

**Port Arthur (Ont.) Civic Railway.**—Plans are being prepared by the city engineer for the erection of two new bridges over the McIntyre River, one for each track.

**Johnstown (Pa.) Traction Company.**—Plans are being contemplated by the Johnstown Traction Company for the construction of extensions in the Seventh and Seventeenth Wards and in Woodvale.

**Philadelphia, Pa.**—Sealed proposals will be received by the Department of City Transit, Philadelphia, William S. Twining, director, for the following work appurtenant to the Frankford Elevated Railway: Contract No. 524—Steel frame work and railings, concrete floors and parapets, side inclosures, roofs, drain gutters and spouts for ten station platforms and connecting passages or foot bridges between station platforms and station buildings at Allegheny Avenue, Tioga Street, Torreisdale Avenue, Ruan-Church Streets and Orthodox-Margaret Streets.

**Philadelphia & West Chester Traction Company, Upper Darby, Pa.**—This company will construct an extension of its Collingdale line to the Sharon Hill section.

**Columbia Railway, Gas & Electric Company, Columbia, S. C.**—A double-track line from the limits of Columbia to Camp Jackson has been completed by the Columbia Railway, Gas & Electric Company and operation will be begun at once.

**Northern Texas Traction Company, Fort Worth, Tex.**—A double-track extension of the Arlington Heights line will be built by the Northern Texas Traction Company to Camp Bowie, the United States army training camp established near Fort Worth.

**Port Arthur (Tex.) Traction Company.**—It is reported that the Port Arthur Traction Company will construct an additional line in Port Arthur, paralleling its present main line through the city at a distance of 6 blocks.

**Salt Lake, Garfield & Western Railway, Salt Lake City, Utah.**—Work on the electrification of the Salt Lake, Garfield & Western Railway and the extension of its lines to Garfield is now under way. It is stated that a contract has been entered into between the company and the Utah Light & Traction Company providing for the use of the street car tracks by Saltair trains. The road is being engineered and equipment designed by H. A. Strauss of Chicago.

**Monongahela Valley Traction Company, Fairmont, W. Va.**—Plans are being made by this company for the construction of an extension from Bridgeport to Rosemont, Flemington, Galloway, Wendell and Simpson to reach the coal mining towns.

### SHOPS AND BUILDINGS

**Southern Pacific Company, San Francisco, Cal.**—This company contemplates the construction of a one-story brick passenger station at Victoria, at a cost of about \$25,000.

**Sioux City (Iowa) Service Company.**—This company will construct an 80-ft. x 244-ft. addition to its carhouse at Greenville at a cost of about \$12,000.

**United Railways & Electric Company, Baltimore, Md.**—This company plans the construction of a new waiting station at Overlea.

**Youngstown & Suburban Electric Railway, Youngstown, Ohio.**—It is reported that this company contemplates the construction of a new station and power station at Columbiana.

**Tulsa (Okla.) Street Railway.**—This company plans to construct an addition to its carhouse in Tulsa to take care of new equipment expected this fall.

**Tacoma (Wash.) Municipal Railway.**—L. A. Nicholson, city engineer, has been instructed by the City Council to prepare plans and specifications for the construction of a new carhouse for the Tacoma Municipal Railway on the tideflats.

### POWER HOUSES AND SUBSTATIONS

**Fort Smith Light & Traction Company, Fort Smith, Ark.**—The erection of a new power house to cost about \$250,000, either on the site of the present power house on the Arkansas River or on Poteau River in Le Flore County, is under consideration by the Fort Smith Light & Traction Company. The present plans provide for a plant of 5000 hp.

capacity. The present plant has an output of 4200 hp., which it is proposed to enlarge and improve so that the two plants will have a generating capacity of 10,000 hp.

**Georgia Railway & Power Company, Atlanta, Ga.**—A petition has been presented to the Railroad Commission of Georgia by the Georgia Railway & Power Company for permission to issue \$2,500,000 in bonds, the proceeds to be used for the installation of the sixth unit in the Tallulah Falls power station, the construction of a new reservoir on the Tallulah River, above Rabun Lake, to be known as the Burton reservoir, and the construction of a new power station, 2 miles below the Tallulah Falls plant, near the junction of the Tallulah and Chattoega Rivers, at the point where they form the Tuglo River.

**Chicago, Milwaukee & St. Paul Railway, Chicago, Ill.**—According to recent reports the Chicago, Milwaukee & St. Paul Railway Company will begin work the latter part of August on the construction of a \$25,000 substation on the tideflats, in connection with the electrification of its lines in Tacoma and in the State of Washington.

**Chicago & Joliet Electric Railway, Joliet, Ill.**—On account of the necessity to take current from the Public Service Company's new steam plant at Joliet, at the generating pressure of 12,000 volts instead of at 2300 volts as at present, this company is installing transformers and lightning protection for this service at Joliet. An underground cable connection between the railway substation and the Public Service Company's new substation under construction at the corner of Jackson and Ottawa Streets will also be provided. In planning for the changes necessary, it was decided to construct and equip an entirely new railway substation at Joliet and to install an automatic substation at Dellwood Park between Joliet and Lockport. The latter station will enable the company to release 5000 lb. of aluminum cable, and the sale of this and the equipment in the present Joliet substation, at the prevailing prices, will pay a large part of the cost of the new equipment. The new Joliet substation will be located at the northwest corner of St. Louis and Osgood Streets, adjoining the carhouse and shops of the company. Two General Electric Company 750-kw. synchronous converters and six 260-kva., 13,200/445-volt transformers with the necessary switchboard equipment for the Joliet station, and one 300-kw. converter together with three 100-kva. transformers and automatic control equipment for the Dellwood station have been purchased. It is expected to have these stations in operation by Jan. 1, 1918. In order to release the aluminum cable at once, a 250-kw. motor-generator set for temporary use has been installed at Dellwood Park.

**St. Joseph Railway, Light, Heat & Power Company, St. Joseph, Mo.**—One of the provisions which are being made by the St. Joseph Railway, Light, Heat & Power Company to increase the steaming capacity of the boilers for the coming winter, is to install larger stokers. Two of the 440-hp., 21 x 10 tube, B. & W. boilers are equipped with five-retort Tayler stokers. An extra retort is being added to each of these stokers, which will increase the steaming capacity approximately 20 per cent. The Tayler "power dump" feature is being provided as well as additional draft capacity. Two of the 440-hp. boilers are equipped with Green chain stokers, containing approximately 90 sq. ft. of grate area each. These stokers are to be replaced by wider and longer ones of the same make, containing 136 sq. ft. of grate area. This change will add approximately 50 per cent to the steaming capacity of the two boilers.

**International Railway, Buffalo, N. Y.**—A new substation about 75 ft. x 90 ft. will be built by the International Railway on North Division Street.

**Toledo Railways & Light Company, Toledo, Ohio.**—Henry L. Doherty & Company report that about 500 men are at work on the construction of the great power plant of the Toledo Railways & Light Company on the Maumee River, near the center of the city. It is expected that the first unit will be in operation by Dec. 1.

**Tacoma (Wash.) Municipal Railway.**—L. A. Nicholson, city engineer, has been instructed by the City Council to prepare plans and specifications immediately for the construction of a concrete substation for the Tacoma Municipal Railway on the tideflats.