\$1.35	\$8,100.00	\$1.35	\$8,100.00

Articles.	4. Continental Portland Cement Co., St. Louis, Mo.		5. Iola Portland Cement Co., Kansas City, Mo.		6. Monarch Portland Cement Co., Humboldt, Kans.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
6,000 barrels cement (in barrels) . . per barrel..	\$1.35	\$8,100.00	\$1.45	\$8,700.00	\$1.35	\$8,100.00

To conform to Government specifications No. 33 for Portland cement. Awarded equally to Nos. 3 and 4.

Abstract of proposal for strand (Gasconade boat yard) dated Jan. 22, 1917, opened Feb. 6, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Broderick & Bascom Rope Co., St. Louis, Mo.		2. A. Leschen & Sons Rope Co., St. Louis, Mo.		3. Upson-Walton Co., Cleveland, Ohio.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
450,000 linear feet strand, galvanized, $\frac{3}{8}$ -inch diameter, composed of 7 No. 11 wires.....	100 feet. \$1.38	\$6,210.00	1,000 ft. \$16.42	\$7,389.00	100 feet. \$1.396	\$6,282.00

Articles.	4. Indiana Steel & Wire Co., Munice, Ind.		5. Macomber & Whyte Rope Co., Kenosha, Wis.		6. H. Channon Co., Chicago, Ill.		7. American Steel & Wire Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
450,000 linear feet strand, galvanized, $\frac{3}{8}$ inch diameter, composed of 7 No. 11 wires..	1,000 ft. \$14.84	\$6,678.00	100 feet. \$1.67	\$7,515.00	100 feet. \$1.75	\$7,875.00	100 feet. \$1.594	\$7,194.38

Awarded No. 1.

Abstract of proposal for standard revetment (Missouri River at Fishing River Bend) opened Apr. 9, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Stanton-Jones Construction Co., Leavenworth, Kans.		2. J. W. McMurry Contracting Co., Kansas City, Mo.		3. Estate of Marshall Rust, deceased, Pilot Grove, Mo.		4. Kansas City Bridge Co., Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
17,000 linear feet, standard revetment, per square:								
14,620 squares mattress	\$8.85	\$129,387.00	\$8.25	\$120,615.00	\$7.45	\$108,919.00	\$7.30	\$106,726.00
8,160 squares paving...	14.11	115,137.60	11.75	95,880.00	11.15	90,984.00	10.80	88,128.00
Total.....		244,524.60		216,495.00		199,903.00		194,854.00

Awarded No. 4.

Abstract of proposal for standard revetment (Missouri River at Wayne City and Liberty Bends) opened May 9, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Kansas City Bridge Co., Kansas City, Mo.		2. Estate of Marshall Rust, deceased, Pilot Grove, Mo.	
	Price.	Amount.	Price.	Amount.
8,000 linear feet standard revetment, per square:				
6,880 squares mattress.....	\$7.20	\$49,536.00	\$7.00	\$47,160.00
3,640 squares paving.....	10.60	38,584.00	10.80	37,492.00
Total.....		88,120.00		84,652.00

Awarded No. 2.

Abstract of proposal for clump dikes (Little River Bend, Missouri River) opened May 21, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Kansas City Bridge Co., Kansas City, Mo.		2. J. W. McMurry Contracting Co. Kansas City, Mo.	
	Price.	Amount.	Price.	Amount.
4,700 feet 2-row, 3-pile clump dike:				
Mattress, 3,960 squares.....square	\$12.95	\$51,282.00	\$13.75	\$54,450.00
Paving, 144 squares.....do	15.95	2,296.80	15.00	2,160.00
Piles and stringers (137,000 linear feet).....linear foot	.52	71,240.00	.55	75,350.00
Curtain and cribbing poles (100 cords).....cord	20.00	2,000.00	21.00	2,100.00
Total.....		126,818.80		134,060.00

All bids rejected account of excessive prices.

Abstract of proposal for gasoline motors (Gasconade, Mo.), dated June 9, 1917, opened June 19, 1917, by Brig. Gen. Wm. H. Bixby (retired).

Articles.	1. Missouri Engine Co., St. Louis, Mo.		2. Red Wing Motor Co., Red Wing, Minn.		3. Gray Motor Co., Detroit, Mich.		4. H. Channon Co., Chicago, Ill.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
2 Only motors, gasoline, marine, Gray model F or equal, 12 to 15 horsepower.....	\$450.00	\$900.00	\$340.00	\$680.00	\$307.00	\$614.00	\$348.25	\$696.50
<i>Alternate bid.</i>								
2 Only motors, gasoline, marine, 20 to 24 horsepower.....	675.00	1,350.00	370.00	740.00	415.00	830.00	435.00	870.00

Awarded No. 2.

COAL.

Abstract of proposal for coal (Gasconade, Bernheimer, and South Point, Mo.), dated Oct. 17, 1917, opened Oct. 27, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Miller Coal & Coke Co., St. Louis, Mo.		2. Waverly Coal Co., Kansas City, Mo.		3. Star Coal Co., Kansas City, Mo.		4. Midland Coal Co., Kansas City, Mo.	
	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.	
10 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity.....	¹ \$1.60	² \$2.50	³ \$1.85	⁴ \$2.85			⁵ 2.50	

¹ 6-inch screen. ² 3-inch screen. ³ 2-inch screen. ⁴ 5-inch screen. ⁵ 1½-inch screen.

Awarded No. 1.

Abstract of proposal for coal (Gasconade boat yard), dated Mar. 7, 1917, opened Mar. 26 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.

Articles.	1. Rutledge & Taylor Coal Co., St. Louis, Mo.		2. Graves Coal & Coke Co., St. Louis, Mo.		3. Consolidated Coal Co. of St. Louis, Mo.		4. Central Coal & Supply Co., Moberly, Mo.	
	Per ton.	Per ton.	Per ton.	Per ton.	Per ton.	Per ton.	Per ton.	
20 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity:								
6-inch lump.....	\$2.50	\$1.45	\$1.60	\$3.50				
3-inch lump.....	2.25	² 1.30	1.50	3.50				
Run of mine.....	2.25	1.20	1.50	No bid.				

Abstract of proposal for coal (Gasconade boat yard), dated Mar. 7, 1917, opened Mar. 26, 1917, by Lieut. Col. J. F. McIndoe, Corps of Engineers, at Kansas City, Mo.—Con.

Articles.	5. Donk Bros. Coal & Coke Co., St. Louis, Mo.	6. Boehmer Coal Co., St. Louis, Mo.	7. Miller Coal & Coke Co., St. Louis, Mo.
20 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity:	<i>Per ton.</i>	<i>Per ton.</i>	<i>Per ton.</i>
6-inch lump.....	\$1.60	No bid.	¹ \$1.20
3-inch lump.....	1.50	² \$1.19	1.15
Run of mine.....	1.40	1.09	No bid.

¹ 8-inch lump.

² 2-inch lump.

Awarded No. 7, \$1.20 for 8-inch lump.

Abstract of proposal for coal (Gasconade, Mo.), dated June 28, 1916, opened July 8, 1916, by Lieut. Col. J. F. McIndoe, Corps of Engineers, Kansas City, Mo.

Articles.	1. Interstate Coal Co., Kansas City, Mo.	2. Missouri & Illinois Coal Co., St. Louis, Mo.	3. Star Coal Co., Kansas City, Mo.	4. Graves Coal & Coke Co., St. Louis, Mo.	5. Miller Coal & Coke Co., St. Louis, Mo.
75 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity, and of the best quality produced by the district in which it is mined:					
6-inch lump.....ton.....		\$1.25		\$1.25	\$1.04
3-inch lump.....do.....	\$1.45	1.05	\$1.28	1.20	.94
Run of mine.....do.....	1.20	1.00		.95	.90

Awarded No. 5 at 94 cents ton, 3-inch lump.

Articles.	6. Devoy & Kuhn Coal & Coke Co., St. Louis, Mo.	7. Donk Bros. Coal & Coke Co., St. Louis, Mo.	8. P. R. Sinclair Coal Co., Kansas City, Mo.	9. Maguire Coal Co., St. Louis, Mo.	10. Boehmer Coal Co., St. Louis, Mo.
75 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity, and of the best quality produced by the district in which it is mined:					
6-inch lump.....ton.....	\$1.10	\$1.10	\$1.09	\$1.20	\$1.03
3-inch lump.....do.....	1.00	1.00	.99	1.20	1.03
Run of mine.....do.....	.90	.90	.99		

Articles.	11. Geo. G. Pope & Co., St. Louis, Mo.	12. Western Coal & Mining Co., Kansas City, Mo.	13. Southern Coal, Coke & Mining Co., St. Louis, Mo.	14. Rutledge & Taylor Coal Co., St. Louis, Mo.
75 cars coal, bituminous, standard screened lump, freshly mined, free from dirt, slate, slack, breeze, or other objectionable impurity, and of the best quality produced by the district in which it is mined:				
6-inch lump.....ton.....	\$1.50	\$1.35	\$1.15	\$1.15
3-inch lump.....do.....	1.50	1.35	1.10	1.15
Run of mine.....do.....	1.15	1.25	.97½	1.00

F. o. b. mines having 25 cents freight rate to East St. Louis, Ill.

NASHVILLE (TENN.) DISTRICT.

[Officer: Maj. Jarvis J. Bain, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering 245,000 feet yellow-pine lumber for cofferdam, Lock E, Cumberland River, opened Feb. 6, 1917, by Maj. Lytle Brown, Corps of Engineers.

[Cumberland River below Nashville, Tenn. Continuing improvement.]

Name and address of bidder.	Delivered on river siding, Fox Bluff, Tenn.		Delivered on river siding, Kuttawa, Ky.		Remarks.
	Per M feet b. m.	Amount.	Per M feet b. m.	Amount.	
1. Nicola, Stone & Myers Co., Hattiesburg, Miss.	\$25.25	\$6,186.25	\$24.56	\$6,017.20	Accepted bid.
2. Causey Yellow Pine Co., Hattiesburg, Miss.	21.60	5,292.00	20.90	5,120.50	
3. G. Elias & Bro., Buffalo, N. Y.....	25.70	6,296.50	26.25	6,431.25	
4. Great Southern Lumber Co., Bogalusa, La.	25.78	6,316.10	25.08	6,144.60	
5. F. L. Sanford, Zona, La.....	30.97	7,587.65	29.95	7,337.75	
6. Babcock Lumber Co., Pittsburgh, Pa..	25.75	6,308.75	26.25	6,431.25	
7. Hint n Bros. Lumber Co., Lumberton, Miss.	25.06	6,139.70	25.30	6,198.50	
8. Watkins-Gray Lumber Co., Hattiesburg, Miss.	24.40	5,978.00	23.40	5,733.00	
9. W. A. Wilson & Sons, Wheeling, W. Va.	.....	.....	25.00	6,125.00
10. J. M. Stevenson, Alexander City, Ala..	30.00	7,350.00	33.00	8,085.00	
11. Enchs & Wortman, Jackson, Miss....	23.60	5,782.00	22.75	5,573.75	
12. Firm Lumber Co., Hattiesburg, Miss..	25.40	6,223.00	25.70	6,296.50	
13. McLeod Lumber Co., Hattiesburg, Miss	24.00	5,880.00	24.00	5,880.00	
14. Devesse-ogers Lumber Co., Philadelphia, Pa.	23.70	5,806.50	23.00	5,635.00	

Abstract of proposals for constructing concrete locks E and F, Cumberland River, received in response to advertisement, and opened at 11 o'clock a. m., Sept. 28, 1916, by Maj. Lytle Brown, Corps of Engineers, Nashville, Tenn.

[Cumberland River, Tenn, and Ky. Continuing improvement below Nashville.]

Items.	Quantities.		I. George C. Hodgson, Dayton, Ohio.			
	Lock E.	Lock F.	Lock E (both locks).		Lock F (both locks).	
			Unit price.	Amount.	Unit price.	Amount.
Cofferdam, linear feet.....	632	664	\$57.00	\$36,024.00	\$57.00	\$37,848
Earth excavation, cubic yards...	66,390	36,650	.50	33,195.00	.40	14,660
Rock excavation, cubic yards....	17,150	36,070	3.25	55,737.50	1.25	45,025
Back fill, cubic yards.....	10,650	24,000	1.00	10,650.00	.50	12,000
Concrete, cubic yards.....	17,860	18,700	9.00	160,740.00	8.50	158,950
Puddling, cubic yards.....	160	240	2.00	320.00	2.00	480
Bolt holes, linear feet.....	600	700	3.00	1,800.00	3.00	2,100
Concrete paving, square yards...	2,870	5,220	5.50	15,785.00	4.90	25,578
Rinrap, square yards.....	9,400	15,500	1.40	13,160.00	1.40	21,700
Winnow derrick stone, short tons.....	2,200	2,600	1.00	2,200.00	1.00	2,600
Broken stone for roads, cubic yards.....	.....	660	.....	.....	2.50	1,650
Rubble masonry, cubic yards.....	100	170	5.00	500.00	5.00	850
Relaying water main, linear feet.....	.....	200	.....	.....	1.00	200
Relaying sewer pipe, linear feet.....	.....	600	.....	.....	.50	300
Placing ironwork, tons.....	73	73	30.00	2,190.00	30.00	2,190
Tile gages, linear feet.....	56	53	5.00	280.00	5.00	265
Additional lumber for cofferdam, foot board measure.....	.....	40,000	.....	.....	40.00	1,600
Additional filling for cofferdam, cubic yards.....	.....	1,200	.....	.....	.25	300
House, complete.....	1	.....	3,000	3,000.00	.....	.....
Total.....	.....	.....	.....	335,581.50	.....	328,296

Abstract of proposals for constructing concrete locks E and F, Cumberland River, received in response to advertisement, and opened at 11 o'clock a. m., Sept. 28, 1916, by M. J. Lytle Brown, Corps of Engineers, Nashville, Tenn.—Continued.

Items.	2. Mason & Hanger Co., Lexington, Ky. ¹				Office estimate of cost of construction. ²			
	Lock E (one lock).		Lock F (one lock).		Lock E (one or both locks).		Lock F (one or both locks).	
	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.	Unit price.	Amount.
Cofferdam, linear feet.....	\$50.00	\$31,600	\$50.00	\$33,200	\$35.00	\$22,120.00	\$35.00	\$23,240
Earth excavation, cubic yards.....	.90	59,751	.80	29,320	.50	33,195.00	.50	18,325
Rock excavation, cubic yards.....	2.50	42,875	1.60	57,632	2.00	34,300.00	2.00	72,040
Back fill, cubic yards.....	.60	6,330	.50	12,000	.50	5,325.00	.50	12,000
Concrete, cubic yards.....	8.00	142,880	7.60	142,120	7.50	133,950.00	7.50	140,250
Puddling, cubic yards.....	2.00	320	2.00	480	1.50	240.00	1.50	360
Bolt holes, linear feet.....	.25	150	.25	175	1.00	600.00	1.00	700
Concrete paving, square yards.....	2.00	5,740	2.00	10,440	2.25	6,457.50	2.25	11,745
Riprap, square yards.....	3.50	32,900	3.00	46,500	1.50	14,100.00	1.50	23,250
Windrow derrick stone, short tons.....	2.00	4,400	2.00	5,200	.75	1,650.00	.75	1,950
Broken stone for roads, cubic yards.....			2.00	1,320			2.00	1,650
Rubble masonry, cubic yards.....	5.00	500	5.00	850	5.00	500.00	5.00	850
Relaying water main, linear feet.....			1.00	200				40
Relaying sewer pipe, linear feet.....			1.00	600				60
Placing ironwork, tons.....	30.00	2,190	30.00	2,190	30.00	2,190.00	30.00	2,190
Tile gages, linear feet.....	4.00	224	4.00	212	2.00	112.00	2.00	106
Additional lumber for cofferdam, feet board measure.....			50.00	2,000			50.00	2,000
Additional filling for cofferdam, cubic yards.....			2.00	2,400			.50	600
House, complete.....	1,500	1,500			2,000	2,000.00		
Total.....		331,420		346,839		256,739.50		311,356

¹ Signer of bid failed to file evidence of authority and failed to comply with paragraph 92 of the specifications. Recommend waiving informality and awarding contract for Lock F.

² 15 per cent was added for profit of contractor, in order to make unit prices comparable with those of bidders.

Abstract of proposals for constructing concrete Lock F, Cumberland River, received in response to advertisement, and opened at 11 o'clock a. m. Jan. 30, 1917, by Maj. Lytle Brown, Corps of Engineers, Nashville, Tenn.

[Cumberland River, Tenn. and Ky., continuing improvements below Nashville.]

Items.	Quantities.	1. Mason & Hanger Co., Lexington, Ky. ¹		2. Office estimate of cost of construction. ²	
		Unit price.	Amount.	Unit price.	Amount.
Cofferdam..... linear feet.....	664	\$60.00	\$39,840	\$35.00	\$23,240
Earth excavation..... cubic yards.....	36,650	.80	29,320	.50	18,325
Rock excavation..... do.....	35,020	2.00	72,040	2.00	72,040
Backfill..... do.....	21,000	.50	12,000	.50	12,000
Concrete..... do.....	18,700	8.00	149,600	7.50	140,250
Puddling..... do.....	240	2.00	480	1.50	360
Bolt holes..... linear feet.....	700	.50	350	1.00	700
Concrete paving..... square yards.....	5,220	2.00	10,440	2.25	11,745
Riprap..... do.....	15,500	3.00	46,500	1.50	23,250
Windrow derrick stone..... short tons.....	2,600	2.00	5,200	.75	1,950
Broken stone for roads..... cubic yards.....	660	2.00	1,320	2.50	1,650
Relaying water main..... linear feet.....	200	1.00	200	.20	40
Relaying sewer pipe..... do.....	600	1.00	600	.10	60
Placing ironwork..... tons.....	73	35.00	2,555	30.00	2,190
Rubble masonry..... cubic yards.....	170	5.00	850	5.00	850
Additional lumber for cofferdam..... feet. b. m.....	40,000	50.00	2,000	50.00	2,000
Additional filling for cofferdam..... cubic yards.....	1,200	2.00	2,400	.50	600
Tile gages..... linear feet.....	53	4.00	212	2.00	106
Total.....			375,907		311,356

¹ Signer of bid failed to file evidence of authority and failed to comply with paragraph 92 of the specifications. Recommend rejection of bid.

² 15 per cent was added for profit of contractor, in order to make unit prices comparable with those of bidders. The figures here given are those of September, 1916, estimate. On account of in reased market prices since that time, the office estimate should be in reased about 8½ per cent, making the revised office estimate \$337,302.33.

Abstract of proposals for furnishing and delivering about 411,000 feet yellow-pine lumber for cofferdam, Lock F, Cumberland River. Opened Mar. 20, 1917, by Maj. Lytle Brown, Corps of Engineers.

[Cumberland River below Nashville, Tenn. Continuing improvement.]

Name and address of bidder.	Delivered on river siding, Kuttawa, Ky.		
	Feet b. m.	Per M feet b. m.	Amount.
1. Norvell & Wallace, Nashville, Tenn.....	411,000	\$26.30	\$10,809.30
2. De Weese-Rodgers Lumber Co., Philadelphia, Miss:			
36 pieces, 8 x 10—26.....	6,240	25.25	157.56
440 pieces, 8 x 10—20.....	58,667	22.25	1,305.34
50 pieces, 8 x 10—18.....	6,000	22.25	133.50
62 pieces, 8 x 8—30.....	9,920	26.75	265.36
16 pieces, 8 x 8—22.....	1,877	22.75	42.70
530 pieces, 8 x 8—20.....	56,533	21.75	1,229.59
52 pieces, 8 x 8—16.....	4,437	21.75	96.50
2,900 pieces, 8 x 8—10.....	154,667	21.75	3,364.01
1,380 pieces, 2 x 12—30.....	82,800	31.25	2,587.50
100 pieces, 2 x 12—20.....	4,000	26.25	105.00
220 pieces, 2 x 12—16.....	7,040	24.75	174.24
80 pieces, 2 x 12—14.....	2,240	24.75	55.44
100 pieces, 2 x 12—12.....	2,400	24.75	59.40
100 pieces, 1 x 12—20.....	2,000	28.00	56.00
170 pieces, 1 x 12—14.....	2,380	28.00	66.64
280 pieces, 1 x 12—16.....	4,480	28.00	125.44
120 pieces, 1 x 12—12.....	1,440	28.00	40.32
150 pieces, 2 x 6—20.....	3,000	23.75	71.25
164 pieces, 1 x 6—14.....	1,148	27.25	31.28
80 pieces, 1 x 6—10.....	400	27.25	10.90
	411,669	.....	9,977.97
3. Causey Yellow Pine Co., Hattiesburg, Miss.....	411,000	23.15	9,514.65
4. John W. Zuber, Atlanta, Ga.....	411,000	33.00	13,563.00
5. J. M. Steverson, Alexander City, Ala.....	411,000	27.70	11,384.70
6. Great Southern Lumber Co., Bogalusa, La.....	411,000	29.90	11,919.00
7. Watkins-Gray Lumber Co., Hattiesburg, Miss.....	411,000	21.40	8,795.40
8. Firm Lumber Co., Hattiesburg, Miss.....	411,000	25.90	10,644.90
9. G. Elias & Bro., Buffalo, N. Y.....	411,000	27.50	11,302.50

¹ Accepted bid.

PITTSBURGH (PA.) DISTRICT.

[Officer: Lieut. Col. H. W. Stickle, United States Army, retired.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering lock-gate operating machinery for Lock 2, Monongahela River, received in response to advertisement, opened at Pittsburgh, Pa., at 12 M. (eastern standard time) Feb. 14, 1917, by Lieut. Col. Edgar Jadwin, Corps of Engineers.

[Appropriation: Operating and care of canals and other works of navigation (indefinite), as applied to Monongahela River.]

Name and address of bidders.	Amount.
1. Chas. Hegewald Co., New Albany, Ind.....	¹ \$9,179.00
2. J. & J. B. Milholland Co., Pittsburgh, Pa. ²	8,415.00
3. S. B. Harding, Chicago, Ill.....	11,870.00

¹ Certified check for \$918 in lieu of bond.

² Recommended for acceptance.

Informalities: Bids Nos. 1 and 2, no authority furnished for the signer to sign for the company. Bid No. 2, amount of bid inserted in figures on one copy of bid only.

JANUARY 10, 1917.

Abstract of proposals for furnishing and delivering 2 air compressors and 1 water turbine, complete, with gear drive, at Lock No. 3, Monongahela River, received in response to advertisement, opened at Pittsburgh, Pa., at 12 m. (eastern standard time) Dec. 29, 1916, by Lieut. Col. Edgar Jadwin, Corps of Engineers.

[Appropriation: Operating and care of canals and other works of navigation (indefinite), as applied to Monongahela River.]

Name and address of bidder.	Amount.
1. Hall Steam Pump Co., Pittsburgh, Pa.	\$5,995.00

¹ Recommended for acceptance.

Informalities: Official title of signer not stated. No evidence of authority to sign for the company. In proposal the bidder states "with exception of date of delivery."

WHEELING (W. VA.) DISTRICT.

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

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering structural steel, steel castings, iron castings, etc. (valve casings, shafts, blades, etc.), for Dam No. 21, Ohio River, opened at Wheeling, W. Va., on Sept. 28, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Name and address of bidders.	32 river-wall valves, complete.
1. J. & J. B. Milholland Co., Pittsburgh, Pa.	\$8,642.00
2. Penn Bridge Co., Beaver Falls, Pa.	7,480.00
3. Chas. Hegewald Co., New Albany, Ind.	7,499.00
4. S. B. Harding, Chicago, Ill.	7,970.00
5. Independent Bridge Co., Pittsburgh, Pa.	8,900.00

¹ Accepted.

Abstract of proposals for furnishing and delivering structural steel, forgings, etc., for wickets, Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Aug. 22, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. J. & J. B. Milholland Co. Pittsburgh, Pa.	2. Chas. Hegewald Co., New Albany, Ind.	3. Independent Bridge Co., Pittsburgh, Pa.	4. F. H. Zimmers, Pittsburgh, Pa.
LOT A.				
Item 1. Structural steel, Dam 21	\$9,890.00	\$10,190.99	\$8,890.00	\$8,361.16
Item 2. Structural steel, Dam 22	7,180.00	7,209.00	6,180.00	5,909.43
Item 3. Structural steel, Dam 24	6,990.00	6,999.00	5,990.00	5,738.14
Total	24,060.00	24,398.99	21,060.00	20,008.73
LOT B.				
Item 1. Forgings, Dam 21	2,734.00	1,849.00	2,790.00	1,949.93
Item 2. Forgings, Dam 22	1,478.00	1,039.00	1,580.00	1,408.02
Item 3. Forgings, Dam 24	1,441.00	1,009.00	1,495.00	1,367.24
Total	5,653.00	3,897.00	5,865.00	4,725.19
LOT C.				
Item 1. Steel castings, Dam 21	5,628.00	8,579.00	5,795.00	11,156.17
Item 2. Steel castings, Dam 22	1,143.00	1,659.00	1,225.00	1,202.48
Item 3. Steel castings, Dam 24	1,011.00	1,609.00	1,080.00	1,167.12
Total	7,782.00	11,847.00	8,100.00	13,525.77
LOT D.				
Item 1. Bolts and rods, Dam 21	1,940.00	2,712.99	2,010.00	2,488.42
Item 2. Bolts and rods, Dam 22	1,006.00	1,447.99	1,075.00	1,350.59
Item 3. Bolts and rods, Dam 24	995.25	1,405.99	1,050.00	1,314.86
Total	3,941.25	5,566.97	4,135.00	5,153.87

No. 1 for lot D accepted.

Bids for lots A, B, and C rejected as excessive.

Abstract of proposals for furnishing and delivering white-oak timber for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., Aug. 18, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	Quantity.	1. Hood Lumber Co., Wheeling, W. Va.		2. Chas E. Lane Co., Parkersburg, W. Va.		3. Meadow River Lumber Co., RAINELLE, W. Va.		4. G. Elias & Bro., Inc., Buffalo, N. Y.		5. Parkersburg Mill Co., Parkersburg, W. Va.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
WHITE-OAK TIMBER.											
	<i>Ft. b. m.</i>										
Dam No. 21.....	207,626			\$32.50	\$6,747.85	\$37	\$7,682.16	\$35.80	\$7,433.01	\$40	\$8,305.04
Dam No. 22.....	111,875	\$38	\$4,251.25	32.50	3,635.94	37	4,139.38	35.80	4,005.13	40	4,475.00
Dam No. 24.....	108,765	38	4,133.07	32.50	3,534.86	37	4,024.31	35.80	3,893.79	40	4,350.60

No. 2 accepted.

Abstract of proposals for furnishing and delivering structural steel, forgings, steel castings, etc., for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Sept. 2, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. Chas. Hegewald Co., New Albany, Ind.		2. F. H. Zimmers, Pittsburgh, Pa.		3. Edw. F. Terry, Manufacturing Co., New York, N. Y.		4. J. & J. B. Milholland Co., Pittsburgh, Pa.	
	Delivery, 135 days.	Delivery, 135 days.	Delivery, 210 days.	Delivery, 135 days.	Delivery, 210 days.	Delivery, 135 days.	Delivery, 210 days.	
LOT A.								
<i>Item 1.</i>								
Structural steel for Dam No. 21, including drilling and punching.....	\$10,191.00	\$8,237.73	\$8,237.73	.....	\$8,379.48	\$9,100.00	\$7,100.00
Structural steel for Dam No. 21, omitting drilling and punching.....	.....	7,415.23	7,415.23	\$7,742.15	.....	.....	.....
<i>Item 2.</i>								
Structural steel for pass wickets for Dam No. 22, including drilling and punching.....	7,836.00	6,241.67	6,241.67	.....	6,470.39	6,900.00	5,687.00
Structural steel for pass wickets for Dam No. 22, omitting drilling and punching.....	.....	5,658.17	5,658.17	5,881.82	.....	.....	.....
<i>Item 3.</i>								
Structural steel for Dam No. 24, including drilling and punching.....	7,836.00	6,241.67	6,241.67	.....	6,470.39	7,000.00	5,687.00
Structural steel for Dam No. 24, omitting drilling and punching.....	.....	5,658.17	5,658.17	5,881.82	.....	.....	.....
<i>Item 4.</i>								
Structural steel for wear wickets for Dam No. 22, including drilling and punching.....	1,273.00	1,055.86	1,055.80	.....	1,097.45	1,300.00	1,060.00
Structural steel for wear wickets for Dam No. 22, omitting drilling and punching.....	.....	945.55	945.55	1,018.00	.....	.....	.....
Total, including drilling, etc.....	27,136.00	21,776.87	21,776.87	.....	22,417.71	24,300.00	19,534.00
Total, omitting drilling, etc.....	.....	19,677.12	19,677.12	20,523.79	.....	.....	.....

Abstract of proposals for furnishing and delivering structural steel, forgings, steel castings, etc., for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Sept. 2, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	5. Independent Bridge Co., Pittsburgh, Pa.		6. S. B. Harding, Chicago, Ill.		7. American Bridge Co., Pittsburgh, Pa.
	Delivery, 135 days.	Delivery, 210 days.	Delivery, 135 days.	Delivery, 210 days.	Delivery, 210 days.
LOT A.					
Item 1.					
Structural steel for Dam No. 21, including drilling and punching.....	\$8,900.00	\$6,900.00	\$7,393.00	\$7,393.00	\$5,800.00
Structural steel for Dam No. 21, omitting drilling and punching.....			6,881.50	6,881.50	
Item 2.					
Structural steel for pass wickets for Dam No. 22, including drilling and punching..	6,700.00	5,170.00	5,540.00	5,540.00	4,450.00
Structural steel for pass wickets for Dam No. 22, omitting drilling and punching...			5,187.50	5,187.50	
Item 3.					
Structural steel for Dam No. 24, including drilling and punching.....	6,700.00	5,170.00	5,540.00	5,540.00	4,450.00
Structural steel for Dam No. 24, omitting drilling and punching.....			5,187.50	5,187.50	
Item 4.					
Structural steel for weir wickets for Dam No. 22, including drilling and punching..	1,200.00	960.00	994.00	994.00	775.00
Structural steel for weir wickets for Dam No. 22, omitting drilling and punching...			927.00	927.00	
Total, including drilling, etc.....	23,500.00	18,200.00	19,467.00	19,467.00	15,475.00
Total, omitting drilling, etc.....			18,183.50	18,183.50	

Material.	8. Penn Bridge Co., Beaver Falls, Pa.	9. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.				
	Delivery, 135 days.	Estimated weight, pounds.	Delivery, 135 days.	Total.	Delivery, 210 days.	Total.
LOT A.						
Item 1.						
Structural steel for Dam No. 21, including drilling and punching.....	\$9,078.90	152,266	\$0.0469	\$7,141.27	\$0.0439	\$6,684.48
Structural steel for Dam No. 21, omitting drilling and punching.....	8,109.00	152,266	.0449	6,836.74	.0429	6,532.21
Item 2.						
Structural steel for pass wickets for Dam No. 22, including drilling and punching..	6,840.00	117,000	.0469	5,487.30	.0439	5,136.30
Structural steel for pass wickets for Dam No. 22, omitting drilling and punching...	6,120.00	117,000	.0449	5,253.30	.0429	5,019.30
Item 3.						
Structural steel for Dam No. 24, including drilling and punching.....	6,840.00	117,000	.0469	5,487.30	.0439	5,136.30
Structural steel for Dam No. 24, omitting drilling and punching.....	6,120.00	117,000	.0449	5,253.30	.0429	5,019.30
Item 4.						
Structural steel for weir wickets for Dam No. 22, including drilling and punching..	1,623.00	19,008	.0498	946.60	.0468	889.57
Structural steel for weir wickets for Dam No. 22, omitting drilling and punching..	1,490.00	19,008	.0478	908.58	.0458	870.57
Total, including drilling, etc.....	24,381.90			19,062.47		17,846.65
Total, omitting drilling, etc.....	21,839.00			18,251.92		17,441.38

Abstract of proposals for furnishing and delivering structural steel, forgings, steel castings, etc., for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Sept. 2, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	1. Chas. Hegewald Co., New Albany, Ind.	2. F. H. Zimmers, Pittsburgh, Pa.		3. Edw. F. Terry Mfg. Co., New York, N. Y.		4. J. & J. B. Millholland Co., Pittsburgh, Pa.	
	Delivery 135 days.	Delivery, 135 days.	Delivery, 210 days.	Delivery 135 days.	Delivery, 210 days.	Delivery, 135 days.	Delivery, 210 days.
LOT B.							
<i>Item 1.</i>							
Forgings for Dam No. 21, including drilling and punching	\$1,849.00	\$1,908.20	\$1,908.20	.....	.....	\$2,734.00	\$2,651.00
Forgings for Dam 21, omitting drilling and punching	.....	1,701.52	1,701.52	.....	.....	2,365.00	2,250.00
<i>Item 2.</i>							
Forgings for pass wickets for Dam No. 22, including drilling and punching	1,129.00	980.59	980.59	.....	.....	1,721.00	1,560.00
Forgings for pass wickets for Dam No. 22, omitting drilling and punching	.....	847.73	847.73	.....	.....	1,427.50	1,350.00
<i>Item 3.</i>							
Forgings for Dam No. 24, including drilling and punching	1,129.00	980.59	980.59	.....	.....	1,721.00	1,560.00
Forgings for Dam No. 24, omitting drilling and punching	.....	847.73	847.73	.....	.....	1,427.50	1,350.00
<i>Item 4.</i>							
Forgings for weir wickets for Dam No. 22, including drilling and punching	434.00	596.34	596.34	.....	.....	692.00	665.00
Forgings for weir wickets for Dam No. 22, omitting drilling and punching	.....	515.54	515.54	.....	.....	635.00	580.00
Total, including drilling, etc.	4,541.00	4,525.72	4,525.72	.....	.....	6,808.00	6,436.00
Total, omitting drilling, etc.	.....	3,912.52	3,912.52	.....	.....	5,855.00	5,530.00

Material.	5. Independent Bridge Co., Pittsburgh, Pa.		6. S. B. Harding, Chicago, Ill.		7. American Bridge Co., Pittsburgh, Pa.
	Delivery 135 days.	Delivery 210 days.	Delivery 135 days.	Delivery 210 days.	Delivery 210 days.
LOT B.					
<i>Item 1.</i>					
Forgings for Dam No. 21, including drilling and punching	\$2,900.00	\$2,800.00	\$1,871.00	\$1,871.00	\$2,100.00
Forgings for Dam No 21, omitting drilling and punching	.....	.....	1,759.00	1,759.00	.....
<i>Item 2.</i>					
Forgings for pass wickets for Dam No. 22, including drilling and punching	1,900.00	1,700.00	1,140.00	1,140.00	1,275.00
Forgings for pass wickets for Dam No. 22, omitting drilling and punching	.....	.....	1,072.00	1,072.00	.....
<i>Item 3.</i>					
Forgings for Dam No. 24, including drilling and punching	1,900.00	1,700.00	1,140.00	1,140.00	1,275.00
Forgings for Dam No. 24, omitting drilling and punching	.....	.....	1,072.00	1,072.00	.....
<i>Item 4.</i>					
Forgings for weir wickets for Dam No. 22, including drilling and punching	900.00	800.00	441.50	441.50	500.00
Forgings for weir wickets for Dam No. 22, omitting drilling and punching	.....	.....	413.50	413.50	.....
Total, including drilling, etc.	7,600.00	7,000.00	4,592.50	4,592.50	5,150.00
Total, omitting drilling, etc.	.....	.....	4,316.50	4,316.50	.....

Abstract of proposals for furnishing and delivering structural steel, forgings, steel castings, etc., for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Sept. 2, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	8. Penn Bridge Co., Beaver Falls, Pa.		9. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.			
	De'ivery 135 days.	Esti-mated weight, pounds.	De'ivery 135 days.	Total.	De'ivery 210 days.	Total.
LOT B.						
<i>Item 1.</i>						
Forgings for Dam No. 21, including drilling and punching.....	\$2,458.75	27,158	\$0.0594	\$1,613.19	\$0.0544	\$1,477.40
Forgings for Dam No. 21, omitting drilling and punching.....	2,374.45	27,158	.0574	1,558.87	.0524	1,423.08
<i>Item 2.</i>						
Forgings for pass wickets for Dam No. 22, including drilling and punching.....	1,478.75	16,590	.0594	985.45	.0544	902.50
Forgings for pass wickets for Dam No. 22, omitting drilling and punching.....	1,428.05	16,590	.0574	952.27	.0524	869.32
<i>Item 3.</i>						
Forgings for Dam No. 24, including drilling and punching.....	1,478.75	16,590	.0594	985.45	.0544	902.50
Forgings for Dam No. 24, omitting drilling and punching.....	1,428.05	16,590	.0574	952.27	.0524	869.32
<i>Item 4.</i>						
Forgings for weir wickets for Dam No. 22, including drilling and punching.....	587.00	6,381	.0594	379.03	.0544	347.13
Forgings for weir wickets for Dam No. 22, including drilling and punching.....	566.00	6,381	.0574	366.27	.0524	334.36
Total, including drilling, etc.....	6,003.25	.....	.....	3,963.12	.....	3,629.53
Total, omitting drilling, etc.....	5,796.55	.....	.....	3,829.68	.....	3,496.08
LOT C.						
Item 1. Steel castings, Dam No. 21.....	\$8,950.00	\$11,171.46	\$11,171.46	.....	\$5,347.00	\$5,200.00
Item 2. Steel castings for pass wickets, Dam No. 22.....	1,872.00	1,306.96	1,306.96	.....	1,530.00	1,410.00
Item 3. Steel castings, Dam No. 24.....	1,872.00	1,306.96	1,306.96	.....	1,530.00	1,410.00
Item 4. Steel castings for weir wickets, Dam No. 22.....	4,272.00	5,947.64	5,947.64	.....	2,690.00	2,525.00
Total.....	16,966.00	19,733.02	19,733.02	.....	11,097.00	10,545.00
LOT D.						
Item 1. Bolts and rods for pass wickets, Dam No. 22.....	127.00	118.23	118.23	.....	91.00	91.00
Item 2. Bolts and rods, Dam No. 24.....	170.00	156.98	156.98	.....	120.00	120.00
Item 3. Bolts and rods for weir wickets, Dam No. 22.....	694.00	624.11	624.11	.....	498.00	498.00
Total.....	991.00	839.32	839.32	.....	709.00	709.00

Abstract of proposals for furnishing and delivering structural steel, forgings, steel castings, etc., for wickets for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., on Sept. 2, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	5. Independent Bridge Co., Pittsburgh, Pa.		6. S. B. Harding, Chicago, Ill.		7. American Bridge Co., Pittsburgh, Pa.
	Delivery, 135 days.	Delivery, 210 days.	Delivery, 135 days.	Delivery, 210 days.	Delivery, 210 days.
LOT C.					
Item 1. Steel castings, Dam No. 21.....	\$5,800.00	\$5,700.00	\$7,168.00	\$7,168.00	\$4,650.00
Item 2. Steel castings for pass wickets, Dam No. 22.....	1,800.00	1,700.00	1,735.00	1,735.00	1,150.00
Item 3. Steel castings for Dam No. 24.....	1,800.00	1,700.00	1,735.00	1,735.00	1,150.00
Item 4. Steel castings for weir wickets, Dam No. 22.....	2,900.00	2,700.00	3,295.00	3,295.00	2,100.00
Total.....	12,300.00	11,800.00	13,933.00	13,933.00	9,050.00
LOT D.					
Item 1. Bolts and rods for pass wickets, Dam No. 22.....	110.00	110.00	110.00	110.00	100.00
Item 2. Bolts and rods, Dam No. 24.....	150.00	150.00	147.00	147.00	135.00
Item 3. Bolts and rods for weir wickets, Dam No. 22.....	570.00	570.00	599.00	599.00	625.00
Total.....	830.00	830.00	856.00	856.00	860.00

Material.	8. Penn Bridge Co., Beaver Falls, Pa.		9. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.			
	Delivery, 135 days.	Estimated weight, pounds.	Delivery, 135 days.	Total.	Delivery, 210 days.	Total.
LOT C.						
Item 1. Steel castings, Dam No. 21.....	\$11,790.00	74,372	\$0.0594	\$4,417.70	\$0.0574	\$4,268.95
Item 2. Steel castings for pass wickets, Dam No. 22.....	2,370.00	15,606	.0594	927.00	.0574	895.78
Item 3. Steel castings, Dam No. 24.....	2,370.00	15,606	.0594	927.00	.0574	895.78
Item 4. Steel castings for weir wickets, Dam No. 22.....	5,670.00	35,482	.0594	2,107.63	.0574	2,036.67
Total.....	22,200.00			8,379.33		8,097.18
LOT D.						
Item 1. Bolts and rods for pass wickets, Dam No. 22.....	129.00	1,921.7	.0539	103.58	.0519	99.74
Item 2. Bolts and rods for Dam No. 24.....	172.50	2,562.2	.0539	138.10	.0519	132.98
Item 3. Bolts and rods for weir wickets, Dam No. 22.....	664.50	10,763.6	.0539	580.16	.0519	558.63
Total.....	966.00			821.84		791.35

Accepted: Lot A, to No. 7; lot B, to No. 9; lot C, to No. 9; and lot D, to No. 4.

Abstract of proposals for constructing two 2-story, 14-room double houses at each of Dams Nos. 23, 25, and 27, Ohio River, and one 2-story, 14-room double house at Dam No. 22, Ohio River, opened at Wheeling, W. Va., on Apr. 3, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Construction of houses.	1. Earl N. Everson, Brilliant, Ohio.		2. R. A. Miller, Middleport, Ohio.	
	Rate.	Amount.	Rate.	Amount.
DAM NO. 22. ¹				
1 double lock-keeper's house, with asbestos-cement shingle roof.	\$9,875	\$9,875	\$11,350	\$11,350
1 double lock-keeper's house, with tile roof.....	\$9,945	\$9,945	\$11,625	\$11,625
Will complete, calendar days.....	180	.....	175	.....
DAM NO. 23.				
2 double lock-keepers' houses, with asbestos-cement shingle roofs.	\$10,175	\$20,350	.....	.....
2 double lock-keepers' houses, same as above, with tile roofs....	\$10,275	\$20,550	.....	.....
Will complete, calendar days.....	185	.....	.....	.....
DAM NO. 25.				
2 double lock-keepers' houses, with asbestos-cement shingle roofs.	\$9,750	\$19,500	\$11,350	\$22,700
2 double lock-keepers' houses, same as above, with tile roofs....	\$9,850	\$19,700	\$11,600	\$23,200
Will complete, calendar days.....	170	.....	175	.....
DAM NO. 27. ²				
2 double lock-keepers' houses, with asbestos-cement shingle roofs.	\$10,850	\$21,700	.....	.....
2 double lock-keepers' houses, same as above, with tile roofs....	\$10,950	\$21,900	.....	.....
Will complete, calendar days.....	250	.....	.....	.....

¹ Bids for house at Dam 22 only offered for consideration in connection with either houses at Dam 23 or houses at Dam 25.

² Bids for houses at Dam 27 are offered for acceptance only in case none of the other above bids for houses at Dams 22, 23, and 25 are lowest.

Accepted: No. 1, for Dams Nos. 22, 23, and 25, Ohio River.
Bids for Dam No. 27 rejected.

Abstract of proposals for furnishing and delivering river-wall valve jacks for Dam No. 24, Ohio River, opened at Wheeling, W. Va., on May 5, 1917, by Capt. F. B. Wilby, Corps of Engineers.

Article.	1. Chas. Hege- wald Co., New Albany, Ind.	2. J. & J. B. Milholland Co., Pitts- burgh, Pa.
Thirty-two river-wall valve jacks, complete.....	\$4,599.00	\$4,410.00

No. 2 accepted.

Abstract of proposals for furnishing and delivering steel lock gates for Dam No. 24, Ohio River, opened at Wheeling, W. Va., Oct. 21, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Name and address of bidder.	Steel lock gates.
1. Penn Bridge Co., Beaver Falls, Pa.....	\$52,440.00
2. Whitehead & Kales Iron Works, Beecher Avenue and M. C. R. R., Detroit, Mich....	55,403.00
3. J. & J. B. Milholland Co., 714 Fifth Avenue, Pittsburgh, Pa.....	60,800.00
4. Independent Bridge Co., Beaver Avenue and Reedsdale Street, N. S., Pittsburgh, Pa..	53,940.00
5. Milwaukee Bridge Co., 1400 Thirty-fourth Street, Milwaukee, Wis.....	62,650.00

No. 1 accepted.

Abstract of proposals for furnishing and delivering gate-operating machinery for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., on Aug. 14, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. Marine Manufacturing & Supply Co., 35 Water Street, Pittsburgh, Pa.	2. S. B. Hardin, 1222 Transportation Building, Chicago, Ill.	3. Independent Bridge Co., Beaver Avenue, Pittsburgh, Pa.	4. H. P. Garzam Machine Co., Penn Avenue, Pittsburgh, Pa.	5. The Stacey Manufacturing Co., Elmwood, Cincinnati, Ohio.
LOT A.					
Four structural steel frames:					
Dam No. 16		\$945.00	\$1,480.00	\$1,252.35	\$1,145.00
Dam No. 17		945.00	1,480.00	1,252.35	
LOT B.					
Four cast iron cylinders, with piston heads:					
Regular proposal—					
Dam No. 16		3,135.00			
Dam No. 17		3,135.00			
Alternative proposal—					
Dam No. 16				3,121.00	
Dam No. 17				3,121.00	
LOT C.					
Miscellaneous small steel castings:					
Dam No. 16	\$2,918.70	1,445.00		2,217.00	
Dam No. 17	2,918.70	1,445.00		2,217.00	
LOT D.					
Connecting strut:					
Dam No. 16		2,255.00		2,397.00	
Dam No. 17		2,255.00		2,397.00	
LOT E.					
Sector, rack, rack support, etc.:					
Dam No. 16		5,684.00		5,849.80	
Dam No. 17		5,684.00		5,849.80	
LOT F.					
Miscellaneous parts:					
Dam No. 16	2,496.80	1,935.00		1,953.00	
Dam No. 17	2,496.80	1,935.00		1,953.00	
LOT G.					
Cold-rolled steel, machine steel, etc.:					
Dam No. 16		1,820.00		2,768.50	
Dam No. 17		1,820.00		2,768.50	
LOT H.					
Stuffing boxes, oil cups, etc.:					
Dam No. 16					
Dam No. 17					
LOT I.					
Jack governors:					
Dam No. 16	398.00	266.00		475.00	
Dam No. 17	398.00	266.00		475.00	
LOT J.					
Double four-way valves:					
Dam No. 16	2,245.00	2,075.00		2,003.75	
Dam No. 17	2,245.00	2,075.00		2,003.75	
Alternative proposal No. 2, for furnishing and assembling all lots complete:					
Dam No. 16		19,200.00			
Dam No. 17		19,200.00			
Alternative proposal No. 3, furnishing and assembling all lots complete, jack cylinders to be furnished by contractor and machined by United States:					
Dam No. 16				44,074.80	
Dam No. 17				44,074.80	

No. 2 accepted (alternative proposal No. 2).

Abstract of proposals for furnishing and erecting lock gates for Dam No. 22, Ohio River, opened at Wheeling, W. Va., on Oct. 30, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Name and address of bidder.	Amount.	Kind of steel to be used in manufacturing pintles.
1. Penn Bridge Co., Beaver Falls, Pa.....	\$49,945	Nickel.
2. Milwaukee Bridge Co., Milwaukee, Wis.....	49,475	Do.
3. Whitehead & Kales Iron Works, Detroit, Mich.¹.....	45,000	Do.
4. Independent Bridge Co., Pittsburgh, Pa.....	45,840	Open-hearth high carbon.

¹ Accepted.

Abstract of proposals for furnishing and delivering water turbines, gearing, etc., for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Nov. 9, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	Quantity.	1. The Marine Manufacturing & Supply Co., 35 Water Street, Pittsburgh, Pa.	2. The Trump Manufacturing Co., Springfield, Ohio.
LOT A.			
Water turbines:			
Dam No. 16.....	1		\$545.
Dam No. 17.....	1		\$545.
Turbines are known as.....			Trump.
Manufactured by.....			Trump Manufacturing Co., Springfield, Ohio.
With 6-foot head, power developed is.....			37 horsepower.
Revolutions per minute.....			120.
Guaranteed efficiency.....			79 per cent.
Alternative proposal for water turbines same as above, excepting that runners shall have plate steel buckets:			
Dam No. 16.....	1		\$482.
Dam No. 17.....	1		\$482.
LOT B.			
Turbine-pit frames, gearing, etc.:			
Dam No. 16.....	1	\$1,018.	\$573.
Dam No. 17.....	1	\$1,018.	\$573.
LOT C.			
Oil pumps:			
Dam No. 16.....	1		
Dam No. 17.....	1		
Water pumps:			
Dam No. 16.....	1		
Dam No. 17.....	1		

Material.	Quantity.	3. J. & J. B. Millholland Co., 714 Fifth Avenue, Pittsburgh, Pa.	4. Saturn Foundry & Machine Co., Eighteenth Street, Wheeling, W. Va.	5. S. Morgan Smith Co., York, Pa.
LOT A.				
Water turbines:				
Dam No. 16.....	1	\$833.		\$758.
Dam No. 17.....	1	\$837.		\$761.
Turbines are known as.....		Smith Wicket Gate.		Smith Wicket Gate.
Manufactured by.....		S. Morgan Smith Co., York, Pa.		S. Morgan Smith Co., York, Pa.
With 6-foot head, power developed is.....		35 horse power.		35 horse power.
Revolutions per minute.....		120.		120.
Guaranteed efficiency.....		80 per cent.		81 per cent.
Alternative proposal for water turbines same as above, excepting that runners shall have plate steel buckets:				
Dam No. 16.....	1			
Dam No. 17.....	1			

Abstract of proposals for furnishing and delivering water turbines, gearing, etc., for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Nov. 9, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	Quantity.	3. J. & J. B. Milholland Co., 714 Fifth Avenue, Pittsburgh, Pa.	4. Saturn Foundry & Machine Co., Eighteenth Street, Wheeling, W. Va.	5. S. Morgan Smith Co., York, Pa.
LOT B.				
Turbine-pit frames, gearing, etc.:				
Dam No. 16.....	1	\$578.....	\$1,215.....	
Dam No. 17.....	1	\$582.....	\$1,235.....	
LOT C.				
Oil pumps:				
Dam No. 16.....	1	\$995.....		
Dam No. 17.....	1	\$998.....		
Water pumps:				
Dam No. 16.....	1	\$995.....		
Dam No. 17.....	1	\$998.....		

Accepted: Lots A and B to No. 2. Lot C, bids rejected.

Abstract of proposals for furnishing and delivering bebout horses, props, etc., for Dams Nos. 21 and 22, Ohio River, opened at Wheeling, W. Va., on Dec. 8, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Name and address of bidder.	Bebout horses, props, etc.		
	Lot A, Dam No. 21.	Lot B, Dam No. 22.	If awarded contract for both dams.
1. Penn Bridge Co., Beaver Falls, Pa.....	\$26,970	\$16,235	\$42,880
2. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.....	27,400	17,200	44,600
3. S. B. Harding, Chicago, Ill. ¹	28,970	16,770	42,960
4. Independent Bridge Co., Pittsburgh, Pa.....	30,200	19,200	48,940
5. J. & J. B. Milholland Co., Pittsburgh, Pa.....	30,600	19,400	49,400

¹ Submits alternative proposal as follows: "I propose alternately to make (if granted permission) the bars in both lots of your quality of steel castings and 20 per cent greater area, and to reduce my formal proposal by \$1,000. And further, if permission is granted to make upper and lower arms of horses of same material and 20 per cent greater area, to further reduce my formal proposal by \$2,000, further proposing to work with you in designing an acceptable rearrangement of material."

Lot A, bids rejected. Lot B, No. 1 accepted.

Abstract of proposals for furnishing and erecting miter lock gates for Dam No. 21, Ohio River, and opened at Wheeling, W. Va., on Dec. 14, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Name and address of bidder.	Furnishing and erecting 1 set of mite ing lock gates.	Kind of steel to be used in manufacturing pintles.
1. Penn Bridge Co., Beaver Falls, Pa.....	\$49,400	Nickel steel.
2. Independent Bridge Co., Pittsburgh, Pa. ¹	47,200	Do.
3. Dravo Contracting Co., Pittsburgh, Pa.....	50,400	Do.
4. The Whitehead & Kales Iron Works, Detroit, Mich.....	56,900	Do.

¹ Accepted.

Abstract of proposals for constructing lock keepers' houses at Dam No. 21, Ohio River, received in response to advertisement, and opened at Wheeling, W. Va., Dec. 12, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Article.	Quantity.	Rate.	1. Earl N. Everson, Brilliant, Ohio.		2. R. A. Miller, Middle- port, Ohio.	
			Amount.	Time of completion—number of calendar days after Mar. 31, 1917.	Amount.	Time of completion—number of calendar days after Mar. 31, 1917.
Double lock keepers' houses:						
With asbestos-cement shingle roofs.....	2	\$9,675.00	\$19,350.00	180	\$18,477.70	175
With tile roofs.....	2	9,775.00	19,550.00	180	19,077.70	175
Bungalow-type houses, shown on drawings O. 21 61/3 and 4:						
With asbestos-cement shingle roofs.....	4	6,475.00	25,900.00	200	23,735.88	175
With tile roofs.....	4	6,600.00	26,400.00	200	24,735.88	175
Bungalow-type houses, shown on drawings O. 21 61/5 and 6:						
With asbestos-cement shingle roofs.....	4	7,149.00	28,596.00	210	25,852.00	175
With tile roofs.....	4	7,275.00	29,100.00	210	26,852.00	175

Accepted: No. 2 for two double lock keepers' houses with tile roofs.

Abstract of proposals for constructing lock and guide walls for dams Nos. 23 and 25, Ohio River, opened at Wheeling, W. Va., Dec. 30, 1916, by Maj. T. H. Jackson, Corps of Engineers.

FOR DAM NO. 23.

Items.	Designation.	Approximate quantities.	1. Missouri Valley Bridge & Iron Co., Leavenworth, Kans.		2. Maryland Dredging & Contracting Co., Baltimore, Md.		3. National Contract Co., Evansville, Ind.		4. Sheridan-Kirk Contract Co., Portsmouth, Ohio.		5. Cleveland & Sons Co., Brockport, N. Y.		6. Monongahela & Ohio Dredging Co., Pittsburgh, Pa.		7. The Dravo Contracting Co., Pittsburgh, Pa.	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Cofferdam, lock.....	Linear feet.....	900	\$42.00	\$37,800.00	\$40.00	\$36,000.00	\$40.00	\$36,000.00	\$25.00	\$22,500.00			\$65.00	\$58,500.00	\$60.00	\$54,000.00
Cofferdam, guide walls.....	do.....	1,260	35.00	44,100.00	25.00	31,500.00	15.00	18,900.00	15.00	18,900.00			35.00	44,100.00	30.00	37,800.00
Common excavation.....	Cubic yards.....	100,000	1.50	150,000.00	1.10	110,000.00	.75	75,000.00	.80	80,000.00			1.10	110,000.00	1.00	100,000.00
Rock channeiling.....	Square feet.....	17,900	.96	17,184.00	1.00	17,900.00	.80	14,320.00	1.00	17,900.00			1.50	26,850.00	.55	9,845.00
Rock excavation.....	Cubic yards.....	3,300	8.40	27,720.00	4.00	13,200.00	4.00	13,200.00	4.00	13,200.00			5.00	16,500.00	11.00	36,300.00
Fill.....	do.....	22,500	.40	9,000.00	.50	11,250.00	.40	9,000.00	.60	13,500.00			.70	15,750.00	.90	20,250.00
Riprap.....	do.....	1,500	3.60	5,400.00	3.00	4,500.00	3.00	4,500.00	4.00	6,000.00			6.00	9,000.00	6.50	9,750.00
Oak timber.....	1,000 feet b. m.....	6,600	144.00	950.40	150.00	990.00	100.00	660.00	100.00	660.00			100.00	660.00	100.00	1,056.00
Concrete.....	Cubic yards.....	41,000	8.00	328,000.00	7.00	287,000.00	7.15	293,150.00	7.15	293,150.00			7.80	319,800.00	10.70	438,700.00
Concrete paving.....	do.....	2,100	8.00	16,800.00	7.00	14,700.00	7.50	15,750.00	7.00	14,700.00			8.50	17,850.00	12.50	26,250.00
Tie drain.....	Linear feet.....	872	4.00	3,488.00	1.00	872.00	.75	654.00	2.00	1,744.00			2.00	1,744.00	1.10	959.20
Unloading, caring for, and placing structural steel.....	Pounds.....	205,526		3,100.00		4,000.00		3,082.89		3,082.89				3,100.00		6,900.00
Unloading, caring for, and placing—																
Reinforcing metal.....	do.....	20,570		250.00		400.00		308.55		308.55				500.00		690.00
Forgings.....	do.....	30,704		1,000.00		300.00		490.56		490.56				700.00		1,000.00
Bolts, etc.....	do.....	8,868		270.00		400.00		133.02		133.02				200.00		300.00
Iron castings.....	do.....	8,013		400.00		400.00		120.20		120.20				100.00		270.00
Steel castings.....	do.....	9,856		400.00		400.00		147.84		147.84				200.00		330.00
River-wall valves.....	do.....	97,453		6,000.00		1,000.00		1,461.80		1,461.79				1,600.00		3,250.00
Pipe.....	Linear feet.....	80		60.00		200.00		80.00		80.00				200.00		180.00
Total.....				651,922.40		535,012.00		486,928.86		488,048.85				627,354.00		747,830.20

FOR DAM NO. 25.

Cofferdam lock.....	Linear foot.....	900			\$40.00	\$36,000.00	\$40.00	\$36,000.00	\$25.00	\$22,500.00	\$44.00	\$39,600.00	\$65.00	\$58,500.00	\$60.00	\$54,000.00
Cofferdam, guide walls.....	do.....	1,260			25.00	31,500.00	15.00	18,900.00	15.00	18,900.00	15.00	18,900.00	35.00	44,100.00	30.00	37,800.00
Common excavation.....	Cubic yards.....	113,400			1.00	113,400.00	.70	79,380.00	.70	79,380.00	.80	90,720.00	1.00	113,400.00	.78	88,452.00
Rock channeiling.....	Square feet.....	19,000			1.00	19,000.00	.75	14,250.00	1.00	19,000.00	.60	11,400.00	1.00	19,000.00	.55	10,450.00
Rock excavating.....	Cubic yards.....	3,800			4.00	15,200.00	3.50	13,300.00	4.00	15,200.00	2.00	7,600.00	5.00	19,000.00	11.00	41,800.00
Fill.....	do.....	27,500			.50	13,750.00	.40	11,000.00	.60	16,500.00	.55	15,125.00	.70	19,250.00	.90	24,750.00

Abstract of proposals for constructing lock and guide walls for dams Nos. 23 and 25, Ohio River, opened at Wheeling, W. Va., Dec. 30, 1916, by Maj. T. H. Jackson, Corps of Engineers—Continued.

FOR DAM NO. 25—Continued.

Items.	Designation.	Ap- proximate quan- tities.	1. Missouri Valley Bridge & Iron Co., Leavenworth, Kans.		2. Maryland Dredging & Contracting Co., Baltimore, Md.		3. National Contract Co., Evansville, Ind.		4. Sheridan- Kirk Contract Co., Ports- mouth, Ohio.		5. Cleveland & Sons Co., Brockport, N. Y.		6. Monongahela & Ohio Dredg- ing Co., Pitts- burgh, Pa.		7. The Dravo Contracting Co., Pittsburgh, Pa.	
			Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Riprap.....	Cubic yards...	1,400		\$3.00	\$4,200.00	\$3.00	\$4,200.00	\$4.00	\$5,600.00	\$5.00	\$7,000.00	\$5.00	\$7,000.00	\$6.50	\$9,100.00	
Oak timber.....	1,000 feet b. m.	6,600		150.00	990.00	100.00	660.00	100.00	660.00	100.00	660.00	100.00	661.00	160.00	1,056.00	
Concrete.....	Cubic yards.....	47,500		7.00	332,500.00	6.50	308,750.00	7.00	332,500.00	8.00	380,000.00	7.60	361,000.00	10.70	508,250.00	
Concrete paving.....	do.....	1,900		7.00	13,300.00	7.50	14,250.00	7.00	13,300.00	8.00	15,200.00	8.50	16,150.00	12.50	23,750.00	
Tile drain.....	Linear feet.....	815		1.00	815.00	.75	611.25	2.00	1,630.00	.50	407.50	2.00	1,630.00	1.10	896.50	
Unloading, caring for, and placing—																
Structural steel.....	Pounds.....	205,526			4,000.00		3,082.89		3,082.89		1,027.00		3,100.00		6,900.00	
Reinforcing metal.....	do.....	13,992			400.00		209.88		209.88		70.00		500.00		690.00	
Forgings (including wrought iron)	do.....	30,388			300.00		455.79		455.79		152.00		700.00		1,000.00	
Bolts, etc.....	do.....	8,637			400.00		129.56		129.55		45.00		200.00		300.00	
Iron castings.....	do.....	8,013			400.00		120.20		120.20		40.00		100.00		270.00	
Steel castings.....	do.....	9,856			400.00		147.84		147.84		50.00		200.00		330.00	
River-wall valves.....	do.....	97,097			1,000.00		1,456.46		1,456.45		500.00		1,600.00		3,250.00	
Placing pipe.....	Linear feet.....	80			200.00		80.00		80.00		10.00		200.00		180.00	
Total.....					587,755.00		506,983.87		530,852.60		588,506.50		666,290.00		813,224.50	
Will accept contract for.....					Both dams.....		One or both dams.						One lock only.		One dam only.	

Accepted: No. 3 for both dams.

Abstract of proposals for furnishing and delivering structural steel, castings, etc., for Dams Nos. 23, 25, and 27, Ohio River, opened at Wheeling, W. Va., on Dec. 5, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. American Car & Foundry Co., Huntington, W. Va.	2. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.	3. S. B. Harding, Chicago, Ill.	4. Penn Bridge Co., Beaver Falls, Pa.	5. Independent Bridge Co., Pittsburgh, Pa.	6. J. & J. B. Milholland Co., Pittsburgh, Pa.
LOT A.						
Item 1. Structural steel, Dam 23			\$12,840.00	\$15,740.00	\$12,240.00	
Item 2. Structural steel, Dam 25			12,840.00	15,760.00	12,240.00	
Item 3. Structural steel, Dam 27			12,840.00	15,700.00	12,240.00	
Total			38,520.00	47,200.00	36,720.00	
LOT B.						
Item 1. Forgings, Dam 23		\$1,793.24	1,970.00		2,590.00	
Item 2. Forgings, Dam 25		1,793.24	1,970.00		2,590.00	
Item 3. Forgings, Dam 27		1,824.95	1,970.00		2,590.00	
Total		5,411.43	5,910.00		7,770.00	
LOT C.						
Item 1. Bolts, etc., Dam 23		473.62	524.00		455.00	\$639.00
Item 2. Bolts, etc., Dam 25		473.62	524.00		455.00	639.00
Item 3. Bolts, etc., Dam 27		473.62	524.00		455.00	642.00
Total		1,420.86	1,572.00		1,365.00	1,920.00
LOT D.						
Item 1. Iron castings, Dam 23			429.00			404.10
Item 2. Iron castings, Dam 25			429.00			404.10
Item 3. Iron castings, Dam 27			429.00			405.00
Total			1,287.00			1,213.20
LOT E.						
Item 1. Steel castings, Dam 23			994.00			898.25
Item 2. Steel castings, Dam 25			994.00			898.25
Item 3. Steel castings, Dam 27			994.00			900.00
Total			2,982.00			2,696.50
LOT F.						
Item 1. River-wall valves, Dam 23	\$7,990.00		7,360.00			7,975.00
Item 2. River-wall valves, Dam 25	7,990.00		7,360.00			7,975.00
Item 3. River-wall valves, Dam 27	7,990.00		7,360.00			7,975.00
Total	23,970.00		22,080.00			23,925.00

Accepted: Lots A and C to No. 5; lot B to No. 2; lots D and E to No. 6; lot F to No. 3.

Abstract of proposals for furnishing and delivering steel castings, iron castings, etc., for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., Dec. 9, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. Chas. Hegewald Co., New Albany, Ind.	2. J. & J. B. Milholland Co., Pittsburgh, Pa.	3. S. B. Harding, Chicago, Ill.
LOT A.			
Forgings and bolts:			
Item 1. Dam No. 21		\$242.00	\$166.00
Item 2. Dam No. 22		602.00	460.00
Item 3. Dam No. 24		96.00	67.50
LOT B.			
Structural steel and castings:			
Item 1. Dam No. 22		979.00	694.00
Item 2. Dam No. 24		418.00	294.00
LOT C.			
Iron and steel castings:			
Item 1. Dam No. 21		628.00	788.00
Item 2. Dam No. 22		1,695.00	2,094.00
Item 3. Dam No. 24		58.00	71.00
Furnishing all lots	\$3,999.00	4,620.00	4,550.00

Accepted: No. 1 for all lots.

Abstracts of proposals for furnishing and delivering horses and props for Dams Nos. 21, 22, and 24, Ohio River, opened at Wheeling, W. Va., Oct. 6, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. American Car & Foundry Co., Jeffersonville, Ind.	2. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.	3. S. B. Harding, Chicago, Ill.	4. J. & J. B. Milholland Co., Pittsburgh, Pa.
Lot A. Horses and props, Dam No. 21.....	\$28,540.62	\$20,580.00	\$27,970.00	\$18,798.00
Lot B. Horses and props, Dam No. 22.....	28,540.62	20,730.00	27,970.00	18,798.00
Lot C. Horses and props, Dam No. 24.....	28,540.62	20,960.00	27,970.00	18,866.00
Or, if awarded Lots A, B, and C.....	85,000.00	62,270.00	83,500.00	55,490.00

Accepted: No. 4 for consolidated bid of \$55,490.

Abstract of proposals for furnishing and delivering white-oak timber for wickets for Dams Nos. 22 and 24, Ohio River, opened at Wheeling, W. Va., on Dec. 9, 1916, by Maj. T. H. Jackson, Corps of Engineers.

Names and addresses of bidders.	Dam No. 22.		Dam No. 24.	
	Rate per 1,000 feet b. m.	Amount.	Rate per 1,000 feet b. m.	Amount.
1. The Meadow River Lumber Co., Rainelle, W. Va.....	\$37.50	\$1,996.80	\$3.50	\$2,427.79
2. G. Elias & Bro., Buffalo, N. Y.....	49.90	2,657.08	51.50	3,334.16
3. Buckeye Lumber Manufacturing Co., Pittsburgh, Pa.....	45.00	2,396.16	45.00	2,913.34

Accepted: No. 1 for both dams.

Abstract of proposals for furnishing and delivering pipe, pipe fittings, valves, and accessories for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Jan. 19, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1		2		3		4		5	
	Crane Co., Cincinnati, Ohio.		Trimble & Lutz Supply Co., Wheeling, W. Va.		Standard Manufacturing Co., Wheeling W. Va.		C. A. Turner (Inc.), Pittsburgh, Pa.		Kelly & Jones Co. Pittsburgh, Pa.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
LOT A.										
Item 1. Pipe for Dam No. 16:	<i>Per 100 feet.</i>		<i>Per 100 feet.</i>		<i>Per 100 feet.</i>		<i>Per foot.</i>		<i>Per 100 feet.</i>	
1,400 linear feet extra strong wrought-iron pipe, 6-inch.....	\$154.4700	\$2,162.58	\$150.5000	\$2,107.00	\$153.0000	\$2,142.00	\$1.63	\$2,282.00	\$175.89	\$2,462.46
125 linear feet extra strong wrought-iron pipe, 4-inch.....	79.5200	99.40	76.2000	95.25	78.7500	98.44	.84	105.00	90.75	113.44
50 linear feet extra strong wrought-iron pipe, 3-inch.....	54.6000	27.30	53.0000	26.50	54.1000	27.05	.58	29.00	62.31	31.16
1,100 linear feet extra strong wrought-iron pipe, 1½-inch.....	17.8900	196.79	17.5000	192.50	17.7100	194.81	.19	209.00	20.62	226.82
160 linear feet extra strong wrought-iron pipe, ¾-inch.....	7.3500	11.76	7.3700	11.79	7.2600	11.62	.08	12.80	8.47	13.55
	<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>	
20 extra strong wrought-iron nipples, 4 by 3½ inches.....	.5750	11.50	.4400	8.80	.4750	9.50	.30	6.00	.59	11.80
15 extra strong wrought-iron nipples, 1½ by 2½ inches.....	.0900	1.35	.0600	.90	.0675	1.01	.05	.75	.09	1.35
20 extra strong wrought-iron nipples, ¾ by 2 inches.....	.0400	.80	.0275	.55	.0150	.30	.02	.40	.04	.80
Item 2. Pipe for Dam No. 17:	<i>Per 100 feet.</i>		<i>Per 100 feet.</i>		<i>Per 100 feet.</i>		<i>Per foot.</i>		<i>Per 100 feet.</i>	
1,400 linear feet extra strong wrought-iron pipe, 6-inch.....	154.8100	2,167.34	151.0000	2,114.00	153.0000	2,142.00	1.63	2,282.00	175.89	2,462.46
125 linear feet extra strong wrought-iron pipe, 4-inch.....	79.7000	99.63	77.8000	97.25	78.7500	98.44	.84	105.00	90.75	113.44
50 linear feet extra strong wrought-iron pipe, 3-inch.....	54.7200	27.36	53.4000	26.70	54.1000	27.05	.58	29.00	62.31	31.16
1,100 linear feet extra strong wrought-iron pipe, 1½-inch.....	17.9300	197.23	17.7500	195.25	17.7100	194.81	.19	209.00	20.62	226.82
160 linear feet extra strong wrought-iron pipe, ¾-inch.....	7.3700	11.79	7.3800	11.81	7.2600	11.62	.08	12.80	8.47	13.55
	<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>	
20 extra strong wrought-iron nipples, 4 by 3½ inches.....	.5750	11.50	.4400	8.80	.4750	9.50	.30	6.00	.59	11.80
15 extra strong wrought-iron nipples, 1½ by 2½ inches.....	.0900	1.35	.0600	.90	.0675	1.01	.05	.75	.09	1.35
20 extra strong wrought-iron nipples, ¾ by 2 inches.....	.0400	.80	.0275	.55	.0150	.30	.02	.40	.04	.80
Total for Lot A.....		5,028.48		4,898.55		4,969.46		5,289.90		5,722.76
LOT B.										
Item 1. Pipe bends for Dam No. 16:										
2 offset bends, with extra strong flanges, 6-inch.....	43.4500	86.90	36.0000	72.00	31.9500	63.90	34.90	69.80	58.25	116.50
1 offset bend, with extra strong flanges, 6-inch.....	48.1500	48.15	45.0000	45.00	35.7100	35.71	34.90	34.90	84.00	84.00
Do.....	33.5500	33.55	25.0000	25.00	23.2800	23.28	24.90	24.90	49.25	49.25
2 offset bends, with extra strong flanges, 6-inch.....	41.2500	82.50	23.0000	46.00	30.8500	61.70	34.90	69.80	56.50	113.00
1 offset bend, with extra strong flanges, 6-inch.....	43.4500	43.45	35.5000	35.50	31.6800	31.68	34.90	34.90	57.60	57.60

Abstract of proposals for furnishing and delivering pipe, pipe fittings, valves, and accessories for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Jan. 19, 1917, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	1		2		3		4		5	
	Crane Co., Cincinnati, Ohio.		Trimble & Lutz Supply Co., Wheeling, W. Va.		Standard Manufacturing Co., Wheeling W. Va.		C. A. Turner (Inc.), Pittsburgh, Pa.		Kelly & Jones Co., Pittsburgh, Pa.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
LOT B—continued.										
Item 1. Pipe bends for Dam No. 16—Continued.	<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>	
1 offset bend, with extra strong flanges, 6-inch.....	\$48.1500	\$48.15	\$45.0000	\$45.00	\$35.7100	\$35.71	\$34.90	\$34.90	\$84.00	\$84.00
Do.....	42.9000	42.90	34.5000	34.50	30.9400	30.94	34.90	34.90	57.60	57.60
Do.....	53.9000	53.90	46.0000	46.00	40.0600	40.06	44.90	44.90	66.60	66.60
2 offset bends, with standard flanges, 6-inch.....	42.3500	84.70	33.0000	66.00	32.2100	64.42	34.90	69.80	57.60	115.20
1 offset bend, with standard flanges, 6-inch.....	34.6500	34.65	25.0000	25.00	25.6100	25.61	27.90	27.90	49.20	49.20
Do.....	32.4500	32.45	23.0000	23.00	23.4300	23.43	24.90	24.90	48.00	48.00
2 offset bends, with standard flanges, 6-inch.....	33.0000	66.00	23.0000	46.00	24.3800	48.76	24.90	49.80	49.20	98.40
1 offset bend, with standard flanges, 6-inch.....	42.3500	42.35	21.0000	21.00	30.9800	30.98	34.90	34.90	55.20	55.20
Do.....	34.6500	34.65	31.0000	31.00	25.6100	25.61	24.90	24.90	48.60	48.60
Do.....	80.3000	80.30	38.5000	38.50	30.5600	30.56	34.90	34.90	57.60	57.60
Do.....	51.7000	51.70	38.5000	38.50	36.7600	36.76	41.90	41.90	62.00	62.00
2 offset bends, with standard flanges, 6-inch.....	33.0000	66.00	24.5000	49.00	24.7900	49.58	24.90	49.80	48.00	96.00
1 offset bend, with extra strong flanges, 4-inch.....	20.3500	20.35	15.4000	15.40	14.4300	14.43	19.90	19.90	32.40	32.40
Do.....	20.6500	20.65	15.4000	15.40	14.6400	14.64	19.90	19.90	32.40	32.40
Do.....	25.0500	25.05	15.4000	15.40	17.9700	17.97	23.90	23.90	35.70	35.70
Do.....	25.0500	25.05	20.0000	20.00	17.9000	17.90	23.90	23.90	35.70	35.70
Do.....	23.9500	23.95	18.7500	18.75	17.0100	17.01	22.90	22.90	34.20	34.20
Do.....	23.9500	23.95	18.7500	18.75	17.1200	17.12	23.90	23.90	34.20	34.20
2 offset bends, with extra strong flanges, 4-inch.....	23.6500	47.30	18.7500	37.50	16.9100	33.82	23.90	47.80	34.20	68.40
Do.....	23.6500	47.30	18.7500	37.50	16.9800	33.96	23.90	47.80	34.20	68.40
1 offset bend, with extra strong flanges, 4-inch.....	28.3500	28.35	23.2500	23.25	20.4500	20.45	28.90	28.90	38.50	38.50
1 offset bend, with extra-strong flanges, 4-inch.....	28.3500	28.35	23.2500	23.25	20.3800	20.38	28.90	28.90	38.50	38.50
Do.....	24.2000	24.20	18.7500	18.75	17.3300	17.33	24.90	24.90	34.80	34.80
Do.....	24.2000	24.20	18.7500	18.75	17.3300	17.33	24.90	24.90	34.80	34.80
2 offset bend, with extra-strong flanges, 4-inch.....	22.8500	45.70	17.7500	35.50	16.3400	32.68	23.90	47.80	33.60	67.20
Do.....	22.8500	45.70	17.7500	35.50	16.3400	32.68	23.90	47.80	33.60	67.20
1 offset bend, with extra-strong flanges, 4-inch.....	20.3500	20.35	15.0000	15.00	14.0800	14.08	20.90	20.90	32.50	32.50
1 double bend, with extra-strong flanges, 4-inch.....	23.1000	23.10	18.7500	18.75	19.1300	19.13	29.90	29.90	46.80	46.80
Do.....	23.1000	23.10	18.7500	18.75	19.1300	19.13	29.90	29.90	46.80	46.80
Do.....	23.1000	23.10	18.7500	18.75	18.6600	18.66	29.90	29.90	46.80	46.80
Do.....	23.1000	23.10	18.7500	18.75	18.6600	18.66	29.90	29.90	46.80	46.80
2 15-degree bends, with extra-strong flanges, 4-inch.....	19.2500	38.50	14.5500	29.10	14.7300	29.46	20.90	41.80	26.50	53.00
2 90-degree bends, with extra-strong flanges, 3-inch.....	13.5000	27.00	10.0000	20.00	10.8700	21.74	14.90	29.80	17.50	35.00

Item 2. Pipe bends for Dam No. 17:

2 offset bends, with extra-strong flanges, 6-inch	43.4500	86.90	36.0000	72.00	31.9500	63.90	34.90	69.80	58.25	116.50
1 offset bend, with extra-strong flanges, 6-inch	48.1500	48.15	45.0000	45.00	35.7100	35.71	34.90	34.90	84.00	84.00
Do	33.5500	33.55	25.0000	25.00	23.2800	23.28	24.90	24.90	49.25	49.25
2 offset bends, with extra-strong flanges, 6-inch	41.2500	82.50	23.0000	46.00	30.8500	61.70	34.90	69.80	56.50	113.00
1 offset bend, with extra-strong flanges, 6-inch	43.4500	43.45	35.5000	35.50	31.5400	31.54	34.90	34.90	57.60	57.60
Do	48.1500	48.15	45.0000	45.00	35.7100	35.71	34.90	34.90	84.00	84.00
Do	42.9000	42.90	34.5000	34.50	31.1200	31.12	34.90	34.90	57.60	57.60
Do	53.9000	53.90	46.0000	46.00	40.0600	40.06	44.90	44.90	66.60	66.60
2 offset bends, with standard flanges, 6-inch	42.3500	84.70	33.0000	66.00	32.2100	64.42	34.90	69.80	58.25	116.50
1 offset bend, with standard flanges, 6-inch	34.6500	34.65	25.0000	25.00	25.7500	25.75	27.90	27.90	49.25	49.25
Do	32.4500	32.45	23.0000	23.00	23.4300	23.43	24.90	24.90	48.00	48.00
2 offset bends, with standard flanges, 6-inch	33.0000	66.00	23.0000	46.00	24.3800	48.76	24.90	49.80	49.20	98.40
1 offset bend, with standard flanges, 6-inch	42.3500	42.35	21.0000	21.00	30.9800	30.98	34.90	34.90	55.20	55.20
Do	34.6500	34.65	31.0000	31.00	25.6100	25.61	24.90	24.90	48.60	48.60
Do	40.1500	40.15	38.5000	38.50	30.5600	30.56	34.90	34.90	57.60	57.60
Do	51.7000	51.70	38.5000	38.50	36.7600	36.76	41.90	41.90	62.00	62.00
2 offset bends, with standard flanges, 6-inch	33.0000	66.00	24.5000	49.00	24.7900	49.58	24.90	49.58	48.00	96.00
1 offset bend, with extra-strong flanges, 4-inch	20.3500	20.35	15.4000	15.40	14.4300	14.43	19.90	19.90	32.40	32.40
Do	20.3500	20.35	15.4000	15.40	14.5000	14.50	19.90	19.90	32.40	32.40
Do	25.0500	25.05	15.4000	15.40	17.9700	17.97	23.90	23.90	35.70	35.70
Do	25.0500	25.05	20.0000	20.00	17.9000	17.90	23.90	23.90	35.70	35.70
Do	23.9500	23.95	18.7500	18.75	16.9800	16.98	22.90	22.90	34.20	34.20
Do	23.9500	23.95	18.7500	18.75	16.9800	16.98	23.90	23.90	34.20	34.20
2 offset bends, with extra-strong flanges, 4-inch	23.6500	47.30	18.7500	37.50	16.9100	33.82	23.90	47.80	34.20	68.40
Do	23.6500	47.30	18.7500	37.50	16.9800	33.96	23.90	47.80	34.20	68.40
1 offset bend, with extra-strong flanges, 4-inch	22.8500	22.85	23.2500	23.25	20.4500	20.45	28.90	28.90	38.50	38.50
Do	28.3500	28.35	23.2500	23.25	20.3800	20.38	28.90	28.90	38.50	38.50
Do	24.2000	24.20	18.7500	18.75	17.3300	17.33	24.90	24.90	34.80	34.80
Do	24.2000	24.20	18.7500	18.75	17.3300	17.33	24.90	24.90	34.80	34.80
2 offset bends, with extra-strong flanges, 4-inch	22.8500	45.70	17.7500	35.50	16.3400	32.68	23.90	47.80	33.60	67.20
Do	22.8500	45.70	17.7500	35.50	16.3400	32.68	23.90	47.80	33.60	67.20
1 offset bend, with extra-strong flanges, 4-inch	20.3500	20.35	15.0000	15.00	14.0800	14.08	20.90	20.90	32.50	32.50
1 double bend, with extra-heavy flanges, 4-inch	23.1000	23.10	18.7500	18.75	19.1300	19.13	29.90	29.90	46.80	46.80
Do	23.1000	23.10	18.7500	18.75	19.1300	19.13	29.90	29.90	46.80	46.80
Do	23.1000	23.10	18.7500	18.75	18.6600	18.66	29.90	29.90	46.80	46.80
Do	23.1000	23.10	18.7500	18.75	18.6600	18.66	29.90	29.90	46.80	46.80
2 15° bends, with extra heavy flanges, 4-inch	19.2500	38.50	14.5500	29.10	14.7300	29.46	20.90	41.80	26.50	53.00
2 90° bends, with extra heavy flanges, 3-inch	13.5000	27.00	10.0000	20.00	10.8700	21.74	14.90	29.80	17.50	35.00
Total for Lot B		3,035.35		2,319.60		2,214.37		2,706.20		4,379.05

LOT C.

Item 1. Pipe fittings, Dam No. 16:

18 extra heavy 90° screw elbows, 1½-inch	.2415	4.35	.2500	4.50	.2400	4.32	.30	5.40	.24	4.32
90 extra heavy 90° screw elbows, ¾-inch	.1208	10.87	.1300	11.70	.1200	10.80	.17	15.30	.12	10.80
9 extra heavy 45° screw elbows, 4-inch	1.7300	15.57	1.8500	16.65	1.7200	15.48	2.25	20.25	1.73	15.57
4 extra heavy 45° screw elbows, 1½-inch	.2930	1.17	.3100	1.24	.2800	1.12	.35	1.40	.29	1.16
70 extra heavy screw reducing tees, 1½ by 1½ by ¾ inch	.3623	25.36	.7500	52.50	.3600	25.20	.57	39.90	.40	28.00
20 extra heavy 90° flanged elbows, 4-inch	3.5300	70.60	3.7500	75.00	3.5200	70.40	4.20	84.00	3.52	70.40
2 extra heavy 90° flanged elbows, 3-inch	2.6700	5.34	2.8500	5.70	2.6700	5.34	3.15	6.30	2.67	5.34
6 extra heavy 45° flanged elbows, 6-inch	6.2000	37.20	6.6000	39.60	6.1900	37.14	7.25	43.50	6.20	37.20

Abstract of proposals for furnishing and delivering pipe, pipe fittings, valves, and accessories for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Jan. 19, 1917, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	1		2		3		4		5	
	Crane Co., Cincinnati, Ohio.		Trimble & Lutz Supply Co., Wheeling, W. Va.		Standard Manufacturing Co., Wheeling W. Va.		C. A. Turner (Inc.), Pittsburgh, Pa.		Kelly & Jones Co., Pittsburgh, Pa.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
LOT C—continued.										
Item 1. Pipe fittings, Dam No. 16—Continued.	<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>	
1 extra heavy 45° flanged elbow, 4-inch.....	\$3.8500	\$3.85	\$4.1000	\$4.10	\$3.8400	\$3.84	\$4.50	\$4.50	\$3.85	\$3.85
1 extra heavy flanged tee, 6 by 6 by 6 inches.....	8.3400	8.34	8.8500	8.85	8.3300	8.33	11.00	11.00	8.33	8.33
17 extra heavy flanged tees, 4 by 4 by 4 inches.....	5.1300	\$7.21	5.4500	92.65	5.1300	\$7.21	6.25	106.25	5.13	\$7.21
1 extra heavy flanged tee, 3 by 3 by 3 inches.....	3.9100	3.91	4.9000	4.90	3.9100	3.91	5.12	5.12	3.91	3.91
1 extra heavy flanged reducing tee, 6 by 6 by 4 inches.....	\$4.4100	9.41	10.0000	10.00	9.4000	9.40	12.50	12.50	9.40	9.40
2 extra heavy flanged reducing tee, 6 by 6 by 3 inches.....	9.4100	18.82	10.0000	20.00	9.4000	18.80	12.50	25.00	9.40	18.80
1 standard flanged elbow, 4-inch.....	2.3500	2.35	2.5000	2.50	2.3500	2.35	2.75	2.75	2.35	2.35
7 standard long radius elbows, 3-inch.....	2.9300	20.51	3.1000	21.70	2.9300	20.51	3.42	23.94	2.93	20.51
6 standard 45° flanged elbow, 6-inch.....	4.1300	24.78	4.4000	26.40	4.1200	24.72	4.85	29.10	4.13	24.78
1 standard flanged tee, 6 by 6 by 6 inches.....	5.5400	5.54	5.9000	5.90	5.5300	5.53	6.50	6.50	5.54	5.54
4 standard reducing flanged tees, 6 by 6 by 3 inches.....	6.2400	24.96	6.6500	26.60	6.2400	24.96	7.30	29.20	6.24	24.96
1 standard reducing flanged tee, 4 by 3 by 3 inches.....	3.8500	3.85	4.5000	4.50	3.8400	3.84	4.50	4.50	3.85	3.85
55 extra heavy flanges, 6-inch.....	1.6400	90.20	1.7500	96.25	1.6400	90.20	1.20	66.00	1.73	95.15
55 extra heavy flanges, 4-inch.....	1.2000	66.00	1.2700	69.85	1.1900	65.45	.90	49.50	1.26	69.36
14 extra heavy flanges, 3-inch.....	.8303	11.62	.8700	12.18	.8300	11.62	.60	8.40	.87	12.18
2 extra-heavy reducing flanges, 8½ by 1½ inches.....	1.2600	2.52	1.3400	2.68	1.2500	2.50	1.24	2.48	1.33	2.68
55 standard flanges, 6-inch.....	1.0100	55.55	1.0800	59.40	1.0000	55.00	1.00	55.00	1.06	58.30
4 standard flanges, 4-inch.....	.7294	2.92	.7800	3.12	.7300	2.92	.72	2.88	.77	3.00
12 standard flanges, 3-inch.....	.5080	6.07	.5400	6.48	.5000	7.20	.50	5.00	.53	6.36
2 standard reducing flanges, 7½ by 1½ inches.....	.7500	1.50	.8000	1.60	.7400	1.48	.74	1.48	.79	1.58
	<i>Per 100.</i>		<i>Per 100.</i>		<i>Per 100.</i>		<i>Per 100.</i>		<i>Per 100.</i>	
600 galvanized bolts, square head, hexagon nut, ¾ by 3¼ inches.....	10.38	62.28	8.56	51.36	11.50	69.00	14.00	84.00	12.54	75.24
1,000 galvanized bolts, square head and hexagonal nut, ¾ by 3½ inches.....	10.05	100.50	8.56	85.60	10.90	109.00	14.00	140.00	11.88	118.80
20 galvanized bolts, square head and hexagonal nut, ¾ by 3¼ inches.....	9.11	1.82	8.10	1.62	10.60	2.12	14.00	2.80	11.88	2.38
650 galvanized bolts, square head and hexagonal nut, ¾ by 3 inches.....	9.20	59.80	8.10	52.65	10.28	66.82	12.00	78.00	11.22	72.93
50 galvanized bolts, square head and hexagonal nut, ¾ by 2½ inches.....	6.11	3.06	5.15	2.58	6.98	3.49	9.00	4.50	7.60	3.80
100 galvanized bolts, square head and hexagonal nut, ¾ by 2½ inches.....	5.77	5.77	5.15	5.15	6.54	6.54	9.00	9.00	7.15	7.15

34 screw brass unions, 1½ inches	Each.	2.69	91.46	Each.	5.40	183.60	Each.	5.60	190.40	Each.	2.70	91.80	Each.	1.28	43.52
80 screw brass unions, ¾ inch		.9470	75.76		1.3800	110.40		1.3600	108.80		.95	76.00		.53	42.40
Item 2. Pipe fittings, Dam No. 17:															
18 extra heavy 90° screw elbows, 1½-inch		.2415	4.35		.2500	4.50		.2400	4.32		.30	5.40		.24	4.32
90 extra heavy 90° screw elbows, ¾-inch		.1208	10.87		.1300	11.70		.1200	10.80		.17	15.30		.12	10.80
9 extra heavy 45° screw elbows, 4-inch		1.7300	15.57		1.8500	16.65		1.7200	15.48		2.25	20.25		1.73	15.57
4 extra heavy 45° screw elbows, 1½-inch		.2930	1.17		.3100	1.24		.2800	1.12		.85	1.40		.29	1.16
70 extra heavy screw-reducing tees, 1½ by 1½ by ¾ inch		.3620	25.34		.7500	52.50		.3600	25.20		.67	39.90		.40	28.00
20 extra heavy flanged elbows, 4-inch		3.5300	70.60		3.7500	75.00		3.5200	70.40		4.20	84.00		3.52	70.40
2 extra heavy flanged elbows, 3-inch		2.6700	5.34		2.8500	5.70		2.6700	5.34		3.15	6.30		2.67	5.34
6 extra heavy 45° flanged elbows, 6-inch		6.2000	37.20		6.6000	39.60		6.1900	37.14		7.25	43.50		6.20	37.20
1 extra heavy 45° flanged elbow, 4-inch		3.8500	3.85		4.1000	4.10		3.8400	3.84		4.50	4.50		3.85	3.85
1 extra heavy flanged tee, 6 by 6 by 6 inch		8.3400	8.34		8.8500	8.85		8.3300	8.33		11.00	11.00		8.33	8.33
17 extra heavy flanged tees, 4 by 4 by 4 inch		5.1300	87.21		5.4500	92.65		5.1300	87.21		6.25	106.25		5.13	87.21
1 extra heavy flanged tee, 3 by 3 by 3 inch		3.9100	3.91		4.9000	4.90		3.9100	3.91		5.12	5.12		3.91	3.91
1 extra heavy flanged-reducing tee, 6 by 6 by 4 inch		9.4100	9.41		10.0000	10.00		9.4000	9.40		12.50	12.50		9.40	9.40
2 extra heavy flanged-reducing tees, 6 by 6 by 3 inch		9.4100	18.82		10.0000	20.00		9.4000	18.80		12.50	25.00		9.40	18.80
1 standard flanged elbow, 4-inch		2.3500	2.35		2.5000	2.50		2.3500	2.35		2.75	2.75		2.35	2.35
7 standard long-radius elbows, 3-inch		2.9300	20.51		3.1000	21.70		2.9300	20.51		3.42	23.94		2.93	20.51
6 standard 45° flanged elbows, 6-inch		4.1300	24.78		4.4000	26.40		4.1200	24.72		4.85	29.10		4.13	24.78
1 standard flanged tee, 6 by 6 by 6 inches		5.5400	5.54		5.9000	5.90		5.5300	5.53		6.50	6.50		5.54	5.54
4 standard reducing flanged tees, 6 by 6 by 3 inches		6.2400	24.96		6.6500	26.60		6.2400	24.96		7.30	29.20		6.24	24.96
1 standard reducing flanged tee, 4 by 3 by 3 inches		3.8500	3.85		4.5000	4.50		3.8400	3.84		4.50	4.50		3.85	3.85
55 extra heavy flanges, 6-inch		1.6400	90.20		1.7500	96.25		1.6400	90.20		1.20	66.00		1.73	95.15
55 extra heavy flanges, 4-inch		1.2000	66.00		1.2700	69.85		1.1900	65.45		.90	49.50		1.26	69.30
14 extra heavy flanges, 3-inch		.8303	11.62		.8400	11.76		.8300	11.62		.60	8.40		.87	12.18
2 extra heavy reducing flanges, 8½ by 1½ inches		1.2600	2.52		1.3400	2.68		1.2500	2.50		1.24	2.48		1.33	2.66
55 standard flanges, 6-inch		1.0100	55.55		1.0800	59.40		1.0000	55.00		1.00	55.00		1.06	58.30
4 standard flanges, 4-inch		.7290	2.92		.7800	3.12		.7300	2.92		.72	2.88		.77	3.08
12 standard flanges, 3-inch		.5060	6.07		.5400	6.48		.6000	7.20		.50	6.00		.53	6.36
2 standard reducing flanges, 7½ by 1½ inches		.7500	1.50		.8000	1.60		.7400	1.48		.74	1.48		.79	1.58
600 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches	Per 100.	10.38	62.28	Per 100.	8.56	51.36	Per 100.	11.50	69.00	Per 100.	14.00	84.00	Per 100.	12.54	75.24
1,000 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches		10.05	100.50		8.56	85.60		10.90	109.00		14.00	140.00		11.88	118.80
20 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches		9.11	1.82		8.10	1.62		10.60	2.12		14.00	2.80		11.88	2.38
650 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches		9.20	59.80		8.10	52.65		10.28	66.82		12.00	78.00		11.22	72.93
50 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches		6.11	3.06		5.15	2.58		6.98	3.49		9.00	4.50		7.60	3.80
100 galvanized bolts, square head and hexagonal nut, ¾ by ¾ inches		5.77	5.77		5.15	5.15		6.54	6.54		9.00	9.00		7.15	7.15
34 screw brass unions, 1½-inch	Each.	3.69	125.46	Each.	5.40	183.60	Each.	5.60	190.40	Each.	2.70	91.80	Each.	1.28	43.52
80 screw brass unions, ¾-inch		.947	75.76		1.38	110.40		1.36	108.80		.95	76.00		.53	42.40
Total for Lot C			2,075.62			2,358.60			2,351.48			2,308.50			2,002.22

Abstrat of proposals for furnishing and delivering pipe, pipe fittings, valves, and accessories for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Jan. 19, 1917, by Maj. T. H. Jackson, Corps of Engineers—Continued.

Material.	1		2		3		4		5	
	Crane Co., Cincinnati, Ohio.		Trimble & Lutz Supply Co., Wheeling, W. Va.		Standard Manufacturing Co., Wheeling W. Va.		C. A. Turner (Inc.), Pittsburgh, Pa.		Kelly & Jones Co., Pittsburgh, Pa.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
LOT D.										
Item 1. Valves, etc., Dam No. 16:	<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>		<i>Each.</i>	
2 extra heavy screw angle valves, 1½-inch.....	\$4.9900	\$9.98	\$7.6900	\$15.38	\$7.6200	\$15.24	\$7.90	\$15.80	\$5.59	\$11.18
68 extra heavy screw angle valves, ¾-inch.....	1.7800	121.04	2.4900	169.32	2.4700	167.96	2.60	176.80	1.81	123.08
4 extra heavy screw globe valves, 1½-inch.....	4.9900	19.96	7.6900	30.76	7.6200	30.48	7.90	31.60	5.59	22.36
2 medium screw angle valves, 1½-inch.....	3.6800	7.36	3.9800	7.96	3.8700	7.74	4.25	8.50	3.07	6.14
1 extra heavy flanged angle valve, 6-inch.....	44.9100	44.91	63.0000	63.00	75.1300	75.13	80.00	80.00	44.87	44.87
9 extra heavy flanged angle valves, 4-inch.....	28.1300	253.17	37.5000	337.50	37.3800	336.42	48.00	432.00	28.12	253.08
2 extra heavy flanged angle valves, 3-inch.....	22.4400	44.88	25.5000	51.00	25.4600	50.92	32.00	64.00	22.43	44.86
4 extra heavy flanged gate valves, 6-inch.....	44.0900	176.36	62.2500	249.00	62.2900	249.16	80.00	320.00	44.10	176.40
1 extra heavy flanged gate valve, 4-inch.....	26.8700	26.87	35.0000	35.00	35.0300	35.03	49.00	49.00	26.86	26.86
1 standard flanged angle valve, 6-inch.....	18.5000	18.50	33.5000	33.50	32.4000	32.40	35.00	35.00	18.81	18.81
2 standard flanged angle valves, 3-inch.....	6.7300	13.46	11.2500	22.50	10.9900	21.98	15.00	30.00	6.84	13.68
4 standard flanged gate valves, 6-inch.....	14.5600	58.24	31.0000	124.00	32.0300	128.12	32.00	128.00	14.56	58.24
1 standard flanged gate valve, 4-inch.....	9.2300	9.23	19.4500	19.45	19.4300	19.43	20.00	20.00	9.25	9.25
8 extra heavy screw straightway cocks, ¾-inch.....	5.6500	45.20	4.8500	38.80	4.8200	38.56	5.70	45.60	.....	.....
2 extra heavy flanged four-way cocks, 1½-inch.....	61.5800	123.16	59.7500	119.50	67.5600	135.12	16.50	33.00	83.35	166.70
Item 2. Valves, etc., Dam No. 17:										
2 extra heavy screw angle valves, 1½-inch.....	4.9900	9.98	7.6900	15.38	7.6200	15.24	7.90	15.80	5.59	11.18
68 extra heavy screw angle valves, ¾-inch.....	1.7800	121.04	2.4900	169.32	2.4700	167.96	2.60	176.80	1.81	123.08
4 extra heavy screw globe valves, 1½-inch.....	4.9900	19.96	7.6900	30.76	7.6200	30.48	7.90	31.60	5.59	22.36
2 medium screw angle valves, 1½-inch.....	3.6800	7.36	3.9800	7.96	3.8700	7.74	4.25	8.50	3.07	6.14
1 extra heavy flanged angle valve, 6-inch.....	44.9100	44.91	63.0000	63.00	75.1300	75.13	80.00	80.00	44.87	44.87
9 extra heavy flanged angle valves, 4-inch.....	28.1300	253.17	37.5000	337.50	37.3800	336.42	48.00	432.00	28.12	253.08
2 extra heavy flanged angle valves, 3-inch.....	22.4400	44.88	25.5000	51.00	25.4600	50.92	32.00	64.00	22.43	44.86
4 extra heavy flanged gate valves, 6-inch.....	44.0900	176.36	62.2500	249.00	62.2900	249.16	80.00	320.00	44.10	176.40
1 extra heavy flanged gate valve, 4-inch.....	26.8700	26.87	35.0000	35.00	35.0300	35.03	49.00	49.00	26.86	26.86
1 standard flanged angle valve, 6-inch.....	18.5000	18.50	33.5000	33.50	32.4000	32.40	35.00	35.00	18.81	18.81
2 standard flanged angle valves, 3-inch.....	6.7300	13.46	11.2500	22.50	10.9900	21.98	15.00	30.00	6.84	13.68
4 standard flanged gate valves, 6-inch.....	14.5600	58.24	31.0000	124.00	32.0300	128.12	32.00	128.00	14.56	58.24
1 standard flanged gate valve, 4-inch.....	9.2300	9.23	19.4500	19.45	19.4300	19.43	20.00	20.00	9.25	9.25
8 extra heavy screw straight-way cocks, ¾-inch.....	5.6500	45.20	4.8500	38.80	4.8200	38.56	5.70	45.60	.....	.....
2 extra heavy flanged four-way cocks, 1½-inch.....	61.5800	123.16	59.7500	119.50	67.5600	135.12	16.50	33.00	83.35	166.70
Total for Lot D.....		1,944.64		2,633.34		2,687.38		2,938.60		1,951.02

Accepted: Lot A to No. 2; lot B to No. 3; lots C and D to No. 1.

Abstract of proposals for furnishing and delivering about horses, props, etc., for Dams Nos. 21 and 24, Ohio River, opened at Wheeling, W. Va., on Feb. 26, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. American Car & Foundry Co., Jeffersonville, Ind.	2. Pittsburgh Trolley & Forge Co., Pittsburgh, Pa.
LOT A. DAM NO. 21.		
Bebout horses, props, etc.....	\$23,670	\$44,600
LOT B. DAM NO. 24.		
Bebout horses, props, etc.....	14,760	27,900
If awarded the horses, props, etc., for both dams.....	37,000	72,000

No. 1. Accepted.

Abstract of proposals for furnishing and delivering oil accumulators for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., Feb. 21, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1. Har- die-Tyne Manu- facturing Co., Bir- mingham, Ala.	2. Inde- pendent Bridge Co., Pitts- burgh, Pa.	3. Steacy- Schmidt Manu- facturing Co., York, Pa.	4. J. & J. B. Mil- holland Co., Pitts- burgh, Pa.	5. Chas. Hegewald Co., New Albany, Ind.	6. S. B. Harding, Chicago, Ill.
LOT A.						
1 set structural-steel frames and guides, Dam 16.....		\$1,170	\$640	\$1,360	\$699	\$740
1 set structural-steel frames and guides, Dam 17.....		1,170	640	1,372	699	740
LOT B.						
3 sets cylinders, plungers, and machine parts, Dam 16.....	\$10,300		11,975	9,090	9,249	8,670
3 sets cylinders, plungers, and machine parts, Dam 17.....	10,300		11,990	9,110	9,249	8,670
Lump-sum bid for lot B.....			23,400			

Accepted:

Lot A—No. 5.
Lot B—No. 6.

Abstract of proposals for furnishing and delivering 40,000 barrels of American Portland cement for dams Nos. 21 and 22, Ohio River, opened at Wheeling, W. Va., on Apr. 9, 1917, by Maj. T. H. Jackson, Corps of Engineers.

No.	Name and address of bidder.	Dam No. 21, 20,000 barrels American Port- land cement.		Dam No. 22, 20,000 barrels American Port- land cement.		Brand.	Net weight per barrel.	To be furnished from mill at—	Allow- ance for each sack re- turned.
		Rate.	Amount.	Rate.	Amount.				
1	Alpha Portland Cement Co., Easton, Pa.	¹ 2.52	\$50,400	¹ 2.52	\$50,400	Alpha...	Pounds. 376	Manheim, W. Va., or Martins Creek, Pa.	Cents. 10
2	The Atlas Portland Cement Co., New York, N. Y.	² 2.35	47,000	² 2.35	47,000	Atlas....	376	Northampton, Pa.	10
3	Universal Portland Cement Co., Pitts- burgh, Pa.	³ 2.25	45,000	³ 2.25	45,000	Univer- sal.	376	Universal, Pa....	10

¹ Discount of 5 cents per barrel for cash in 10 days from date of invoice.

² The United States to prepay freight charges on empty cement sacks and return same within 90 days after purchase.

³ Not on bin tested but guaranteed to conform to our specifications. Bin inspected cement will be furnished when it can be done without interference with prior contracts at rate of \$2.28 per barrel.

No. 3 accepted.

Abstract of proposals for furnishing and delivering river-wall valve jacks for Dam No. 22, Ohio River, opened at Wheeling, W. Va., on Apr. 11, 1917, by Maj. T. H. Jackson, Corps of Engineers.

No.	Names and addresses of bidders.	Price for 34 river-wall valve jacks.
1	Chas. Hegewald Co., New Albany, Ind.....	\$3,725
2	J. & J. B. Millholland Co., Pittsburgh, Pa.....	4,600
3	Centre Foundry & Machine Co., Wheeling, W. Va.....	5,100
4	H. P. Gazzam Machine Co., Pittsburgh, Pa.....	5,850
5	S. B. Harding, Chicago, Ill.....	5,940

No. 1 accepted.

Abstract of proposals for furnishing and delivering gate-operating machinery for Dam No. 22, Ohio River, opened at Wheeling, W. Va., on Apr. 30, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Material.	1	2
	Hardie-Tynes Manufacturing Co., Birmingham, Ala.	W. N. Kratzer & Co., Pittsburgh, Pa.
Lot A: Structural-steel frames.....		\$1,180
Lot B: Cast-iron cylinders, with piston, piston rod, and heads—regular proposal, jack cylinders to be furnished and machined by contractor..	\$8,580	

Accepted, No. 1 for lot B: No. 2 for lot A.

Abstract of proposals for furnishing and delivering air receivers for Dams Nos. 16 and 17, Ohio River, opened at Wheeling, W. Va., on Apr. 23, 1917, by Maj. T. H. Jackson, Corps of Engineers.

Articles.	1	2	3
	The Titusville Iron Co., Pittsburgh, Pa.	The James Lappan Manufacturing Co., Pittsburgh, Pa.	H. K. Porter Co., Pittsburgh, Pa.
Two air receivers, with accessories, for Dam No. 16.....	\$3,150	\$4,156	¹ \$4,600
Two air receivers, with accessories, for Dam No. 17.....	3,150	4,185	¹ 4,600

¹ Alternative substitute.

No. 1 accepted.

Abstract of proposals for furnishing and delivering structural steel for power house for Dam No. 22, Ohio River, opened at Wheeling, W. Va., on May 10, 1917, by Capt. F. B. Wilby, Corps of Engineers.

Articles.	1	2
	W. N. Kratzer Co., Pittsburgh, Pa.	The J. E. Moss Iron Works, Wheeling, W. Va.
Lot A: Roof trusses, jack rafters, purlins, etc.....	\$2,700.00	\$2,708.69
Lot B: Floor beams, columns, partitions, etc.....	2,800.00	2,928.55
If awarded the contract for the two lots together.....	5,400.00	5,600.00

No. 1 accepted for both lots at \$5,400.

Abstract of proposals for furnishing and delivering 2 60-horsepower water turbines and 2 250-cubic-foot air compressors for Dam No. 24, Ohio River, opened at Wheeling, W. Va., on May 14, 1917, by Capt. F. B. Wilby, Corps of Engineers.

Articles.	1	2
	The Trump Manufacturing Co., Springfield, Ohio.	Bury Compressor Co., Erie, Pa.
Lot A: Two 60-horsepower water turbines.....	¹ \$3,170	.....
Lot B: Two 250-cubic-foot air compressors.....	.....	² \$3,900

¹ The turbines are known as the Trump, manufactured by the Trump Manufacturing Co.; power developed, 60 horsepower; revolutions per minute, 85; efficiency, 81 per cent.

² The compressors are known as the 14 by 9 by 12, Class BBC, manufactured by Bury Compressor Co. The brake horsepower required for each 100 cubic feet of air actually delivered when compressed to 100 pounds per square inch, 20½; when compressed to 50 pounds per square inch, 15½.

Accepted, No. 1 for lot A; No. 2 for lot B.

CINCINNATI (OHIO), FIRST DISTRICT.

(Officer: Col. Lansing H. Beach, Corps of Engineers.)

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering at Dam No. 39, Ohio River, approximately 9,500 barrels of American Portland cement, opened at United States engineer office, first district, Cincinnati, Ohio, Aug. 28, 1916.

Name and address of bidder.	Delivery, per bbl., by—		Allowance for empty sacks returned, each.	Brand of Cement.
	Railroad to Carrollton, Ky.	Barge to Dam No. 39.		
1. Alpha Portland Cement Co., Easton, Pa.....	\$2.18	.....	\$0.10	Alpha.
2. Universal Portland Cement Co., Pittsburgh, Pa... {	¹ 2.13	.....	.10	Universal.
3. Louisville Cement Co., Louisville, Ky.....	² 2.10	.....	.10	Speed.
4. Kosmos Portland Cement Co., Louisville, Ky.....	2.00	\$1.93	.10	Kosmos.
5. Lehigh Portland Cement Co., Chicago, Ill.....	2.10	.....	.10	Lehigh.
	2.05	.....	³ .10	

¹ If bin inspection is not required.

² Freight to be paid on sacks returned by United States to Mitchell, Ind.

³ Bid No. 3 accepted.

Abstract of proposals for construction of two lock-tenders' dwellings at Dam No. 29, Ohio River, opened Nov. 21, 1916, at United States engineer office, first district, Cincinnati, Ohio.

Name and address of bidder.	Regular bid: Two dwellings as specified, each.	Alternate bid: Two dwellings with 9-inch brick walls in lieu of hollow tile, each.
1. David Gordon Building & Construction Co., Cincinnati, Ohio.....	\$7,950	\$7,950
2. Earl N. Everson, Brilliant, Ohio.....	6,985	7,250
3. Geo. W. Ward & Son, Ashland, Ky.....	6,977	7,127

All bids rejected as excessive.

Abstract of proposals for wicket irons, horses, props, and poiree trestles for Dams Nos. 31, 33, 35, and 39, Ohio River, opened Dec. 8, 1916, at United States engineer office, first district, Cincinnati, Ohio.

Name and address of bidder.	523,242 pounds wicket irons.		783,250 pounds horses.		664,688 pounds props.		95,229 pounds poiree trestles.	
	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
1. American Car & Foundry Co., Jeffersonville, Ind.	Cts. 5.1	\$26,685.34	Cts. 7	\$54,827.50	Cts. 6.6	\$43,869.41	Cts. 7.25	\$6,904.10
2. Chas. Hegewald Co., New Albany, Ind.							7.99	7,608.80
3. Independent Bridge Co., Pittsburgh, Pa.	6.3	32,964.25					8	7,618.32
4. J. & J. B. Milholland Co., Pittsburgh, Pa.	6.4	33,487.49	8.75	68,534.38	8.5	56,498.48	8.5	8,094.47
5. S. B. Harding, Chicago, Ill.	6.59	34,481.65					6.7	6,380.34
6. C. A. Turner, Pittsburgh, Pa.	5.713	29,892.82						
7. Sneed Architectural Iron Works, Louisville, Ky.							8.7	8,284.92
8. American Bridge Co., Cincinnati, Ohio.	5.6	29,301.55	6	46,995.00	5.5	36,557.84	6.4	6,094.66

Bid No. 1 accepted for wicket irons; bid No. 8 for all other items.

Abstract of proposals for furnishing and erecting lock gates at Dams Nos. 31 and 35, Ohio River, opened Dec. 19, 1916, at United States engineer office, first district, Cincinnati, Ohio.

Items.	1. Penn Bridge Co., Beaver Falls, Pa.		2. Independent Bridge Co., Pittsburgh, Pa.	
	Unit.	Amount.	Unit.	Amount.
LOT A.				
Lock gates for Dam No. 31:				
408,000 pounds structural steel, etc.	\$0.08	\$32,640.00	\$0.0735	\$29,988.00
81,000 pounds forgings, including springs. ....	.115	9,315.00	.11	8,910.00
6,900 pounds bolts, etc. ....	.0962	663.78	.075	517.50
21,200 pounds iron castings. ....	.074	1,568.80	.075	1,590.00
43,000 pounds steel castings. ....	.1823	7,838.90	.18	7,740.00
2,550 pounds bronze. ....	.60	1,530.00	.80	2,040.00
150 pounds rubber. ....	.45	67.50	1.00	150.00
10,000 feet b. m. oak timber.	84.50	845.00	85.00	850.00
Total.		54,468.98		51,785.50
LOT B.				
Lock gates for Dam No. 35:				
399,000 pounds structural steel, etc. ....	.08	31,920.00	.075	29,925.00
81,000 pounds forgings, including springs. ....	.115	9,315.00	.11	8,910.00
6,900 pounds bolts, etc. ....	.0962	663.78	.075	517.50
21,200 pounds iron castings. ....	.074	1,568.80	.075	1,590.00
43,000 pounds steel castings. ....	.1823	7,838.90	.18	7,740.00
2,550 pounds bronze. ....	.60	1,530.00	.80	2,040.00
150 pounds rubber. ....	.45	67.50	1.00	150.00
9,800 feet b. m. oak timber.	84.50	828.10	85.00	833.00
Total.		53,732.08		51,705.50

Bid No. 2 accepted.

Abstract of proposals for constructing and delivering timber wickets for Dams Nos. 31 and 35, Ohio River, opened Feb. 17, 1917, at the United States Engineer office, first district, Cincinnati, Ohio.

	Bates & Rogers Construction Co., Chicago, Ill.	
	Rate.	Total.
Lot A, for Dam No. 31, Ohio River:		
178 wickets for Navigable Pass.....	\$149	\$26,522
37 wickets for Chanoine Weir.....	135	4,995
Lot B, for Dam No. 35, Ohio River:		
178 wickets for Navigable Pass.....	149	26,522
55 wickets for Chanoine Weir.....	135	7,425
		65,464

Bid rejected as excessive and work being done by United States by hired labor.

LOUISVILLE (KY.) DISTRICT.

[Officer: Maj. W. P. Stokey, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for constructing, erecting, and delivering a steel hull and derrick for dredge "Casey," received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., July 29, 1916.

Name and address of bidder.	Price bid.
1. Chas. Hegewald Co., New Albany, Ind.....	\$17,499
2. S. B. Harding, Chicago, Ill.....	18,770
3. Dubuque Boat & Boiler Works, Dubuque, Iowa.....	16,487
4. American Bridge Co., Cincinnati, Ohio.....	16,750
5. The Dravo Contracting Co., Pittsburgh, Pa.....	17,478

Abstract of proposals for furnishing and delivering stoney gate valves and accessories for Lock No. 41, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Sept. 23, 1916.

Designation.	Approximate quantities.	1. Independent Bridge Co., Pittsburgh, Pa.		2. American Car & Foundry Co., Jeffersonville, Ind.		3. J. & J. B. Milholland Co., Pittsburgh, Pa.	
		Unit price.	Total.	Unit price.	Total.	Unit price.	Total.
	<i>Pounds.</i>						
Structural steel.....	171,385.6	\$0.1075	\$18,423.95	(1)	(1)	\$0.125	\$21,423.20
Forged steel.....	1,332.0	.25	333.00	(1)	(1)	.26	346.32
Steel.....	11,807.4	.34	4,014.52	(1)	(1)	.33	3,896.44
Steel castings.....	35,233.2	.135	4,756.48	(1)	(1)	.13	4,580.32
Total of bid.....			27,527.95		\$37,480.00		30,246.28

1 Lump sum bid.

Abstract of proposals for furnishing and delivering gray iron castings for Lock No. 41, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Oct. 2, 1916.

Name and address of bidder.	Price per pound.	Total.
1. J. & J. B. Milholland Co., Pittsburgh, Pa.....	\$0.68	\$12,384.11

Abstract of proposals for furnishing and delivering metal work for gate-operating machinery for Lock No. 41, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Oct. 9, 1916.

Designation.	Approximate quantities (pounds).	1. S. B. Harding, Chicago, Ill.		2. Gillespie Manufacturing Corporation, Jersey City, N. J.		3. H. P. Gazzam Machine Co., Pittsburgh, Pa.	
		Unit price.	Total.	Unit price.	Total.	Unit price.	Total.
Structural steel.....	6,310	\$0.69	\$435.39	\$0.11	\$694.10	\$0.1075	\$678.33
Forged steel.....	8,505.3	.24	2,041.27	.64	5,443.39	.265	2,253.90
Nickel steel.....	8,792	.292	2,567.26			.185	1,628.52
Steel.....	7,999.24	.17	1,359.87			.1475	1,179.88
Spring steel.....	1,458.6	.725	1,057.75			.1275	185.97
Cast steel.....	39,007.8	.16	6,241.25			.145	5,656.13
Phosphor bronze.....	332.4	1.10	365.64	1.44	478.65	.765	254.29
Total of bid.....			13,116.43				11,835.02

Designation.	Approximate quantities (pounds).	4. Chas. Hegewald Co., New Albany, Ind.		5. J. & J. B. Milholland Co., Pittsburgh, Pa.		6. The Marine Manufacturing & Supply Co., Pittsburgh, Pa.	
		Unit price.	Total.	Unit price.	Total.	Unit price.	Total.
Structural steel.....	6,310	\$0.749	\$472.62	\$0.9	\$567.90		
Forged steel.....	8,505.3	.26399	2,245.31	.34	2,891.80	\$0.2998	2,549.89
Nickel steel.....	8,792	.825	725.34	.26	2,285.92		
Steel.....	7,999.24	.10599	847.84	.8	639.94	.2758	2,206.19
Spring steel.....	1,458.6	.249	363.19	.12	175.03		
Cast steel.....	39,007.8	.1376	5,367.47	.14	5,461.09		
Phosphor bronze.....	332.4	.8991	298.83	1.00	332.40	1.0510	349.35
Total of bid.....			10,320.60		12,354.08		

Bid No. 7 by The Southern Sales Co., Washington, D. C., on phosphor bronze only: Unit, price \$0.4350; total, \$144.59.

Abstract of proposals for furnishing and erecting upper and lower mitring lock gates of 2 leaves each for Lock No. 41, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Nov. 6, 1916.

Designation.	Approximate quantities (pounds)	1. American Bridge Co., Cincinnati, Ohio.		2. J. & J. B. Milholland Co., Pittsburgh, Pa.		3. Penn Bridge Co., Beaver Falls, Pa.		4. Independent Bridge Co., Pittsburgh, Pa.	
		Unit price.	Total.	Unit price.	Total.	Unit price.	Total.	Unit price.	Total.
Structural steel.....	1,063,400	\$0.1095	\$116,442.30	\$0.087	\$92,515.80	\$0.0847	\$90,069.98	\$0.078	\$82,945.50
Cast steel.....	220,680	.1845	40,715.46	.12	26,481.60	.189	41,708.52	.115	25,378.20
Nickel steel.....	4,050	.19	769.50	.40	1,620.00	.5574	2,257.47	.35	1,417.50
Forged steel.....	19,400	.15	2,910.00	.15	2,910.00	.129	2,502.60	.14	2,716.00
Steel.....	13,100	.17	2,227.00	.10	1,310.00	.1012	1,325.72	.115	1,506.50
Cast iron.....	1,735	.155	268.93	.10	173.50	.1032	179.05	.15	260.25
Phosphor bronze...	1,920	.90	1,728.00	1.00	1,920.00	.75	1,440.00	.85	1,632.00
Babbitt.....	4,800	.50	2,400.00	.125	600.00	.80	3,840.00	.115	552.00
Lead.....	14	.75	10.50	.15	2.10	.30	4.20	.15	2.10
White oak.....	¹ 1,390	220.00	305.80	125.00	173.75	192.00	266.88	100.00	139.00
Yellow pine.....	¹ 452	200.00	90.40	125.00	56.50	168.00	75.94	100.00	45.20
Total of bid.....			167,867.89		127,763.25		143,670.36		116,593.95

¹ Feet b. m.

Abstract of proposals for removing rock ledge and constructing guide wall below Lock No. 41, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Feb. 10, 1917.

Designation.	Approximate quantities.	1. T. A. Gillespie Co. Pittsburgh, Pa.	
		Unit price.	Total.
Concrete.....cubic yards..	1,375	\$8.50	\$11,687.50
Metal work, including anchor rods.....pounds..	14,800	.13	1,924.00
Rock excavation.....cubic yards..	25,000	4.25	106,250.00
Channelling.....square feet..	5,750	1.00	5,750.00
Drilled holes for anchor rods.....linear feet..	800	.60	480.00
Total of bid.....			126,091.50

Abstract of proposals for furnishing and delivering horses and props for Navigable Pass, Dam 43, Ohio River, received in response to advertisement and specifications opened at United States Engineer office, Louisville, Ky., Mar. 5, 1917.

[Estimated weight of material, 547,200 pounds.]

Name and address of bidder.	Unit price.	Total.
1. American Car & Foundry Co., Jeffersonville, Ind.....	\$0.0799	\$43,721.28
2. American Bridge Co., Cincinnati, Ohio.....	0.0644	35,239.68

CINCINNATI (OHIO), SECOND DISTRICT.

[Officer: Maj. W. P. Stokey, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering about 6,600 cubic yards gravel and 3,300 cubic yards sand for Dam No. 3, Muskingum River, opened June 16, 1917, in Cincinnati, Ohio, by Maj. W. P. Stokey, Corps of Engineers.

Gravel and sand delivered as indicated.	Approximate quantities (cubic yards).	1. Parkersburg & Marietta Sand Co., Parkersburg, W. Va.		2. Wilson Sand and Supply Co., Huntington, W. Va.		3. The Marietta Sand Co., Marietta, Ohio.	
		Unit.	Total.	Unit.	Total.	Unit.	Total.
FOR GRAVEL.							
(a) On United States barges at any point on Muskingum River.....	6,600	\$0.70	¹ \$4,620	\$0.60	² \$3,960	\$0.40	³ \$2,640
(b) On contractor's barges at any point on Muskingum River, including the mouth of river below Lock No. 1.....	6,600					.75	⁴ \$4,950
(c) On river bank at Dam No. 3.....	6,600			.70	4,620	1.00	6,600
FOR SAND.							
(a) On United States barges at any point on Muskingum River.....	3,300	.70	¹ 2,310	.60	² 1,980	.40	⁴ 1,320
(b) On contractor's barges at any point on Muskingum River, including the mouth of river below Lock No. 1.....	3,300					.75	⁴ 2,475
(c) On river bank at Dam No. 3.....	3,300			.70	² 2,310	1.00	3,300

Award recommended to bid No. 3.

¹ Point of delivery, Dam No. 3.
² Point of delivery, on bidder's pump boat.
³ Point of delivery, below Lock 1, Marietta, Ohio.

⁴ Point of delivery, below Lock 1.
⁵ Point of delivery, on United States barges.

Abstract of proposals for furnishing and delivering about 2,500 barrels of American Portland cement at Ravenna, Ky., for repair of Dam No. 12, Kentucky River; received in response to advertisement dated June 30, 1916, and opened July 15, 1916, by Maj. W. P. Stokey, Corps of Engineers, at Cincinnati, Ohio.

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

Item.	Approximate quantity (barrels).	1. Lehigh Portland Cement Co., 1500 Consumers' Building, Chicago, Ill.		2. Virginia Portland Cement Co., Young Building, Allentown, Pa.	
		Barrel.	Total.	Barrel.	Total.
American Portland cement, delivered at Ravenna, Ky.	2,500	\$2.14	\$5,350.00	\$2.17	\$5,425.00
Brand.....		Lehigh.....		Old Dominion.	
Manufactured by.....		The company.....		The company.	
Manufactured at.....		Mitchell, Ind.....		Fordwick, Va.	
Remarks.....				Includes sacks.	

Item.	Approximate quantity (barrels).	3. Louisville Cement Co., Louisville, Ky.		4. Kosmos Portland Cement Co. (Inc.) Louisville, Ky.		5. Universal Portland Cement Co., Pittsburgh, Pa.	
		Barrel.	Total.	Barrel.	Total.	Barrel.	Total.
American Portland cement, delivered at Ravenna, Ky.	2,500	\$1.74	\$4,350.00	\$1.61	\$4,025.00	\$2.14	\$5,350.00
Brand.....		Speed.....		Kosmos.....		Universal.	
Manufactured by.....		The company.....		The company.....		The company.	
Manufactured at.....		Speeds, Ind.....		Kosmosdale, Ky.		Universal, Pa.	
Remarks.....						Includes sacks.	

Award recommended to bid No. 4.

Abstract of proposals for constructing an extension below abutment at Dam No. 4, part of a guide wall and a guard wall at Lock No. 8, and an extension of the revetment in the canal at Lock No. 10, Muskingum River, Ohio; received in response to advertisement by posters and circular letters issued in November, 1916, inviting proposals to be opened Dec. 11, 1916, by Maj. W. P. Stokey, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite; Muskingum River, Ohio.]

Classification.	Approximate quantities.	1. The J. A. Swingle Contracting Co., Zanesville, Ohio.		2. Clifton Bros., Zanesville, Ohio.		
		Unit.	Total.	Unit.	Total.	
Work at Dam No. 4:						
Piling, round.....	linear feet..	300	\$0.55	\$165.00	\$0.48	\$144.00
Timber.....	feet b. m.....	42,460	75.00	3,184.50	65.00	2,759.90
Drift bolts and tie rods.....	pounds.....	4,500	.08	360.00	.05	225.00
Riprap.....	cubic yards..	1,000	3.00	3,000.00	2.00	2,000.00
Total.....				6,709.50		5,128.90
Work at Lock No. 8:						
Excavation.....	cubic yards..	300	1.00	300.00	.70	210.00
Piling, round.....	linear feet..	730	.55	401.50	.48	350.40
Steel sheet piles, driving.....	do.....	2,300	.40	920.00	.43	989.00
Concrete, mass.....	cubic yards..	162	6.00	972.00	5.00	810.00
Concrete, reinforced.....	do.....	240	11.00	2,640.00	8.00	1,920.00
Cement.....	barrels.....	540	2.50	1,350.00	1.90	1,026.00
Reinforcing steel and tie rods.....	pounds.....	18,940	.055	1,041.70	.06	1,136.40
Total.....				7,625.20		6,441.80
Work at Lock No. 10:						
Excavation.....	cubic yards..	150	.75	112.50	.70	105.00
Filling.....	do.....	200	.50	100.00	.60	120.00
Piling, round.....	linear feet..	448	.50	224.00	.48	215.04
Sheet piles.....	feet b. m.....	10,300	60.00	618.00	65.00	669.50
Concrete, reinforced.....	cubic yards..	112	9.00	1,008.00	8.00	896.00
Cement.....	barrels.....	168	2.50	420.00	1.90	319.20
Reinforcing steel and tie rods.....	pounds.....	16,372	.05	818.60	.06	982.32
Total.....				301.10		3,307.06
Grand total.....				17,635.80		14,877.76

Bid No. 2 recommended for award.

Abstract of proposals for furnishing and delivering about 6,600 barrels American Portland cement at Lowell, Ohio, for use in recapping the top of Dam No. 3, Muskingum River, received in response to circular advertisement dated Apr. 10, 1917, and opened Apr. 26, 1917, by Maj. W. P. Stockey, Corps of Engineers, at Cincinnati, Ohio.

[Appropriation: Operating and care of canals and other works of navigation; indefinite; Muskingum River, Ohio.]

Item.	Approximate quantities (barrels).	1. Atlas Portland Cement Co., New York, N. Y.		2. Louisville Cement Co., Louisville, Ky.		3. Universal Portland Cement Co., Pittsburgh, Pa.	
		Barrel.	Total.	Barrel.	Total.	Barrel.	Total.
American Portland Cement, delivered at Lowell, Ohio.	6,600	\$2.44	\$16,104.00	\$2.33	\$15,378.00	\$2.21	\$14,536.00
Brand.....		Atlas.....		Speed.....		Universal.	
Manufactured by.....		Bidder.....		Bidder.....		Bidder.	
Manufactured at.....		Northampton, Pa.		Speeds, Ind.....		Universal, Pa.	

DULUTH (MINN.) DISTRICT.

[Officer: Col. D. W. Lockwood, U. S. Army (retired).]

Abstract of proposals received for furnishing piles for work at Port Wing, Wis., in response to advertisement, and opened Aug. 24, 1916, by Maj. E. D. Peck, Corps of Engineers.

RIVERS AND HARBORS.

[Appropriation: Harbor at Port Wing, Mich.]

Quantity.	Article.	1. A. J. MacDonald Lumber Co., Superior, Wis.		2. Finch Bros., Duluth, Minn.	
		Per unit.	Total.	Per unit.	Total.
110	Delivered at Duluth-Superior:				
115	Piles, 7 inches at small end, 26 feet long .linear feet.	\$0.14	\$400.40	\$0.149	\$426.14
	Piles, 7 inches at small end, 32 feet long.....do.....	.14	515.20	.149	548.32
	Total.....		915.60		974.46

Bid No. 1 accepted.

Abstract of bids received for furnishing and placing rock on breakwater at Marquette Harbor, Mich., in response to above public notice and opened at Duluth, Minn., Mar. 9, 1917, by Lieut. Col. E. H. Schulz, Corps of Engineers.

[Appropriation: Harbor at Marquette, Mich.]

Name and address of bidder.	Class a, removing 99 linear feet timber, etc.	Class b, furnishing 1,300 short tons stone, 10 tons or over.	Class c, furnishing 23,200 short tons stone, various sizes.	Total.
1. F. H. Chandler, Duluth, Minn.....	{ 1 \$4.50	2 \$2.60	2 \$2.85	} \$69,945.50
	{ 445.50	3,380.00	66,120.00	
	{ 14.00	2,250.00	2,250.00	
2. T. L. Durocher, Marquette, Mich.....	{ 396.00	3,250.00	52,200.00	} 55,846.00
	{ 14.25	2,275.00	2,250.00	
	{ 420.75	3,575.00	58,000.00	
3. Zenith Dredge Co., Duluth, Minn.....	{			} 61,995.75
	{			
	{			

¹ Per linear foot.

² Per ton.

³ Authority for signature not given.

Bid 2 recommended for acceptance.

Abstract of proposals received for fir timber in response to advertisement and opened at Duluth, Minn., Mar. 9, 1917, by Lieut. Col. E. H. Schulz, Corps of Engineers.

[Various appropriations.]

Article.	1. Rogers-Ruger Lumber Co., Superior, Wis.		2. H. B. Waite Lumber Co., Minneapolis, Minn.		3. D. H. MacMullen Co., Minneapolis, Minn.	
	Per unit.	Total.	Per unit.	Total.	Per unit.	Total.
100 pieces fir, 2 by 4 by 16, 1,067 feet.....	\$14.50	\$15.47	\$11.75	\$12.54	.....	.....
50 pieces fir, 2 by 12 by 32, 3,200 feet.....	17.00	54.40	13.00	41.60	.....	.....
26 pieces fir, 2 by 12 by 32, 1,664 feet.....	} 12.50	1,649.30	} 11.50	2,472.68	\$15.00	\$3,279.17
46 pieces fir, 4 by 12 by 32, 5,888 feet.....						
150 pieces fir, 4 by 10 by 32, 16,000 feet.....						
260 pieces fir, 6 by 10 by 32, 41,600 feet.....						
11 pieces fir, 6 by 12 by 32, 2,112 feet.....						
126 pieces fir, 10 by 12 by 20, 25,200 feet.....						
96 pieces fir, 10 by 12 by 24, 23,040 feet.....						
10 pieces fir, 10 by 12 by 30, 3,000 feet.....						
42 pieces fir, 10 by 12 by 32, 13,440 feet.....						
4 pieces fir, 10 by 14 by 20, 934 feet.....						
209 pieces fir, 12 by 12 by 32, 80,256 feet.....	12.50	1,003.20	11.50			
1 piece fir, 22 by 22 by 30, 1,210 feet.....	21.00	25.41	17.50			
Total.....		2,759.92		2,526.82		3,279.17
Point of shipment.....	Coast mills.....		Granite Falls, Wash.		Bordeaux, Wash.	

Article.	4. Pacific Fir Co., Seattle, Wash.		5. Joy Tarbell Lumber Co., Chicago, Ill.		6. Duncan Lumber Co., Portland, Oreg.		
	Per unit.	Total.	Per unit.	Total.	Per unit.	Total.	
100 pieces fir, 2 by 4 by 16, 1,067 feet.....	} \$11.50	\$2,514.03	\$11.50	\$12.27	\$12.50	\$13.34	
50 pieces fir, 2 by 12 by 32, 3,200 feet.....			12.50	40.00	13.00	41.00	
26 pieces fir, 2 by 12 by 32, 1,664 feet.....			} 11.50	2,464.96	} 11.00	11.00	2,344.47
46 pieces fir, 4 by 12 by 32, 5,888 feet.....							
150 pieces fir, 4 by 10 by 32, 16,000 feet.....							
260 pieces fir, 6 by 10 by 32, 41,600 feet.....							
11 pieces fir, 6 by 12 by 32, 2,112 feet.....							
126 pieces fir, 10 by 12 by 20, 25,200 feet.....							
96 pieces fir, 10 by 12 by 24, 23,040 feet.....							
10 pieces fir, 10 by 12 by 30, 3,000 feet.....							
42 pieces fir, 10 by 12 by 32, 13,440 feet.....							
4 pieces fir, 10 by 14 by 20, 934 feet.....							
209 pieces fir, 12 by 12 by 32, 80,256 feet.....			11.00				
1 piece fir, 22 by 22 by 30, 1,210 feet.....			18.50		22.39		
Total.....		2,514.03		\$2,500 for the lot...		2,421.80	
Point of shipment.....	Lyman, Wash....		Tacoma, Wash....		Napavine, Wash.		

Article.	7. Union Lumber Co., Union Mills, Wash.		8. J. G. Newbegin, Tacoma, Wash. ¹		9. Geo. T. Mickle Lumber Co., Chicago, Ill.		
	Per unit.	Total.	Per unit.	Total.	Per unit.	Total.	
100 pieces fir, 2 by 4 by 16, 1,067 feet.....	}	\$13.87	\$10.00	\$10.67	\$12.50	\$13.34	
50 pieces fir, 2 by 12 by 32, 3,200 feet.....		54.40	12.00	38.40	16.50	52.80	
26 pieces fir, 2 by 12 by 32, 1,664 feet.....		}	2,464.95	} 10.95	2,347.07	11.75	2,518.54
46 pieces fir, 4 by 12 by 32, 5,888 feet.....							
150 pieces fir, 4 by 10 by 32, 16,000 feet.....							
260 pieces fir, 6 by 10 by 32, 41,600 feet.....							
11 pieces fir, 6 by 12 by 32, 2,112 feet.....							
126 pieces fir, 10 by 12 by 20, 25,200 feet.....							
96 pieces fir, 10 by 12 by 24, 23,040 feet.....							
10 pieces fir, 10 by 12 by 30, 3,000 feet.....							
42 pieces fir, 10 by 12 by 32, 13,440 feet.....							
4 pieces fir, 10 by 14 by 20, 934 feet.....							
209 pieces fir, 12 by 12 by 32, 80,256 feet.....							
1 piece fir, 22 by 22 by 30, 1,210 feet.....							
Total.....		2,533.22		2,396.14		2,584.68	
Point of shipment.....			Tacoma, Wash....		Centralia, Wash.		

¹ Recommended for acceptance.

Abstract of bids received for dredging in Duluth-Superior Harbor, Minn. and Wis., in response to above public notice, and opened at Duluth, Minn., Mar. 19, 1917, by Lieut. Col. E. H. Schulz, Corps of Engineers.

Name and address of bidder.	Division 1. Dipper dredging 2,604,000 cubic yards.	Division 2. Hydraulic dredging 300,000 cubic yards.	Grand total.
1. Great Lakes Dredge & Dock Co., Duluth, Minn.....	¹ \$0.13 338,520.00	¹ \$0.13 39,000.00	\$377,520.00
2. Arthur E. Breyman, Toledo, Ohio.....	¹ 0.11 $\frac{1}{2}$ 305,970.00	¹ 0.21 63,000.00	368,970.00
3. Peter C. Hart, Duluth, Minn.....	¹ 0.14 $\frac{1}{2}$ 377,580.00	¹ 0.14 $\frac{1}{2}$ 43,500.00	421,080.00
4. Duluth-Superior Dredging Co., Duluth, Minn.....	¹ 0.13 338,520.00	¹ 0.13 39,000.00	377,520.00
5. Zenith Dredge Co., Duluth, Minn.....	¹ 0.13 $\frac{1}{2}$ 345,030.00	¹ 0.13 $\frac{1}{2}$ 39,750.00	384,780.00

¹ Per cubic yard.

Recommended all bids be rejected and work readvertised.

Abstract of bids received for dredging in Duluth-Superior Harbor, Minn. and Wis., in response to above public notice, and opened at Duluth, Minn., May 7, 1917, by Col. D. W. Lockwood, U. S. Army (retired).

Name and address of bidder.	2,904,000 cubic yards.	Hydraulic dredging 300,000 cubic yards.
1. L. C. Merritt, Duluth, Minn.....	¹ \$0.14 406,560.00	¹ \$0.14 42,000.00
2. Great Lakes Dredge & Dock Co., 15th floor Alworth Building, Duluth, Minn.....	¹ 0.13 377,520.00	.....
3. Zenith Dredge Co., Duluth, Minn.....	¹ 0.13 $\frac{1}{2}$ 392,040.00	¹ 0.13 $\frac{1}{2}$ 40,500.00
4. Duluth-Superior Dredging Co., Duluth, Minn.....	¹ 0.12 $\frac{1}{2}$ 363,000.00	¹ 0.12 $\frac{1}{2}$ 37,500.00

¹ Per cubic yard.

Remarks: Bids 1 and 3 lack statement re paragraph 36; bid 2, no bid submitted for hydraulic dredging; bid 3 lacks seal of company on minutes attached to bid.

MILWAUKEE (WIS.) DISTRICT.

[Officer: Lieut. Col. Spencer Cosby, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and delivering at Milwaukee and Racine, Wis., 185,251 pounds, more or less, of steel reinforcing bars for use in improvement of Racine Harbor, Wis., received in response to poster and circular letter advertisement, and opened at Milwaukee, Wis., Jan. 22, 1917.

[Appropriation: Harbor at Racine, Wis.]

Items.	Name and address of bidder.		
	Arthur J. O'Leary & Son Co., Chicago, Ill.	Paul J. Kalman Co., Milwaukee, Wis.	Inland Steel Co., Chicago, Ill.
<i>Milwaukee delivery.¹</i>			
34,281 pounds of 0.56 square inch area bars.....	\$4.30	\$3.449	\$3.05
46,841 pounds of 0.39 square inch area bars.....	4.40	3.499	3.10
52,281 pounds of 0.25 square inch area bars.....	4.50	3.549	3.15
<i>Racine delivery.¹</i>			
20,593 pounds of 1.56 square inches area bars.....	4.30	3.449	3.05
9,417 pounds of 0.76 square inch area bars.....	4.30	3.449	3.05
17,091 pounds of 0.39 square inch area bars.....	4.40	3.499	3.10
4,747 pounds of 0.25 square inch area bars.....	4.50	3.549	3.15
Total.....	8,143.78	6,478.29	5,739.15

Contract entered into with Inland Steel Co. February 12, 1917.

¹ Per 100 pounds.

Abstract of proposals for furnishing and delivering at Racine, Wis., 19,900 linear feet, more or less, of round timber piles, received in response to poster and circular letter advertisement, and opened at Milwaukee, Wis., Feb. 5, 1917.

[Appropriation: Harbor at Racine, Wis.]

Name and address of bidder.	19,900 linear foot round piles, per linear foot.	Total.
C. H. Kimball, Milwaukee, Wis.....	\$0.20	\$3,980.00
Hogg-Harris, St. Louis, Mo.....	.15	2,985.00
Wheeler-Arnold Co., Wittenberg, Wis.....	.13	2,587.00

Contract entered into with Wheeler-Arnold Co. March 5, 1917.

Abstract of proposals for furnishing and delivering at Racine and Milwaukee, Wis., 7,750 barrels, more or less, of Portland cement, for use in improvement of Racine Harbor, Wis., received in response to poster and circular letter advertisement and opened at Milwaukee, Wis., Feb. 5, 1917.

[Appropriation: Harbor at Racine, Wis.]

Items.	Name and address of bidder.	
	Western Lime & Cement Co., 504 Pabst Building, Milwaukee, Wis.	D. P. Wigley Co., Racine, Wis.
4,750 barrels Portland cement, delivered at Racine, Wis.....	\$1.78	\$1.68
3,000 barrels Portland cement, delivered at Milwaukee, Wis.....	8,455.00	7,980.00
	1.83	.....
	5,490.00	.....

Contract entered into with D. P. Wigley Co. Feb. 20, 1917, for Racine delivery of cement.

Contract entered into with Western Lime & Cement Co. Feb. 21, 1917, for Milwaukee delivery of cement.

¹ Per barrel.

Abstract of proposals for furnishing and delivering at Racine, Wis., about 57,000 pounds tie rods, machine and drift bolts, and spikes, received in response to poster and circular letter advertisement, and opened at Milwaukee, Wis., Feb. 5, 1917.

[Appropriation: Harbor at Racine, Wis.]

Items.	Name and address of bidder.	
	Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.	Arthur J. O'Leary & Son Co., Chicago, Ill.
37,276 pounds tie rods and machine bolts, with washers.....per pound..	\$0.0400	\$0.046
6,750 pounds drift bolts.....do.....	.0495	.046
2,000 pounds boat spikes.....do.....	.0430	.047
11,000 pounds wire spikes.....do.....	.0395	.052
Total.....	2,345.6600	2,691.200

Contract entered into with Pittsburgh Screw & Bolt Co. Feb. 19, 1917.

Abstract of proposals for furnishing and delivering f. o. b. cars at mills 713,240 feet b. m., more or less, of fir timber for use in improvement of Racine Harbor, Wis., received in response to poster and circular letter advertisement and opened at Milwaukee, Wis., Feb. 5, 1917.

[Appropriation: Harbor at Racine, Wis.]

Items.	Name and address of bidder.			
	H. B. Waite Lumber Co., Minneapolis, Minn.	Pacific States Lumber Co., Tacoma, Wash.	Sullivan & Forbes (Inc.), Portland, Oreg.	G. W. Gates & Co., Portland, Oreg.
75,500 feet b. m., 12 by 12 inches..... per M feet..	\$12.00	\$12.00	\$12.00	\$11.90
33,300 feet b. m., 10 by 12 inches.....do.....	12.00	12.00	12.00	11.90
26,000 feet b. m., 8 by 12 inches.....do.....	12.00	12.00	12.00	11.90
19,500 feet b. m., 6 by 12 inches.....do.....	12.00	12.00	12.00	11.90
559,440 feet b. m., 3 by 12 inches.....do.....	12.00	{ 1 12.00 2 13.00 }	12.00	11.90
Total.....	8,558.88	8,890.77	8,558.88	8,487.56

Items.	Name and address of bidder.		
	Pacific National Lumber Co., Tacoma, Wash.	Duncan Lumber Co., Portland, Oreg.	Bloedel-Donovan Lumber Mills, Seattle, Wash.
75,500 feet b. m., 12 by 12 inches..... per M feet..	\$12.00	\$12.50	\$12.50
33,300 feet b. m., 10 by 12 inches.....do.....	12.00	12.50	12.50
26,000 feet b. m., 8 by 12 inches.....do.....	12.00	12.50	12.50
19,500 feet b. m., 6 by 12 inches.....do.....	12.00	12.50	12.50
559,440 feet b. m., 3 by 12 inches.....do.....	12.00	12.50	12.50
Total.....	8,558.88	8,915.50	8,915.50

Contract entered into with G. W. Gates & Co. Feb. 19, 1917.

¹ Lengths, 18 to 20 feet.

² Lengths, 22 to 24 feet.

Abstract of proposals for constructing reinforced concrete caisson breakwater, pile pier, removing old timber-crib pier, moving timber cribs, and dredging at Racine Harbor, Wis., received in response to advertisement and opened at Milwaukee, Wis., Mar. 9, 1917.

[Appropriation: Harbor at Racine, Wis.]

Items.	Name and address of bidder.		
	Edw. E. Gillen Co., Milwaukee, Wis.	Greiling Bros. Co., Green Bay, Wis.	Great Lakes Dredge & Dock Co., Milwaukee, Wis.
6,500 cubic yards trench excavation, per cubic yard, scow measurement.....	\$0.60	\$0.50	\$0.50
5,000 tons stone for subfoundations, per short ton.....	1.80	1.65	1.75
17,500 tons stone for main foundations, riprap, pier and crib filling, per short ton.....	2.20	1.90	2.35
Sinking 13 caissons, each.....	350.00	250.00	300.00
3,200 cubic yards sand filling in caissons, per cubic yard.....	1.00	0.50	.60
115 cubic yards concrete filling in caissons, per cubic yard.....	8.50	8.00	8.00
1,360 cubic yards concrete superstructure on caissons, per cubic yard.....	9.80	8.00	10.00
19,600 linear feet round piles, driving, per linear foot.....	.30	.20	.30
Making and driving 549,000 feet b. m. sheet piles, per M feet b. m.....	28.00	19.00	25.00
Framing and securing 147,000 feet b. m. timber, per M feet b. m.....	53.00	19.00	40.00
1,375 cubic yards concrete superstructure on pile pier, per cubic yard.....	11.50	9.00	11.00
80 cubic yards concrete slab walk, per cubic yard.....	15.00	12.00	15.00
200 cubic yards concrete paving on pile pier, per cubic yard.....	15.00	10.00	9.00
Removing 1.162 linear feet old pier, per linear foot.....	25.00	16.00	18.00
Moving 2 cribs, north breakwater, each.....	14,000.00	10,000.00	9,000.00
100,000 cubic yards dredging, per cubic yard, scow measurement.....	.20	.18	.18
Total.....	199,561.00	150,471.00	173,991.00

Contract entered into with Greiling Bros. Co., Apr. 4, 1917.

CHICAGO (ILL.) DISTRICT.

[Officer: Col. C. S. Riché, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for constructing about 3,250 linear feet of rubble mound breakwater at Indiana Harbor, Ind., opened at Chicago, Ill., Dec. 15, 1916, by Col. C. S. Riché, Corps of Engineers.

[To furnish and place all stone and construct the breakwater as specified.]

Number, names, and addresses of bidders.	Per ton of 2,000 pounds.
1. The Edw. Gillen Dock, Dredge & Construction Co., Racine, Wis.....	\$1.75
2. FitzSimons & Connell Dredge & Dock Co., Chicago, Ill.....	1.94
3. D. L. Taylor & Co., Baltimore, Md.....	2.20
4. Byrne Bros. Dredging & Engineering Co., Chicago.....	2.04
5. Great Lakes Dredge & Dock Co., Chicago, Ill.....	1.74

No. 5, lowest bid, recommended for acceptance.

Abstract of proposals for constructing about 2,730 linear feet of rubble mound breakwater at Chicago Harbor, Ill., and opened at Chicago, Ill., Oct. 17, 1916, by Col. C. S. Riché, Corps of Engineers.

[To furnish and place all stone and construct the breakwater as specified.]

Number, names, and addresses of bidders.	Per ton of 2,000 pounds.
1. Byrne Bros. Dredging & Engineering Co., Chicago, Ill.....	\$1.64
2. Great Lakes Dredge & Dock Co., Chicago, Ill.....	1.29
3. The Edward Gillen Dock, Dredge & Construction Co., Racine, Wis.....	1.21

No. 3, lowest bid, recommended for acceptance.

Abstract of proposals for pier construction, dredging, etc., South Pier, Chicago Harbor, Ill., opened at Chicago, Ill., Sept. 14, 1916, by Col. C. S. Riché, Corps of Engineers.

Materials.	Quantities.	1. Byrne Bros. Dredging & Engineering Co., Chicago, Ill.		2. Fitz Simons & Connell, Dredge & Dock Co., Chicago, Ill.		3. Great Lakes Dredge & Dock Co., Chicago, Ill.	
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
Removing old pier.....	192 linear feet.....	.....	\$6,825.00	.....	\$3,800.00	.....	\$3,800.00
Dredging.....	5,500 cubic yards.....	\$0.224	1,237.50	\$0.20	1,100.00	\$0.25	1,375.00
Removing old superstructure.	1,033 linear feet.....	12.40	12,809.20	5.00	5,165.00	9.50	9,813.50
Concrete in place.....	1,070 cubic yards.....	10.00	10,700.00	8.00	8,560.00	11.00	11,770.00
Reinforcing steel in place.....	18,656 pounds.....	.07	1,305.92	.05	932.80	.06	1,119.36
Pine or fir timber in place.....	60,618 feet b. m.....	75.00	4,546.35	70.00	4,243.26	60.00	3,637.08
Oak timber in place.....	2,616 feet b. m.....	90.00	235.44	75.00	196.20	80.00	209.28
Piles in place.....	35.....	20.00	700.00	20.00	700.00	20.00	700.00
Screw bolts and nut locks.....	1,817 pounds.....	.06	109.02	.10	181.70	.06	109.02
Driftbolts in place.....	11,160 pounds.....	.06	669.60	.07	781.20	.06	669.60
Mooring posts.....	9.....	71.20	640.80	75.00	675.00	30.00	270.00
Total.....	.....	.....	39,778.83	.....	26,335.16	.....	33,472.84

No. 2, lowest bid, recommended for acceptance.

Abstract of proposals for constructing timber crib breakwater at Chicago Harbor, Ill., opened at Chicago, Ill., Sept. 26, 1916, by Col. C. S. Riché, Corps of Engineers.

Materials.	Quantities.	1. Edward Gillen Dock, Dredge & Construction Co., Racine, Wis.		2. Fitz Simons & Connell Dredge & Dock Co., Chicago, Ill.	
		Rate.	Amount.	Rate.	Amount.
Framing timber.....	1,080,200 feet b. m.....	\$25.00	\$27,005.00	\$16.00	\$17,283.20
Oak or maple sheeting.....	13,500 feet b. m.....	65.00	877.50	60.00	810.00
Screw bolts, etc.....	28,120 pounds.....	.06 $\frac{3}{4}$	1,898.10	.07	1,968.40
Drift bolts.....	79,700 pounds.....	.05 $\frac{1}{2}$	4,582.75	.05	3,985.00
Steelspikes.....	9,570 pounds.....	.07	669.90	.05	478.50
Lag screws.....	9,000 pounds.....	.12	1,080.00	.06	540.00
Stone.....	23,200 tons.....	2.25	52,200.00	1.50	34,800.00
Dredging.....	2,000 cubic yards.....	.60	1,200.00	.30	600.00
Boiler plates.....	670 pounds.....	.12	80.40	.10	67.00
Total.....			89,593.65		60,532.10

Materials.	Quantities.	3. Great Lakes Dredge & Dock Co., Chicago, Ill.		4. Byrne Bros. Dredging & Engineering Co., Chicago, Ill.	
		Rate.	Amount.	Rate.	Amount.
Framing timber.....	1,080,200 feet b. m.....	\$11.00	\$11,882.20	\$18.00	\$19,443.61
Oak or maple sheeting.....	13,500 feet b. m.....	60.00	810.00	70.00	945.00
Screw bolts, etc.....	28,120 pounds.....	.049	1,377.88	.06 $\frac{1}{2}$	1,827.80
Drift bolts.....	79,700 pounds.....	.04	3,905.30	.06 $\frac{1}{2}$	5,180.50
Steelspikes.....	9,570 pounds.....	.04	468.93	.06 $\frac{1}{2}$	622.05
Lag screws.....	9,000 pounds.....	.04	441.00	.06 $\frac{1}{2}$	585.00
Stone.....	23,200 tons.....	1.48	34,336.00	1.50	34,800.00
Dredging.....	2,000 cubic yards.....	.29	580.00	.35	700.00
Boiler plates.....	670 pounds.....	.09	60.30	.08	53.60
Total.....			53,861.61		64,157.55

No. 3, lowest bid, recommended for acceptance.

GRAND RAPIDS (MICH.) DISTRICT.

[Officer: Lieut. Col. F. W. Altstaetter, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of bids, harbor at Ludington, Mich., for building pile substructure and constructing concrete superstructure north revetment at Ludington Harbor, Mich., received and opened Mar. 12, 1917, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Articles.	1. N. P. Nelson, Muskegon, Mich. ¹	2. Ira J. Lyons, St. Joseph, Mich.	3. Robert Love & Son, Muskegon, Mich.	4. Greiling Bros. Co., Green Bay, Wis. ²
Removing existing structure, 588 linear feet, for the lump sum of.....	\$1,200.00	\$3,087.00	\$2,940.00	\$6,000.00
Framing and placing fir timber furnished by United States, 26,792 feet b. m.....	535.84	803.76	669.80	1,071.68
Framing and driving fir planks for sheet piles furnished by United States, 133,704 feet b. m.....	2,674.08	2,674.08	3,342.60	3,208.90
Placing fir planks for pile caps furnished by United States, 2,396 feet b. m.....	47.92	23.96	59.90	239.60
To furnish the following material and to secure it in the work:				
Oak piles, 9,392 linear feet.....	3,287.20	4,226.40	3,944.64	5,635.20
Oak timber, 6,813 feet b. m.....	545.04	510.98	579.11	681.30
Drift bolts, 1,675 pounds.....	100.50	134.00	134.00	117.25
Screw bolts, 5,320 pounds.....	372.40	425.60	425.60	372.40
Carriage bolts, 3,473 pounds.....	243.11	277.84	277.84	243.11
Tie rods, 7,839 pounds.....	548.73	627.12	627.12	627.12
Spikes, 156 pounds.....	10.92	12.48	12.48	9.36
Iron cleat straps, 67 pounds.....	4.69	6.70	5.36	6.70
Built-in-place concrete, 459.4 cubic yards.....	5,512.80	4,479.15	6,891.00	8,269.20
Deck-slab concrete, 26.4 cubic yards.....	316.80	316.80	396.00	475.20
Reinforcing rods, 13,831 pounds.....	899.02	968.17	1,106.48	968.17
Filling stone, 2,000 tons.....	3,200.00	4,500.00	4,500.00	4,000.00
Total.....	19,499.05	23,074.04	25,911.93	31,925.19

¹ Contract entered into Mar. 24, 1917.

² Signer failed to furnish evidence of authority for signature to proposal.

Abstract of bids, harbor at St. Joseph, Mich., for repairing pile substructure and constructing concrete superstructure on the north revetment at St. Joseph Harbor, Mich., received and opened Mar. 8, 1917, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Articles.	1. H. M. Warner, St. Joseph, Mich. ¹	2. Ira J. Lyons, St. Joseph, Mich.	3. Robert Love & Son, Muskegon, Mich.	4. N. P. Nelson, Muskegon, Mich.
Cutting down and removing old work, 672.5 linear feet	\$2, 185.63	\$4, 203.13	\$3, 362.50	\$6, 725.00
Framing and placing fir timber furnished by United States, 20,902 feet b. m.	418.04	627.06	522.55	522.55
Placing fir planks for pile caps furnished by United States, 3,986 feet b. m.	79.72	39.86	99.65	99.65
To furnish the following material and to secure it in the work:				
Oak piles, 3,548 linear feet	887.00	1, 419.20	1, 490.16	1, 774.00
Oak timber, 7,902 feet b. m.	474.12	553.14	790.20	711.18
Screw bolts, 7,840 pounds	784.00	548.80	627.20	627.20
Carriage bolts, 300 pounds	21.00	21.00	24.00	24.00
Tie rods, 5,624 pounds	562.40	449.92	449.92	449.92
Spikes, 53 pounds	2.65	3.71	4.24	5.30
Reinforcing rods, 27,230 pounds	1, 906.10	1, 633.80	2, 178.40	2, 178.40
Built-in-place concrete (including blocks), 783 cubic yards	5, 872.50	7, 399.35	11, 745.00	11, 745.00
Concrete deck slabs, 69 cubic yards	552.00	828.00	1, 035.00	1, 035.00
Filling stone, 10 to 200 pounds, 1,000 tons	2, 500.00	2, 500.00	2, 250.00	2, 750.00
Total	16, 245.16	20, 226.97	24, 578.82	28, 647.20

¹ Contract entered into Mar. 22, 1917.

Abstract of bids, harbor at Grand Haven, Mich., for building pile substructure and constructing concrete superstructure north revetment at Grand Haven Harbor, Mich., received and opened Mar. 5, 1917, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Articles.	1. Robert Love & Son, Muskegon, Mich. ¹	2. N. P. Nelson, Muskegon, Mich.	3. Walsh Bros. & Blakeslee, Grand Haven, Mich. ²	4. Hackedorn Contracting Co., Indianapolis, Ind. ³
Driving round piles furnished by United States, 383 piles	\$1, 915.00	\$1, 149.00	\$1, 532.00	\$3, 830.00
Framing and placing fir timber furnished by United States, 30,945 feet b. m.	618.90	618.90	1, 547.25	2, 320.88
Framing and driving fir planks for sheet piles furnished by United States, 167,688 feet b. m.	3, 353.76	3, 353.76	4, 192.20	12, 576.60
Placing fir planks for pile caps furnished by United States, 3,170 feet b. m.	63.40	63.40	95.10	237.75
To furnish the following material and to secure it in the work:				
Oak piles, 8,032 linear feet	2, 891.52	3, 614.40	3, 212.80	8, 032.00
Oak timber, 8,270 feet b. m.	620.25	578.90	661.60	827.00
Screw bolts, 8,595 pounds	558.68	601.65	773.55	1, 719.00
Carriage bolts, 4,454 pounds	288.21	310.38	354.72	886.80
Tie-rods, 10,220 pounds	664.30	715.40	919.80	1, 533.00
Spikes, 247 pounds	16.06	17.29	19.76	24.70
Iron rods for ladder, 111 pounds	7.22	7.77	8.88	22.20
Built-in-place concrete, 599 cubic yards	5, 990.00	7, 188.00	6, 289.50	11, 980.00
Deck-slab concrete, 34 cubic yards	340.00	510.00	357.00	680.00
Reinforcing rods, 12,640 pounds	821.60	884.80	758.40	1, 264.00
Filling stone, 300 to 1,000 pounds, 2,500 tons	4, 200.00	5, 375.00	5, 250.00	10, 000.00
Filling stone, 50 to 200 pounds, 1,100 tons	1, 848.00	2, 200.00	2, 200.00	3, 300.00
Total	24, 196.90	27, 188.65	28, 172.56	59, 233.93

¹ Contract entered into Mar. 14, 1917.

² Guaranty incomplete; failed to furnish certificates as to pecuniary worth of guarantors, etc.

³ No evidence of authority for signature to proposal furnished; guaranty antedates bid.

Abstract of bids for furnishing, delivering, and placing about 56,000 tons of riprap around breakwaters, harbor at Ludington, Mich., received and opened Dec. 11, 1916, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Name and address of bidders.	Riprap stone in place (3 to 8 ton), about 56,000 tons, per ton.	Total.
1. N. P. Nelson & Co., Muskegon, Mich. ¹	\$2.23½	\$125,160.00
2. Grelling Bros. Co., Green Bay, Wis.....	2.53	141,680.00
3. Great Lakes Dredge & Dock Co., Chicago, Ill.....	2.65	148,400.00
4. Thomas L. Durocher, Marquette, Mich.....	2.74	153,440.00
5. Green Stone & Quarrying Co., Sawyer, Wis.....	3.40	190,400.00

¹ Contract entered into Jan. 9, 1917.

Abstract of bids: "Harbor at Manistee, Mich.," for furnishing about 421,786 feet b. m. Oregon fir timber for use in shore connection construction at Manistee Harbor, Mich., received and opened Nov. 8, 1916, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Name and address of bidders.	12 by 12, 10 by 12, 9 by 12, 7, by 12 inch, timber, 2,034 feet b. m., S. 1 S. 1 E.	Total.	6 by 12, 8 by 8 inch timber, 41,432 feet b. m., rough.	Total.
1. Lindstrom, Handforth Lumber Co., Tacoma, Wash. ¹	<i>Mft. b. m.</i> \$10.50	\$21.36	<i>Mft. b. m.</i> \$9.75	\$403.96
2. G. W. Gates & Co., Portland, Oreg.....	11.00	22.37	9.75	403.96
3. Sullivan & Forbes (Inc.), Portland, Oreg.....	10.00	20.34	10.00	414.32
4. Loop Lumber Co., Portland, Oreg.....	10.45	21.26	10.45	432.96
5. Leona Mills Lumber Co., Leona, Douglas County, Oreg. ²	10.50	21.36	9.50	393.60
6. Pacific States Lumber Co., Tacoma, Wash.....	11.00	22.37	10.00	414.32
7. Schwager & Nettleton (Inc.), Seattle, Wash. ³	11.50	23.39	11.00	455.75

Name and address of bidders.	3 by 12, 3 by 9 inch timber, 285,984 feet b. m., S.1.S. 1 E.	Total.	2 by 12 inch timber, 92,336 feet b. m., S. 1 E.	Total.	Grand total.
1. Lindstrom, Handforth Lumber Co., Tacoma, Wash. ¹	<i>Mft. b. m.</i> \$10.00	\$2,859.84	<i>Mft. b. m.</i> \$9.50	\$877.19	\$4,162.35
2. G. W. Gates & Co., Portland, Oreg.....	10.00	2,859.84	9.50	877.19	4,163.36
3. Sullivan & Forbes (Inc.), Portland, Oreg.....	10.50	3,002.83	10.50	969.53	4,407.02
4. Loop Lumber Co., Portland, Oreg.....	10.45	2,988.53	10.45	964.91	4,407.66
5. Leona Mills Lumber Co., Leona, Douglas County, Oreg. ²	10.50	3,002.83	10.75	992.61	4,410.40
6. Pacific States Lumber Co., Tacoma, Wash.....	10.85	3,102.93	10.70	988.00	4,527.62
7. Schwager & Nettleton (Inc.), Seattle, Wash. ³	11.50	3,288.82	15.50	1,431.21	5,199.17

¹ Contract entered into Dec. 2, 1916. Informal; guaranty incomplete.

² Informal; in addition to furnishing individual guarantors, bidder filled in the corporation guaranty.

³ Informal; bidder bids various prices on various sizes.

Abstract of bids, harbor at Manistee, Mich., for furnishing about 421,786 feet b. m. Oregon fir timber for use in shore connection construction at Manistee Harbor, Mich., received and opened Nov. 8, 1916, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Name and address of bidders.	Point of shipment and railroads reaching same.
1. Lindstrom Handforth Lumber Co., Tacoma, Wash.	Rainier, Wash.: Northern Pacific, Great Northern, Chicago, Milwaukee & St. Paul. Gregory Spur, Wash.: Chicago, Milwaukee & St. Paul.
2. G. W. Gates & Co., Portland, Oreg. . .	Ridgefield, Wash.: Oregon-Washington R. R. & Navigation Co., Northern Pacific, Great Northern.
3. Sullivan & Forbes (Inc.), Portland, Oreg.	Doty and Littel, Wash., on Northern Pacific.
4. Loop Lumber Co., Portland, Oreg. . . .	J. A. Veness Lumber Co., mill at Tono, Wash., Oregon-Washington R. R. & Navigation Co. tracks.
5. Leona Mills Lumber Co., Leona, Douglas County, Oreg.	Leona, Douglas County, Oreg., on main line of Southern Pacific Co.
6. Pacific States Lumber Co., Tacoma, Wash.	Selleck, Wash.: Northern Pacific and Chicago, Milwaukee & St. Paul. Mineral, Wash.: Chicago, Milwaukee & St. Paul.
7. Schwager & Nettleton (Inc.), Seattle, Wash.	Akley, Wash.: Chicago, Milwaukee & St. Paul. Stanwood, Wash.: Great Northern. Meskill, Wash.: Northern Pacific. Olympia, Wash.: Northern Pacific, Great Northern, Chicago, Milwaukee & St. Paul, Oregon-Washington R. R. & Navigation. Everett, Wash.: Northern Pacific, Great Northern, Chicago, Milwaukee & St. Paul. Eagle Gorge, Wash.: Northern Pacific. Seattle, Wash., via all lines. All points mentioned above have common terminal coast rates.

COAL.

Abstract of bids for furnishing and delivering coal until Apr. 30, 1918, for United States dredge "General Meade" on account of appropriations pertaining to river and harbor works in the Grand Rapids (Mich.) district, received and opened Apr. 18, 1917, in accordance with advertisement, by Maj. F. W. Altstaetter, Corps of Engineers.

Name and address of bidder, Home Fuel Co., Grand Rapids, Mich.
 At St. Joseph, South Haven, Holland, Grand Haven, and Muskegon, Mich., per ton of 2,000 pounds, \$5.75.
 At Ludington, Manistee, and Frankfort, Mich., per ton of 2,000 pounds, \$5.95.
 At Boyne City, Mich., per ton of 2,000 pounds, \$6.
 Moisture in coal "as received," 2 per cent.
 Percentage of ash in "dry coal," 6 per cent.
 Percentage of volatile matter in "dry coal," 37.37 per cent.
 Percentage of sulphur in "dry coal," 0.9 per cent.
 British thermal units per pound of "dry coal," 14,200.
 Commercial name of coal, Smithers Creek (three-fourths gas).
 Name of mine or mines, No. 112 and No. 219.
 Location of mine or mines, Carbondale, W. Va.
 Railroad on which mine is located, Kanawha & Michigan.
 Name or other designation of the coal bed or beds, No. 2 gas.
 Name of operator of mine or mines, Kanawha & Hocking Coal & Coke Co.
 Original estimated cost, \$5 per ton.
 Funds are available under the various appropriations.

DETROIT (MICH.) DISTRICT.

[Officer: Lieut. Col. F. W. Altstaetter, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for furnishing and erecting steel lock gates for Fourth Lock at St. Marys Falls Canal, Mich., received in response to advertisement and publicly opened Mar. 15, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: St. Marys River, Mich. Fourth Lock.]

Name and address of bidder.	Class A, 1,910,000 pounds.	Class B, 43,000 pounds.	Class C, 232,000 pounds.	Class D, 47,000 pounds.	Class E, 2,700 pounds.	Class F, 500 pounds.	Total.
1. Milwaukee Bridge Co., Milwaukee, Wis. ¹	<i>Per lb.</i> \$0.0875	<i>Per lb.</i> \$0.30	<i>Per lb.</i> \$0.18	<i>Per lb.</i> \$0.12	<i>Per lb.</i> \$0.85	<i>Per lb.</i> \$0.50	\$229,970.00
2. Penn Bridge Co., Beaver Falls, Pa. ....	.0983	.245	.137	.114	.98	1.00	238,576.00
3. Independent Bridge Co., Pittsburgh, Pa. ....	.1095	.30	.15	.10	1.00	.50	264,495.00
4. The Whitehead & Kales Iron Works, Detroit, Mich. ....	.102	.39	.184	.165	1.20	1.00	265,773.00
5. J. & J. B. Milholland Co., Pittsburgh, Pa. ....	.116	.25	.16	.095	.90	.40	276,525.00
6. Chicago Bridge & Iron Co., Chicago, Ill. ....	.15	.30	.30	.30	1.50	1.50	387,900.00
Estimate.....	.09	.15	.09	.06	.70	.40	204,140.00

¹ Contract entered into Apr. 2, 1917.

Abstract of proposals for furnishing and placing stone riprap along the lake face of the main and south breakwaters at Harbor Beach, Mich., received in response to advertisement and publicly opened Apr. 16, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: Maintenance and improvement of existing river and harbor works harbor of refuge, Harbor Beach, Mich.]

Name and address of bidder.	Stone in core of structure, 23,000 short tons.	Large stone on exposed slope, 51,000 short tons.	White oak fenders, 10,400 feet b. m.	Total.
1. Thomas L. Durocher, Marquette, Mich.¹.....	\$1.74	\$2.27	\$77.00	\$156,590.80
2. Great Lakes Dredge & Dock Co., Chicago, Ill. Estimate.....	2.23 1.75	2.95 2.10	75.00 80.00	202,520.00 148,182.00

¹ Contract entered into Apr. 26, 1917.

Abstract of proposals for furnishing and delivering steel and iron for east approach piers, fourth lock, St. Marys Falls Canal, Mich., received in response to advertisement and publicly opened May 17, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: Improving St. Marys River, Mich., fourth lock.]

Name and address of bidder.	Tie rods and nuts, 34,450 pounds.	Turn-buckles, clevises, and sleeve nuts, 4,250 pounds.	Plate washers, 13,000 pounds.	Square twisted bars, 12,750 pounds.	Ship channels, 10,450 pounds.	Machine bolts, 1,200 pounds.	Total.
The Oregonia Bridge Co., Lebanon, Ohio...per pound...	\$0.095	\$0.095	\$0.089	\$0.0585	\$0.072	\$0.095	\$6,445.58
Estimate.....do.....do.....	.045	.14	.035	.035	.04	.05	3,567.00

Bid rejected.

Abstract of proposals for furnishing and delivering electric cables and wire at Sault Ste. Marie, Mich., received in response to advertisement and publicly opened May 1, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: Improving St. Marys River, Mich., fourth lock.]

Name and address of bidder, Hazard Manufacturing Co., Wilkes-Barre, Pa.

Lot and item.	Articles.	Amount.	Estimate.
Lot A.....			\$8,814.00
1.....	2,300 feet, at \$0.179.....	\$411.70	
2.....	800 feet, at .51.....	408.00	
3.....	2,400 feet, at 1.00.....	2,400.00	
4.....	2,025 feet, at .83.....	1,680.75	
5.....	1,500 feet, at 1.15.....	1,725.00	
6.....	250 feet, at 2.05.....	512.50	
7.....	1,000 feet, at .155.....	155.00	
8.....	2,000 feet, at .17.....	340.00	
9.....	1,500 feet, at .40.....	600.00	
10.....	12,000 feet, at .31.....	3,720.00	
Lot B.....			581.75
11.....	325 feet, at 2.05.....	666.25	
12.....	200 feet, at .83.....	166.00	
13.....	300 feet, at .51.....	153.00	
14.....	345 feet, at .62.....	213.90	
Lot C.....			1,473.00
15.....	3,500 feet, at .16.....	560.00	
16.....	1,000 feet, at .14.....	140.00	
17.....	3,000 feet, at .17.....	510.00	
18.....	1,000 feet, at .08.....	80.00	
19.....	1,000 feet, at .04.....	40.00	
20.....	1,000 feet, at .025.....	25.00	
21.....	5,000 feet, at .02.....	100.00	
Lot D.....			480.00
22.....	2,200 feet (no bid).....		
23.....	1,200 feet (no bid).....		
Total.....		14,607.10	11,348.75

Bid rejected.

Abstract of proposals for furnishing and delivering about 1,226,000 feet b. m. of fir timber, for Fourth Lock at St. Marys Falls Canal, Mich., received in response to advertisement and publicly opened Apr. 30, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: Improving St. Marys River, Mich., fourth lock.]

Name and address of bidder.	12 by 12 inch, 1,196,184 feet b. m.	6 by 12 inch, 12,840 feet b. m.	3 by 12 inch, 9,882 feet b. m.	3 by 10 inch, 3,880 feet b. m.	3 by 8 inch, 3,104 feet b. m.	Total.	Point of shipment.
1. Herbert J. Anderson Co., Portland, Oreg.	<i>Per M.</i> \$12.50	<i>Per M.</i> \$12.50	<i>Per M.</i> \$12.50	<i>Per M.</i> \$12.25	<i>Per M.</i> \$12.50	\$15,322.66	Portland, Oreg.
2. Saari-Tully Lumber Co., Portland, Oreg. ¹	12.75	12.75	12.75	12.75	12.75	15,630.11	Whites, Wash.
3. Juncan Lumber Co., Portland, Oreg.	12.90	12.90	12.00	12.00	11.00	15,795.69	Napavine, Wash.
4. H. B. Waite Lumber Co., Minneapolis, Minn.	12.90	12.90	12.90	12.90	12.90	15,813.98	Granite Falls, Wash., and other points tak- ing no higher rates.
5. Fant & Russell (Inc.), Portland, Oreg.	13.00	13.00	13.00	13.00	13.00	15,936.57	Portland, Oreg.
6. Pacific States Lumber Co., Tacoma, Wash.	13.00	13.00	13.00	13.00	13.00	15,936.57	Sellock, Mineral, Wash.
7. Sullivan & Forbes (Inc.), Portland, Oreg.	13.00	13.00	13.00	13.00	13.00	15,936.57	Vancouver, Centralia, Roy, Wash.
8. The Charles Nelson Co., San Francisco, Cal.	13.95	13.95	13.95	13.95	13.95	17,101.17	Mukilteo, Port Ange- les, Wash.
9. Hammond Lumber Co., San Francisco, Cal.	14.00	14.00	14.00	14.00	13.50	17,160.91	Astoria, Oreg.
10. Puget Sound Mills & Timber Co., Port Ange- les, Wash.	14.00	14.00	14.00	14.00	14.00	17,162.47	Mukilteo, Port Ange- les, Wash.
11. William D. Gill & Son (Inc.), Baltimore, Md.	14.75	14.75	14.75	14.75	14.75	18,081.87	Various places in Washington and Oregon.
12. Export & Domestic Hardware Co., New York, N. Y.	17.00	17.00	17.00	17.00	17.00	20,840.13	Tacoma, Wash.
13. G. Elias & Bro., Buf- falo, N. Y.	17.00	17.00	17.00	17.00	17.00	20,840.13	Mills taking same rate as Seattle, Wash., or Portland, Oreg.
Estimate.....	11.00	11.00	11.00	11.00	11.00	13,500.00	

¹ Contract entered into May 31, 1917.

Abstract of proposals for dredging Black River at Port Huron, Mich., received in response to advertisement and publicly opened May 3, 1917, by Lieut. Col. H. Burgess, Corps of Engineers.

[Appropriation: Maintenance and improvement of existing river and harbor works and Black River at Port Huron, Mich.]

Name and address of bidder.	Per cubic yard, scow measure- ment.
1. Great Lakes Dredge & Dock Co., Detroit, Mich. ¹	\$0.16
2. Arthur E. Breyman, Toledo, Ohio.....	.16½
3. Greiling Bros. Co., Green Bay, Wis.....	.18
4. Muir-O'Sullivan Dredge & Dock Co., Port Huron, Mich.....	.18½
5. Duluth-Superior Dredging Co., Duluth, Minn.....	.19
Estimate.....	.13

¹ Contract entered into June 14, 1917.

CLEVELAND (OHIO) DISTRICT.

[Officer: Maj. P. S. Bond, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for constructing shore connection at Lorain Harbor, Ohio, received and opened by Maj. P. S. Bond, Corps of Engineers, on May 21, 1917.

[Appropriation: Harber at Lorain, Ohio.]

	Estimated quantity.	Unit price bid.	Item total.
Fabricating and driving special steel piles, complete with anchorage, each.....	13	\$375.00	\$4,875.00
Furnishing and driving special steel end pile, complete with fastening to pier.....	1	500.00	500.00
Furnishing, driving, and cutting off wooden anchor piles, each.....	16	45.00	720.00
Driving regular steel sheet piles, each.....	91	21.00	1,911.00
Furnishing and placing tie-rods, complete, with upset ends, nuts, and washers, each.....	16	48.00	768.00
Furnishing and placing waling on anchor piles, per linear foot.....	107	1.60	171.20
Furnishing and placing fender, complete with bolts, nuts, and washers, linear feet.....	112	4.50	504.00
Riprap stone, per ton of 2,000 pounds.....	600	2.50	1,500.00
Furnishing and driving anchor sheeting, fastened to waling, each.....	63	8.00	504.00
Furnishing and placing channel waling for anchor rods, per linear foot.....	112	3.00	336.00
Total of bid.....			11,789.20

¹ Rejected.

One bid received, Great Lakes Dredge & Dock Co., Cleveland, Ohio.

Abstract of proposals for constructing stone superstructure on breakwater at Cleveland Harbor, Ohio, received and opened by Maj. P. S. Bond, Corps of Engineers, on July 11, 1916.

[Appropriation: Maintenance and improvement of existing river and harbor works (act of Oct. 2, 1914) Cleveland Harbor, Ohio.]

Name and address of bidder.	1. Removing old superstructure, per linear foot.	2. Tie-rods complete in place, each.	3. Re-handling stone, per ton of 2,000 pounds, in place.	4. New superstructure, per ton of 2,000 pounds, in place.	5. Concrete, per cubic yard.	Total of bid.
1. The Edw. Gillen Dock, Dredge & Construction Co., Racine, Wis.....	\$5.00	\$13.00	\$1.25	\$1.50	\$15.00	¹ \$50,375.00
2. Great Lakes Dredge & Dock Co., Cleveland, Ohio.....	9.50	18.50	.70	1.56	13.50	57,496.50
3. Coast & Lakes Contracting Corporation, New York City.....	9.90	25.00	1.50	1.75	10.00	64,670.00

¹ Accepted.

Estimated quantities: (1) 1,550 linear feet; (2) 175; (3) 3,000 tons; (4) 21,400 tons; (5) 300 cubic yards.

Abstract of proposals for repairing rubble mound, east breakwater, and placing riprap in front of west breakwater at Cleveland Harbor, Ohio, received and opened by Maj. P. S. Bond, Corps of Engineers, on May 11, 1917.

[Appropriation: Harbor at Cleveland, Ohio—general improvement, river and harbor act of July 27, 1916.]

Name and address of bidder.	New stone, east and west breakwater, 28,000 tons.	Rehandling stone, east breakwater, 200 hours.	Total of bid.
1. The Central Dredging Co., Cleveland, Ohio.....	Per ton. \$2.85	Per hour. \$30.00	¹ \$85,800

¹ Rejected.

BUFFALO (N. Y.) DISTRICT.

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

RIVERS AND HARBORS.

Proposals for service of steam tug during season of 1917, received in response to advertisement of 30 days and opened at Buffalo, N. Y., Mar. 10, 1917, by Maj. L. V. Frazier-Corps of Engineers.

[Harbors on Lake Ontario and St. Lawrence River.]

Name and address of bidders.	Services of steam tug per calendar day.	Total estimate for 9 months' service.
1. A. R. Hinckley, Oswego, N. Y.....	\$14.00	\$3,850.00
2. Jeremiah Donovan, Oswego, N. Y.....	15.00	4,125.00

No. 1 accepted and contract of lease made.

Abstract of proposals for construction of office-storehouse building and six operating houses at Black Rock Lock, and storehouse at Ferry Street Bridge, Buffalo, N. Y., opened under advertisement and specifications Aug. 21, 1916, at Buffalo, N. Y., by Maj. L. V. Frazier, Corps of Engineers.

[Improving Black Rock Harbor, N. Y.]

Name and address of bidder.	Office-storehouse building (lump sum).						
	219 foundation piles 40 feet long in place per pile.		Per 5 feet of additional length.	1. Excavation, filling, and grading.	2. Concrete retaining and building walls and foundation to first-floor level.	3. Brick and terra-cotta work of all kinds.	3. Cut cast stone trimmings in place of terra cotta.
	Unit price.	Total price.					
1. W. S. Crooker, Buffalo, N. Y.....	\$12.00	\$2,628.00	\$2.50	\$6,250.00	\$5,860.85	\$14,766.00	.....
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	14.00	3,066.00	5.00	10,000.00	9,000.00	13,600.00	\$13,100.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	14.54	3,184.26	3.00	2,353.00	5,192.00	14,999.00	14,486.00
4. The Durolithic Co., Buffalo, N. Y. ¹	13.80	3,022.20	2.90	1,941.00	6,650.00	15,409.00	.....
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	20.00	4,380.00	2.50	6,460.00	6,930.00	14,512.00	13,319.00

Name and address of bidder.	Office-storehouse building (lump sum).					
	4. Fire-proofing floor slabs, roof arches, partitions, etc.	5. Roofing and sheet metal work.	6. Structural iron and steel and miscellaneous metal work.	7. Furring, lathing, and plastering.	8. Cement composition and tile floors.	9. Marble and slate.
1. W. S. Crooker, Buffalo, N. Y.....	\$5,599.20	\$1,332.12	\$9,116.76	\$2,448.00	\$1,434.31	\$716.04
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	4,000.00	1,500.00	10,000.00	2,500.00	400.00	1,000.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	9,249.00	1,583.00	12,636.00	2,909.00	1,516.00	(²)
4. The Durolithic Co., Buffalo, N. Y. ¹	6,703.00	1,332.00	12,192.00	2,760.00	1,753.00	\$80.00
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	7,020.00	\$87.00	9,860.00	2,577.00	1,451.00	5,720.00

Item No. 2, additional length of piles not included in totals, the amount being indeterminable.

¹ All bids rejected as excessive.² Included in No. 8.

Abstract of proposals for construction of office-storehouse building and six operating houses at Black Rock Lock, and storehouse at Ferry Street Bridge, Buffalo, N. Y., opened under advertisement and specifications Aug. 21, 1916, at Buffalo, N. Y., by Maj. L. V. Frazier, Corps of Engineers—Continued.

Name and address of bidder.	Office-storehouse building.					
	10. Carpentry work, doors, wooden windows, sash, floors, etc.	11. Glazing, painting.	12. Hardware.	13. Plumbing and gas fitting, including fixtures.	14. Water supply main (office storehouse).	15. Heating apparatus, complete, including pump wellvent system.
1. W. S. Crooker, Buffalo, N. Y.....	\$5,286.66	\$971.04	\$1,780.92	\$3,504.72	\$1,763.58	\$2,265.42
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	3,300.00	1,100.00	1,800.00	3,500.00	1,750.00	2,500.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	4,610.00	1,188.00	1,880.00	5,086.00	1,091.00	2,693.00
4. The Duroolithic Co., Buffalo, N. Y. ¹	3,616.00	1,317.00	2,300.00	3,715.00	971.00	2,552.00
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	1,088.00	1,234.00	1,942.00	4,430.00	812.00	2,470.00
Name and address of bidder.	Office-storehouse building (lump sum).		Total for office-storehouse.		Two operating houses A and B (each).	
	16. Electrical work, including fixtures and telephones.	17. Elevator.	With terra-cotta trimmings.	With cut cast stone trimmings.	With terra-cotta exterior walls.	With cut cast stone exterior walls.
1. W. S. Crooker, Buffalo, N. Y.....	\$3,771.96	\$2,544.90	\$69,412.48	.....	\$17,047.00	.....
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	3,500.00	2,500.00	71,950.00	\$71,450.00	34,512.00	\$30,912.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	4,244.00	2,938.00	74,167.00	73,654.00	18,652.00	18,632.50
4. The Duroolithic Co., Buffalo, N. Y. ¹	3,925.00	2,875.00	70,891.00	.....	18,500.00	17,500.00
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	4,012.00	2,540.00	73,925.00	72,732.00	37,862.00	38,028.00
Name and address of bidder.	Total for operating houses A and B.		Three operating houses C, D, and F (each).		Total for operating houses C, D, and F.	
	With terra-cotta exterior walls.	With cut cast stone exterior walls.	With terra-cotta exterior walls.	With cut cast stone exterior walls.	With terra-cotta exterior walls.	With cut cast stone exterior walls.
1. W. S. Crooker, Buffalo, N. Y.....	\$34,094.00	.....	\$9,097.00	.....	\$27,291.00	.....
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	69,024.00	\$61,824.00	24,321.00	\$23,271.00	72,963.00	\$69,813.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	37,304.00	37,265.00	9,985.00	9,674.33	29,955.00	29,023.00
4. The Duroolithic Co., Buffalo, N. Y. ¹	37,000.00	35,000.00	9,500.00	.....	28,500.00	.....
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	75,724.00	76,056.00	27,714.00	25,959.00	83,142.00	77,877.00

¹ All bids rejected as excessive.

Abstract of proposals for construction of office-storehouse building and six operating houses at Black Rock Lock, and storehouse at Ferry Street Bridge, Buffalo, N. Y., opened under advertisement and specifications Apr. 21, 1916, at Buffalo, N. Y., by Maj. L. V. Frazier, Corps of Engineers—Continued.

Name and address of bidder.	One operating house E.		One storehouse at Ferry Street, complete as stated.		Grand total for all work specified.	
	With terra-cotta exterior walls.	With cut cast stone exterior walls.	With terra-cotta trimmings.	With cut cast stone trimmings.	If houses have terra-cotta exterior walls or trimmings.	If houses have cut cast stone exterior walls or trimmings.
1. W. S. Crooker, Buffalo, N. Y.....	\$18,691.00	.....	\$6,173.00	.....	\$158,289.48	.....
2. Mosier & Summers (Inc.), Buffalo, N. Y.....	19,159.00	\$17,259.00	6,486.00	\$5,986.00	242,648.00	\$229,398.00
3. John W. Cowper Co. (Inc.), Buffalo, N. Y.....	20,960.00	19,094.00	6,533.00	6,233.00	172,103.26	168,453.26
4. The Durolithic Co., Buffalo, N. Y. 1	19,500.00	18,500.00	5,700.00	5,700.00	164,613.20	.....
5. Eastern Concrete Steel Co., Buffalo, N. Y.....	19,704.00	17,888.00	5,670.00	5,280.00	262,545.00	254,213.00

¹ All bids rejected as excessive.

Abstract of proposals for construction of office-storehouse building and 6 operating houses at Black Rock Lock, and storehouse at Ferry Street Bridge, Buffalo, N. Y., opened under advertisement and specifications Mar. 15, 1917, at Buffalo, N. Y., by Maj. L. V. Frazier, Corps of Engineers.

[Improving Black Rock Harbor, N. Y.]

Name and address of bidder.	Office-storehouse building (lump sum).						
	219 foundation piles 40 feet long in place per pile.		Per 5 feet of additional length.	1. Excavation, filling, and grading.	2. Concrete retaining and building walls and foundation to first-floor level.	3. Brick and terra-cotta work of all kinds.	3a. Cut cast-stone trimmings in place of terra-cotta.
	Unit price.	Total price.					
1. C. H. Everitt, Buffalo, N. Y.....	\$18	\$3,942	\$2	\$5,050	\$6,100	\$15,240	\$16,240

Name and address of bidder.	Office-storehouse building (lump sum).					
	4. Fire-proofing floor slabs, roof arches, partitions, etc.	5. Roofing and sheet-metal work.	6. Structural iron and steel and miscellaneous metal work.	7. Furring, lathing, and plastering.	8. Cement, composition, and tile floors.	9. Marble and slate
1. C. H. Everitt, Buffalo, N. Y.....	\$4,580	\$1,339	\$13,300	\$2,710	\$1,759	\$895

Name and address of bidder.	Office-storehouse building (lump sum).					
	10. Carpentry work, doors, wooden windows, sash, floors, etc.	11. Glazing, painting.	12. Hardware.	13. Plumbing and gas fitting, including fixtures.	14. Water-supply main (office storehouse).	15. Heating apparatus, complete, including pump and well vent system.
1. C. H. Everitt, Buffalo, N. Y.....	\$4,550	\$1,250	\$2,100	\$4,975	\$2,000	\$2,850

Abstract of proposals for construction of office-storehouse building and 6 operating houses at Black Rock Lock, and storehouse at Ferry Street Bridge, Buffalo, N. Y., opened under advertisement and specifications Mar. 15, 1917, at Buffalo, N. Y., by Maj. L. V. Frazier, Corps of Engineers—Continued.

Name and address of bidder.	Office-storehouse building (lump sum).		Total for office storehouse.		Two operating houses A and B (each).	
	16. Electrical work, including fixtures and tele-phones.	17. Elevator.	With terra-cotta trimmings.	With cut cast-stone trimmings.	With terra-cotta exterior walls.	With cut cast-stone exterior walls.
1. C. H. Everitt, Buffalo, N. Y.....	\$4, 200	\$2, 800	\$75, 698	\$76, 698	\$17, 612	\$16, 712

Name and address of bidder.	Total for operating houses A and B.		Three operating houses C, D, and F (each).		Total for operating houses C, D, and F.	
	With terra-cotta exterior walls.	With cut cast-stone exterior walls.	With terra-cotta exterior walls.	With cut cast-stone exterior walls.	With terra-cotta exterior walls.	With cut cast-stone exterior walls.
1. C. H. Everitt, Buffalo, N. Y.....	\$35, 224	\$33, 424	\$10, 148	\$10, 123	\$30, 444	\$30, 369

Name and address of bidder.	One operating house E.		One storehouse at Ferry Street complete as stated.		Grand total for all work specified.	
	With terra-cotta exterior walls.	With cut cast-stone exterior walls.	With terra-cotta trimmings.	With cut cast-stone trimmings.	If houses have terra-cotta exterior walls or trimmings.	If houses have cut cast-stone exterior walls or trimmings.
1. C. H. Everitt, Buffalo, N. Y.....	\$21, 020	\$20, 170	\$5, 924	\$5, 224	\$172, 252	.....

If variegated Indiana limestone is substituted in place of cut cast stone, deduct \$3,200.
 If Ohio buckeye gray sandstone is substituted in place of cut cast stone, add \$2,200.
 All bids rejected as excessive.

LOS ANGELES (CAL.) DISTRICT.

[Officer: Capt. Chas. T. Leeds, U. S. Army, retired.]

FORTIFICATIONS.

Abstract of proposals for furnishing crushed rock or gravel at Fort MacArthur, Cal., opened at Los Angeles, Cal., at 11 a. m., July 27, 1916, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation: Gun and mortar batteries.]

Name and address of bidder.	Price per ton.	For furnishing 8,000 tons.
1. Russell-Greene-Foell Co., Los Angeles, Cal. ¹	\$0.865	\$6,920
2. Pacific Rock & Gravel Co., Los Angeles, Cal. ....	.90	7,200
3. Standard Rock Products Co., Los Angeles, Cal.	1.10	8,800

¹ Accepted.

Abstract of proposals for excavating at Fort MacArthur, Cal., opened at Los Angeles, Cal., at 11 a. m., Aug. 5, 1916, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation: Gun and mortar batteries.]

Name and address of bidder.	Price per cubic yard.	For excavating 13,000 cubic yards.
1. R. H. McCray, Los Angeles, Cal.....	\$0.345	\$4,485.00
2. Chas. G. Willis, Los Angeles, Cal.....	.48	6,240.00
3. Rogers Bros. Co., Los Angeles, Cal.....	.495	6,435.00
4. John F. Dodson, San Pedro, Cal. ¹.....	.325	4,225.00
5. Wattson & Spicer, Los Angeles, Cal.....	.44	5,720.00
6. H. M. Snyder, Los Angeles, Cal.....	2.35-.70	4,996.25

¹ Accepted.

² For excavating to floor level, 35 cents per cubic yard, 11,725 cubic yards; 70 cents per cubic yard for excavating gun pits, 1,275 cubic yards.

Abstract of proposals for furnishing cement, sand, and stone at Fort MacArthur, Cal., opened at Los Angeles, Cal., at 11 a. m., Sept. 15, 1916, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation: Gun and mortar batteries.]

PORTLAND CEMENT.

Name and address of bidder.	Price per barrel.	For 16,500 barrels.
1. Golden State Portland Cement Co., Los Angeles, Cal.....	\$1.78	\$32,930
2. Riverside Portland Cement Co., Los Angeles, Cal. ¹	1.73	32,005
3. California Portland Cement Co., Los Angeles, Cal.....	1.75	32,375

¹ Accepted.

SAND OR ROCK SCREENINGS.

Name and address of bidder.	Price per ton for sand.	For 11,000 tons.	Price per ton for screenings.	For 11,000 tons.
4. Russell-Greene-Foell Co., 2644 Compton Avenue, Los Angeles, Cal.....	\$0.65	\$7,150.00	.....	.....
5. Pacific Rock & Gravel Co., 498 P. E. Building, Los Angeles, Cal. ¹.....	.65	7,150.00	\$0.70	\$7,700.00

¹ Accepted.

STONE.

Name and address of bidder.	Price per ton.	For 22,000 tons.
4. Russell-Greene-Foell Co., 2644 Compton Avenue, Los Angeles, Cal. ¹	\$0.85	\$18,700.00
5. Pacific Rock & Gravel Co., 498 P. E. Building, Los Angeles, Cal.....	.84	18,480.00

¹ Accepted.

Abstract of proposals for excavating at Fort MacArthur, Cal., opened at Los Angeles, Cal., at 11 a. m., Feb. 3, 1917, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation, "Gun and mortar batteries."]

Name and address of bidder.	For haul less than 600 feet, per cubic yard.	For excavating 11,000 cubic yards.	For haul more than 600 feet, per cubic yard.	For excavating 14,000 cubic yards.	Total.
1. R. H. McCray Co., Los Angeles, Cal. ¹	\$0.27	\$2,970.00	\$0.31	\$4,340.00	\$7,310.00
2. Brashear-Burns Co., Los Angeles, Cal.....	.35	3,850.00	.42	5,880.00	9,730.00
3. John F. Dodson & C. R. Butterfield, San Pedro, Cal.....	.32	3,520.00	.42	5,880.00	9,400.00
4. J. A. Hill, Los Angeles, Cal.....	.36	3,960.00	.30	4,200.00	8,160.00
5. Charles G. Willis, Los Angeles, Cal.....	.29	3,190.00	.425	5,950.00	9,140.00

¹ Accepted.

Abstract of proposals for furnishing sand for back fill at Fort MacArthur, Cal., opened at Los Angeles, Cal., at 11 a. m., Feb. 12, 1917.

[Appropriation, "Gun and mortar batteries."]

Name and address of bidder.	Per cubic yard.	For 16,650 cubic yards.
1. Dodson & Butterfield, San Pedro, Cal. ¹	\$0.55	\$9,157.00
2. Venice Contracting Co., Venice, Cal.....	.99	16,483.50
3. R. H. McCray Co., Los Angeles, Cal.....	1.45	24,142.50

¹ Accepted.

Abstract of proposals for grading at Fort Rosecrans, Cal., opened at Los Angeles, Cal. at 11 a. m., Apr. 10, 1917, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation: "Gun and mortar batteries."]

Name and address of bidder.	For road K per cubic yard.	Total for 8,600 cubic yards.	For road E per cubic yard.	Total for 7,800 cubic yards.	Total.
1. Olof Nelson, San Diego, Cal. ¹	\$0.45	\$3,870	\$0.53	\$4,134	\$8,004
2. Holland Construction Co., Los Angeles, Cal.....	.28	2,408	.28	2,184	4,592
3. Jonas Hansson, San Diego, Cal.....	.47	4,042	.54	4,212	8,254
4. H. G. Fenton, San Diego, Cal.....	.38	3,268	.58	4,524	7,792
5. John Engebretsen, San Diego, Cal.....	.67	5,762	.74	5,772	11,534

¹ Accepted.

RIVERS AND HARBORS.

Abstract of proposals for repairing dike at Old Town, San Diego Harbor, Cal., opened at Los Angeles, Cal., at 11 a. m., July 17, 1916, by Maj. G. B. Pillsbury, Corps of Engineers.

[Appropriation: "Improving harbor at San Diego, Cal."]

Name and address of bidder.	Earthwork.		Riprap stone.		Total.
	Per cubic yard.	For 10,000 cubic yards.	Per ton.	For 3,000 tons.	
1. John Engebretsen, San Diego, Cal.....	\$0.395	\$3,950	\$1.70	\$5,100	\$9,050
2. Jonas Hansson, San Diego, Cal.....	.34	3,400	1.64	4,920	8,320
3. H. G. Fenton, San Diego, Cal. ¹.....	.33	3,300	1.28	3,840	7,140
4. Pioneer Truck Co., San Diego, Cal.....	.345	3,450	1.70	5,100	8,550
5. Hunter Bros., Los Angeles, Cal.....	.73	7,300	3.00	9,000	16,300
6. W. N. Parker, San Diego, Cal.....	.32	3,200	2.10	6,300	9,500
7. M. D. Goodbody, San Diego, Cal.....	.85	8,500	2.75	8,250	16,750
8. M. D. Goodbody, San Diego, Cal.....	.38	3,800	2.05	6,150	9,950
8. E. A. McAlpine, San Diego, Cal.....	.42	4,200	1.30	3,900	8,100
9. C. J. Smith, San Diego, Cal.....	.42	4,200	1.59	4,770	8,970

¹ Accepted.

SAN FRANCISCO (CAL.), FIRST DISTRICT.

[Officer, Col. W. H. Heuer, United States Army, retired.]

RIVERS AND HARBORS.

Abstract of bids for hire and operation of launch and lighters for use in connection with the work of rebuilding the jetties at entrance to Humboldt Bay, Cal., opened at Eureka, Cal., May 18, 1916, by George F. Whittemore, assistant engineer.

Name and address.	For launch.		For lighters.	
	Per day.	Per hour.	Per day.	Per hour.
Coggeshall Launch Co., Eureka, Cal.....	\$10.00	\$2.50	\$2.50	\$0.50
H. H. Cousins, Eureka, Cal.....	20.00	2.50	.....	.....

Abstract of bids for furnishing and erecting car ferry apron at south jetty, Humboldt Bay, Cal., opened at San Francisco, Cal., Nov. 6, 1916, by Col. Thos. H. Rees, Corps of Engineers.

Name and address.	Alternative bid No. 1, for furnishing and delivering parts and material at site, without erection.		Alternative bid No. 2, for erecting apron in place after parts and material have been furnished and delivered.		Bid for whole job.	
	Price per pound.	Total.	Price per pound.	Total.	Price per pound.	Total.
Vulcan Iron Works, San Francisco.....	\$0.0798	\$5,051.34	.....	.....	.....	.....
Ralston Iron Works, San Francisco.....	.0622	3,937.00	.....	.....	.....	.....
California Construction Co., San Francisco.....	.....	.....	.....	\$1,100.00	\$0.08	\$5,064.00
Pacific Rolling Mill Co., San Francisco.....	.0745	4,715.85	.....	.....	.....	.....
Eureka Boiler Works, Eureka, Cal.....	.0775	4,905.75	\$0.0225	1,424.25	.....	6,330.00
Mercer-Fraser Co., Eureka, Cal.....	.....	.....	.....	.....	.09463	5,990.00
Schrader Iron Works, San Francisco.....	.0645	4,127.85	.....	.....	.....	.....

Abstract of bids for constructing three buildings at South Jetty, Humboldt Bay, Cal., opened at Eureka, Cal., Aug. 16, 1916, by George F. Whittemore, assistant engineer.

Name and address.	Amount of bid.
Pine & Malcolm, Eureka, Cal.....	\$493
Mercer-Fraser Co., Eureka, Cal.....	845
Clarence E. Tabor, Eureka, Cal.....	1,274
Poland & Robinson, Eureka, Cal.....	2,130

¹ Price stated to be in error. Contractor unable to do work at prices stated in proposal.

² Bid covers material and labor; labor only required.

Abstract of bids for erecting two tanks and foundations at South Jetty, Humboldt Bay, Cal., opened at Eureka, Cal., Aug. 16, 1916, by George F. Whittemore, assistant engineer.

Name and address.	Amount of bid.
Mercer-Fraser Co., Eureka, Cal.....	\$451
Clarence E. Tabor, Eureka, Cal.....	378
Poland & Robinson, Eureka, Cal.....	11,697

¹ Bid covers material and labor; labor only required.

Abstract of bids for dredging in Oakland Harbor, Cal., opened at San Francisco, Cal., Dec. 27, 1916, by Col. Thomas H. Rees, Corps of Engineers.

Name and address.	Price per cubic yard.	Total for 520,000 cubic yards.
American Dredging Co., San Francisco, Cal.....	Cents. 8.42	\$86,894.40
Standard American Dredging Co., Oakland, Cal.....	8.7	89,784.00
San Francisco Bridge Co., San Francisco, Cal.....	7.4	76,368.00

Abstract for bids for dredging in Petaluma Creek, Cal., opened at San Francisco, Cal., June 30, 1917, by Col. W. H. Heuer, United States Army, retired.

Name and address.	Price per cubic yard.	Total for 18,111 cubic yards.
Marshall C. Harris, San Francisco, Cal.....	Cents. ¹ 17½	\$3,169.42

¹ Section A.

SAN FRANCISCO (CAL.) THIRD DISTRICT.

[Officer, Maj. L. H. Rand, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals for dredging in San Joaquin River and Stockton Channel, Cal., opened at San Francisco, Cal., at 10 a. m., July 5, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriation, "Improving San Joaquin River, Cal. (maintenance)."]

No.	Name and address.	Price bid per cubic yard.	Price bid for 21,000 cubic yards.	Capacity of plant, cubic yards per hour.	Plant proposed.	Remarks.
1	Pacific Coast Dredging & Reclamation Co., San Francisco, Cal.	Cents. 33	\$6,930	80	Clamshell Dredger No. 5; 1 mud barge, 320 cubic yards; 1 mud barge, 250 cubic yards; tow boat; oil barge; water barge, etc.	Has not facilitates for furnishing accommodations and meals for inspectors. Certified check accompanied proposal.
2	American Dredging Co., San Francisco, Cal.	98	20,580	250	Hydraulic dredger Yankee.	Has facilities for furnishing accommodations and meals for inspectors. Proposal in proper form.
3	Standard American Dredging Co., Oakland, Cal.	18.4	3,864	200	Hydraulic dredge Wilmington.	Has not facilities for furnishing accommodations and meals for inspectors. Proposal in proper form.
4	Antioch Dredging Co., San Francisco, Cal.	19.3	4,053	200	Clamshell dredge Gabilan; 3-yard bucket; 185-foot boom; capacity, 140 cubic yards per hour; also clamshell turntable dredger Woodward, 1½ yard bucket, 60-foot boom, capacity, 60 cubic yards per hour; 2 dump barges, 350 and 250 cubic yards capacity.	Has facilities for furnishing meals and accommodations for inspectors. Certified check accompanied proposal.

Abstract of proposals for dredging in San Joaquin River, Cal., opened at San Francisco, Cal., at 10 o'clock a. m., July 5, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriation, "Improving San Joaquin River, Cal. (9-foot channel and cut-offs)."]

No	Name and address.	Price bid per cubic yard.	Price bid for 52,000 cubic yards.	Capacity of plant, cubic yards per hour.	Plant proposed.	Remarks.
1	Pacific Coast Dredging & Reclamation Co., San Francisco, Cal.	Cents. 28	\$14,560	80	Clamshell dredger No. 5; 1 mud scow, 320 cubic yards; 1 mud scow, 250 cubic yards; tow boat; oil barge; water barge, etc.	Certified check accompanied this proposal. Proposal in proper form.
2	American Dredging Co., San Francisco, Cal.	7½	3,900	150	Clamshell dredger Uncle Sam.	Proposal in proper form.
3	Standard American Dredging Co., Oakland, Cal.	23.4	12,168	200	Hydraulic dredge Wilmington.	Do.
4	Antioch Dredging Co., San Francisco, Cal.	10.7	5,564	140	Clamshell dredger Gabilan; 3-yard bucket, 185-foot boom; hull, 50 by 115 by 10 feet.	Certified check accompanied this proposal. Proposal in proper form.

Abstract of proposals for hire and operation of a clamshell dredging plant for work in Sacramento and Mokelumne Rivers, Cal., opened at San Francisco, Cal., at 10 a. m., July 20, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriations, "Maintenance and improvement of existing river and harbor works, 1915 (Sacramento and Feather Rivers, Cal.), improving Mokelumne River, Cal."]

No.	Bidder.	Price bid per hour for—		Guaranteed output per hour, cubic yards.	Plant proposed.	Remarks.
		Actual dredging.	Time towed or held idle.			
1	The West Rivers Dredging Co., San Francisco, Cal.	\$6.00	\$5.00	200	Dredge Tule King, 400 horsepower engines, bucket 4½ cubic yards, weighing 12 tons; boom 203 feet; bucket and oil barge, 40-foot launch, 30-horsepower engine, complete electric-lighting system. Dredge has accommodations for inspectors.	Proposal in proper form.
2	Antioch Dredging Co., San Francisco, Cal.	4.50	4.00	150	Dredge San Benito, 200 horsepower engines; bucket 3½ cubic yards, weighing 7 tons; boom 154 feet; oil barge and launch.	Do.
3	Golden State & Miners' Iron Works, San Francisco, Cal.	4.25	2.25	(1)	Dredger Samson, 110-horsepower gasoline engines; bucket 2½ cubic yards (water measure), weighing 4½ tons; boom 130 feet; distillate barge and launch.	Proposal submitted with limitation of acceptance of 15 days from date and guaranty so modified. Guaranty deficient in that affidavits as to financial worth not furnished by individual guarantors, and necessary certificate thereto omitted.

¹ Can not compute, depending on character of material.

Abstract of proposals for hire and operation of a clamshell dredging plant for work in Sacramento and Mokelumne Rivers, Cal., opened at San Francisco, Cal., at 10 a. m., July 20, 1916, by Maj. L. H. Rand, Corps of Engineers—Continued.

No.	Bidder.	Price bid per hour for—		Guaranteed output per hour, cubic yards.	Plant proposed.	Remarks.
		Actual dredging.	Time towed or held idle.			
4	Argyle Dredging Co., San Francisco, Cal.	\$5.53	\$5.03	(1)	Dredge Argyle, 400 horsepower engines; bucket 4½ cubic yards, weighing 10½ tons; boom 175 feet; 40-foot launch, 35-horsepower engines, 2 skiffs, 1 extra 10½-ton 4½ cubic yard bucket, oil barge, 600 barrels capacity; not yet built, but to be built in 30 days. Dredge has electric-light plant.	Proposal in proper form.

¹ Swinging from sheer leg to sheer leg, 157½; swinging from straight ahead to sheer leg, 202½.

Abstract of bids for leasing barge and launch opened at San Francisco, Cal., at 10 a. m., Dec. 1, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriation, "Funds contributed for improvement of Sacramento and Feather Rivers, Cal., special fund," and "Sacramento and Feather Rivers, Cal., work at mouth."]

No.	Bidder.	Launch.			Barge.			
		Name or number of launch proposed.	Price bid per month.	Description.	Name or number of barge proposed.	Capacity in tons.	Price bid per month.	Description.
1	Oakland Launch & Tugboat Co., Oakland, Cal.	Ancon	\$150	Length, 42 feet; beam, 12 feet; depth, 4 feet 6 inches; engine 30 horsepower, 2 cylinder Corliss, built in 1912.	No. 1	150	\$74	60 feet long; 24 feet beam; 16 feet depth; draft, light, 12 inches.
2	Wm. D. Nutz, Vallejo, Cal.	Denver	34	Length, 28 feet; beam, about 8 feet; depth, 36 inches; engine 16 horsepower standard, Government built, date not given.	-----	-----	-----	-----
3	San Francisco Bridge Co., San Francisco, Cal.	(1)	-----	-----	(1)	(1)	47	73 feet long; 26 feet 8 inches beam; 6 feet depth. State now in this service.

¹ Not given.

Abstract of bids for leasing launch, opened at San Francisco, Cal., at 10 a. m., Dec. 1, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriations, "Funds contributed for improvement of Sacramento and Feather Rivers, Cal., special fund," and "Sacramento and Feather Rivers, Cal., work at mouth."]

No.	Bidder.	Name or number of launch proposed.	Price bid per month.	Description.
1	Hall, W. J., Sacramento, Cal....	Geof.....	\$200	Length 42 feet 6 inches; beam 8 feet 8 inches; depth 5 feet 7 inches; draft 3 feet 4½ inches; engine 3-cylinder 50-horsepower Samson, built 1910; completely equipped; hull leaks slightly but can be remedied. Engine completely overhauled July, 1916.
2	Doak Gas Engine Co., Oakland, Cal.	Laura.....	310	Length 44 feet; beam 13 feet 9 inches; depth 4 feet 8 inches; engine, Doak 60-horsepower, built in 1913; equipment to comply with United States Steamboat Inspection Service; condition excellent; just completely overhauled. Will lease only under condition that United States will be responsible for all risks ordinarily covered by marine insurance.
3	Oakland Launch & Tugboat Co., Oakland, Cal.	Panama.....	300	Length 52 feet; beam 14 feet; depth 6 feet; engine, Atlas 3-cylinder 80-horsepower heavy-duty, built in 1911, present condition good.

Abstract of proposals for pontoons opened at San Francisco, Cal., at 10 a. m., Dec. 28, 1916, by Maj. L. H. Rand, Corps of Engineers.

[Appropriations, "Sacramento and Feather Rivers, Cal., work at mouth," and "Funds contributed for improvement of Sacramento and Feather Rivers, Cal., special fund."]

No.	Bidder.	Price per pontoon.	Price for 20 pontoons.	Remarks.
1	Wm. S. Brusstar, Oakland, Cal..	\$499.00	\$9,980.00	Bid una-companied by either certified check or guaranty. Letter attached to bid concerning payments in conflict with par. 17 of specifications.
2	Schultze & Schultze, San Francisco, Cal.	475.00	9,500.00	Certified check accompanied proposal. Party signing for firm did not indicate capacity in which signing.
3	Joseph Supple, Portland, Oreg..	322.00	6,440.00	Proposal in proper form.
4	United States navy yard, Mare Island, Cal.	582.50	11,650.00	Estimate only; not on proper form. Unaccompanied by certified check or guaranty.
5	B. P. Lanteri, Pittsburg, Cal....	402.20	8,044.00	Certified check accompanied this proposal.
6	John Monk & Son, San Francisco, Cal.	417.00	8,340.00	Certified check accompanied this proposal. Parties signing for firm did not indicate capacities in which signing.
7	Hanlon Dry Dock & Shipbuilding Co. (Inc.), Oakland, Cal.	479.00	9,580.00	Proposal in proper form.

Abstract of proposals for fuel oil and engine distillate opened at San Francisco, Cal., at 10 o'clock a. m. Feb. 10, 1917, by Maj. L. H. Rand, Corps of Engineers.

No.	Bidder.	Fuel oil.		
		Delivered at—	Price per barrel.	Price for 60,000 barrels.
1	Shell Co. of California, San Francisco, Cal. ¹	<i>Not heavier than 14° B.</i>		
		F. o. b. tanks of dredges.....	\$1.26	\$75,600
		F. o. b. wharf at Martinez.....	1.20	72,000
2	Union Oil Co. of California, San Francisco, Cal. ²	<i>Not heavier than 14° B.</i>		
		F. o. b. tanks of dredges, at list price at time of delivery, plus 12½ cents per barrel for barging.	.....	.....
		F. o. b. wharf at San Francisco, Sacramento, and Oleum, list price at time of delivery.	.....	.....
3	Standard Oil Co., San Francisco, Cal. ⁴	F. o. b. tanks ³ of dredges.....	1.45	\$7,000
		F. o. b. wharf at Pittsburg.....	1.20	72,000

Abstract of proposals for fuel oil and engine distillate opened at San Francisco, Cal., at 10 o'clock a. m. Feb. 10, 1917, by Maj. L. H. Rand, Corps of Engineers—Contd.

No.	Bidder.	Engine distillate.		
		Delivered at—	Price per gallon.	Price for 30,000 gallons.
		48° B.		
1	Shell Co. of California, San Francisco, Cal. ¹	F. o. b. tanks of dredges.....	9½	\$2,850
		<i>Regular commercial grade.</i>		
2	Union Oil Co. of California, San Francisco, Cal. ²	F. o. b. tanks of dredges ³	9½	2,850
		F. o. b. wharf at Rio Vista ³	9½	2,850
		F. o. b. wharf at Oleum ³	9	2,700
		F. o. b. tanks of derdges at wharf at Oleum.....	9	2,700
		<i>Regular engine distillate.</i>		
3	Standard Oil Co., San Francisco, Cal. ⁴	F. o. b. tanks of dredges.....	9½	2,850
		F. o. b. wharf at Oakland, San Francisco, or Richmond.	9	2,700
		F. o. b. wharf, Martinez or Pittsburgh.....	9	2,700
		F. o. b. wharf at Sacramento or Sausalito.....	9½	2,850
		F. o. b. wharf at Collinsville, Jersey, Los Medanos and Dutton Islands.	9½	2,850

¹ Proposal in proper form. Guaranty deficient in that date of proposal guaranteed is not stated.

² Guaranty modified to permit bid to remain open for 15 days only in lieu of 60 days as per guaranty as printed. Allowance to be made for moisture in excess of 2 per cent; specifications provide for but 1 per cent. Discount of 2 per cent for cash on distillate, fuel oil, net.

³ Not less than 14° B.

⁴ Proposal for fuel oil not on proper form. Will not deliver more than 60,000 barrels fuel oil nor more than 45,000 gallons engine distillate. Fuel oil to be accepted before unloading from company's tanks, none to be rejected or any claim allowed after unloading begun. Guaranty deficient in that name of bidder omitted in blank intended therefor.

⁵ In iron drums or barrels.

Abstract of proposals for dredging in San Joaquin River, Cal., opened at San Francisco, Cal., at 10 o'clock a. m., Mar. 27, 1917, by Maj. L. N. Rand, Corps of Engineers.

Bidder.	Price per cubic yard.	Price for 35,700 cubic yards.	Plant proposed.	Remarks.
1. American Dredging Co., San Francisco, Cal.	\$0.0750	\$2,677.50	Clamshell dredge Uncle Sam, with boom 180 feet long, with capacity of 75 to 200 cubic yards per hour according to conditions and quantity of material to be removed above grade.	No evidence of authority furnished by party signing to bind the corporation.
2. Nicholas R. Harris San Francisco, Cal.	.0755	2,695.35	.....do.....	Proposal in proper form.
3. Antioch Dredging Co., San Francisco, Cal.	.1500	5,355.00	Clamshell dredge, Gatllan, 3½-yard bucket, 185-foot boom. Hull 115 by 50 by 10 feet. Can place material 140 feet from side of hull.	Guaranty not satisfactory—furnished by a corporation not legally authorized to guarantee bonds, as provided in par. 573, Army Regulations.

Abstract of proposals for dry docking and repairing United States snag boat Senser, opened at 10 o'clock a. m. Feb. 19, 1917, at San Francisco, Cal., by Maj. L. H. Rand, Corps of Engineers.

[Appropriation: Sacramento and Feather Rivers, Cal., general improvement.]

Bidder.	Hauling out, use of ways, and returning.	Renewing bow stem.	Oak sheathing, per M feet b. m.		Renewing guard shear and rail.	Replacing cylinder timbers and knees.	Renewing fan-tail cross-piece.	Replacing transom-timbers.
			Renewing old.	New.				
1. Pacific Shipyard & Ways Co., San Francisco, Cal. ¹	\$525	\$245	\$90	\$395	\$145	\$360	\$40	\$220
2. Schultze & Schultze, San Francisco, Cal. ²	395	200	142	317	160	325	25	160

Bidder.	Renewing splash board.	Renewing side planking, per M feet.	Calking, per linear foot.	Painting.	Renewing floor timbers, per M feet.	Renewing side timbers, per M feet.	Renewing bottom planks, per M feet.
1. Pacific Shipyard & Ways Co., San Francisco, Cal. ¹	\$50	\$190	\$0.10	\$160	\$400	\$500	\$210
2. Schultze & Schultze, San Francisco, Cal. ²	\$40	175	.15	195	200	200	200

Bidder.	Labor with tools (per hour). ³								
	1	2	3	4	5	6	7	8	9
1. Pacific Shipyard & Ways Co., San Francisco, Cal. ¹	\$0.8500	\$0.5600	\$2.0000	\$0.5600	\$0.8500	\$0.5600	\$0.85	\$0.56	\$0.85
2. Schultze & Schultze, San Francisco, Cal. ².....	.8125	.4375	.6875	.5000	.8125	.6875	.....	.....	.....

Bidder.	Labor with tools (per hour). ³					Stationary shop tools (per hour). ⁴					
	10	11	12	13	14	15	16	17	18	19	20
1. Pacific Shipyard & Ways Co., San Francisco, Cal. ¹	\$0.56	\$0.85	\$0.56	\$1.00	\$0.5600	\$2.00	\$2.00	\$2.00	\$1.50	\$1.50	\$2.50
2. Schultze & Schultze, San Francisco, Cal. ².....	.....	.....	.....	.....	.4375	1.50	1.50	1.50	.....	.....	.....

¹ Ways at Alameda, Cal.

² Ways at San Francisco, Cal.

³ 1, ship carpenters; 2, ship carpenter's helper; 3, blacksmith; 4, blacksmith's helper; 5, calkers; 6, painters; 7, machinist; 8, machinist's helper; 9, boiler maker; 10, boiler maker's helper; 11, steam fitter; 12, steam-fitter's helper; 13, pattern maker; 14, laborers.

⁴ 15, bandsaw, with operator; 16, planer, with operator; 17, joiner or edger, with operator; 18, lathe, with one operator; 19, boring machine, with one operator; 20, cylinder boring bar, with operator and helper.

REMARKS.—Proposals in proper form; certified checks accompanying proposals.

PORTLAND (OREG.), SECOND DISTRICT.

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

RIVERS AND HARBORS.

Abstract of proposals for repairing U. S. dredge "Champog," opened at United States Engineer office, second district, Portland, Oreg., Feb. 16, 1917, in response to advertisement dated Jan. 17, 1917.

[Appropriation: Willamette and Yamhill Rivers, Oreg., for Willamette River above Portland and of Yamhill River.]

Name and address of bidders.	Price bid for the job.
1. Portland Shipbuilding Co., Portland, Oreg.....	\$8,250
2. St. Johns Shipbuilding Co., Portland, Oreg.....	9,475
3. Wilson Bros., Astoria, Oreg.....	13,865

Bids rejected. It was found that funds could be used to better advantage on other work.

Abstract of proposals for stone, opened at United States Engineer office, second district, Portland, Oreg., Aug. 28, 1916, in response to advertisement dated July 28, 1916.

[Appropriation: Mouth of Columbia River, Oreg. and Wash..]

Name and address of bidders.	Quantity, tons of 2,000 pounds.	Price bid per 2,000 pound ton.	Total amount.
1. Columbia Contract Co., Portland, Oreg.....	650,000	\$1.00	\$650,000

Only bid received; accepted; price considered reasonable.

Abstract of proposals for repairing U. S. dredge "Chinook," opened at United States Engineer office, second district, Portland, Oreg., Feb. 15, 1917, in response to advertisement dated Jan. 16, 1917.

[Appropriation: Mouth of Columbia River, Oreg. and Wash.]

Work.	Name and address of bidders.			
	1. W. A. Viggers Iron Works, Portland, Oreg.	2. Helser & Uden Machine Works, (Inc.), Portland, Oreg.	3. Portland Iron Works, Portland, Oreg.	4. Albina Engine & Machine Works, Portland, Oreg.
Dry-dock, clean and paint.....	\$9,441.50	\$3,285.00	\$6,341.00	\$2,575.00
Rudder work:				
Pintle socket work.....	185.00	135.00	143.64	325.00
Zinc plates replaced, approximately 600 pounds....	300.00	570.00	360.00	300.00
Cap screws replaced, approximately 25.....	22.50	25.00	12.50	12.50
Washers replaced, approximately 25.....	2.50	3.75	5.00	3.75
Rivets replaced, approximately 30.....	270.00	105.00	510.00	150.00
Stern bearing and tall shaft work.....	2,124.50	1,464.00	1,647.60	1,400.00
Bin-gate and gate-rod work.....	2,124.00	807.80	1,778.60	1,725.00
Propeller work.....	50.00	75.00	24.00	100.00
Gate and deck winch work.....	1,016.20	725.50	721.90	525.75
Steering-gear work.....	300.00	525.00	171.08	400.00
Main engine work.....	4,614.00	2,525.00	1,848.70	3,850.00
30-inch pump and engine work.....	1,140.00	597.90	973.21	750.00
20-inch pump and engine work.....	864.00	551.20	432.53	575.00
Auxiliary pump work.....	270.00	193.75	301.70	300.00
Hot well work.....	260.00	281.00	94.95	250.00
Boiler work.....	838.00	600.00	480.71	430.00
Pipe-covering work.....	340.00	150.00	185.90	250.00
Trunnion-pipe work.....	326.00	197.00	91.75	250.00
Distributing-valve work.....	246.00	265.00	82.63	270.00
Pipe-line work.....	95.00	49.00	23.47	124.25
Pipe-line davit work.....	2,041.00	1,044.00	1,509.00	4,350.00
Gateway-davit work.....	40.00	80.00	24.00	55.00
Galley, pantry, and saloon work.....	1,144.00	695.00	568.15	950.00
Miscellaneous work.....	565.00	252.00	59.50	425.00
Total amount of bid.....	28,619.20	¹ 15,201.90	18,391.52	20,346.25

¹ Lowest bid; accepted.

COAL.

Abstract of proposals for bituminous coal, opened at United States Engineer office, second district, Portland, Oreg., July 10, 1916, in response to advertisement dated June 10, 1916.

[Appropriation: Mouth of Columbia River, Oreg. and Wash.]

Name and address of bidders.	Quantity, tons of 2,240 pounds.	Price bid, per 2,240 pound ton.	Total amount.
1. Roslyn-Cascade Coal Co., South Bellingham, Wash.....	4,000	\$2.25	\$9,000
2. Geo. W. Sanborn, Astoria, Oreg.....	4,000	2.95	11,800
3. The Roslyn Fuel Co., Seattle, Wash.....	4,000	2.55	10,200
4. Durham Colliery Co., Tacoma, Wash.....	4,000	1 2.20	8,800
5. Pacific Coast Coal Co., Portland, Oreg.....	4,000	3.25	13,000

¹ Accepted: lowest bidder.

SEATTLE (WASH.) DISTRICT.

[Officer: Maj. E. J. Dent, Corps of Engineers.]

RIVERS AND HARBORS.

Abstract of proposals received by Lieut. Col. J. B. Cavanaugh, Corps of Engineers, Seattle (Wash.) district, for dredging in Lake Washington Ship Canal, opened Oct. 23, 1916.

[Appropriation: Waterway connecting Puget Sound with Lakes Union and Washington (entrance to Salmon Bay).]

Name and address of bidder.	1. Erickson Construction Co., Seattle, Wash.		2. Standard American Dredging Co., Seattle, Wash.	
	Unit.	Total.	Unit.	Total.
Dredging 575,000 cubic yards.....	\$0.191	¹ \$109,825.00	\$0.1915	\$110,112.50

¹ Accepted.

Abstract of proposals received by Lieut. Col. J. B. Cavanaugh, Corps of Engineer Seattle (Wash.) district, for dredging in city waterway, Tacoma Harbor, Wash., opened Jan. 25, 1917.

[Appropriation for harbor at Tacoma, Wash., and funds contributed for improvement of Tacoma Harbor, Wash. Special fund.]

	1. D. W. Rutherford, Municipal Dock, Tacoma, Wash.		2. J. M. Clapp, Burke Building, Seattle, Wash.		3. Tweeden & Mills, 422 Provident Building, Tacoma, Wash.	
	Unit.	Total.	Unit.	Total.	Unit.	Total.
Dredging 32,000 cubic yards.....	\$0.29½	\$9,440.00	\$0.60	\$19,200.00	\$0.40	\$12,800.00
Additional for dredging and depositing behind bulkhead 8,820 cubic yards.....	.19½	1,719.90	.10	882.00	.15	1,323.00
Total cost.....		11,159.90		20,082.00		14,123.00

HONOLULU (HAWAII) DISTRICT.

[Officer: Lieut. Col. R. R. Raymond, Corps of Engineers.]

FORTIFICATIONS.

Abstract of proposals for filling in area in rear of sea wall at Fort De Russy, Honolulu, Hawaii, received in response to advertisement dated Sept. 9, 1916, and opened at Honolulu, Hawaii, Sept. 25, 1916, by Lieut. Col. R. R. Raymond, Corps of Engineers.

[Appropriation: Fortifications in insular possessions, sea wall, Hawaiian Islands.]

Name and address of bidder.	Cubic yards of fill that can be placed for \$5,000.	Price per cubic yard.	Amount.
1. Lord-Young Engineering Co. (Ltd.), Honolulu, Hawaii.....	10,000	\$0.50	\$5,000

Award made to Lord-Young Engineering Co. (Ltd.), and contract entered into. Evidence of authority to sign waived.

Abstract of proposals for filling area in rear of sea wall at Fort De Russy, Honolulu, Hawaii, received in response to advertisement dated Apr. 24, 1917, and opened at Honolulu May 10, 1917, by Lieut. Col. R. R. Raymond, Corps of Engineers.

[Appropriation: Fortifications in insular possessions, sea wall, Hawaiian Islands.]

Name and address of bidder.	Cubic yards that can be placed for \$10,000.	Price per cubic yard.	Amount.
1. Lord-Young Engineering Co. (Ltd.), Honolulu, Hawaii.....	22,000	\$0.45	\$10,000

Award made to Lord-Young Engineering Co. (Ltd.) and contract entered into. Evidence of authority to sign waived.

RIVERS AND HARBORS.

Abstract of proposals for constructnig rubble mound breakwater at Kahului, Hawaii, received in response to advertisement opened Apr. 11, 1917, at Honolulu, by Lieut. Col. R. R. Raymond, Corps of Engineers.

[Appropriation: Harbor at Kahului, Hawaii.]

Name and address of bidder.	Price per ton in place, 2,000 pounds.	Approximate number of tons.	Total cost.
1. Kahului Railroad Co., Honolulu, Hawaii.....	\$2.10	88,000	\$184,800

Only one bid received. Acceptance recommended.

Abstract of proposals for dredging in Honolulu Harbor, Hawaii, received in response to advertisement opened Apr. 11, 1917, at Honolulu, Hawaii, by Lieut. Col. R. R. Raymond, Corps of Engineers.

[Appropriation: Harbor at Honolulu, Hawaii.]

Name and address of bidder.	Price per cubic yard, place measurement.	Approximate yardage.	Cost to 35 feet mean low water.	Maximum over-depth yardage.	Over-depth cost.	Total maximum cost.
1. Hawaiian Dredging Co. (Ltd.), Honolulu, Hawaii:						
Area A.....	\$0.29	45,000	\$13,050.00	10,800	\$3,132.00	\$16,182.00
Area B.....	1.49	12,000	17,880.00	3,500	5,215.00	23,095.00
Area C.....	1.99	5,000	9,950.00	200	398.00	10,348.00
			40,880.00		8,745.00	49,625.00

Only one bid received. Acceptance recommended.

SECRETARY'S OFFICE, ST. LOUIS, MO.

[Officer: Maj. Clarke S. Smith, Corps of Engineers.]

Abstract of proposals for levee work in East Side levee and sanitary district, Ill., received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened Oct. 30, 1916.

[Appropriation: Mississippi River.]

Bidder.	Stations 886 to 995, new, 40,000 cubic yards.			
	Hauling earth by train.		Hydraulic method.	
	Price per cubic yard.	Total cost.	Price per cubic yard.	Total cost.
1. Hillsboro Dredging Co., Tampa, Hillsboro County, Fla.....			{ \$0.37 $\frac{1}{2}$	\$14,900
2. List & Gifford Construction Co., St. Louis, Mo.....	\$0.44	\$17,600	{ 1.35 $\frac{1}{2}$	14,100
3. Thomas W. Kinser, East St. Louis, Ill.....			{ .40	² 16,000
			{ .48	³ 19,200

¹ Deduction of 2 cents per cubic yard if contract is modified to provide a levee to net grade without shrinkage, which was accepted.

² Without shrinkage.

³ With shrinkage.

Abstract of proposals for levee work in East Cape Girardeau and Clear Creek drainage district, Illinois, received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened Dec. 4, 1916.

[Appropriation: Mississippi River.]

Bidder.	Stations 63+67 to 144, enlargement, 71,000 cubic yards.		Stations 144 to 173, new, 29,000 cubic yards.	
	Price per cubic yard.	Total cost.	Price per cubic yard.	Total cost.
1. Roach & Stansell, Memphis, Tenn. ¹	\$0.1538	\$10,919.80	\$0.1538	\$4,460.20
2. Canal Construction Co., Chicago, Ill.....	.1585	11,253.50	.1585	4,596.50
3. L. T. Callahan, Fulton, Ky.....	.215	15,265.00	.215	6,235.00
4. Keating Bros., Auburn, Ill.....	.225	15,975.00	.225	6,525.00

¹ Accepted. All or none.

Abstract of proposals for levee work in Riverland levee district, Missouri, received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened Apr. 30, 1917.

[Appropriations: Mississippi River.]

Bidder.	Stations 0 to 80, new, 110,000 cubic yards.	
	Price per cubic yard.	Total cost.
1. Fred C. Morgan, Indianapolis, Ind.....	\$0.16	¹ \$17,600.00
2. S. R. H. Robinson & Son Contracting Co., St. Louis, Mo.....	.1695	18,645.00
3. Hillsboro Dredging Co., Tampa, Hillsboro County, Fla.....	.34	37,400.00

¹ Accepted.

Abstract of proposals for levee work in Sny Island levee drainage district, Illinois, received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened May 14, 1917.

[Appropriation: Mississippi River.]

Bidder.	Item No. 1. Stations 222 to 234, 241 to 242, 262 to 273, 277 to 370; riverside levee enlargement, 59,100 cubic yards, per cubic yard.	Item No. 2. Stations 370 to 740; levee enlargement of reconstruction, 200,000 cubic yards, per cubic yard.	Total cost.
1. S. R. H. Robinson & Son Contracting Co., St. Louis, Mo.....	\$0.61	\$0.61	\$158,051

Abstract of proposals for levee work in the Hunt drainage district, Illinois, received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened May 18, 1917.

[Appropriation: Mississippi River.]

Bidders.	Stations 164 to 234, enlargement, 107,000 cubic yards.	
	Price per cubic yard.	Total cost.
1. Hillsboro Dredging Co., Tampa, Fla.....	\$0.25	\$25,000.00
2. S. R. H. Robinson & Son Contracting Co., St. Louis, Mo.....	.34 ⁷ / ₁₆	34,900.00

All bids rejected

COAL.

Abstract of proposals for furnishing coal for operations under the Mississippi River Commission, received in response to advertisement of Maj. Clarke S. Smith, Corps of Engineers, and opened Feb. 28, 1917.

[Appropriation: "Mississippi River."]

BID NO. 1. WEST KENTUCKY COAL CO., STURGIS, KY.

7,000 tons screened lump coal.¹

Commercial name of coal.....	Baker.
Name of mine or mines.....	No. 7.
Location of mine or mines.....	Near Clay, Webster County, Ky.
Name or other designation of coal bed or beds.....	Seam No. 12.
Name of operator of mine or mines.....	West Kentucky Coal Co.
Moisture in delivered coal.....	3.5 per cent.
Percentage of ash, "dry coal".....	8 per cent.
Percentage of volatile matter, "dry coal".....	35 per cent.
Percentage of sulphur, "dry coal".....	1.5 per cent.
British thermal units per pound, "dry coal".....	13,500.
Price per ton.....	\$4.05. ²
Price adjusted:	
For ash.....	\$4.05.
For ash and moisture.....	\$4.197.
Price per 1,000,000 British thermal units (cents).....	15.544.
No.....	1.
Total cost.....	\$14,689.50.

12,500 tons mine-run coal.³

Commercial name of coal.....	Tradewater.
Name of mine or mines.....	Mines Nos. 1, 2, 8, 9.
Location of mine or mines.....	Sturgis, Union County, Ky.
Name or other designation of coal bed or beds.....	Seam No. 9.
Name of operator of mine or mines.....	West Kentucky Coal Co.
Moisture in delivered coal.....	4 per cent.
Percentage of ash, "dry coal".....	11 per cent.
Percentage of volatile matter, "dry coal".....	35 per cent.
Percentage of sulphur, "dry coal".....	3 per cent.
British thermal units per pound, "dry coal".....	12,750.
Price per ton.....	\$3.20. ²
Price adjusted:	
For ash.....	\$3.20.
For ash and moisture.....	\$3.333.
Price per 1,000,000 British thermal units (cents).....	13.071.
No.....	1.
Total cost.....	\$20,831.25.

¹ Will furnish 3,500 tons only.

² Accepted.

³ Will furnish 6,250 tons only.

8,000 tons pea and slack coal.¹

Commercial name of coal.....	Tradewater.
Name of mine or mines.....	Mines Nos. 1, 2, 8, 9.
Location of mine or mines.....	Sturgis, Union County, Ky.
Name or other designation of coal bed or beds.....	Seam No. 9.
Name of operator of mine or mines.....	West Kentucky Coal Co.
Moisture in delivered coal.....	6 per cent.
Percentage of ash, "dry coal".....	13 per cent.
Percentage of volatile matter, "dry coal".....	35 per cent.
Percentage of sulphur, "dry coal".....	3.5 per cent.
British thermal units per pound, "dry coal".....	12,250.
Price per ton.....	\$3.20. ²
Price adjusted:	
For ash.....	\$3.20.
For ash and moisture.....	\$3.404.
Price per 1,000,000 British thermal units (cents).....	13,894.
No.....	1.
Total cost.....	\$13,616.

¹ Will furnish 4,000 tons only.

² Accepted.

FIRST AND SECOND MISSISSIPPI RIVER DISTRICTS, MEMPHIS, TENN.

[Officer, Lieut. Col. G. P. Howell, Corps of Engineers.]

Abstract of proposals for constructing about 700,000 cubic yards of levee work in the upper St. Francis and White River levee districts received in response to advertisement dated Sept. 9, 1916, and opened Sept. 19, 1916, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.

UPPER ST. FRANCIS LEVEE DISTRICT.

[Appropriation for improving Mississippi River and funds to be contributed by the Mississippi Levee Board of Missouri.]

Name and address of bidders.	Stations 20/16-21/0, 55,000 cubic yards.		Stations 21/0-22/0, 69,000 cubic yards.	
	Price.	Cost.	Price.	Cost.
1. Walter L. Lee, Charleston, Mo.....	\$0.21	\$11,550.00	\$0.21	\$14,490.00
2. L. T. Callahan, Fulton, Ky.....	.217	11,935.00	.217	14,973.00
3. R. L. Leonard, Memphis, Tenn.....	1.21	11,550.00	1.21	14,490.00
6. Roach & Stansell, Memphis, Tenn.....	.24	13,200.00	.24	16,560.00

Name and address of bidders.	Stations 24/0-25/0, 76,000 cubic yards.		Stations 25/0-26/15, 100,000 cubic yards.		Total.
	Price.	Cost.	Price.	Cost.	
1. Walter L. Lee, Charleston, Mo.....	\$0.21	\$15,960.00	\$0.21	\$21,000.00	\$63,000.00
2. L. T. Callahan, Fulton, Ky.....	.217	16,492.00	.217	21,700.00	65,100.00
3. R. L. Leonard, Memphis, Tenn.....	1.21	15,960.00	1.21	21,000.00	63,000.00
6. Roach & Stansell, Memphis, Tenn.....	.24	18,240.00	.24	24,000.00	72,000.00

WHITE RIVER LEVEE DISTRICT.

Name and address of bidders.	Stations 30/28-31/18, 250,000 cubic yards.		Stations 36/0-37/0, 150,000 cubic yards.		Total.	Grand total.
	Price.	Cost.	Price.	Cost.		
1. Walter L. Lee, Charleston, Mo.....						\$63,000.00
2. L. T. Callahan, Fulton, Ky.....						65,100.00
3. R. L. Leonard, Memphis, Tenn.....	\$0.2485	\$62,125.00	\$0.2975	\$44,625.00	\$106,750.00	169,750.00
4. Clark, Cheshire & Co., Memphis, Tenn.....	.2440	61,000.00	.2880	43,200.00	104,200.00	104,200.00
5. J. A. Burt, Gunnison, Miss.....	.25	62,500.00			62,500.00	62,500.00
6. Roach & Stansell, Memphis, Tenn.....	.2438	60,950.00	.3295	49,425.00	110,375.00	182,375.00
7. Rodgers Bros., Memphis, Tenn.....	1.2130	53,250.00	1.2970	44,550.00	97,800.00	97,800.00
8. Hughes Construction Co., Vicksburg, Miss.....	.28	70,000.00			70,000.00	70,000.00

¹ Recommended for acceptance.

Abstract of proposals for constructing three steel sand barges received in response to advertisement of Dec. 1, 1916, and opened 10 a. m., Dec. 21, 1916, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.

[Appropriation, "Improving Mississippi River."]

No.	Name and address of bidders.	Amount per barge.	Total for 3 barges.	Time of completion.
1	American Bridge Co., ¹ Pittsburgh, Pa.	² \$17,600	\$52,800	8 months after date of notification of approval of contract.
2	Dubuque Boat & Boiler Works, Dubuque, Iowa.	.....	65,900	Dec. 1, 1917.
3	The Dravo Contracting Co., Pittsburgh, Pa.	19,000	57,000	June 30, 1917.
4	Chas. Hegewald Co., New Albany, Ind.	27,500	82,500	Within 12 months.
5	Rock Island Bridge & Iron Co., Rock Island, Ill.	23,700	71,100	1 boat June 30, 1917; balance Aug. 1, 1917.
6	Milwaukee Bridge Co., ³ Milwaukee, Wis.	29,975	89,925	1 in 6 months; 1 in 8 months; 1 in 10 months.

¹ On condition that article 15 of the specifications shall be modified so that the barges may be completed afloat at Ambridge, Pa., in 8 months after receipt of notification of approval of contract by the Chief of Engineers.

² Recommended for acceptance.

³ Proposal is based on the use of available open-hearth stock material not subject to specified chemical or test requirements, but subject only to surface inspection and such tensile and bending tests as may be required.

Abstract of proposals for furnishing 12,000 cubic yards of riprap stone loaded on Government barges, received in response to advertisement dated Feb. 12, 1917, and opened Feb. 28, 1917, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.

[Appropriation, "Improving Mississippi River."]

No.	Name and address of bidder.	Price bid per cubic yard.	Total amount of bid.	Location of quarry.
1	Arnold Stone Co., Neelys Landing, Mo...	¹ \$1	\$12,000	1 mile north of Neelys Landing, Mo.

¹ Recommended for acceptance.

Abstract of proposals for furnishing riprap stone received in response to advertisement dated Feb. 17, 1917, and opened Mar. 19, 1917, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.

[Appropriation for improving Mississippi River.]

No.	Name and address of bidders.	25,000 tons f. o. b. cars at quarry, per ton.	Total cost.
1	M. S. Park, Clarksdale, Ark.....	\$0.54	\$13,500.00
2	Ward & Brown, Little Rock, Ark. ¹.....	.49	12,250.00
3	E. R. Beane, Russell, Ark.....	.63	15,750.00
4	G. A. Covington, Little Rock, Ark.....	.59	14,750.00
5	FitzGerald & Gately, St. Louis, Mo.....	.59	14,750.00
6	United States Stone Co., Little Rock, Ark.....	.85	21,250.00

¹ Recommended for acceptance.

Abstract of proposals for furnishing 1 steel barge, No. 1719, received in response to advertisement and opened 11 a. m. June 15, 1917, by Lieut. Col. G. P. Howell, Corps of Engineers, Memphis, Tenn.

[Appropriation, "Improving Mississippi River."]

No.	Name and address of bidder.	Afloat at works at Am-bridge, Pa.
1	American Bridge Co., Pittsburgh, Pa.....	1 \$72,000

¹ Recommended for rejection.

Abstract of proposals for furnishing wire strand, steel cable, and manila rope received in response to advertisement dated June 12, 1917, and opened June 30, 1917, at Memphis, Tenn., by Lieut. Col. G. P. Howell, Corps of Engineers.

[Appropriation: Improving Mississippi River.]

No.	Name and address of bidders.	Lot No. 3, manila rope.		Time of delivery.
		Bid per pound.	Aggregate bid.	
1	Peoria Cordage Co., ¹ Peoria, Ill.....	½-inch, 29.8 cents; all other sizes, 29.3 cents.	\$26,330.30	Not stated.
2	Frank W. Winne & Sons (Inc.), Philadelphia, Pa.	All sizes, 32 cents.....	28,752.00	Do.
3	Rinek Cordage Co., New York.....	½-inch, 29.65 cents; all other sizes, 29.15 cents.	26,195.53	60 days or less.

¹ Recommended for acceptance.

Lot No. 1, wire strand, no bids received in response to advertisement.
Lot No. 2, steel cable, no bids received in response to advertisement.

Abstract of proposals for constructing about 2,655,000 cubic yards of levee work in the Upper and Lower St. Francis, Reelfoot, and White River levee districts, received in response to advertisement dated Aug. 15, 1916, and opened Sept. 5, 1916, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.

[Appropriation for "Improving Mississippi River," and funds contributed by Fulton County Board.]

Name and address.	Upper St. Francis levee district.														Reelfoot levee district.		
	Station 13/1 to 13/20, 25,000 cubic yards.		Station 20/16 to 21/0, 55,000 cubic yards.		Sta. 21/0 to 22/0, 69,000 cubic yards.		Station 22/0 to 25/0, 90,000 cubic yards.		Station 23/0 to 24/0, 110,000 cubic yards.		Station 24/0 to 25/0, 76,000 cubic yards.		Station 25/0 to 26/15, 100,000 cubic yards.		Total.	Station 2/37 to 4/36, 360,000 cubic yards.	
	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.		Price.	Cost.
	Cents.		Cents.		Cents.		Cents.		Cents.		Cents.		Cents.			Cents.	
R. T. Clark & Co., Natchez, Miss.																	
S. R. Hughes Construction Co., Vicksburg, Miss.																	
Geo. F. Ramsey, Memphis, Tenn.																	
Wm. E. Bondurant, Hickman, Ky.																	
William Kelly, Charleston, Mo.	28.85	\$7,212.50									24.95	\$18,962.00			\$26,174.50	16.65	\$59,940.00
M. Tansey, Hooston, La.																	
John G. Sessions, Chatham, Miss.																	
L. T. Callahan, Fulton, Ky.											24.75	18,810.00	24.75	\$24,750.00	43,560.00	17.54	63,144.00
Lee Hallaway, Charleston, Mo.	27.65	6,912.50	27.65	\$15,207.50	27.65	\$19,078.50	27.65	\$24,885.00	27.65	\$30,415.00	27.65	21,014.00	27.65	27,650.00	145,162.50	19.75	71,100.00
H. B. Blanks, Vicksburg, Miss.																	
R. L. Lenard, Memphis, Tenn.	26.95	6,737.50	26.95	14,822.50	26.95	18,595.50	26.95	24,255.00	26.95	29,645.00	26.95	20,482.00	26.95	26,950.00	141,487.50	21.40	77,040.00
Roach, Stansell, Lawrance Bros. & Co., Memphis, Tenn.	27.00	6,750.00	27.00	14,850.00	27.00	18,630.00	27.00	24,300.00	27.00	29,700.00					94,230.00	18.00	64,800.00
R. H. & G. A. McWilliams, Memphis, Tenn.																	
Rodgers Bros., Memphis, Tenn.																	
																25.00	90,000.00
																17.50	63,000.00

¹Recommended for acceptance. All other bids recommended for rejection.

Abstract of proposals for constructing about 2,655,000 cubic yards of levee work in the Upper and Lower St. Francis, Reelfoot, and White River levee districts, received in response to advertisement dated Aug. 15, 1916, and opened Sept. 5, 1916, by Maj. M. J. McDonough, Corps of Engineers, Memphis, Tenn.—Continued.

Name and address of bidders.	Lower St. Francis levee district.										White River levee district.					Grand total.	
	Station 48/4 to 49/49, 400,000 cubic yards.		Station 97/20 to 101/0, 200,000 cubic yards.		Station 142/0 to 143/20, 120,000 cubic yards.		Station 147/12 to 150/48, 350,000 cubic yards.		Station 157/19 to 160/0, 300,000 cubic yards.		Total.	Station 30/28 to 31/18, 250,000 cubic yards.		Station 36/0 to 37/0, 150,000 cubic yards.			Total.
	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.		Price.	Cost.	Price.	Cost.		
R. T. Clark & Co., Natchez, Miss.	Cents. 20.70	\$82,800.00			Cents. 20.70	\$24,840.00			Cents. 34.40	\$120,400.00			Cents. 26.80	\$80,400.00	\$308,440.00		\$308,440.00
S. R. Hughes Construction Co., Vicksburg, Miss.					23.00	27,600.00					27,600.00	30.00	\$75,000.00	38.00	\$57,000.00	\$132,000.00	159,600.00
Geo. F. Ramsey, Memphis, Tenn.	19.00	76,000.00			18.30	21,960.00	31.00	108,500.00			206,460.00						206,460.00
Wm. E. Bondurant, Hickman, Ky.																	59,940.00
William Kelly, Charleston, Mo.																	26,174.50
M. Tansey, Houston, La.					21.65	25,980.00	24.40	85,400.00	28.00	84,000.00	195,380.00						195,380.00
John G. Sessions, Chat-ham, Miss.												29.00	72,500.00			72,500.00	135,644.00
L. T. Callahan, Fulton, Ky.																	114,660.00
Lee & Hallaway, Charle- ston, Mo.																	145,162.50
H. B. Blanks, Vicks- burg, Miss.	21.40	85,600.00									85,600.00						162,640.00
R. L. Lenard, Memphis, Tenn.	26.00	104,000.00	26.00	\$52,000.00	26.00	31,200.00	26.00	91,000.00	26.00	78,000.00	356,200.00	31.00	77,500.00	31.00	46,500.00	124,000.00	686,487.50
Roach, Stansell, Law- rance Bros. & Co., Memphis, Tenn.	23.00	92,000.00	23.00	46,000.00	23.00	27,600.00	23.00	80,500.00	23.00	69,000.00	315,100.00	28.21	70,525.00	28.21	42,315.00	112,840.00	579,770.00
R. H. & G. A. McWil- liams, Memphis, Tenn.	25.00	100,000.00							27.45	82,350.00	182,350.00						272,350.00
Rodgers Bros., Memphis, Tenn.	18.50	74,000.00			18.00	21,600.00					95,600.00	27.50	68,750.00	34.20	51,300.00	120,050.00	278,650.00

THIRD MISSISSIPPI RIVER DISTRICT, VICKSBURG, MISS.

[Officer: Maj. J. R. Slattery, Corps of Engineers.]

Abstract of proposals for furnishing about 35,000 short tons of stone, received in response to advertisement and opened Sept. 7, 1916.

[Appropriation: Mississippi River, allotment for revetments.]

Place of delivery.	1. Zeb Ward, Altus, Ark. ¹	2. United States Stone Co., Little Rock, Ark. ²	3. A. L. Martin, Russellville, Ark. ³	4. Foster & Creighton Co., Nashville, Tenn. ⁴	5. Warrior Timber & Contracting Co., Birmingham, Ala. ⁵
ARKANSAS CITY, ARK.					
Unloaded from cars:					
On river bank.....	\$1.86	\$2.20	\$1.70		
On Government barges—					
5,000 tons from Hartman.....	2.17	2.40			
15,000 tons from Altus.....	2.20				
15,000 tons from White Oak.....	2.21				
Loading from bank to barge.....	.35	.20			
VICKSBURG, MISS.					
Unloaded from cars:					
On river bank.....				\$2.35	\$2.25
On Government barges.....				2.60	2.75
Loading from bank to barge.....				.25	

¹ Minimum, 35,000 tons.

⁴ Minimum, 5,000 tons; maximum, 15,000 tons.

² Minimum, 5,000 tons; maximum, 20,000 tons.

⁵ Minimum, 15,000 tons; maximum, 35,000 tons.

³ Minimum not stated; maximum, 35,000 tons.

NOTE.—All prices are per ton of 2,000 pounds.

Abstract of proposals for constructing about 1,005,000 cubic yards of new levee, received in response to advertisement issued Aug. 31, 1916, and opened Sept. 15, 1916.

[Appropriation: Mississippi River, allotment for "Levees."]

Name and address of bidders.	Hagaman Loop, Upper Tensas levee district in Louisiana.			
	Section 1. Station 1559+65—1585, 264,000 cubic yards.		Section 2. Station 1585—1610+05, 264,000 cubic yards.	
	Price.	Cost.	Price.	Cost.
	<i>Cents.</i>		<i>Cents.</i>	
1. Roach & Stansell, Memphis, Tenn.....	32.4	\$85,536	30.8	\$81,312
3. R. T. Clark & Co., Natches, Miss.....	34.9	92,136	34.9	92,136
6. R. L. Leonard, Memphis, Tenn.....	32.5	85,800	32.5	85,800

Name and address of bidders.	Cottonwood new levee, Lower Yazoo levee district, below Greenville, Miss.							
	Section 1. Station 8394+80—8417, 150,000 cubic yards.		Section 2. Station 8417—8436, 150,000 cubic yards.		Section 3. Station 8436—8450, 150,000 cubic yards.		Section 4. Station 8450—8473+47, 150,000 cubic yards.	
	Price.	Cost.	Price.	Cost.	Price.	Cost.	Price.	Cost.
	<i>Cents.</i>		<i>Cents.</i>		<i>Cents.</i>		<i>Cents.</i>	
2. Roach & Stansell, Memphis, Tenn.....	29.7	\$44,550					29.7	\$44,550
4. R. T. Clark & Co., Grace, Miss.....	26.4	39,600	28.9	\$43,350			36.9	55,350
5. W. T. & E. M. Lowrance & Co., Memphis, Tenn.....	31	46,500	31	46,500	34.9	\$52,350	34.9	52,350

¹ Bids accepted under authority dated June 2, 1913, and with personal sanction of president of the Mississippi River Commission.

NOTE.—All prices are in cents, per cubic yard.

Abstract of proposals for constructing about 680,000 cubic yards of new levee and enlargement, received in response to advertisement issued Sept. 18, 1916, and opened Oct. 2, 1916.

[Appropriation: "Mississippi River, allotment for levees."]

Name and address of bidder.	Upper Tensas levee district, Arkansas River, Ark.					
	Section 1. Stations 530+15-592, 240,000 cubic yards.		Section 2. Stations 592-640, 146,250 cubic yards.		Section 3. Stations 640-690, 146,250 cubic yards.	
	Price.	Cost.	Price.	Cost.	Price.	Cost.
1. R. L. Leonard and Burt, Bond & McMurray, Memphis, Tenn.....	Cents. 23	\$55,200.00	Cents. 24.9	\$36,416.25	Cents. 30	\$43,875.00
2. M. Wolchansky, Watson, Ark.....	23.75	57,000.00	28.375	41,498.44	44.8	65,520.00
3. W. J. & E. F. Massey, Yancopin, Ark.....	23.8	57,120.00	23.8	34,807.50	39	57,037.50
4. W. T. & E. M. Lowrance & Co., Memphis, Tenn.....	17	40,800.00	21	30,712.50	28	40,950.00
5. Roach & Stansell, Memphis, Tenn. ¹						

Name and address of bidder.	Upper Tensas levee district, Arkansas River, Ark.			
	Section 4. Stations 690-743, 147,500 cubic yards.		Entire work. Stations 530+15-743, 680,000 cubic yards.	
	Price.	Cost.	Price.	Cost.
1. R. L. Leonard and Burt, Bond & McMurray, Memphis, Tenn.....	Cents. 30	\$44,250.00	Cents. 24.9	\$169,320.00
2. M. Wolchansky, Watson, Ark.....	35.2	51,920.00	26.48	248,064.00
3. W. J. & E. F. Massey, Yancopin, Ark.....	34	50,150.00	33.4	227,120.00
4. W. T. & E. M. Lowrance & Co., Memphis, Tenn.....	29	42,775.00		
5. Roach & Stansell, Memphis, Tenn. ¹				

¹ Bid accepted under authority dated June 2, 1913 (E. D. 89869).

NOTE.—All prices are in cents per cubic yard.

Abstract of proposals for constructing about 35,000 cubic yards of new levee, received in response to advertisement issued Sept. 25, 1916, and opened Oct. 9, 1916. (Hagaman Loop, Upper Tensas levee district, below Lake Providence, La. Stations 1600+22 to 1608+32.)

[Appropriation: Mississippi River, allotment for "Levees."]

Name and address of bidder.	35,000 cubic yards.	
	Price.	Cost.
1. Roach & Stansell, Memphis, Tenn.....	Cents. 31	\$10,850.00
2. Donaven & Daley, Lake Providence, La.....	¹ 23.4	8,190.00
3. N. C. Williamson, Millikin, La.....	31.38	10,983.00

¹ Bid accepted under authority dated June 2, 1913.

NOTE.—All prices are in cents per cubic yard.

COAL.

Abstract of proposals for furnishing about 10,000 short tons of bituminous coal in contractors' barges, received in response to advertisement issued July 15, 1916, and opened at 12 o'clock, noon, July 31, 1916.

Appropriation: Maintenance and improvement of existing river and harbor works, for Mississippi River, third district.]

Places of delivery and estimated quantities.	West Kentucky Coal Co., Sturgis, Ky.	
	Price.	Cost.
Mouth of White River, Ark. (2,000 tons):		
Lump coal.....	\$3.00	\$6,000.00
Mine-run coal.....	2.75	5,500.00
Greenville, Miss. (6,000 tons):		
Lump coal.....	3.10	18,600.00
Mine-run coal.....	2.90	17,400.00
Vicksburg, Miss. (2,000 tons):		
Lump coal.....	3.10	6,200.00
Mine-run coal.....	3.00	6,000.00
Total cost, if all lump coal.....		30,800.00
Total cost, if all mine-run coal.....		28,900.00
Additional charge:		
For delivery in flats.....	.16	
For transfer to United States boats.....	.20	

- (a) Commercial name of coal, Tradewater.
- (b) Name of mine or mines, Nos. 1, 2, 8, 9.
- (c) Location of mine or mines, Sturgis, Union County, Ky.
- (d) Railroad on which located, Illinois Central.
- (e) Name or designation of coal beds, No. 9.
- (f) Name of operator of mines, West Kentucky Coal Co.
- (g) British thermal units per pound of "dry coal," 13,200.
- (h) Percentage of ash in "dry coal," 9.
- (i) Percentage of sulphur in "dry coal," 2.5.
- (j) Percentage of volatile matter in "dry coal," 35
- (k) Moisture in coal "as received," 3.
- (l) Additional description of coal.

FOURTH MISSISSIPPI RIVER DISTRICT, NEW ORLEANS, LA.

[Officer: Lieut. Col. G. McC. Derby, U. S. Army.]

Abstract of proposals for rock received in response to public notice by circular letter dated and advertisement first published June 12, 1916, and opened at New Orleans, La., July 12, 1916, by Maj. W. G. Caples, Corps of Engineers.

[Maintenance and improvement of existing river and harbor works.]

Name and address of bidder.	17,000 tons rock.		
	F. o. b. U. S. barges at New Orleans.	F. o. b. rail-road cars at quarry.	Transferring rock from cars to barges.
1. Lester F. Alexander, New Orleans, La.....	\$2.08	¹ \$0.63	\$0.25
	35,360.00	10,710.00	4,250.00
2. A. E. Massey, New Orleans, La.....	2.23		
	37,910.00		

¹ Delivery f. o. b. quarries in Alabama at (1) Dolcito, (2) Boyles, (3) Lagarde, (4) Rock Springs.

Abstract of proposals for 52,000 tons of rock received in response to public advertisement published Aug. 21, 1916, and opened at New Orleans, La., Sept. 20, 1916, by Maj. W. G. Caples, Corps of Engineers.

[Appropriation: Mississippi River.]

Name and address of bidder.	17,000 tons delivered at Vicksburg, Miss.					20,000 tons delivered on U. S. barges at Naples, La.	15,000 tons delivered on U. S. barges at New Orleans, La.
	On board U. S. barges.	On cars at quarries.	Loading on barges.	Freight rate less land grant.	Total quarry deliveries.		
1. Lester F. Alexander, New Orleans, La.	\$2.67	\$0.90	\$0.50	\$0.7559	\$2.1559	\$2.05	\$2.25
45,390.00	15,300.00	8,500.00	12,850.30	36,650.30	41,000.00		
2. Big Rock Stone & Construction Co., Little Rock, Ark. ¹	1.88	.....	.....	.....	.....	.....	.....
65,800.00	.....	.....	.....	.....	.....	.....	.....

Name and address of bidder.	17,000 tons delivered at Vidalia, La.				
	On board U. S. barges.	On cars at quarries.	Loading on barges.	Freight per ton.	Total quarry deliveries.
3. Zeb Ward, Altus, Ark.	\$1.93	\$0.62	\$0.17	\$1.10	\$1.90
32,810.00	10,710.00	2,890.00	18,700.00	32,300.00	

¹ 35,000 tons or any quantity delivered on board U. S. barges at Vidalia, La.

Abstract of proposals for constructing about 498,000 cubic yards of earthwork in the Lafourche levee district received in response to advertisement published Oct. 10, and opened at New Orleans, La., Nov. 3, 1916, by Maj. W. G. Caples, Corps of Engineers.

Name and address of bidders.	Lafourche levee district.											
	Willwood, first method, 952-956 R. miles B. C., embankment and filled excavations, 457,000 cubic yards.		Willwood, second method, 952-956 R. miles B. C., embankment and filled excavations, 455,000 cubic yards.		Upper Avondale, first method, 956 R. miles B. C., embankment and filled excavations, 14,500 cubic yards.		Upper Avondale, second method, 956 R. miles B. C., embankment and filled excavations, 24,000 cubic yards.		Lower Avondale, first method, 956 R. miles B. C., embankment and filled excavations, 26,000 cubic yards.		Lower Avondale, second method, 956 R. miles B. C., embankment and filled excavations, 41,000 cubic yards.	
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.
1. D. B. Gore Co. (Inc.), New Orleans, La.....	\$0.1249	\$57,079.30			\$0.1249	\$1,811.05			\$0.1249	\$3,247.40		
2. Lower Coast Construction Co., New Orleans, La...	.1197	54,702.90	\$0.1890	\$91,665.00	.24	3,480.00	\$0.4	\$9,600.00				
3. Grasser Contracting Co., New Orleans, La.....	.1234	56,393.80	.23	111,550.00								
4. O. O. Ogden, Baton Rouge, La.....	1.1023	46,751.10	.21	101,850.00								
5. Hercules Co. (Ltd.), New Orleans, La.....	.127	58,039.00	.17	82,450.00								
6. F. O. Hamilton, St. Francisville, La.....					.2225	3,226.25	.29	6,960.00	.2189	5,691.40	\$0.28	\$11,685.00
7. R. H. & G. A. McWilliams, Memphis, Tenn.....	.139	63,523.00			1.39	2,015.50			.139	3,614.00		

¹ Recommended for acceptance.

Abstract of proposals for levee work received in response to advertisement published Sept. 9, 1916, and opened at New Orleans, La., Sept. 29, 1916, by
Maj. W. G. Caples, Corps of Engineers.

[Appropriation: Mississippi River.]

Name and address of bidders.	Lower Tensas district.												
	Ione 620 R. miles B. C., embankment and filled excavations, 125,000 cubic yards.		Woodburn, first method, 620.3 R. miles B. C., embankment and filled excavations, 130,000 cubic yards.		Woodburn, second method, 620.3 R. miles B. C., embankment and filled excavations, 112,500 yards.		Perkins, lot 1, 620.5 R. miles B. C., embankment and filled excavations, 46,000 cubic yards.		Perkins, lot 2, 620.5 R. miles B. C., embankment and filled excavations, 48,000 cubic yards.		Perkins, lot 3, 620.5 R. miles B. C., embankment and filled excavations, 48,000 cubic yards.		
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	
3. H. H. Shackelford & Co., Bayou Sara, La.....	\$0.184	\$23,000.00						\$0.1987	\$9,140.20	\$0.1987	\$9,537.60	\$0.1987	\$9,537.60
4. Jackson Construction Co., Natchez, Miss.....	.1998	24,975.00	\$0.26	\$33,800.00	\$0.32	\$36,000.00	.27	12,420.00	.26	12,480.00	.26	12,480.00	
6. H. B. Blanks Levee Co., Vicksburg, Miss.....	.224	28,000.00	.224	29,120.00									
9. S. R. Hughes & Co., Vicksburg, Miss.....	.199	24,875.00	.24	31,200.00	.34	38,250.00							
11. Gibson & Hamilton, St. Francisville, La.....	.225	28,125.00	.24	31,200.00	.29	32,625.00							
13. H. T. Van Fossen, Lake Providence, La.....	.195	24,375.00	.22½	29,466.66			.22	10,120.00	.2	9,600.00	.2	9,600.00	
14. Francis T. Constant, Alexandria, La.....	.225	28,125.00	.255	33,150.00			.344	15,824.00	.344	16,512.00	.344	16,512.00	
15. W. C. Mullen, Vicksburg, Miss.....	.187	23,375.00	.22	28,600.00	.26	29,250.00							
17. Thornton Cableway Levee Construction Co., McDonoughville, La.....			.198	25,740.00	.23	25,875.00							
18. Donovan, Daley, Linnan Bros., M. Tansey, and W. R. Cabett, Shreveport, La.....	.2	25,000.00	.23	29,900.00	.33	37,125.00							
24. S. K. Jones, Tallulah, La.....	.2143	26,787.50											
25. N. C. Williamson, Millikin, La.....	.215	26,875.00	.2435	31,655.00	.33	37,125.00							
26. Donovan & Daley, Lake Providence, La.....							.31	14,260.00	.31	14,880.00			
28. Roach & Stansell, Memphis, Tenn.....	.21	26,250.00	.21	27,300.00	.33	37,125.00	.21	9,660.00	.21	10,080.00	.21	10,080.00	
30. R. T. Clark & Co., Natchez, Miss.....	.18	22,500.00	.239	31,070.00			.269	12,374.00	.269	12,912.00	.269	12,912.00	
31. Junkin Bros., Natchez, Miss.....	.1998	24,975.00	.2074	26,962.00	.2275	25,593.75							

Name and address of bidders.	Lower Tensas district.											
	Perkins, lot 4, 621 R. miles B. C., embankment and filled excavations, 50,500 cubic yards.		Perkins, lot 5, 621 R. miles B. C., embankment and filled excavations, 44,500 cubic yards.		Perkins, lot 6, 621 R. miles B. C., embankment and filled excavations, 45,000 cubic yards.		Somerset, lot 1, first method, 621.5 R. miles B. C., embankment and filled excavations, 102,500 cubic yards.		Somerset, lot 1, second method, 621.5 R. miles B. C., embankment and filled excavations, 76,000 cubic yards.		Somerset, lot 2, first method, 621.8 R. miles B. C., embankment and filled excavations, 102,500 cubic yards.	
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.
3. H. H. Shackelford & Co., Bayou Sara, La.....						\$0.208	\$21,320.00	\$0.285	\$21,660.00	\$0.189	\$19,372.50	
4. Jackson Construction Co., Natchez, Miss.....	.27	\$13,635.00	.28	\$12,460.00	.27	\$12,150.00	.28	28,700.00	.36	27,360.00	.36	26,650.00
6. H. B. Blanks Levee Co., Vicksburg, Miss.....						.224	22,960.00			.224	22,960.00	
9. S. R. Hughes & Co., Vicksburg, Miss.....						.23	23,575.00	.33	25,080.00	.215	22,037.50	
11. Gibson & Hamilton, St. Francisville, La.....										.225	23,062.50	
13. H. T. Van Fossen, Lake Providence, La.....	.235	11,867.50	.25	11,125.00	.24	10,800.00	.2	20,500.00	.3	22,800.00	.183	19,133.33
14. Francis T. Constant, Alexandria, La.....	.344	17,372.00	.344	15,308.00	.344	15,480.00	.25	25,625.00	.24	18,240.00		
18. Donovan, Daley, Linnan Bros., M. Tansey & W. R. Cabett, Shreveport, La.....							.225	23,062.50	.325	24,624.00	.2	20,500.00
24. S. K. Jones, Tallulah, La.....						.2143	21,965.75	.2743	20,840.80	.2143	21,965.75	
25. N. C. Williamson, Millikin, La.....						.2435	24,958.75	.33	25,080.00	.2435	24,958.75	
28. Roach & Stansell, Memphis, Tenn.....	.21	10,605.00	.21	9,345.00	.21	9,450.00	.21	21,525.00	.33	25,080.00	.21	21,525.00
30. R. T. Clark & Co., Natchez, Miss.....	.259	13,079.50	.259	11,525.50	.259	11,655.00	.259	26,547.50			.239	24,497.50
31. Junkin Bros., Natchez, Miss.....						.2495	25,573.75	.27	20,520.00	.2594	26,588.50	

Name and address of bidders.	Lower Tensas district.											
	Hewitt, second method, 622.7 R. miles B. C., embankment and filled excavations, 90,000 cubic yards.		Aurora, first method, 623 R. miles B. C., embankment and filled excavations, 103,500 cubic yards.		Aurora, second method, 623 R. miles B. C., embankment and filled excavations, 78,000 cubic yards.		White Oak Lake, 631-632 R. miles B. C., embankment and filled excavations, 51,000 cubic yards.		Kempe, 656 R. miles B. C., embankment and filled excavations, 150,000 cubic yards.		L'Argent Sublevee, 668 R. miles B. C., embankment and filled excavations, 38,000 cubic yards.	
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.
4. Jackson Construction Co., Natchez, Miss.....	\$0.37	\$33,300.00	\$0.29	\$30,015.00	\$0.35	\$27,300.00	\$0.429	\$21,879.00	.....	.....	.....	.....
6. H. B. Blanks Levee Co., Vicksburg, Miss.....	.....	.....	.224	23,184.00	.....	.....	.....	.....	.....	.....	.....	.....
9. S. R. Hughes & Co., Vicksburg, Miss.....	.....	.....	.24	24,840.00	.36	28,080.00	.....	.....	.....	.....	.....	.....
10. Lambert Bros., St. Rose, La.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13. H. T. Van Fossen, Lake Providence, La.....	.....	.....	.24	24,840.00	.34	26,520.00	.....	.....	\$0.349	\$52,350.00	1.16	6,080.00
14. Francis T. Constant, Alexandria, La.....	.....	.....	.259	26,806.50	.....	.....	.....	.....	1.315	47,250.00	.184	6,992.00
18. Donovan, Daley, Linnan Bros., M. Tansey & W. R. Cabett, Shreveport, La.....	.37	33,300.00	.23	23,805.00	.33	25,740.00	.....	.....	.....	.....	.....	.....
25. N. C. Williamson, Millikin, La.....	.32	28,800.00	.2435	25,202.25	.325	25,350.00	.....	.....	.3235	48,525.00	.....	.....
28. Roach & Stansell, Memphis, Tenn.....	.36	32,400.00	.2424	25,088.40	.36	28,080.00	.....	.....	.38	57,000.00	.....	.....
30. R. T. Clark & Co., Natchez, Miss.....	.....	.....	.249	35,771.50	.....	.....	.549	27,999.00	.379	56,850.00	.....	.....
31. Junkin Bros., Natchez, Miss.....	.....	.....	.264	27,324.00	.285	22,230.00	.....	.....	.....	.....	.....	.....

¹ Recommended for acceptance.

Abstract of proposals for levee work received in response to advertisement published Sept. 9, 1916, and opened at New Orleans, La., Sept. 29, 1916, by Maj. W. G. Caples, Corps of Engineers—Continued.

Name and address of bidders.	Atchafalaya district.										Ponchartrain district.			
	Red River Land- ing, first meth- od, 765 R. miles B. C., embank- ment and filled excavations, 264,000 cubic yards.		Red River Land- ing, second method, 765 R. miles B. C., embankment and filled ex- cavations, 257- 000 cubic yards.		Smithland, 766.5 R. miles B. C., embankment and filled ex- cavations, 256- 000 cubic yards.		Henrietta, first method, 767- 768 R. miles B. C., embank- ment and filled excavations, 285,000 cubic yards.		Henrietta, sec- ond method, 767-768 R. miles B. C., embankment and filled ex- cavations, 285- 100 cubic yards.		Towles, first method, 850- 853 L. miles B. C., embank- ment and filled excavations, 392,000 cubic yards.		Towles, second method, 850-853 L. miles B. C., embankment and filled ex- cavations, 367- 000 cubic yards.	
	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.	Per cubic yard.	Amount.
1. Hampton Reynolds, New Orleans, La.....														
2. Don B. Hearin & Son, Baton Rouge, La.....	\$0.185	\$48,840.00	\$0.25	\$64,250.00	\$0.185	\$47,360.00	\$0.185	\$52,725.00	\$0.25	\$71,275.00	\$0.22	\$86,240.00	\$0.5	\$183,500.00
5. D. B. Gore Co. (Inc.), New Orleans, La.....											.1373	53,821.60	.1873	68,739.10
7. Lower Coast Construction Co. (Ltd.), New Orleans, La.....											.1873	73,421.60	.205	75,235.00
8. Janse Bros., Boomer, Crane & Howe, Detroit, Mich.....	.2	52,800.00	.22	56,540.00	.2	51,200.00	.2	57,000.00	.22	62,722.00	.16	62,720.00	.19	69,730.00
11. Gibson & Hamilton, St. Francisville, La.....	.35	92,400.00	.37	95,090.00	.17	43,520.00	.185	52,725.00	.195	55,594.50	.2	78,400.00	.22	80,740.00
12. The Hercules Co. (Ltd.), New Orleans, La.....					.225	57,600.00					.2247	88,082.40	.28	102,760.00
16. Frey Bros.-Smith Co., New Orleans, La.....	.19	50,160.00	.25	64,250.00	.19	48,640.00	.19	54,150.00	.25	71,275.00	.16	62,720.00	.22	80,740.00
19. Grasser Contracting Co., New Orleans, La.....							.1545	44,032.50	.1545	44,047.95				
21. W. E. Geren, Columbia, La.....	1.1347	35,560.80	.1447	37,187.90	1.1347	34,483.20	1.1347	38,389.50	.1447	41,253.97	.154	60,368.00	.164	60,188.00
22. W. E. Callahan Construction Co., Omaha, Nebr.....	.25	66,000.00	.29	74,530.00	.22	56,320.00	.2	57,000.00	.3	85,530.00				
23. R. H. & G. A. McWilliams, Chicago, Ill.....							.174	49,590.00	.3	85,530.00	.1924	75,420.80	.32	117,440.00
27. G. W. Garig Contracting Co., Baton Rouge, La.....					.167	42,752.00	.1325	37,762.50			.17	66,640.00		
28. Roach & Stansell, Memphis, Tenn.....	.187	73,304.00									.187	73,304.00	.2	73,400.00
29. Dameron-White Co. (Ltd.), Baton Rouge, La.....	.224	59,136.00	.34	87,380.00	.224	57,344.00	.224	63,840.00	.34	96,934.00	.18	70,560.00	.3	110,100.00
	.1799	47,493.60	.24	61,680.00	.1799	46,054.40	.1799	51,271.50	.24	63,424.00	.1423	55,781.60	.2023	74,244.10

¹ Recommended for acceptance.

