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PERSONAL.

Mr. A. H. Robinson has been elected President of the Water Board of Lawrence, Mass.

Mr. H. R. King, consulting electrical engineer, of De trolt, Mich., has returned home after an absence of six months in Venezuela.

Mr. Kennerly Rohey, civil engineer with the Standard Oil Co., was married, Jan. 1, to Miss Florence Lillian Ashley, of Sullivan, Pa.

Mr. David Lee has been elected President and Mr. P. C. Sneed, Secretary and Treasurer of the Newark, Somerset & Statesville R. R. Co., of Newark, O.

Mr. Christopher Harrison has been elected City Engi-eer of Everett, Mass., and Mr. Geo, E. Tolman has been elected a member of the Board of Public Works.

Mr. William Bingham Nichols, of the firm of Wright & Nichols, civil engineers, of Los Angeles, Cal., was married, Jan. 18, to Miss Mary S. C. Perry, of that city.

Herr Wesselmann, of the Wesselmann Machinery Co., Berlin, Germany, is visiting the United States for the purpose of making purchases of machinery, machine teols and other aupplies for the company. He is now at the Belvidere House, New York.

Capt. Til Huston, Second Regiment, U. S. Volunteer Engineers, at present stationed in Havana, Cuba, has been appointed Superintendent of the Water-Works of that city. He was formerly connected with the Water-Works Department of Cincinnati, O.

Mr. Charles L. Gist, Superintendent of Telegraph and Chief Dispatcher of the Pittaburg & Lake Erie R. R., with headquarters at Pittsburg, Pa., has been appointed Superintendent of Transportation. Mr. G. B. Obey has been appointed to Mr. Gist's former position.

Mr. George S. Gatchell, Manager of the Associated Ele Mr. George S. Gatchell, Manager of the Associated Elevators of Buffalo, N. Y., has resigned his position as Expert Inspector to the New York State Railroad Commission, and Mr. Jefferson B. Schultz, formerly Roadmaster of the Rome, Watertown & Ogdensburg R. R., has been appointed to aucceed him.

Mr. Clarence W. Marsh, civil engineer, who went to Porto Rico with the First Regiment, U. S. Volunteer Eu-gineers, has returned to the United States and opened an office as a consulting civil engineer, at 489 Fifth Ave.. New York city. Mr. Marsh is a graduate of Cornell University in the class of 1894.

Mr. Godfrey W. Rhodes, for many years Superintendent of Motive Power of the Chicago, Burlington & Quincy R. R., with headquarters at Aurora, Ill., has been appointed General Superintendent of the Burlington & Mis souri River R. R. system, comprising all the Burlington lines west of the Mississippi River.

Mr. Ralph Modjeakl, M. Am. Soc. C. E., of Chicago, has been appointed Consulting Bridge Engineer for the Pitts-burg, Cincinnati, Chicago, & St. Louis Ry., the Chicago Terminal Transfer R. R. and the Chicago Junction Ry. for the construction of their new eight-track rolling lift bridge over the Chicago Main Draiuage Channel.

Mr. F. A. Delano, Superintendent of Freight Terminals of the Chicago, Burlington & Quincy R. R., with headquar-ters at Chicago, III., has been appointed Superintendent of Motive Power, with headquarters in Aurora, ill., to succeed Mr. Godfrey W. Rhodes, the appointment of whom to service elsewhere is noted in this column.

Mr. W. T. Backus, Superintendent of Transportation of the Detroit, Toledo & Milwaukee R. R., with headquarters in Toledo, O., has been appointed Division Superintendent of the Ohio Division of the Cincinnati Northern R. R., which has secured control of the former road. Mr. J. P. Waldo has been appointed Trainmaster of the Michigan Division, with headquarters at Tecumseh, Mich.

Prof. J. B. Johnson, M. Am. Soc. C. E., whose appointment as Dean of the College of Mechanics and Engineering of the University of Wisconsin was noted in our last issue, delivered a farewell lecture, Jan. 23, in Memorial Hsil, St. Louis, Mo., under the auspices of the Washingtou University Association, on the subject, "The Fruits

Mr. R. T. McKeever, General Superintendent of the Fonda, Johnstown & Gloversville R. R., with headquar-ters in Gloversville, N. Y., has heen appointed Superin-tendent, at Ogdenshurg, N. Y., of the Rutland R. R.,

which has secured control of the Ogdensburgh & Lake Champlain R. R. Mr. Edward J. Chamberlin, General Manager of the Canada Atlantic Ry., with headquarters in Ottaws, Ont., has been appointed General Manager of the reorganized roads.

The valuable library of 4,000 volumes on engineering subjects, collected by Col. Loammi Baldwin, civil engineer, who died in 1808, and by his sons, Col. Loammi Baldwin, Jr., and Mr. George R. Baldwin, was partly destroyed by fire Jan. 28. The library, which early in the century was famous and contained rare and valuable works collected in this and in foreign countries, was contained in the old Loanimi Baldwin house in North Woburn, Mass., which was saved from the fire that destroyed or damaged most of the books. The mansion was built by the first Col. Baldwin, who was a colonel in Washington's army, in 1761, and is now owned by Mrs. W. A. Griffith, of Quehec, a daughter of Mr. George R. Baldwin.

OBITUARY.

Mr. Robert O. Botterill, civil engineer, of Newport, R., died at Nasirubod Rajpootana, India, recently, of pneumonia.

Mr. John Keller, railway contractor and projector, died at his home in Lancaster, Pa., Jan. 28, aged 71. He was President of the Topeka & Fort Scott R. R.

Mr. Nathaniel B. Gordon, Superintendent of the J. B. & J. M. Cornell Iron Works, of New York city, dled at his home in Westfield, N. J., Jan. 25, aged 61.

Mr. Adin H. Smith, first President of the Athol Water Co., Athol, Mass., died Jan. 21. He was born in that place, June 19, 1815, and was engaged in the manufacture of brick until some years ago.

Mr. Martin Lipps, contractor, of New York city, died Jan. 26, aged 38. He built the pipe lines at Syracuse and New Rochelle, N. Y., and Waterbury, Conn., and had also done work upon the Croton water supply of New York city.

Mr. Robert Rintoul Symon, President of the Western R R. of Mexico, Vice-President of the Mexican Central Ry Co., Ltd., and Chalrman of the Michoachon & Pacific Ry. died at his home in London, England, Jan. 28, aged 60 Mr. Symon, in 1879, obtained from the Mexican Government valuable railway concessions, and has been con-nected with the rallways of that republic ever since, making yearly trips from London to Mexico.

Mr. Charles E. C. Breck, civil engineer, of Boston, Mass., died at his home in Milton, Mass., Jan. 29, aged 64. He was a son of Mr. Charles Breck, also a civ.l engineer, who died recently at the age of 95. The son was associated with Mr. Herbert T. Whitman, early in his career, under the firm name of Whitman & Breck, civil and landscape engineers. The firm made the surveys for the Boston, Lynn & Revere Beach R. R. Mr. Breck was a member of the Boston Society of Civil Euglneers and was a veteran of the Civil War.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

COMING TECHNICAL MEETINGS.

CHICAGO ELECTRICAL ASSOCIATION.

Feb. 3. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, In.

TECHNICAL SOCIETY OF THE PACIFIC COAST.

Feb. 3. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.

Feb. 3. Illustrated lecture, Prof. M. I. Pupin. Secy., Henry I. Weed, Brooklyn Iustitute of Arts and Sciences, Brooklyu, N. Y.

ENGINEERS CLUB OF COLUMBUS.

Feb. 4. Secy., H. M. Gates, 12½ North High St., Columbus, O.

Feb. 4. Secy., H. M. Gatea, 12½ North High St., Columbus, O.
ENGINEERS' CLUB OF PHILADELPHIA.
Feb. 4. "The Problem of Water Purification for the City of Philadelphia," P. J. A. Maignen. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
ENGINEERING SOCIETY OF WESTERN NEW YORK.
Feb. 6. Secy., H. J. March, Library Bidg., Buffalo, N.Y.
CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Feb. 6. Secy., C. L. Annan, City Engineer's Office, St. Paul, Minn.
NATIONAL BRICK MAKERS' ASSOCIATION.
Feb. 7-10. Annual meeting, Columbus, Ohio. Secy., Theo. A. Randall, Indianapolls, Ind.
AMERICAN INSTITUTE OF ARCHITECTS (New York Chapter).
Feb. 8. Secy. Chas. I. Page 10 Wast 2024 St. No. 10.

Chapter). Feb. 8. Secy., Chas. I. Berg, 10 West 23d St., New York

Peb. 8. Secy., Chas. I. Berg, 10 West 23d St., New York city.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Feb. 8. "Filtration, Slow Sand and Mechanical." Secy., J. C. Whitney, Newton, Mass.
FRANKLIN INSTITUTE.
Feb. 8. "Notes on the Reduction of Iron Ores." John M. Hartman; "Ice Caves," Edwin S. Baich. Secy., Wm. H. Wahl, 15 South 7th St., Philadelphia, Pa. BROOKLYN ENGINEERS CLUB.
Feb. 9. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
CANADIAN SOCIETY OF CIVIL ENGINEERS.
Feb. 9. Secy., H. C. McLeod, 112 Mansfield St., Montreal, Que.
ENGINEERING ASSOCIATION OF THE SOUTH.
Feb. 9. Secy., C. B. Wilson, 100 Broad St., Nashville, Tenn.

Feb. 9. Secy., C. B. Wilson, 100 Broad St., Nashville, Tenn.
WISCONSIN STATE CHEMICAL ASSOCIATION.
Feb. 10. Secy., I. Ladoff, 154 Knspp St., Milwaukee, Wis.
ST. LOUIS RAILWAY CLUB.
Feh. 10. Secy., H. H. Roberts, 511 Commercial Bidg., St. Louis, Mo.
MONTANA SOCIETY OF ENGINEERS.
Feb. 11. Helena, Mont. Secy., A. S. Hovey, National Bank Bidg., Helena, Mont.
THE LOUISIANA ENGINEERING SOCIETY.
Feb. 13. Secy., J. F. Coleman, 712 Union St., New Orleans, La.
ENGINEERS' CLUB OF KANSAS CITY.
Feb. 13. Secy., F. W. Tuttle, Baird Bidg., Kansas City, Mo.

CIVIL ENGINEERS' CLUB OF CLEVELAND. Feb. 14. Secy., Wm. H. Scarles, Case Library Building.

Cleveland.

DENVER SOCIETY OF CIVIL ENGINEERS.

Feb. 14. Secy., W. B. Lawson, 36 Jacobson Bidg., Denver Col.

ver, Colo.
NORTHWEST RAILWAY CLUB.
Feb. 14. Secy., T. A. Foque, Soo Line, Minneapolis,

Feb. 14. Secy., T. A. Foque, C. Minn.
NEW ENGLAND RAILWAY CLUB.
Feb. 14. Secy., Edw. L. Janes, P.O. Box 1158, Boston,

Feb. 14. Secy., Edw. L. Janes, F.O. Box Free, Boxes, Mass.

NATIONAL SANITARY ASSOCIATION.
Feb. 15. Annual meeting, New York city. Secy., Thos. E. Veal, Atlanta, Ga.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Feb. 15. Secy., S. E. Tinkham, City Hall, Boston, Mass.
WESTERN FOUNDRYMEN'S ASSOCIATION.
Feb. 15. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.
WESTERN SOCIETY OF ENGINEERS.
Feb. 15. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
ENGINEERS' CLUB OF ST. LOUIS.
Feb. 15. Secy., E. R. Fish, 2401 N. Spring Ave., St. Louis, Mo.

Feb. 15. Secy., L. Louis, Mo. AMERICAN SOCIETY OF CIVIL ENGINEERS. Feb. 15. Secy., C. W. Hunt, 220 West 57th St., New

Feb. 15. Secy., C. W. Manne,
York city.
NEW YORK RAILROAD CLUB.
Feb. 16. Secy., W. W. Wheatley, 168 Montague St.,
Brooklyn, N. Y.
ENGINEERS' CLUB OF CINCINNATI.
Feb. 16. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, SOUTHERN AND SOUTHWESTERN RAILWAY CLUB. Feb. 16. Secy., F. A. Charpiot, P. O. Box 13, Savannah,

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Feb. 16. Secy., F. A. Charpiot, P. O. Box 13, Savannah,
Gn.
THE DETROIT ENGINEERING SOCIETY,
Feb. 17. Secy., Henry Goldwark, Wayne Co. Savings
Bank Bldg., Detroit, Mich.
ROCHESTER ENGINEERING SOCIETY.
Feb. 17. Secy., John F. Skinner, Reynolds Library
Bldg., Rochester, N. Y.
ENGINEERS' AND ARCHITECTS' ASSOCIATION OF
SOUTHERN CALIFORNIA.
Feb. 18. Secy., Frank Van Vieck, Currier Block, Los
Angeles, Cal.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Feb. 20. "The Nicaragua Canal." Secy., Marshall Morris, 16 Norion Bldg., Louisville, Ry.
TECHNICAL CLUB OF OMAIIA.
Feb. 20. Secy., J. Harry Lawrie, Omnha, Neb.
ENGINEERS' CLUB OF MINNEAPOLIS.
Feb. 20. Secy., H. E. Smith, 1620 S. E. 14th St., Minneapolis, Minn.
WESTERN RAILWAY CLUB.
Feb. 21. Secy., F. M. Whyte, 225 Dearborn St., Chicago,
Ill.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA

Feb. 21. Secy., F. M. WHYG, 225 Beaton St., Chicago, Ill.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA Feb. 21. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.
AMERICAN INSTITUTE OF MINING ENGINEERS. Feb. 21-25. Annual meeting, New York city. Sccy. R. W. Raymond, P. O. box 223, New York city.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS Feb. 22. Secy., Ralph W. Pope, 26 Cortlandt St., New York city.
ASSOCIATION OF ONTARIO LAND SURVEYORS. Feb. 23. Annual meeting, Toronto, Canada. Secy., A. J. Van Nostrand, Torento, Canada.

THE INDIANA ENGINEERING SOCIETY .- The 19th annual meeting of this society was held at Indianapolis, Jan. 24-26. A full account of the meeting is given elsewhere in this issue.

THE ILLINOIS SOCIETY OF SURVEYORS AND EN-THE ILLINOIS SOCIETY OF SURVEYORS AND EN-GINEERS.—This society held its 14th annual meeting at Champaign, Ill., Jan. 25-27. A full account of the meet-ing is given elsewhere in this issue.

AMERICAN SOCIETY OF HEATING AND VENTILAT-ING ENGINEERS.—The regular winter meeting of this society was held in New York city, Jan. 24-26, and elsewhere in this issue will be found a full account of its proceedinga.

ENGINEERS' CLUB OF COLUMBUS .- A meeting of this club was held on Jan. 21. Owing to the unavoidable absence of Prof. A. M. Bleile, who was to have presented the paper of the evening, only minor business was transacted.

CIVIL ENGINEERS' CLUB OF CLEVELAND.—The semi-monthly meeting of this club was held Jan. 24. The subject of the evening's discussion was a paper on "The United States Navy; its Material and the Reorganization of Ita Personnel.'

SCRANTON ENGINEERS' CLUB .- The annual meeting of this club was held Jan. 24, at its rooms in the Board of Trade building. Reports from the various officers and committees were received. Officers for the ensuing year were elected as follows: Prea., W. M. Marple; Vice-Pres., C. C. Rose; Rec. Secy., H. W. Rowley; Cor. Secy., Morgan Davis; Treas., A. C. Lamont; Librarian, A. E. Lister; Directors, James Archibald, W. A. May, Charles Farrer.

The husiness meeting was followed by the annual hanquet, which proved a very enjoyable affair.

NEW ENGLAND WATER-WORKS ASSOCIATION. A regular meeting of this association will be held at Tremont Temple, Boston, Mass., on Feb. 8. The fol-lowing papers will be presented: "Relative Applicability lowing papers will be presented: "Relative Applicability of Sand and Mechanical Filters," George W. Fuller, C. E., Chief Chemist and Bacteriologist, Water-Works, Cincinnati, Ohio; Discussion by Allen Hazen, C. E., New York city; "Filtration of Water," H. W. Clark, C. E., Chemist of Massachusetts State Board of Health, Law-

rence, Mass.

The business of the association has grown to such proportions that to avoid embarrassment in the transaction of his regular work at Newton, the Secretary has appointed a clerk who will be located at the headquarters of the association in Tremont Temple, Boston, These headquarters

will hereafter be the official quarters of the Secretary, and he respectfully requests that all correspondence and com-munications be sent there. J. C. Whitney, Secy.

MICHIGAN ENGINEERING SOCIETY .- The 20th annual meeting of this society was beld at Lansing, Mich., on Jan. 24-26. A paper was presented by Mr. J. J. Hubbell on "The Second Growth of Timber in Northern Michaelland". igan," in which the recommendation was made that the state should not sell the lands forfeited for non-payment of taxes, but should keep and seed them; also that extreme precautions should be taken to guard against forest

Other papers were presented at the evening session, as Toledo; "Paving Streets in Small Towns," H. E. Riggs, Toledo; "Survey of Detroit River," F. Hodgman, Climax; "Water Waste in Small Towns," A. L. Holmes, Grand Rapids; "Construction of a Stone Highway Bridge," Owen Morris, Hyde Park, N. Y.; "Early Surveys of Indian Owen Morris, Hyde Park, N. Y.; "Early Surveys of Indian Territory," O. H. Todd, Fairfax; "Coai and Coai Mining in Michigan," Chas. Hoimes, Sagiuaw; "Something on Irrigation," A. L. Reed, California; "Organization and Early History of the Society," Prof. R. C. Carpenter; "History of the Society," F. Hodgman; "Reminiscences," "William Appleton; "Landmarks," Prof. J. B. Davis; "Value of Engineering Societies," E. W. Maenscher. The following officers were elected for the ensuing year: President, J. J. Hubbell; Vice-Pres., H. E. Riggs; Secy. and Treas., F. Hodgman.

NORTHWESTERN ELECTRICAL ASSOCIATION. The 7th annual convention of this association was beld at Milwankee, Wis., on Jan. 18-20. The morning of the first day was well occupied with reports from officers and committees. The question box was opened and the questions, which pertained to methods of enlarging "filed-up piants" and the best method for supplying incandescent lamps to customers, were briefly discussed.

At the afternoon session the President, Mr. F. A. Cope-

land, read his annual address. In this the reasons for the rspid and very satisfactory growth of the associa tion were outlined, and suggestions were made to still further increase its membership and usefuloess. Papers were presented as follows:

"Trend of Central Station Design," B. J. Arnold; "Meter Rate Systems," E. L. Debell, and "Electricity Direct from Coal," Prof. A. J. Rogers.

The morning of the second day the report of the Committee on Nominntions was adopted, and the following officers were elected:

Henry L. Doherty, Madison, Wis.; First Vice-Pres., John H. Harding, Laporte, Ind.; Second Vice-Prea., S. B. Livermore, Winona, Minn.; Secy. and Treas. Thomas R. Mercein, Milwaukee; Directors, Col. W. W. Bean, St. Joseph, Mich.; J. H. Culver, Decatur, Ill., George Innes, Eagle Grove, Iowa.

George Innes, Eagle Grove, Iowa.

Prof. Dugall C. Jackson then read a paper cotitled "Inductive Loads on Alternating Current Transformers."

Mr. George L. Thayer read a paper on "Design of Secondary Circuits in Alternating Plants." Mr. H. M. Maxim's paper on "Electric Vehicles and Their Relation to Central Stations" was, in his absence, read by Mr. Lord.

The last paper, "Utilization of Exhaust Steam," was by Mr. J. H. Harding. Mr. Thomas R. Mereien was appointed a delegate to attend the annual meeting of the National Electric Light Association. Electric Light Association.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

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oper	led.	Work.	Place.	News.
Feb.	2. Rec	eedar wood, N	w York, N. Y	Jan. 20
Feb.	Z.Bri	dge, Brooklyn, r	w York, N. Y	Jnn. 26
Feb.	2. Seb	ool hullding, Ne	w York, N. Y	Jan. 26
Feb.	2.Ho	spitai buildings,	St. Louis, Mo Rapids, Mich.	Jan. 26
Feb.	3.Pot	ver house, Grand	Rapids, Mich	Jan. 26
Feh.			s), Spartanburg, S	
	Ac	lvertised, Eng. N	lewa, Jan. 12 and	19.
Feb.	3. Pip	e sewers, Sparta	nburg, S. C	Jan. 12
	Ac	lvertised, Eng. N	iews, Jan. 12 and	19.
Feb.	3.Dr	edging canais, K	eweenaw Point, A	lichJan. 5
	Ad	vertised, Eng. N	lews, Jan. 5 to 26	
Feb.	3. Pile	bridge, New H	aven, Conn	Feb. 2
Feh.	4. He	ating and ventila	ting, Cleveland, O	Jan. 19
Feb.	5. He	ating and ventil	ating, Burlington	, Vt., Jan. 19
Feh.	6. Brl	ck paving, Tole	io, O	Jan. 12
Feh.	6. Eie	ctrie lighting, Jo	hnstown, N. Y	Jan. 19
Feb.	6. Bri	ek sewers, Ottav	va, Ont	Jan. 19
Feb.	6. Ch	arch building, F	resno, Cal	Jan. 19
Feb.	6.Ste	ei bridge, De So	to, Mo	Jan. 19
Feb.	6. Ma	cadam roads (2)	Vevay, Ind	Jan. 19
Feb.	6. Cui	bing and cut st	one, Burlington, V	tJan. 26
Feb.	6. Ait	erations, etc., fo	r bospital, New Y	ork. Jan. 26
Feb.	6.Ma	cadamizing. Piai	nfield, N. J	Jan. 26
Feb.	6.Cu	bing, etc., Atlan	nta, Ga	Jan. 26
Feb.	62 1210	otein plant Liuii	One	Inn 96
	Ad	vertised, Eng. N	ews, Jan. 26 and Albany, N. Y	Feb. 2.
Feb.	6. Bri	ck paving, etc.,	Albany, N. Y	Jan. 26
Feb.	6. Iro	n bridge, David	U.y, Neb	Feb. 2
Feb.			over, Colo	Feb. 2
Feb.	6. Ra	iway work (40 r	niles), Georgiana,	Aia. Feb. 2 Feb. 2
Feb.	6. Her	ting, etc., New	YOFK, N. Y	Feb. 2
Feb.	7. Iro	n work, etc., Pb	liadelphia, Pa	Feb. 2
Feb.	7. Sch	ool buildings. P	hiiadelphia, Pa	Feb. 2
Feb.	7 Wa	ter pine, casting	gs, etc., St. Louis	Mo Jan 20
Feb.	7. Ses	er materials. A	tlanta, Ga	Jan. 26
Feb.	7 Lay	ing water-pipe.	ete., St. Louis, M	o Jan 26
Feb.	7 Ele	ctric plant Wo	odsfield O	Jan 19
Feb.	7 Wa	ter bonds Colur	nbus, Miss	
Feb.	8 Ro	d work (2916 m	iles), Rockville, I	nd Jan 19
Feb.	& Rei	dee work Rutis	nd Vt	Inn 26
reb.	A.d	vertised Eng N	nd, Vtews, Jan. 19 to Fe	h 2
Feb.	& Rai	lway (50 miles)	Burlington, Vt.	Ian 26
reo.	A d	verticed Eng N	ews, Jan. 19 to Fe	h 2
Feb.	e Can	res pine (13 mile	s), Steelton, Pa	Jan 96
1.60.	A A	verticed Eng N	ews, Jan. 26 and	Feb. 2
Feb.	& Do	k lime New Vo	rk, N. Y	Jan 26
Feb.	& Dro	doing harhor et	e., Baltimore, Md	Feb. 2
Feb.	& Cla	aning receiving h	asins, New York,	N. Y. Feb. 2
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Feb. S. Engine house, Pittsburg, Pa Feb. c. Faring bonds, Reading, Fa Feb. c. Fireproof contains, can antenie, Tex.	Feb. 2
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reo. U. Drick sewers, Stuckton, N. J.	lan 26
Man & Manual State of	tun 26
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Feo. 9. Cas francine, Exeter, Cai. Feo. 10. Exectic Inguing, 10rg, Fa. Feo. 10. Exectic Inguing, 10rg, Fa. Feo. 10. Sait Uniding, Acyser, W. Va. Feo. 10. Superstructure, etc., waimer, Ont.	Sent Za
FCU. 10. ESECUTE Diant. Malawali N. J.	E-0. 2
reo. 10. Superstructure, etc., walmer, Ont.	Feb. 2
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Feo. 10 Stone harring thereann it	Mob 2
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Feo. 11. Stone hagging, Cleverana, U	n Mon 1
Feb. 11. School Dinglag, Algona, ia	k'00 '
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kan II Wooden Britishes born Ach	Feb. 2
reo. 11. Grading and graveling, Charleston, 111 Feo. 11. Wooden Bringes, York, Neb. Feo. 11. School bunding, Cleveland, O. Feo. 15. Steel nuil, New Orleans, La. Advertised, Eng. News, Jan. 19 to Fe	Jan. 18
Fee 13 Steel bull New Hittenan La	Jan. 20
Advertised but how less to be	Jan. 10
reu. 13. Water bonus, Reno, Rev	dan. 10
Well La Court house Book sheroes Tox	100.22
hen is transition of the transit transit the	
reo. 10. dasbithe gas plant, Osage, Okla	
Feb. 10. Dittil (10 miles), new mauria, mo	Feo. 2
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Feb. 14. Sensol building, New York, N. Y. Feb. 14. Sensol building, New York, N. Y. Feb. 14. Liectric Wifing, St. Atomis, Vt. Feb. 14. Electric Wifing, St. Atomis, Vt. Feb. 14. Electric Wifing, Totavine, Pa.	Feb. 2
hee to have the willing, bu Albans, vt	Feb. 2
res. 11. Electric willing, Pottsvine, Pa	Feb. 2
Feb. 14. Sewer conus, Grass variey, Cal	Feo. 2
reb. 14. Sewer bonus, Grass variey, Cal	Feb. 2
Feb. 14. Drick paving, etc., St. Louis, Mo	Jan. 19
Feb. 14. Brick paving, etc., St. Louis, Mb Feu. 15. Irrigation canal, Alouquerque, N. M. Auvertised, Eng. Kews, Jan. 19 to Fe Feb. 15. Brick paving, etc., Cleveland, O.	Jan. 19
Feb 15 Brick Barrier Eng. News, Jan. 19 to Fe	D. Z.
reb. 15. Brick paving, etc., Cleveland, U	Jan. 26
Feb. 15. School bullering, fromwood, silen Feb. 15. Driuge metal, freiena, Afk	Feb. 2
Feb. 15. Bridge metal, Helena, Ark	Feb. 2
Pet 15 Water works (2), Seleca, Kall	Feb. 2
Feb. 15. Water-works, Tuskegee, Ala	Feb. 2
Advertised, Engineering News, Feb. 2	
Feb. 15. Electric plant, luskegee, Ala	Feb. 2
Advertised, Engineering News, Feb. 2	
reb. 10. Sinking a shart, Centrana, ra	Feb. 2
reb. 16. Boat house and armory, Annapons,	udJan. 20
Feb. 15. Sinking a shar, Ceatrana, ra	n Jan. 19
Feb. 16. Court nonse, Bucknannon, W. Va	Jan. 19
red. 10.5wing bridges (2), Alexandria, Egypt	Jan. 19
Fed. 16. Swing bridges (2), Alexandria, Egypt Fed. 16. Electric Installation, Fort Point, Tes Advertised, Eng. News, Jan. 19 to Fe Feb. 16. School omiding, Eliendale, N. Dak.	Jan. 19
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Feb. 10. School ounding, Enemane, N. Dak	Jan. 12
Feb. 10. Macadamizing, Decatur, Ind	Jan. 12
Feb. 16. Macadamizing, Decatur, Ind Feb. 18. Water-works, Spring Lake, N. J Advertised, Eng. News, Jan. 26 and	Jan. 20
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Feb. 18. Boner nouse, ranadelphia, ra Feu. 18. Artesian well, Fort Meade, S. Dak	Feb. 2
Advertised Engineering News Fob	· · · · · · · · · · · · · · · ·
Feb. 20, Park work, Boston, Mass	Feb 9
Fen. 20. Steam plant, St. Peter, Minn	Feb 9
Feu. 20, Paving, etc., Anderson, ind.	Feb 2
Fen. 20. Brick and asphalt paying, Geneva N	V Feb 2
Feb. 20. Brage, Rockford, H. Advertised, Engineering News, Feb. Feb. 20. Park work, Boston, Mass. Feb. 20. Steam plant, St. Peter, Minn. Feu. 20. Paving, etc., Anderson, ind. Feu. 20. Brick and asphalt paving, Geneva, N. Auvertised, Eng. News, Feb. 2 to 1c. Auvertised, Eng. News, Feb. 2 to 1c. Feb. 20. Water-works, Eikhart Lake, Wis Feo. 20. Latt orioge dear Taylor St., Chicago, Advertised, Engineering News, Lee.	* · · · · E CD. 2
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Advertised, Engineering News, Dec.	71
Feb. 20. Stone heads, Newark, N. J.	Ian 10
Advertised, Eng. News, Jan. 19 to Fo	eh. 54
Feb. 20, Buoys, etc., Tompkinsville (S.I.), N.	YJan. 19
Advertised, Eng. News, Jan. 19 and	26.
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Feb. 21. Cement and atone, Tybee Island, Ga	Jan. 26
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RAILWAYS.

RAILWAYS.

ACME TAP.—This company, has been incorporated in Texas, with headquarters at Quanah, Tex., to construct about 1½ miles of spur line from the Fort Worth & Denver City R. R. to the Saline Cement Plaster Co.'s works. F. H. Quincy, Director.

ANNISTON & COOSA COAL FIELD.—This company is being organized, with a proposed capital stock of \$250,000, to build a railway from Anniston, Ala., into the Coosa coal fields, about 40 miles distant. W. W. Sexton, F. M. Hight and W. F. Johnston, all of Anniston, are said to be interested.

ARKANSAS, GUTHRIE & CALIFORNIA.—Henry Hudson, Pres., Guthrie, Okla., informs us that the survey was to have been completed last week for this new line between Guthrie and Shawnee, Okla., about 50 miles. The right of way is heing secured. The Toledo Construction Co.,

Toledo, O., bas the contract for construction at ment, and will begin work within 60 days after a pletion of surveys. The company must also my section of road in eight months. Further extens projected northerly to Medford and southerly to Ind. Ter., making the completed line 250 miles of T. C. Frazier, Ch. Engr., Seneca, Kan.

ARKANSAS & NORTHWESTERN.—This complete incorporated in Arkansas, with a capital seen incorporated in Arkansas, with a capital seen incorporated in Arkansas, with a capital seen incorporated in Arkansas, with a capital been incorporated in Arkansas Ry, of which Wm. Burns Stamps, Ark., is President. W. I. Foster and S. L. are incorporators.

stamps, Ara., is fresident. W. I. Foster and S. 1 are incorporators.

BUFFALO & SUSQUEHANNA:—Reports state line will soon be extended from Weltsville to Be Scio and Belmont, N. Y., about 20 miles. If build roadbed constructed several years ago will proused. H. Herden, Ch. Engr., Galeton, Pa.

CHIHUAHUA & PACIFIC.—Bids are being rethis company, according to reports, for contractive piles, including derricks, hoisting engines, stevators, etc., to be used on the construction of from Chihuahua, Mex., via Guerrero, to the Pacifico Company, according to the Pacifico Company, and from the Brooks Locomotive for local company, and from the Brooks Locomotive five locomotives, and from the Ensign Car Mig Pullman Co., and the Barney & Smith Co., for Scars and 10 combiostion psseedger coaches.

CUBA.—Press reports state that the Sagua Leader of the Supplication of the Pacific Company of the Pa

nve locomotives, and from the Ensign Car Mfg. Co. the Pullman Co., and the Barney & Smith Co., for 80 freight cars and 10 combiostion passeoger coaches.

CUBA.—Press reports state that the Sagua La Grande Ry, has passed into the hands of the capitalists who recently bought the Havaoa street railway system. The company owned 70 miles of road.

DECKERVILLE, OSCEOLA & NORTHERN.—E. M. Ford, Vice-Pres. and Mgr., Deckerville, Ark, informs us that Forrester & Warren, Golden Lake, Ark, have been awarded the contract for 21 miles of grading, and John Anderson, Bardstown, Ark, the contract for five miles on this line, to be built from Deckerville to Paw Paw Junction, Mo., 102 miles. The tie contract for five miles on this line, to be built from Deckerville to Paw Paw Junction, Mo., 102 miles. The tie contract for five miles on this line, to be built from Deckerville to Paw Paw Decker, Press, Newport, Ark; B. B. Gordon, Ch. Engr. DELAWARE.—In lis ccmpany was incorporated at Dover, Del., Jan. 26. It includes the old Delaware R. R. now the Delaware Division of the Philadelphia, Wilcolington & Baltimore, the Queen Ann & Kent, the Delaware & Chosapeake and the Cambridge & Seaford railways. The capital of the new company is \$2,987,000, or \$300 dool more than the present capital of the Delaware Railroad Co. H. F. Kenney, Press., Philadelphia, Pa.; E. T. Warner, Vice-Pres., Wilmington, Del.

DENVER & RIO GRANDE.—E. T. Jeffrey, Pres. and Gen. Mgr., Denver, Colo., informs us that this company will standard gage its line from La Veta to Alamosa, and widen the gage of nearly 34 miles. The contracts for the work are let, the principal contractors being this will build 26% miles of new road in a new location, and widen the gage of nearly 34 miles. The contracts for the work are let, the principal contractors being this will build 26% miles of new road in a new location, and widen the gage of nearly 34 miles. The contracts for the work are let, the principal contractors being this will build 26% miles of new road in a new location, and

grees. No new securities will be issued, but the expenditures will be met out of assets in the treasury

EAST TENNESSEE & WESTERN NORTH CAROLINA.

—Reports state that an extension of this line is projected from its present eastern terminus at Cranberry, N. C. to a connection with the Seaboard Air Line, and that a bill for that purpose has been introduced into the North Carolina legislature. R. F. Hoke, Pres., Raleigh, N. C.

ERIE EASTERN.—We are informed that Hoover & Stearns, Columbus, O., are said to have the contract for the construction of this line from Eric to Mill Village, via Waterford, Pa., 20 miles. A new survey will probably have to be made, and the right of way has yet to be obtained. Columbus parties are reported to have agreed to furnish capital to build the line and extend it to Titusville during the coming summer. John C. Whitla, Pres., Pittsburg, Pa.; E. J. Howard, Vice-Pres., Erie.

FORT DODGE & OMAHA.—Bids are asked by C. E. Loss & Co., contractors, Pullman Bidg., Chicago, Ill., for about 40 miles of grading, averaging 20,000 cu. yds. a mile between Taya and Carnarvon, Ia. on this extension of the Illinois Central R. R., as stated in our advertising columns.

llinois Central R. R., as stated in our advertising columns.

FORT SMITH & WESTERN.—This company has been
incorporated in Arkansas, with a capital stock of 85,
600,000, to build from Fort Smith to Kingfisher, Ind. Ter.
The directors are: John Valle, Fort Smith, Ark: Geo. Hayden, Ishpeming, Mich.; Solomon S. Curry, Ironwood,
Mich., and others.

FORT WORTH & RIO GRANDE.—W. B. King. Ch.
Engr., Fort Worth, Tex., Informs us that nothing has yet
been done towards the proposed extension of this line,
ont even in the way of surveys. John Hornhy, Pres.

GEORGIA & ALABAMA.—We are informed that the directors of the Georgia & Alahama Ry. Co. and of the
Georgia & Alahama Terminal Co. have authorized J. Skelton Williams, Pres., Richmond, Va., to contract iomediately for the construction of the \$100,000 steel drawhridge across the Savannah River, between Savannah
of dredging along the water front is contemplated. The
construction of 16 miles of new track from Medrim into
Savannah was also authorized. C. P. Hammood, Ch.
Engr., Savannah.

KANSAS & TEXAS COAL.—Geo. B. Leighton, VicePres., St. Louis, Mo., Informs us that this company has
built six miles of railway from Brevier towards Excello,
Mo., and expects to bave the remaining four miles in operation by aext May. The work is being done by the
company. B. F. Hobart, Pres., St. Louis.

LOWELL & HASTINGS.—W. H. Clark, Gen. Mgr., Lowcoll, Mich., informs us that W. A. Smith & Co., Grand

company. B. F. Hobart, Pres., St. Louis.

LOWELL & HASTINGS.—W. H. Clark, Gen. Mgr., Lowell, Mich., informs us that W. A. Smith & Co., Grand Rapids, Mich., have been awarded the contract for the construction of this proposed line from Alton to Belding. via Slayton, Mich., 17½ miles; work to begin April I. The surveys have been made, most of the right of way obtained and all of the capital secured. C. A. Gordon, Ch. Engr., Grand Rapids, Mich.

MANKATO & NEW ULM.—Surveys have begun on this proposed branch of the Chicago & Northwestern Ry, from Mankato to New Ulm, Minn., via Blue Earth and Browa counties, about 24 miles. J. E. Biunt, Ch. Engr., Chicago, Ill.

MOORE COUNTY & WESTERN.—The time for the com-

MOORE COUNTY & WESTERN.—The time for the completion of the extension of this line from Aberdeen. N C towards Concord, has been extended from Marcn 1 to Sept. 1, as the grading is quite heavy. A contract will soon be made for eight miles of new ralls, twelve miles

of rails having already been bought. Surveys to Concord are in progress, and will be completed in about two months. W. B. Eekhout, Supt. of Construction; H. L. Thurston, Ch. Engr., both of Aberdeen, N. C.
NATIONAL YUCATAN SOUTHEASTERN.—This company has been organized to hulid a single track railway entering at San Antonio, Yucatan, with main line running north to Valladolid; west to Peto, and south to the boundary near Beliza, British Honduras. Other linea will later be built southwest to Chausantocruz, and to the bary of Ascension and Espiritu Santo, on the Caribban Sea. The capital stock is \$1,000,000, and among those interested are said to be H. P. Booth, Pres. of the New York & Cuba Mail Steamship Co.; W. D. Munson, of the Munson Steamship Co., and J. M. Motley, of the Phoruton N. Motley Co., 43 John St., New York. The purpose of the company is to open up a large, rich and hitherto undeveloped country in Yucatan.
ONTARIO & RAINY RIVER.—D. F. Burk, Port Ar-

herto undeveloped country in Yucatan.

"NTARIO & RAINY RIVER.—D. F. Burk, Port Ar
"pur informs us that re-surveys for location purposes are

"w being made by ten parties for this proposed line from

"t Arthur, Ont., to Winnipeg, Man., via Shebandowan

"d Fort Francia, a distance of 400 miles. H. Fauquier,

Port Arthur, is now building 20 miles, and 50 miles on

"western end were constructed last summer under the

me of the Scutheastern Ry. The whole line is expected

be built within two years. H. Nichols, Pres., Toronto,

"L. Thos. H. White, Ch. Engr., Port Arthur.

Li. Thos. H. White, Ch. Engr., Port Arthur.

OREGON R. R. & NAVIGATION.—N. Roman, of Spone, Wash., is reported to have been awarded the connect for constructing a portion of the extension of this e from Wallula, Wash., to Lewiston, Idaho.

ARRAL & DURANGO.—This company was incorporated Colorado Jsn. 26, with \$1,000,000 capital stock, to oper under concessions secured by Samuel E. Gill. Pitrs. Pa. The directors are: W. F. Armstrong, Thomas Armstrong, John R. McGinley and others, of Pitts-15.

burg.
PHILADELPHIA & READING.—This company is said to be considering the advisability of building a short line between Mullica Hill., N. J., and Glenloch, the terminus of the Gloucester branch. At present Mullica Hill is 31 miles from Philadelphia by way of Williamstown Junction, and the new connection would reduce the distance but one paid. -half

about one-half.

QUINCY, CARROLLTON & ST. LOUIS.—This company was incorporated in Hilmois Jsn. 27, with \$500,000 capital, to huld a line from Quincy to Vandalla. Ill., to be operated in connection with the Litchfield, Carroliton & Western Ry., which extends from Barnett west to the Illinois River. The latter road will be extended on the east to Vandalla. msking through connection from Quincy to St. Louis. The Incorporators are: David R. Francis and William P. Kennett, St. Louis, Mo.; L. P. Peehles, Carlinville, Ill.; George W. Davis, James McNabb and Ornan Pierson, Carroliton; Thomas H. Francis, St. Louis, Mo. SOUTHERN, ALA.—Bids are asked by R. M. Quigley & Co., Georgiana, Ala, until Feb. 6, for grading, timber work and tunnel on 45 miles of new rallway between Pine Apple and Repton, Ala. R. Montfort, Engr., Louisgeneral contractors for this work. E. L. More, Pres. TillyNDER BAY NEPLOON & ST. JOSEPH.—D. F.

THENDER BAY NEPIGON & ST. JOSEPH.—D. F. Burk, Gen. Mgr., Port Arthur, Ont., Informs us that surveys have been made for 80 miles of line, and that the proposed route is from Port Arthur to St. Joseph, via Nepigon. Ont., about 200 miles. The company receives a subsidy of \$3,200 a mile from the Dominion government, and \$3,000 from the Province. Work is expected to commence in May. I. L. Matthews, Pres.; Z. Malhiot, Ch. Engr., both of Port Arthur.

Engt., both of Port Arthur.

TEXAS WESTERN & CIRCLE BELT.—This company was incorporsted in Texas Jan. 25, with \$5,000.000 canltai stock, to hulld from Gsinesville to Ahilene, Tex., about 170 miles. The directors sre: A. B. Donaldson and J. L. Simbson, of Gsinesville, Tex.; Samuel H. Buck, of New York; J. W. Veal, of Amarillo, Tex., and others.

TOPEKA, WESTMORELAND & WATERVILLE.—G. S. Gleed, Topeka, Kan., informs us that nothing has yet been done towards building this proposed line, to be 150 miles in length. The incorporation was noted in our issue of Jan. 19.

STREET AND ELECTRIC RAILWAYS.

YARMOUTH, ME.—Reports state that a new company has secured control of the Yarmouth electric rallway, and that the equipment will be improved. Seth L. Larrabee, Pres.; Henry P. Cox, Treas., of Portland, Me. BOSTON, MASS.—We are Informed that the Pennsylvania Steel Co., Steelton, Pa., was awarded the contract Jan. 24 for the erection of the Dudley St. terminal of the Boston Elevated Ry., involving about 850 tons of steel structure. Work is to be completed by Aug. 1. Wm. A Gaston, Pres.; Geo. A. Kimball, Ch. Engr., both of 101 Milk St., Boston.

Milk St., Boston,

MEDFIELD, MASS.—W. W. Mitchell, of Medfield, Pres
of Norfolk & Western St. Ry., Informs us that the track
head and heen iald on this new line between Medfield and
bedham, via Westwood, nine miles. Work is now in
progress on the turnouts and the setting of poles, and it
is expected to have the line ready for operation early in
March. Hodges & Harrington, Engrs., 60 State St.,
Boston.

March. Hodges & Harrington, Engrs., 60 State St. Boston.

WALTHAM, MASS.—A charter will soon be asked for the Waltham, Ayer & Pepperell St. Ry. Co.. which proposes to build from a connection with the Waltham and Boston street railways at Waltham to the state line at Pepperell, via Concord, Lexington, Littleton and Ayer.

WIHITMAN, MASS.—The selectmen will give a hearing, Feb. 10, to the application of the Brockton & Plymonth St. Ry. Co. for a franchise through this town. John P. Moore, Brockton; Horatio F. Copeland, Whitman, and others are directors.

BROOKLYN, N. Y.—The Brooklyn Union Elevated R. R. Co. was incorporated, with a capital of \$18,000,000. It is organized to operate the franchises of the Brooklyn Elevated R. R. Co., the Uolon Elevated R. R. Co. and the Seaside & Brooklyn Bridge Elevated R. R. Co., which together with the property of those companies, were attaly sold at public auction. The directors are: Frederick P. Olcott, Bernardsville, N. J.; James T. Woodward Charles Parsons. Edward Lauterbach and others, of New York; William Hall, Jr., of Summit, N. J.; G. W. Wingate, Brooklyn.

GREENWICH, N. Y.—This village granted a franchise

gate, Brooklyn.

GREENWICH, N. Y.—This village granted a franchise to the Greenwich & Schuylerville Electric Ry., Jan. 28, to build on Elm, Main and other streets. Madigan & Warner, of Mechanicsville, are said to be surveying at present between Schuylerville and Stillwater. Jos. H. Powers, Secy., Lansingsburgh, N. Y.

HUDSON, N. Y.—The Colonial Trust Co., New York, trustee for the Columbia & Renssclaer Ry. & Lighting, Co., has bought the rights in the water power of Kinderheck Creek, Stuyvesant Falls, at \$125,000. Reports state that this is a step towards the construction of an elec-

ville was filed Jan. 28 with the secretary of state. KEYPORT, N. J.—We are informed that the Keyport & Matawan St. R. R., now operated between Keyport and Matawan, 3.75 miles, will be converted from a horse car line into a trolley line and will probably be extended to Atlantic Highlands. For further information see Electric Light nnd Power. Address the Middlesex & Monmouth Electric Light, Heat & Power Co., Box 243, Equitable Bidg., New York.

mouth Electric Light. Heat & Power Co., Box 245, Equitable Bldg., New York.

PERTH AMBOY, N. J.—The Perth Amboy R. R. Co., recently granted a franchise in this town, informs us that plans have not yet been completed for the proposed trolley line. Lewisohn Bros., of the Raritan Copper Works, are interested.

ERIE, PA.—Dr. B. A. Smith, ISth and Peach Sts., informs us that contracts will soon be let for the construction of the line of the Erie Transit Co. from Erie to Combridge Springs, via Edinhoro. Surveys will be completed in the spring. The right of way has been obtained and part of the capital secured. Willington Dowling, Pres.; J. F. Walker, Secy.—Another electric railway from Erie to Northeast, 14 miles, is also heing promoted. A franchise has been obtaiced in Eric and along most of the country roads. This line will probably be a link of the projected system between Cleveland, O., and Buffalo, N. Y., parallel to the Lake Shore R. R.

LANSDALE, PA.—The Lansdale & Harleyville Ry. Co. will soon apply for a charter, according to reports, with a capitul stock of \$50,000, to build a trolley line from Lansdale to Harleysville. J. S. Geller, Pres.; A. C. Godshall, Secy. and Treas.

PHILADELPHIA, PA.—The Llodley Ave. Ry. Co. and Fischer's Lane Pr. Co. merce in the second control of the control of the control of the projected system to be the control of the form Lansdale to Harleysville.

shall, Seey, and Treas.

PHILADELPHIA, PA.—The Liodley Ave. Ry. Co. and Fischer's Lane Ry. Co. were incorporated, Jan. 26, both with a capital stock of \$12,000. These railways, together with tracks laid and rights which the Union Traction Co. already possess, will complete a through line from Frank-ort to Germaotown, and with the Germaotown & Fairmount Park Ry. to the Falls of Schuylklii. The incorporators are: Michael Ehret, David C. Golden, William Whntron, Jr., Pres.; Alex. Rennick and Richard F. Bower, all of Philadelphia.

Bower, all of Philadelphia

WASHINGTON, D. C.—Bids were nsked until Jan. 28, by the Columbia Ry. Co., 1509 Florida Ave., N. E., for furnishing 400 round chestnut poles, 30, 35 and 40 ft. in length with tops 8 lns. In diameter, and also for 22,000 cross ties. T. J. King, Seey.

BALTIMORE, MD.—It is reported that an agreement has been made whereby a syndicate headed by Alexander Brown & Sons will assume control of the Baltimore Consolidated Ry. and other companies in this city. It is proposed to build a central power station to generate 15,000 HP., at a cost of about \$500,000.

ALLIANCE, O.—We are informed that L. L. Balcher.

ALLIANCE, O.—We are informed that L. J. Reigler. Canton, O., and Hugh Blakely, are making surveys for an electric railway between this city and Akron.

CLEVELAND, O.—A new company, composed of Ja-cob B. Perkins, David Morrison, H. W. S. Wood and others, have applied to the council for permission to build an extensive system in the west and south sides of

HAMILTON, O.—The county commissioners have granted a franchise to build on the Hamilton, Eaton, Newcomb & Somerville Turnpike. J. E. Anderson, Pres., Eaton, O.

MARYSVILLE, O.—The Marysville, Richwood, Magnetic Springs & Delaware Electric Ry. Co. is seeking a franchise from the commissioners of Union county. Surveys will soon be made. J. P. Eubanks, Secy., Magnetic Springs, O.

Springs, O. SPRINGFIELD, O.—S. L. Nelson, Gen, Mgr. of Springfield Ry. Co., informs us that construction work is underway for the extension of this company's lines to Snyder Park and the Pythian and Odd Fellows' Homes, 1½ miles. Wm. B. McKinley, Pres., 19 Scott St., Chicago.

TOLEDO. O.—The commissioners of Lucas county have graoted a franchise to the Seagrave Bros. for an electric railway to run from this city to Sylvania, via West Toledo.

ledo.

ANGOLA, IND.—Sol. A. Wood, Angola, informs us that no further steps than organization have been taken by the Northeastern Indiaoa St. Ry. Co. towards huidlog the proposed line from Orland to Fort Wayne, via Angola Waterloo, Auburn and Garrett, 60 miles S. A. Power, Pres., Angola; M. E. Griswold, Ch. Engr., Auburn, Ind.

NOBLESVILLE, IND.—The Noblesville, Alexandria & Fartford City-Electric Ry. Co. is said to have been organized with a proposed capital of \$50,000, to hulld from Noblesville to Hartford City. This is the project being promoted by A. J. Applesate, Perklasville, ind.; W. R. Myers, Anderson; George Fertig, Noblesville, and others.

WARSAW, IND.—Nosh J. Clodfelter secured a franchiss from the council Jan 25 for the construction and opera-tion of an electric rallway from Warsaw to Winona Lake.

CHARLESTON, H.L.—The council bas granted a franchise to the Charleston & Mattoon Electric St. Ry. The line must be in operation by Nov. 1, 1900.

ROCKFORD, H.L.—The Rockford & Belvidere Electric R. R. Co. has been incorporated, with \$50,000 capital stock, to build from Rockford to Belvidere with branches. The incorporators are: H. L. Jewell, W. H. Vorhis, C. B. Masslich, W. D. Sheahan and F. A. Poor, all of Chicago.

Chicago.

FORT SMITH, ARK.—W. D. Boyce & Co., Chemical Bidg., St. Louis, Mo., have been selected as the engineers and contractors for a complete electric railway system, with all track, overhead work, power house equipment, cars, etc., to be built in this city, for the Fort Smith Traction, Light & Power Co.

FLORENCE, COLO.—Thomas Robinson, of Florence, is said to be at the head of a project to construct a rapid

transit line between this city and Canon City. Surveys will be made at once.

TACOMA, WASII.—Reports state that Henry Bucey, representing the Scattle & Tacoma Electric Ry. Co., Is interested in the proposed construction of an electric line between these two cities, to be 31 miles in length.

PASADENA, CAL.—J. G. Rossiter has been granted a franchise to build in this city.

OTTAWA, ONT.—The Ottawa Electric Ry. Co. has applied to the Dominion Government for permission to extend its line to Bell'a Corners.

MINATITLAN, MEX.—We are informed that contracts have been made for the construction of three tram lines connecting the neighboring towns of Minatitian, Jailipan and Azaian with the new Tehuantepee Isthmus R. R.

ELECTRIC LIGHT AND POWER.

DEERING, ME.—The Deering Electric Light & Power Co. has applied for permission to build a sub-power station on Forrest Ave.

ST. ALBANS, VT.—Bids are asked until Feb. 14 for Installing a system of conduits and wiring for electric lighting in the custom house. W. B. Howell, Asst. Sect. Treasury Dept., Washington.

PEABODY, MASS.—At the town meeting in March the question of extending the lighting system to South Lynnfield will be considered.

WHITMAN, MASS.—The plant and property of the Whitman Electric Co. have been sold to a new company by J. R. Graham, of Quincy, Mass. F. S. Davis, Mgr. WALLINGFORD. CONN.—This place voted Jan. 23 to issue \$45,000 in 20-year 3½% bonds for a municipal plant. Burgess Hodgkinson may be addressed.

ALBANY, N. Y.—The trustees of public buildings are consideriog the question of installing a plant in the State Capitol building at a cost of about \$100,000. I. G. Perry, State Arch., Albany.

NYACK, N. Y.—The Nyack Electric Light Co. proposes to extend its service to Sparkill, Grand View and Plermont.

to extend us service to Sparkill, Grand View and Plermont.

SYRACUSE, N. Y.—The village of Elmwood has granted a franchise to the Elmwood Light & Power Co. and the Elmwood Water Co., both recently incorporated with a capital stock of \$100,000 each by Robt. C. Pruyu, Albany, N. Y.; Wim. L. Elkins, Ir., Philadelphia, and John Dunfee and W. B. Kirk, of Syracuse. A 5-year contract for lighting the village has also been secured.

MATAWAN, N. J.—We are informed that the Middlesex & Monmouth Electric Light, Hent & Power Co., Box 243, Equitable Eldg., New York, wants bids until Feb. 10 for furnishing a 250-HP. Corliss engine, 250-HP. boilers, 150-K-W. alternating dynamos, overhead wires, lamps, transformers, etc., for its proposed light and power plant. The plant will have a capacity for furnishing 175 2,000-e. p. are and 3,000 l6-c. p. Incandescent lights.

WESTFIELD, N. J.—The township committee will probably submit to the people the question of building a municipal plant. Committeeman Dennis may be addressed.

POTTSVILLE, PA.—Bids are asked until Feb. 14 for

POTTSVILLE, PA.—Bids are asked until Feb. 14 for installing conduits and electric wires for the lighting of the post office. W. B. Howell, Asst. Secy. Treasury Dept., Washington.

FREDERICKSBURG, VA.—An election will be held Feb. 28 to vote on the question of issuing bonds for a

plant.

GREENVILLE, S. C.—Edward E. Proctor, Wakefield.
Mass., it is stated, has decided to build an extension and
to install new machinery at the gas and electric plant, recently purchased by him; estimated cost, \$15,000. We
are informed that in two weeks more information can be

given.

COLUMBUS, GA.—The Stanley Electric Mfg. Co., Pittsfield, Mass., has been awarded the contract, at about \$60,000, for furnishing and installing the generators for the proposed plant of the Columbus Power Co. G. Gunby Jordan, Treas., Columbus, Ga., may be addressed.

LAKE CHARLES, LA.—The Fred. W. Wolf Co., 139
Rees St., Chicago, Ill., is reported to have been awarded the contract by H. B. Milligan and W. D. Stone for a \$5-ton ice making plant. Messrs. Milligan and Stone have applied for a franchise to operate an electric plant.

GURLEY, ALA.—J. W. Roberts writes us that he has

GURLEY, ALA.—J. W. Roberts writes us that he has contracted for a dynamo, etc., to furnish about 300 16-c p. incandescent lights. He still wants the necessary

lamps, etc.

TUSKEGEE, ALA.—Bids are asked until Feb. 15 for furnishing the materinis and for constructing the proposed plant and water-works, as described in our advertising cclumns. Alber & Byrne, Engrs. 1821 2d Ave., Birmingham, Ala.; W. W. Thompson, mayor.

SWEETWATER, TENN.—The aldermen are considering the question of asking Knoxville to furnish this place with 15 2,000-e. p are lights.

AKRON, O.—Bids are asked until Feb. 14 for installing a system of condults and wiring for electric lighting at the post office. W. B. Howelf, Asst. Secy. Treasury Dept., Washington.

Washington.

COSHOCTON, O.—J. M. Ickecs, P. M., Newark, O., writes us that plans and specifications for the proposed plant are not yet ready. Estimated cost, \$15,000.

SIDNEY, O.—P. F. Sarvey, Pres. Council, writes us that the proposed plant will have a capacity for 100 2,000-c. p. arc and 5,000 16-c. p. incandescent lights. No further information can be given until about April 1.

DILLSBORO, IND.—R. H. Chance writes us that this place has voted against building a plant.

ALGONAC, MICH.—This place is reported to have voted against issuing \$10,000 in bonds for a plant.

PEARL CITY ILL.—I. J. Treas, Village Cik., writes us

PEARL CITY, ILL.—J. J. Treas, Village Cik., writes us that it has not been decided whether to build a plant. The question will be considered at the meeting of the hoard of trustees Feb. 6.

warm of trustees Feb. 6.

WATERTOWN, WIS.—The council has decided to ask for bids for lighting this city for five years. The 10-year franchise of the Watertown Electric Light Co. will expire in May. The question of municipal ownership is heing considered.

considered.

WINONA, MINN.—The city engineer is preparing plans for a municipal plant.

DES MOINES, IA.—The Des Moines Edison Light Co. has decided to spend about \$300,000 for improvements to its plant. C. H. Fraser, Mgr.

FONDA, IA.—M. G. Coleman, Cik., writes us that at the election Jan. 23 it was voted to hulld a plant. The council will take further setton on the question. Estimated cost, \$5,000. R. F. Beswick, Chn. Com.

MAYVILLE, N. DAK.—The city additor writes us that

the mayor has been authorized to procure an engineer to prepare plans and specifications for a plant and water-

prepare plans and specifications for a plant and waterworks.

SEATTLE, WASH.—Theron A. Noble, Civil Engr. and Secy., 602 Balley Bldg., Seattle, has filed a water right on Granite Falls for the proposed power plant for the Seattle Power Co., just incorporated, with a capital stock of \$1,230,000. It is proposed to build a plant at the outlet of Cedar River to furnish about 12,000 HP. E. H. Ammidon, Pres.; John D. Rockefelier, Pres. Standard Oil Co., New York, is said to be interested.

PALO ALTO, CAL.—Marshall Tuesdale is reported to have secured subscriptions to over 500 lights to be furnished by the proposed municipal plant. C. E. Moore, Consuit. Engr., Santa Cisra, Csl.

ATOTONILCO, JALISCO, MEX.—An electric light plant is to be installed at Atotonilco.

LEON, GUANAJUATO, MEX.—New electric piants are o be hulit or old ones enlarged in the cities of Leon and Guanajuato; population, 120,000 and 52,000, respectively.

BRIDGES.

SPRINGFIELD, MASS.—A petition will be presented to the legislature to authorize the county commissioners to construct a new bridge over the Connecticut River, at Bridge 5t.; estimated cost, \$250,000.

NEW HAVEN, CONN.—Bids are asked until Feb. 3 for constructing a pile and timber bridge on Willow St., over Mill River; also for grading the approach from View St. to Mechanic St. C. W. Keliy, Cy. Engr.

ALBANY, N. Y.—The New York Central & Hudson River R. R. Co. is preparing plans for the construction of a new riveted Pratt truss bridge at Maiden Lane. The contracts will be let in about 50 days, according to reports, W. Katte, Ch Engr.; W. J. Wilgus, Engr. Maintenance of Way, New York.

BINGHAMTON, N. Y.—A contract has been awarded to the Groton Bridge Co., Groton, N. Y., at \$40,000, for constructing a bridge over the Susquehanna River at Tompkina St.

Tompkins St. BUFFALO, N. Y.—The board of public works received the following bids Jan. 26 for the masonry work of new bridges at Bailey Ave. and Abbott Road, respectively: B. I. Crooker, \$30,600 and \$21,315; Donnely Contracting Co., \$45,442 and \$34,943; Geo. Parks & Sons, \$28,205 and \$20,612; W. F. Boyeson, \$21,475; and \$16,500; Rumrill & Carter, \$28,377 and \$20,301; Dwyer & Huntington, \$28,-216 and \$21,183; Chas. Mosier, \$33,071 and \$25,976.

NIAGARA FALLS, N. Y.—The Nisgara Falls Hydraulic Power & Mfg. Co. will construct a bridge over the csnal at Msin St., to cost \$8,000, for which the city will pay half.

haif.

ROCHESTER, N. Y.—Senator Armstrong has introduced a hill appropriating \$75,000 for constructing a new bridge at West Ave. canal crossing.

WATERPORT, N. Y.—The question of constructing an iron highway bridge, estimated cost, \$12,000, over Oak Orchard Creek ravine, at this place, will be voted upon at the town meeting in March, at Carlton, N. Y.

SAVANNAH, GA.—The Georgia & Alabama Ry. Co. will soon let a contract for the construction of a steel draw bridge over the Savannah River, between this city and Hutchinson's Island; estimated cost, \$250,000. J. S. Will-lams, Pres., Richmond, Va.; C. P. Hammond, Ch. Engr., Savannah

Savannah.

CLEVELAND, O.—A contract was awarded Jan. 26 to the King Bridge Co., at \$4.855, for constructing a temporary span of the Wilson Ave. bridge.

HAMILTON, O.—Bids are asked by the county commissioners until Feb. 24 for constructing the High and Ma'n St. bridge. The contract with the Toledo Bridge Co. has been repealed. L. A. Dillon, County Engr., and the Osborn Engineering Co., are preparing the plans.

SHELBYVILLE, IND.—The county commissioners have awarded a contract to Price Bros., Shelbyville, for the stone work of six bridges.

SHELBYVILLE, IND.—The county commissioners have awarded a contract to Price Bros., Shelbyville, for the stone work of six bridges.

DETROIT, MICH.—The proposed bridge over the Detroit River will consist of one esntillever span 1,250 ft., a 1,000-ft. trestle and 1,000-ft. through girders, carrying three tracks. The location will be determined by U. S. engineers. The site suggested is three-fourths of a mile west of Belle Isle. Height over main channel, about 120 ft. This is a proposed reliway bridge to do away with ferries, and to accommodate any and all railways entering Detroit. The city also contemplates having the piers on the U. S. States side of the river long enough to admit of a low level bridge with swing span to middle ground, to he used for bicentensry purposes. No plans have yet been made.

SAGINAW, MICH.—It is reported that a contract with

been made.

SAGINAW, MICH.—It is reported that a contract will soon be let by the Saginaw Valley Traction Co. for the construction of a new bridge at Bristol St. The old structure is now heing torn down.

QUINCY, ILL.—The council has resolved to construct a stone bridge across Curtis Creek on Eighth St., and a pontoon bridge across the bay at the foot of Broadway.

ROCKFORD, ILL.—Bids are asked until Feb. 20 for constructing a plate girder bridge over Keith creek at Seventh St., as stated in our advertising columns. Edwin Main. Cy. Engr.

MINNEAPOLIS, MINN.—The Great Northern Ry. Co will repair the substructure of the Hennepin Ave viaduct.

ARCADIA, NEB.—Bids are asked until Feb. 9 for con structing an iron bridge 280 ft. long over the Middi-Loup River, according to reports. Vincent Kokes, Count Clk., Ord, Neb.

Loup River, according to reports. Vincent Kokes, County Clk., Ord, Neb.

DAVID CITY, NEB.—Bids are asked until Feb. 6 for constructing iron bridges for the year 1899, according to reports. John J. Graham, County Clk.

HELENA, ARK.—Bids are asked until Feb. 15 for furnishing steel for three bridges, according to reports. Thos. M. Jacks, Cy. Engr.

SENECA, KAN.—Bids are asked until Feb. 15 for constructing two iron bridgea, according to reporta. A. G. Sanborn, County Clk.

MONTICELLO, MO.—Bids are asked by the county commissioners until Feb. 27 for constructing two iron bridges of about 100-ft. span each. Geo. H. Roberts, Comr.

LEXINGTON, OKLA.—The Lexington & Purcell Bridge Co. has been incorporated to construct a bridge over the South Cansalan River, between Lexington and Purcell, Ind. Ter.; capital stock, \$15,000; directors: B. Weltzen-effer, Frank P. Cesse and Nathan Turk, of Lexington; C. G. Jones, of Oklahoma City; Joseph A. Farris, J. F. Sharp and J. W. Hocker, of Purcell, Ind. Ter.

COLORADO SPRINGS, COLO.—A petition has been pre-

COLORADO SPRINGS, COLO.—A petition has been presented to the council for a new bridge over Monument Creek. I. S. Harris, Cy. Clk., informs us that no action has been taken.

WALMER, ONT.—Bida are asked until Feb. 10 for constructing the stone sbutments and steel superstructure of a bridge 70 ft. long over the Thames River, near Cassel, in East Zorra township. Address Thomas Lockart,

BUILDINGS.

LIMERICK, ME.—It is reported that the building occupied by ira Libby & Sons, and adjacent buildings, were destroyed by fire, Jan. 27; loss, about \$25,000.

NEW HAVEN. CONN.—L. W. Robinson, Arch., 324 Exchange Bidg., New Haven, informs us that the following hids were received by the city, Jan. 19, for a heating apparatus for the hospital buildings at Springside Farm: Kiling & Balion, 192 State St., \$705; H. H. Guernsey, 6 Church St., \$800; Sheahan & Grosrk, 285 State St., \$875; Daniel F. Kelly, 161 George St., \$1,083.

BROOKLYN, N. Y.—J. J. Horsn & Co., 225 River St., Troy, N. Y., have been awarded the contract for the installation of a heating and ventilating apparatus in the two new wings and other additions to be built for the Kings County Hospital in this borough.

LYNBROOK (L. I.), N. Y.—A new 3-story frame bicycle

two new wings and other additions to be built for the Kings County Hospital in this borough.

LYNBROOK (L. I.), N. Y.—A new 3-story frame bicycle club house, to cost ahout \$45,000, is to be erected at this place for the Wheelmen's Club. Delhi & Howard, Archs., 1193 Broadway, New York.

NEW YORK, N. Y.—A fire in this city Jan. 29, damaged the 2-story building at 1375 to 1385 Broadway, causing a reported loss of \$30,000.—Plans have been filed by H. M. Weed, 57 West 95th St., tor a 7-story brick flat building st 105th St. and West End Ave., to cost \$140,000. Janes & Leo., Archs., 957 Boulevard; by Cornelia B. Drew, 306 East 123d St., for a 6-story brick tenement huilding at 304 and 306 East 123d St., to cost \$40,000. G. B. Drew, Jr., Arch., 231 West 125th St.; by Jacoh Fischel, 197 Henry St., for a 6-story brick flat and store building at 70 to 74 Pike St., to cost \$50,000. Horenburger & Strauh, Archs.; by Miss Della Stevens, 147 West 96th St., for thirteen 4-story brick dwellings at 142d St. and Convent Ave., to cost \$20,000. G. W. Spitzer, Arch., 156 5th Ave.; by J. M. & W. B. Stewart, 131 Columbus Ave., for a 9-story brick and stone flat building at 84th St. and Riverside Drive, to cost \$180,000. George Keister, Arch., 140 West 34th St.; by Alonzo B. Kight, Arch and Builder, 102 West Slat St., to cost \$114,000; by Ragette & Wolf, 2062 3d Ave., for four 5-story brick flat buildings on 144th St., near 3d Ave., to cost \$30,000. Every Arch., 2577 3d Ave.

to cost \$96,000. Edward Wenz, Arch., 2577 3d Ave.

NEW YORK, N. Y.—Bids are asked by the board of
education, at 585 Brosdwsy, until Feh. 14, for erecting
a new school building at Market and Monroe Sts., to be
known as Public School 177; also until Feb. 6 for heating
and ventilating the extension to Erasmus Hall High
School, Borough of Brooklyn; siso for aiterations, repsirs,
etc., at Public School 7, Borough of Queens, and Public
School 20, Borough of Richmond; also for the sale of oid
lron, etc., in the storehouse, Manhattan.

ROCHESTER, N. Y.-W. Foster Kelly is said to be pre-paring plans for a new public hath house to be built in this city.

this city.

TROY, N. Y.-L. H. Crowley, proprietor of the Mansion House, informs us that at present he is simply getting the approximate cost of a new hotel building to replace the present Mansion House. No plans have yet heen adopted.

heen adopted.

BELLEFONTE, PA.—Andrew Carnegle, of Pittsburg, has offered to give \$100,000 for a library building for the State College at Bellefonte, provided that the state will make an annual appropriation of \$10,000 for its maintenance.

has offered to give \$100,000 for a linrary building for the State College at Bellefonte, provided that the state will make an annual appropriation of \$10,000 for its maintenance.

JOHNSTOWN, PA.—The Waters Bidge and the Toner Library Bidge were destroyed by fire Jan. 25, csusing a reported loss of \$90,000.

PHILADELPHIA, PA.—Bids are asked until Feb. 18 for the construction of a workshop and boiler house for ordnance at the navy yard, League Island, Philadelohia. M. T. Endicott, Ch. of Bureau of Yards and Docks. Washington, D. C.—Bids are asked by the board of education, at 513 Filbert St., until Feb. 7, for the erection of a 15-division school building at 16th and Porter Sts.; the erection of a 15-division school building at 16th and Porter Sts.; the erection of a 15-division school building at 0ntario and G Sts.; an addition to the Wharton School Bidg., 2d Section; the erection of new wings to the Biaine School, 30th and Norris Sts.; for tearing down buildings at Ontario and G Sts.; an addition to the Wharton School Bidg., 2d Section; the erection of new wings to the Biaine School, 30th and Norris Sts.; for tearing down buildings for alterations to the third story of the Martha Washington School Bidg. A. F. Hammond, Secy.—Preliminary plans have been prepared for the proposed hospital buildings for the Woman's Health Protective Association. Joseph M. Husben received by Director of Public Safety Riter for a new fire station at 31st St. and Gray's Ferry Road. Dovle & Doak, \$19,497: Macey, Henderson & Co. \$17,-949; Thomas Gamm. \$22,984; W. R. Dougherty, \$19,700; H. C. Nichols Co., \$19,315; Thomas M. Seeds, Jr., \$16, 882; John R. Wiggins, \$18,700; Phillips, Anne Co., \$22,-512; W. J. Smett, \$22,300; J. A. Davis, \$17,500; H. C. Nichols Co., \$19,315; Thomas M. Seeds, Jr., \$16, 883; Thomas M. Seeds

furniture, etc., for the board of education. Samuel C. Perkins, Pres.

PITTSBURG, PA.—Bids are asked until Feb. 8 for erecting engine house No. 29 at Hamilton and Braddock Aves.

J. O. Brown, Dir. of Public Safety.—Plans are being completed for the new 8-story station to be erected near the Smithfield St. bridge for the Pittsburg & Lake Erie R. R. Co. Work is to be completed before April 1, 1900.—Fire partially destroyed the 6-story building at 918 to 920 Penn Ave., causing a loss of about \$100,000. Two of the largest tenants were Spear & Co., furniture, and the New York Biscuit Co. G. S. Sinien, owner.

WASHINGTON, D. C.—F. B. Pyle, Washington Loan & Trust Bidg., has prepared nians for a new central police station, to cost about \$50,000. A bill will be introduced into Congress saking for the erection of such a structure at E and 12th Sts.—The bill providing for the erection of a new department of justice building, at Pennsylvania Ave. and Lafayette Place, at a cost of \$1,000,000,000, has been passed by the Senate.

BALTIMORE, MD.—Plans are being prepared for a new 11-story addition to the Equitable Bidg., at Fayette and St. Paul Sts., for the Calvert Building and Construction Co. Wm. H. Whitridge, Prea.; J. Evans Sperry, Arch

WILMINGTON, N. C.—The contract will be eb. 20, according to reports, for erecting a new imple for the Masonic Temple Co., to cost about haries McMillsn, Arch. abou

LAFAYETTE, ALA.—Phil Yearger & Co., Atlanta, Ga., and Danville, Iil., have received the contract for erecting the new court house, st \$27,650.

the new court house, at \$27,650.

NEW ORLEANS, LA.—Edwin Marks, Secy. Bd
ministration, informs us that all the bids received
erection of the Wm. T. Richards memorial hospita
ing, Jan. 23, were rejected, as they ranged from
to \$90,000, thus exceeding the appropriation.—Pi
heing prepared by A. C. Bell, Cy. Engr., for the
lice jail building, 108 x 105 ft., to be fireproof thro
HOLLY SPRINGS, MISS.—We are informed
Thomas Hall, recently burned, will be rebuilt as
of about \$25,000. Address Rev. P. G. Sears.
LEXINGTON KY.—We are informed, that the

Thomas Hall, recently burned, will be rehullt at a cost of about \$25,000. Address Rev. P. G. Sears.

LEXINGTON, KY.—We are informed that the following bids were received by the trustees of the Kentucky House of Reform; 11 Cheapside, Lexington, Jan. 17, for the erection of a brick boiler house and manual training building on the State farm; (a) for excavation, (b) stone work (c) cement work, (d) brick work, (e) painting sud glazing, (f) roofing, (g) woodwork, (h) ironwork: Clark & Howard, Lexington (accepted), (a) \$460, (b) \$3.255, (c) \$1,400 (d) \$11,770, (e) \$450, (f) \$1,450, (g) \$5,000, (h) \$2,230, total, \$27,955; J. W. & P. H. Heudricks, Lexington, (a) \$600, (h) \$3,900, (c) \$2,485, (d) \$11,500, (e) \$5,50, (f) \$1,568, (g) \$5,598, (h) \$1,800, total, \$28,046, (g) \$5,814, (h) \$2,484, total, \$29,808; Coyie & Combs, Lexington, (a) \$620, (b) \$3,289, (c) \$1,636, (d) \$11,577, (e) \$1,600, (f) \$1,685, (g) \$8,125, (h) \$2,500, total, \$20,482; Sleath & 20,483, total, \$23,483, total, \$25,000, (a) \$1,000, (h) \$3,290, (c) \$1,400; M. J. Sculley, Lexington, (e) \$1,400; M. J. Sculley, Lexington, (a) \$600, (h) \$3,900; F. Justice & Co., Lexington, (e) \$1,400; M. J. Sculley, Lexington, (a) \$600, (h) \$3,900; F. Justice & Co., Lexington, (e) \$1,400; M. J. Sculley, Lexington, (e) \$1,600, (f) \$1,600; M. J. Sculley, Lexington, (e) \$1,600, (f) \$1,600, (f) \$1,600; M. J. Sculley, Lexington, (e) \$1,600, (f) \$1,60

ELWOOD, IND.—The council has decided to erect a new ity hall bullding, to cost about \$28,000.

ELWOOD, IND.—The council has decided to erect a new city hall building, to cost about \$28,000.

INDIANAPOLIS, IND.—It is reported that plans have been prepared for a new synagogue building for the Henrew Association, to cost \$30,000. Yonnegut & Bohn, Archs., 608 Indiana Trust Bldg.

ANN ARBOR, MICH.—S. W. Millard, Cik Bd of Supervisors, informs us that bids are asked until Feb 18 for erecting a brick addition to the county jail; estimated cost, \$800. Fireproof vaulta in the court house are also proposed. Henry Pipp, Arch., Ann Arbor.

IRONWOOD, MICH.—Bids are asked until Feb 15 for erecting a high school building at Ironwood. A. D. Garner, Dir. of Pub. Schools; Chariton, Gilbert & Demar, Archs., Camp Bldg., Milwaukee, Wis.

ST. PETER, MICH.—Bids are asked until Feb, 20 for constructing a steam piant in the church of the Immaenlate Conception. Rev. Anton Miks, Pastor.

LYONS, ILL.—This township voted, Jan. 21, to authorize the issuance of \$35,000 in bonds for an addition to the high school building.

ALGONA, IA.—Bids are asked until Feb, 11 for the seatents.

all of the rection of an 8-room high school building; also for a team heating plant. C. M. Doxsec, Secy.; Smith & Guterson, Archs., Des Moines, Ia.

MADISON, MINN.—The question of Issuing \$30,000 in bonds for a new court house will probably he voted upon on March 14.

on March 14.

MILWAUKEE, WIS.—Bids are asked by the supervisors of Milwaukee county, until Feb. 11, for remodeling the court house. E. R. Liebert, Arch.

WINFIELD, KAN.—The erection of an additional huilding for the imbecile asylum at Winfield, to cost \$200,000, is projected.

FLANDREAU, S. DAK.—Bids are asked by the depart ment of Indian affairs, Washington, D. C., until Feb. 23 for the construction of one brick school assembly build-ing at the Indian School at Flandreau. W. A. Jones

ing at the Indian School at Flandreau. W. A. Jones Comr.

KANSAS CITY, MO.—Bids are asked by the supervising architect, Washington, D. C., until Feb. 23, for fixing in place the boiler plant, low pressure and exhaust steam heating and mechanical ventilating apparatus, supply ourps and tanks for water supply, etc., and pipe and duct covering for the post office building in this city, as stated in our advertising columns.

ST. LOUIS, MO.—Bids are asked by the board of education, 9th and Locust Sts., until Feb. 11, for heating and Jackson school buildings. B. Ittner, Comr.

SAN ANTONIO, TEX.—Bids are asked until Feb. 9 for the erection of a 5-story iron and terra cotta fireproof huilding for the San Antonio Loan & Trust Co.; estimated eest, about \$200,000, the fireproofing costing about \$5,000 Aifred Giles, Arch., 114 West Houston St., San Antonio PHOENIX, ARIZ.—The following bids were received Jan. 25 for constructing a brick dormitory, and a water sewer system, at the U. S. Indian School at Phoenix, J. B. Sprague, Phoenix, dormitory, \$14,600; Push & Gray, Phoenix, dormitory, \$14,600; Push & Gray, Phoenix, dormitory, \$14,600; Push & Barry, Phoenix, 50-HP. engine, \$13,488; 100-HP. engine, \$13,289; Scoville Plumbing Co. Phoenix, 50-HP. engine, \$13,709.

WATER-WORKS.

WATER-WORKS.

FRANKLIN, MASS.—The property of the Franklin Water Co. has been sold to Jos. G. Ray, Pres., for about \$100,000, according to reports.

WALTHAM, MASS.—L. Brown, Supt. Water-Wks. Dept., informs us that no steps have been taken to improve the works, other than a recommendation from the water department that a higher reservoir will be needed in the near future.

in the near future.

WATERTOWN, MASS.—A transaction has been completed by which the town becomes the owner of the works of the Watertown Water Supply Co. for about \$400,000 about eighteen months ago a committee, consisting of Dr. B. F. Davenport, H. F. Bent, Samuel Walker, C. D. Crawford and W. H. Keith was given full powers by thown to acquire the works, since which time the Metropolitan water has come into use and the plant of the company been abandoned. A town meeting will be held Feb.

2 to consider the question of raising the necessary funds.

WORCESTER, MASS.—The committee is reported as in favor of the construction of a new gate house, etc., for the works, besides the extension of certain mains.

FAIRPORT, CONN.—The Unquowa Water & Light Co.
has been organized, with a capital stock of \$100,000, by
Oliver T. Sherwood, Southport, Conn.; E. W. S. Pickett,
of Fairfield, and others. Mr. Pickett writes us that plans
for works and an electric plant will be prepared at once
after the charter is granted.

ter the charter is granted.

ARCADE, N. Y.-G. N. Cowan, Pres. Cattsraugus & Vyoming Water Supply Co., writea us that Fred. S. atcs., representing the Rensselaer Mfg. Co., Troy, N. r., has secured the contract for gates and hydranta for the proposed works, at about \$1,000; they to be delivered.

red April 1.

CLAYTON, N. Y.—Bids are asked until April 4 for furdishing the materials and for constructing the proposed
torks and sewerage system; estimated cost, \$50,000. Sidtory S. Snell, Engr., Lowville, N. Y.
SOUTHFIELD (S. I.), N. Y.—J. B. Newhall, Gen. Mgr.
rystal Water Co., on Staten Island, 168 Bay St., Edgerystal Water Co., located in Southfield, and
the South Shore Water Co., located in Southfield, and
ock possession Feb. 1. It is proposed to make many
edded improvements to provide for this rapidly growing
istrict.

west oneonta. N. Y.—It is stated that a company is west oneontal to build works for this place. An artesian well will be sunk and a windmill erected. COLUMBUS, N. J.—C. L. Carsiske writes us that efforts are being made to form a stock company to build works, about two-thirds of the stock being subscribed works, about two-thirds of the stock being subscribed. The water supply will be secured from artesian wells.

the water supply will be secured rion artesian webs.

HAMMONTON, N. J.—The Hammonton Water Co., orsanized by Ezra C. Bell, John H. Bell, Merritt W. Pharo,

E. B. Lott and Jos. W. Pharo, of Philadelpbia, has apjiled for a franchise. Capital stock, \$50,000. Alex. H.

hutton, Pres. Council.

plied for a francinse. Statton, Pres. Council.

CANONSBURG, PA.—The Chartiers Valley Water Co., Chartiers, Pa., proposes to extend its mains to this place, Marshalsea and Morganza.

PHILADELPHIA, PA.—Local papers state that the select council has passed the ordinance reported by the water committee, authorizing the director of public safety to advertise for bids for the construction of a new pumping station, with n sedimentation basin and filtration beds, and a daily capacity of 150,000,000 gallons, to be located on the Delaware River, above Lardner's Point.

GOLDSBORO, N. C.—The Goldsboro Water Supply Co. has been incorporated in Maine, with n capital stock of \$200,000, of which \$200 is paid in. Jas. C. Fox, Pres., Portland, Me.; Harry M. Merrill, Portland. The Goldsboro Water Co. bas works in operation built in 1889.

boro Water Co. bas works in operation built in 1889. REIDSVILLE, N. C.—The legislature has granted this town permission to issue \$25,000 in bonds for the proposed works, plans for which were prepared last year by Prof. H. E. Knox, Jr., Charlotte, N. C. A. J. Eilington and J. B. Johnson may be addressed.

ROCKY MOUNT, N. C.—J. C. Brascall, Cy. Clk., writes us that after the general assembly grants the town authority to build works, the question of issuing \$40,000 in bonds will have to be voted upon by the people. Population, 2,500.

nion, 2,500.

TUSKEGEE, ALA.—Bids are asked until Feb. 15 for furnishing the materials and for constructing the works and a light plant, as described in our advertising columns. Alber & Byrne, Engrs., 1821 Second Ave., Birmingham, Ala.; W. W. Thompson, Mayor.

GULFPORT, MISS.—The Gulfport Water Co. has been incorporated, with a capital stock of \$25,000, by S. S. Bullis, Pres.; J. H. Lang, Secy.; Chas. Kohler, Treas., and others.

Bullis, Fres., 18 Lang, and others. CHATTANOGA, TENN.—P. J. Lynch, Secy. Com., writes us that the bill to build municipal works bas passed the council and was, on Jan. 26, presented to the legislature. It is proposed to issue \$\$650,000 in bonds for the works, the question first having to be submitted to a vote of the people. The source of the new water supply is about 63 miles distant, J. J. Brown, Chn. Com.

about 63 miles distant. J. J. Brown, Chn. Com.

BEREA, O.—We are Informed that the water trustees have engaged L. E. Chapin, Cauton, O., to prepare plans for the proposed works. The new supply will be secured from wells. Estimated cost, \$30,000. T. J. Quayle, Mayor; Dr. D. T. Gould, Pres. Bd. Trustees

Mayor; Dr. D. T. Gould, Pres. Bd. Trustees
CLEVELAND, O.—Bids are asked until Feb. 24 for furnishing about 2,200 stop coek boxes, 200 4-ln. and 20
4-ln hydrsnts, and ahout 2,300 ½ to 1-ln. stop cocks,
2.25 ½ to 1-ln. corporation coeks, stop gates, air valves,
multiple connections, etc. Geo. R. Warden, Dir. Pub. Wks.
CLEVELAND, O.—Henry R. Worthington, New York,
submitted the only bid, at \$11,000, for repairing the
Worthington pump at the Division St. pumping station.
MARION, O.—The question of purchasing a 5,000,000galion pump and increasing the water supply are being
considered.

considered.

CLINTON, IND.—The question of constructing works is ching considered, according to reports.

GOSHEN, IND.—H. H. Hallett, Warsaw, Iud., is reported to have been awarded the contract for laying about the miles of new mains.

GRAND RAPIDS, MICH.—City Engineer Ames has co-leted surveys, etc., for securing data for a purer was

LUDINGTON, MICH.—The question of the municipal wnership of the works and electric light plant is being onsidered. Both plants, it is stated, can be built for 70,000.

ownership of the works and electric light plant is being considered. Both plants, it is stated, can be built for \$70,000.

TRAVERSE CITY, MICH.—W. W. Smith, Mayor, writes us that bids for building the new works will probably be asked in the spring or summer. The source of supply will be the east arm of the bay off Lake Michigan. Estimated cost, \$120,000. Geo. W. Rafter, Engr., Rochester, N. Y., H. F. Northrup, Cy. Engr.

WEST BAY CITY, MICH.—The city surveyor has submitted a report and estimates for 3,800 ft. of 48-in. riveted steel pipe, 13,500 ft. of 30-in. Iron pipe, a suction well, etc., for the proposed improvements to the works; estimated cost, \$60,000. Mayor Lind, Aldermen Grant, Whiston and Fox may be addressed.

FRANKLIN, ILL.—The question of building works is being agitated.

JEFERSON, WIS.—Julius Fox, Sunt, Water-Wiss, at

FRANKLIN, ILL.—The question of building works is being agitated.
JEFERSON. WIS.—Julius Fox, Supt. Water-Wks. at Watertown, Wis., is reported as preparing plans for a standpipe, etc., at the county insane asylum.
KENOSHA, WIS.—The committee has recommended that the council install a system of filtration at the works. WEST SUPERIOR, WIS.—W. H. Winslow, Secy, Superior Water, Light & Power Co., writes us that R. S. Weston, 21 Wymsn St., Brockton, Mass., has completed a series of tests on two types of filters, and is now preparing his report. He will confer this week with Allen Hazen, St. Paul Bidg., New York, who is consulting engineer for the company. Although nothing will be decided upon until Mr. Hazen's recommendations are received, it is believed that mechanical filtration will be adopted. W. R. Merriam, Pres.

ATLANTIC, IA.—An election will be held Feb. 2 to wote on the question of municipal works.

BRISTOW, IA .- The question of building works is being

CASTANA, IA .- The question of building works is he ag considered.

WAVERLY, IA.—Bids are asked until Feb. 7 for sinking an artesian well for an increased water supply. D

A. Long, Cir.

CANBY, MINN.—The Mankato Heating & Plumbing Co.,
Msnksto, Minn., has been awarded the contract for building the works for this place at \$6,389. It is probable
that the contract for huilding the tower will also he let
to this company, at \$2,784, as the lowest bidder, E. T.
Webster, Dubuque, Ia., at \$2,600, does not want the
contract for the tower alone.

Webster, Dubuque, Ia., at \$2,600, does not want the contract for the tower alone.

DULUTH, MINN.—Alderman J. H. Crowley writes us that no election will be held Feb. 7 to vote on the question of issuing \$150,000 in bonds for extending the mains.

MINNEAPOLIS, MINN.—Bids are asked until Feb, 10 for furnishing the city with 30 tons of special castings. 30 tons of pig lead, 363 tons of 6-in. east-iron water pipe, 123 tons of 8-in. pipe, 40 tons of 12-in. pipe, 45 hydrants, etc. L. A. Lydriard, Cy. Clk.; G. W. Sublette, Cy. Engr.

OWATONNA, MINN.—M. B. Pratt, Supt. Water-Wks., writes us that the council is considering the question of increasing the water supply. Nothing has yet been decided upon. Population, 6,000.

GIRARD, KAN.—The question of improving the works ard of putting in an additional pump is being considered. Councilman Hicb may be addressed.

FORT MEADE, S. DAK.—Bids are asked until Feb. 18 for sinking an artesian well at Fort Mende. J. T. French, Jr., Acting Ch. Q.-M., Dept. of Dakota, St. Paul, Minn.

MAYVILLE, N. DAK.—The city auditor writes us that the mayor bas been authorized to engage an engineer to prepare plans and specifications for works and nn electric plant.

HASTINGS, NEB.—Bids are asked until Feb. 13 for the content of the

HASTINGS, NEB.—Blds are asked until Feb. 13 for furnishing about 30,000 ft. of 4 and 6-in. cast-iron water pipe and 37 4 to 10-in. gate valves, according to reports. E. A. Francis, Cy. Clk.

E. A. Francis, Cy. Cik.

ST. CHARLES. MO.—The question of granting a new franchise to the St. Charles Water & Heating Co. is heing considered. The present franchise expires about 1901. An increased water supply is wanted.

ST. JOSEPH, MO.—The council is reported to have granted a 20-year franchise for works to Judge R. F. Culver, who represents Eastern capitalists who propose to build works to cost about \$1,000,000. The works must be completed by Dec. 10. A report states that the Seckner Contracting Co., Chicago, has been awarded the contract at about \$800,000.

ST. LOUIS, MO.—Bids are asked until 12 m., Feb. 3, for furnishing a water filtering plant for the Female Hospital; deposit, \$75. Robt. E. McMath, Pres. Bd. Pub. Improvements.

MONTICELLO ARK

Improvements.

MONTICELLO, ARK.—Letter bids are being received by Walter G. Kirkpatrick, Jackson, Miss., for furnishing a half mile of 8-in. pipe, a 500,000-gallon pump, eight hydrants, steel tank and tower.

DENVER, COLO—It is stated that work on the construction of what is known as the Goose Creek dam has been commenced and within a year the Denver Union Water Co. will have acquired another reservoir for the storage of water for use in this city. The site of the dam is at the junction of Goose Creek and the South Park, 13 miles from Buffalo Park on the Colorado & Southern R. R. The height of the dam will be 160 ft. The cost will be about \$500,000.

FLORENCE, COLO.—The Geddes & Seerle Stone Co., Denver, Colo., has been awarded the contract for constructing the proposed works, at \$110,000, as advertised in Engineering News.

In Engineering Newa.

TACOMA, WASH.—Water Commissioner Hacker has filed elaims for water rights on creeks flowing from Maplewood Springs for an increased water supply.

OREGON CITY, ORE.—T. L. Charman, Secy. Comrs., writes us that the board has been empowered to spend about \$40,000 for securing a new water supply from the Clackamas River. three miles north of the present pumping station, in preference to using Willamette River water. Nothing definite will be known on the subject for some months.

DUARTE, CAL.—The West Duarte Water & Develop ment Co. has been incorporated, with a capital stock o \$7.200, of which \$3.000 is paid in, by John Scott, W Chippendale and W. H. Young.

Chippendale and W. H. Young.

SANTA BARBARA, CAL.—It is stated that the council will probably ask for new bids for drilling 500 ft. additional to the water tunnel. The bids opened Jan. 21 ranged from \$5.25 to \$11.75 a ft.

PHOENIX, ARIZ.—This elty defeated the proposition, Inn. 24, to issue \$265,000 ln bonds for new works and a sewerage system, by a vote of 140 for to 199 ngainst. Ernest Abs Hagen, Engr., Los Angeles, Cal.

BERLIN, ONT.—The water commissioners have asked the auperintendent of water-works for a report on the question of an increased water supply.

OSHAWA, ONT.—This place has voted to issue \$110,000 for the proposed works and sewerage aystem, bids for which were received Jan. 5. John Galt, Engr., Ottawa, Ont.; C. French, Chn. Com.

MONTEREY, MEX.—Arrangements are being made by

Ont.; C. French, Chn. Com.

MONTEREY, MEX.—Arrangements are being made by
J. A. Robertson for the immediate construction of the proposed works, to cost about \$1,500,000. Benezette Williams, Engr., 153 La Salle St., Chicago, Ill.; E. L. Brewster & Co., 207 La Salle St., Chicago, are interested.

BILBAO, SPAIN.—Bids sre asked by the Ayuntamiento
until March I for furnishing pumps, engines, boilers, etc.,
for the works at Zorozaera, according to reports.

SEWERAGE.

CAMBRIDGE, MASS.—Local papers state that the question of building new sewers, at a cost of about \$400,000, is being considered.

SALEM, MASS.—The council has voted to extend certain sewers, at a cost of about \$30,000.

WAKEFIELD, MASS.—The question of building the pro-osed system will be considered at a town meeting eb. 8.

WOONSOCKET, R. I.—Bids are asked until March 6 for constructing section No.4 of the system, as described in our advertising columns. F. E. Holden, Geo. S. Read and Philippe Boucher form the board of commissioners.

BRIDGEPORT, CONN.—It is proposed to improve the severs in a number of streets. City Engineer Schoffeld has recommended the construction of storm severs and about 200 manholes; estimated cost, \$60,000. Councilman Osborn, Chn. Com.

BUFFALO, N. Y.—The aldermen have ordered the contruction of 64 to 33-in, brick and 24 to 10-in, pipe sewers

in two streets.

CLAYTON, N. Y.—Bids are asked until April 4 for constructing a system and water-works estimated to cost about \$50,000. Sidney S. Snell, Engr., Lowville, N. Y.

LITTLE FALLS, N. Y.—Geo. W. Van Vranken, Schenectady, N. Y., has been awarded the contract for huilding sewers in the south side, at \$17.870, according to reports. The only other bid was received from Hallman Bros. & Fenton, Little Fails, at \$22,336.

PLATTSBURG, N. Y.—Alderman Kearney is reported as urging the straightening of the output to the question of the heavily the provide for the means to the provide a sewer pipe to the grounds where the Union Carbide Co. is about to erect its factory. The contract to lay water nearly one mile of 6-in. water main and 1½ miles of sewer pipe, to be completed in 45 days.

PLATTSBURG, N. Y.—H. K. Averill, Civil Engr., writes us that at the election in February the people will vete on the question of building certain sewers, etc.

SYRACUSE, N. Y.—Alderman Kearney is reported as urging the straightening of the outlet to Harbor Brook so as to provide for the new sewerage of the southern part of the 9th ward; estimated cost, about \$131,000 R. R. Stuart, Cy. Engr., writes us that a preliminary examination is helng made.

JERSEY CITY, N. J.—Chas. A. Van Keuren. Ch. Engr.

JERSEY CITY, N. J.—Chas. A. Van Keuren, Ch. Engr., is preparing plans for a new trunk sewer in the McAdoo Ave, section. The sewer will empty into Newark Bay.

LONG BRANCH, N. J.—The Long Branch Sewer Co. is preparing to lay a 12-in. submerged sewer pipe 150 ft. into the sewer that is the present outlet. R. C. Adamson, Supt.

Supt.

DUNMORE, PA.—M. S. Knight, Borough Engr., writes us that the borough is contemplating the construction of a system covering an area of about 850 acres and taking about 25 miles of sewer pipe and one mile of hrick sewer. The plans and details of the trunk sewer are already finished. The borough has at present only one district of 66 acres sewered. The bonding of the horough for its proportion of the cost of the sewer is to be voted on at the spring elections. Population, 15,000.

NORFOLK, VA.—W. H. Werling, Secy. Local Bd. Improvement of Brambleton Ward, writes us that bids will soon he asked for constructing the proposed system in Brambleton.

Brambleton.

WINCHESTER, VA.—Robt. L. Gray, Chn. St. Cowrites us that the committee has been instructed by council to ascertain the cost of a system for this cinconstruction. No report has yet been submitted, owing to lack of formation.

CLARKSBURG, W. VA.—C. O. Findlay, Cy. Engr., is reparing plans and estimates for a system. The ques-ion of building will probably be submitted to a vote of the people at the election in April.

CLEVELAND, O.—Bids are asked until Feb. 9 for constructing sewer and water connections in a number of streets. Geo. R. Warden, Dir. Pub. Wks.
FORT WAYNE, IND.—Arrangements are being made by the council for the proposed intercepting sewer, to cost about \$150,000.

about \$150,000.

HOWELL, MICH.—H. E. Riggs, of Riggs & Sherman, 613 The Nashy, Toledo, O., has submitted a report recommending the adoption of the separate system and sewage purification by intermittent filtration alone or in connection with irrigation.

CHICAGO, ILL.—It is proposed to have plans prepared at once for extending the intercepting sewer system to include the district between 73d and 87th Sts. L. E. McGann, Comr. Pub. Wks.

Gann, Comr. Pub. Wks.

OTTUMWA, IA.—City Engineer Brady is reported as preparing plans for sewers for the South Side and West End. Trunk sewers will be built in both districts.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., is preparing plars for sewers for Smith's Villa, to cost about \$3,000.

ST. PAUL, MINN.—L. W. Rundlett, Cy. Engr., has submitted plans for sewers in Hamline, to cost about \$34,800. Plans for other sewers are heing prepared.

WASECA, MINN.—The question of building a system here is being considered, according to reports.

TOPEKA, KAN.—Local papers state that work will soon

TOPEKA, KAN.—Local papers state that work will soon a begun on the proposed north Topeka sewer.

he begun on the proposed north Topeka sewer.

INDEPENDENCE, MO.—The council will soon ask for hids for the construction of the proposed system. Andrew Rosewater, Engr., Bee Bidg., Omahn, Neh.

DENVER, COLO.—Jas. J. Fleetwood, Denver, has heen awarded the contract for constructing the Capitol Hill sewer at \$244,159. A letter has been received by the board of public works from Mr. Fleetwood asking the privilege of withdrawing his hid, as a mistake was made in making it up. The next lowest hid was from the J. M. O'Rourke Construction Co., at \$309,735.

SEATTLE, WASH.—Plans are being prepared by the city engineer for sewers in certain parts of the streets to cost about \$100,000. Bids for the construction of some of the sewers will soon be asked.

GRASS VALLEY, CAL.—Bids are asked until Feb. 14

GRASS VALLEY, CAL.—Bids are asked until Feb. 14 for the purchase of \$40,000 of 7% sewer bonds. W. D Hnrris, Cy. Clk.

tor the purchase of \$40,000 of \$6\tilde{6}\$, sewer bonds. W. D. Harris, Cy. Clk.

OAKLAND, CAL.—The following bids were received by the council Jan. 17 for constructing the Cemetry Greek outlet sewer: Wm. Heafy, \$6,279; Easton & Wilson, \$7,426; Cotton Bross. \$6,281; E. Cavanaugh, \$7,774; J. H. Belsei, \$5,722; W. J. Schmidt, \$6,294; John Geary, \$5,785; A. C. Matting, \$5,107.

PHOENIX, ARIZ.—We are informed that this city, hy a vote of 140 for and 180 against, rejected the proposition Jan. 24 to lasue \$265,000 in bonds for a system and waterworks. Ernest Abs. Hagen, Engr., Los Angeles, Cal.—Percy Scoviels has been awarded the contract, at \$13,760, for constructing sewers and water-works at the U. S. Indian school about 3½ miles from here.

BRIDGEWATER, N. S.—The mayor is urging the construction of a system.

GUELPH, ONT.—A committee has been appointed to vestigate the queation of building a system.

HAMILTON, ONT.—The committee has decided to ask for an appropriation of \$30,000 for sewers, \$20,000 of which will be used for the proposed Birch Ave. sewer.—Bids will soon be asked, it is stated, for the sale of the sludge from the Ferguson Ave. sewage disposal works. City Engineer Barrow has recommended the construction of an inclinerator at the beds, and also the construction of new beds.

GARBAGE DISPOSAL-STREET CLEANING

NEW YORK, N. Y.—Bids are asked until Feb. 8 for leaning the receiving basins in Manhattan and in Brook vn. Jas. Kane, Comr. of Sewers, 265 Broadway, N. Y.

ROCHESTER, N. Y.—The board of health will probably soon ask for new blds for the collection and disposition of the garbage.

tion of the garbage.

CAMDEN, N. J.—The council is considering the question of granting a franchise to B. F. Howland & Co. to operate a plaut to cost about \$25,000.

NORFOLK, VA.—W. H. Werling, Secy. Local Bd. of Bramhleton Ward, writes us that the garbage contract is a small one, covering only one ward, and will be let to local hidders.

NASHVILLE, TENN.—The question of the city's buting a garbage disposal plant is being considered by council.

council. CHICAGO, ILL.—Bids for garbage diaposal for the en-ire city were received Jan. 24 from Patrick Mulcaire and Jenry McDonald at \$428,000 to \$768,000, and from \$540,-00 to \$625,000, according to specifications, respectively. R. B. Mitchell, Pres. Thackery Incineration & Fertilizing Co., San Francisco, hid \$538,025 for the entire city on specification I and \$526,607 on specification 2. Bids were sked on-four specifications for the four districts and on the entire city.

LOS ANGELES, CAL.—Plans for a crematory have been ubmitted by the Merchants and Manufacturers' Associa-

HAMILTON, ONT.—City Engineer Barrow has recom-needed the construction of an incinerating plant at the arbage diaposal plant.

MEXICO, MEX.—Our correspondent informs us that street sprinklers are in great demand in all the principal cities of this republic.

STREETS AND ROADS

DEDHAM, MASS.—Davia Neal, representing the diatrict of Dedham, Norwood and Westwood, will present a petition to the legislature for a road to connect East Dedham and Stouy Brook.

HARTFORD, CONN.—The street eommissioners propose to pave Windsor Ave., between the tunnel and Suffield St. and Gold St., with asphalt, from Main to Weils Sts.

DELMAR, N. Y.—Plans are being prepared by the state engineer for reconstructing 3½ miles of the Delaware Turnpike through this place.

GENEYA, N. Y.—Bids are asked by the board of public

Turnpike through this place.

GENEVA, N. Y.—Bids are asked by the board of public works until Feb. 20 for about 18,000 sq. yda. of brick or asphalt paving, as stated in our advertising columns. Edward Scybolt, Supt.

NEW YORK, N. Y.—Bids are asked by the department of highways, 150 Nassau St., until Feb. 14 for regulating, grading, flagging, constructing sidewalka, etc., on Webster Ave. from Mosholu Parkway to the city line. Jas. P. Keating, Comr.

ROCHESTER N. V.—Bids how.

ceating, Comr.

ROCHESTER, N. Y.—Bids have been received for paying on Bartlett St. with asphalt from Whitmore, Rauber & Vicinus, at \$7.263; Warren-Scharf Asphalt Paving Co. 80.79; Rock Asphalt Pavement Co., \$7.840; Rocheste Vicinite Pavement Co., \$8.223; Charles H. Wiltsie Schrift

UTICA, N. Y.—The county supervisors have awarded contract to the Climax Road Machine Co., Marathon, N., for furnishing a stone cruaher and road huilding out, at about \$3.000.

Y, for furnishing a stone crusher and road huilding outfit, at about \$9.000.

UTICA, N. Y.—Resolutions have been passed by the committee for paving portions of Charlotte St., Kossuth Ave., Seymour Ave., Eagle St. and other streeta. A hearing will be given Feb. 10 to decide on the material. Resolutions for paving certain other streets have been referred to the committee.

LONGPORT, N. J.—Bids are asked by the freeholders of Atlantic county, Mays Landing, N. J., until Feb. 21, for constructing the Longport macadam road from Portland Ave., Ventnor, to 24th St., nt Longport, a distance of about 16,275 ft., as stated in our advertising columns. J. Albertson, Engr., Magnolia, N. J.; Frank A. Souder, Dir., Atlantic City, N. J.—The street and water board has awarded n contract to the New Jersey Mexican Asphalt Co., at about \$12,000, for asphalt paving on Prospect St. SCOTCH PLAINS, N. J.—It is proposed to macadamize Mountain Ave., from Stransbery's corner to the North Plainfield line.

AMBLER, PA.—At the annual election, to be held Feb.

AMBLER, PA.—At the annual election, to be held Feb 21, the question of issuing \$18,000 of bonds for street improvements, etc., will be voted upon.

READING. PA.—Bids are asked by the council until Feb. 8 for the purchase of \$100,000 of paving bonds.

SHAMOKIN, PA.—Shamokin St. will be naved with brick between the Pennsylvania R. R. and Sunbury St. M. C. Fraser, Ch. Burgeas.

BALTIMORE, MD.—The board of estimate has increased the appropriation for paving Pine St. from \$2,200

WASHINGTON, D. C.—Bids are asked by the district commissioners until March 4 for paying B St., northweat, from Ninth St. to 12th St., with brick, as stated in our advertising columns.

from Ninth St. to 12th St., with brick, as stated in our advertising columns.

LYNCHBURG, VA.—The council has awarded a contract to the Pierce & Akers Co. for about 18,500 sq. yds. of rubble stone paving on Madiaon, Park and Grace Sts. ATHENS, GA.—The question of issuing \$100,000 of 4% street improvement bonda will be voted upon Feb. 27, according to reports.

JACKSON, MISS.—The board of aldermen has directed estimates made for paving Capitol St. with brick. Walter G. Kirkpatrick, Cy. Engr.; D. P. Porter, Clk.

LOUISVILLE, KY.—The board of public works has awarded contracts to the Alcatraz Co., at \$19,747, and the Barber Asphalt Co., at \$84,658, for paving certain atreets.

BRIDGEPORT, O.—Bids are asked until March 1 for the purchase of \$70,000 of paving bonds. John A. Faweett, Cy. Clk., Informs us that it is hoped to have the work commenced soon after April 1. Hix & Hoge, Engra, Wheeling, W. Va. eling, W. Va

Wheeling, W. Va.

CLEVELAND, O.—Bids are asked until Feb. 10 for furnishing and laying atone flagging. Geo. R. Warden, Dir.

LAKEWOOD, O.—Improvements have been decided upon by the village authorities to cost about \$1,000,000. It is proposed to construct \$150,000 worth of sewera, with a like amount to be expended on private sewera; the construction of the West End Boulevard, to extend from Lake Erie to Linndale, 120 ft, wide; Clifton Boulevard, south of Lnke Ave., from Highland Ave. to Rocky River; the extension of Lake Ave., from Cook Ave. to Rocky River at Clifton Park; a boulevard along Rocky River on the Rocky River Road, and the widening of West Madison Ave., from 60 to 80 ft. Walter P. Riee, Engr.

NEW PARIS. O.—It is proposed to construct cement

NEW PARIS. O.—It is proposed to construct cement walks. B. F. Kemp, Chn. Com.
ANDERSON, IND.—Bids are asked by the council until Feb. 20 for paving portions of 9th, 10th and 12th Sts.

with brick, asphalt block or creosoted yellow pine block including combined cement walks and gutters. H. W. Rogers, Cy. Engr.

LOGANSPORT, IND.—The council proposes to pave Market St. and Broadway with brick and asphalt.

SEYMOUR, IND.—Bida are asked until Feb. 9 for concrete aidewalks on South Cheatnut St. L. E. Jennings. Cy. Cik.

BATTLE CREEK, MICH.—A petition will be present to the legislature for authority to issue about \$20,000 bonds for paving, according to reports.

DETROIT, MICH.—Steps will soon be taken by the park commission to improve Lafayette Ave. from Griawold St. to the Western Boulevard.

St. to the Western Boulevard.
GRAND RAPIDS, MICH.—It is proposed to grade and
gravel portions of Marion, South Fuller, Lyon, Madison
and Warden Sts. and to pave with asphalt or macadam
on Grand, Elm, Lake, Highland and other avenues.
SAGINAW WEST SIDE, MICH.—The county supervisors are considering the queation of issuing \$200,000 o.
road improvement bonds, according to reports.
CAMBRIDGE CITY, IND.—This place will construct
several thousand feet of cement walks. Dan. E. Petro,
CIk.

several thousand feet of eement walks. Dan. E. Petro, Clk.

CHARLESTON, ILL.—Bida are aaked by the highway commissioners until Feb. 11 for grading and graveling on the Marshall and Springfield Road.

ST. PAUL, MINN.—An ordinance is before the board of public works for eement sidewalks in certain districts.

SPRINGFIELD. MO.—The council has granted the Springfield Traction Co. permission to pave its portion of Boonville Ave., between Pbelps Ave. and the bridge, with brick and granite.

DENVER, COLO.—Bids are asked by the board of public works until Feb. 6 for repairing asphalt paved streets for the year 1859.

OLYMPIA, WASH.—Representative Maxwell, of Pacific county, has prepared a state road bill, providing for a new highway from Stella, Cowlitz county, through Wahkiakum county, to South Bend; appropriation, \$39,600.

WALLOWA, ORE.—Wallowa county has asked the legilature for an appropriation of \$6,000 to improve the road on Wallowa Hill, which is two miles long.

SAN FRANCISCO, CAL.—To complete the chain of boulevards around the city it is proposed to extend the system from Goldeh Gate Park northward along 13th Ave. to connect with Mountain Lake Park, near the Marine liospital, making a driveway from Van Ness Ave. and Presidio Heights.

MANUFACTURING PLANTS.

EASTPORT, ME.—L. D. Clark & Sons, according to reports, will creet a new plant on Sea St., consisting of a 200-ft. wharf and a 2-story building, 150 × 35 ft. Work will begin soon.

LAKEPORT, N. H.-It is reported that J. Boulia & Co will rebuild their mill, which was recently destroyed by

MANCHESTER, N. H.—Reports state that the Arm-rong Mfg. Co. contemplates making extensive improve-

strong Mfg. Co. co ments to its plant.

ments to its plant.

ATTLEBORO, MASS.—Plans have been completed for a new factory for Joseph M. Bates. Karl H. Hyde, Arch.

HYDE PARK, MASS.—The Braiuerd Milling Machine Co., of this place, and the Becker Mfg. Co., Fitchburg, Mass., according to reports, have been organized as the Becker-Brainerd Milling Machine Co., with \$500,000 capital. The Becker plant will be moved to Hyde Park.

WORDSTEP MASS.—Peorts state that C. L. O'Here.

WORCESTER, MASS.—Reports state that C. J. O'Hara and others of this city with E. B. Eastman, Cumberland Mills, Me., have organized the Wachusett Thread Co. with \$50,000 capital and will locate a plant in this city.

PASCOAG, R. I.—Reports state that a new woolen and worsted mill will be located here. A. L. Saylea & Sons and F. L. Sayles & Co., of this place, are said to be interested.

interested.

MIDDLETOWN, CONN.—Plans have been completed for a 2-story brick addition, with a tower 20 × 20 ft., to the Fortland silk factory.

NIAGARA FALLS, N. Y.—The Union Carbide Co. has awarded the contracts for creeting two new brick buildings, each 860 × 75 ft.; the iron work to the Berlin Iron Bridge Co., East Berlin, Conn., the carpenter work to Wentworth & Taylor, and the masonry to R. D. Young.

Wentworth & Taylor, and the masonry to R. D. Young.

OLEAN, N. Y.—A fire, Jan. 22, deatroyed the principal buildings of the Acme Refineries; estimated loas, \$50,000. HOBOKEN, N. J.—The Hoboken Land & Improvement Co. is said to contemplate the erection of a 4-story factory building, 50×100 ft., on Grand St.—Reports atate that a 2-atory and cellar brick wall paper factory, 256×100 ft., will be erected at 15th St. and Park Aveby the Potter Wall Paper Milla, to coat \$50,000. Pollard & Steinman, Archts., 19 Union Square, New York.

McKEESPORT, PA.—Reports atate that the National Tube Works Co. contemplates the enlargement of the Monongahela blast furnace at McKeesport, about March 1, so as to increase its capacity 25 per cent. A. Waldburger, Engr., has prepared plans.

RICHMOND, VA.—We are Informed that the Home Brewing Co. has awarded the contract for erecting its new ice plant to the Vitter Mg. Co., Milwaukee, Wis.

PARKERSBURG, W. VA.—Reports state that the OT

new ice plant to the Vitter Mfg. Co., Milwaukee, Wis. PARKERSBURG. W. VA.—Reports state that the O'l Well Supply Co., Pittsburg, Pa., contemplates the erection of a plant at this place.

ATLANTA, GA.—The location of a large smeiter plant at this eity is projected. Col. J. Edgar Black and J. H. Me-Coy, Denver, Colo., are said to be interested.

CROWLEY, LA.—A fire here, Jan. 19, destroyed the Eagle Rice Mill, owned by J. E. Platte. Estimated loss, \$100,000; insurance, \$15,000.

LAKE CHARLES, LA.—Reports atate that H. B. Milligan and W. D. Stone have made a contract with the Fred W. Wolf Co., 139 Rees St., Chlcago, for a 35-ton refrigerating plant, the buildings to be 50 × 200 ft. They have also applied to the city for an electric light franchise.

TOLEDO, O.-Reports state that Baker Bros. will en-

Inrge their plant.

INDIANAPOLIS. IND.—Love Bros., proprietors of the Indiana Cotton Milla, according to reports, contemplate the enlargement of their plant.

DETROIT, MICH.—The Citizens' Street Ry. Co. 1s said to contemplate erecting an addition to its shops, 150 × 75 ft. on Jefferson Ave.

PORT HURON, MICH.—It is reported that the Junks hipbuilding Co. will probably locate its projected plant a the Bunce farm, about four miles from here.

CHICAGO, ILL.—A fire in this city, Jan. 30, the mahogany yards of J. C. Raynor, at Moreau ton Sts., and the box factory of F. C. Austin loss, \$325,000.

MOLINE, ILL.—It is reported that the Mol will erect a new foundry building, 150×200 put in a 150-HP. plant and two continuous

polas.

KENOSHA, WIS.—Wm. H. Schott, Chicago III., its reported, has petitioned the council for an ordinance hulld and maintain a hot-water heating suppy house in the city, at an estimated cost of \$150,000.

KANSAS CITY, MO.—It is reported that the Weber Gas & Gasoliue Engine Co. has completed plans for the entension of its plant.

GAS PLANTS.

ENTERPRISE, ALA.—Rawls & Rawls, Ent to seeure prices for six iron tanka with a 10,000 gailons oil each.

to seeure prices for six iron tanks with a capacing 10,000 gailons oil each.

ASTORIA (L. I.), N. Y.—The Astoria Light Heat Power Co., recently incorporated, will constrain a linguage plant and also an electric light and power plant is reported that the Consolidated Gas Co. and seven smaller organizations will combine their plants on it side of the East River in the establishment of a seri of storage tanks and abandon their works on Manhat Island. A number of sinalier distributing reserving we be located in various parts of the city and these will supplied through a 20-ft. tunnel running from Woolse Point through Ward's Island to Houh St. Hailem.

bill will be presented to the legislature next week authorize the construction of the proposed funnel. G will also be supplied to Brooklyn and Queens boroug CANTON, O.—The East Ohio Gas Co. has complet the work of laying mains in Canton and is now construing lines between New Philadelphia, Massillon Can and Akron. The work will be completed by Feb. 22. Heat &

MISCELLANEOUS CONTRACTS.

CHEMICAL ENGINE.—Woodhuli, III.—II. F. Simmens informs us that that town may purchase a chemical engine; population, 800.

Witar, ETC.—Shamokawa, Wash.—This place has appointed a committee to estimate the cost of building a wharf 200 × 50 ft., and a warchouse 30 × 60 ft.

DITCH WORK.—New Madrid, Mo.—Bids are asked until Feb. 13 for digging about 75 miles of ditches in New Madrid county. L. C. Phillips, County Cir.

TELEPHONE LINE.—Mexico, Mex.—The federal government will erect a telephone line between the town of Pachuca and Mexico City, about six miles distant.

CANAL WORK.—Mexico, Mex.—Government engineers are preparing plans for building a canal and for cleaning the rivers of the Sotavento District on the Gulf roads.

TELEPHONE WORK.—Savannah, Ga.—W. A. Bisbe, Jacksonville, Fla., has been granted a franchise by the council to construct and operate a telephone system.

TELEPHONE WORK.—Shamokin, Pa.—The Montour & Golumbia Telephone Co. has deelded to construct a limit of connect Shamokin, Sunbury, Northumberland and Catavissa.

POLICE ALARM SYSTEM.—Dedham, Mass.—The council has appointed E. V. Comerais, Chn., and G. G. Darling Secy. of a committee to consider the question of installing a police alarm system.

LEVEE AND DREDGING.—Raywood, Tex.—Bils are asked by the Raywood Rice Canal & Milling Co., Raywood, for two miles of dredging and 15 miles of leves work, according to reporta.

PARKS.—Newark, N. J.—The Twelfth Ward Improvement Association has aubmitted a petition to the park commissioners for a park on the river front between Ferguson and Frederick Sts.

Perguson and Frederick Sts.

DREDGING HARBOR, ETC.—Baltimore, Md.—Bids are asked by the harbor board until Feb. 8 for dredging and removing about 250,000 eu. yds. of material from the harbor and docks. N. H. Hutton, Engr.

TERMINALS AND DOCKS.—Savannah, Ga.—The Georgia & Alabama Ry. Co. proposes to construct new terminals, and docks at Hutchinson's Island, to rost about \$1,000,000. J. S. Williama, Pres., Richmond, Va.

TELEPHONE WORK.—Quakertown, Pa.—The Delaware & Atlantic Telephone Co. proposes to extend its line from this place to Trumbauersville, Pennsburg and East Greenville this apring, according to reports.

BROKEN STONE, CEMENT, ETC.—Fort Hamilton, N.—Bids are asked until March 1 for furnishing brokes stone, cement and aand, as stated in our advertising columns.

York. 'Maj. H. M. Adama, U. S. Engr., Army Bldg., New

York. 'DRY DOCK.—Boaton, Mass.—The Navy Department has received the lowest oid for constructing a dry dock from O'Brien & Sheehan, New York, at \$857,200, and for elec-trical machinery, from the Thresher Electric Co., Dayton, O., at \$149,892.

O., at \$149,892.

DRY DOCK.—Superior, Wis.—The Barnett-Record Co. Minneapolis, Minn., has been awarded a contract by the American Steel Barge Co. for excavating and piling for the new dry dock, to be 606 × 110 × 17 ft., requiring about 65,000 cu. yds. of excavation.

EXTENDING CABLES.—New York, N. Y.—The Safety Insulated Wire & Cable Co., 229 West 28th st., New York submitted the only bid Jan. 25, at \$3,369, for extending the telephone and telegraph cables between Governor's Island and Ellia Island.

TELEPHONE WORK.—Detroit, Mich.—The telephone syndicate, which has purchased the property of the Michigan Telephone Co., is prepared to expend within the next year \$2,000,000 in improving the state service. Hugh McMillan, Treas., Detroit; Chas. J. Gidden, Pres., Chicago, Ili.

eago, III.

BULKHEAD, ETC.—Wolcott, N. Y.—Senator Wilcox of Cayuga county, has presented a bill to the legislature asking for an appropriation of \$80,000 for building building the building and and guardlock at the foot of Seneca Lake to regulate the flow of water into the Seneca River and canal.

canal.

SINKING A SHAFT.—Centralia, Pa.—Bids are asked by the Lehigh Valley Coal Co., Centralia, until Feb. 15 for sinking a shaft about 225 ft. in depth from the surface rock below the cribbing to the roof of the tunnel below at Continental Colliery near Centralia.

W. A. Lathrop.

TELEGRAPH LINE.—Ottawa, Ont.—Reports state the eabinet will consider the advisability of asking liament for an appropriation to build a telegraph lin Dawson, N. W. T., as a federal work. At present government telegraph system extends to Quesnelle, in

District, B. C. From Quesnelle over the old Union route to Telegraph Creek and thence to the distance is about 1,300 miles, estimated cost,

Gas ex-

Gas ghs.

rove-park tween

ls are g and n the

Wilcox,

Western Union route to Telegraph Creek and thence to Dawson the distance is about 1,300 miles, estimated cost, 570,000.

PARK WORK.—Boston, Mass.—Bids are asked by the Metrogolitan Park Commission, 14 Beacou St., until Feb. 19 for surfacing, etc., the speedway section of the Charles River reservation, from Western Ave., to North Harvard St., including 10,000 cu. yds. of grading, 13,000 cu. yds. of section of the Charles River reservation, from Western Ave., to North Harvard St., including 10,000 cu. yds. of grading, 13,000 cu. yds. of of secavation, 25,000 cu. yds. of filling, 100,000 ft. B. M. of imber, 53,300 lin, ft. of iron pipe fence, 3,200 cu. yds. of secavation, 5,000 tons of broken stoue surfacing, 12,700 cu. yds. of loam surfacing, etc. Wm. T. Pierce, Engr.
RIVER WORK.—Buffalo, N. Y.—The board of public works received the following hids Jan. 26 for widening and deepening the Buffalo River at South Buffalo:

Bidder.

No. 1. No. 2. No. 3. No. 4.

Donnelly Contract'g Co.\$155,655 \$108,430 \$129,340.

Brown, Stabell& Criffiths 160,320 121,370 141,1575 \$149,600 Hingston & Woods. ... 168,660 144,812 163,187 174,205 Brown, Stabell& Criffiths 160,320 121,370 141,575 \$149,600 Ingston & Woods. ... 168,660 144,812 163,187 174,205 L. P. & J. A. Smith Co. 117,910 125,760 160,082 170,160 Engling Co. ... 182,467 136,572 159,592 175,785 Christopher Smith ... 204,495 106,770 174,110 207,060 TELEPHONE WORK.—Pittshurg, Pa.—Reports state that representatives of 26 Western Pennsylvania Independent telephone companies held a conference here Jan. 23 with James E. Keelyn, Pres. of the Western Telephone Construction Co., of Chicago, to consider the question of securing an Independent telephone system in Pittsburg in connection with the neighboring Independent conpenies. Among these present were George Kruger, Pres., and C. J. Mayer, Secy., Johnstown Co.; T. J. Shufflin, of the Butler Co., and C. Bollinger, of the Apollo Co. If an agreement is made it is proposed to construct a plant to cost nbout \$1,000,000.

CONTRACT PRICES.

CAST-IRON WATER PIPE.—Buitimore, Md.—Our correspondent informs us that the following hids were received Jan. 11 for furnishing cast-iron water pipe as may be required by the water board during 1859; all bids per ton of 2340 bs., delivered f. o. h., Baltimore; contract awarded Jan. 25 to the National Foundry & Pipe Works; W. L. Kenly, Ch. Engr.:

Special castings.

istory)	Specis1	castings.	
1½-ln.	Bell &	Flanged	
pipe,	spigot,		
Bldder. 1.56	30	40	
tons.	tons.	tons.	Total.
*National Fdry & Pipe Wks1\$18.20	\$39.20	\$54.88	\$23.897
*McNeal Pipe & Fdry Co.2 18.95	39.20	56.00	24,788
Camden (N.J.) Iron Works 38.52	42.33	69.21	25,465
*Addyston Pipe & Steel Co. 22.06	39.20	50.40	28,076
American Pipe & Steel Co.4. 48.77	56.00	78.40	30,097

**Addyston Pipe & Steel Co.*. 48.77 56.00 78.40 30,097

**Bid same price on all pipe. 'Scottsdnie, Pa. 'Burlington, N. J. 'Cincinnati, O. 'Chattanooga, Tenn. The following are the hids of the Camden Iron Works and of the American Pipe & Steel Co., respectively: 1.55 tons of 1½-in. pipe, \$35.61, \$48.77; 1.96 tons, \$2-06, \$22.30; pipe, \$35.61, \$48.77; 1.96 tons, \$2-06, \$22.30; same price for rest of pipe; Camden Iron Works, 6-in., 366.7 tons and 8-in., 13.62 tons, \$19.48; io-in., 375 tons, \$18.92; 12-in. (45.09 tons), 16-in. (59.20 tons), 20-in. (102.08 tons), \$18.64; o0-in. (99.78 tons), 35-in. (139.51 tons), 48-in. (227.46 tons), \$18-84. All the ahove is for bell and spigot, and straight pipe.

WATER-WORKS.—Valisburgh, N. J.—We are Informed that A. Costa, Orange, N. J., was awarded the contract Jan. 23, 1830, for constructing the proposed water-works and for laying pipe at 12 cts. a ft. for 4-in., 13 cts. fer 6-in., and 17 cts. for 8-in. pipe, \$2 a cu. yd. for rock excavation. In our issue of Jan. 19, we stated to whom the contracts for pipe and hydrants were awarded. Eugene A. McMurray, Engr., 22 Clinton St., Newark, N. J.

WATER PIPE.—Boston, Mass.—W. E. Swan, Secy. Water Comrs., writes us that the following bids were received Jan. 25, 1899, for furnishing 5,500 tons of water pipe and special castings, as advertised in Engineering News; contract awarded to Warren Foundry & Machine Co.:

	A ton (2,000 ins.)						
Bidder.		Special					
	For pipe.		Totai.				
Warren Foundry & Machine C	0.\$16.70	\$33.00	\$93,562				
Camden iron Works			93,830				
McNeal Pipe & Foundry Co	16.87	42.00	95,424				
CASTINGS AND BOLTS W	ashington	n. D. C	The fol-				
lowing bids were received by	LieutC	ol, A. M.	Miller.				
U. S. Engr., Jan. 26, 1899, for	furnishi	ng and de	livering				
at the Washington aqueduct to	unnel, a s	supply of	castings				
and bolts, as advertised in En	gineering	News:					

	castings,	20,000
Bldder.	340	each,
	tons.*	cts.
Thompson C. Glii & Co., Philadelphia, Pa.		10.89
Bartlett, Hayward & Co., Baltimore, Md	\$48.00	4.15
Standard Supply & Equipment Co., Phila,	77.72	4.62
Stuart R. Carr & Co., Baltimore, Md	54.85	
Barber & Ross, Washington, D. C	52.19	
Pittsburg (Pa.) iron Works Co	49.98	
Holfinghoff & Lane Fdry Co., Cincinnati	36.40	4.75
A. R. McHenry, Jr., New York, N. Y.	61.60	44.0
W. T. & F. B. Weaver, Washington, D. C.		5.0
The Exeter Machine Works, Pittsburg, Pa.	65.00	7.95
J. B. Kendali, Washington, D. C.	39.42	4.90
Saml J. Cresweil Iron Wks, Philadelphia	47.35	5.25

BRICK CEMENT, ETC.—Washington, D.C.—We are informed that the following hids were received by Lieut.—Col. A. M. Miller, U. S. Engr., Jan. 26, 1839, for furnishing materials for work in regard to increasing the water supply of Washington, the materials to be delivered at the shafts of the Washington aqueduct tunnel, as advertised in Engineering News:

National Mortar Co., 612 F St., Washington	. \$28,550
Birck Co., 1416 F St., Washington	
W. H. Woot & Proceedings 858,650, \$63,450, \$51,1	50, 58,450

W. H. West & Bro. 718 15th St., Washington. 80,000 J. T. Walker Sons, 204 10th St., Washington. 23,000 Lawrenceville Cement Co., 26 Cortlandt St., N. Y. 18,200 The following are the itemized bids: (1) Brick, 5,000,000; (2) cement, 20,000 hils.; (3) sand, 5,000 cu. yds.: National Mortar Co., (2) 99 cts. a hhi.; (3) \$1.75 a cu. yd.; Columbia National Sand Dredging Co., (3) \$1.50 a cu. yd.; Waters & Son, (2) Round Top 88 cts.; Frederick Brick

Works. (1) \$11.40 a 1,000; Potomac Hydraulic Cement Co., (2) Potomac hydraulic, 91 cts.; Jas. H. McGill, (2) Cumberland hydraulic, 82 cts.; Grove Lime & Coal Co., (2) Cumberland and Potomac, 90 cts.; Standard Brick Co., (1) \$11.73, \$12.69, Arch, \$10.23, \$11.60; West & Bro., (1) \$16; Walker Sons, (2) Cumberland and Potomac, \$1.15. Lawrenceville Cement Co., (2) Beach's Rosendale, 91 cts. EMPLACEMENT MATERIALS.—Fishers Island (L. I.), N. Y.—We are Informed that the following bids were received Jan. 23, by Maj. Smith S. Leach, U. S. Engr., New London, Conn., for furnishing materials for 10 and 12-in. gun emplacements at Fishers Island, as advertised in Engineering News:

iamps, June 15 to Sept. 15, and 20 1,200-c. p. arc lights, Sept. 15 to June 15, at \$2,205 a year for five years; 90 32-c. p. incandescent lamps, June 15 to Sept. 15, and 60 32-c. p. lamps, Sept. 15 to June 15, at \$1,620 a year. Kalbach Son & Co.'s bid was condition on Boroughs indemnifying them against any litigation, consequently no bona fide bids according to specifications have been received.

ENGINEERING MATERIAL PRICES.

TRACK MATERIALS— New York—Angle bars, 1.05 cts. to 1.10 cts.; splkes, 1.35 cts. to 1.40 cts.; track holts, hexagonal, 1.80 cts. to 1.85 cts.; square, 1.60 cts. to 1.65 cts.

BIDS RECEIVED AT NEW LONDON, CONN., JAN. 23, 1899, FOR FURNISHING MATERIALS FOR 10 AND 12-INCH GUN EMPLACEMENTS ON FISHERS ISLAND, (L. I.), N. Y.

Large and Small Stone, and Sand.

Bidder.	17,500 cu. yds.	stone.— 350 cu. vds.	Totai.	stone, 9,000 tous.	Location of saud bank.	Sand, 8,000 en. yds.
Caivin Tomkins, New York, N. Y.1	81.28%	\$1.28%	\$22,982			
Saml. E. Bouker, New York, N.Y.2.	1.3824	1.38%	24,704	80.73%		
Eugene S. Belden, Hartford, Conn.				1.09		
Arthur J. Wellington, Boston, Mass.3	1.18	1.18	21,063			
John Beattie, Leete's Isl., Conu	****			1.10		
Aab & Co., Waltham, Mass.4	1,27	1.36	22,701	.79	East Haven, Conn	\$0.79
E. T. Tweedy, New York, N. Y.5	1.45	1.63	25,946			4.4.4
Henry Gardiner, Millstone, Conn.6	1.47*			1.09		
John S. Lane & Son, Meriden, Conn.	1.34	1.34	23,919			
Edw. K. Chamberlin, New York.8	$1.27\frac{1}{2}$	1.27%	22,759	1.60	Hempstead Bay, N.Y.	.971/2
T. A. Scott, New London, Conn					Plum Island, N. Y	.95
Jos. Leopoid, New York, N. Y.8	1.33	1.33	23,741	.95		
C. F. Chaney, New London, Conn.9.	1.80	1.80	32,130	1.40	Fishers Island, N.Y	$1.32\frac{1}{2}$
C. F. Chaney, New London, Conn.9.	1.80					$1.32\frac{1}{2}$

*Defective; did not hid for full stone contract.

Location of quarry: 'Tomkins Cove and Rondont, N.Y.; 'Hudson River, N. Y.; 'Westerly, R.I.; 'E.

Conn.; "Shelton, Conn.; "Milestone, Conn.; 'Guttenberg, N. Y.; 'Clinton Polit, N. Y.; 'Monson, Mass

Lumber, I-Beams, Trolley Tracks, Anchor Bolts, Etc.

	-	umher,	a 1,000	ft. B. A	1.	-l-bea	ms, Tr	olley Tr	acks,An	cnor Bol	IS.
	_	Spruce.		1						Anchor	
	C-Dre	ssed-		Hem-		1-b'ms.	Trol-	Troiley	Trol-	bolts.	
	Both	One		lock.		angls &	lev	track	iev trk	plates	
Bidder.	sides.	side.	Rough.				track.	clips.	bolts	& nuts,	
	50,000	13,200				97.625	12.450	260	& nuta,	13.802	
	ft.	ft.	ft	ft	Total	lhs	lbs.	lbs.	520.		Total.
N. J. F'dry & Mach. Co., New York.						80.0134	80.04%	80.05	\$0.05	80.03%	82,689
Dallett & Co, Philadelphia, Pa.*						.0164				.0512	
Charles Este, Philadelphia, Pa	820.00	819.00	\$19.00	\$14 (10)	\$2,151						
Standard Sup. & Equip. Co., Phlia.	18.94	17.94	17 44	13.43	2 016	.0153			.059	.0294	2,366
Greenile, Wyatt & Co., New York.					2,020				.10	.02%	2,560
C. F. Chaney, New London, Conn.	20.50	18.00	19.75				.031/4		.50	$.02\frac{1}{2}$	3,569
		-2100		*0.00	-,-00	/5	. 0.45 / 19			7.0	

*Bid not considered; dld not hid on entire class.

Doors, Frames and Transoms					
				3.	
, with transoms and frames, 3×6 ft. $\times 7\%$ ins	24. each	\$84.50	\$113.44	\$115.29	\$86.67
Ith frames and without transoms, 3 × 7 ft, × 4 lng	9 14	82.50	92.16	98.96	67.25
ith frames, without transoms, cut for trolley tracks 3 v 7 ft v 1114.	Ing 4 "	79.50	95.30	98.95	67.50
ith frames without transoms, 4 × 7 ft. × 4 lns	9 11	84.50		102.68	
ith frames and transcens 4 . C. t		COURT BY CO.	2 CA 2 CA 2	4 4 7 400	CORP. MICH.

With frames and transoms, 4 × 6 ft. 7% ins. 4, 86.50 121.84 117.39 97.50 With frames and transoms, 6 × 6 ft. 7% ins. 5, 98.50 139.06 159.21 119.50

Total \$3.519 \$4.667 \$4.832 \$3.615

—The Exeter Machine Works, Pittston, Pa. 2.—N. J. Foundry & Machine Co., Havemeyer Hidg., New York. 3.

—Standard Supply & Equipment Co., Philadelphia, Pa. 4.—Greenlie, Wyatt & Co., New York, N. Y.

Specifications call for f. o. b. cars, New London, but bid of Exeter Machine Works is for f. o. b. cars at Pittston.

Sewer Pipe, Mauholes, Strainers, Drain Tile, Etc.
N. J. E. A. Stnndard

0	Foundry	Chatfield	Supply	T. C.	Charles F.
Quantities.	& Machine	Co.,	& Equip-	GIII & Co.,	Chaney,
	Co.,	N. Haven,	ment Co.,	Phlla.,	N. London,
	N. Y.	Conn.	Phlia., Pa.	Pa.	Conn.
4-in. vitrified pipe 360 lin. ft	80.04	80.041/4	\$0.031/4	\$0.04%	\$0.05
6-in. " " 120 " "	.06	.07	.051/2	.0599	.12
8-ln. " "	.081/4	.10	.09	.0949	
10-in. " "	.12	.15	.13	.1324	.00
hends for 4-in. pipe Beach		.15	.12%	.19	.22
1/2 hends for 4-in. plpe	.12	.15	.121/2	.19	.22
Tees for 4-in. pipe 120 "	4811	.20	.18	.21	.25
Double tees for 4-in, pipe 4 "	0.0	.30	.18	.30	.50
Y branches for 4-in. pipe 2 "	.25	.20	.17	.20	.25
6-in. pipe with 4-in. Y branch 1		.30	.20	.30	.40
S-ln, pieces of vitrified pipe, with 4-ln, Ys 2 each		.70	.20	.50	.50
8-in, pieces of vitrified pipe for 8-in, Ys 2 "		.70	.30	.55	.50
10-in. plece of vitrified pipe, with 4-iu, Y 1		.65	.70	.70	1.00
Vitrifled pipe increaser, 6 to 8 ins.		.40	.80	.40	.50
8-in. vitrified anchor bonnets	49	1.25	.45	1.25	1.00
4-in. porous drain tile	.16	.03	.037	.0299	
Iron mauholes with covers 9 each		5.50	5.20	7.49	8.00
5½-in. cast-iron drain strainers 90	0.00	.17	.24	.1097	
	. 13	.16	.49	.1094	.00
Total	8710.27	8299.60	\$301.56	\$306.19	\$356.56

Chougung	A TAKE	es and	u manu	ream.	
			N. J.		T.C.GIII
		F			
Quantities.					
2-in. galvanized pipe	5,300	lin.ft.	80.14	80.121/6	
1½-in. "	512	6.4	.0914	.0974	
%-in. " "	60	9.6	.04	.0377	
		each	.091/9		
2x2x11/2-in, gai.,rmed	40	4.4			
2×2×34-in. galvanized	18		.111/9	.12	.15
11/2-in. galv., reamed.	10				
Elbows: 2-in. galvnzd.	10	6.6			.15
2×11/2-in. gaivnnized.	10	9.6			
11/2-in. galvanized	55		.071/2	.091/4	.12
11/2-in. galv. caps	4	4.9	.06	.05	.04
Couplings:					
2-in. gaiv., right hnd	605		.091/2	.0786	.15
Right & left hand.	10				
1½-in. gaiv. r't hand	66		$.06\frac{1}{4}$.061/4	.15
2-in. special hends	178				
	45	6.6	1.20	1.20	1.40
					.54
%-in. brass cocks	18	44	.15	.861/4	.65
Total			\$1,155	\$1,215	\$1,452
	Quantities. 2-in. galvanized plpe? 1½-in. 34-in. Tees: 1½-in. gal·nzed 2×2×3½-in. galvanized 1½-in. galv. reamed. Elbows: 2-in. galvanized 1½-in. galv. reamed. Elbows: 2-in. galvanized 1½-in. galvanized 1½-in. galv. caps. Couplings: 2-in. galv. right had Right & left hand. 1½-in. galv. rit hand 2-in. special hends. 1½-in. 1½-in. 1½-in. 1½-in. 1½-in. For 1½-in. For 1½-in. plpe*. %-in. brass cocks.	Quantities. 2-in. galvanized plpe. 5,300 1½-in. 512 ¾-in. 60 Tees: 1½-in. galvaned 6 2×2×1½-in. gal.,rmed 40 1½-in. galv., reamed. 10 1½-in. galv., reamed. 10 2×1½-in. galvnized 10 2×1½-in. galvnized. 10 2×1½-in. galvnized. 55 1½-in. galv. caps. 4 Couplings: 2-in. galv. 4 Couplings: 2-in. galv. 66 2-in. special hends. 178 1½-in. galv. 7 thand 66 2-in. special hends. 178 1½-in. 179	Quantities. 2-in. galvanized pipe. 5,300 lin.ft. 1½-in. 512 3¼-in. 60 Tees: 1½-in. galvanized 2×2×3¼-in. galvanized 1½-in. galv. ramed. 10 1½-in. galv. ramed. 10 1½-in. galv. ramed. 10 1½-in. galvanized. 4 Couplings: 2-in. galv. right hnd 65 Right & left hand. 10 1½-in. galv. right hand. 665 2-in. special hends. 178 1½-in. galv. 58 1½-in. galv. 58 1½-in. 58 1½-in. 58 1½-in. 58 1½-in. 58 1½-in. 58 1½-in. 19ipe ⁸ . 58 18 3%-in. brass cocks. 18	N. J. Fdy & M. Co., N. Y. Fdy & M. Co., N. Y. 2-in. galvanized plpe. 5,300 lin.ft. \$0.14 1½-in. 512 .09½ 3¼-in. 60 .0.4½ .2√2×¼-in. gai.rmed 60 60.0 .0.4½ .2√2×¼-in. gai.rmed 40 .18 .2√2×¾-in. gaiv.rmed 40 .18 .1½-in. gaiv.rmed 10 .10½ .2	Quantities. Quantities. Quantities. Co., Tweedy. N. Y. N. Y. 1½-In. " " 512 " 60½ 6057 1½-In. " " 60 " 64 6057 1½-In. galvanized 16 each69½ 10½ 1½-In. galvanized 18 " 11½-1. 12 1½-In. galvanized 10 " 13½ 12 1½-In. galvanized 10 " 13½ 1.2 1½-In. galvanized 10 " 12½ 1.4 1½-In. galvanized 10 " 12½ 1.4 1½-In. galvanized 10 " 12½ 1.5 1½-In. galvanized 10 " 12½ 1.5 1½-In. galvanized 55 " 607½ 1.5½ 1½-In. galvanized 55 " 607½ 605½ 1½-In. galvanized 55 " 607½

*With Indicator.

ELECTRIC LIGHTING.—Sea Isie City, N. J.—Jas. T. Chapman, Cik., informs us that the following hids were received Jan. 23, 1859, for electric lighting, as advertised in Engineering News: Sea Isle City Electric Light, Power & Water Co., Sea Isle City, N. J., 75 50-c. p. lucandreent lights for virtually same price as heretofore, viz., \$2,500; Weisbach Street Lighting Co., Philadelphia, 40 lamps, posts, etc., for \$30 a year for each lamp and care of same; Kalhach Son & Co., Ocean City, N. J., 30 1,200-c. p. are

Chicago—Angle bars, 1.15 to 1.25 cts.; spikes, 1.55 cta. to 1.60 cts.; track boits, hexagonal, 1.90 cts. to 2.00 cts.; square, 1.80 cts. to 1.90 cts.

RAILS, STEEL—
New York, new \$19.00 to \$20.00.
Chicago, new, \$20.00 to \$22.00; old iron, \$13.00 to \$13.50; steel, \$10.50 to \$11.00.
Pittshurg, new, \$19.00 to \$20.00; old iron, \$14.25; old steel, \$10.25 to \$10.75.

steel, \$10.25 to \$10.75.

STRUCTURAL STEEL—

New York—Beams, 1.40 cts. to 1.50 cts.; channels, 1.35 cts. to 1.45 cts.; tees, 1.45 cts. to 1.50 cts.; angles, 1.30 cts. to 1.50 cts.; rlvets, 1.75 to 1.85 cts.

Chicago—Beams, 1.45 cts. to 1.60 cts.; channels, 1.45 cts. to 1.60 cts.; tees, 1.50 cts. to 1.60 cts.; angles, 1.55 cts. pittsburg—Beams, 1.30 cts. to 1.40 cts.; channels, 1.30 cts. to 1.40 cts.; channels,

cts. to 1.40 cts.; tees, 1.25 cts.; angles, 1.20 cts.

PLATES AND SHEETS—

New York—Universal mill plates, 1.30 cts. to 1.35 cts.; tank, 1.40 cts. to 1.45 cts.; shell, 1.45 cts. to 1.50 cts.; flange, 1.70 cts. to 1.75 cts.; flrebox, 2.25 to 250 cts.

Chleago—Universal mill plates, 1.40 cts. to 1.50 cts.; tank, 1.45 cts. to 1.50 cts.; shell, 1.70 cts. to 1.80 cts.; flange, 1.30 cts. to 1.50 cts.; flrebox, 1.75 cts. to 4.00 cts.; sheets, 2.25 and upwards.

Pittsburg Universal mill plates, 1.20 cts. to 1.25 cts.; tank, 1.40 cts. to 1.45 cts.; shell, 1.45 cts. to 1.50 cts.; flange, 1.50 cts. to 1.55 cts.; flange, 1.50 cts. to 1.55 cts.; flange, 1.50 cts. to 1.55 cts. flange, 1.50 cts. to 1.55 cts.

MERCHANT STEEL—

Machinery per ib., 1.60 cts. to 1.70 ets.

IRON—

IRON—
Pig Iron;
New York—No. 1, \$11.75 to \$12.00; No. 2, \$11.00 to \$11.25.

Chicago—No. 1, \$12.00 to \$12.50; No. 2, \$11.50 to \$12.00. \$12.00. Pittsburg—Ne. 1, \$11.10 to \$11.80; No. 2, \$10.60 to \$10.75. ar iron:

r lron: dew York, common, 1.10 ets. to 1.12 ets.; refined, 1.15 cts. to 1.20 cts.

Sheets: Common, American per lb., 2.15 cts. to 2.75 ets. Russia, per ib., 10½ cts. to 11.00 cts.

Hussia, per 10., 10½ cts. to 11.00 cts.

LUMBER—

New York:

Hemlock timber, 20 ft. and under, per M, \$12.00 to \$12.50.

Pling, Eastern spruce, 35 to 40 ft., 30 to 40% i2-ln. butts, 4.25 cts.

Spruce, special cargoes, per M, \$15.00 to \$17.50. Yellow pine, random cargoes, \$15.50 to \$17.00.

North Carolina pine, \$2.25 to \$2.40 advance over Norfolk rates.

San Francisco:

San Francisco:
Oregon pine, per M, \$15.50 to \$17.50.
Redwood, per M, \$18.20 to \$20.00.
Redwood, per M, \$18.20 to \$20.00.
Redwood tank stock, up to 10 ft., \$24.00 to \$25.00.
GENERAL MATERIALS—
Lead, New York, 4.45 cts. to 4.50 cts.
Naiis, Pittsburg, 1.40 cts.
Solder, per ib., 5.65 ets. to 5.75 cts.
Solder, per ib., 5.65 ets. to 5.75 cts.
Copper ligota, 12.55 cts. to 15.00 cts.
Granite, rough, New York, cu, ft., 40 cts. to 50 cts.
Chio freestone, New York, cu, ft., 40 cts. to 50 cts.
Ohlo freestone, New York, cu, ft., 55 cts. to 90 cts.
Slate, Penn., block, per aquare, \$4.00 to \$5.00.
White lead, American, per ib., 5% cts. to 6 cts.
Lime. common state, per bbl., 75 cts.

INDUSTRIAL NOTES.

THE PENNSYLVANIA STEEL CO., Steelton, Pa., has removed its New York office from 2 Wail St. to the Empire Building, 71 Broadway.

THE UNIVERSAL CONSTRUCTION CO., Chicago, has the contract for the construction of the 80 × 442-ft. steel main factory building for the Kingman Plow Co. at Avery-

THE WARREN ELECTRIC MFG. CO., Sandusky, O., is reported to have an order for one 7,000 and two 3,500-ight dynamos for the new electric light plant for Armour & Co., Chicago.

THE FEDERAL STEEL CO., Chicago, is reported to have purchased the Puritan Coke Works, Latrobe, Pa., for \$1,500,000. The purchase includes 900 acres of coal land and 500 eoke ovens.

land and 500 coke ovens.

ROGERS, BROWN & CO., Chicago, have bought the plant of the Iroquois Furnsec Co., at 35th St., South Chicago, for about \$500,000, according to report. Mr. Wm. A. Rogers, Buffalo, N. Y., is the head of the firm.

THE GREGER ENGINEERING CO., formerly at 315 North Broad St., Philadelphia, has changed its name to the Greger Mig. Co., and has removed its offices to Washington Ave., 22d and Alter Sts., Philadelphia.

THE TERRY & TRENCH CONSTRUCTION CO., contractors, has removed its office from 202 West 118th St. to Room 1404, Bowling Green Building, 11 Broadway, New York.

New York.

THE PURINGTON PAVING BRICK CO., Galesburg,
111., at its annual meeting, Jan. 26, elected the following
officers: Pres. and Treas., D. V. Purington; Vice-Pres.
and Gen. Mgr., W. S. Purington, and Secy., Chas. H.
Chamberlain.

Chamberlain.

THE PITTSBURG REDUCTION CO., Pittsburg, is reported to have an order for a large quantity of aluminum for a new telegraph and telephone line to be erected in Manila, Philippine Islands, from Saale & Co., Yokohama, the Japan agents of the company.

THE AMERICAN STEEL CAR CO., St. Louis, Mo., is reported to have an order for 50 cars from the West End Ry. Co., Boston, Mass., and orders for 25 cars for the Metropolitan Traction Co., and 25 cars for the Capitol Traction Co., both of Washington, D. C.

THE PRESSED STEEL CAR CO., Pittsburg, is reported to have an order for 1,000 steel cars of 100,000 lbs. capacity, each, at a total cost of \$1,000,000, for the Union Pacifie R. R. An order has also been received from Thos. Reynolds, London, England, for 300 cars for South Africa, requiring \$40,000 tons of steel.

rica, requiring 40,000 tons of steel.

THE STANLEY ELECTRIC MFG. CO., Pittsfield, Mass., is reported to have a contract for an electrical plant in Columbus, Ga., consisting of three 1,200 HP, dynamos of the S. K. C. system and a complete switchboard. The plant is to supply heat, light and power for the entirecity, it is stated, and the cost will be about \$100,000.

THE JEFFREY MFG. CO., Columbus, O., has recently begun the manufacture of standard elevator buckets and spiral conveyors and reports a good trade. Its facilities enable it to supply high grade material at prices which secure a large trade for this class of machinery. The company has lately issued a new catalogue which will be sent upon application.

THE FULTON ENGINEERING & SHIPBULLDING

sent upon application.

THE FULTON ENGINEERING & SHIPBUILDING
Co., San Francisco, Cal., has an order, according to report, for a 1,500,000-gailou pumping plant and two air compressors from Alexander & Baldwin, Honolulu, Hawaii; a Corliss steam compressor for the Kennedy mines; a 28-in. air compressor for the Marc Island Navy Yard, Californis; a duplex compressor for the Banner mine, oreville, Cal., and a large rock crusher for the New Bown mine, Tutle HOWN, ISLICTING, & CONVEYING, MACHING.

Oreville, Cal., and a large rock crusher for the New Bown mine, Tuolumne county, Califorula.

THE BROWN HOISTING & CONVEYING MACHINE Co., Cleveland, O., through its New York office, 26 Cortisend: St., has secured a contract from the Navy Department for coal handling machinery for the coaling station at Mare Island Navy Yard, California, which is the sixth coaling station for the United States Navy to be equipped with machinery of the company's manufacture and constitutes all the stations so far awarded. The company has also the contract for a 100-ton steel floating crane, weighing over 1,000 tons, for the Brooklyn Navy Yard, New York.

THE AULTMAN CO., Canton, O., informs us that it has recently taken up the manufacture of the Priestman Safety Oil Engine, an English internal combustion motor, which has had a considerable success abroad. It is stated that this motor when driving a dynamo will light eight 16 c. p lamps an hour with a consumption of 1 pint of kerosene [f attached to an ice machine, the same quantity of fuci will produce about 200 his of ice. If attached to a holst, one ton can be lifted 400 feet; and if used for pumping, 1,000 galions of water can be raised 96 ft. in each case with the same expenditure of fuel.

THE CASE MFG. CO., Columbus, O., reports that it is busy in its Crane Department, and has among other orders ou hand the following: A 60-ton trolley traveling crane, Portsmouth, O.; a 30-ton electric traveling crane, St. Louis, Mo.; a 15-ton electric traveling crane, Pittsburg, Pa., and a 10-ton hand power traveler, Sanderson & Potter, New York. It has also recently shipped a 15-ton crane to the Toledo Machine & Tool Co., Toledo, O., and has also furnished several wrecking cranes to various railways.

railways.

JACKSON & MOSS, Des Moines, la., civil and constructing engineers, report that during the past year they have constructed water-works for Tripp, S. Dak.; Hartley, New Sharon, Alden, Buffalo Center, Pella and Shekl Rock, Iowa; and Elmore, Minn. They also have contracts at Keota and Osage, lowa, which they were unable to complete in 1898, and are now preparing plans and specifications for works at Blocktou and Allisou, lowa, and Stanberry, Mo. In connection with all these plants, except the one at Osage, Iowa, steel water-towers are being built and designed by the firm.

THE AMERICAN STEEL WILLS COMMENTATION.

signed by the firm.

THE AMERICAN STEEL WIRE CO., New York, has cleeted the following officers: Chn., J. W. Gates; Pres., John Lamhert; First Vice-Pres., Wm. Edenborn; Second Vice-Pres., L. Eliwood; Third Vice-Pres., S. H. Chisholm; Fourth Vice-Pres., P. W. Moen; Treas., W. A. Green; Asst. Treas., F. L. Watson, Chicago; Asst. Treas., T. P. Adler, New York; Secy., C. S. Roberts; Asst. Secy., O. Owen, Chicago; Asst. Secy., F. E. Patterson, New York; Executive Com., I. L. Eliwood, Chn.; J. W. Gates, Wm. Edenborn; Gen. Counsel, Seward, Guthrie & Steele; Gen. Mgr., Wm. P. Palmer; Asst. Gen. Mgr., A. M. Crane; Gen. Sales Agt., Chas. T. Boynton; Aud., C. A. Honecker, and Asst. Aud., Chas. A. Vogt.

TIEE KENNEY CO. 72 to 74 Trinity Piace. New York.

and Asst. Aud., Chas. A. Vogt.

THE KENNEY CO., 72 to 74 Trinity Place, New York, has placed its "Flushometer" aboard a number of U. S. Government vessels, among them the U. S. transport "Grant," that sailed Jan. 19 with troops for Maulia, Philippine Islands. It is equipped with 63 "flushometers," and dispenses with the individual overhead tanks for flushing the closets, which are undesirable for use sboard ship on account of the rolling of the vessel, and as the snpply is both irregular and unreliable. With the Kenuey system there is one supply tank in the hold and the water is pumped from this at an even pressure cach closet, which is thus flushed without noise and without wetting the floer.

out wetting the floor.

NEW COMPANIES.—Co-operative Telephone Co., Co-lumbus, O.; \$50,000; to construct and operate a telephone system in Columbus, J. S. McLean, Airrd E. Lee, William M. Payne, G. D. Owen, O. B. Summers and others. Hinton & Southeastern Telephone Co., Hinton, W. Va.; \$50,000; A. J. Skagg, of Ballard; James H. Miller, J. J. Swope, C. H. Skaggs, and W. H. Bonde, of Hiluton. Electropathic Co., Buffislo, N. Y.; \$1,000, all paid in to manufacture and sell electrical goods; Aifred C. Schew, Heien Z. M. Rodgers, Eihert Rodgers.

Peninsular Engineering Co., Detroit, Mich.; \$5,000; consulting and contracting engineers, etc.; A. A. Cowles, J. C. Danziger, F. A. Goodrich, Wm. Gerhauser, and Wm. Gerhauser.

Long Island Hygela Ice Co., New York; \$80,000, with \$2,000 paid in: to manufacture, by any consulting and contracting engineers.

J. C. Danziger, F. A. Goodrich, will Gerhauser, and will Gerhauser.

Long Island Hygela Ice Co., New York; \$80,000, with \$2,000 paid in; to manufacture Ice; G. H. Smith, H. L. Smith, M. F. Kastner, H. C. Johnson, T. Stein, R. Paul, L. C. L. Smith, A. Flanagan, New York.

Mark Iron & Steel Co., Plano, Ill.; \$100,000; to manufacture railway equipments; J. R. Stewart, U. D. Stewart, J. D. Harris.

Automatic Alarm Bell & Sign Co., Philadelphia, Pa.; \$100,000, commencing with \$100; to manufacture and seli automatic sign bells and devices, mechanical or otherwise; E. A. Tennis, Thompsontown, Pa., L. A. Conwell, W. L. Conwell, J. Slaughter, Geo. E. Coolridge, Philadelphia.

W. L. Conwell, J. Slaughter, Geo. B. Cooking.
delphia.
Permanoid Co., New York; \$1,000,000, with \$50 paid
in; to manufacture and produce pigments, eements, etc..
Charles O. Maas, J. Owen Moore, Edward E. Imhoof,
Purdy Van Vilet, Thomas R. Duncan, of New York.
Syracuse Railroad Construction Co., Syracuse, N. Y.;
\$25,000; to construct and equip railways; Clifford D.
Beebe, William F. Rafferty and Thomas H. Mather, of

Beehe, William F. Rafferty and Thomas H. Mather, of Syracuse.
United States Steering Gear & Vaive Co., 239 Washington St., Jersey City, N. J.; \$100,000; to manufacture machinery for controlling and regulating movements of vessels, elevators, etc.; Wm. H. Speer, George H. Doremus, Wm. H. Speer, Jr., 9 Park St., Jersey City; Clarence Linn, 230 Bergen Ave., Jersey City. New York & West Virginia Coal Co., 16 Montgomery St., Jersey City, N. J.; \$500,000; to mine coal in West Virginia; Chas. J. Baugh, Arbuckle Bldg., Brooklyn, N. Y.; Almon C. Brown, 11 Broadway, New York; Norman L. Rowe, 76 Montgomery St., Jersey City; Ernest D. Morris, Clarksburg, W. Va.
Audubon & Kimbleton Telephone Co., Audubon, Ia.; \$900; Pede Lykke.
Henry County Telephone Co., New London, Ia.; \$1,000; E. C. Stevenson.

1900: Pede Lykke.

Henry County Telephone Co., New London, M.,

2. C. Stevenson.

Excelsior Compressor Co., 238 Washington St., Newark,

J.; \$100,000; to manufacture air compressing machines; William Meeske, William Hill, Irvin G. Hooper,

Philip Cramer.

Milwaukee, Wis.; \$2,550,000;

County and Valley mines, with

Excelsior Compressor Co., 238 Washington St., Newark, N. J.; \$100,000; to manufacture air compressing machines; William Meeske, William Hill, Irvin G. Hooper, Pbilip Cramer.

Wyandotte Mining Co., Milwaukee, Wis.; \$2,550,000; to work the Wyandotte and Canba and Valley mines, with a combined area of 1,040 acres.

Michigan Iron Worker, Grand Rapids, Mich.; \$50,000, commencing with \$30,000; to manufacture and deal in machinery, tools and mill supplies; W. T. Powers, F. A. Richards, F. C. Powers, Fred W. Powers, C. H. Gleason, A. L. Banks, J. W. Spooner, C. W. G. Everhart.

Bernstein Electric Mfg. Co., Portland, Me.; \$100,000, commencing with \$50; to manufacture electrical apparatus; A. W. Putnam, Salem, Mass., E. S. Gardner, Wollaston, Mass.; C. F. Langley, South Boston, Mass.; J. T. Knapp, Roxbury, Mass.; C. H. Tolman, Portland, Me.

Otter Mining & Milling Co., San Francisco, Cal.; \$500,000, commencing with \$25,000; A. B. Benlson, Oakiand; J. J. Meyers, R. N. Braves, Albert Cerf, H. W. Mathews. Roebling Construction Co., Trenton, N. J.; \$250,000; to Construct buildings and structures, and necessary material therefor; Chas. G. Roebling, Fred W. Roebling, Frank O. Briggs, Trenton; Jas. W. Hinkley, Poughkeepsle, N. Y.; Frank H. Croker, New York; \$1,000, commencing with \$100; to manufacture dynamos, motors, etc.; W. E. Sheffield, Brooklyn, N.Y.; P. K. Green, Jersey City, N.J.; W. S. MaeClymont, Bensonburst, N. Y.; A. G. Haven, Fairview, N. J.; H. H. Lamberson, New York, Hillsdale Fire Brick & Clay Co., Chicago, Hi.; \$6,000, all pald ln; W. C. Van Blarcum, St. Louls, Mo.; A. M. Young, Brooklyn, N.Y.; J. M. Humbird and D. D. Dickey, Pittsburg, Pa.; Hugh H. Hamil, Trenton.

Cambridge Telephone Co., Cambridge, iii. \$900, to operate telephone system; J. A. Kirkland, G. A. Vawter, and James Pollock.
Eclipse Foundry Co., Belleville, III.; \$6,000, all paid in.
H. Longfelder, L. Meyer, B. Taylor.
New England Fire Proofing Co., Portland, Me.; \$1,000,000, commencing with \$35,000; A. J. Dearborn, C. C. Blanchard, Lynn, Mass.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its special enorms are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadel, phia and Washington are usually in the New York postoffice by midnight; all Brooklyn and New York city papers by 3 o'clock—in ampie time for the first delivery Thursday morning. The entire edition, including foreign cop-les, is in the mail soon after 6 o'clock Thursday morn. les, is in the mail soon arter to belock anuraday morning. If your paper is not received promptly we advise that you make a complaint to your local post-office offi-

STONE HEADS.

ESSEX COUNTY PARK COMMISSION— PROPOSALS FOR THE CONSTRUCTION OF STONE HEADS TO SUBWAYS NOS. 1 AND 2, UNDER THE DRIVEWAY, AT BRANCH BROOK PARK, NEWARK, N. J.

Sealed proposals for the above work, dorsed with the above title, also with the name of the person or persons making the same, and the date of presentation, will be received at the office of the Essex County Park Commission, 800 Broad Street, Newark, N. J., on Monday the 20th day of February, 1899. The Commission will be in session from 3 to 3:30 p. m., of that date, to receive the proposals which will not be received at any other time or place.

Bidders are required to state in their proposais, under oath, their names and places of residence; the names of all persons interested with them therein, and if no other person be so interested they shail distinctly state the

in addition to the bid on Milford granite bidders will be allowed to submit a bid for ail the eut-stone work, above the line marked X on the drawings, using buff Indians lime stone, buff Minnesota sand stone, buff Ohlo sand stone, or any sound light-colored stone

sand stone, or any sound light-colored stone that is free from iron.

A sample of the stone on which the alternate bid is based must be submitted with the bid, and no alternate bid will be considered unless accompanied by a bid for the work so specified with Milford granite.

The amount of security required is ten thousand dollars.

The right is expressly reserved by the Essex County Park Commission to reject any or all bids which it may deem prejudicial to the public interests.

The prices are to cover the furnishing of all the necessary materials and isbor, and the performance of all the work as set forth in the specifications and form of agreement, and the completion of the entire work.

The Architects of the Commission, Carrere & Hastings, wiii give any necessary explana tions or instructions to bidders at their office,

No. 28 East 41st Street, New York.
Plans and specifications can be seen at the Commission's office, as above, and copies of the specifications and proposals may be obtained by application at that office. THE ESSEX COUNTY PARK COMMISSION.

A. cHURCH, Secretary.

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA. Washington, January 28, 1849.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, March 4, 1859, for paving B street, northwest, from 9th to 12th streets, with vitrified blocks. Form of proposal, specifications and all necessary information can be obtained at the office of the Engineer Commissioner, D. C. JOHN B. WIGHT, JOHN W. ROSS, LANSING H. BEACH, Commissioners, D. C. 5-1t

RAILWAY GRADING.

We will sub-iet to reliable contractors certain portions of forty miles of grading, averaging about 20,000 cubic yards per mile; mostly car and wheel scraper, with some steam shovel work, between Tara and Carnarvon, on the Fort Dodge and Omsha ex-tension of the Illinois Central R. R. Profile can be seen and further information obtained upon applicatios to

C. E. LOSS & CO., Contractors, Puliman Bldg., Chlcago

Contract Work Should Always be Advertised in a Paper Read by Contractors.

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