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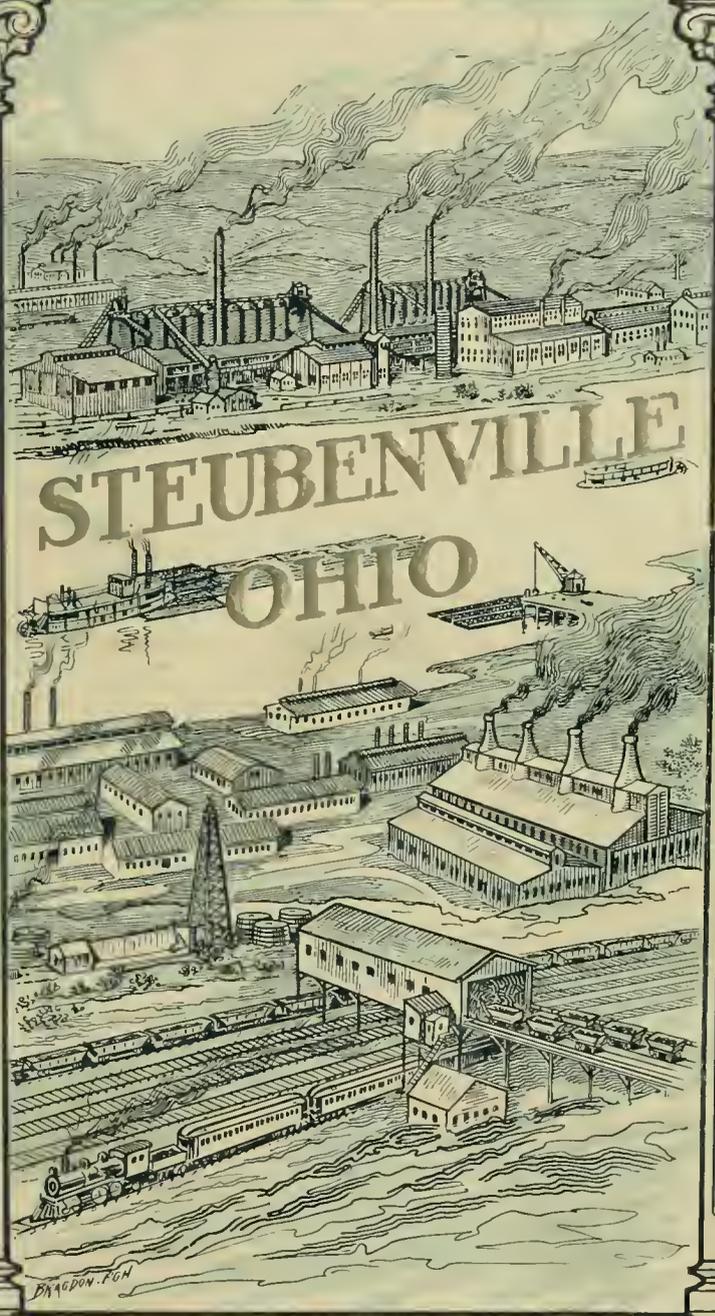
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IRON
STEEL
TIN
PAPER
GLASS
CHINA
CLAY
PRODUCTS



STEUBENVILLE OHIO

DRAGDON. PCH

OIL
GAS

THE INDUSTRIAL CENTER
OF THE OHIO VALLEY

COAL



STEUBENVILLE'S ILLUSTRIOUS SON
EDWIN M. STANTON

War Secretary to President Lincoln During the War of the Rebellion
Steubenville will Dedicate a Bronze Statue of Heroic Size of Stanton During Home
Coming Week, Commencing September 3, 1911



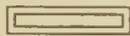
HALF MOON FARM NEAR STEUBENVILLE, OHIO.



THE CITY OF STEUBENVILLE, OHIO.

Steubenville Ohio

"The Heart of the Workshop of the World"



FAMOUS FOR
Iron, Steel, Tin, Glass, Pottery, Paper, Coal,
Oil, Gas and Fire Clay



Printed and Published by

The Steubenville Germania Press

under the auspices of

The Chamber of Commerce



Steubenville Ohio

BY A. D. MACMILLAN

Secretary Chamber of Commerce

The activity and complexity of life in our modern cities has a charm for the keen American mind. Whether we live in them or not we take an active interest in our great centers of population. By far the most of us cannot travel from place to place and learn from personal observation their different characteristics, but we do satisfy our inquisitiveness from the pages of books, papers, magazines and the ever-present postal card. Even the formerly slighted advertising page is now delightful, and we come to know with almost personal familiarity the quaint piers where fishing schooners are lying in an eastern seaport, the ceaseless hurry of thousands along the most famous street in our country that one looks down upon as he leans against the rail of the elevated station overhanging the street, the trans-continental express in the Rockies high above the nucleus of a future city in the irrigated plains below, the cotton covered levees of southern towns, or the great steel mills of the iron region where the lurid glare of the flames and molten metal at night makes the high furnaces canopied with smoke clouds stand out fiery red against the surrounding darkness.

Taking the train west from Pittsburg, one crosses the "Pan Handle" section of West Virginia and soon comes out on the Ohio River, forty-three miles from the "Smoky City." As the train passes over the bridge, high above the stream, the passenger sees Steubenville, Ohio, along a broad shell of the original river bed to the south with the wooded bluffs surrounding it like an amphitheatre. Something in the solidity of its appearance betokens the soundness and strength of its commerce. Situated in the upper Ohio Valley, in the midst of that great industrial region between Wheeling and Pittsburg, it is well called, "The Heart of the Workshop of the World." Not only does its location on the river afford it many advantages in a commercial way, but also lends a beauty to its surroundings that rivals that along any of our great waterways. Boarding the night train in New York or Chicago, one can eat breakfast the next morning in Steubenville. The cool winds of the Great Lakes or the sunny fields of the South are likewise within easy reach.

In the industrial boom following the war with Spain a number of manufacturing concerns seeking locations were attracted by the many natural advantages of Steubenville. Their convictions were soon shown in material form and with their advent Steubenville began to grow. For years her population had remained about 14,500, but now in the space of a few years it increased by half again, and today is a hustling city of 25,000. As Steubenville advanced she brought prosperity and growth to the whole region of which she is the natural center. New industries came into the "Steubenville District" and two new towns rose entire beside the river where formerly were only gardens and

hay fields. Within eight miles of the city there are now between forty and fifty thousand people, most of whom can reach the shopping district within half an hour any time during the day.

With this increase within and around the city it developed in every way; new railroads were built, interurban trolley lines up and down the river brought the city in close touch with adjacent sections of the country, with a service that is cheap and accommodating, bridges crossed the river and the city crept up over the bluffs and spread out in two new beautiful suburbs.

The building record during these years has kept steady pace with the increase in population and wealth. Real estate has been a profitable investment, the value of new lots and old property going up together. On LaBelle View, the hilltop suburb, 225 residences, worth \$800,000, have been erected, and on Pleasant Heights, its neighbor, over 150 houses have gone up. Paved streets and sidewalks, trolley cars, electric lights, well kept lawns and modern homes surprise the former resident who knew this region a few years ago as simply a farm. Over \$7,000,000 have been invested and 1500 houses erected within the corporate limits in the last ten years.

Schools and Churches

While this record for private houses was being made, the city added many new public buildings to a list that was already substantial. Increases in population are most quickly reflected in the attendance of the public schools, and with characteristic zeal the city prepared to take care of its many children. As the hilltop suburbs grew, school houses were located at central positions, and in the south end the Lincoln school was erected to answer the demand created by the rapid populating of that section, when the LaBelle Iron Works moved into the neighborhood and the trolley system was extended through it.

The whole school system appropriately converges in the modern Wells High School Building on the corner of North Fourth and North Streets, a well-chosen site, since it is the geographical and population center of the city. In the arrangement and equipment of the building everything was made as up-to-date as the most modern experience could suggest. The building is simple and dignified in architecture and substantial in appearance, being made of light red pressed brick faced with Bedford stone. From the broad halls within one steps into light, airy study and recitation rooms, handsome offices and ventilated locker rooms. All the study rooms are flooded with light from large windows located entirely at the left of the pupils, and as the building has a northern exposure the light is steady but never glaring. Thermostats, fan-driven, fresh air ventilation, sanitary drinking fountains, individual lockers, fire equipment, rest room and gymnasium, speak of the splendid care that is taken of the health of the students. The large auditorium on the main floor seats 700 people and is furnished with a stage from which many entertainments are given each season. The cost of the building was over \$100,000.00.

Among the churches Steubenville numbers some of her most imposing structures. Of the twenty-five, nine have been built in the last decade and practically every one is a modern building owned clear of debt by its parish. The thronged streets on Sunday morning have often been remarked upon by visitors and testify to the sound religious character of the community.

Young Men's Christian Association

Supplementing the churches with its practical work, the Y. M. C. A. is one of the most prominent institutions in the city. Though long established, the Y. M. C. A. was without its own home until the

spring of 1909. The bequest of a prominent merchant started the movement to secure a fully equipped building which would be a "character factory" for men and boys and an ornament to Steubenville. In the early part of 1907 the business men took hold of the project and in a whirlwind campaign of 10 days raised \$110,000.00 and assured the success of the building. Today it stands on North Fourth Street, within a block of the center of the city, a handsome four story building of light brick and terra cotta. The front portion of the main floor is one large open room, used as a lobby, reading room, social room and office. On the right side are the check room, office and the restaurant furnished in mission style, where meals are served at a moderate price. On the left is the broad stairway leading to the upper floors, and the billiard room; in the rear is the gymnasium and the physical director's office. The basement is occupied by the Boys Department in front, locker rooms, bowling alleys of the very best make, Turkish bath, shower baths and a swimming tank, 16 x 50 feet and from 3 $\frac{1}{4}$ to 7 $\frac{1}{2}$ feet in depth, lined with porcelain brick and tile. The second floor contains five class rooms, the Business Men's Club and the main auditorium. A dumb waiter connects a small pantry off the auditorium with the kitchen, which makes it convenient to serve light refreshments at the close of entertainments in the hall. The two stories above are used as dormitories. There are thirty-four rooms, each furnished with a desk, desk chair and lamp, chiffonier, rocker, wardrobe and half bed. Shower baths in the spacious toilet rooms on each floor have helped to make the apartments such ideal rooming quarters that for months the Secretary has held a waiting list of applicants. There are at present five hundred members who keep the gymnasium, educational classes and other departments in a state of constant activity. Perhaps the most attractive feature of all is the grill room which is crowded three times a day with strangers and townspeople, who find here an unusual opportunity to become acquainted. A welcome is extended to all and the visitor in the city especially is invited to avail himself of the comforts of this public institution in which the city justly takes great pride.

Steubenville Business College

Another institution of recognized merit and one that has met with unusual success is the Steubenville Business College. Professor J. T. Thompson, the principal, is an educator and school manager of wide experience and known ability, and has successfully taught hundreds of students who are now filling responsible and lucrative positions in all parts of the country.

In the way of furniture, equipment, instructors and courses of study, the school ranks among the first in the country, and has supplied all our mills, factories, banks, insurance offices, law offices, rail-ways and mercantile houses with well trained, efficient office help. The various departments are elegantly equipped with all modern business office appliances. The courses of study are broad and practical, and include all the important subjects of a thorough business training. The splendid equipment, together with the high character of the instruction given, place the Steubenville Business College in the front rank of commercial schools.

National Exchange Bank Building

It was natural that a city with the industrial activity of Steubenville should have a great demand for offices in the business section. The National Exchange Bank, whose increasing business called for enlarged quarters, determined to put up a five story modern office building. It was finished in 1904 at a cost of \$175,000.00. Mosaic

floors, hardwood finish, elevators, mail chutes and electric lights go to make it a luxurious home for a large body of the city's business and professional men.

Carnegie Library

One of the interesting bits of Steubenville's history is the fact that Andrew Carnegie started his career as a telegraph operator in this place. It was quite appropriate therefore, that he should present the city with a library. The building, which cost \$62,000, stands on the corner of Slack and South Fourth Streets and greatly enhances the beauty of that section of the city. Over 12,000 volumes are at the disposal of the public and the circulation of over 66,000 volumes annually shows that the liberal education it offers is thoroughly appreciated.

Gill Hospital

In 1901, Mr. J. J. Gill, one of the partners in the Acme Glass Co., erected a hospital on one of his lots in the north end of the city and equipped it with operating room and all first class requirements at a cost of \$50,000.00. Twenty-one patients can be cared for regularly, with provision for more if necessary. In an industrial city like Steubenville especially, such an institution is an adjunct of vital importance and has many times over paid for itself in preserving for future usefulness the city's most valuable natural resource, her citizens.

New Railroad Station and Postoffice

Sixty-three trains run out of Steubenville every day carrying over 4,000 passengers. The largest part of this immense traffic is handled by the "Pan Handle" Division of the Pennsylvania Railroad, and in recognition of this fact the Company has drawn up plans and started the construction of a handsome commodious station that is to cost \$150,000.00 and be one of the most attractive as well as useful public buildings in the city.

Another new public building that is to be erected shortly is the post office. Congress has appropriated \$120,000.00 for this purpose and soon Steubenville people can point with pride to one more beautiful structure. The annual postal receipts of \$54,353.00 show that this office is well within the self-sustaining class.

Lodges and Societies

The various lodges and societies, of which there are thirty-five, add largely to the social life of the place and enable any man to enjoy the advantages offered by the different orders. All are quartered in spacious lodge rooms in the business section, but it is expected that soon the Elks will build a hall on North Fourth Street, beyond the Y. M. C. A. Among these societies the Country Club holds a prominent and unique place. The Club was established in 1908 by a group of men that early saw the splendid social advantage such an institution offered. It quickly rose in favor and numbers today two hundred members on its roll. The site selected is along the river north of the city, the clubhouse resting on a hillside from which a view is afforded down one of the most beautiful stretches of the Ohio Valley. An eighteen hole golf course is laid out over the eighty-two acres in the property, while two tennis courts of the most improved construction give ample opportunity for sport. Supper is served on the open porch every evening during the season and on Friday nights especially the members gather in large numbers for the weekly dance.

The Chamber of Commerce

Another organization, which has been especially valuable to the city, is the Chamber of Commerce. This body was incorporated in

the spring of 1908 by a small group of earnest men who were alive to the importance of promoting the civic and commercial interests of their city. A banquet was held at which the movement was placed before all the leading business men and immediately the membership was increased to two hundred, a permanent secretary secured and the work of boosting Steubenville put upon a business basis. That work is of a varied nature and includes within its scope the charities of the city, civic improvements, legislation, municipal affairs, taxation, transportation, new industries, and increased trade from the surrounding territory. The abundance of the natural advantages of this region have been recognized by many business men and has led them to locate plants here. The Chamber of Commerce is taking an active interest in getting more industries and is always ready to co-operate with anyone wishing information with such an end in view. Whether or not this more serious reason may be a factor in an inquiry, the Chamber of Commerce is always glad to make anyone more acquainted with the "Steubenville District" and extends a special invitation to all strangers and visitors in the city to visit its offices on the fourth floor of the National Exchange Bank Building. Steubenville is already the center of a great industrial region and the Chamber of Commerce is determined to make her more than ever "The Heart of The Workshop of The World."

City Water Works

Three miles up the river, at Alikanna, are the City Water Works. Though erected in 1895, they are still regarded among the finest along the Ohio River, and being built with an eye for the future, with full confidence in the growth of this region, they are today fully competent to supply a city twice the size of the present one. The pumping station is a fine stone building surrounded by a small park on the bank far above high water. Two lines of intake pipes extend 800 feet out into the water, ending in a rocky crevasse, where many natural springs in the river bed feed them with pure water.

The high pressure reservoir is on one of the bluffs 330 feet perpendicular height above the station. It is lined with concrete and combined with the low pressure reservoir, has a total storage capacity of 7,200,000 gallons. As the daily pumping capacity of the station is 6,000,000 gallons and the daily consumption is 2,500,000 gallons, Steubenville is in no danger of a water famine.

The pressure varies from forty pounds in the low system to one hundred and thirty-eight in the high. There are over three hundred fire hydrants, from any one of which five streams of water can be thrown at the same time over any building in the city. The total valuation of the Works is about \$400,000, the yearly revenue approximates \$60,000.00 and the expenditures are \$42,000.00, so that the Works not only pay for themselves but also maintain the sinking fund, provide for pipe extensions and furnish free water for all the city buildings, schools, churches, fires and street sprinkling.

Fire Department

The city is justly proud of a fire department that rivals that in any place twice its size. The citizens have learned that if they wish to see the apparatus go by on one of its spectacular runs they must be on the street immediately. The department has sixty volunteers and thirteen regular firemen that are noted for their neat appearance and enthusiasm. Their annual rabbit dinners in the fall and turtle soup suppers in the spring are looked forward to by the whole town as among the most delightful of the regular social functions of the city. Two of the fire stations are downtown and one is on each

of the two hilltop suburbs. The "Reliance" Company is housed in a specially fine station, beautiful architecturally and designed after the latest models in the large cities. As explained before, the high pressure water system eliminates the necessity of fire engines. During the twelve months ending June 30th, 1910, there were ninety-four fires causing damages to the amount of \$4,600.00, a remarkable record, which shows the highest efficiency in the fire fighting force.

Financial Institutions

The financial institutions of a place always reflect its real prosperity and commercial stability. Steubenville has three national, two private and three foreign banks, besides four building and loan associations. Their total capital amounts to \$1,356,520.06, total surplus \$629,736.75, and total assets \$8,817,077 62. The plants already here are examples of what Steubenville men have done with capital furnished largely by these institutions, and with such backing added to the abundance of natural resources, new industries of worth will find here most congenial soil in which to grow.

City Finances

The city's financial statement for 1909 showed receipts of \$397,823.55 and expenditures of \$383,069.00, leaving a balance of \$14,754.55. The total bonded debt equals \$504,591.67, while the cash valuation of the sinking fund for debt redemption amounts to \$60,191.44. In this debt is included Water Works Bonds, \$165,000.00, Garbage Disposal Bonds, \$11,000.00, Sewer Bonds, \$99,000.00, and Improvement Bonds, \$65,550.00. There are in the city twenty-one miles of sewers, twenty-four miles of paved roads, and three hundred arc lights, for which the city pays the lighting company \$63.00 per light a year. Most of these improvements have come in the last few years, but now that the demands of the city along these lines have been nearly met, the present expense will be steadily reduced.

Newspapers

The life of the city and vicinity finds expression in two daily and four weekly newspapers. The Herald-Star lays claim to being the pioneer paper in Ohio, having been founded in 1806. Today it is making another big stride forward in its steady progress by erecting its own building on North Fourth street. This is to be three stories high, having in front on the main floor the business office of the paper and the store room and ticket office of the theatre which will occupy the centre of the building. The theatre is to be a model of its kind, built with an inclined floor and a gallery where 750 people can enjoy the entertainments. The second floor is to contain the editorial offices, and the third will be given up to apartments. The rear will be devoted to the mechanical department.

In the midst of a strong Republican community, the daily Steubenville Gazette, the leading Democratic paper in the county, finds plenty of material to employ the recognized abilities of its editorial staff. Strong in its convictions and always fair in a fight, this paper is rightly held in high regard not only in its own locality, but among party circles throughout the state.

The Steubenville Germania is a weekly newspaper printed in the German language. It is owned and printed by Joseph Niederhuber, the proprietor of the Germania Press, on North Court street.

Il Telegraphio Marconi is a weekly Italian newspaper owned and edited by V. A. Morelli, and printed by the Germania Press. With the coming of the steel and tin mills and other large employers of Italian labor, the field for this paper has been constantly widened.

Union Cemetery

Early in the history of the city the different churches joined in purchasing a tract of land west of the city to be used as a cemetery. The 250 acres included within its area extend from West Market street in the middle of the city to Lincoln Avenue on the south. It contains six miles of some of the best macadamized roads in the state which were built by the cemetery force. Seventy-five acres are covered by woods, lying largely in a wooded ravine, through which run many walks and roads which are always open to the public, making one of the finest natural parks in any city in the country.

Parks

When the hill top suburbs were developed by the land company, twenty acres of land along the bluffs were deeded to the city for park purposes. Roads and walks have been laid out and small trees planted over a large section, making it a beautiful spot from which to get the fresh breezes blowing down the valley and to look out over the city and across to the foot-hills of West Virginia.

Two miles up the river the Steubenville and East Liverpool Railway and Light Company has laid out Stanton Park, named after the great War Secretary of Lincoln's cabinet, who was born and lived in Steubenville. In a thickly wooded valley ponds and pavilions have been made, supplemented by all modern amusements, and a dancing casino, from which one looks across the Ohio to the famous "Half Moon Farm" lying in a great bend of the river. Here crowds of people from the city find refreshment in the summer evenings or enjoy the dancing parties which are social features of the season. The birthplace and boyhood home of William Dean Howells, the famous author, is within a short distance of the park.

Climate and Drainage

One of the greatest factors in determining a man's state of mind is the weather. Its vagaries are reflected in our moods and general conversation until its psychological effect is more than mere disgust at an inconvenient downpour of rain or joy at clear skies on the 4th of July. The South is noted for its warm hospitality, the West for its breezy exuberance, and some parts of the North are at times accused of a conservatism that is akin to their chilly fogs, but here along the Ohio, geographically the "Hub of the Country," even if not mentally the "Hub of the Universe," the steady even climate, which lacks the extremes of any sections but combines them all into one comfortable average, offers a common meeting point where one can hear the nasal "Great gosh all hemlock," of the rural North, greet the musically drawled "right smaht" of the South, while the West and the East swap horse-pistols for gold bonds. Officially, observations show the following for a period of six years:

AVERAGE TEMPERATURE.

January	31.60	July	75.60
February	32.60	August	73.80
March	39.30	September	67.60
April	55	October	53.40
May	64.10	November	41.40
June	73.60	December	32.60

Annual mean for six years, 54.

With an elevation of 630 feet above sea level for the river at low water in front of the city, 715 feet at Court House and 1200 feet on the hill-tops, the whole city slopes gently towards the river, affording perfect natural drainage. In addition, the gravel formation under the city and the 21 miles of combined storm and sanitary sewers make a

complete system of drainage. The annual mean rainfall of 41.76 inches causes a frequent washing of the streets and flushing of the sewers which empty into the river below the city. The municipal garbage disposal plant burns the garbage collected in the city.

Transportation

Advantageous production is but half of the battle for industrial supremacy; accessibility to market is so important that it is often the greatest factor in determining the location of a plant. Nearness to market and transportation that is reliable, rapid and cheap form the ideal conditions on this side of the question. Situated midway between the great markets of the East and West and right at the door of the Great Lakes and the South, Steubenville is as advantageously located as could be imagined, while the transportation service by rail and water to all points is ideal. Two lines of railroad run east and west and two north and south, all of which are supplemented by the Ohio River. In the city proper the Pittsburg, Cincinnati, Chicago and St. Louis, and the Cleveland and Pittsburg Division of the Pennsylvania Lines and the Wheeling and Lake Erie Division of the Wabash System and across the river the Pittsburg, Wheeling and Kentucky Division of the Pennsylvania Lines offer every passenger and freight facility. By these lines New York is 10 hours distant, Chicago, 12; St. Louis, 15; Cincinnati, 7½; and Cleveland, 4. Sixty-four trains, carrying 4000 passengers, run out of the city every day, while the daily tonnage shipped is 15,000 tons.

Ever since the first pioneers came over the Allegheny Mountains, the Ohio River has been the source of transportation for this region, about which all others have been grouped. The moving of vast amounts of tonnage at cheap water rates has been of tremendous advantage to the manufacturers along the river. The importance of maintaining this water traffic throughout the year is so clearly recognized that the United States government has adopted a definite policy towards the improvement of the Ohio River and is spending millions of dollars every year in the construction of a system of locks and dams which will slackwater the river from Pittsburg to Cairo.

The first dam on the river was built at Davis Island, below Pittsburg, and was completed in 1885 at a cost of \$1,000,000. So successful has it proved that all the other dams are to be of the same type. Each dam is built with a lock 600 feet long and 110 feet wide. The dam proper is in sections, or wickets, 4 feet wide, hinged at the bottom to the dam and supported by a prop, which is tripped and the wicket allowed to lie flat when the water is high enough to give a nine foot stage without the dam. The size of the locks will permit freight and coal barges with a tonnage equal to a large ocean steamer to pass through. Sixty-eight dams, costing \$1,000,000 each, will be required to complete the series to Cairo. Already the river is slackwatered to the nine foot stage from Pittsburg to Rochester, forty miles above Steubenville, three of the dams between Rochester and Steubenville are practically completed, and the dam at Brilliant, which will give slackwater in front of the city is now finished, except for hanging the gates, so that in a few years the river will always be navigable from Steubenville to Pittsburgh. In preparation for the increased trade which this will bring, the city has built a public wharf at the foot of Market street. It is made of the very best paving block to stand the action of the water and present the right surface for the heavy teaming to which it will be subjected.

Many people fail to grasp the significance and importance of this stupendous project. Today, under the present handicaps, over 15,000,000 tons of freight pass Steubenville annually on a fleet of 100 towboats and 4,000 boats and barges, whose capacity of 4,000,000 tons

is greater than the tonnage of all the registered vessels in any seaport of the United States. With navigation assured throughout the year this will be multiplied many times, transportation will be less hazardous and the lowest freight rates of any inland district in the world will result. The all-water route down the Ohio and the Mississippi will put this great industrial region in touch with every port in the world, especially after the completion of the Panama Canal. Its international importance can be recognized from the fact that coal for the Japanese fleets in the war with Russia was transported down the Ohio. At the present rate of increase the population of the United States will be doubled in the next forty years. These millions must build up new industrial communities which will be along the great arteries of trade. Then this region, with its great supplies of natural resources and its transportation by rail to all parts of the country and by water to all parts of the globe, will truly throb as "The Heart of the Workshop of the World."

The necessity of having cheap water transportation for industries whose product involves high tonnage is now so well established that the movement is on foot to build a canal from the Ohio river at Rochester, twenty-eight miles below Pittsburgh, to Lake Erie, a project which will cost the comparatively small sum of \$50,000,000. The determination to have this canal in the immediate future is so strong that even if Federal and State aid should not be given, the business men of this region will construct it as a private enterprise. This will give an all-water route from Duluth and enable the manufacturers of this region to bring their ore from the lake to the river at a cost of 25 cents instead of \$1.25 a ton. In turn, the finished products can be shipped by the canal to the lake and thence to Buffalo and Albany by the Erie canal, on which the State of New York is expecting \$101,000,000 to make it suitable for modern demands in five years. With water transportation down the Ohio to the Gulf and through these canals to New York, this district will have such cheap and regular water connections that her leading industrial position will be unassailable.

The bulk of the local passenger traffic is served by a splendid trolley service which meets every demand. By it one can live on the hilltop suburbs and work anywhere in the Steubenville district with as much comfort as in the older portion of the city, while interurban lines give cheap, rapid transportation at all hours to and from the neighboring towns and country. Because of the nature of the country along the river most of these lines were built at great cost, and credit is due the companies that they give excellent service at the lowest price. Up the river the Ohio Valley Scenic Route takes one for forty miles through the most beautiful section of the Ohio valley. It is the direct route to Toronto, Wellsville, East Liverpool, Beaver, Rochester, Pittsburgh, Youngstown, Canton and Cleveland. Down the river on the Ohio side, the Steubenville & Wheeling Traction Co. connects with Mingo Junction and Brilliant. The new track beside the river to Mingo Junction cost \$225,000 for 1.8 miles, probably one of the most expensive bits of trolley line in the country. Through the energy of Mr. D. J. Sinclair, the most prominent citizen of the city, a steel bridge was launched across the river at the foot of Market street, a boulevard cut in the face of the bluff and a trolley line constructed to Pollansbee and Wellsburg, where direct connection is made for Wheeling. Two more lines have been planned which will connect Steubenville with other points, one from Steubenville to the new town of Weirton, six miles above the city, and the other to Canton, Ohio. Both of these lines would open up a rich country and add largely to the prominence of Steubenville as a transportation center.

Not to be outdone by her steam, water and trolley lines, the city itself has twenty-four miles of the best kind of street paving, which means that practically every street and alley has this improvement. The county, too, is known as having the best macadamized roads in the State, \$1,000,000 having been expended upon her 154 miles of roads of this construction. In addition, there are eight miles of brick paved highways and 750 miles of dirt roads, all of which enable farmers and autoists to move quickly from place to place, and brings the country in close touch with the city.

Natural Resources

The first work of the early settlers in a new place was to hew out a farm from the surrounding forest. The abundance of wood was burned for all purposes, and for a long time did away with the necessity in this region of developing the coal veins, whose presence was known and which could be obtained with little more labor than the wood. It was not until commerce had been well advanced that it was called into use because of its greater adaptability for industrial purposes. Today there are two mines within the corporate limits of Steubenville, the High Shaft and the La Belle. The La Belle mine is located under the river and the site of the La Belle Iron Works, its production of 126,000 tons a year being used entirely by the plant itself. The High Shaft was opened in 1857, and is said to be the oldest mine in the State. It now employs seventy-five men and is operated entirely by electricity, four cutting machines and two electric motors being used to get out the annual production of 150,000 tons. A shaft 225 feet in depth reaches the four foot vein of No. 6, Ohio Geological Survey, coal. As coal and coke, this is equal to the Pittsburgh coal, and analyses at the following figures:

COAL.		COKE.	
Carbon	56.07	Carbon	86.12
Volatile Matter	38.54	Volatile Matter	2.35
Ash	2.90	Ash	9.883
Sulphur76	Sulphur	1.48
Water	1.73	Water15
		Phosphorus0017
	100.00		99.9847

Jefferson County, of which Steubenville is the County Seat, stands third among the counties of the State in the mining of coal, the main development having come since the Wheeling & Lake Erie railroad was put through this section in 1888. Veins Nos. 6, 7 and 8 are the principal ones mined. The last report of the State Mining Department shows that in 1908 the total number of tons mined in Jefferson county was 3,565,008, practically one-eighth of the total output of the State. In 1907 there were 5,787 men employed in the mines of the county.

Jefferson County is also fortunate in its deposits of fire clay. In this she stands first in the State with a production of 450,111 tons out of 2,177,174 for the whole State. While fire clay is found in connection with the coal mines over the most of the county, the industry is confined mainly to the stretch of five or six miles along the Ohio river beginning seven miles north of Steubenville. Both sides of the river are lined with works turning out sewer pipe, tiling and brick.

In late years the Steubenville district and Jefferson County have gained some distinction in the development of gas and oil fields. While the greatest quantities of gas used in the manufacturing establishments of the vicinity come from the West Virginia fields, the supply has been largely supplemented by local wells. Oil was found in varying quantities throughout the county, but the larger fields have been opened up in the last few years within a few miles of the city. The

field just back of the city had an output of 2,300 barrels a day. In 1907 the La Belle Iron Works, while prospecting for gas on their property across the river from the southern end of the city, opened up a pool whose production shortly ran up to 3,000 barrels a day, and is still good for 1,500 to 1,800 per month. The trend of this pool led other men to sink test wells on the Ohio side at Mingo Junction, the town adjoining Steubenville on the south. Oil was struck and a boom followed which was a live representation of Cripple Creek or the Klondike in their palmiest days. As the field went into Mingo, where wells were sunk on the many small individual town lots, the pool was so rapidly exhausted that hardly any of the speculators made profits. Across from the northern end of Steubenville a field was opened which was two and a half miles long, with an average width of half a mile. The greatest production was 2,000 barrels a day and it is still holding up to 1,200 barrels. The total daily output of the county is between 3,000 and 4,000 barrels.

Industries

The last ten years have seen a wonderful development in many American cities. Their progress has invariably depended upon additions to the list of their manufacturing concerns, for not only does increase in population depend upon the size and strength of the factories, but also its wealth and all that it brings in educational facilities, civic improvements, better homes, first class stores and general culture. The 1905 census of manufactures shows that Steubenville enjoyed the largest percentages of increase of any city in Ohio, her capital increasing 448.4 per cent., wage earners, 136 per cent.; wages, 217.1 per cent.; and the value of products, 172 per cent. The nearest percentage in any item of any other city in Ohio was 32 per cent. less.

La Belle Iron Works

This phenomenal growth of Steubenville has been mainly due to the location here of the La Belle Iron Works, a company with a national reputation as one of the largest independent mills in the country. It was incorporated in 1852 and for years carried on its business in Wheeling. In the late '90's it was decided to enlarge the plant; the capitalization was increased to \$10,000,000 and the Jefferson Iron Works in Steubenville were purchased, torn down and the present works erected on the site.

Its slogan, "From Mine to Market," describes its position as a truly independent mill. The Company owns and operates its own ore mines, coal mines, coke plants, limestone deposits, blast furnaces, steel plant and finishing departments. This position of self-containment makes possible the most economical manufacture and insures a uniform product of high grade.

The Company owns one stripping and two shaft mines in the Mesaba district of Lake Superior, the former having a record of 4,660 gross tons, or 233 carloads of ore mined and shipped in one day. From the mine the ore is taken by rail to the docks on the shores of Lake Superior where it is transferred to the steamer La Belle, a modern lake vessel owned and operated by the Company, which brings it to one of the neighboring ports on Lake Erie. It is then brought over to Steubenville on either the Pennsylvania railroad or the Wabash, both of which have connections with the internal system of the works. With the completion of the Ohio River and Lake Erie Canal, ore may be brought by water direct to the mill from the Superior docks — another practical economy from "Mine to Market."

The Company maintains a coke plant in the famous Connellsville region, where it owns and mines its own coking coal. Railway facilities from the plant to Steubenville are very good, and shipments can

also be made entirely by water if so desired. Another very favorable feature of the Steubenville plant is that its coal mines are directly beneath the property. Coal, which is a large factor in the production of steel, is therefore obtained at cost. Gas and oil are also found on the property in large quantities.

The La Belle is an open hearth plant, this method having proved to produce the best steel free from the undesirable phosphorus and sulphur. It operates ten open hearth furnaces, having a capacity of sixty tons each per heat or a total capacity of approximately 1500 tons daily. Tests are made of each heat or charge during the boiling process in order to ascertain the exact quality, and, if desired, make any change before pouring. This makes it possible to deliver steel of uniform quality, which is a primary requisite in the successful manufacture of finished steel for whatever purposes.

The initial heat of the ingot is retained from the furnaces through the soaking pits and the blooming mill, which has a capacity of one ton per minute. It is there cut up into billets and slabs or conveyed to the plate mill, where it is rolled into car and ship plates, skelp, sheet and tin bars. This one mill has a capacity of thirty car loads every twenty-four hours. Pipe is also one of the main products. The sheet department covers an area of 10 acres and consists of two jobbing and eight sheet mills, having a capacity of 6,500 gross tons monthly. The equipment throughout the whole plant is of the most modern type, so arranged as to turn out the various products with the least handling and cost.

The Company owns eleven locomotives of its own, besides the two maintained for its exclusive use by the Pennsylvania railroad and the Wabash, whose lines pass the plant. These are operated over a yard trackage aggregating forty miles. Foundry, testing laboratory and power plant are other important departments, the latter having within it 32 boilers with a total rated capacity of 16,000 horse power, and six generators, six hundred electric motors being in daily operation in various parts of the mill. The final step in the completeness and consistency of its policy of self-containment is shown in the location of the general offices of the Company at the plant, the successful administration of such an extensive business calling for the personal attention and presence of every officer of the Company.

Some statistics for 1910 regarding the Company make a very interesting showing:

Capital stock	\$10,000,000.00	
Assets	17,378,092.59	
Dividends	892,339.00	
(8% first two quarters—10% last two quarters.)		
Value of shipments	\$13,719,912.00	
Total production of ore.....	396,101	tons
Total production of coke	69,949	tons
Total production of oil	31,227	barrels
Tonnage of finished product.....	960,940	tons
Number of employees.....	3,600	
Pay roll	\$ 3,095,507	

The Acme Glass Works

For a long time one of the leading industries has been the Acme Glass Works. These works were first established by a co-operative company from Pittsburgh, but now have been owned by the Gill Brothers Company for over thirty-five years. They are known all over the country as the largest manufacturers of lamp chimneys under one roof. Through long experience and faithful experiment the quality of their chimneys, globes, reflectors and electrical glassware has secured a reputation that extends beyond the borders of this country,

their exports going into Africa, Central and South America, the Orient and Australia. The works have been increased from time to time so that now it comprises four furnaces, with an aggregate of 54 pots, which gives a capacity of 600,000 to 800,000 lamp chimneys a week. 1,100 men are employed, many of whom have grown up with the business and are numbered among the best citizens of the place.

The Steubenville Pottery

One of the most progressive plants in the city is the Steubenville Pottery. This old, substantial firm has been one of the pillars of Steubenville's commerce, and is now enjoying unusual success under its young president and proprietor, Mr. H. D. Wintringer, who is also president of the Chamber of Commerce. In his pottery Mr. Wintringer has been able to exercise an artistic taste that has led him away from the old lines to bring out new creations in semi-vitreous porcelain dinner and toilet sets and specialties. It is one of the sights of the town for a visitor to go through the plant and see how quickly the white, chalky clay from England, New Jersey or Florida is mixed, then shaped into a cup, saucer or cocoa jug under the deft fingers of the potter, baked in the kilns, glazed, decorated, baked again to hold the colors and finally packed in big casks to go off to some department store or jobber. From Maine to California one may find his dinner served on Steubenville ware.

The Ohio Valley Clay Company

Closely allied with the manufacture of glass in Steubenville and vicinity is the manufacture of glass house pots, tanks and blocks by the Ohio Valley Clay Company. The product of this up-to-date concern finds a wide market wherever glass is made in the United States or Canada. The able president of the Acme Glass Company, Mr. J. W. Gill, is also president of this firm. During the last year the rapid growth of its business has necessitated an extension of the plant, so that today it is a thoroughly modern and model plant of its kind and covers a floor space of 12½ acres.

Chicago Wall Paper Mill

One of the younger industries is the Chicago Wall Paper Mill. Under the direction of its able president, Mr. O. J. Hennings, this plant has established a brilliant record for itself and is now one of the most successful concerns in the city. 4,500,000 rolls of paper hangings are turned out annually, the plant being pushed to keep up with the orders that await it. It employs 55 men, and plans are now complete for increasing the capacity of the plant 50 per cent and adding a warehouse.

Pope Tin Plate Company

With the establishment of the La Belle Iron Works the erection beside it of the Pope Tin Mill was but the recognition of the natural benefits to be derived from the co-operation of the two plants. From the adjoining mill of the La Belle the steel bars are transferred to the Pope mill, where they are rolled, tinned and shipped. 700,000 boxes, worth \$3,000,000, is the approximate annual output. Its product finds a large market in the manufacture of cans, enamel ware and steel ceilings throughout this country and the Orient. The Pope runs 12 mills and employs 800 men and is the second largest plant in the city.

The Ohio Foundry and Manufacturing Company

One of the concerns that has grown up with the city is the Ohio Foundry, which for 63 years has manufactured stoves and iron products. The principal products today are gas stoves and grates of the

finest design, finished in brass, copper, bronze, Japanese bronze and oxidized colors. The plant consists of four large buildings beside the Pittsburgh, Cincinnati, Chicago & St. Louis tracks, where switching facilities make it possible to receive at the lowest cost the raw materials for the work which this region produces.

Hartje Paper Manufacturing Company

The oldest industry in Steubenville is the Hartje Paper Mill, which was established in 1813. For the past fourteen years it has been operated day and night except Sundays, employing 250 hands, who turn out a product of wrapping paper, pulp, straw and pulp board amounting to 110 tons daily. The wood consumed by this plant in one year would make a pile twice the size of the Metropolitan Tower. A roll of paper 14 miles long and weighing 2,700 pounds, the largest in the world, was made here.

Woods Valve and Machine Company

Some of the largest users of high pressure hydraulic valves in the country are supplied by the Woods Valve Company, which manufactures a valve that stands a test of 5,000 pounds per square inch. The 150 tons approximate output yearly is being steadily increased, and will soon be augmented by the tonnage of another specialty in the shape of a high grade filter which will be put on the market early in the coming year. While as yet one of the younger concerns, the Woods Valve Company is showing a healthy growth and is an excellent example of the possibilities for small diversified industries in this district.

The Steubenville Stone Company

The Steubenville Stone Company was incorporated in 1903 with a capital of \$5,000, and has since carried on an extensive business in foundation work, stone buildings, concrete building blocks, burial vaults, cement pavements, sewers, street paving, and all kinds of stone work. Large quantities of stone are obtained from the company's quarry on West Market street and sandstone is brought in from Indiana. The various lines of work keep thirty masons, cutters and laborers regularly employed and others are added in the rush seasons.

Floto Brothers Construction Company

Most of the handsome stone buildings and bridges in this city and vicinity have been constructed by the enterprising firm of Floto Brothers Construction Co., who do a general contracting and building business.

This company was originally formed and most successfully conducted by Frederick Floto and his brother Henry, thirty-seven years ago. Upon the death of Frederick Floto, in the year 1901, the business passed into the hands of his four sons, Frank H., Fred N., Chas. D. and Louis G. Floto, who have continued it with great success.

Two quarries are operated near the city. Many car loads of Cleveland sand stone and Indiana lime stone are used annually. In addition to contracting in stone work, the firm is also extensively engaged in the manufacture of concrete building blocks of every description, having an up-to-date plant, with a capacity for manufacturing 500 blocks daily. Special machines are installed for the manufacture of granolithic stone, a special patented reinforced nosing step, porch columns and mouldings of all kinds are made. The entire product are steam cured, thus ensuring perfect tensile strength. Among the many handsome specimens of concrete work erected by them during the past year are the two artistic granolithic concrete bridges erected on Lincoln avenue, the Market street granolithic retaining wall and drinking fountain, several garages and scores of foundations, porches, etc.

Union Lumber Company

One of the more recent companies in the city is the Union Lumber Company which is capitalized at \$30,000, and has located a big lumber yard and modern buildings covering 29,000 square feet beside the Pittsburgh, Cincinnati, Chicago & St. Louis R. R. tracks, opposite the Ohio Foundry. The yards are arranged to keep the stock in systematic piles sheltered from the weather. \$25,000 worth of stock is carried and two teams and eight men are employed. The officers are J. E. Scamahorn, President; D. H. McDevitt, Secretary; W. S. Scamahorn, General Manager and Treasurer; W. B. McMechen, Vice President.

James Workman & Sons

Seventeen years ago Mr. James Workman built a shop and began the manufacture of carriages. Since then the shop has never had a shut down and has been added to until it is now a two story building occupying a large lot. Mr. Workman has had an experience of forty years in this line of work, and has now taken his three sons into partnership with him, who, with the twelve men regularly employed, make up the force. The latest machinery has been installed, among it being a 30-horse power gas engine, which furnishes the power. One hundred handsome business wagons and trucks are put out yearly, while carriage painting and automobile repair work are lines that make the plant a busy spot.

Central Sewer Pipe & Supply Company

In May, 1907, the Central Sewer Pipe & Supply Company began business at a location beside the freight yards of the Pittsburgh, Cincinnati, Chicago & St. Louis Railroad. The warehouse and office occupy a large two story building, which is supplemented by a large yardage which is always filled with sewer pipe, tile, cement, brick, building blocks and wall plaster. Large amounts of material are shipped to all points up and down the valley and through the surrounding country, while a strong trade is carried on with points in New England, New York and Kentucky. Four teams and fifteen men are employed. The Company is capitalized at \$10,000 and has for its officers B. S. Pope, President; H. H. Smith, Vice President; D. J. Sinclair, Treasurer; and H. W. Irons, General Manager and Secretary.

Other Industries

Among the other industries of the city are the Steubenville Ice Company, which erected a modern plant for making artificial ice in 1909, and produces a yearly output of 5,500 tons; the Central Co-op-erage Company, which turns out 60,000 casks and barrels annually valued at \$50,000, its product being used principally for packing by the glass and pottery companies in this vicinity; the Aetna Milling Company, dealing in flour, grain and feed; Thomas & Co. Foundry and Machine Shop, which deals largely in forging, drilling and fishing tools and other oil well supplies; The Ohio Plaster & Supply Company, manufacturers of hard wall plaster, with an annual production of 7,500 tons; the Franklin Machine Works and Foundry, which is always busy with machine shop work and fine brass moulding; the Alexander, McPeely Bros., Cavitt, and Fitzsimmons Lumber Companies; and the Nicholson Brick Company, whose kilns bake 2,000,000 bricks a year.

Statistics of Growth

The United States Census for Manufactures in Ohio for 1905 has the following to say:

"Steubenville, the city (in the State) for which the largest per-

centages of increase are shown, owes its phenomenal growth chiefly to the development of the iron and steel industries and the establishment since 1900 of a mill making tin and terne plates. Other important industries in this city are the manufacture of glass, paper, wood pulp, pottery, terra cotta and fire clay products."

PERCENTAGES OF INCREASE FOR CITIES IN OHIO

Census of 1905.

	Number of Establishments.	Capital.	Average Number of Wage Earners.	Wages.	Value of Annual Product.
Cincinnati.....	11.5	25.9	6.6	18.6	17.2
Cleveland.....	19.9	68.3	21.2	35.6	36.4
Youngstown ..	15.5	92.0	¹ 1.2	20.9	41.9
Elyria.....	56.3	175.0	79.3	111.0	140.2
Steubenville ..	33.3	448.4	136.0	217.1	172.0
" ² 1910 ³ 53.7 ⁰		466.43	268.13	647.8	342.48

1—Decrease.

2—Estimated by The Chamber of Commerce, 1910 with 1900.

3—Decrease, due to limiting estimate to strictly manufacturing plants.

STEUBENVILLE.

Census for Manufactures for 1900 compared with estimate by The Chamber of Commerce for 1910.

Year.	Population.	No. of Establishments.	Capital.	Average No. of Wage Earners.	Wages	Value of Annual Product.
1900.....	14349	54	\$ 2,302,563	1,773	\$ 734,244	\$4,547,049
1910.....	25000	25	13,043,000	6,527	4,756,462	20,119,662
% Increase	74.2	¹ 53.7	466.43	268.13	647.8	342.4

1—Decrease. Accounted for above.

PITTSBURGH DISTRICT.

Census of 1905.

	No. of Establishments	Capital.	Average No. of Wage Earners.	Wages	Value of Annual Product
1905.....	3,673	\$735,761,706	202,414	\$116,809,730	\$647,900,506
			Population 3,500,000 (Estimated).		

It will thus be seen from the statement of the highest authority that Steubenville's industrial growth has been enormous since 1900. Her commercial strength has given her a prominent place among the iron, steel and tin centers of the country which, together with its location in the heart of that area of high industrial activity known as the "Pittsburgh District," insures a future for her that will be marked by steady, continuous progress. Signs of it are to be found in the new towns of Follansbee and Weirton, which are growing up around plants that have been established in the Steubenville District within a short time.

Follansbee, West Virginia

In 1902, Mr. D. J. Sinclair, the proprietor of the Union Deposit Bank, who was largely responsible for the establishment of the La Belle Iron Works and the Pope Tin Mill, brought about the location of a large tin mill by the Follansbee Brothers of Pittsburgh, on the other side of the river, opposite the lower end of the city. Here there was a natural location for a town with railroad connections and river transportation right at hand. Around the mill a town of about 3,000

has been built, and trolley service with Steubeville established. To put through this trolley line Mr. Sinclair built a boulevard along the face of the bluff opposite the city, and secured the building of a steel bridge across the river to the foot of Market street at the cost of \$350,000. Follansbee now has paved streets, electric lights, a fine water works and a complete system of sewers. The well system for the water works gives water that is absolutely pure. The pumping station has a capacity of 500,000 gallons a day, forcing the water up to a reservoir on the bluffs which has a storage capacity of 1,500,000 gallons, giving a pressure for fire purposes of 155 pounds. Two school buildings have been erected at a total cost of \$34,000 to take care of the younger generations of this growing town. The Citizens Bank of Follansbee is capitalized at \$25,000, its surplus and undivided profits amount to \$4,000, while its total assets show the following steady growth: June 30, 1907, \$41,000; 1908, \$64,000; 1909, \$90,000; 1910, \$120,000; December 30, 1910, \$150,000. Mr. H. C. Meyer is president and C. B. Crawford the active cashier.

The Follansbee Brothers Company

The hammered open hearth tin plate made by the Follansbee Bros. Co. is the recognized standard for tin plate in this country. The mill was designed and is operated after the best methods of the old Welsh manufacturers, coupled with American skill and science. All stages of the manufacture, from the raw material to the finished product, are conducted by the one mill, allowing control over every separate process and insuring a product of absolutely determined quality.

The open hearth process is used as giving the purest steel. When the raw materials have been reduced to a molten state in the furnaces samples are taken and tested in the laboratory. The charge is always under control and is manipulated until the test shows it to have reached the desired analysis. It is then run off into a 35 ton ladle and poured into ingots by the "Bottom Pour," which prevents any slag from becoming mixed in the metal and insures uniform and solid ingots.

A unique feature of the Follansbee product is that it is hammered, not rolled according to the ordinary method. After reheating, the ingot is placed under an 8 ton drop hammer capable of striking an 800 ton blow, and is thus hammered from an ingot $10\frac{1}{2} \times 10\frac{1}{2}$ at the bottom, $8\frac{1}{2} \times 8\frac{1}{2}$ at the top and 60 inches long, down to a billet 6 inches square and 10 feet long. In this way such physical defects as air or blow holes are eliminated. The hammering also increases the ductility and toughness of the metal. The usual rolling process is not sufficient to drive out the air, but simply changes the form of such defects.

The billets are cut into convenient lengths and rolled into tin bars 8 inches wide by 30 to 50 feet long. These are cut into lengths to correspond with the sized plates desired. They then go through the processes of hot rolling, pickling, washing, annealing and tinning.

All these processes are under the supervision of trained superintendents, while the 1,200 men in the mill are regarded as the most skilled body of workmen among the tin workers. Wm. Banfield, the general manager, was the pioneer tin maker in this country, and credit is due him for the enviable reputation of "Follansbee Tin."

The annual production amounts to 40,000 tons of steel and 30,000 tons of sheet iron and tin plate, having an aggregate value of \$3,000,000. The works comprise ten hot mills. Large quantities of the plate are used for clocks, automobile hoods and bodies and other products that require the fine finish that alone gives the high polish that is especially desired on such work.

Another Follansbee industry is the S. Keighley Metal Ceiling & Manufacturing Co., whose product is metal ceilings, window frames, etc. About 100 men are employed. It is conveniently located near the Follansbee Bros. Co., the sheet steel of that mill being the raw material used for its work.

The glass industry is represented in Follansbee by the Jefferson Glass Company, which is incorporated with a capital of \$100,000. 300 men are employed in the manufacture of crystal and colored tableware, novelties and lighting goods.

The Sheet Metal Specialty Company

The Sheet Metal Specialty Company is an industry closely allied with the Follansbee Brothers Co., Mr. John Follansbee being its president. The concern was established four years ago with a capitalization of \$25,000, and has since been in continuous operation, its business having been so successful that the firm always has more orders than it can fill. Seventy-five men are employed in making up the sheet steel and tin plate of the Follansbee mill into stove and furnace pipe, elbows and all sorts of metal goods.

Weirton, West Virginia

A year ago the first families moved to Weirton, a new town on the West Virginia side of the Ohio river, five miles north of Steubenville, which was being built around another large tin mill whose location here was also due largely to the ability and enterprise of Mr. Sinclair. Five months before engineers and carpenters had visited the hay field which covered the broad valley leading back from the river, and soon rows of cottages began to mark the familiar landscape, and across the valley the big mill of the Phillips Sheet and Tin Plate Company, which was putting up the town, stretched out into a model plant. Today it is a town of 250 houses and 3,000 inhabitants, while houses are going up wholesale to relieve the congestion and keep pace with growth in population. The houses have from four to seven rooms, renting from \$10 to \$22.50, and are connected with 12 inch sewers and 6 inch water mains. Even in the rush to simply house the people, essential features of every town were not forgotten so that three churches, a fire house and a school house, enlivened by 280 children, are already among the public buildings. The fire company comprises twenty-five volunteers and 2,000 feet of hose. In case of a fire the distributing tank on the bluffs, which supplies water to the houses, would be disconnected and the big pumps of the mill thrown in, which would give 150 pounds pressure on the fire hydrants. Weirton is a regular station on the Chester branch of the Pennsylvania railroad and is served by eight trains a day, which brings it in close communication with Steubenville. The river also offers a means of transportation which will be available for any other factories locating here as a free right of way is to be maintained from the river to the space reserved for them. The level valley offers such ideal sites for plants that in a few years the beauty of its fields will undoubtedly be replaced by the stern creations of industry.

The Phillips Sheet and Tin Plate Company is capitalized at \$5,000,000. After working for two years on the plans for a new mill and town at Weirton, ground was broken in May, 1909. By February, 1910, the mill was in operation. The plant is located between the Ohio River and the Chester branch of the Pennsylvania railroad, which affords it excellent transportation facilities, the railroad running its switches directly into the mill yard. The four main

buildings, including the machine shop, are of fire proof construction throughout, being made of iron, brick and cement, and cover an area of thirty acres. The plant operates 20 hot mills which turn out 1,500,000 boxes of tin plate a year, or from 5,000 to 6,000 tons a month, making it one of the largest tin plate plants in the United States. Both Bessemer and open hearth steel are used in the production of black sheets, tin and terne plates. 1,600 men are employed, to whom \$1,250,000 is paid annually.

Close attention has been paid to the installation of equipment which will provide for the most economical and systematic work which modern practices in manufacturing can suggest. The exhaust power of the plant is passed through condensers and used to run the turbines which generate the electricity with which practically everything but the hot mills are run. In the same manner all the coal used in the plant is handled by two men. It is dumped into a crusher and hoisted by a continuous belt into coal bins 60 feet high from which it is distributed by chutes to automatic stokers and by a motor to the heating and annealing furnaces. Only two men are employed in the boiler house which contains ten boilers. All the ashes throughout the plant are never handled, but drop into a tunnel and are swept out by a continuous stream of water.

The Company also owns and operates a large 12 mill plant at Clarksburg, West Virginia, but the general offices are located at Weirton. Branches are maintained in Pittsburgh, New York, St. Louis, San Francisco, Chicago and Portland, Oregon. While not as yet one year old, the Weirton plant is a splendid example of how many American industries today are planned and conducted on a large scale from the very beginning and are eminently successful. Another interesting feature is that the close relationship between the town and the mill has made possible a better acquaintance between employer and employee than is usual in modern business life, and it is but another just tribute to Mr. E. T. Weir, the young president of the company, that he has been as successful in winning the respect and affection of his men as he has been in the conduct of the affairs of the company which he honors by his leadership.

Mingo Junction, Ohio

Steubenville's neighbor on the south is called from its old Indian name, "Mingo Junction." One of the mills of the Carnegie Steel Company is the main industry, but some day in the near future Mingo will be the boom town of this region, its excellent transportation facilities and manufacturing sites making it the most desirable location for plants anywhere in the Upper Ohio Valley. Four railroads meet here—the Pittsburgh, Cincinnati, Chicago & St. Louis and Cleveland and Pittsburgh divisions of the Pennsylvania lines, and the Wheeling & Lake Erie Railroad and Wabash Terminal divisions of the Wabash system. The river, of course, is also available. Over 400 acres of factory sites are to be had at a nominal price or will be given free to reliable concerns by the Board of Trade of Mingo and The Chamber of Commerce of Steubenville. At no other point in this region is there such a happy combination of manufacturing advantages as here at Mingo, and the firms that seize the opportunity now open to them to locate here will find themselves in possession of vital assets in the business world which will be of tremendous assistance in placing them at the top in their lines of industry.

The population of Mingo is about 4,000. The town has a complete water works, paved streets and electric lights. Beautiful public

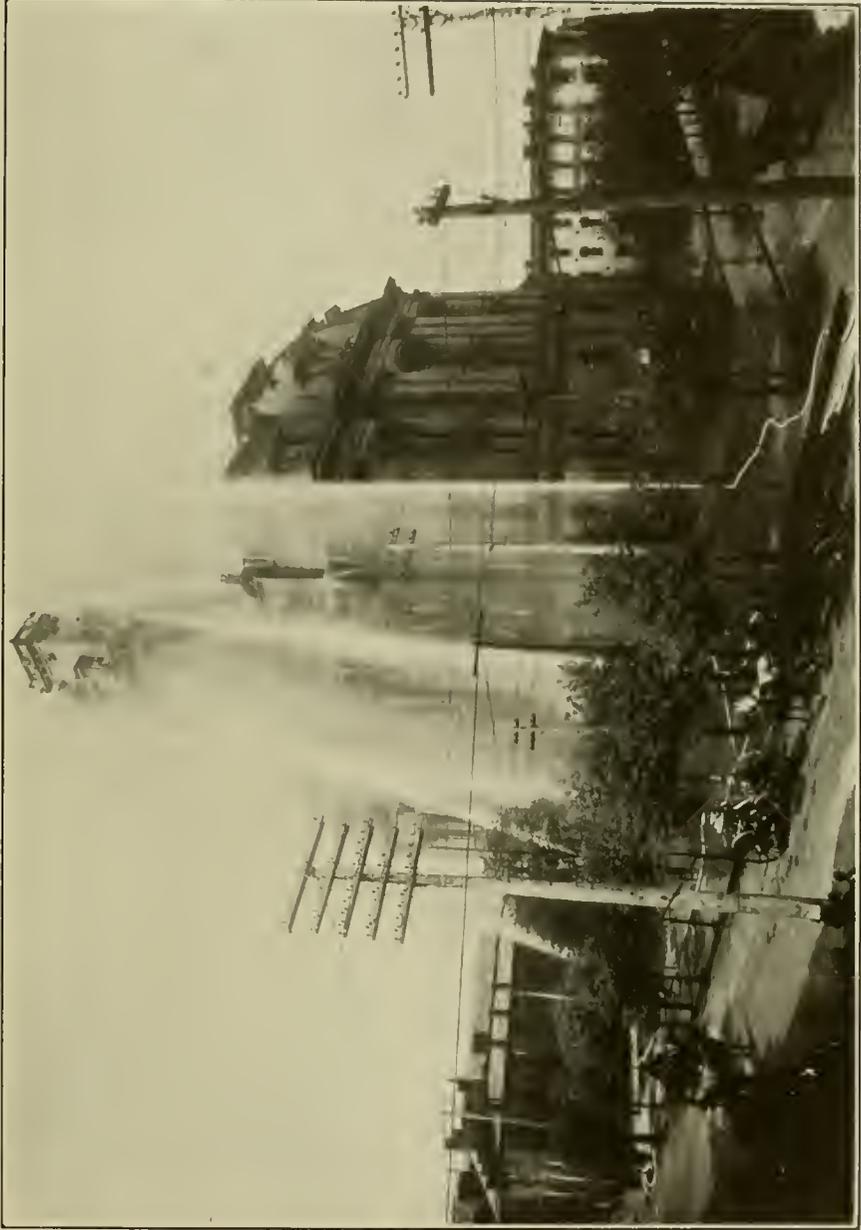
schools and one parochial school offer the best educational facilities possible to 700 school children. The social side of the town is well provided for by a number of flourishing fraternal organizations and five churches indicate the religious development of the community. The First National Bank is a thriving institution with \$158,177.75 of resources. The trolley line of the Steubenville and Wheeling Traction Company passes through Mingo, maintaining a half hour schedule with the town of Brilliant, a few miles below, and with Steubenville.

Carnegie Steel Mill

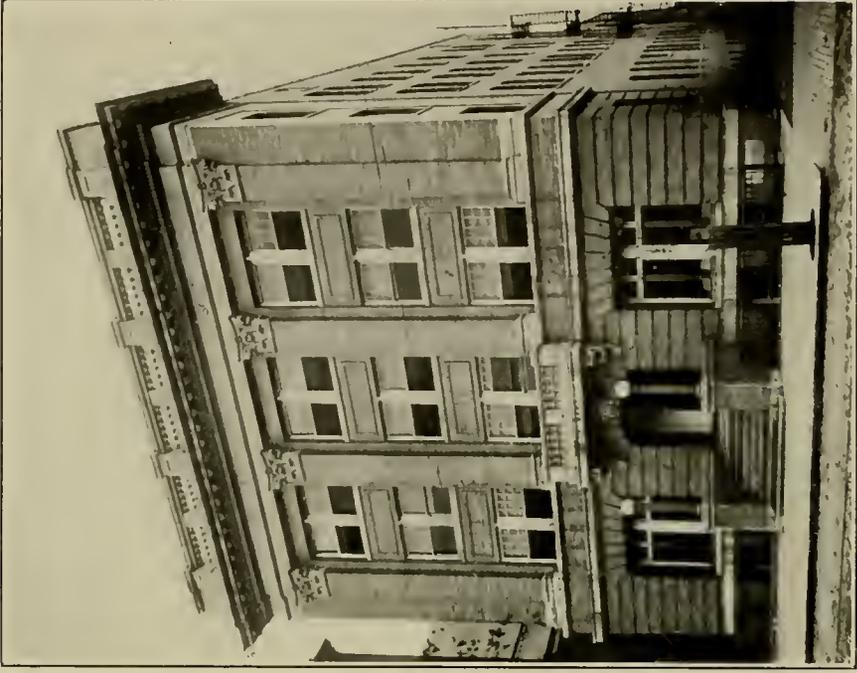
The steel mill of the Carnegie Steel Company located here is one of the largest in the Valley. Bessemer steel in the shape of slabs, blooms, merchant bars, billets, etc., is the main product of the plant, which comprises four blast furnaces, two Bessemer converters, two continuous mills and two blooming mills. Power for the works is furnished by 63 boilers, with 19,650 horse power, and three generators with 6,000 horse power in electric motors. 1,250,000 tons of ore, 300,000 tons of limestone, and 600,000 tons of coke are used in turning out an annual output of 600,000 tons of pig iron and 500,000 tons of slabs, blooms, skelp and other finished product. The progressive spirit of the Company is shown in the care it takes to provide for the safety of its men, all possible precautions being taken and devices used to prevent accidents. At night the big converters light up the whole valley with their flames and cast a lurid glow on the skies that is seen for miles around.

Steubenville Welcomes You

The story of every section of this wonderful country of ours has its own points of interest. This variety gives it the freshness which makes it such a good place in which to live. Though surrounded by a beautiful country where one can enjoy the peace that is among the hills, the story of Steubenville is one of industry. The hum of her commerce fills the valley, the light of her fires at night tells of untiring toil, the water of the grand river beside her is cut by the fleets of trade, the throb of the iron steeds along her roads of steel speaks of her products sent to all parts of the world. This is her glory. Situated in the midst of a great industrial region, midway between the great markets of the country, with raw material and cheap fuel right at hand and transportation facilities that are unexcelled, Steubenville is true to her name, "The Heart of the Workshop of the World." Though but few of us can enjoy the pleasure of traveling the several thousand miles around this earth, you may be sure that if ever the serious matters of business, the unforeseen chances of life or this invitation brings you within its borders, Steubenville welcomes you.



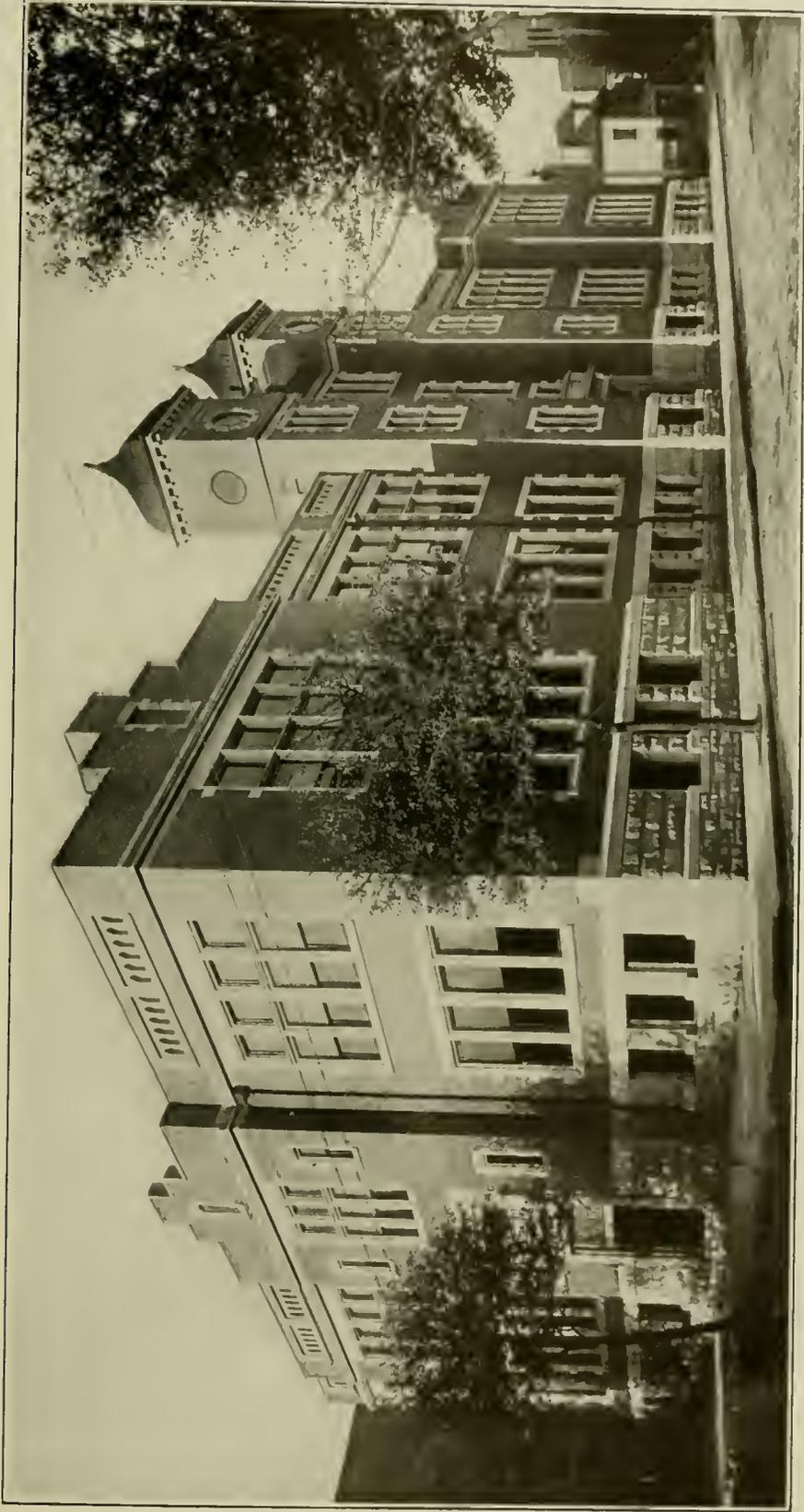
Court House, Steubenville, Ohio--Showing our magnificent High Pressure Water System



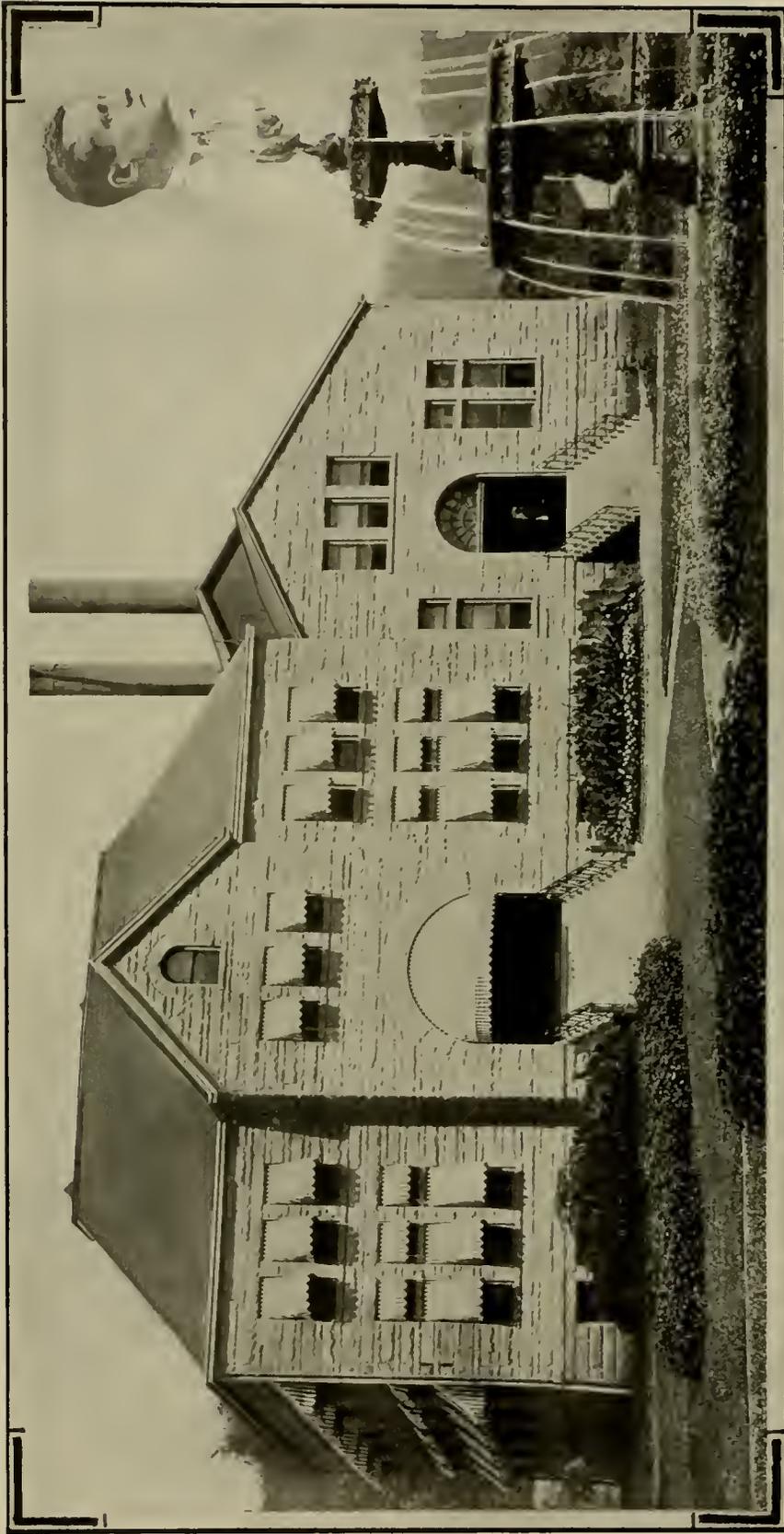
Home of the Young Men's Christian Association, Steubenville, Ohio



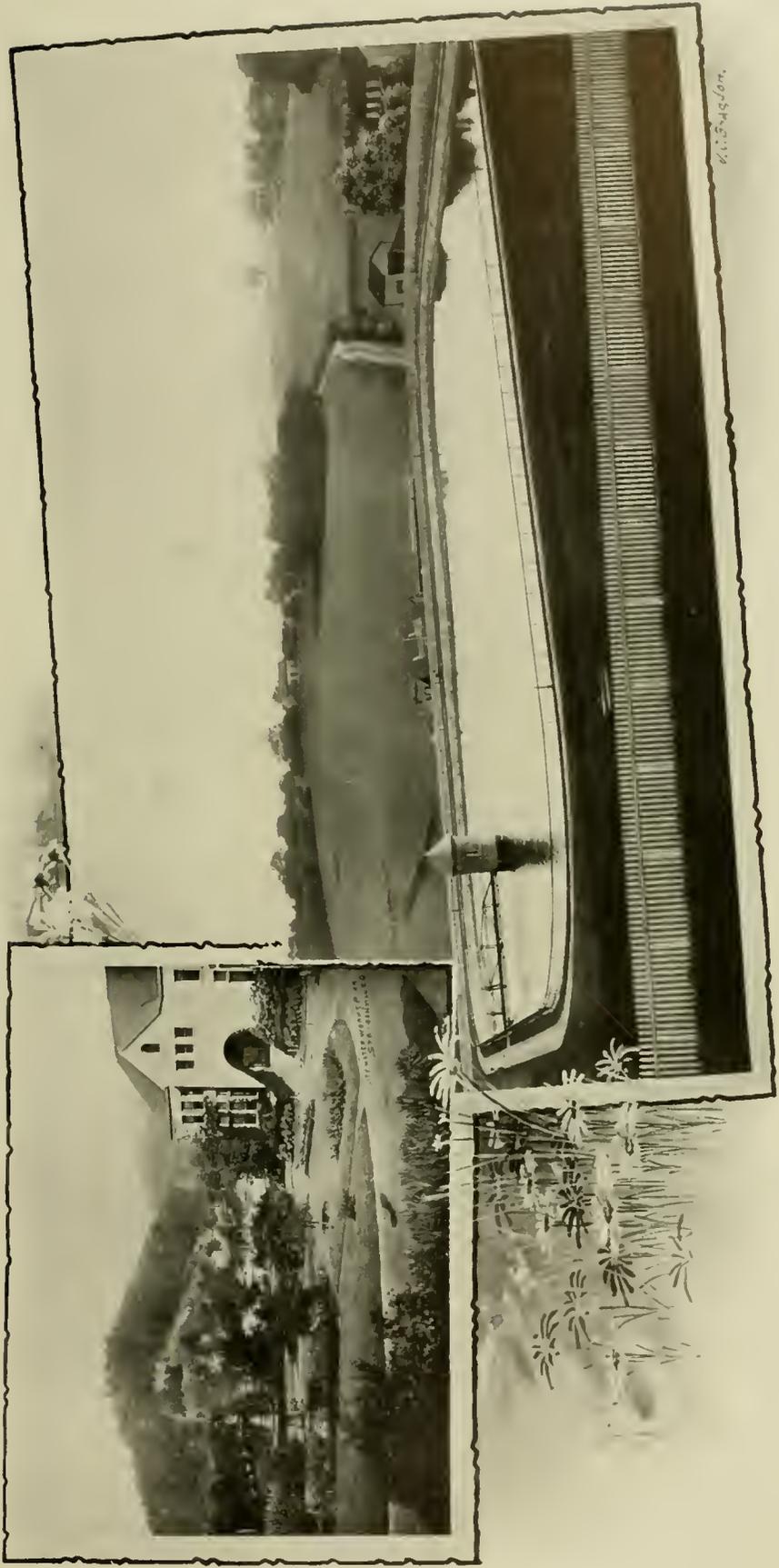
Municipal Building, Steubenville, Ohio



Wells High School, Steubenville, Ohio



The Water Works of Steubenville, Ohio--Built by Floto Bros. under direction of D. J. Sinclair

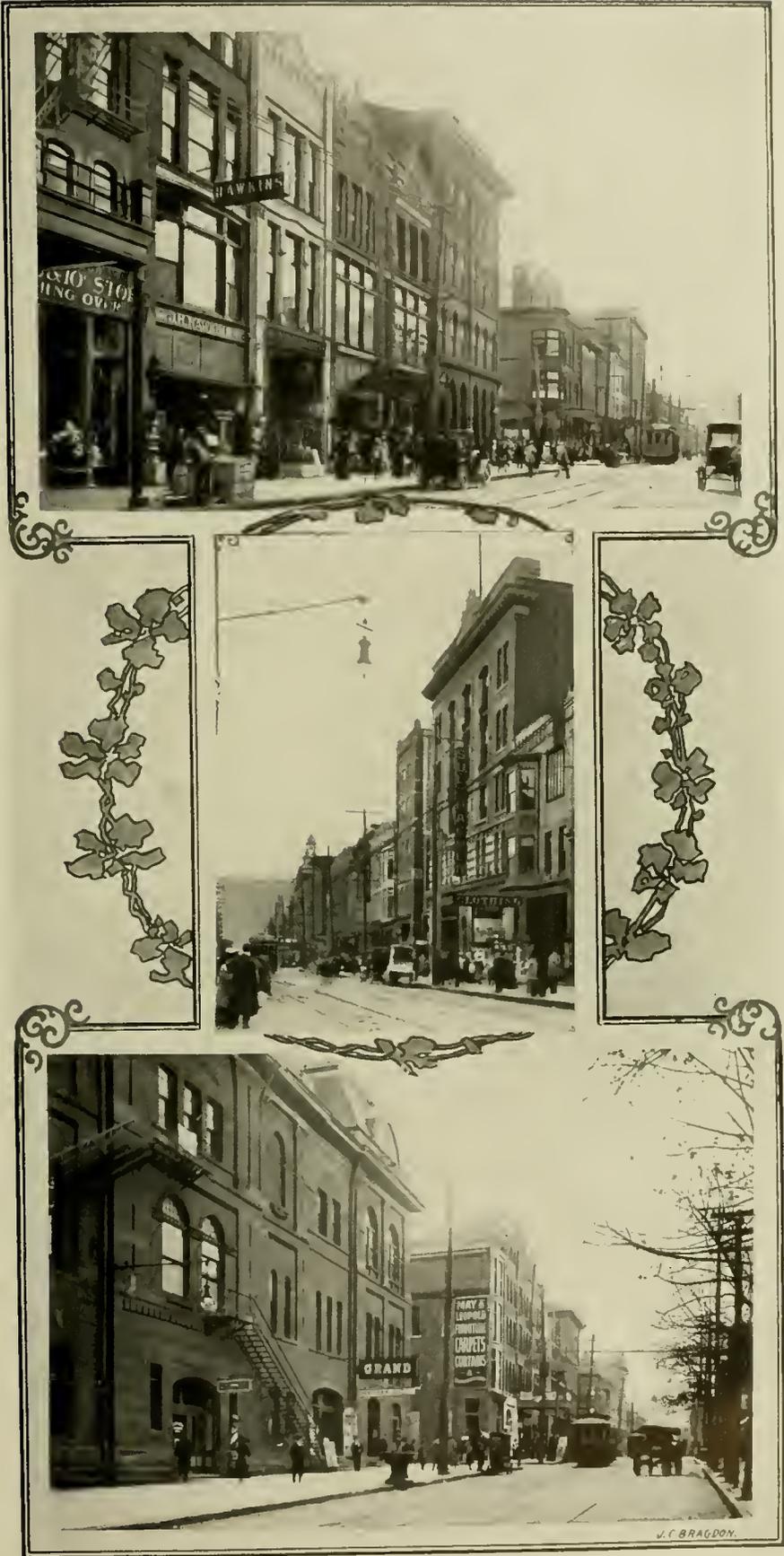


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Steubenville's Water Works showing Reservoir and Park

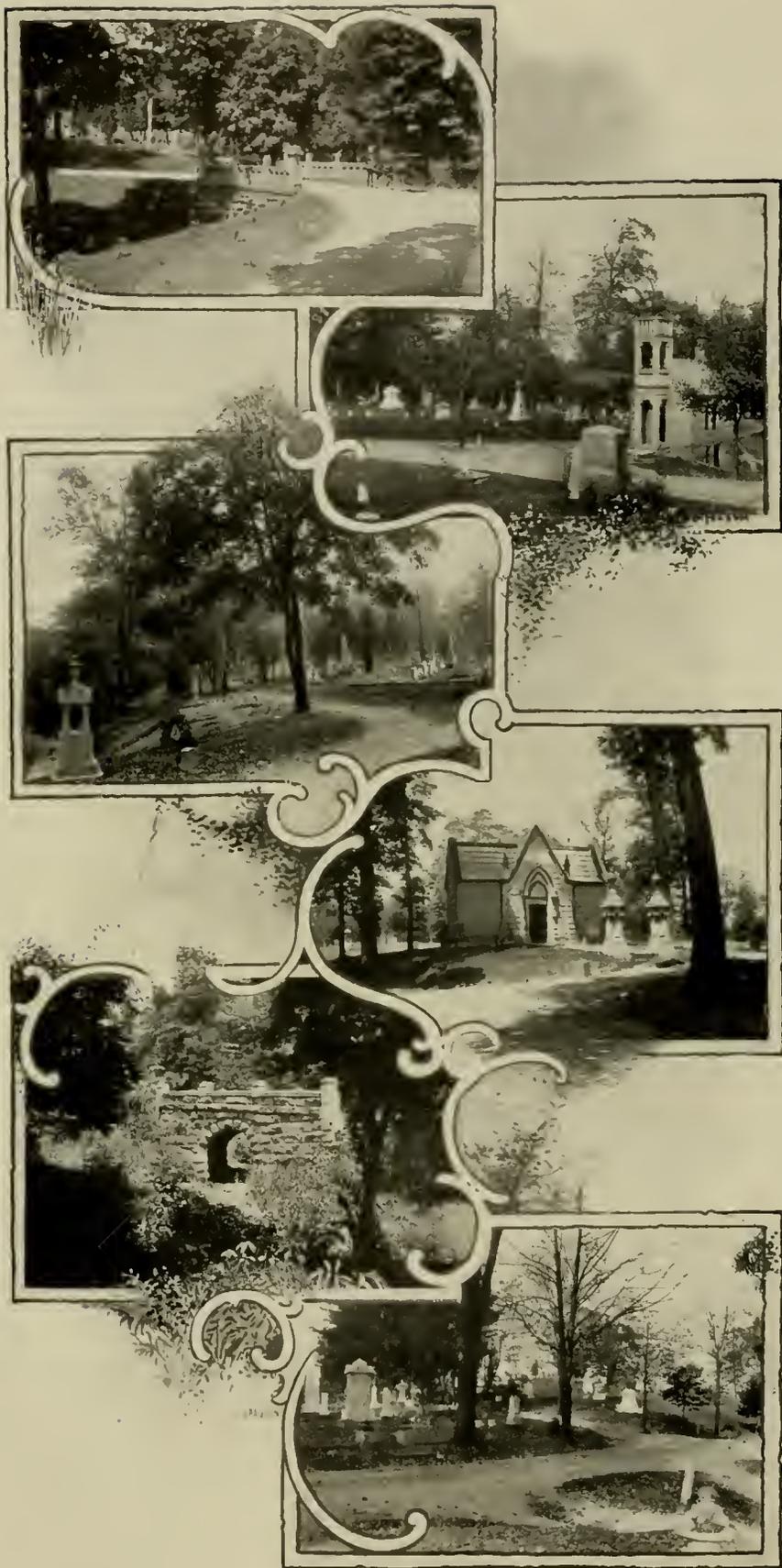


Jefferson County Infirmary



Some Views of the Business Section of Steubenville, Ohio

J. C. BRADDOY.



Union Cemetery, Steubenville, Ohio--Some Views of this Most Beautiful Resting Place



THE CELEBRATED ART STUDIO OF FILSON & SON, STEUBENVILLE, OHIO

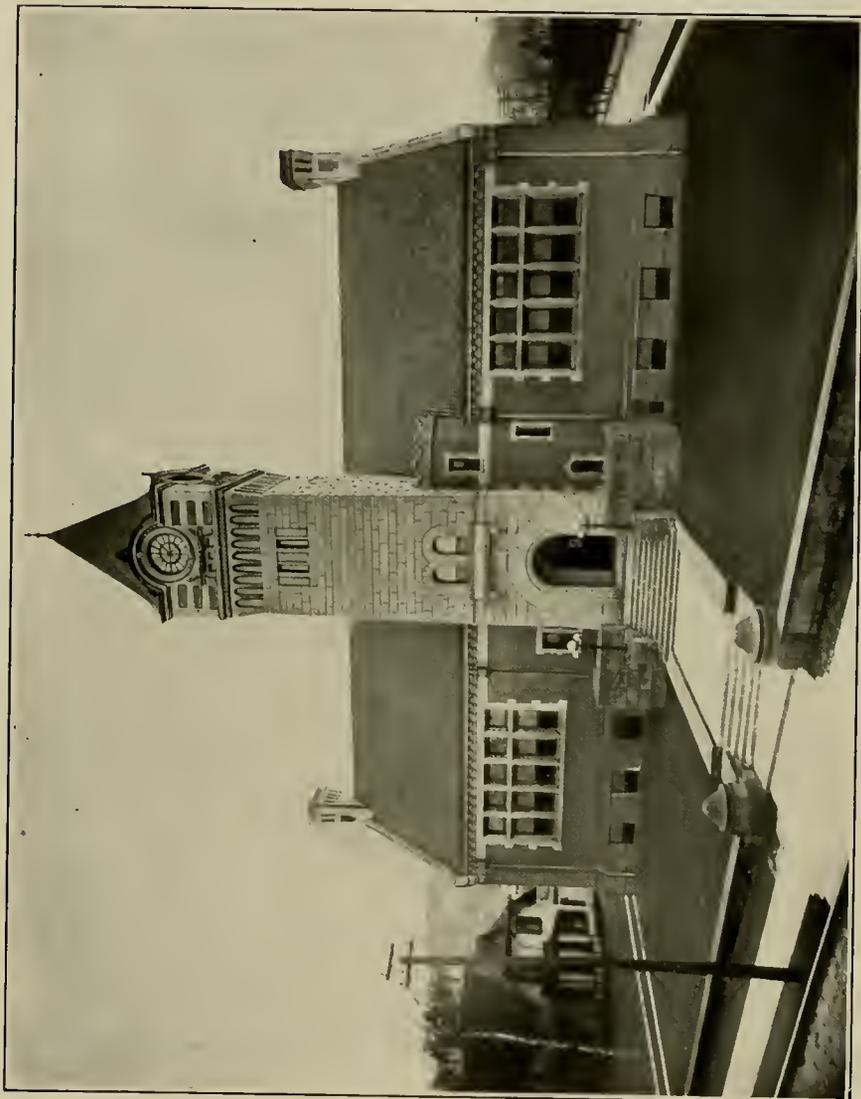
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Carnegie Library, Steubenville, Ohio



THE NEW BRIDGE ON LOWER MARKET STREET, CONNECTING THE CITY OF STEUBENVILLE WITH THE STATE OF WEST VIRGINIA.



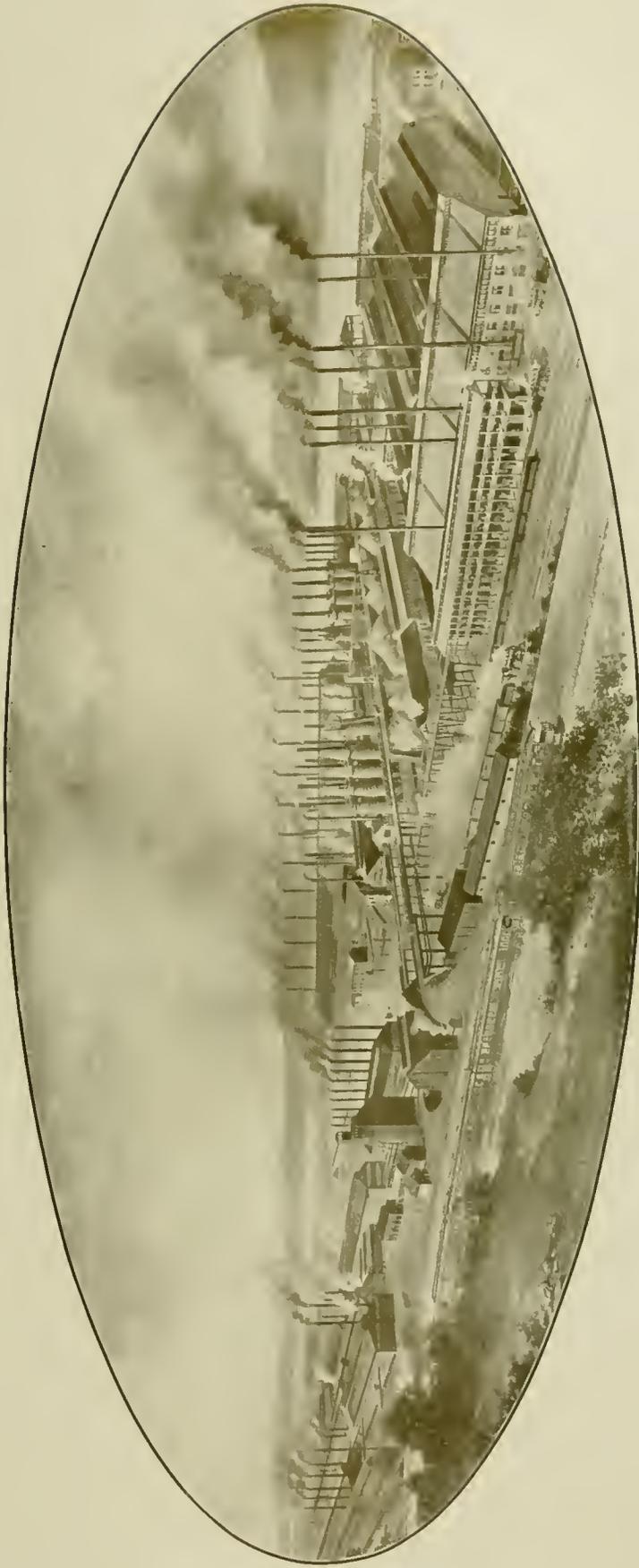
The National Exchange Bank, Steubenville, Ohio



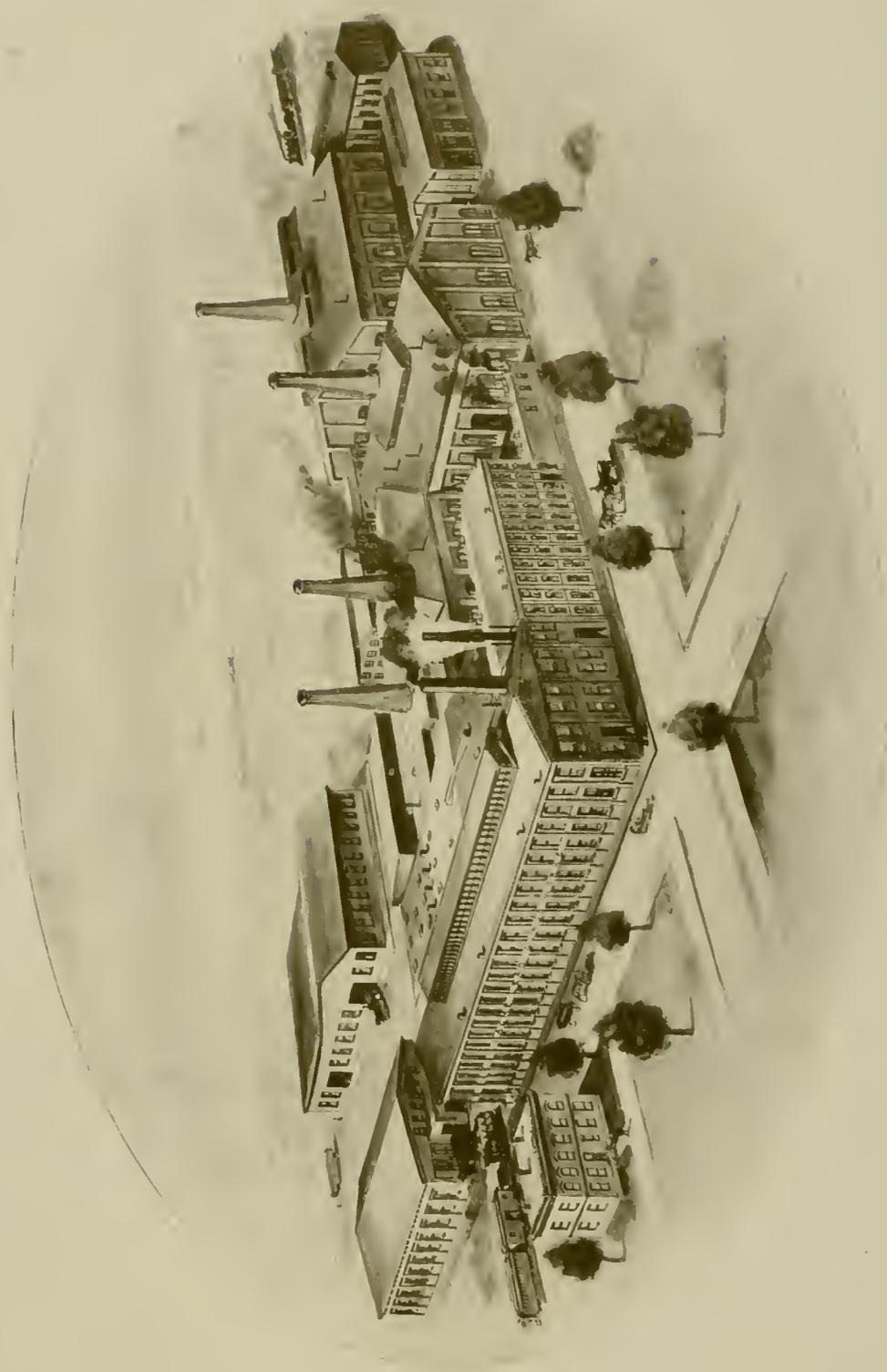
Interior of The National Exchange Bank, Steubenville, Ohio



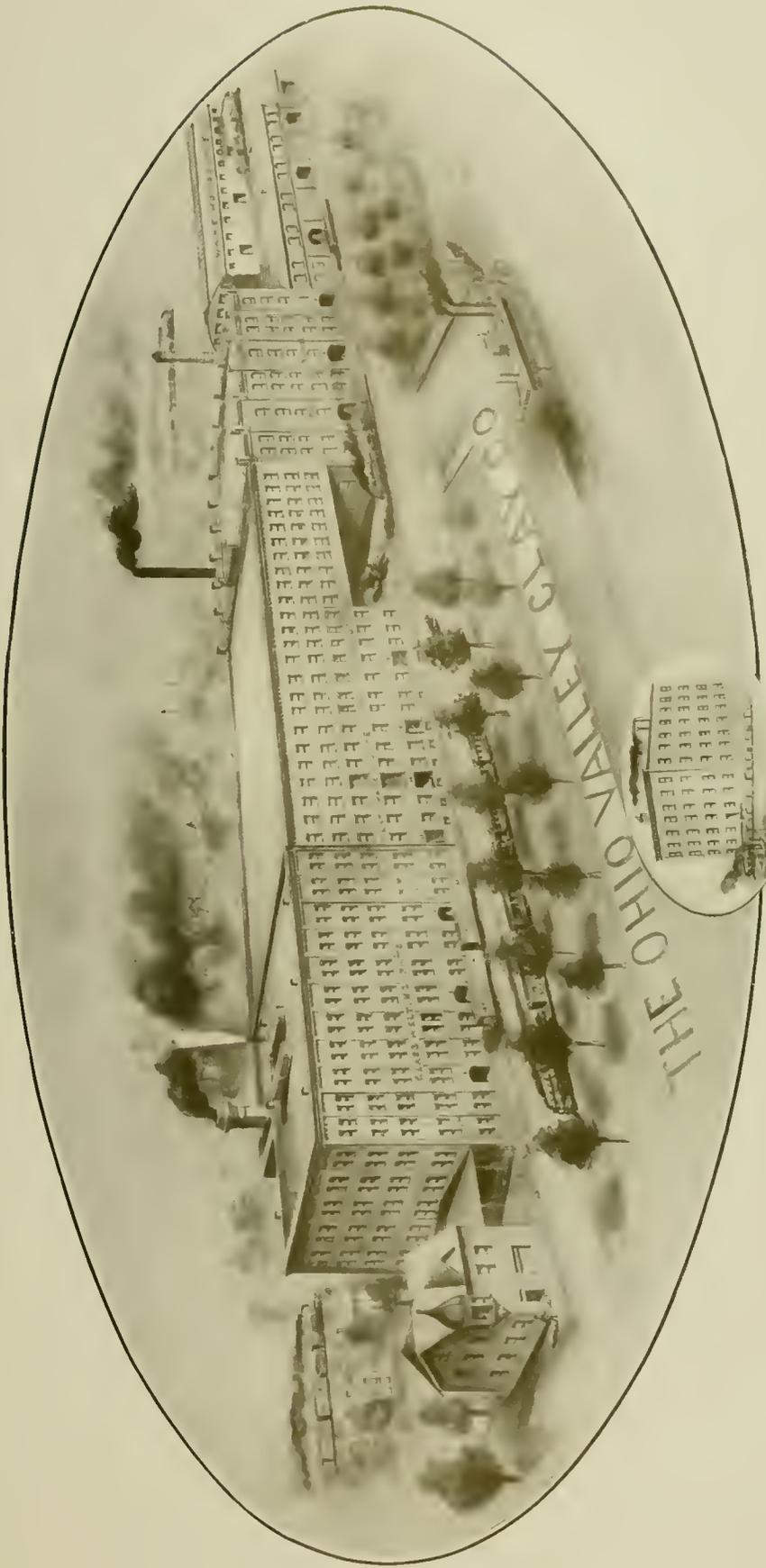
Office Building, La Belle Iron Works, Steubenville, Ohio



La Belle Iron Works, Steubenville, Ohio
"FROM MINE TO MARKET"



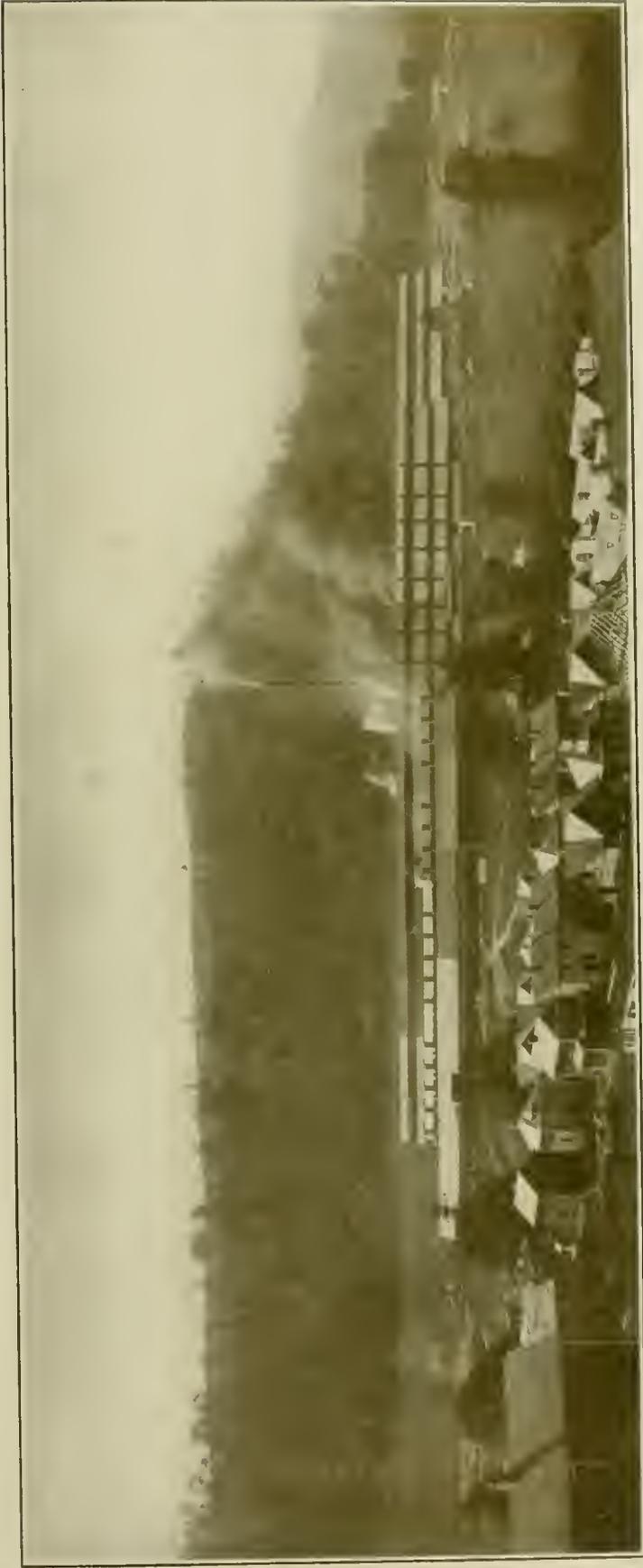
The Acme Glass Works--Gill Brothers Company--Steubenville, Ohio. Every Description of Glassware for Illuminating Purposes



The Ohio Valley Clay Company, Steubenville, Ohio--The Largest Tank Block Factory in America



Follansbee Brothers Company--Open Hearth Tin Plate and Sheet Mills--Follansbee, W. Va.



The Phillips Sheet and Tin Plate Company. Weirton, W. Va.



The McGowan Brothers Company--Wholesale Grocers--Steubenville Store



The McGowan Brothers Company--Wholesale Grocers--Uhrichville Store



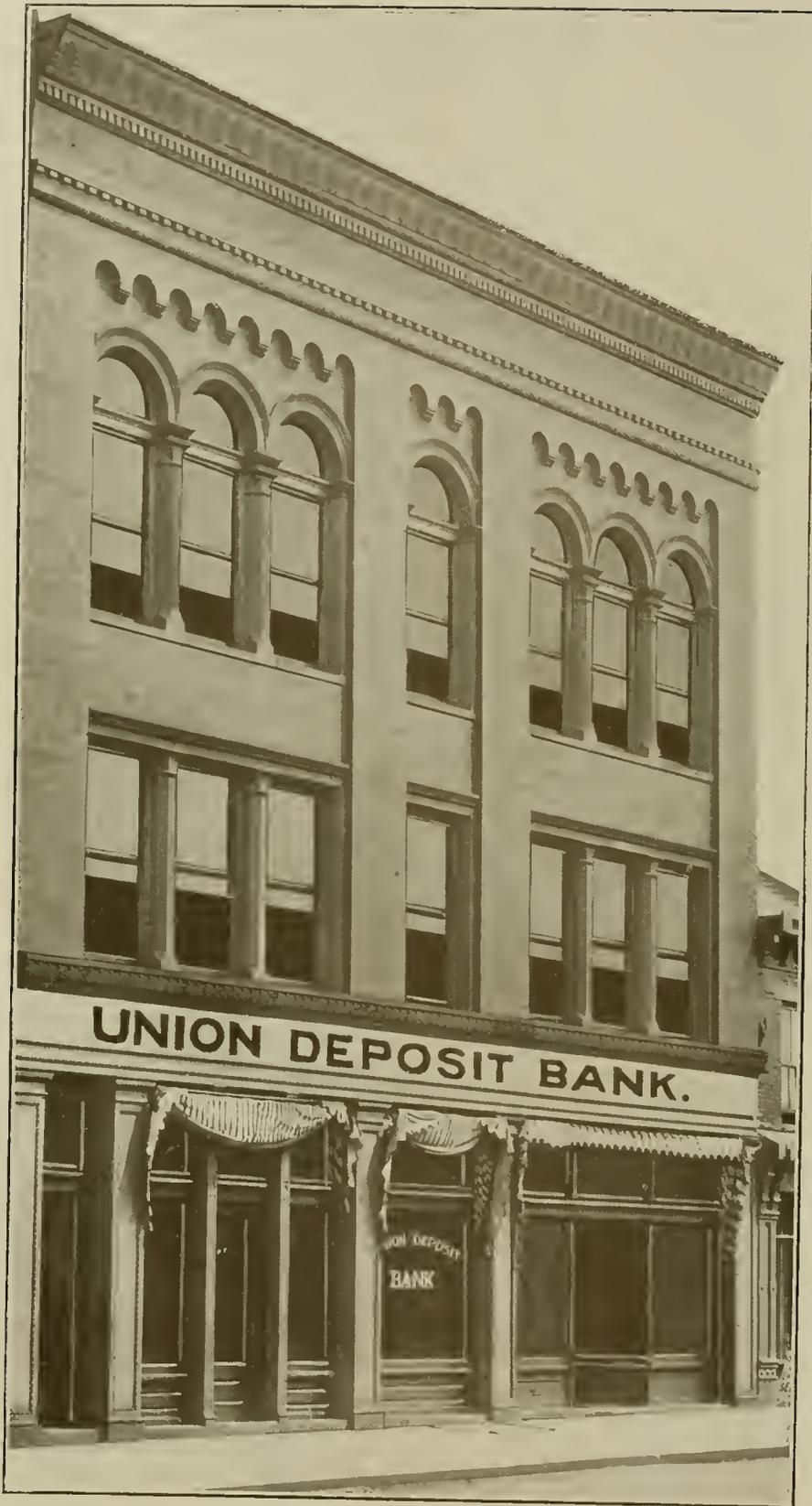
The Imperial Hotel, Carl Mildner, Proprietor, Steubenville, Ohio



Workman's Wagon Works, Jas. Workman & Sons, Proprietors, Steubenville, Ohio



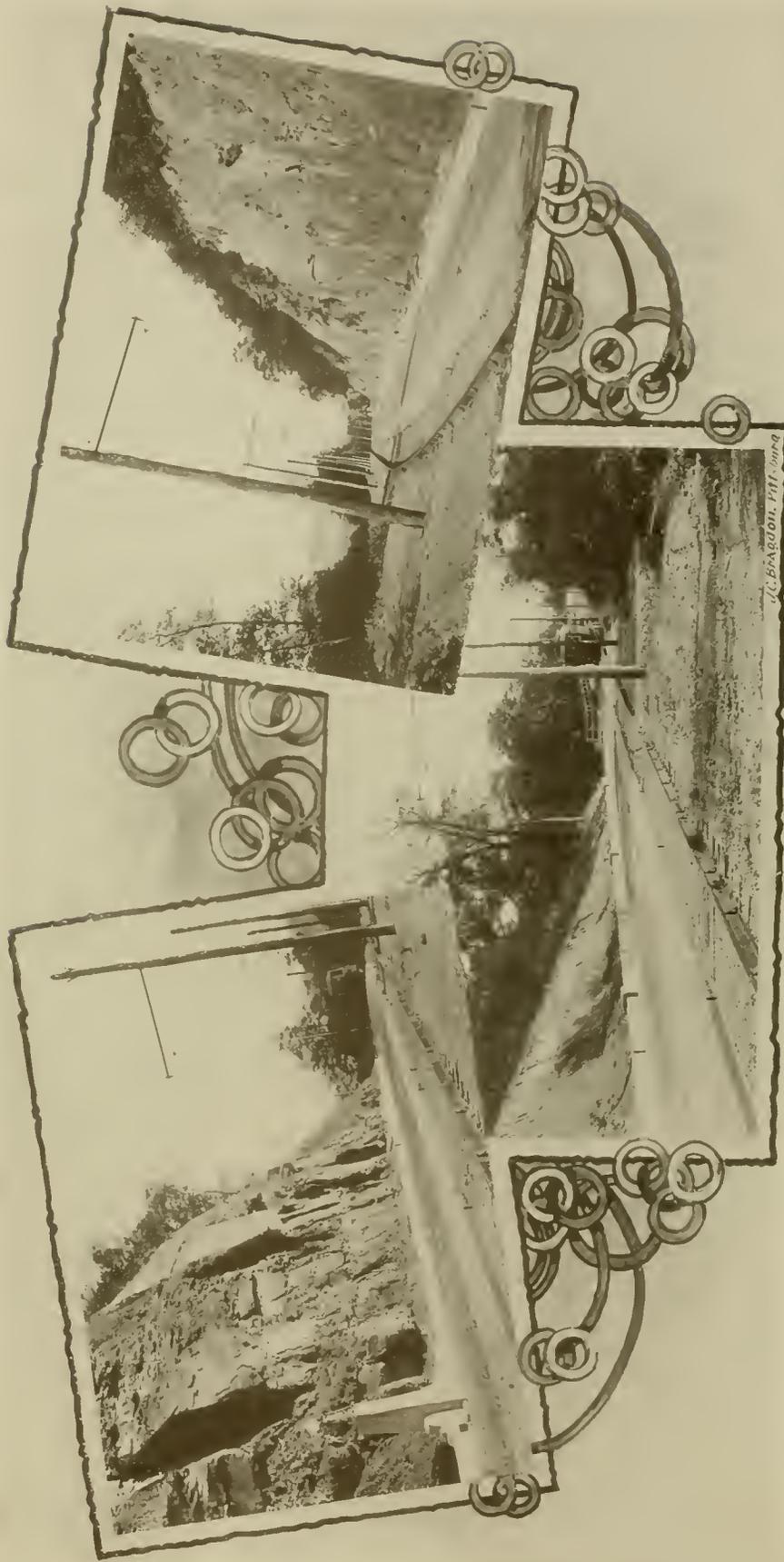
Baron von Steuben Monument, Washington, D. C., Recently Unveiled
 Compliments of the STEUBENVILLE GERMANIA PRESS--Quality Printing



Union Deposit Bank, Steubenville, Ohio
D. J. SINCLAIR, Cashier



Some of the Many Views Along the Line of the Tri-State Traction Company. Steubenville, Ohio



Some of the Many Views Along the Line of the Tri-State Traction Company, Steubenville, Ohio



Interior of Peoples National Bank, Steubenville, Ohio



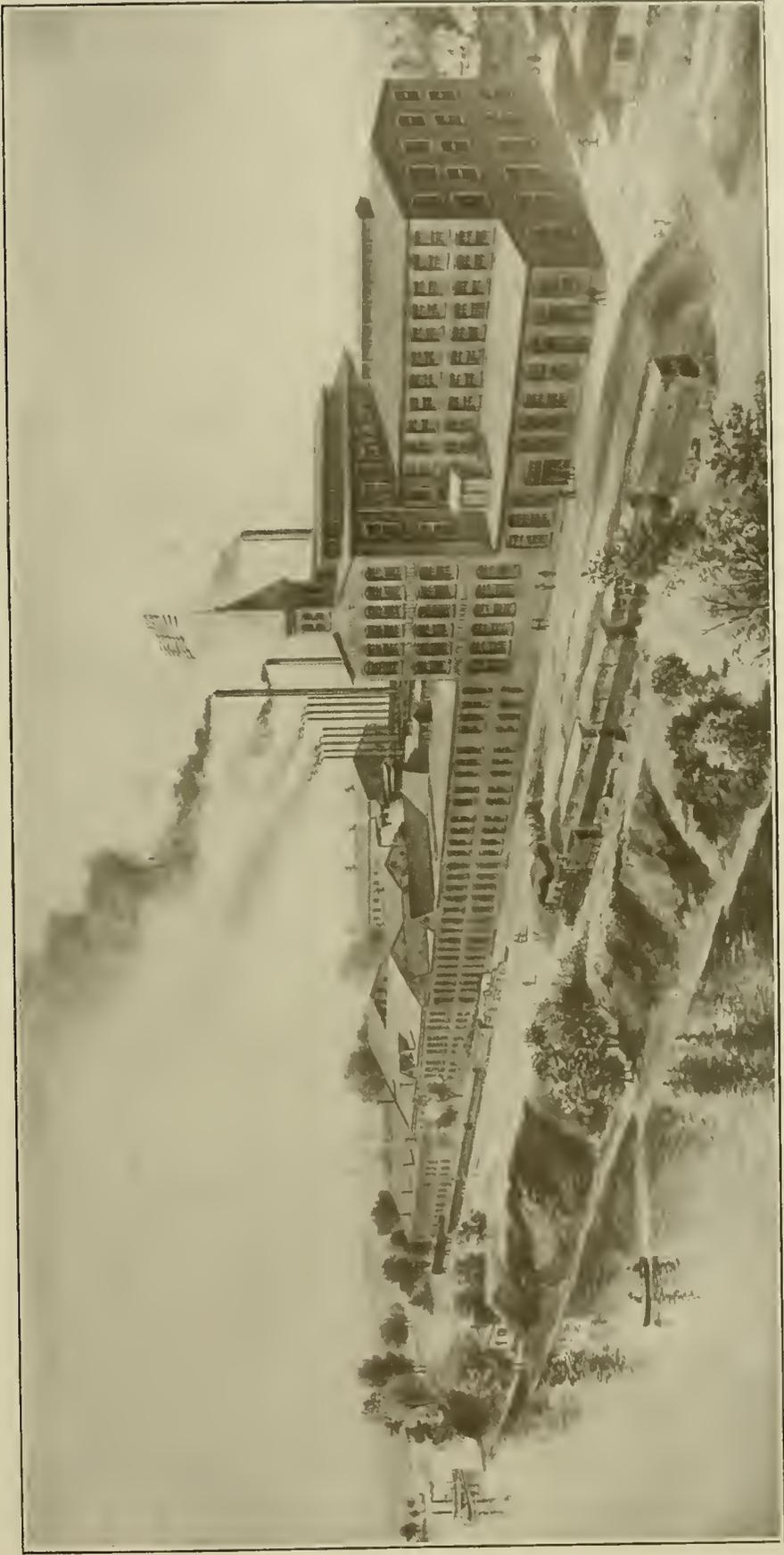
Interior of Lambert Friedl's Bank, Steubenville, Ohio



John Orr's Sons, Wholesale Grocers, Steubenville, Ohio



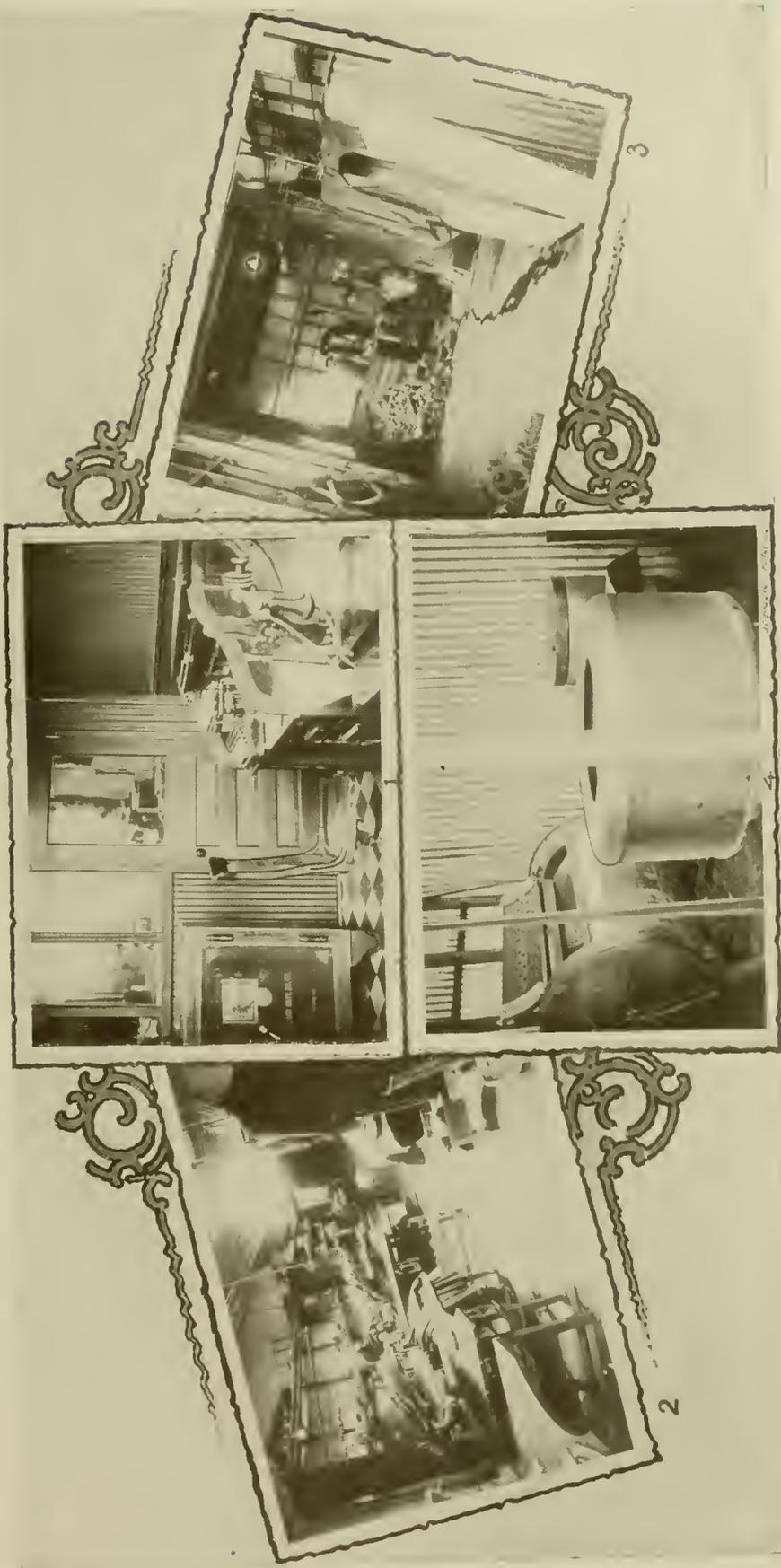
W. S. Walker, Wholesale Notions, Steubenville, Ohio



Hartje Paper Manufacturing Company, Steubenville, Ohio



Stanton Park, the Popular Amusement Resort, Steubenville, Ohio



American Dyeing & Cleaning Company, Steubenville, Ohio, C. J. Kenny, Proprietor



The Jefferson Glass Company, Follansbee, West Virginia



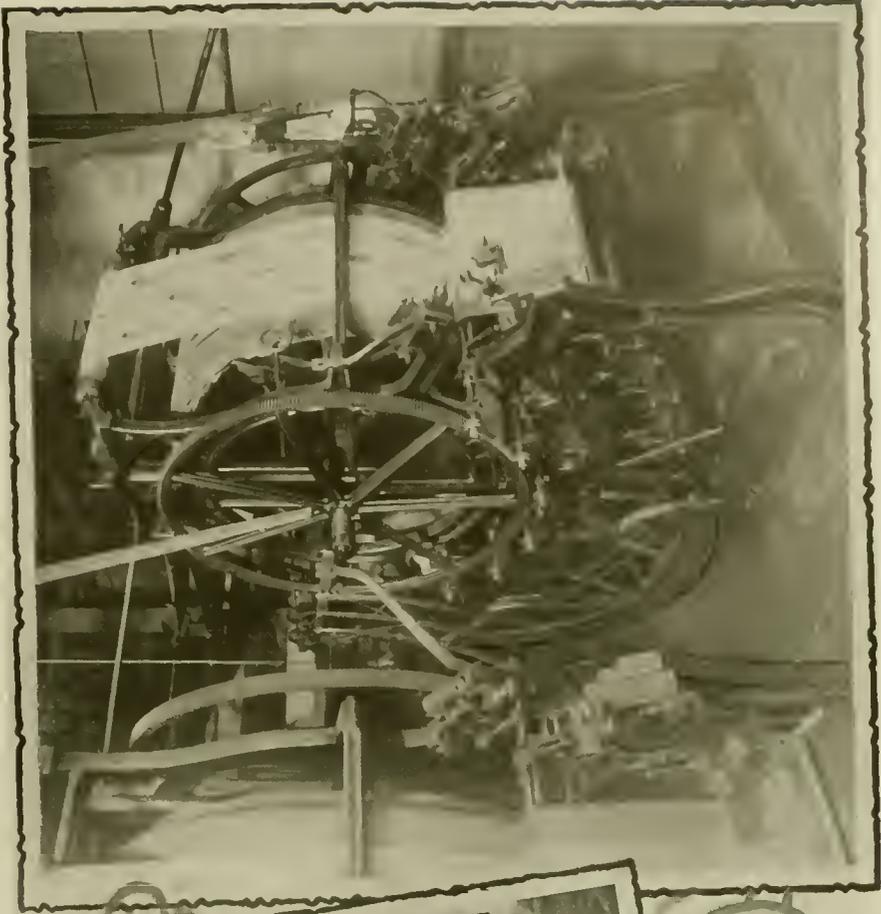
Wm. A. Forstrom's Residence The Reliance Engine House Holy Name Parish House
Stone and Cement Work Done by The Steubenville Stone Company, Steubenville, Ohio



The Denger Studio--Irwin & Martin, Proprietors--Steubenville, Ohio



Interior of J. C. Cope's Drug Store, Steubenville, Ohio



Printing Wall Paper at the Plant of Chicago Wall Paper Company, Steubenville, Ohio



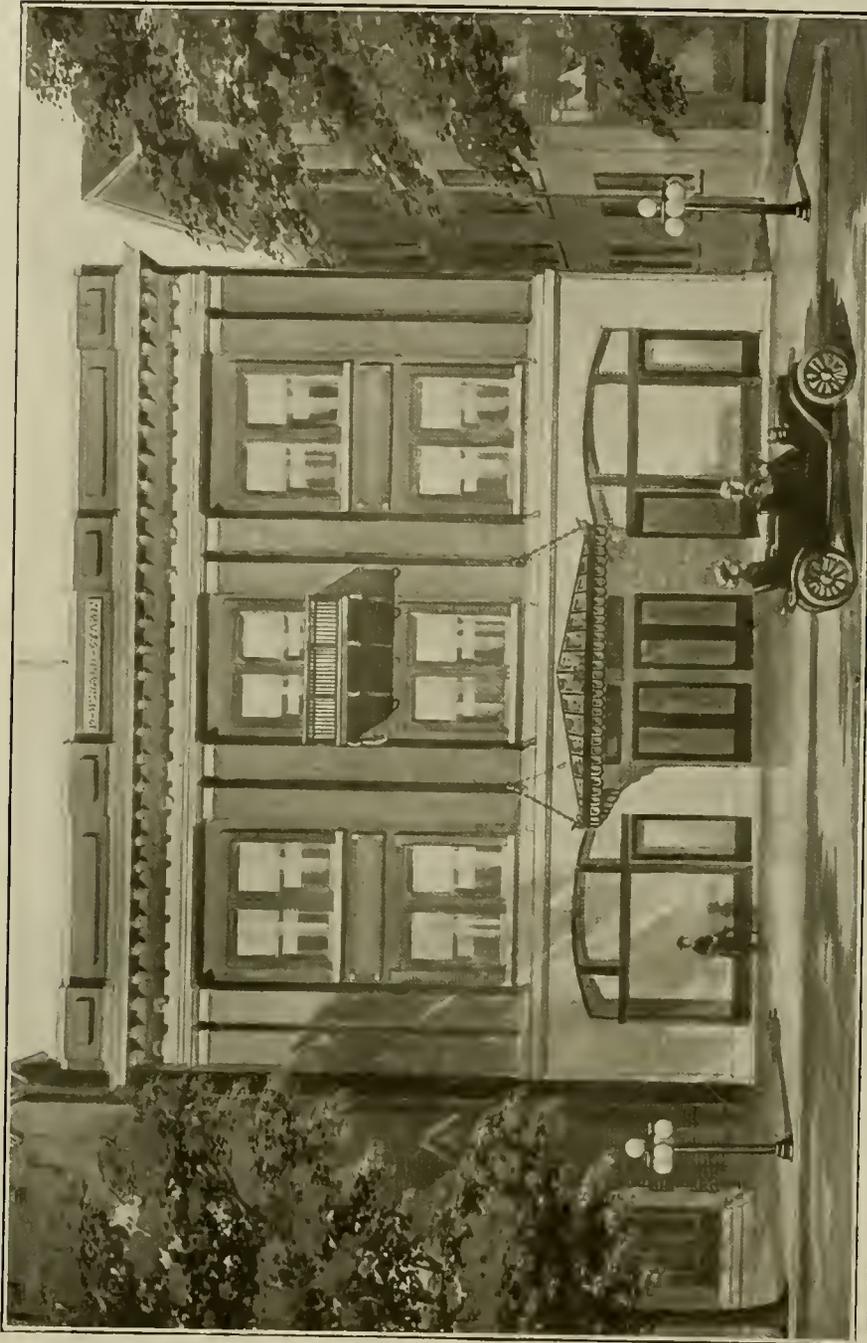
GEO. B. HUFF
City Editor



C. C. WHITE
Court



MRS. IDA A. MEANS
Social



The New Home of the Steubenville Herald-Star, Ohio's Oldest Newspaper. One of the handsomest and best appointed newspaper and theatre buildings in the State. The Herald-Star claims the largest circulation of any newspaper in the United States published in a city the size of Steubenville



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Manager-Editor



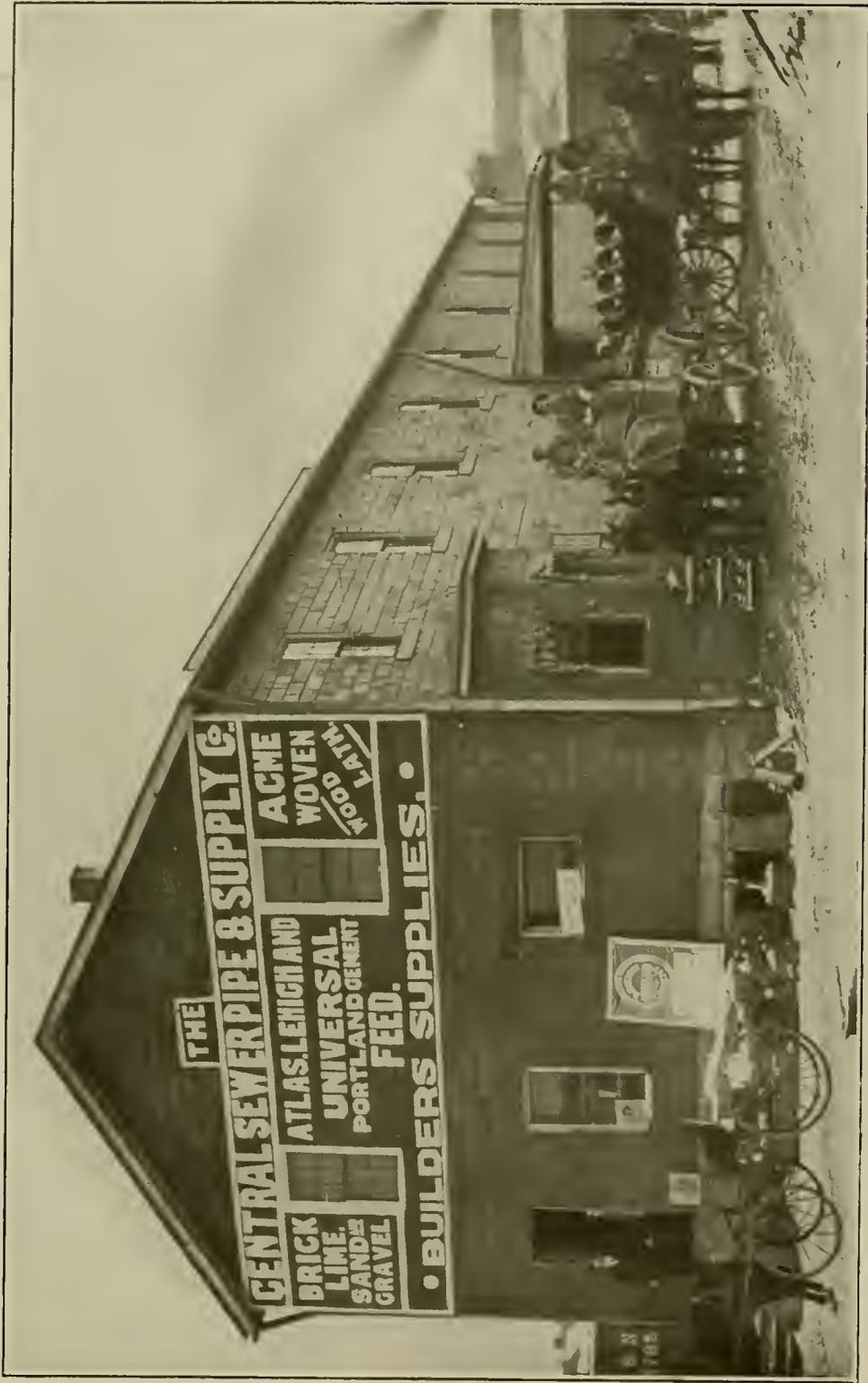
H. W. NICHOLS
Secretary-Treasurer



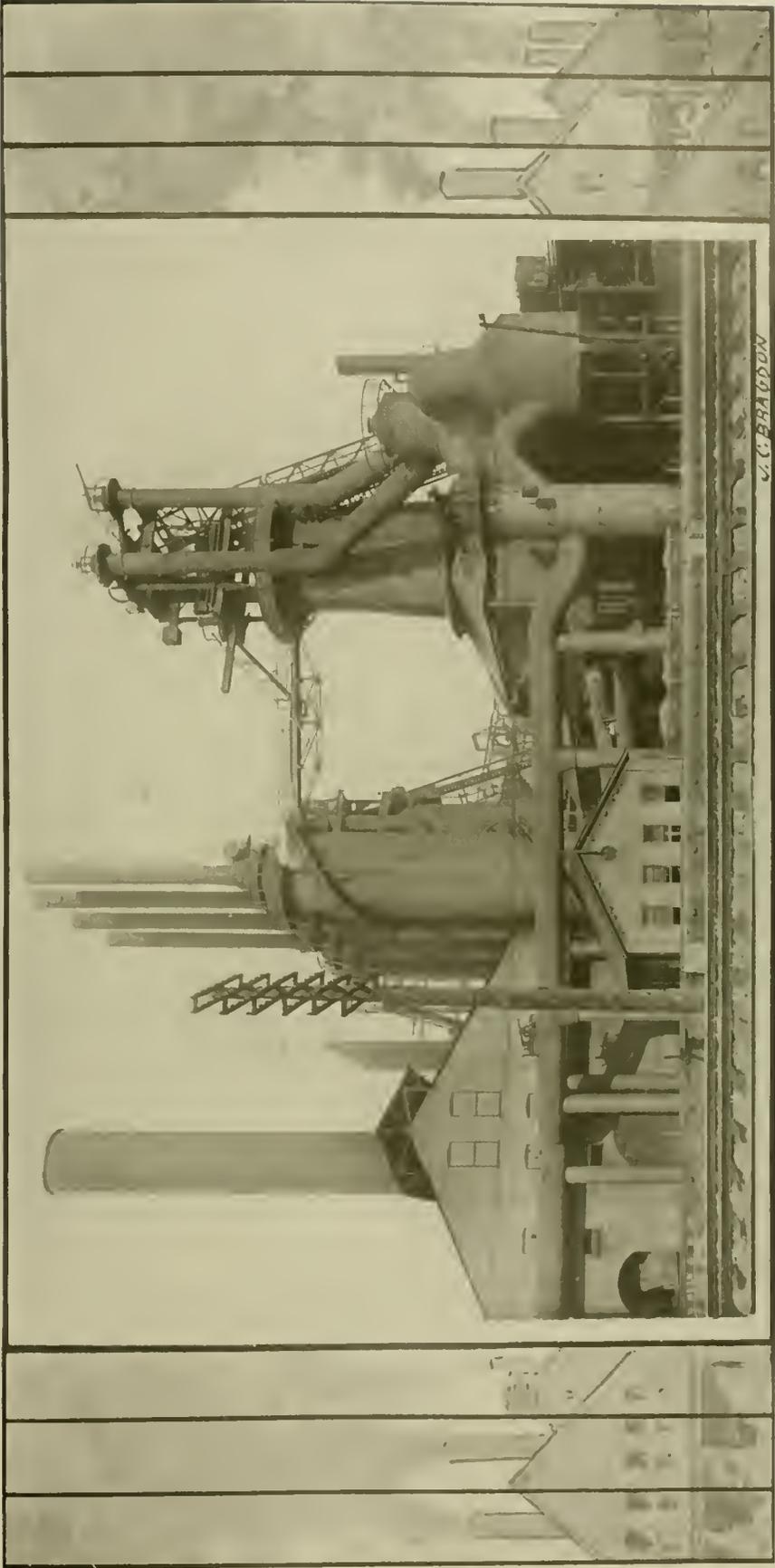
EDW. WORSTOLL
Sports-Suburban



The Steubenville Gazette Company
Publishers of the Daily and Weekly Gazette

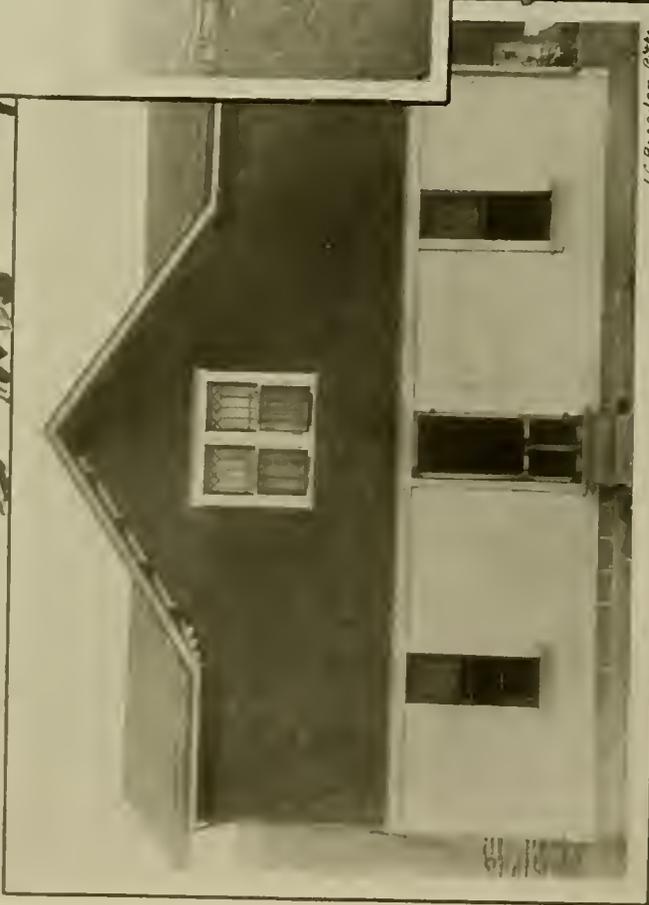


The Central Sewer Pipe and Supply Co., Cor. Washington Street and Pan Handle Railroad, Steubenville, Ohio



One of the Million Dollar Furnaces of the Carnegie Steel Company's Mills, at Mingo Junction, Ohio

V. C. BRADEN

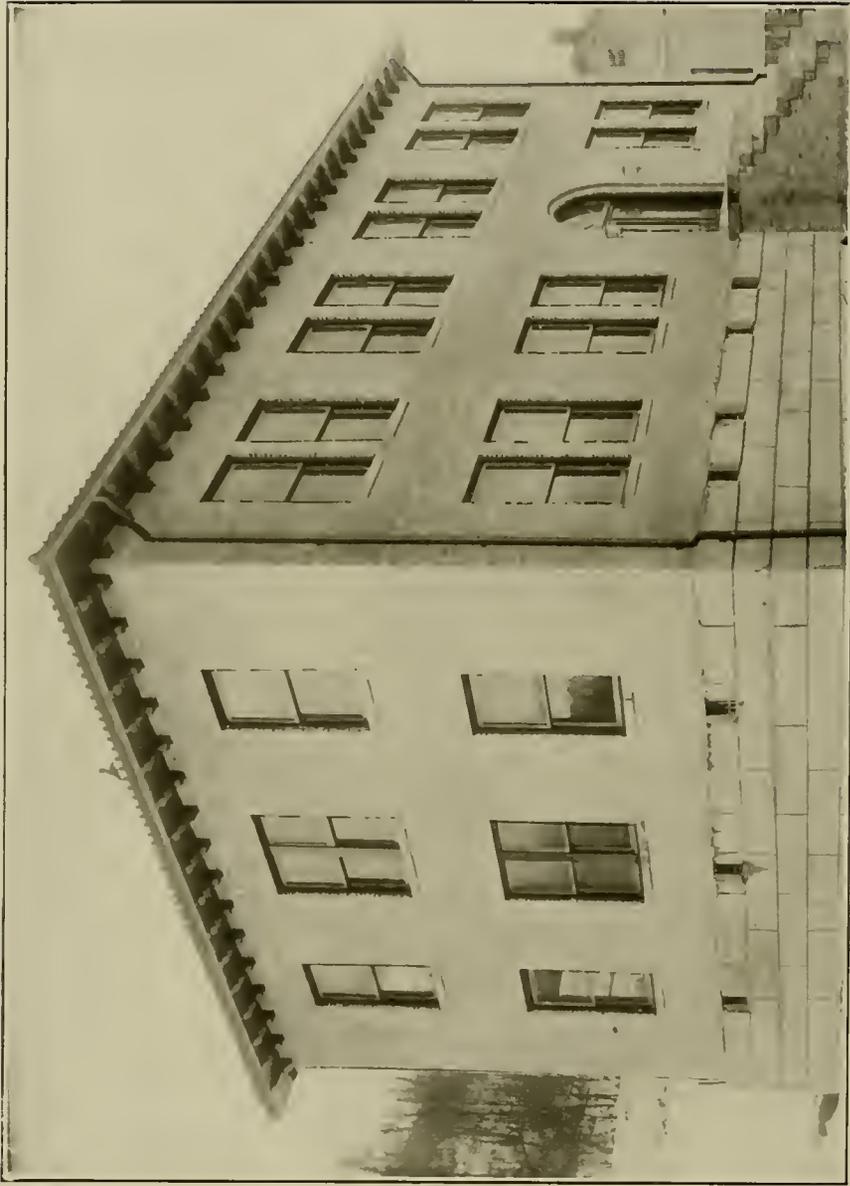


L. C. Bhargava 1911.

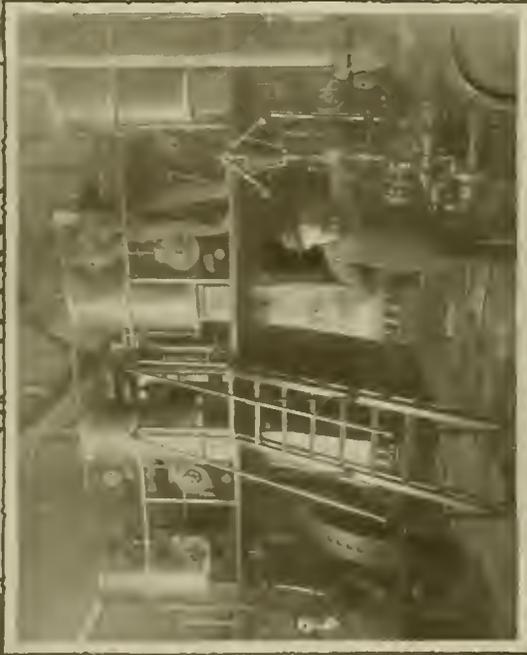
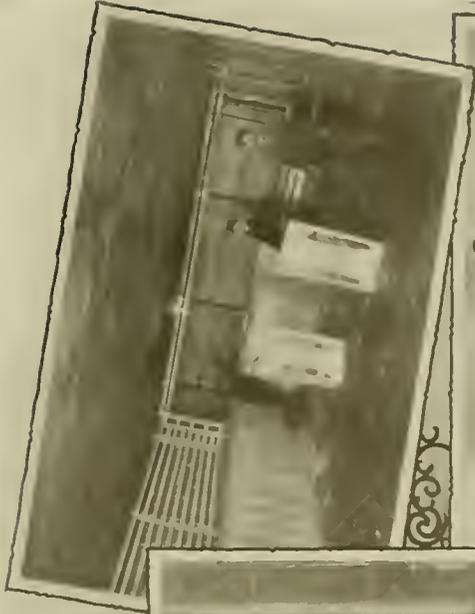
Office and Plant of Cattrell Brothers Company, Weirton, W. Va.
This Company constructed more than 250 buildings in Weirton within the past year.



View of the New Follansbee Water and Light Company's Plant.--C. B. Crawford, Leading Spirit in its Construction



Office of the Phillips Sheet and Tin Plate Company, Weirton, W. Va.



Stenbenville Ice Company, North Third Street, Stenbenville, Ohio



Gill Hospital--Hamline Church--Sinclair Garage and Bridges

Built by Floto Brothers Construction Company, Steubenville, Ohio, Contractors and Builders
of Stone and Concrete Work

The stone and concrete work of the Herald-Star and LaBelle Office Buildings, the Grand View Residence of Geo. N. Henry, and bridges shown in Union Cemetery, on other pages of this Souvenir, are products of this Company



Morelli & Company, Foreign Bankers, Steamship Agents and Real Estate Dealers, Steubenville, Ohio



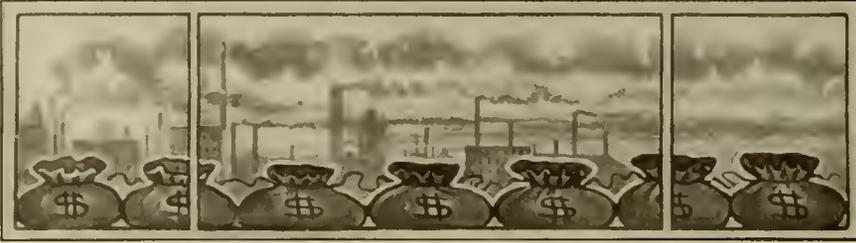
R. J. Irwin, Founder and Machinist, 618 Adams Street, Steubenville, Ohio



The Weirton Pharmacy
Weirton, W. Va.



L. Lowmiller, General Merchandise
Weirton, W. Va.



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COLLEGE OFFICE. (From Photograph)
STEUBENVILLE BUSINESS COLLEGE



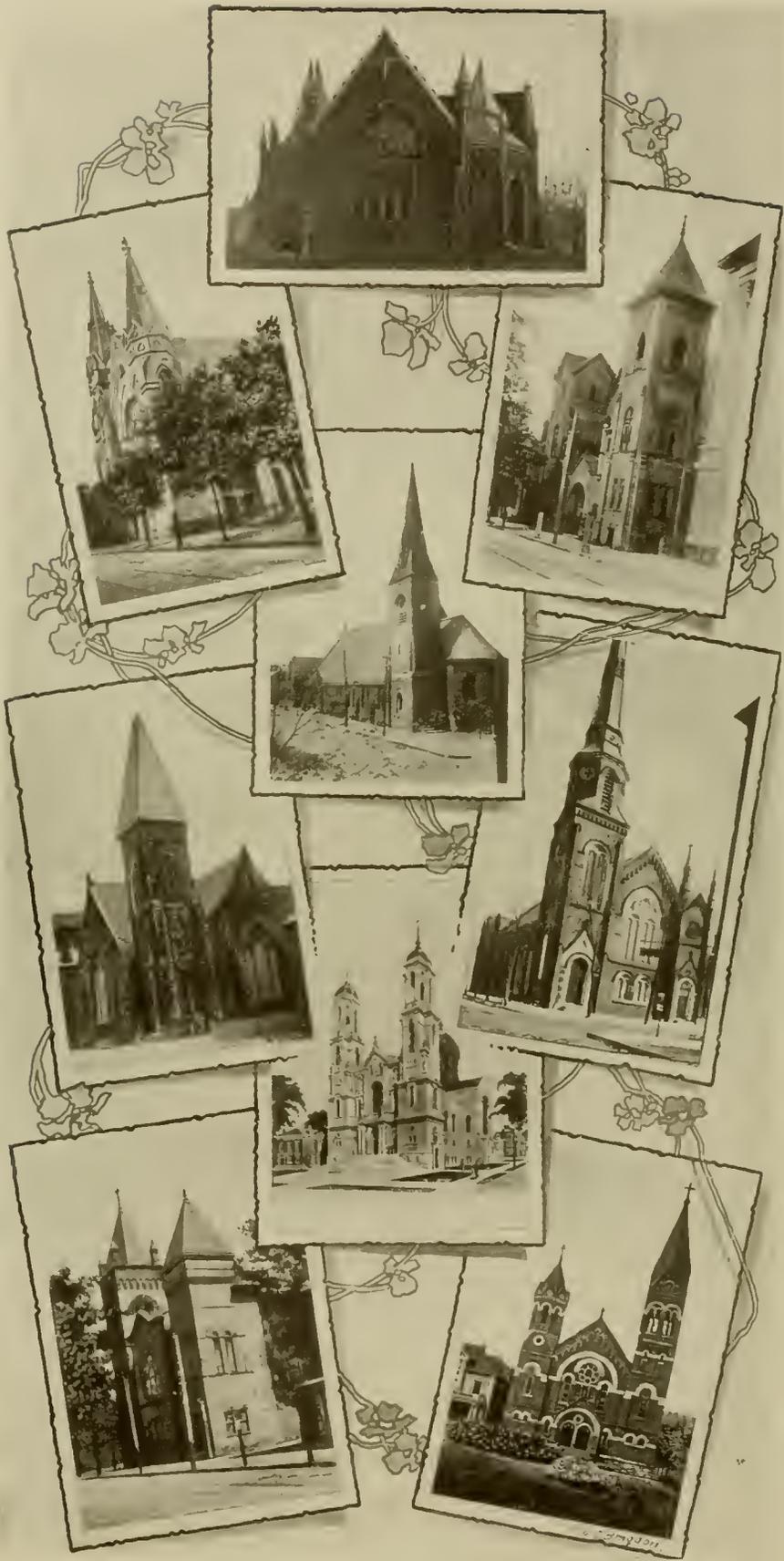
The Johnston-Carter Company, Hardware and Supplies, Follansbee, W. Va.



The Dougherty Block, Corner Third and Market Streets, Steubenville, Ohio



The Steubenville Pure Milk Company, Wholesale and Retail, Pasteurized Milk and Cream
Steubenville, Ohio



A Group of Steubenville's Many Handsome Church Edifices



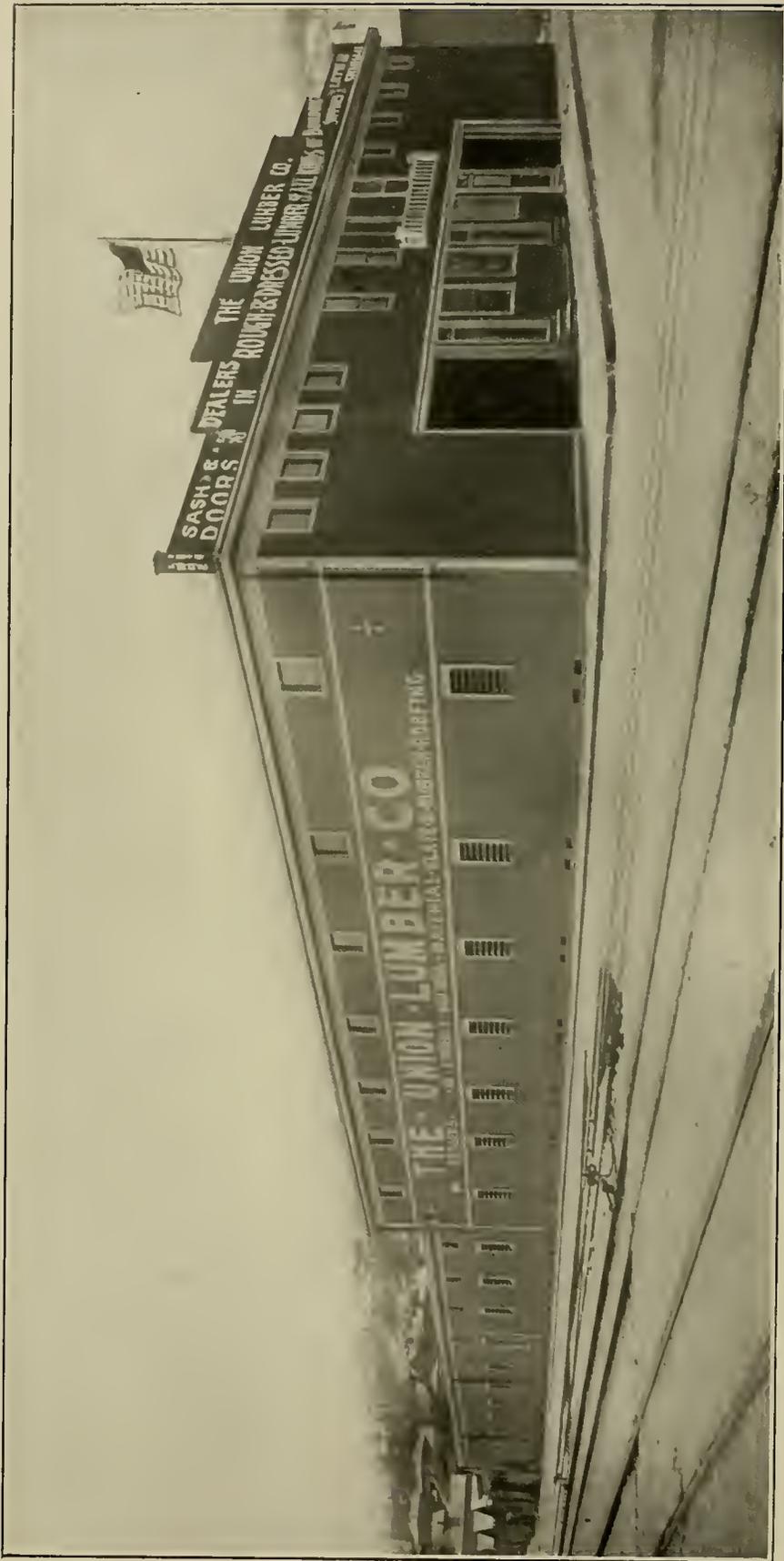
The Steubenville Transfer & Storage Company--J. C. Alexander, Mgr.--171-173 South Fourth Street, Steubenville, Ohio



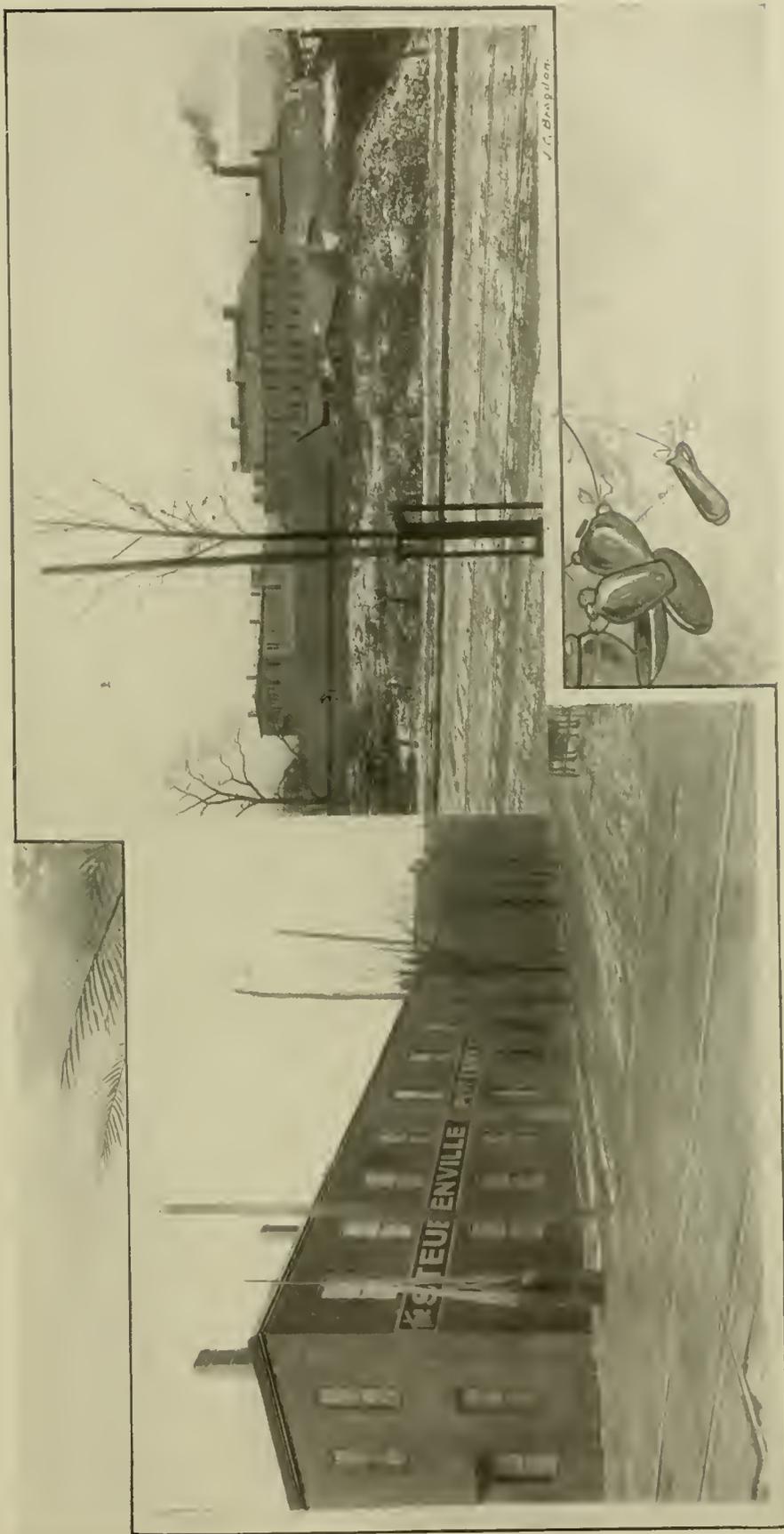
Pope Tin Plate Company, Steubenville, Ohio



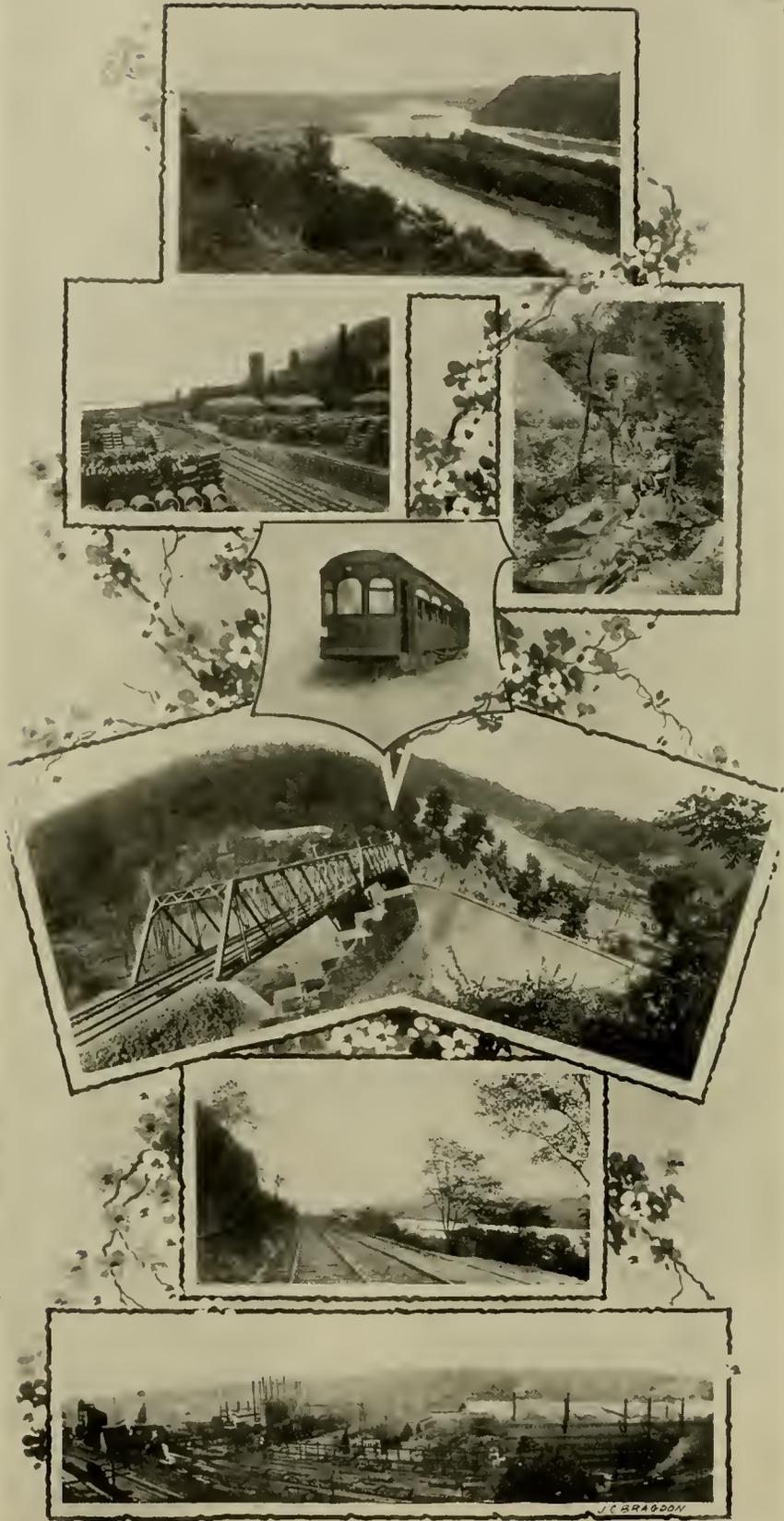
Steubenville Transfer and Storage Co.
J. C. Alexander, Mgr.
171-173 South Fourth Street, Steubenville, Ohio
Our Ability is Your Security



The Union Lumber Company, Cor. Slack Street and Pan Handle Railroad, Steubenville, Ohio



The Steubenville Pottery Company--H. D. Wintringer, President--Manufacturers of Semi-Vitreous China, Steubenville, Ohio



Views along the Ohio Valley Scenic Route

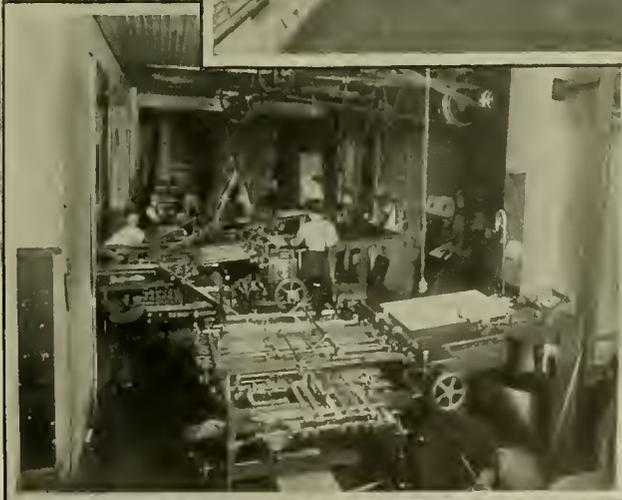
J. C. BRADDOY



Views along the Ohio Valley Scenic Route



Plant of the East Ohio Sewer Pipe Company, Irondale, Ohio--F. W. O'Wesney, Secretary and Treasurer

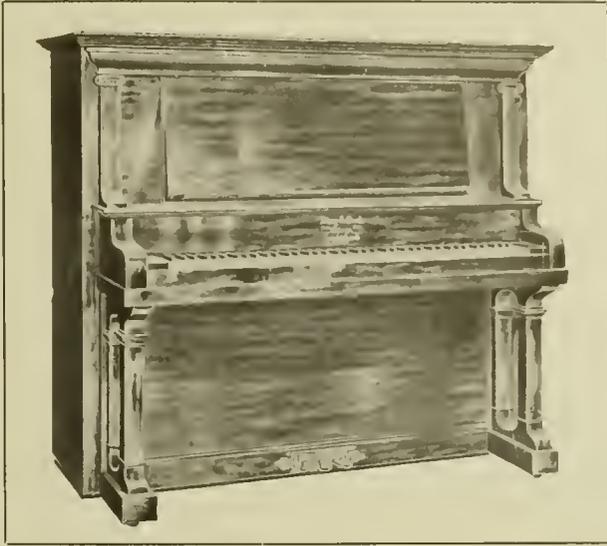


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Steubenville, Ohio



Stewart Piano Company, 526 Market Street, Steubenville, Ohio
This Building was the Birthplace of Edwin M. Stanton

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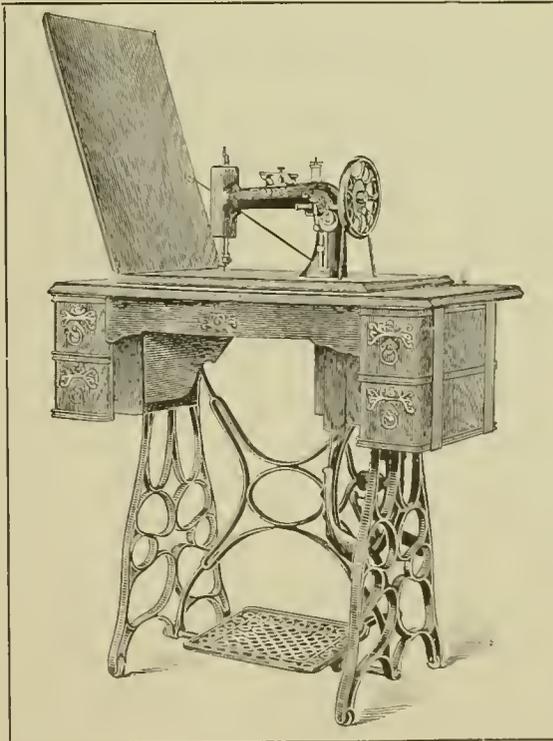
Pianos Player Pianos
Stewart Piano Co.

526 Market Street

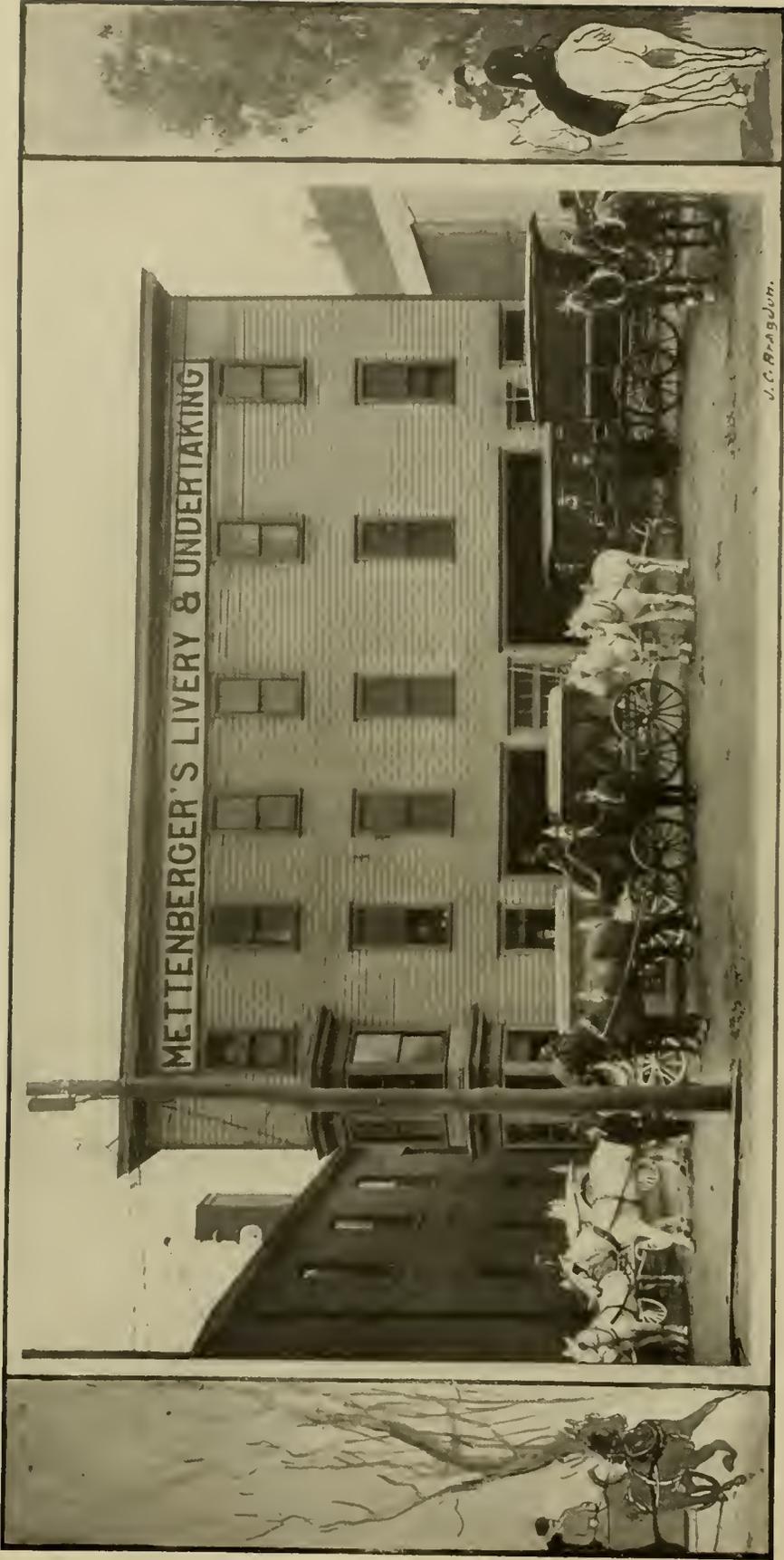
STEUBENVILLE, OHIO

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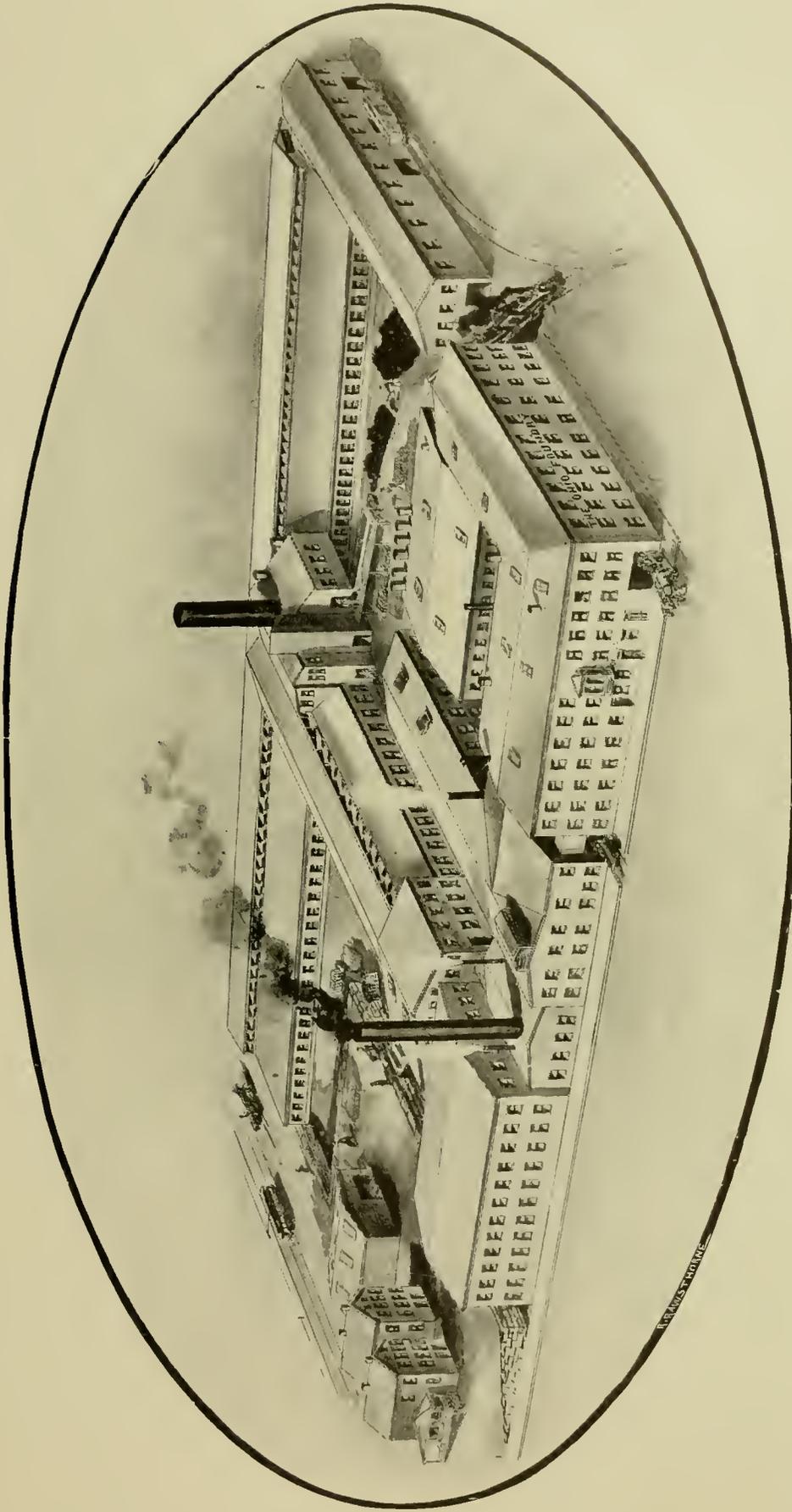


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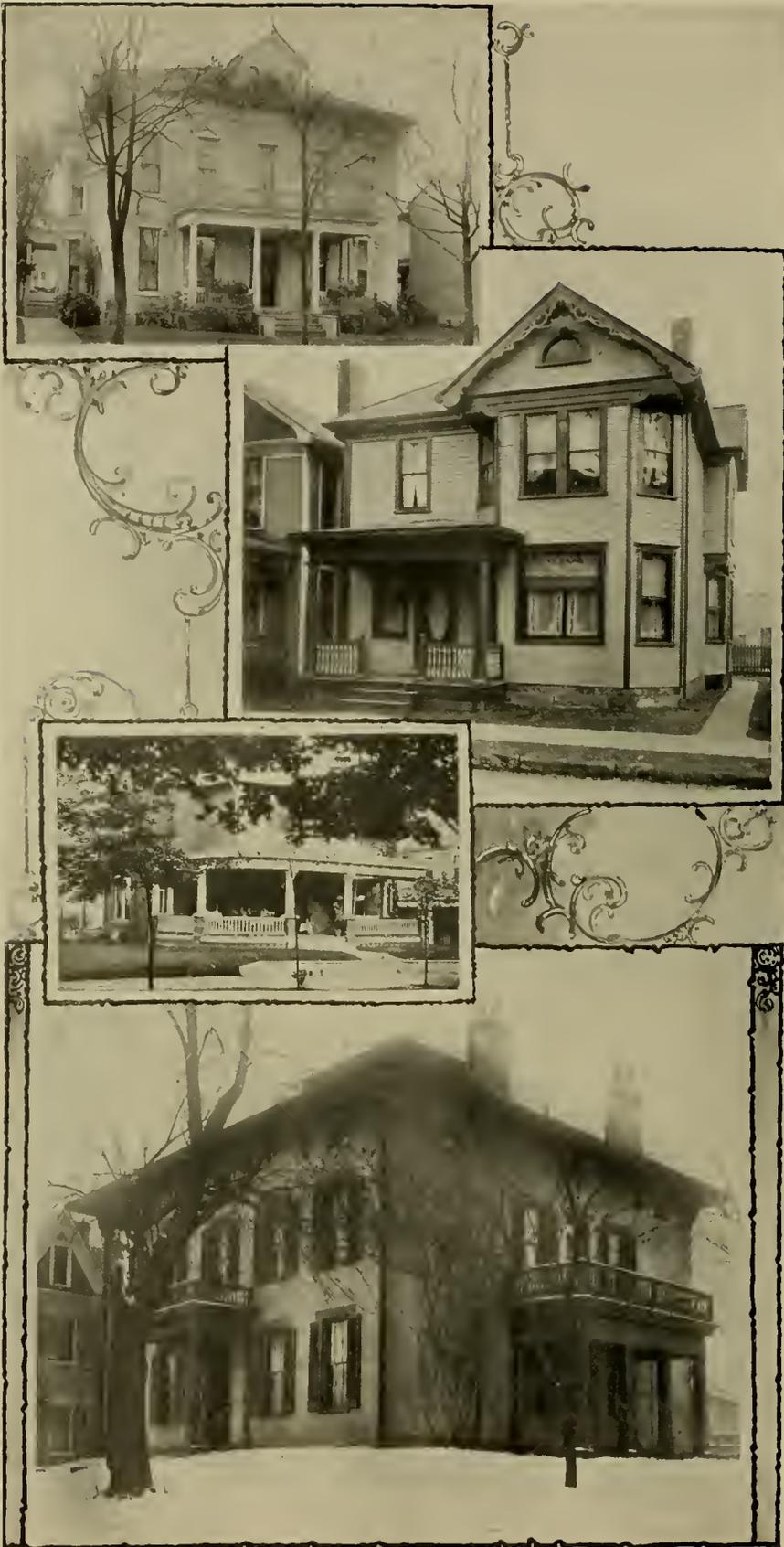


J. C. BRADGUM.

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Commercial National Bank, Steubenville, Ohio



Mayor's Office, Steubenville, Ohio

MARTIN J. LARKIN, Chief of Police

THOMAS W. PORTER, Mayor

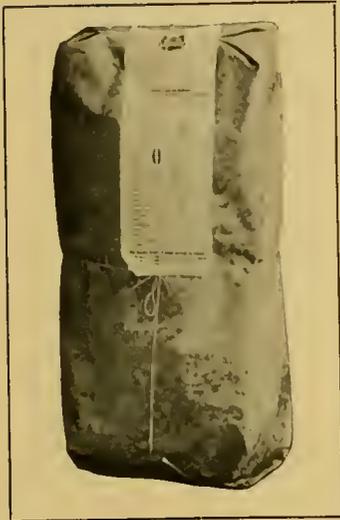


Grandview Residence of Geo. N. Henry



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MASONS
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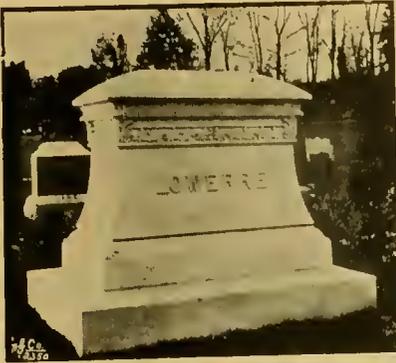
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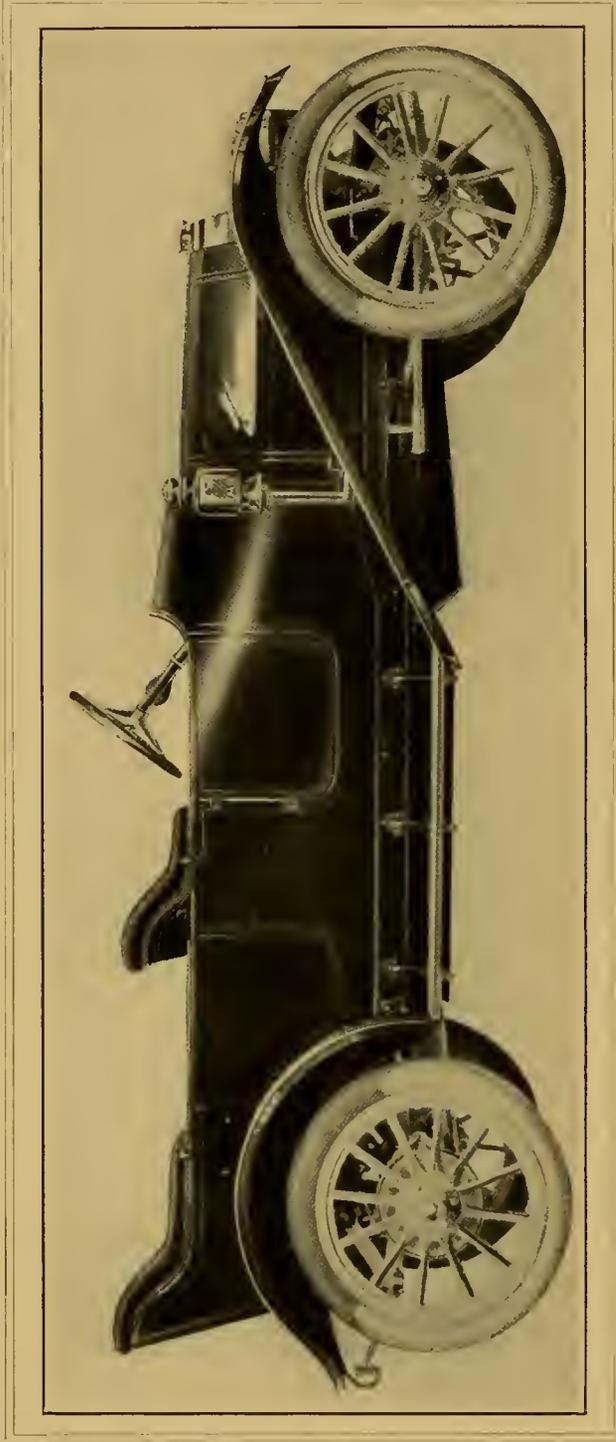
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MONUMENTS

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*Reliability
Durability
Speed*

The Overland



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OHIO

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To Lovers of --- --- Good Printing

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The Steubenville Germania Press has built up its reputation on promptness and quality. We use the best material and combine the characteristics of two continents---American skill and German thoroughness---in the production of our work.

The fact that we started in business 13 years ago with one job press and kicked it with our feet for two years, and further, the fact that we have today the best equipped printing establishment in the city of Steubenville, turning out the acknowledged best printing, will explain to you everything more and better than it could be done in any other way.

One thing we would respectfully mention here. We do not employ solicitors; we make no promises we cannot keep; instead we attend personally to every job entrusted to us, large or small, in order that our customers get justice in every respect.

You are invited to convince yourself.

The Steubenville
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THE CHAMBER OF COMMERCE

A. D. MACMILLAN - - - - Secretary

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