

HARPER-THIEL ELECTROPLATING COMPANY
3201 MILLER ROAD,
WILMINGTON, DE 19802



POWERS & COMPANY, INC.
211 NORTH 13TH STREET, SUITE 500
PHILADELPHIA, PA 19107

Draft 2 Apr. 17, 2007

HARPER-THIEL ELECTROPLATING COMPANY
3201 MILLER ROAD, WILMINGTON, DE

ASSESSMENT OF SIGNIFICANCE

The Harper-Thiel Electroplating Company is located at 3201 Miller Road in Wilmington, Delaware. The most significant and oldest building at the complex is the c. 1917 Mission/Colonial Spanish Revival style Building I. According to the *Philadelphia Real Estate Record and Builders' Guide*, the architect for the project, at least until 1917, was Robeson Lea Perot.¹ Although there have been as many as twenty-one various structures built over the years to accommodate the numerous functions of the site, Building I has always been the focal point of the site. These secondary buildings had a fairly even distribution of both substantial buildings and sheds, but it is fairly certain that they were all constructed after 1946, when the Harper-Thiel Electroplating Company purchased the site. Although the secondary buildings help illustrate the function of the complex, they are mostly in poor condition with no significant architectural features or ornamentation. Consequently, their loss would not severely diminish the overall value of the site. According to the 1988 Cultural Resource Survey, 3201 Miller Road was originally constructed on the periphery of Wilmington in an undeveloped area. Currently, the complex is surrounded by contemporary residential development and stands as an isolated example of a Mission/Colonial Spanish Revival style industrial building.

In summary, the high level of integrity of Building I and the numerous extant secondary buildings, as well as the knowledge of the original architect, result in the architectural significance of the Harper-Thiel Electroplating Company at 3201 Miller Road in Wilmington, DE as a good commercial example of the Mission/Colonial Spanish Revival style. If this complex were to be listed on the National Register of Historic Places, it would be exclusively nominated for Criterion C: Architecture. The complex might also be nominated under Criterion A: Industry, but there is essentially no information about how the work completed at the complex relates to the larger field of Gunpowder or Chemical Engineering and as Francis Irenee du Pont was essentially ostracized from most of his family during his time at the complex, there is no significant connection to the rest of the du Pont family.

SHP
disagrees
Crit. A
Strong
possibility

¹ *Philadelphia Real Estate Record and Builders' Guides* from 1915 and 1916 cite Robeson Lea Perot as being the architect for the project. There is no mention of the project or the architect in the *Philadelphia Real Estate Record and Builders' Guide* after September 6, 1916.

SITE CHRONOLOGY

The land on which the Harper-Thiel complex now stands was not developed until just after owner Edward Green Bradford sold it on May 12, 1916 to the Delaware Chemical Engineering Company.² Between December 1, 1915 and September 6, 1916, there are four mentions of the forthcoming complex in the *Philadelphia Real Estate Record and Builders' Guide*. The *Guide* refers to the project as a laboratory building, a chemical laboratory and an experimental building. In all four entries, the architect for the project is Robeson Lea Perot and after March 29, 1916, the owner of the property is listed as Francis Irenee du Pont.³ The Delaware Chemical Engineering Company was the incorporated name of Francis Irenee du Pont's personal experimental laboratory, which was established in 1917.⁴ Du Pont (1873-1942), who had just lost his seat on the Board of Directors of the E.I. du Pont de Nemours Company, named himself president and during his time there "he developed process that led to the organization of the Ball Grain Explosives Company, which made fuses during the World War. [He] also perfected his earlier invention of the minerals separation process."⁵

WWT

According to the correspondence of Alfred I. du Pont and Francis Irenee du Pont between July 1915 and September 1917, the work conducted at the plant included the separation of oxidized nitrogen from the air to form nitric acid and nitrates, the effects of strong electromagnets upon partially ionized gasses, and the development of Smokeless powder.⁶ These letters refer to others involved in these experiments, including E. Paul du Pont, Electrical Engineer, Archibald M. L. du Pont, Mechanical Engineer and Maurice Brandt, Chemist. It is most likely that this work was begun at the Experimental Station in Wilmington, DE and then continued at 3201 Miller Road, once the complex had opened.⁷ Moreover, in a description of itemized expenditures dating to May 24, 1914 Francis Irenee du Pont lists the following costs: Land, \$6,000.00; Buildings, \$32,082.47; Machinery and Tools, \$5,584.98; Deposit Securing Gas, \$900.00; Sewer Excavations, \$2,097.17; Insurance, \$335.00; Chemicals and Apparatus, \$1,756.35.⁸ He also lists the costs of different experiments: Nitric Acid from Air, \$20,557.54; Smokeless Powder, \$1,179.07; du Pont Chronograph, \$203.02; Sixteen Unit Press, \$2,518.32; Safer Black Powder Coming Mill, \$168.20; Solvent Recovery System, \$226.88; Method of Making Nitrate Ammonia,

² Edward Green Bradford (1848-1928) was a prominent attorney, City Solicitor, US District Court judge, and State Representative. He was also connected to the du Pont family through his marriage to Eleuthera Paulina du Pont (1848-1906), who was the daughter of Alexis Irenee DuPont and the sister of Alexis Irenee du Pont, Jr. and Francis Gurney DuPont. The first known owner of the site was Isaac C. Elliott, about whom no substantial information has been found. Sometime between 1900 and 1916, Elliott sold the land to Edward Green Bradford.

³ *Philadelphia Real Estate Record and Builders' Guide* (December 1, 1915), 770; *Philadelphia Real Estate Record and Builders' Guide* (March 29, 1916), 223; *Philadelphia Real Estate Record and Builders' Guide* (July 5, 1916), 445; *Philadelphia Real Estate Record and Builders' Guide* (September 6, 1916), 596. Robeson Lea Perot (1872-1944) was born in Philadelphia, PA and attended the University of Pennsylvania, where he became close friends of several members of the du Pont family. He operated as an independent architect in the late 19th century, but by 1900 had opened a firm with his cousin, Elliston Perot Bissell. This firm only last until 1904, and Perot worked independently for the rest of his life. Perot's first wife had been Eleanor Ball du Pont, and this, along with his connections from the University of Pennsylvania, led to a number of commissions for the du Pont family.

⁴ Francis Irenee du Pont was the great grandson of Eleuthere Irenee du Pont, founder to the E.I. du Pont de Nemours Company.

⁵ *New York Times*, "F.I. DuPont Dead: Research Chemist" (March 17, 1942): 22.

⁶ All following referenced correspondence is located at Washington and Lee University, Leyburn Library, Alfred I. du Pont Papers, 1897-1950, Box 31, Folder 5.

⁷ Francis Irenee du Pont established and became the first director of the E.I. du Pont Company's Research and Experimental Station in 1903. *New York Times*, "F.I. DuPont Dead: Research Chemist" (March 17, 1942): 22.

⁸ Letter dated May 24, 1917, from Francis Irenee du Pont.

\$327.25; Maxim – du Pont Gun, \$1,255.11; New Method of Generating Powder, \$43.85.⁹ Of these expenses, \$55,805.00 was paid by Francis Irene du Pont and \$21,000.000 was paid by Alfred I. du Pont. Much of this work was highly experimental, and it is unclear exactly how much of it garnered widespread acceptance.

The only definitively extant building dating to the time of the Delaware Chemical Engineering Company is Building I. Building I was probably constructed in two phases; the first c. 1917 and the second between 1920 and 1927. This is likely the case because of two unusual architectural occurrences. The first is that two of the pilasters found on the exterior of the Corner Section are visible on the west interior wall of the Connector Section and one pilaster found on the exterior of the Corner Section is visible on the south interior wall of the North-South Section. Had the building been built in a single campaign, it is doubtful that the pilaster motif would have been replicated on an interior wall. The second unusual element is the partial pediment on the east elevation of the Connector Section. Currently, the pediment intersects with the roof of the East-West Section at a peculiar angle that consequently eliminates the south half of the pediment. It would have been illogical to design the structures this way had they all been constructed at a single time. The north elevation is in line with the north elevation of the Corner Section and projects from the north elevation of the East-West Section. This theory is also corroborated by the fact that the East-West Section is perfectly centered along the east elevation of the Corner Section, and that neither of those two sections bear any logical relationship to the Connector Section that evidences a comprehensive initial plan.

Although the property was not officially sold, the site became the research laboratory for the Darco Division of the Atlas Powder Company in 1930.¹⁰ The Atlas Powder Company, the Hercules Powder Company and the du Pont de Nemours Powder Company were all created in 1913, after the Gunpowder Trade Association, which controlled 85 per cent of the United States gunpowder market, was disbanded in 1881. Formerly the Gunpowder Trade Association was controlled by Francis Gurney du Pont (1860-1904), father of Francis Irene du Pont. The Atlas Powder Company offices were headquartered in the Delaware Trust Building in downtown Wilmington, DE and the Company exclusively manufactured black powder and dynamite. The 1988 Cultural Resource Survey of the Miller Road site speculated that the building's "linear configuration is presumably related to an early use as a below-grade test range for ballistics."¹¹ Unfortunately, the Survey cites no explanation for this assumption and based on both the function of the buildings and the descriptions of building use on the Sanborn maps, there is no reason to assume that this statement is accurate. The complex functioned in this industry until March 14, 1946 when it was sold by the Delaware Chemical Engineering Company to Harry S. Thiel and Wife.

Harry S. Thiel was a co-owner of the Harper-Thiel Electroplating Company, which was established in 1946. Electroplating is the term for the deposition of a metallic coating onto an object by putting a negative charge onto the object and immersing it into a solution which contains a salt of the metal to be deposited.¹² The purpose of electroplating is to finish a metal in order to change its appearance, to protect it from degeneration, or to alter its surface, engineering or mechanical properties.¹³ The electroplating process utilized at the Miller Road complex involved the use of nickel, cadmium, copper, gold, silver and, most frequently, chrome. Chromium plating was such a popular technique because it both enhanced the aesthetics of the object and provided the best protection against deterioration. According to their marketing brochure, the Harper-Thiel Electroplating Company had the capacity to produce "6,800 gallon of chromium plating solution and [the] capability to deliver more than 29,000 amperes at 9 volts [thereby giving the Company] a unique flexibility that supports [their] reputation as one of the most modern and

⁹ According to the same description, the experiments with Smokeless powder were paid for by the Ball Grain Company, as they were the owners of the patents.

¹⁰ *Cultural Resource Survey*, 1988, p. 1-2.

¹¹ *Cultural Resource Survey*, 1988, p. 1-2.

¹² www.finishing.com/faqs.howworks.html

¹³ <http://www.geocities.com/micchannwong/electroplating.htm#purpose.htm>

versatile platers on the east coast."¹⁴ While occupying the site, the Harper-Thiel Electroplating Company added over 5,000 square feet of space to the original plant, which consisted solely of Building I. It is therefore possible to assume that all the buildings not given construction dates in the previous section can be given a construction time frame between c. 1950 and c. 1980. On March 23, 1983, Mary N. Thiel (wife of Harry S. Thiel) sold the land to the Harper-Thiel Electroplating Company. Business continued as usual, despite the deed change, until April 13, 2000, when the Harper-Thiel Electroplating Company closed and the land was sold to Karun, LLC. The complex now stands vacant.

¹⁴ Harper-Thiel Electroplating Company brochure, 1985.

BUILDING DESCRIPTION

The Harper-Thiel Electroplating Company complex located at 3201 Miller Road in Wilmington, Delaware, is currently comprised of twelve buildings that range in both date and material. The site is roughly in the shape of a parallelogram with a chain link fence surrounding the property. The ground slopes toward the south and the Wilmington City Line runs from north to south through the eastern quarter of the property. Miller Road runs along the southern boundary of the property. The property is laid out with the main manufacturing and office building (Building I) placed along Miller Road; support buildings surround the rear of Building I. An unpaved driveway accesses the property from the northwest corner. The most prominent and oldest building on the property (Building I) is designed in the Mission/Colonial Spanish Revival style. It features typical elements of the style, including the stuccoed exterior, exposed wood rafter tails, pantile roofing materials, arcaded bays, half round arched windows and curvilinear gables and parapets.

BUILDING I (PHOTOGRAPHS 1-8, 14-20, 22-26, 28-30, 32-34, 39, 51-82)

Building I, facing Miller Road, is a large, L-shaped Mission/ Colonial Spanish Revival style building covered in yellow stucco. Built in phases from c. 1917 to 1927, the building is separated into four distinct divisions, which possibly date from different building campaigns: a North-South Section, a Corner Section, a Connector Section and an East-West Section. Although no existing records precisely chronicle the building campaigns, it is most likely that the Corner Section and the East-West Section were built simultaneously during the first building campaign in 1917, the former as offices and the latter as a work space. It is impossible to determine the subsequent order in which the Connector Section and the North-South Section were built, but it is clear from the Sanborn maps, that both sections were completed by 1927. At least until 1916, the architect for this building was Robeson Lea Perot.

Corner Section

The Corner Section, dating from c. 1917, is a square, 2-story block-shaped structure with a low-pitched side-gabled roof and exposed wood rafters. The roof is clad in smooth asphalt shingles. The center of the north slope of the roof continues down to intersect with the one-story front-gabled roofline of the North-South Section. The south and west elevations of the Corner Section are the only elevations that are completely exposed, as the east elevation abuts the Connector Section and the north elevation is adjoined by the North-South section.

The north elevation of the Corner Section has a single window opening that has been infilled with recessed stucco except for a small square window remaining at the top. Neither the west side of the 1st floor nor either side of the 2nd floor has any window openings.

The west elevation it has three bays separated by unadorned pilasters that support wood roof brackets. The windows on the 1st floor are 6/6, double-hung wood windows. Those window openings on the 2nd floor are arched with a paired 6-light center wood window with a 4-light wood transom flanked by 12-light wood windows. All of the windows have wood surrounds and sills.

The south elevation of the Corner Section has three bays separated by unadorned pilasters that support wood roof brackets. On the 1st floor, the two outer windows are 6/6, double-hung wood windows with wood surrounds and sills topped by incised stucco arches. The center bay of the 1st floor contains a projecting open porch with arches on the west, south and east elevations and a simple white terra cotta tile stringcourse and cornice. The openings on the east and west are accessed up a short flight of concrete steps flanked by knee walls. The entrance to the building is a single-leaf door with two wood panels on the lower half and 4-lights on the upper half. The door is topped by a 3-light transom and flanked by 4-light sidelights. The door, the surround and the sills are all of wood. On the 2nd floor, there are no window openings in the outer bays. The center bay contains a half-glazed, single-leaf wood door with a 3-light arched transom. Above the center bay, the roofline is broken by an undulating Mission style pediment.

room is a large, deep trough cut out around the perimeter of the room that presumably allowed for the disposal of chemical materials.

According to the March 29, 1916 the September 6, 1916 issues of the *Philadelphia Real Estate Record and Builders' Guide*, plans were in progress for an earlier version of this building, with dimensions ranging from 63'x121', 22'x132' and 22'x273'. In both reports, Robeson Lea Perot was cited as the architect of the project and Francis Irenee du Pont is cited as the owner.¹⁶

North-South Section

The North-South Section, built in a secondary building campaign between 1920 and 1927 is a 1-story wing designed as a Research Laboratory. The North-South Section has yellow stucco walls with low-pitched red terra cotta roof and exposed rafters. The north elevation of the North-South Section has a single recessed arched bay that contains an arched, paired 4-light wood window flanked by wood infill. The window also has a wood surround and sill. The west elevation has six recessed arched bays that contain arched, paired 4-light wood windows flanked by 8-light sections. The windows have wood surrounds and terra cotta tile sills. Many of the windows are in deteriorated condition and have been boarded up on both the exterior and interior. A white terra cotta tile stringcourse runs the length of the elevation. There is no south elevation of the North-South Section because the building directly abuts the north wall of the Corner Section on that side.

The east elevation of the North-South Section, recessed from the east elevation of the Corner Section has seven bays. The two northernmost bays contain 6/6 double-hung wood windows. The 3rd bay from the north holds a paired 6/6 double-hung wood window. The center bay of the elevation has a double-leaf, half-glazed wood door with a 3-light transom that is located at the top of five stone steps. The 3rd bay from the south contains a single 6/6 double-hung wood window. The 2nd bay from the south, formerly a window opening, is infilled with stucco and contains a projecting vent/spout and a stone sill. The southernmost bay projects slightly out from the rest of the elevation. The east elevation of this projection has a 2/2 double-hung wood window. The north elevation of the projection has a 6/6 double-hung wood window. All of the window openings have wood surrounds and sills. The interior of the building is divided into four rooms that are accessed from a hallway that runs the length of the east side of the building. Because the space was used for research, it has simple finishes such as wood floors, painted plaster walls and ceiling and some remaining original wood trim. The only notable feature on the interior is the presence of the pilaster on the south wall of the southernmost room, as mentioned above.

Connector Section

The Connector Section is a 1-story space is covered in stucco with a low-pitched asphalt shingle roof. Built in a secondary building campaign sometime between 1920 and 1927, the north elevation has three recessed arched bays that are separated by truncated, unadorned pilasters. The east bay is infilled with stucco except for an opening containing a 9-light metal window with a metal sill. The center bay contains a replacement garage door with a stucco surround. The west bay is also filled with stucco except for openings containing a single-leaf wood door with four lights that is located up one stone step and two flanking 1/1 double-hung metal windows with terra cotta sills. The most prominent feature of the north elevation is an undulating Mission Revival style shaped parapet wall that breaks the roofline and conceals the roof. It is nearly identical in design to the pediment on the south elevation of the Corner Section. The north elevation is decorated with a white terra cotta tile stringcourse, a white terra cotta tile cap on the pediment and a Spanish Revival style cross above the center bay.

The west elevation of the Connector Section completely abuts the east elevation of the Corner Section and no portion of it is visible.

¹⁶ *Philadelphia Real Estate Record and Builders' Guide* (March 29, 1916), 223; *Philadelphia Real Estate Record and Builders' Guide* (September 6, 1916), 596.

The south elevation of the Connector Section is recessed from both the south elevation of the Corner Section and the south elevation of the East-West Section. Like the north elevation, the south elevation of the Connector Section has three recessed arched bays that are separated by truncated, unadorned pilasters. The west bay is filled with stucco except for an opening containing a 9-light metal window with a metal sill. The center bay contains a double-leaf 2-panel wood door that breaks the curve of the recessed archway. The door, reached from a single oversized concrete step, has diagonal wood slats. The east bay is also filled with stucco except for openings containing a single-leaf wood door with 4 lights and two flanking 1/1 double-hung metal windows with terra cotta sills. The entrance opening is located up two steps with stone treads and stucco risers. The most prominent feature of the south elevation is the same undulating Mission Revival style shaped parapet as the north elevation that breaks the roofline and conceals the roof. It is the same as that on the north elevation. The south elevation is decorated with a white terra cotta tile stringcourse, a white terra cotta tile cap on the pediment and a Spanish style cross above the center bay.

The majority of the east elevation is concealed by the west elevation of the East-West Section; only a small portion remains exposed on the north end. The east elevation only has one opening containing a 9-light metal window with a metal sill that is set into a recessed arch infilled with stucco. At the north end of the elevation is a truncated and unadorned pilaster supporting a wood roof bracket. This elevation also has an undulating Mission style pediment, but with a lower pitch than that on the other elevations. Additionally, only the north half of the pediment was constructed because of the more prominent, overlapping roofline of the East-West elevation.

The interior of the Connector Section is completely open with a concrete floor covering the original tile. The functionality of this space resulted in few finishes except for painted stucco walls and a wood truss ceiling with metal beams and suspended mechanical equipment. The west wall contains the two pilasters mentioned above, which are slightly left of center and a doorway opening in the center that is flanked by two window openings. The south opening contains a 4-light wood window with a wood surround and sill. The north window has been filled with cinderblock and has a terra cotta sill. The east wall contains a single-leaf door opening that is flanked by two 9-light metal windows with metal sills.

Building I retains a high level of architectural integrity and is the most significant structure in the complex. Although some of the interior trim has been removed, all of the interior walls and finishes are extant and there have been few alterations to the interior subsequent to the secondary phase of construction.

BUILDING IV (PHOTOGRAPHS 11-14, 21, 37, 39-42, 44, 51)

Building IV is a 3-story painted concrete block building with a flat roof that was used for electroplating by the most recent owners, according to the 1998 Sanborn map. Current building permits also cite the building's use as "Light Manufacturing and Processing." The building was constructed in two campaigns: the center square block dates to 1963 and the outermost bays on each side date to c. 1970.¹⁷ The north elevation has four evenly spaced steel I-beams that divide the elevation into three bays. In the center of each bay near the roofline is one small square window opening. Halfway up the elevation is a simple metal balcony that spans the elevation. The west elevation has three bays. The outer bays of each floor have square garage door openings with some of the doors still intact. The center bay has a single large double-height opening with a metal garage door. The south elevation mirrors the north elevation by having four evenly spaced steel I-beams that divide the elevation into three bays. Halfway up the elevation is a simple metal balcony that spans the elevation and halfway between this balcony and the roofline is another simple metal balcony in the westernmost bay. Between the smaller balcony and the roofline is a large square vent that is flanked by slightly higher small single-light square window openings. The same vent is in the center of the center bay, also near the roofline. There is a second smaller

¹⁷ The exact date of construction was determined by building permits.

circular vent in the easternmost bay at the same height as the other. The east elevation has no openings except for two doors, one single-leaf metal door at the southeast corner and one double-leaf metal door in the center. The only other features on the elevation are two alarm bells that are affixed halfway up the elevation on either end, and metal pipe that intersects the elevation on the 2nd floor slightly south of center. The interior of the building is utilitarian in character with concrete floors and concrete block walls throughout. The center bay of the building is a completely open space with various metal trusses and industrial balconies remaining. The outer bays are divided into floors and contain some remaining electroplating equipment.

Although Building IV contributes to the history of the complex, it has no distinct architectural style and little architectural value. Consequently, the building is of minor significance to the complex.

BUILDING V (PHOTOGRAPHS 36, 46-50)

Building V is a painted concrete block building with a pitched roof. Constructed in 1973, the western two-thirds of the building is 1-story and the remaining third is 2-stories.¹⁸ The building permits cite the function of the building as a "General Warehouse." The north elevation is not accessible, as it backs up directly to the chain link fence that surrounds the property, which is at the foot of a steep incline. At the top of the incline is the track for the Baltimore and Ohio Railroad, which is bordered to the north by I-95. However, from interior investigation, Building V has no openings on the north elevation. The west elevation has one bay containing a single garage door in the center. The south elevation has a single-leaf metal door at the west end of the 1-story section and a garage door in the center of the 2-story section. The east elevation has no openings. The interior of Building V is open with concrete floors; some mechanical equipment remains.

Although Building V contributes to the history of the complex, it has no distinct architectural style and little architectural value. Consequently, the building is of minor significance to the complex.

BUILDING VI (PHOTOGRAPHS 35, 43, 45, 88)

Building VI is a painted concrete block building with a low-pitched roof. The 1-story building was constructed in 1973.¹⁹ The building permits cite the function of the building as for "Light Manufacturing and Processing." The north elevation has no openings except for three small rectangular windows at the west end near the roof line. The west elevation has two bays containing a garage door to the north, and a single-leaf metal door to the south. The south elevation has no openings. The east elevation has no openings except for a small single-leaf door on the south side. The interior of the space is open with concrete floors; some mechanical equipment remains.

Although Building VI contributes to the history of the complex, it has no distinct architectural style and little architectural value. Consequently, the building is of minor significance to the complex.

BUILDING VII (PHOTOGRAPHS 35, 36, 38, 86, 87)

Building VII is a 1-story, painted concrete block building with a low-pitched roof. Constructed in 1973, the building was originally used for sandblasting.²⁰ The north elevation has no openings as it almost directly abuts Building VI. The south elevation has a single 6-light metal window in its center. The east elevation has at least one 8-light metal pivot window and two double-leaf metal doors.²¹ The west elevation has four bays that contain a double-leaf metal door, a single-leaf

¹⁸ The exact date of construction was determined by building permits.

¹⁹ The exact date of construction was determined by building permits.

²⁰ The exact date of construction was determined by building permits.

²¹ The east elevation is largely inaccessible because of overgrown vegetation and the proximity of the fence that surrounds the property, so it is difficult to determine precisely what exists.

metal door and a garage door, from north to south. The southernmost bay is completely obscured by Shed C. The interior of the building is divided into a series of smaller spaces with some remaining equipment.

Although Building VII contributes to the history of the complex, it has no distinct architectural style and little architectural value. Consequently, the building is of minor significance to the complex.

BUILDING IX (PHOTOGRAPHS 23, 34, 39)

Building IX is a frame structure with corrugated steel and a pitched roof that was constructed in c.1970 and used as a storage shed. The north elevation has a double-leaf corrugated steel door and none of the other elevations have openings. The south elevation abuts the sixth bay of the north elevation of the East-West section of Building I.

Building IX is essentially a shed with no architectural style or design. Consequently, it is of no significance to the complex.

BUILDING XI (PHOTOGRAPHS 23, 27, 34, 39)

Building XI is a frame structure with concrete block and no roof that was constructed c.1970. It was also used as a storage space. There are no openings on the north or east elevations. The west elevation has a large rectangular opening for a garage door. The south elevation abuts the fourth bay of the north elevation of the East-West section of Building I.

Building XI is in an extreme state of deterioration and the remaining portions of the building have no architectural value. Consequently, it is of no significance to the complex.

BUILDING XIV (PHOTOGRAPHS 14, 17, 29, 34, 39)

Building XIV is an elevated square steel building on four steel columns with a pitched metal roof that was constructed c.1970. There are no openings on the north, south or west elevations. The east elevation has a single-leaf metal door.

Building XIV is essentially a shed with no architectural style or design. Consequently, it is of no significance to the complex.

BUILDING A (PHOTOGRAPHS 9, 10, 37, 51, 83)

Building A is a 1-story, painted concrete block building with a pitched roof that is covered in shingles. The building was constructed in 1983 and used as a "Small Shop" according to the building permit. The north elevation has no openings but is largely inaccessible because of its proximity to the fence, the incline, the Railroad and I-95, as described for Building V. The west elevation has no openings. The south elevation has three bays that are filled with garage door openings of various sizes. The east elevation has a single-leaf metal door on its south side.

Although Building A contributes to the history of the complex, it has no distinct architectural style and little architectural value. Consequently, the building is of minor significance to the complex.

BUILDING B (PHOTOGRAPH 31)

Building B is a frame structure with corrugated steel and has a pitched roof with shingles. The same size structure in the same location is present on the 1927 Sanborn map, but that structure

The east elevation of the Corner Section is almost entirely abutted by the west elevation of the Connector Section. Consequently, the only portion of the 1st floor that is exposed is on the southern end and it contains a single 6/6 double-hung wood window. The 2nd floor has three bays separated by unadorned pilasters that support wood roof brackets. The windows are arched with a paired 6-light center wood window with a 4-light wood transom flanked by 12-light wood windows. All of the windows have wood surrounds and sills. Above the center bay on the 2nd floor is a small, incised cross and beneath the northern eave is an irregular oval window opening.

The interior of the Corner Section is laid out for use as an office space and is functionally finished with wood ceilings and floors, painted plaster walls and some remaining original wood baseboard and door trim. The 1st floor can be accessed in three ways. A short, straight-run set of stairs connects the floor to the elevated south end of the North-South Section; a doorway opening leads from the west end of the Connector Section to the east side; and the third entrance leads from beneath the open porch on the south side. The north half of the 1st floor is open and the south half is divided into three smaller rooms. The 2nd floor of the Corner Section is only accessed by a short straight-run stair from the lower south end of the North-South Section. This space is entirely open and spanned with exposed large wood triangular trusses.

According to the December 1, 1915 issue of the *Philadelphia Real Estate Record and Builders' Guide*, plans were in progress for an earlier version of this building, measuring 90' x 110', but being only one-story tall. Robeson Lea Perot was cited as the architect of the project, but the name of the owner was withheld.¹⁵

East-West Section

The East-West Section of Building I appears to have been built at the same time as the Corner Section and therefore dates to c. 1917. This long and narrow, rectangular 1-story building is covered in yellow stucco with a white terra cotta tile stringcourse and a pitched, red terra cotta tile roof. The north elevation of the East-West Section has twelve recessed arched bays that contain arched, 6/6 double-hung wood windows flanked by 4/4 double-hung wood windows. The windows have wood surrounds and sills. Although the north elevation is intact, much of it has been obscured by the proximity of Buildings IX and XI and Sheds B, C and D that sit to the north of Building I. There are three arched doorways in north elevation: one in the second bay from the west, one in the fifth bay from the west and one in the eighth bay from the west. Both doors are double-leaf with a single wood panel on the lower half and a 3-light glazed section above. The doors are flanked by 3-light sidelights on top of a single wood panel. The west elevation of the East-West Section almost entirely abuts the east elevation of the Connector Section. Consequently only a very small portion of the south side is exposed and it has no window openings or ornamentation. The south elevation of the East-West Section exactly mirrors the north elevation except that the window sills are of painted terra cotta blocks instead of wood. The south elevation has two arched entrances: one in the fifth bay from the west and one in the eighth bay from the west. Both are double-leaf with a single wood panel on the lower half and a 3-light glazed section above. The doors are flanked by 3-light sidelights. The east elevation has a single recessed arched bay with single-light square wood window near the top of the arch.

The interior of the East-West Section is divided into three consecutive spaces. According to the 1927 Sanborn map, these spaces were originally laid out from east to west as a Machine Shop, a Carpentry Shop and a Process Laboratory. There is also a small bathroom area in the northeast corner of the westernmost room. Because these rooms were initially designed for chemical development, testing and processing, they have little decoration or significant finishes. The two westernmost rooms have wood floors and the eastern room has a concrete floor over an earthen floor. The walls throughout are painted stucco and all the rooms have exposed wood truss ceilings with metal beams. Abandoned equipment, both on the floor and suspended from the ceiling, is still in place throughout this section. One significant feature located in the easternmost

¹⁵ *Philadelphia Real Estate Record and Builders' Guide* (December 1, 1915), 770.

probably relates to the mention of a frame and plaster shed designed by Robeson Lea Perot and built by A.S. Reed and Company.²³ The current structure was designed c.1970 and was used as a storage space. The north elevation has a single-leaf metal door in its center. The west elevation has a square multi-light window in its center. Neither the south nor the east elevations have any openings. A sign currently hanging on the west elevation cites the building as a "Boiler Room."

Building B is essentially a shed with no architectural style or design. Consequently, it is of no significance to the complex.

BUILDING C (PHOTOGRAPH 84)

Building C is a shed of metal and corrugated metal with a flat roof. The north elevation is entirely open and neither the east, south nor west elevations have any openings. Building C is largely inaccessible because of its close proximity to Buildings I, VII, B and D and the overgrowth of the site. The building was constructed c.1950 but its original use is not known.

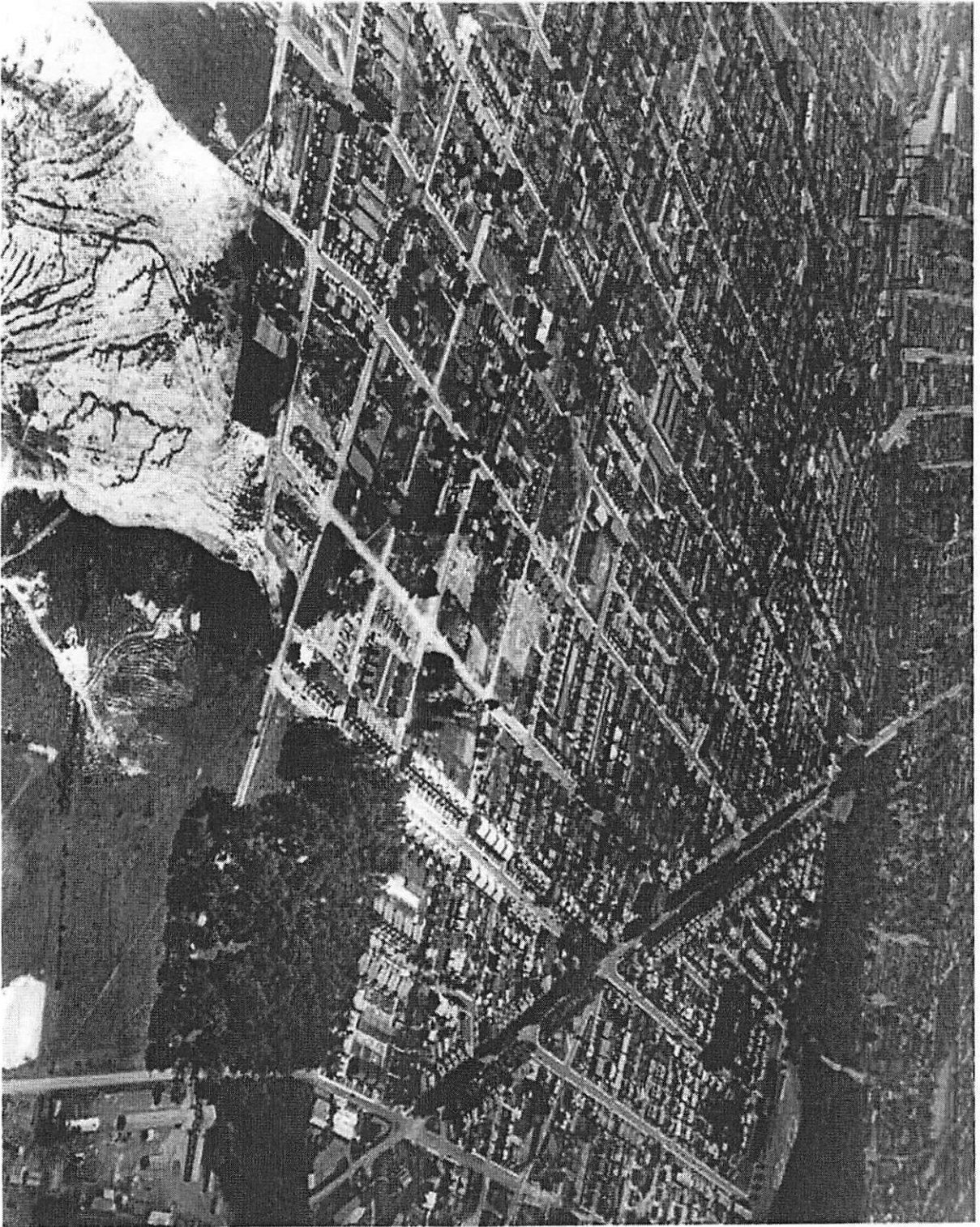
Building C is essentially a shed with no architectural style or design. Consequently, it is of no significance to the complex.

BUILDING D (PHOTOGRAPH 85)

Building D is a square frame shed with a corrugated metal roof. The east and west elevations have rectangular 4-light windows, the south elevation has a single-leaf wood door and the north elevation has no openings. Building D is largely inaccessible because of its close proximity to Buildings I, VII, B and C and the overgrowth of the site. The building was designed c.1970 and was used as a storage space.

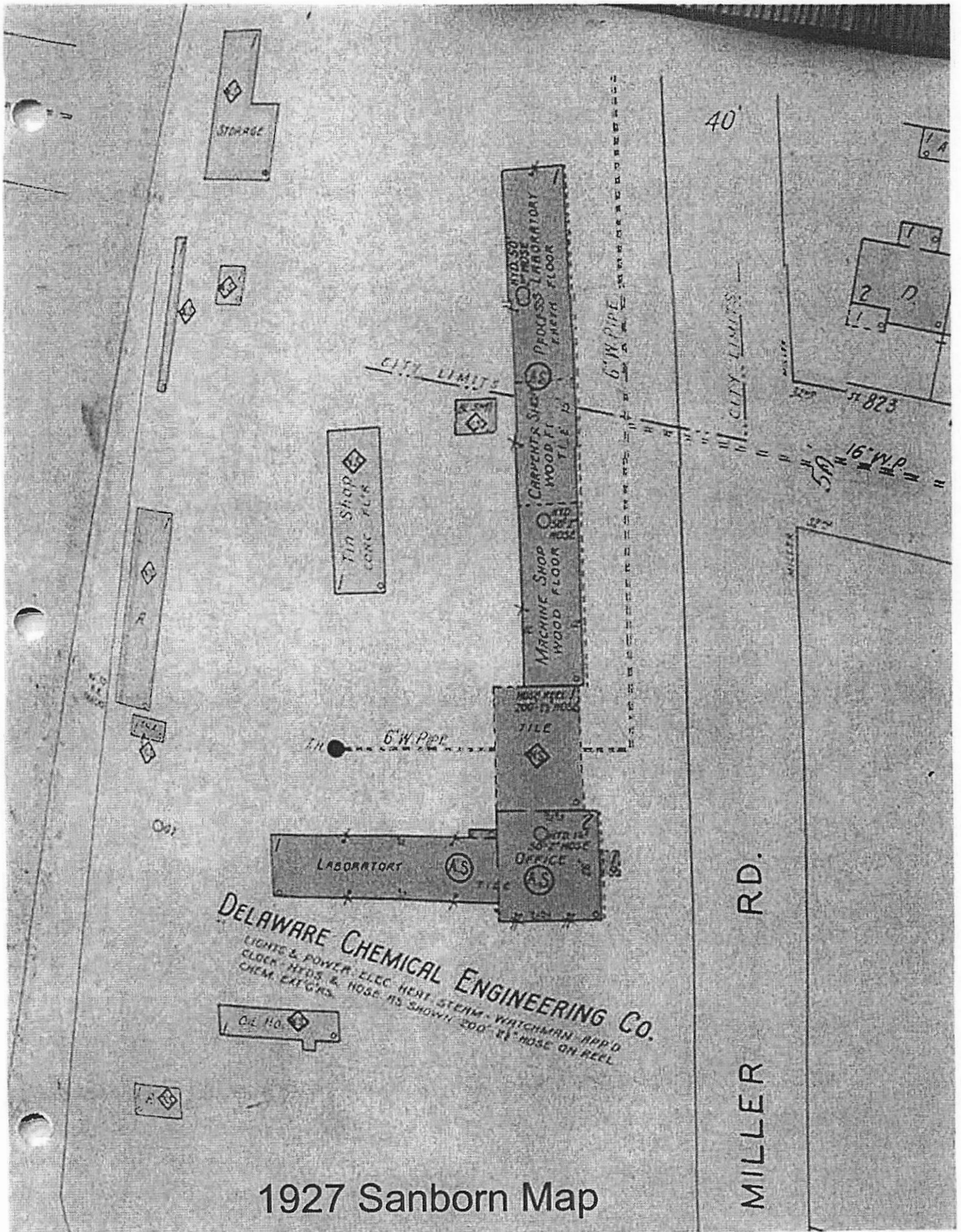
Building D is essentially a shed with no architectural style or design. Consequently, it is of no significance to the complex.

²³ *Philadelphia Real Estate Record and Builders' Guide* (July 5, 1916), 445. A.S. Reed was a contractor from Wilmington, DE, who worked on a number of notable commissions, including a residence for F.H. du Pont and the New Century Club in Wilmington, DE.



Hagley Digital Archives
Dallin Aerial Images
June 1930

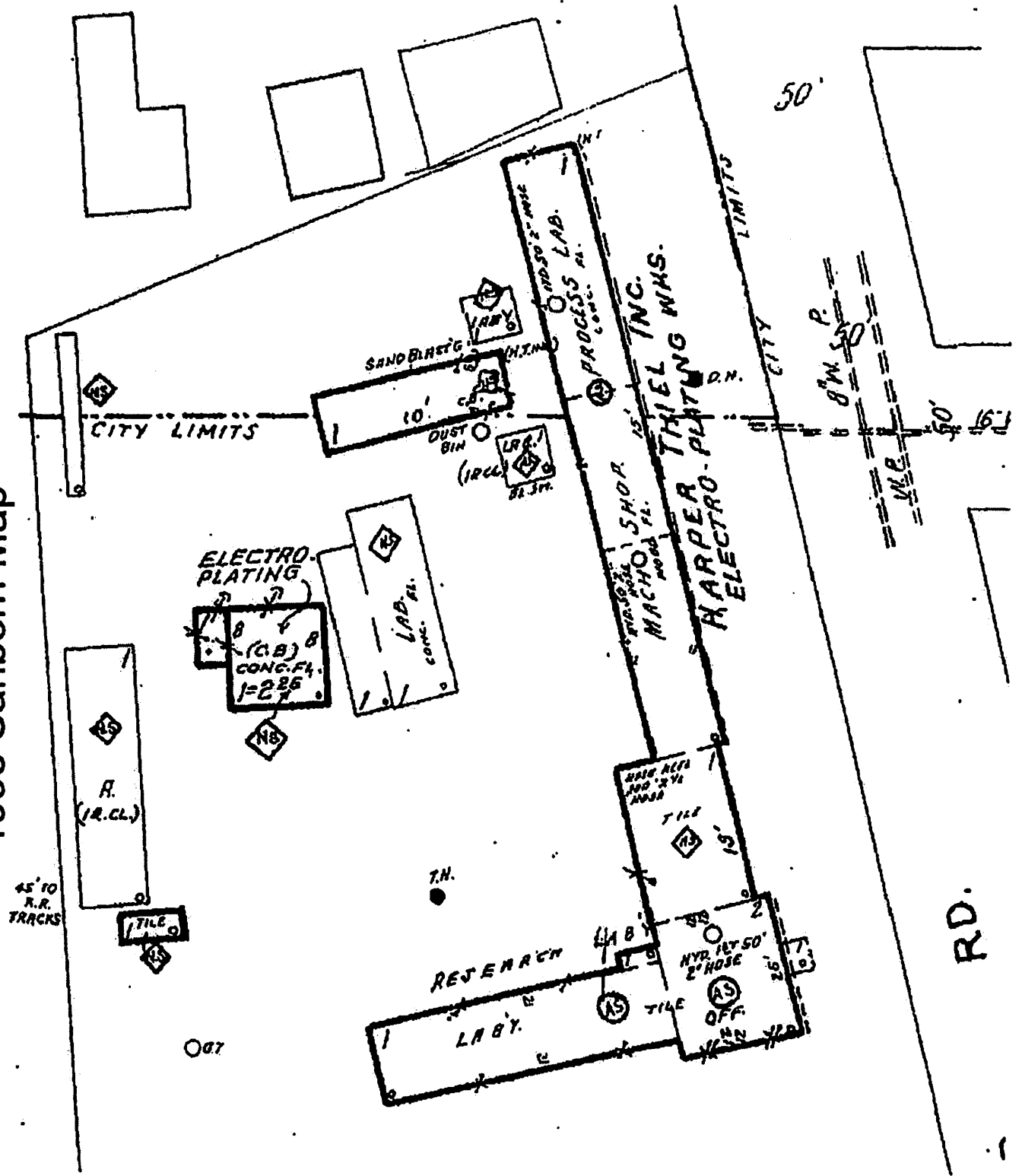


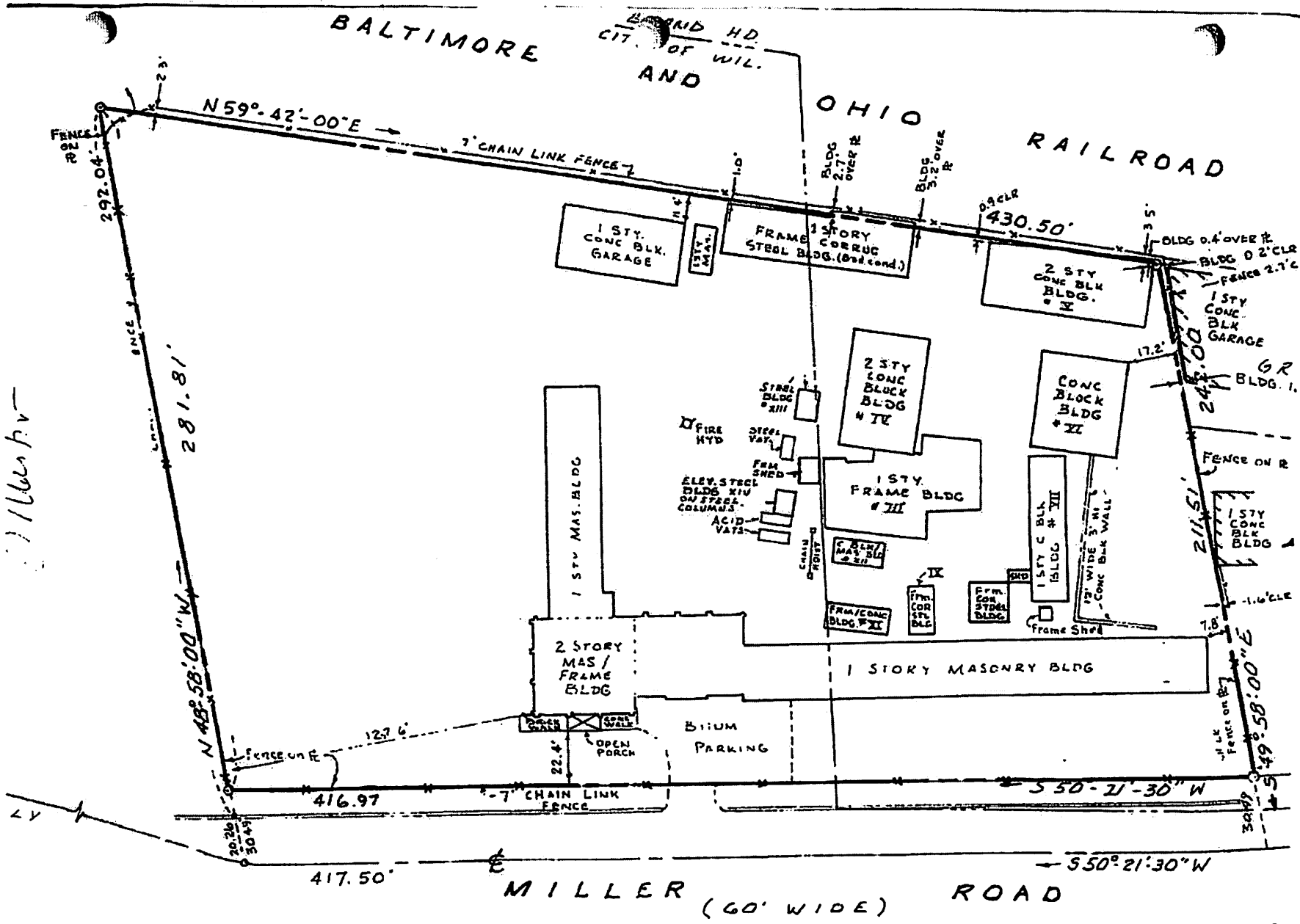


DELAWARE CHEMICAL ENGINEERING CO.
 LIGHTS & POWER, ELEC. HEAT, STEAM, WATCHMAN, APP'D
 CLOCK, HYD'S & HOSE, AS SHOWN, 200' H² HOSE ON REEL
 CHEM. EXT'G'RS.

1927 Sanborn Map

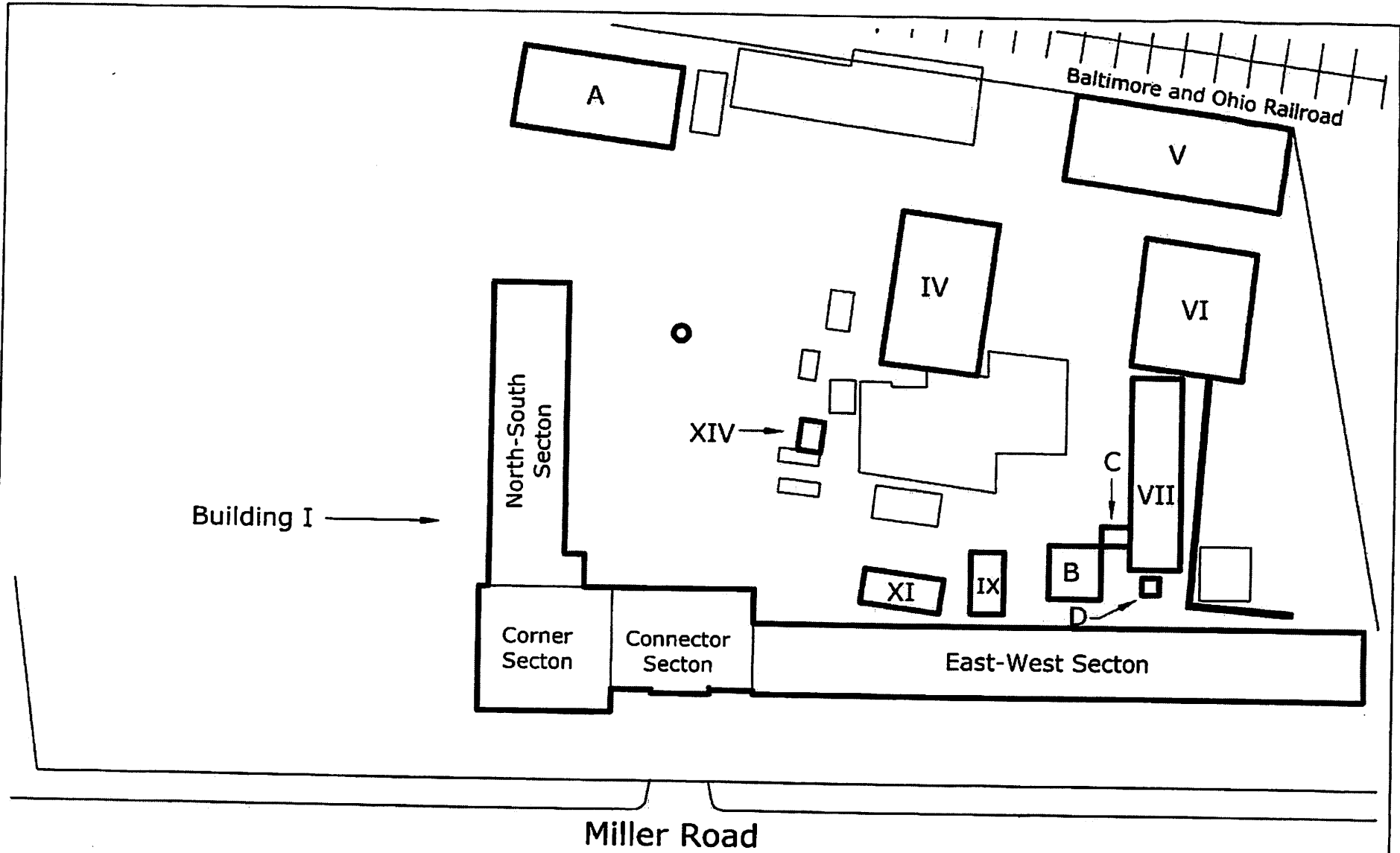
1998 Sanborn Map







Property Survey
 April 14, 2000

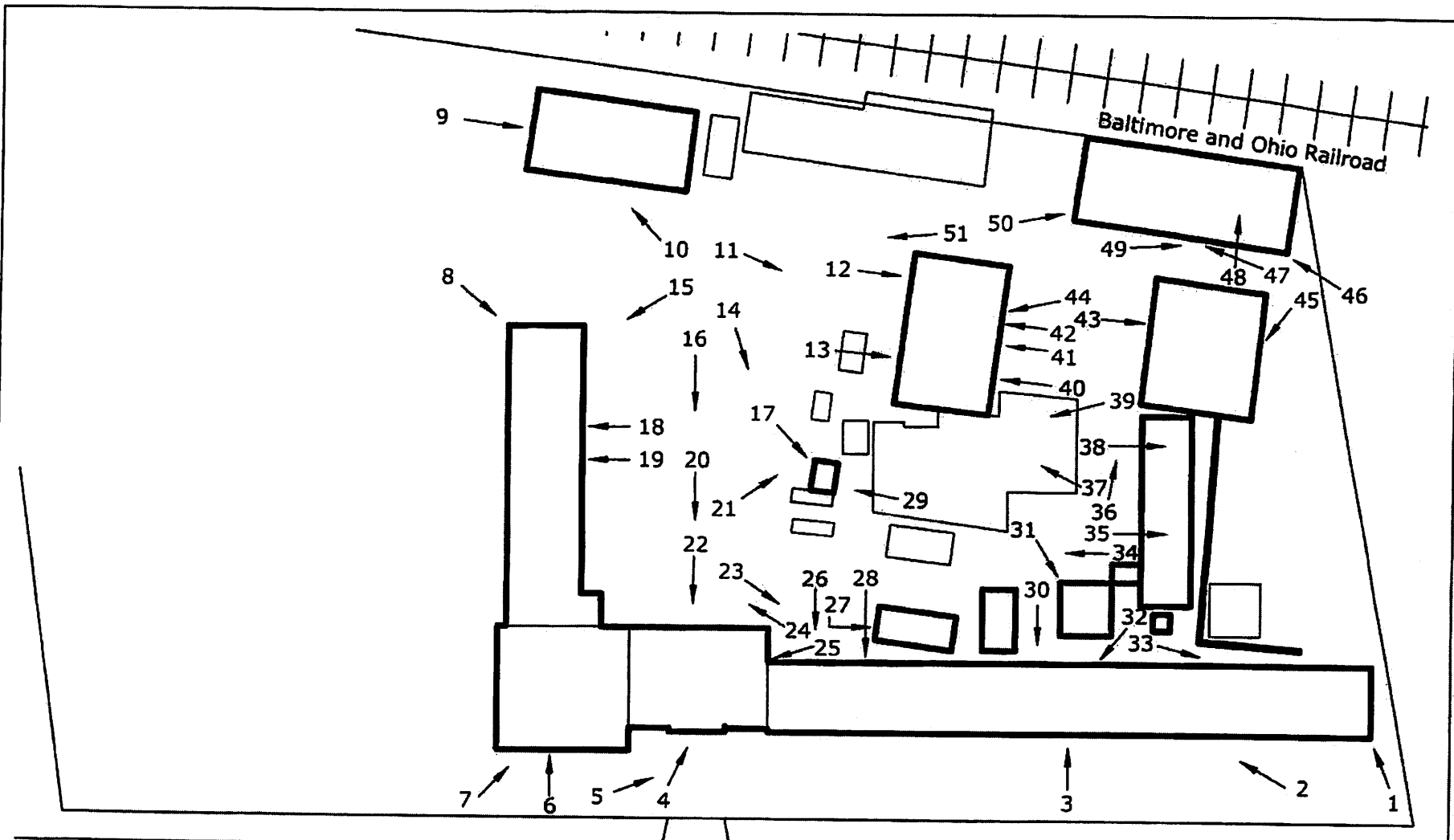
Property Su
 Property
 I. P. SINC
 3101 Miller Road, City



The Harper -Thiel Electroplating Company
 3201 Miller Road
 Wilmington, DE
 Site Plan

-  Demolished
-  Extant

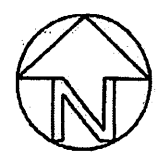


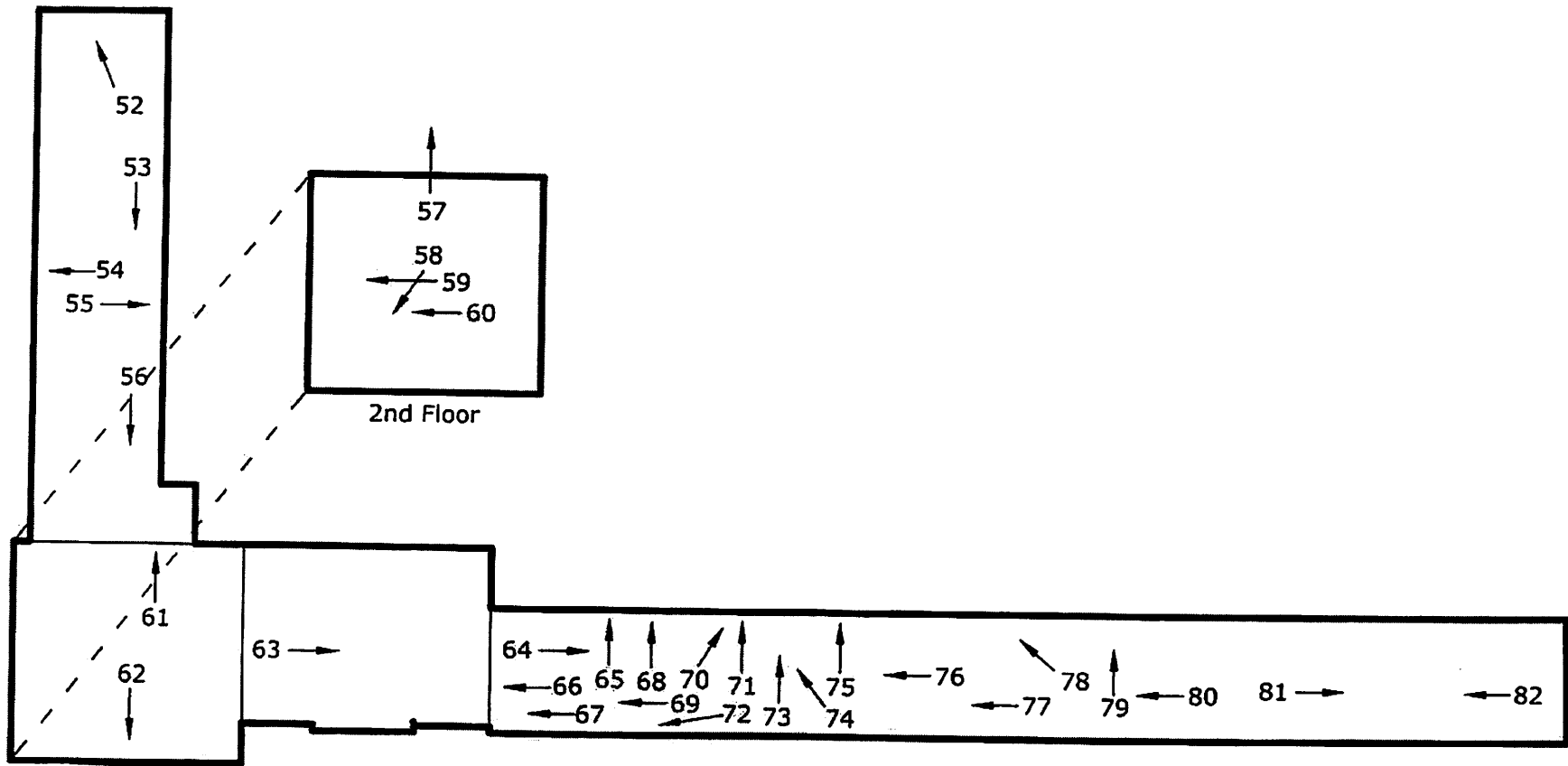


Miller Road

The Harper -Thiel Electroplating Company
 3201 Miller Road
 Wilmington, DE
 Photograph Key - Exterior

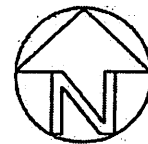
- Demolished
- Extant

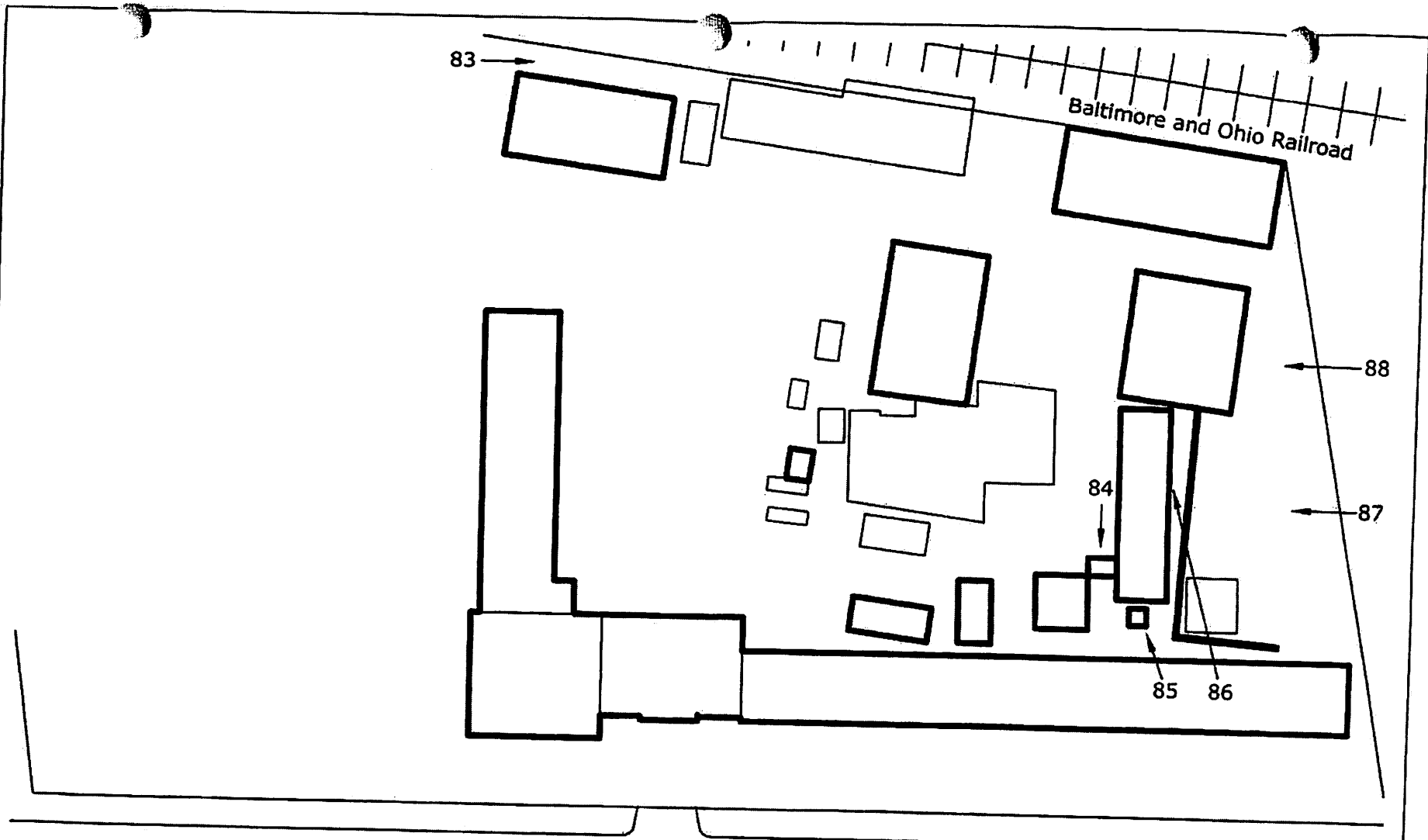




The Harper -Thiel Electroplating Company
 3201 Miller Road
 Wilmington, DE
 Photograph Key - Building I Interior



Demolished
 Extant

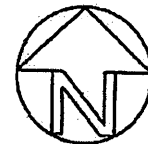


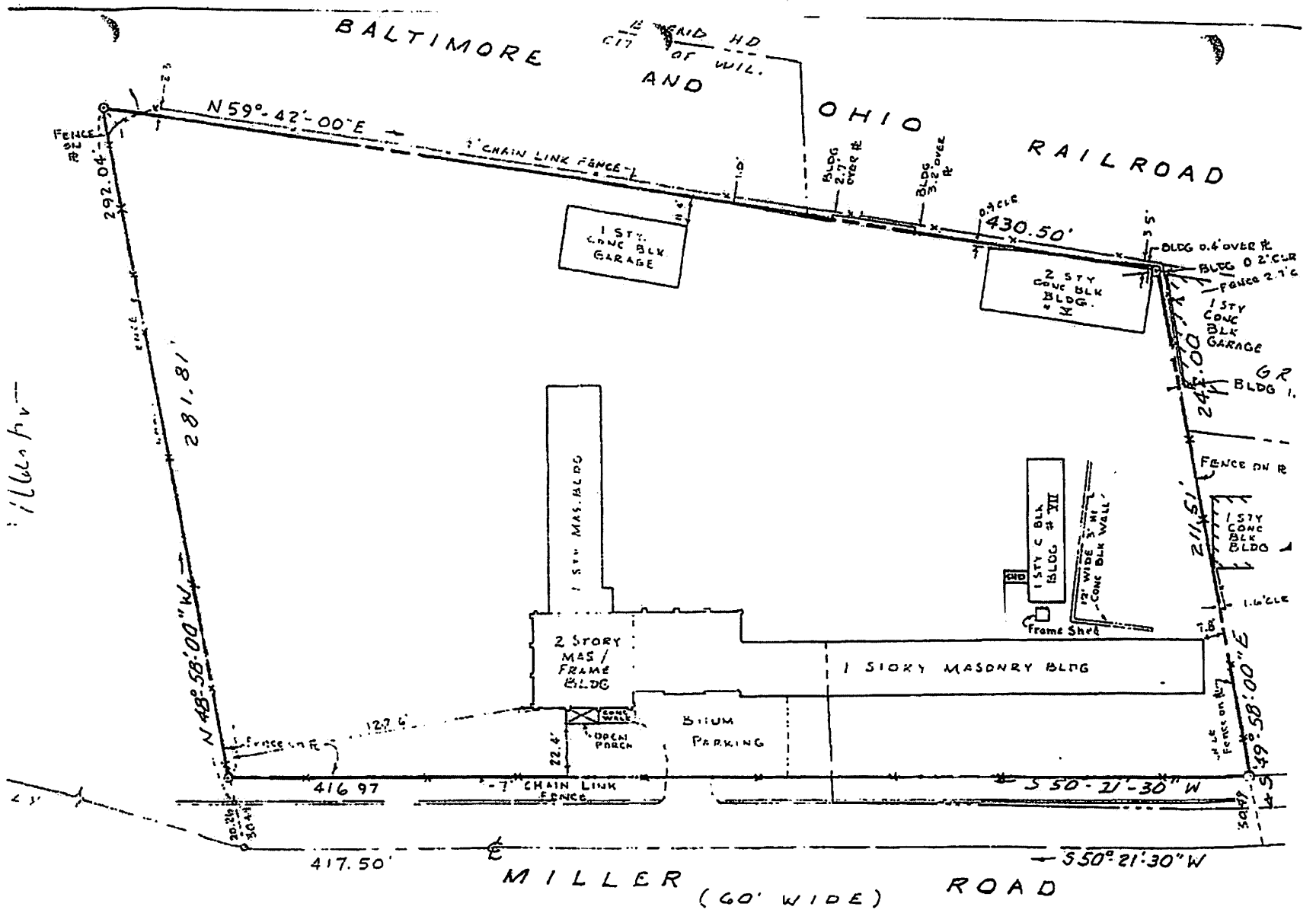


Miller Road

The Harper -Thiel Electroplating Company
 3201 Miller Road
 Wilmington, DE
 Supplemental Photograph Key - Exterior

-  Demolished
-  Extant





Property Survey
April 14, 2000

Property St
Property
I. P. SINC
3101 Miller Road, City

Note on following page from May 1905, a citation in the Philadelphia Real Estate Record and Builders' Guide, that architect Robeson Lea Perot teamed with master mason Archibald S. Reed almost twelve years before the Miller Road commission for Francis I. DuPont to build the first section of the DuPont Experimental Station along the Brandywine Creek.

Perot also designed a large section of the DuPont Building (10th Street elevation, between Shipley and Orange Streets), a home for Francis G. DuPont, Esq., and several large homes in the Highlands section of Wilmington.

THE PHILADELPHIA REAL ESTATE RECORD

AND BUILDERS' GUIDE.

VOL. XX.—No. 22.

PHILADELPHIA, WEDNESDAY, MAY 31, 1905.

\$5.00 PER YEAR.

THE PHILADELPHIA Real Estate Record AND BUILDERS' GUIDE. PUBLISHED EVERY WEDNESDAY AT 46 North Eleventh Street.

TERMS
One Year in Advance - - - \$5.00
Subscription for less than One Year will not
be received.

JOHN N. GALLAGHER, Publisher.
JAMES J. McBRIDE, City Editor.

PHILADELPHIA, WED'Y, MAY 31, 1905.

ARCHITECTS' NOTES.

It is reported from the officers of the Traders' Trust Company that the project for the erection of a thirteen-story building as originally contemplated at the southeast corner of Juniper and Chestnut streets, will be abandoned, and that in place of the skyscraper a handsome two-story structure, which will be entirely devoted to the offices of the company, will be erected. In accordance with the new proposition, the architect of the original building, Lloyd Titus, Pennsylvania Building, is now engaged on the new plans.

BUILDING and REAL ESTATE NOTES

Lynch Bros., builders, Lippincott Building, request bids for a new bridge and motor house to be erected at Newark, N. J., for the Wayne Iron Works Company.

Thomas Reilly, builder, 1616 Thompson street, has been awarded the contract for alterations to St. Peter's Roman Catholic Church, at Fifth and Girard avenue. Work will cost \$9,000.

Richard Vanclève, builder, 5300 Vine street, will erect an operation of 55 two-story houses at Conestoga and Market streets. They will be built of brick and contain modern improvements and cost \$77,000.

W. John Stevens, builder, has been awarded the contract to make alterations to the residence of Mr. James J. Sill, at Wyncote, Pa., according to the plans of Heacock & Hokinson, architects, 931 Chestnut street.

Robt. Killough, builder, Land Title Building, will erect an operation of 61 two-story houses at Twenty-first and Milfin streets. They will be two stories high, of brick, with all modern improvements, and will cost \$86,100.

Metzgar & Wells, builders, Heed Building, have been awarded the contract to place a new front in the residence of Capt. Johnson Walters, at 4205 Chester avenue, according to the plans of W. Frisby Smith, architect, northeast corner of Broad and Arch streets.

William Steele & Sons, builders, 1600 Arch street, have plans posted for a five-story and basement spinning mill, to be erected at Allegheny avenue and Boudinot and Hurley streets.

It will measure 252x97 feet, and be built of brick and slow burning construction. Bids due June 7th.

Bids have been filed with Wilson, Harris & Richards, architects and engineers, Drexel Building, for the new house for Mr. John Friger, to be erected at Boothwyn, Pa. It will be two and a half stories high, of frame and modern improvements.

A. S. Tourison, builder, 26 South Mole street, has plans posted for alterations and additions to the Germantown Cricket Club, on Manheim street. There is to be a main cricket hall to be built, three stories high, of brick and stone, with all modern appointments.

A. Raymond Raff, builder, 1635 Thompson street, has started work on additions to the factory of Weimer Brothers, at Amber and Abigail streets. Work will cost \$12,000. The addition will be three stories high, of brick. Plans by Stearns & Castor, architects, Stephen Girard Building.

Cramp & Co., Builders, 1421 Filbert street, have plans posted until June 20th for a new postoffice to be built at Niagara Falls, N. Y. It will be two stories high, 61x96 feet, and built of stone. Also for a fireproof laboratory, 25x55 feet, for the National Bureau of Standards, at Washington, D. C.

Arthur Williams & Son, builders, 419 Locust street, have been awarded the contract for alterations and additions to the residence of James F. Hopc, Esq., at 3905 Chestnut street. According to the plans and specifications prepared by Albert W. Dilkes, architect, Mutual Life Building.

P. J. McDevitt, builder, 1918 Cherry street has been awarded the contract to build the new residence for Mrs. Lelia L. Kurtz, on School Lane, above Wissahickon avenue, Germantown. It will be two and a half stories high, 31x41 feet, and be built of stone and cost \$12,000. Plans by Baily & Bassett, architects, 421 Chestnut street.

Wm. R. Brown, 2145 E. Firth street, has been awarded the contract to build the three-story brick office building, 34x40 feet, for C. H. Wheeler Condenser and Pump Company, formerly the Barr Pump Company, at Lehigh and Sedgley avenues (details previously noted), according to the plans and specifications of Ballinger & Perrot, architects and engineers.

A. S. Reed & Bro., builders, at Wilmington, Del., have been awarded the contract to build the experimental station at Newbridge, Del. It will be two stories and basement high, 60x140 feet, and will be built of brick, steel and concrete construction (details previously noted). Plans and specifications by Robeson Lea Perot, architect, Bailey Building, this city.

Henderson & Company, Ltd., and Lynch Bros., builders, have plans posted for the new Post Office to be built at West Chester, Pa. It will be two stories high, of brick, stone and terra-cotta, and interior limestone trimmings. Bids due June 27th. Plans by James Knox Taylor, supervising architect, Treasury Department, Washington.

Jacob Myers & Son, builders, Witherspoon Building, have been awarded the contract to

build the new residence for L. W. A. Giese, Esq., at the southwest corner of Twenty-first and DeLancey Place. It will be four stories high, 25x100 feet, and will be built of brick and stone, with all conveniences. Plans by Duhring, Okie & Ziegler, architects, South Penn Square Building.

Smith, Hardican & Co., builders, Perry Building, have been awarded the contract to build the new house known as Commission 371, at Oak Lane, Philadelphia. It will be two and a half stories high, 58x32 feet, and constructed of stone and half timber and will have all modern improvements. Plans and specifications by Baily & Bassett, architects, 421 Chestnut street.

Frank A. Wallace, builder, at Newark, Del., has been awarded the contract to build the handsome drill, college and gymnasium for the Delaware College, on their grounds at Newark, Del. It will be two stories and basement high, 40x90 feet, and be built of brick and mill construction (details previously noted). Plans and specifications by Robeson Lea Perot, architect, Bailey Building, this city.

Thomas Reilly, builder, 1616 Thompson street, has started work on the new public school to be erected at northwest corner of Rawn and Ditman streets, Tacony. It will be two stories high, 116x59 feet, and will be built of brick and stone and contain eight class rooms and have all modern improvements. The plans are by J. Horace Cook, architect for the Board of Education.

Bids have been filed by Alex. Chambley, E. J. Kreitzburg, P. J. Hurley, Hill and Stevens and M. E. Hauser, builders, for a three-story stone and shingle residence for J. Brown Harrison, Esq., according to the plans and specifications of Charles E. Oelschlager, architect, Harrison Building. The same architect has made plans and specifications for extensive alterations and addition to 1509 South Broad street. Work will be done by sub-contracts.

Melody & Keating, Bailey Building, have been awarded the contract to build the four-story Seminary and addition to the Chapel of St. Vincent De Paul, at Chelton Avenue and Musgrove Street, Germantown. The new building will be four stories and basement, length 101x73 feet and be built of stone with every up-to-date improvement, which is estimated to cost \$48,000. Plans by Baldwin & Pennington, architects, Baltimore, Md.

W. R. Dougherty, builder, 1604 Sansom street, has plans posted for a round-house and oil-house for the United Railway of New Jersey, to be built at West Morrisville, N. J. Also a new home for the Messiah Universalist Home, to be built at the southeast corner of York road and Ruscomb street. It will be three stories high, of stone, with all up-to-date improvements. Bids due May 31st. Plans by Furness Evans & Co., 401 Chestnut street. Also plans from C. E. Rahn, architects, 410 Walnut street, for alterations to 11 and 13 South Fifty-second street, for John C. Knox. Plans provide for converting same into offices on the first floor and flats on second. Bids due June 3d.

NEW JERSEY

1916166

Contracts Awarded

Factory Building, Camden, N. J., \$475,000. Architects, Ballinger & Perrot, 1709 Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 7 stories, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, metal sash and frames, safety frisks, elevator. Contract awarded to Irwin & Leighton, 125 North Twelfth street, Philadelphia.

Store and Apartments, Bridgeton, N. J., \$25,000. Architects, Onster & Seltzer, 304 Market street, Camden, N. J. Owner, Richard H. Miller, Bridgeton, N. J. Brick, 2 stories, 10x14 foot, slag roof, hot water heating, combination lighting, composition floors. Contract awarded to H. H. Henshaw & Bro., Bridgeton, N. J.

brick, 2 stories; 35x40 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors, dampproofing. Contract awarded to John E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Residence, Garage and Garden, Wilmington, Del., \$50,000. Architects, Wilson Eyre & McViney, 1008 Spruce street, Philadelphia. Owner, Frank G. Tallman, 1109 Broome street, Wilmington, Del. Brick, hollow tile and plaster, 2 1/2 stories, 7x9 1/2 feet, shingle roof, hot water heating, electric lighting, waterproofing and dampproofing, tile work, metal weather strips, clothes drawers, cork tile floors, oak floors. Contract awarded to Edward Johnson & Son, 1111 Harrison street, Wilmington, Del.

Miscellaneous Construction News

Chemical Laboratory, Wilmington, Del. Architect, Robeson L. Perot, 34 South Seventh street, Philadelphia. Owner, Francis I. Du Pont, 1620 Delaware avenue, Wilmington, Del. Brick and terra cotta, hollow tile, 1 story, 63x121 feet, asphalt shingles roof, tile work, composition and yellow plumb floors, metal lath, heating and electric work reserved. Architect taking bids, due April 3d. The following are figuring: Elfreth & Co., 1708 Sansom street; Pomeroy Const. Co., 1609 Ransstead street, Philadelphia; A. S. Reed & Bro. Co., 615 Shipley street, Wilmington, Del.

Residence and Garage, Wilmington, Del. Architect, Robeson L. Perot, 34 South Seventh street, Philadelphia. Owner, name withheld. Stone, 2 1/2 stories, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Architect will take bids in about two weeks.

Auditorium Building, Savannah, Ga. Architect, Hon. R. Wallis, Savannah, Ga. Owners, City of Savannah, Savannah, Ga. Brick, limestone, granite; terra cotta, steel and reinforced concrete, 4 stories, 105x138 feet, slag plate and tile roof, Olin's Wires lath, dampproofing, composition and maple floors, ornamental iron work, heating, plumbing and electric work separated bids. Owners taking bids, due April 4th. Irwin & Leighton, 125 North Twelfth street, Philadelphia, are figuring. Plans may be obtained from architect on deposit of \$25.00.

Residence, Woodbury Falls, N. Y. Architects, Newman & Harris, 1123 Broadway, New York City. Owner, Charles E. Rusmore, 40 Wall street, New York City. Stone and terra cotta, 2 stories, 26x36 feet, tile roof, metal lath, oak floors, tile work, electric lighting, vacuum cleaner piping, waterproofing, heating reserved. Architects have received bids.

Residence, Wilmington, Del., \$10,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mrs. Joseph A. Rowe, 809 Adams street, Wilmington. Brick, stone trimmings, 2 stories, 30x30 feet, slate roof, vapor vacuum heating, electric lighting, tile work, hardwood floors, metal lath. Plans about completed. Architect will take bids in a few days.

Department Store (alt. and add.), Wilmington, Del., \$35,000. Architects, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Draughtstein & Co., Wilmington, Del. Brick, terra cotta and steel, 2 stories, 48x160 feet, tin roof, steam heating, electric lighting, tile work, metal lath. A. S. Reed & Bro. Co., 615 Shipley street, Wilmington, Del., were lowest bidders. Plans may be revised.

Warehouse and Sheds, Savannah, Ga. Architect, J. B. Sirjins, Greenville, S. C. Owners, Savannah Warehouse and Compress Co., Savannah, Ga. Consists of 10 sheds, 75x580 feet each, warehouses, 400x300 feet each, with steel and concrete, Barrett's asbestos roofs, cement and concrete floors, wood pile foundations. Architect has received bids.

Service Building, Wilmington, Del. Architect, Leon Wilde Crawford, Odd Fellows Temple, Wilmington. Owners, Delaware Motor Sales Co., Wilmington, Del. Reinforced concrete, brick and terra cotta, 2 stories, 132x123 feet, slag roof, electric lighting, metal sash, metal lath, heating, plumbing, tile work and elevators reserved. Architect taking bids, due April 3rd. Metzger & Fisher, Donckin Building, and Pomeroy Construction Co., 1609 Ransstead street, and H. L. Brown, 1714 Sansom street, Philadelphia, are figuring.

Hospital (add.), Farnhurst, Del., \$80,000. Architect, Leon Wilde Crawford, Odd Fellows Temple, Wilmington. Owners, Delaware State Hospital for Insane, Farnhurst, Del. Brick, reinforced concrete floors, 3 stories, 61x173 feet, slate roof, metal lath, waterproofing (plumbing, heating and electric work separate bids). Owners taking bids, due April 4th at 4.30 P. M. Pomeroy Construction Co., 1609 Ransstead street; Metzger & Fisher, Donckin Building; H. L. Brown, 1714 Sansom street, all of Philadelphia, are figuring.

School (alt. and add.), Brandywine Hundred, Del. Architects, Brawn & Whiteside, Dupont Building, Wilmington. Owners, The Dupont School, on premises. Stone, hollow tile and reinforced concrete floors, 2 stories, 75x98 feet, shingle roof, waterproofing, maple floors, tile and marble work, metal lath, steel lockers, iron stairs, slate blackboards. Architects taking bids, due April 1st. Pomeroy Construction Co., 1609 Ransstead street, and H. L. Brown, 1714 Sansom street, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington. Owners, Misses B. Wood, 2214 Glyn Avenue, Wilmington. Hollow tile and

Maryland Construction News

Residence, Guilford, Baltimore, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore. Owners, Roland Park Co., Munsey Building, Baltimore. Frame and stucco, 2 1/2 stories, slate roof, hot water heating, electric lighting, plumbing and plastering. Plans about completed. Architect will take bids in about ten days.

Residence, Gilman Country School, above Roland Park, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore. Owners, Gilman Country School, on premises. Stone, 2 1/2 stories, slate roof, hot water heating, electric lighting, tile bath, hardwood floors, marble trimmings. Plans in progress. Architect will be ready for bids in about two weeks.

Residence, Ten Hills, Md., \$2,500. Architect, George E. Morris, Title Building, Baltimore. Owner, Charles Reeder, Fidelity Building, Baltimore. Frame, 2 1/2 stories, electric lighting. Architect will take sub-bid on all lines.

Residence (alt. and add.) and Garage, Cold Spring Lane and Hawthorn road, Roland Park, Md. Architect, Walter M. Gieske, Gunther Building, Baltimore. Owner, F. B. V. Williams, president, Finance and Guaranty Co., Calvert and Roland Park. Consists of general interior and exterior alterations, new wing, porches, hot water heating, new bath rooms; garage, 1 story, frame. Plans in progress.

Maryland

Contracts Awarded

Residence, Whitfield road, Guilford, Md. Architects, Elliott & Emmart, Union Trust Building, Baltimore. Owner, Dr. J. T. Geraghty, 411 Professional Building, Baltimore. Hollow tile and stucco, 2 1/2 stories, 50x40 feet, tile roof, vacuum vapor heating, electric lighting, concrete foundations, tile work. Contract awarded to Gabelteller & Chambers, 223 Re Land avenue.

Garage, Cathedral street, near Mt. Royal avenue, Baltimore. Architects, Oliver B. Wight, Munsey Building. Owner, J. Wilson Leake, 314 Fidelity Building, Baltimore. Limestone, Auto Car Sales and Service Co., on premises. Brick and steel, 4 stories, 48x130 feet, slag roof, steam heating, electric lighting, freight elevator. Contract awarded to R. F. Bennett Building Co., 123 South Howard street, Baltimore.

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as a grade of successful men have learned.

O. W. KETCHAM

Manufacturer of

**Ornamental Terra
Cotta****Face Brick****Hollow Tile****Paving Brick****Roofing Tile**Philadelphia, 24 S. Seventh St.
New York, 1170 Broadway
Baltimore, American Building
Washington, Home Life Building**Terra Cotta Works, Crum Lynne, Pa.****MITCHELL BROS.****Carpenters, Builders and Contractors**

2125 Race St., Phila.

Bell, Locust 812 Keystone, Race 29-84

HARRY C. EISENBISE CO.**Consulting Engineers**

1302 Pennsylvania Bldg., Phila.

PHONE SPRUCE, 62-91

ADOLPH CHRISTENSEN**CONTRACTOR****In Pointing and Renovating
Stone, Brick and Terra-
Cotta Work****Cementing and Rough Casting****1433 Brown St., Philadelphia, Pa.****The Originator of the New Method
of Renovating Bricks****POMEROY CONSTRUCTION CO.****Building Construction**

Let us figure on YOUR building work

1609 Ranstead Street, Phila.

Architectural Iron Work**ALBEE & GODFREY CO., Inc.**

Shops, Brooklyn, N. Y.

Structural Steel**PITTSBURGH BRIDGE AND IRON WORKS**

Shops, Rochester, Pa.

District Representative

JAMES G. MADDEN

1011 Franklin Bank Building

Bell Phone, Walnut 4344
Keystone Phone, Race 2718

Philadelphia, Pa.

G. Oberholtzer, Fort Washington, Pa. Brick and plaster, 2½ stories, slate and tin roof, hot water heating, electric lighting. Contract awarded to David McCork, Flourtown, Pa.

**NEW JERSEY
Construction News****Residence, Trenton, N. J.** Architect, Walter Thomas Mayo, Seventeenth and Chestnut streets, Philadelphia. Owner, William L. Allfather, 204 Rosemont street, Trenton, N. J. Hollow tile and stucco, 2½ stories, 30x40 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Plans about completed. Architect will take bids in one week.**Dairy Buildings, Julietstown, N. J.** Architects, Edward Burnett & F. S. Marlow, 11 East Twenty-fourth street, New York City. Owner, Dr. James Bishop, Julietstown, N. J. Stone and concrete, 1 and 2 stories. Dairy building, 48x80 feet and 24x14 feet; power

house, 60x45 feet; milking barn, 73x46 feet; cow sheds, 160x141 feet; storehouse, 78x40 feet; asbestos roof, Clinton wire lath, waterproofing, roof ventilators, iron stairs, steel sash, hollow metal doors. Architects have received bids.

Cottage, Cape May, N. J., \$9,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, F. L. Harding, 6342 Drexel Road, Philadelphia. Frame and stucco, 2½ stories, 26x50 feet, shingle roof, electric lighting. Plans in progress. Architects will take bids in about two weeks.**NEW JERSEY****Contracts Awarded****School, Berlin, N. J.** Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, care of William C. Haines, Berlin, N. J. Brick, 1 story, slate roof, electric lighting, steam heating. Contract awarded to Charles D. Burns, Drexel Building, Philadelphia.**School Building, West Berlin, N. J.** Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Wm. C. Haines, District Clerk, Berlin. Brick, 1 story, slate roof (warm air heating, plumbing and electric work separate bids). Contract awarded to Charles D. Burns, Drexel Building, Philadelphia.**Miscellaneous Construction News****College Buildings, Morgantown, W. Va., \$200,000.** Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, University of West Virginia, State Board of Control, Charleston, W. Va. Consists of two buildings, dormitory, 2 stories; agricultural building, 2 stories, brick, stone, concrete and steel, fireproof, details not yet decided. Plans in progress.**Laboratory Building, Wilmington, Del.** Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner's name withheld. Brick, terra cotta, concrete and steel, 1 story, 90x110 feet, steam heating, electric lighting, tile work, metal lath. Plans about completed. Architect will take bids in about two weeks.**Miscellaneous Contracts Awarded****Residence (alt. and add.), Wilmington, Del.** Architect, Albert D. Dilks, 1001 Chestnut street, Philadelphia. Owner, Mrs. Wm. K. Du Pont, Wilmington, Del. Hollow tile and brick, fireproof, steam heating, electric lighting, tile work, hardwood floors. Contract awarded to Wm. D. Haddock & Co., 804 Orange street, Wilmington, Del., who are taking sub-bids.**Theatre (add.), Wilmington, Del., \$8,000.** Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, United Developing Co., Wilmington, Del. Brick, 2 stories, 32x56 feet, slag roof, steam heating, electric lighting. Contract awarded to M. Tomczyk, 1209 Maple street, Wilmington.**Residence and Garage, Wilmington, Del.** Architects, Brown & Whiteside, Dupont Building, Wilmington. Owner, Richard O. Cooke, 2204 Shallcross avenue, Wilmington. Hollow tile, stucco and stone, 2½ stories, 25x45 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors, metal lath,

dampproofing. Contract awarded to John E. Healy & Son, 707 Tatal street, Wilmington, Del.

Residence, Wilmington, Del. Architect, Edward Canby May, Dupont Building, Wilmington. Owner, architect. Brick and stucco, 2 stories, 60x24 feet, slate roof, vapor heating, electric lighting, hardwood floors, tile work. Contract awarded to W. Howard May, 1014 Rodney street, Wilmington, Del.**Residence (alt. and add.), Wilmington, Del.** Architect, Roscoe O. Tindall, Equitable Building, Wilmington, Del. Owner's name withheld. Electric lighting, hardwood floors. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

"THE ACKNOWLEDGED STANDARD"
ROEBLING WIRE LATH

The Best Plaster Foundation for all classes of Buildings
 New Illustrated Catalogue No. 1432 mailed on request.

The New Jersey Wire Cloth Co.

Manufacturers and Distributors of

ROEBLING WIRE LATH, WIRE CLOTH, NETTING, FENCING AND WIRE WORK
Main Office, Trenton, N. J.

OFFICES AND STORES: 627 Market Street, Philadelphia, Pa., 210 Fulton Street, New York City
 93 and 95 Pearl Street, Boston, Mass.

Immediate Delivery of Lath, Cloth, Netting, etc., from any of Our Stores

proofing, waterproofing, metal lath, two elevators, roof ventilators, iron stairs. Architect taking bids, due July 12th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Passenger Station, Wapakoneta, Ohio. Engineer, M. A. Long, Baltimore and Ohio Building, Baltimore, Md. Owners, the Cincinnati, Hamilton and Dayton Railway Co. (Baltimore and Ohio Railroad Co.), Baltimore, Md. Brick, 1 story, 70x20 feet, tile roof, steam heating,

metal lath, dampproofing, tile and marble work. Owners taking bids, due July 10th. Roydhouse-Arey Co., Fidelity Building, Philadelphia, are figuring.

Experimental Buildings (2), Wilmington, Del. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, Francis I. DuPont, Wilmington, Del. Frame and plaster, 1 story, 16x32 feet each, asbestos shingle roof, metal lath. Contract awarded to A. S. Reed & Bro., 315 Shipley street, Wilmington, Del.

MARYLAND
Construction News

Studio, Linden avenue above Whitelock st., Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Bacharach Photographic Studios, Baltimore, Md. Brick and concrete, 2 or 3 stories, 40x90 feet, slag roof, hot water heating, electric lighting. Plans in progress. Will take bids in about three weeks.

Apartment, Pimlico Circle, near Reisters-town road, Baltimore, Md. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owner, John J. Carlin, 217 St. Paul street, Baltimore, Md. Brick, concrete, stone trimmings, 3 stories, 46x160 feet, tile or slag roof, steam heating, electric and gas lighting, six dumb waiters, tile and terrazzo floors. Plans in progress.

Apartment House, University Parkway and Roland avenue, Baltimore, Md., \$85,000. Architect, Edw. L. Palmer, Munsey Building, Baltimore, Md. Owners, Kensington Apartment Co., on premises. Brick, 4 stories, slate roof, steam heating, electric lighting, tile work. Plans in progress.

Laboratory (add.), Broadway and Manumment streets, Baltimore, Md. Architects, Archer & Allen, 3 East Lexington street, Baltimore, Md. Owners, Johns Hopkins Hospital, on premises. Brick, 1 story. Plans completed. Architects ready for bids.

Guild House, Columbia avenue and Colleder streets, Baltimore, Md. Architects, Smith & May, Calvert Building, Baltimore, Md. Owners, St. Paul Guild House, Rev. Arthur B. Kinsolving, 24 West Saratoga street, Baltimore, Md. Brick, 2 stories, 122x126 feet, slag roof, dampproofing, metal sash, reinforced concrete work (heating, plumbing and electric work reserved. Architects taking bids, due July 6th. The following are figuring: Edw. Brady & Son, 1109 Cathedral

street; Cowan Building Co., 106 West Madison street; Consolidated Eng. Co., Calvert Building; Clarence Stubbs, Equitable Building; W. E. Burnham, Law Building; B. F. Bennett Building Co., 123 South Howard street; D. M. Andrews Co., Mt. Vernon and Twenty-sixth streets, Philadelphia.

Building, McComas street, Baltimore, Md. Architect, F. L. Simon, Commerce and Water streets, Baltimore, Md. Owners, Coastwise Shipbuilding Co., Fidelity Building, Baltimore. Concrete, steel and frame, 3 stories, 41x200 feet, metal roof, plumbing. Owners have received bids.

Factory Buildings, Bayard and Keyser streets, Baltimore. Architect, J. E. Moxley, Jr., 1709 Edmondson avenue, Baltimore. Owners, H. B. Davis Co., Keyser Building, Baltimore, Md. Brick and concrete, 1 story, 16x24 feet, 1 story; 22x24 feet, 1 story; 22x23 feet, 1 1/2 stories, 27x50 feet. Architect taking bids, due July 12th. The following are figuring: C. E. Stubbs, Equitable Building; Thos. B. Stanfield & Co., 212 Clay street; West Const. Co., Knickerbocker Building; B. F. Bennett Building Co., 123 South Howard street; John Waters Building Co., 23 East Center street.

Sub-station, Belvidere avenue, Baltimore, Md. Architects, Francis Francis E. Tormey, Gunther Building, Baltimore, Md. Owners, Maryland E. R. Co., Continental Building, Baltimore, Md. Concrete, 1 story, 49x71 feet, slag roof, steel rolling doors, steel sash, ventilators, metal work, plumbing. Architect has received bids.

Warehouse, 107 Cheapside, Baltimore, Md. Architect, Robert H. S. Hughes, Jr., 104 East Saratoga street, Baltimore, Md. Owners, Drury, Lazenby & Co., 108 South street, Baltimore, Md. Brick, 5 stories, 65x23 feet, slag

GRAHAM-CAMPION CO.
Building Construction

That Satisfies Architects and Owners

1215 FILBERT ST., PHILADELPHIA

Superior Wood Work

Manufacturers of every description of Planing Mill Work and Hardwood Interior Finish.



Prices

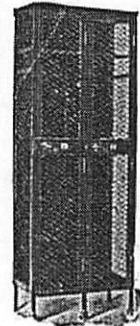
Right

Deliveries

Prompt

PENN PLANING MILL CO., Inc.
 Main Offices and Works
 READING, PA.

Pen-Dar Metal Lockers



Wire Work, Grilles
 Iron and Brass Guards
 for Banks, Offices,
 etc., Elevator Enclosures,
 Window Guards,
 Iron, Galvanized and
 Brass Wire Cloth.

Everything in
 Wire and Iron

Edward Darby & Sons Co.
 Incorporated
 233 ARCH ST., PHILADELPHIA



Wells - Soundings
 Test Borings

Artesian Well
 Drilling Co.

Real Estate Trust Building, Philadelphia

HEATING

BOWERS BROS. & CO.

Real Estate Trust Building
 Philadelphia, Pa.

8/2/16

Dormitory and Boiler House, Chestertown, Md. Architect, private plans. Owners, Washington College, James W. Cain, chairman Building Committee, Chestertown, Md. Brick, 3½ stories, 117x108 feet, limestone trimmings, slate roof, slag and terra cotta tile roof, electric lighting, marble work, metal work. Boiler house, 1 story, 44x105 feet. Contract for dormitory awarded to Henry S. Rippel, 7 Clay street, Baltimore, Md., \$44,190. Con-

tract for boiler house awarded to Clarence E. Stubbs, Equitable Building, Baltimore, \$9,800. Residences (6), Sparrows Point, Md. Architects, Bissoll & Sinkler, Bailey Building, Philadelphia. Owners, Maryland Steel Co., Sparrows Point, Md. Hollow tile and plaster, 3 stories, 53x29 feet each, Birds-Pro-slate roofs, hot air heating, electric lighting. Contract awarded to Charles L. Stockhouse Co., Marine Bank Building, Baltimore, Md.

Bungalow, Paoli avenue, west of Pechin st. Cost, \$2,800. E. Hanson (O), Ridge and Ripka avenues. Geo. M. Robinson (O), 515 Conarroe street. Frame, 1 story, 27x38 feet, slate roof. Garage, Sixty-fifth street, east of Woodland avenue. Cost, \$500. Aleck Harkins (O), Sixty-third and Woodland avenue. A. A. Bulmer (O), 6333 Paschall avenue. Brick, 1 story, 17x18 feet, cement floor.

Store, 1226 Race street. Cost, \$5,900. B. Alexander (O), Hale Building, Philadelphia. D. Henwood (O), 1509 Wood street. Brick and stone, 2 stories, 20x100 feet, slag roof.

Garage, Sixty-second street, south of Cedar avenue. Cost, \$7,500. Fred Fling (O), 6049 Catharine street. J. D. Fisher (O), 5718 Market street. Brick, 1 story, 52x200 feet, slag roof, cement floors.

Garage, southwest corner of Clementine and Miller streets, \$550. Barth. Faurek (O), on premises. J. W. Zanyazok (O), 3169 Tilton street. Brick, 1 story, 13x17 feet, slag roof, cement floor.

Garage, southeast corner Sixty-first and Carpenter streets, \$495. James Germell (O), on premises. George B. Mitchell (O), 1514 Cambridge street. Brick, 1 story, 11x20 feet.

Garage, northwest corner of Forty-seventh street and Paschall avenue, \$9,000. Ribert Chalfont (O), on premises. Loos & Dohard (O), Commercial Trust Building. Brick, 1 story, 53x123 feet, slag roof.

Residences (21) and Store, Wakeling and Edmund streets, \$55,000. C. Emory Starner (O and O), 2847 North Twenty-seventh street. Brick, 2 stories, 15x23 feet, slag roof, hot water heat.

Residences (7), Peach street and Lansdowne avenue, \$17,000. Calvin W. Rogers (O and O), 237 South Forty-ninth street. Brick and stone, 2 stories, 14x26 feet, gravel roof, hot water heat.

Church, southeast corner of Orthodox street and Torresdale avenue, \$30,000. Orthodox M. E. Church (O), on premises. George Barham Bond (O), Sixty-sixth avenue and Thirteenth street, Oak Lane. Stone, 2 stories, 69x100 feet, slate roof, steam heat.

Residence, Fifty-third street, south of Woodbine avenue, \$6,000. Elizabeth A. Wood (O), 3210 Columbia avenue. Robert Wood (O), 3210 Columbia avenue. Stone, 3 stories, 28x40 feet, slate roof, hot water heat.

Residences (27), Sixty-second and Spruce streets, \$71,600. Harry Green (O), 1511 South Fifth street. Herman Becharoff (O), 5156 Haverford avenue. Brick, 2 stories, 16x30 feet and 18x50 feet, slag roof, hot water heat.

Garage, northeast corner Springfield avenue and Farson street, \$5,000. H. N. Diesel (O and O), 5039 Springfield avenue. Brick, 1 and 2 stories, slag roof, steam heat, cement floor.

Wagon Shed, Victoria and Bath streets, \$350. Charles Morlock (O and O), 2873 East Venango street. Open shed, 24x40 feet, slag roof.

Garage, Fifteenth and Courtland streets, \$45,000. Strawbridge & Clothier (O), Eighth and Market streets. Stacy Reeves & Sons (O), 2011 Market street. Brick, steel and concrete, 1 story, 100x154 feet, slag roof.

Store, 1830-34 Market street, \$30,000. Chas. Green, trustee (O), 2218 Tioga street. Stacy Reeves & Sons (O), 2011 Market street. Brick, steel and terra cotta, 2 stories, 40x175 feet, slag roof, steam heat.

Garage, 3314 Fairmount avenue, \$1,500.00. Peter J. Gallagher (O and O), 722 North Thirty-sixth street. Brick, 2 stories, 25x70 feet, slag roof, hot water heat, cement floor.

Residences (10), Sixth street, south of Bristol street, \$20,000. Francis B. J. Brana-

Miscellaneous Construction News

Residence (alts.), Bellevue, Del. Architects, Guy King & Co., 1513 Walnut street, Philadelphia. Owner, Harold Perot Keen, Bellevue, Del. Stone, 2¼ stories, slate or asbestos shingle roof, hot water heating, electric lighting, tile work. Architects have received bids. Laboratory Building, near Wilmington, Del. Architect, Robeson L. Perot, 34 South Seventeenth street, Philadelphia. Owner, Francis I. duPont, Wilmington, Del. Terra cotta and stucco, 1 story, 132x22 feet and 273x22 feet, Spanish tile roof (heating and lighting reserved). Architect taking bids, due August 4th. The following are figuring: Pomeroy Construction Co., 1709 Ranstead street; El-

fresh & Co., 1708 Sansom street, both of Philadelphia, and W. D. Haddock & Co., and A. S. Reed & Bro., both of Wilmington, Del.

Residence and Garage, Greenville, Del., \$100,000. Architect, Leon Wilde Crawford, Equitable Building, Wilmington. Owner, Eugene E. duPont, Wilmington, Del. Hollow tile and plaster, 2¼ stories. Residence, 95x36 feet; wing, 18x36 feet; garage, 1 story, 43x24 feet, slate roof, metal lath, oak floors, damp-proofing and waterproofing, concrete floors (plumbing, heating, electric work and tile work reserved). Contract awarded to Pomeroy Const. Co., 1609 Ranstead street.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Haines street, east of Chew street. Cost, \$1,200. Wm. C. Kimbor (O), on premises. B. H. McLaughlin (C), 5236 Larchwood avenue. Stone, 1 story, 20x24 feet, metal sash and doors, shingle roof.

Residences (6), Fiftieth street, south of Beaumont street. Cost, \$16,200. Calvin W. Rogers (O and C), 237 South Forty-ninth st. Brick, 2 stories, 16x33 feet, gravel roof, hot water heat.

Residence, 546 Tasker street. Cost, \$1,800. M. Tonkin (O and C), 245 Greenwich street. Brick, 2 stories, 15x26 feet, pitch and gravel roof, steam heat.

Heating Building, southwest corner Sixth and Tabor road. Cost, \$10,000. Phila. Textile Machinery Co. (O), Hancock and Somerset streets. Hennobique Const. Co. (C), care Lee S. Harris, Drexel Building. Brick and reinforced concrete, 1 story, 35x40 feet, slag roof, steam heat.

Garage, 5755 Wayne avenue. Cost, \$450. Chas. J. Hammer (O), 5721 Wayne avenue. Samuel Stubbs (C), 126 W. Courtland street. Brick, 1 story, 26x22 feet.

Power House, Philip street, north of Somerset street. Cost, \$3,000. Hafeigh & Co. (O), American and Somerset streets. Harry Brocklehurst, 512 Norris street. Brick and concrete, 1 story, 70x45 feet, plank roof.

Residence, Bolfield avenue and Wingohick street. Cost, \$6,000. Lashner & Silver (O), 1700 South Fifth street. S. Lashner (O), 1700 South Fifth street. Brick, 2¼ stories, 16x44 feet, slag roof, hot water heat.

Office Building, Ninth and Lindley avenue. Cost, \$500. Owen Hutton (O), Park and Oak Lane avenues. J. Wesley Fretz (O), Thirteenth street and Medary avenue. Brick, 1 story, 13x14 feet.

Garage, 631 South Felton street. Cost, \$3,500. McGarrity & Travis (O), 632 South Sixty-second street. Thos. McGarrity (O), 6230 Catharine street. Brick, 1 story, 50x100 feet, slag roof.

Residences (28), Clearview and Pleasant street. Cost, \$58,000. David Brown (O and O), 2422 South Seventh street. Brick, 2 stories, 15x35 feet and 16x48 feet, slag roofs, hot water heat.

Residences (9), Twentieth street, between Stenton and Sixty-fifth avenues. Cost, \$19,800. Penn Realty & Construction Co. (O and C), Ogontz avenue, above Chelton avenue. Brick, 2 stories, 18x37 feet, slag roof, hot water heat.

Garage, rear of 61 W. Seymour street, on Garfield street. Cost, \$300. L. E. Sweger (O and C), 61 W. Seymour street. Brick, 1 story, 13x16 feet, slag roof.

Manufacturing Building, Stenton and Wyoming avenues. Cost, \$30,000. National Drug Co. (O), Wayne Junction, Philadelphia. Melody & Keating (O), 1218 Chestnut street. Brick and reinforced concrete, 3 stories, 48x25 feet, slag roof.

Service Station, northeast corner Broad and Hunting Park avenue. Cost, \$15,000. Atlantic Refining Co. (O), Philadelphia. Metzger & Fisher (O), Donekka Building. Brick, steel and terra cotta, 1 story, 16x25 feet.

Residences, 2618 Livingston street. Cost, \$1,800. John Jameson (O and O), 2581 E. Huntingdon street. Brick, 2 stories, 14x25 feet, slag roof, hot air heat.

Residences (3), Fountain and Silverwood streets. Cost, \$4,300. John Sloan (O), 7926 Ridge avenue. Geo. M. Robinson (O), 515 Conarroe street. Brick and stone, 2 stories, 15x30 feet, slag roof.

We have pebbles all sizes. Cost less than what you are using. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Use of Hot Water Before Breakfast a Splendid Habit

In places of the system each morning and wash away the viscous, stagnant matter.

Persons who are accustomed to dull and heavy, when we arise, the headache, slurred vision, cold tongue, heavy breath, acid stomach, back pain, indigestion, and feel as if a delay in washing the poison and getting the body with phosphated water each morning.

Should drink before breakfast a cup of real hot water with a teaspoonful of limestone phosphate in solution from the stomach, liver, and in the yards of bowels the pusy day's indigestible waste and the poisonous toxins; thus cleansing and purifying the alimentary tract before putting food into the stomach.

A solution of limestone phosphate hot water on an empty stomach is indelibly ingesting. It cleans the acid fermentations, gases, and acidity and gives one a good appetite for breakfast and will do but a little while until "acids" begin to appear in the blood. A quarter pound of limestone phosphate will cost very little at the store but is sufficient to make one who is bothered with biliousness, constipation, stomach trouble or indigestion a real enthusiast on the subject of internal sanitation. Try it. You are assured that you will feel better and feel better in every respect.

Chinaman Identified. The body of the Chinaman who on the New York express train today night has been identified as Lung Bow, of New Orleans. Chinaman was only 17 years old, was suffering from pulmonary tuberculosis and had been in the "Four Corners" Corner Nicholson relatives in New Orleans, would take the body and it will be shipped there today.

American Navy in Second Place. Thomas F. Logan in Leslie's, a passage of the naval bill, appropriations aggregating \$99,000, is the longest step ever taken by any nation within a given time. Not even Great Britain has ever made such an increase in her navy in one day. The bill which has passed today will add to the American navy four dreadnoughts superior to anything on the seas at the present time, four battle cruisers of the modern type. There also will be other ships, including cruisers, destroyers, submarines, auxiliary ships. It will mark a new era for the navy of the country. The eight battleships will require about 55,000 tons of armor plate. The average requirements of the past have been 20,000 tons a year. The new program should give the three existing armor plants all the work they can do for a long time to come, even if the government has now decided to build a 20,000-ton plant or two. The government plant at Philadelphia is to be "three times as big" as anything like the present. Construction in main-tenance in the navy, there will be for the continuance of the program in spite of the "unwise" move into government ownership.

ARCHITECTS GET IN BIDS ON SMALL JOBS

Plans for Addition to Home of William G. Coxe in Hands of Contractors.

John C. Healey and Sons has the contract for the erection of the two-story brick warehouse for the Speakman Supply and Pipe Company at 222 Tattall street. The building will be 129x24 of fireproof, slow burning construction throughout. It is also preparing bids on the Wilmington Leather Company's new building and on St. Andrew's parish house.

A. S. Reed and Sons, contractors, have commenced the work on the chemical laboratory being built on Miller Road. The building will be two and one story, L-shaped, and was designed by Robeson-Perot, architects of Philadelphia.

The building being erected at Seventh and Shipley streets for the Food-Furniture Company is about 90 per cent finished according to the contractor, A. S. Reed and Sons. It is expected that the company will occupy part of the building this coming week.

Plans for the additions and alterations to be made to the home of William G. Coxe, 1005 Broome street, are in the hands of J. J. Kennedy, the architect. The addition will be three stories and will include kitchens, laundry, pantry and bedrooms. The front of the house is to be renovated and remodeled. These plans and specifications will be in the hands of the contractors today.

Bids have been received by the same architect for the store front to be built at 23 Market street for Needle and Company, tailors. The contract will be awarded within the next few weeks.

Mr. Kennedy announces that bids will be opened soon for the alterations to be made to the apartment house, at 603 Washington street, for William J. Hannigan.

Many of the local contractors are preparing estimates on the six-story building to be erected for the Wilmington Leather Company. This building will be six stories, slow-burning, milled construction throughout. Bids are also being made for the building of a two-story 160x10 feet addition to one of their plants.

The house being erected for Mrs. Victor dePont at Guyencourt will be finished within a few months. The plastering has been done and the exteriors put to place.

The following contractors have bid on the contract for the construction of the Wilmington Leather Company: John Healey and Sons, J. A. Bader and Company, A. S. Reed and Brother Company, W. D. Haddock, Joyce and Kerrigan, C. J. Dougherty, Pyle and Stannard, all of Wilmington. The following Philadelphia contractors have also bid for the same job: James E. Wells, Frank S. Stewart, Hughes-Fouquier, John M. Gill Company, and Bayley and Lush Company. The plans for this building have been drawn by J. J. Kennedy, architect.

E. Cuddy May expects that all the



Edna Hibbard. Well known to Wilmingtonians makes her appearance this season at the Playhouse next Thursday, Friday and Saturday in "Fair and Warmer."

Bids for the Miller Brothers store addition will be in his hands soon.

Final plans for the new Y. W. C. A. Building are also nearing completion in the same office. Plans are in preparation for two colonial houses, one on Second street, east of River-view avenue, the other on Tower Road. He has also the plans for a private garage to be built on the Boulevard.

Edna Hibbard, one of the versatile comedians of the company interpreting "Very Good Eddie" which comes to the Playhouse Friday and Saturday nights and Saturday matinee, October 6th and 7th, has an idea that he is a golf player. His friends have an equally firm conviction that he is not. When he was in St. Louis the other day he went over the beautiful course of the Country Club, accompanied by a bright caddy. He had succeeded in burying his ball in every bunker, corn field, wood lot, gully and stream on or near the links, when he turned to the caddy and said:

"Finally, this is the most difficult course I ever played on." "How do you know?" asked the caddy. "You haven't played on it yet."

"Step This Way." Law Fields will be seen here in his musical comedy success "Step This Way," October 14, at the Playhouse.

As a modern version of his former great success "The Girl Behind the Counter," "Step This Way" is said to be the best vehicle that Mr. Fields

Laura Leonard's Helpful Hints For Housewives

HOUSEWIVES' WEEKLY EXCHANGE.

Mushroom Sauce. Dear Miss Leonard: Will you kindly publish a recipe for mushroom sauce and why?—M. Fitzpatrick.

Your favorite white sauce, cream sauce, brown sauce or drawn butter sauce can easily be transformed into a mushroom sauce by adding to any one of them enough chopped canned or fresh mushrooms to give a good mushroom flavor. When using canned mushrooms, use the can liquor for part of the liquid instead of milk or water. Here is a specific recipe: Blend together in a saucepan one level tablespoonful each of flour and butter. When bubbling, stir in a cupful

of liquid composed of rich milk and the mushroom liquor and heat constantly until you have a smooth white sauce. Season with one-quarter of a teaspoonful of salt, a dash of cayenne and a little celery salt. Add one-half cup of chopped mushroom, chopped. Optional seasonings are the juice of half a lemon and a teaspoonful of Worcestershire sauce. When sherry is approved in cooking, a half teaspoonful of this gives a tasty flavor.

Pickled Beets. A request is sent in by Mrs. J. F. H. for a recipe for pickling beets. I assume that she wants a pickle for immediate table use. Here is a way of pickling much liked in my family: To every two cups of good elder vinegar add one cup of water, three level teaspoonful (or one level tablespoonful) of granulated sugar, six or eight large cloves, a tiny bit of bay leaf and a pinch of mace or allspice. Let the sliced beets marinate in this for at least twenty-four hours before using.

Blueberry Jelly. Vacation time must be my excuse for having delayed a reply to M. B. H., who asked for a recipe for blueberry jelly. This made as any other jelly. I feel sure that any housekeeper will be pleased with jelly made from blueberries. Try first with one box or quart of berries. This will make three tumblers of a good firm jelly, and if one is careful and boils the pulp three times and if the berries

FUTURE OFFERINGS AT THE PLAYHOUSE

Dave Ferguson Will be Here October 6 and 7, in "Very Good Eddie."

"Fair and Warmer," the farce by Avery Hopwood, which a year of unparalleled success on Broadway made famous in every port of the country, will be presented by Selwyn & Company at the Playhouse on September 21, 22 and 23. This extraordinary farce, which drew its public from every social stratum, every intellectual stratum and every group of wealth or lack of it, made history in every month of its long New York run. Its most conspicuous distinction was to make even more money at the Eltinge Theatre than "Within the Law."

Selwyn & Company will present it here with an excellent cast of farcours, including Sager Mizgely, Lilian Horne, Harlan Tucker, Edna Hubbard, well known here, Miriam Masters, John Trevor and Ralph Simon.

"Rich Man, Poor Man." George Broadhurst's latest play, is founded on the story of the same name, by Maxmillian Foster. The fact that George Broadhurst thought it worth while to dramatize it is evidence that it is a good story. As a matter of fact after the second installment of the story appeared in a popular magazine a number of managers and authors were bidding for it, only to find that George Broadhurst had pre-empted them and secured the prize. Wilmington will soon have the opportunity of passing its verdict on the play as it is to be given in The Playhouse for three nights and a matinee beginning Monday, September 26.

"Very Good Eddie." Dave Ferguson, one of the versatile comedians of the company interpreting "Very Good Eddie" which comes to the Playhouse Friday and Saturday nights and Saturday matinee, October 6th and 7th, has an idea that he is a golf player. His friends have an equally firm conviction that he is not. When he was in St. Louis the other day he went over the beautiful course of the Country Club, accompanied by a bright caddy. He had succeeded in burying his ball in every bunker, corn field, wood lot, gully and stream on or near the links, when he turned to the caddy and said:

"Finally, this is the most difficult course I ever played on." "How do you know?" asked the caddy. "You haven't played on it yet."

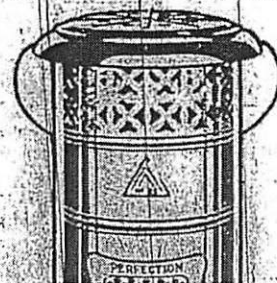
"Step This Way." Law Fields will be seen here in his musical comedy success "Step This Way," October 14, at the Playhouse. As a modern version of his former great success "The Girl Behind the Counter," "Step This Way" is said to be the best vehicle that Mr. Fields

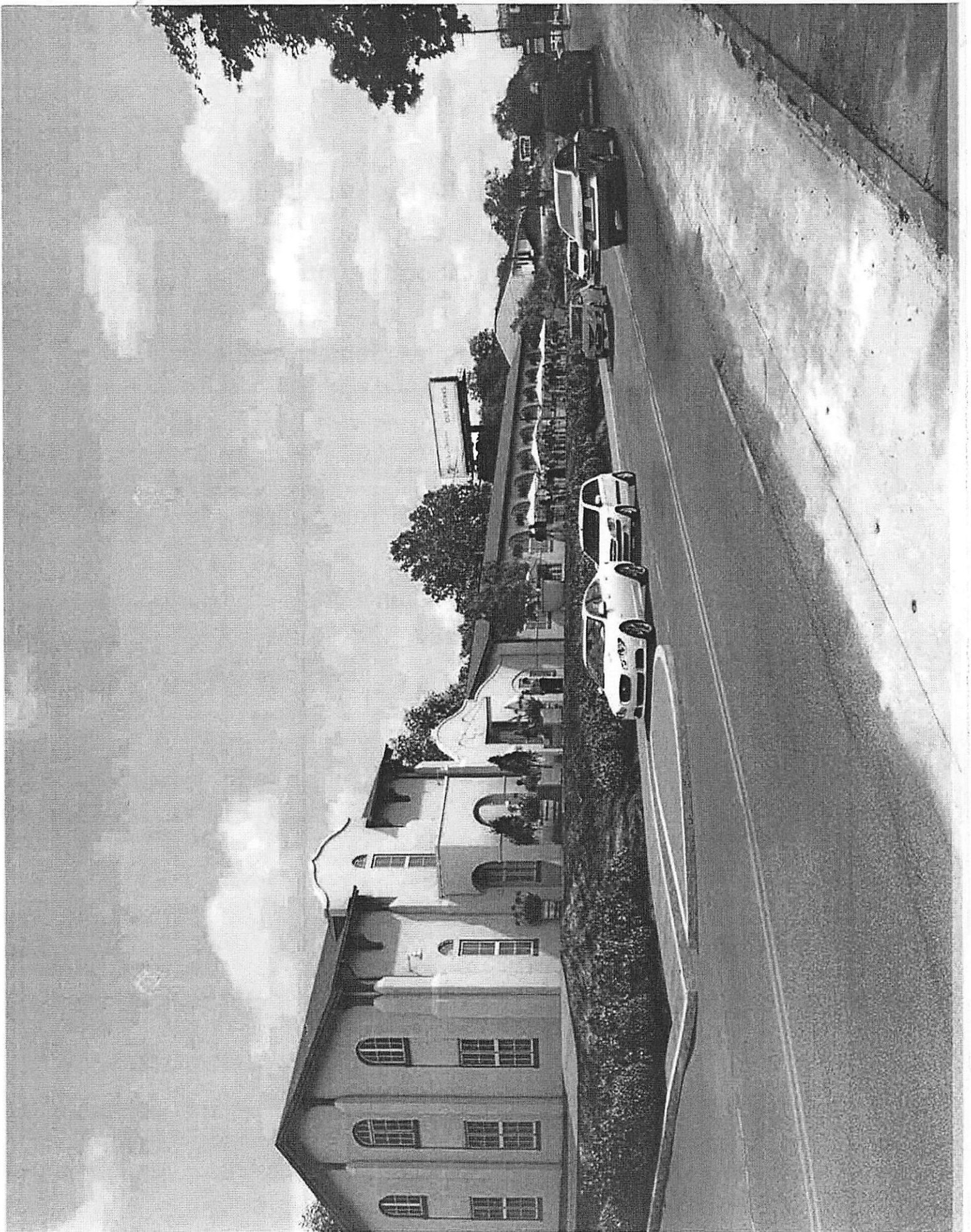
Victoria "Uptown" Theatre

Last Time in Delaware Today,

"THAT SORT"

This production deals with one of the greatest social problems of the day. A big



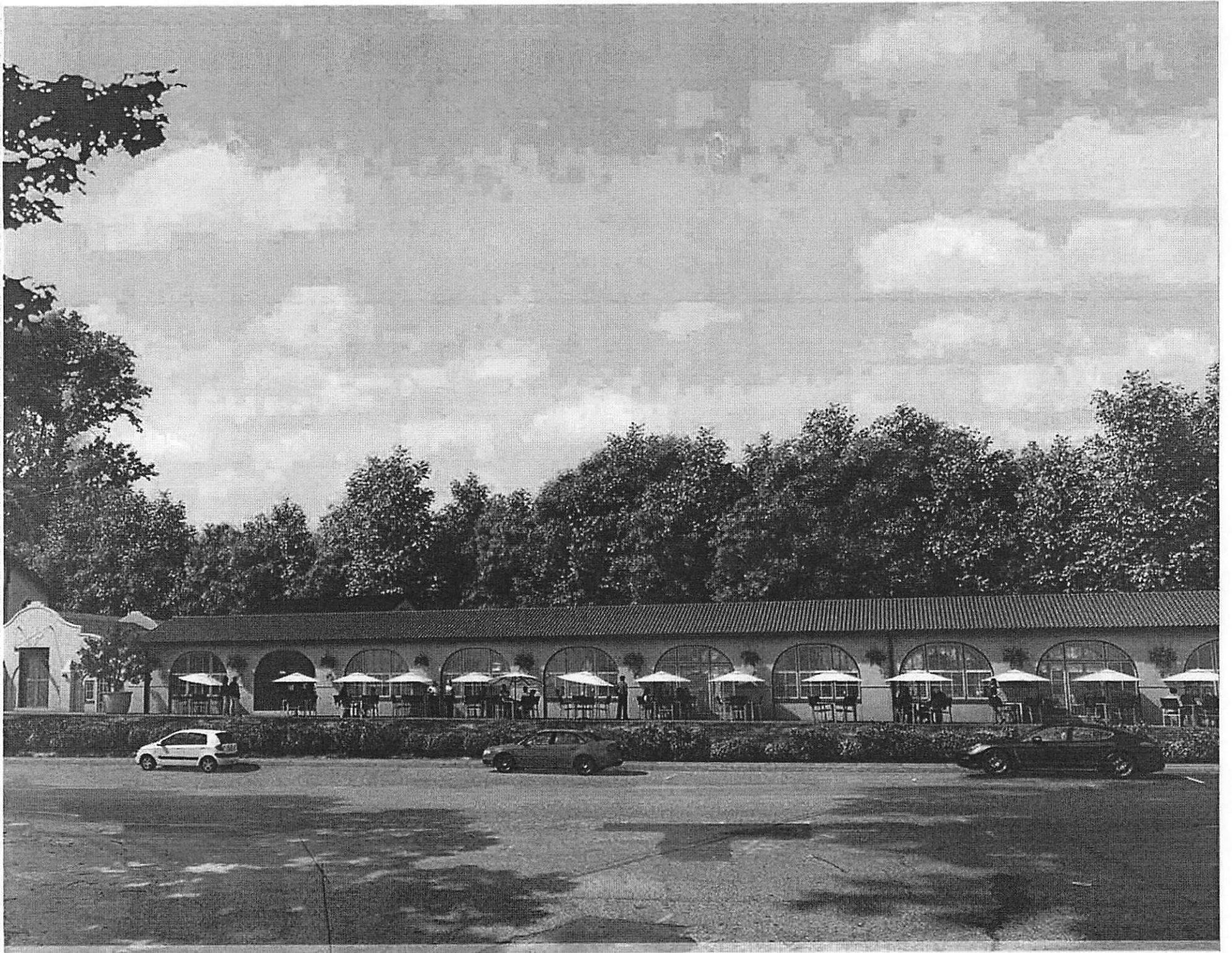


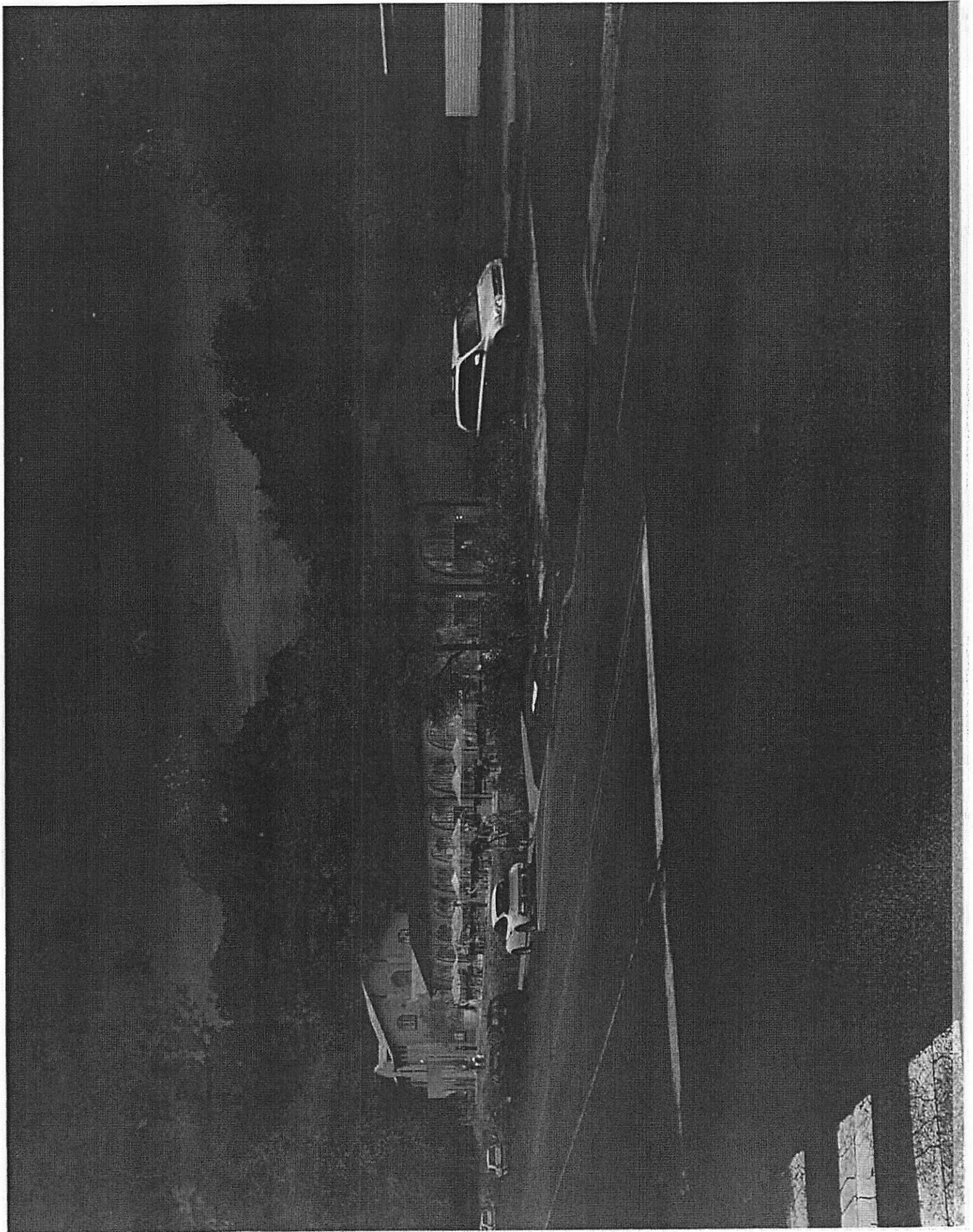
**The following architectural renderings by CADRender, Inc.
illustrate the adaptive reuse concept of the former
Francis I. DuPont Laboratory site**

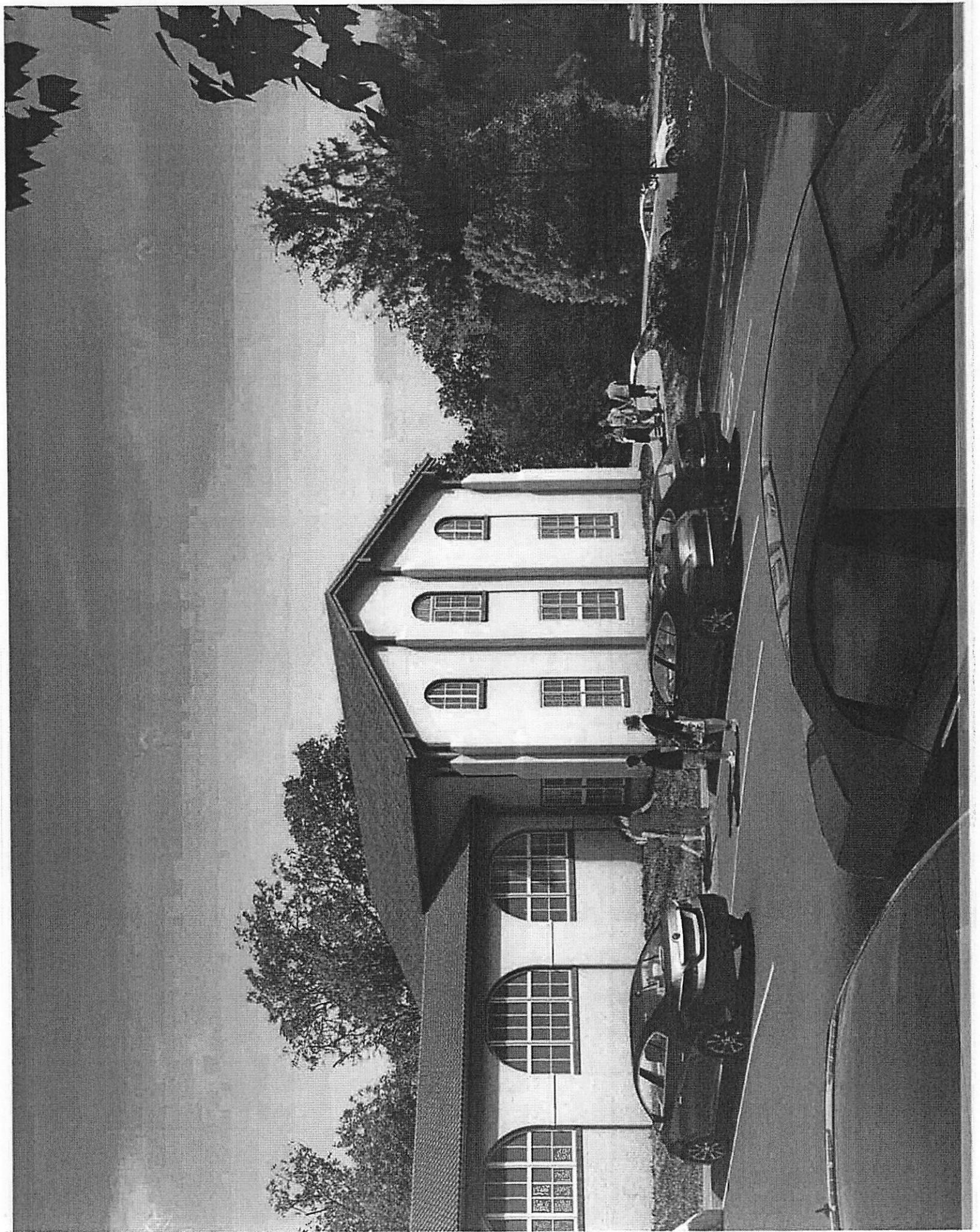
**Initial Name of Renovated Complex (Subject to Change):
The Market at Miller Road**

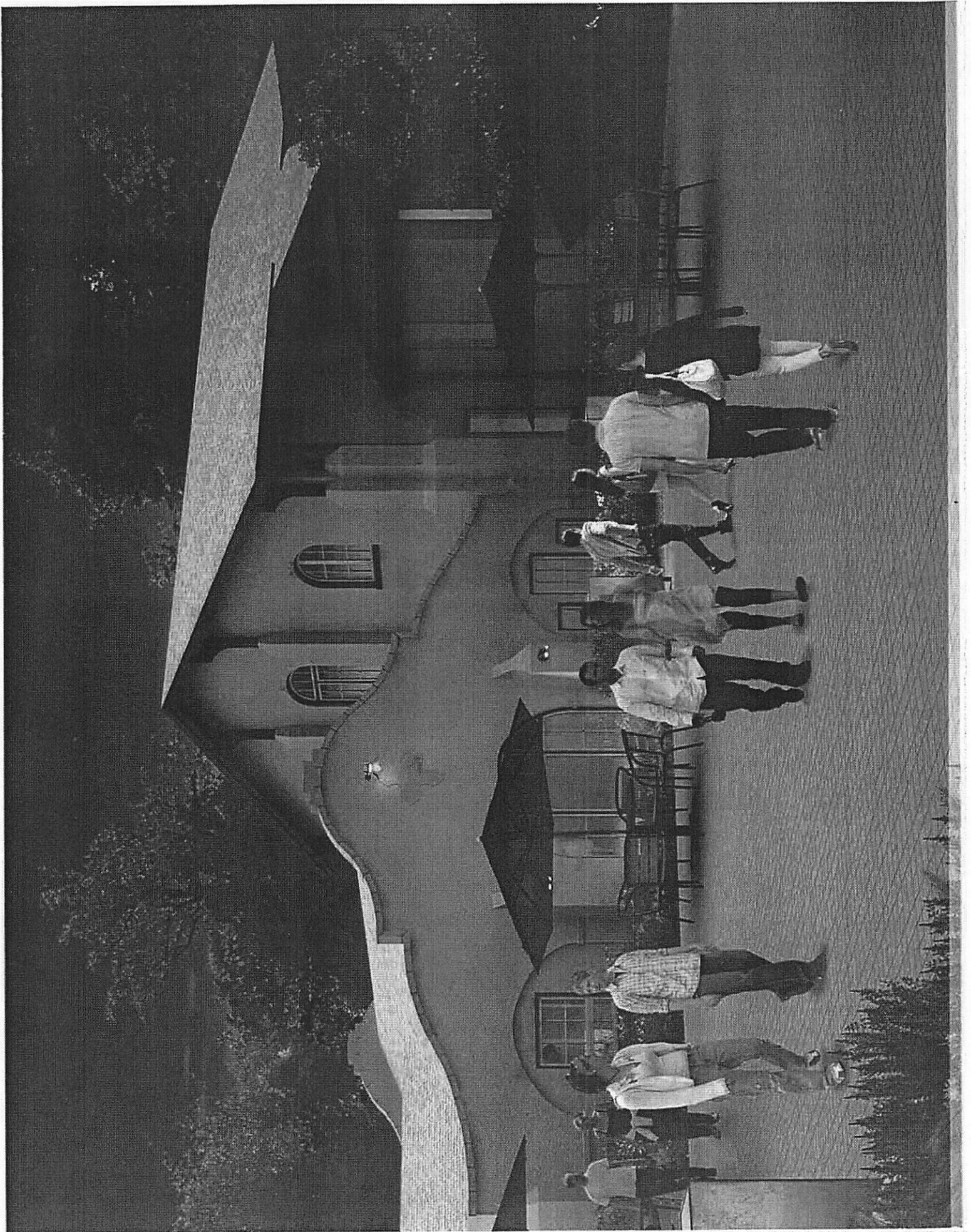
**Anchor Tenant:
Wilmington Brew Works Microbrewery**

**Scheduled Opening:
May 2018**









F. I. duPont Dies Four Days After Brother

Senior Partner of Brokerage Firm Succumbs After Illness of Several Months

Following an illness of several months, Francis Irene duPont, 69, senior partner of the Francis I. duPont and Company brokerage firm of New York and Wilmington, died late yesterday in the Medical Art Hospital New York City. Mr. duPont was also a former vice-president and director of the DuPont Company.

Mr. duPont's brother, Archibald Marion Lesseppe duPont, died Thursday.

A son of Francis Gurney duPont, and Elise Wigfall Simons duPont, Francis duPont was born Dec. 3, 1873, at Montchanin. He entered the class of 1894 at the University of Pennsylvania but transferred to the Sheffield Scientific School at Yale University after suffering an eye injury while conducting an experiment. He graduated from the latter school in 1895.

Joins DuPont Company

On the year of his graduation Mr. duPont started to work for the DuPont Company as a chemist at the Carney's Point smokeless powder works. He became superintendent of the works later.

In 1903 he established and became the first director of the DuPont Company's research and experimental station after which he was elected a vice-president of the company. He remained in the latter position until 1915.

Mr. duPont built his own experimental laboratory, incorporated under the name of the Delaware Chemical Engineering Company in 1917. He was widely known for his research in the field of smokeless powder and it was in this company that he developed a process leading to the organization of the Ball Grain Explosives Company which made fuses in the first World War. He also perfected one of his earlier inventions, the mineral separation process, which was sold to the DuPont Company in 1936. He was an inventor in many fields and held more than 100 patents in his name.

Firm Formed 1931

The investment firm which bears his name was organized in 1931 and has grown until at the present time it has 30 offices in New York City, Philadelphia, and Wilmington with more than 300 employees.

In 1897 Mr. duPont married the former Marianna Rhett of Charleston, S. C. In addition to his wife he is survived by seven children, Emile Francis, now with the E. I. duPont de Nemours & Co., Hubert Irene,

who carries on his work in the Delaware Chemical Engineering Co., Mrs. Earle M. Ehrick of Buenos Aires, Argentina, Mrs. Powell Glass, Jr. of Quantico, Va. and Mrs. Taleasin Davies, Jr. of Denver, Colo., and Edmond and Rhett duPont, of the brokerage firm; a sister, Mrs. Irene duPont of Wilmington and three brothers, A. Felix duPont, Ernest duPont, and E. Paul duPont.

Mr. duPont was a member of the American Philosophical Society, the American Chemical Society, the Chemists Club of New York, the Knights of Pythias, Phi Kappa Sigma Fraternity, and the Wilmington Country Club. He made his home at "Louviers" in Wilmington and in New York.

WPA Orchestra Concert Is Given at Salesianum

A concert was presented this morning before the student body of Salesianum School by the WPA Orchestra, with Carl Elmer conducting. The orchestra will play before another school assembly Thursday in the Williams School at Third and Monroe Streets. The string ensemble will play at a dinner in the Ferris Industrial School tomorrow at 5:45 p. m.

The Negro dance orchestra, with Mrs. Lena Walters, leader, will play at the armory, Chestertown, Md., tomorrow at 3 p. m. and at Camp Miles, Lawes, Thursday night.

Both orchestras are part of the WPA music project under the supervision of Mrs. Clara Jones Ennis. The project now has permanent quarters at 406 West Seventh Street.

Two Women Injured Going to Join Husbands

Mrs. Robert O. Shoe, wife of Colonel Shoe of the Second Army Corps, and Mrs. Guy Talcott, wife of Lieutenant Colonel Talcott of the same division, were injured in an automobile accident recently on their way to Jacksonville, Fla., to join their husbands who are stationed there.

Mrs. Shoe who formerly lived in the Rodney Court Apartment, was driving near Savannah, Ga., when the car struck a pig in the road, turning the car over. Mrs. Shoe was slightly injured, and Mrs. Talcott, formerly of 1407 Gilpin Avenue, was considerably shaken up and bruised. She was in a hospital for several days and is still confined to her bed at her home in Jacksonville. Mrs. Shoe and Mrs. Talcott left Wilmington March 2 to drive to Jacksonville.

Singers Will Rehearse

A business session and rehearsal of the Society for the Encouragement and preservation of Quartet Singing in America, will be held tonight in the Veterans of Foreign Wars Home, 2204 Market Street. The group will rehearse for a minstrel show to be presented in April. Vacancies now exist in the soloists' division, and the society membership list is still open.

Seeks State Senatorship In 3rd Sussex District



Charles S. Workman

Mr. Workman of Laurel today announced his candidacy for nomination for state senator for the third senatorial district of Sussex County, subject to the rules of the Republican Party.

Alden P. Short, Republican, is now senator from this district which comprises the fifth and sixth representative districts.

Players Club to Meet

The Players Club of St. Andrew's Episcopal Church will meet tomorrow night in the rumpus room of the church. Albert Balfour is chairman of the program which will be in the form of a spring frolic.

Dr. Joseph Seay To Pilot Club

Dr. Joseph Seay, legislator, Trenton, N. J., speaker at a dinner of the Pilots Club of Wilmington Hotel DuPont, next at 5:30 o'clock. His "The Spirit of 1842." Lieut.-Col. Charles William defense coordinator, will talk on "Tensa."

Officers and members of the service clubs in the city will be invited to attend the dinner which will be presided over by M. Chandler, president of the Pilots Club. Charles J. Boutwell, in charge of music.

Mrs. Charles T. Claiborne, of the committee planning the program, will hold a coming out at her home, 900 tomorrow night.

Gas Station Attendant Reports \$5

Leland Ross, service attendant at 430 East 7th Street, reported to police yesterday noon that he was robbed of \$5 before 4 o'clock in the morning at the station and used the money to make a call. He made one call, Ross said, before 4 o'clock in the morning and used the money to make another call. When told that he had no change, the attendant went to a nearby tavern.

Ross said he then returned to the station, again started a telephone and after 11 o'clock, the bandit pulled his pocket and demanded money.

Philathea Class to Meet

The Philathea Sunday School Class of Olivet Presbyterian Church will meet at the church and Broom Streets tonight. Hostesses will be Mrs. M. J. Lett, Mrs. Edna Krauss and Anne MacRobert.

One Price! You Can't Pay More!

EYEGLASSES, Frame and Lenses COMPLETE

Choose from 10 modern styles, same or rimless mountings PLUS astigmatism, Crookes tint or Kryptok double-vision lenses... at \$8.75, no higher.

\$8.75

NO UPS! NO EXTRAS!

ROGERS \$8.75 OPTICIAN AND CREDIT JEWELERS

Rogers is the Original One-Price Optical Establishment 407 MARKET ST., WILMINGTON Open Daily 9 A. M. to 6 P. M. Also Fri. & Sat. Nites

ALL THE WORLD LOVES A "HAPPY BLENDING"

monds and the... D. S. H... There will be a turkey... early a luncheon of...

thought is given for safety. Despite the traffic lights on Market St. patrolmen are stationed at the busier corners...

ELECTRICAL STORM ROUTS HEAVY FOG SHROUDING STATE

(Continued from page 1) Judd Rawley, 39 years old, of Bridgeton, N. J. is in the Delaware Hospital with a fracture of the right knee as a result of the locomotive of the Central Railway of New Jersey...

FRANCIS DU PONT GRANTED PATENT

New Invention Involves the Lighting of Auto Instrument Board.

The United States Patent Office today granted a patent to Francis I. du Pont of Wilmington, president of the Delaware Chemical Engineering Company of Miller Road, this city...

The instrument board and method of illumination was developed by Mr. du Pont after a long series of experiments and research. At present Mr. du Pont is out of town and could not be reached...

Patents were also granted to James F. Hooper and Edwin C. Clayton, of Preston Hill, covering a portable swimming pool.

W. A. GANTHROP FUNERAL AT LANCASTER SATURDAY

The funeral of William Allen Ganthrop will be held from his home in Lancaster, Pa. on Saturday and burial will be in a cemetery near that city...

Mr. Ganthrop is survived by his wife, the former Miss Frances Kennedy of this city, and by sons William K. Ganthrop and Herbert H. Ganthrop...

LEGIIONNAIRES TO GIVE BOY SCOUTS DINNER

Monday, January 14, 1930, at 7:30 p. m. the American Legion will give its annual Christmas entertainment and dinner to the Boy Scouts of the Wilmington Council...

FIREMEN INSPECTING CITY

The annual winter inspection of the city by members of the Bureau of Fire is now under way. All streets, alleys and other places...

of which it was impossible to see with a front line stretching from Switzer-land to the North Sea. The old frontier tactics of advance and rear guard were curtailed as the advance was usually of few platoons and the rear was amply guarded by 6000 units of the allied armies...

TO AFFIRM RUMOR

No Definite Promise Yet From E. M. Davis on His Reported Candidacy.

Edward M. Davis, for many years connected with Alfred I. du Pont may be a candidate for the Republican nomination of State Senator from the Third Senatorial District of New Castle County, it was learned today.

Mr. Davis, who is a resident of Rock Manor, has been urged by friends in both Brandwine Hundred and in Christians Hundred, to enter his name in the Republican primary for the office.

CAPELLA CLUB TO Will Take Place of Regular Church Council Broadcast.

Instead of the regular service of the Wilmington Council of Churches, broadcast over WDEL tomorrow evening at 7:30, numbers will be given by the Capella Club from Handel's 'Messiah'...

The choruses will be 'And the Glory of the Lord,' 'Thou that Tellest Good Tidings to Zion,' 'Gloria to God,' and 'Hallelujah.'

The soloists will be Mrs. Clarence Underwood, soprano; Mrs. Ruth Wilson Sachs, contralto; and Arthur Guy, tenor.

Those taking part in the chorals are: Soprano, Mrs. Cole O'Connell; Mrs. Mary Scott Gellery; Mrs. Mary Heller; Miss Helen Latzer; Mrs. Edna Murray; Mrs. Ida L. Seymour; Mrs. E. Walter Smith; Mrs. Clarence Thomas; Mrs. Clarence Underwood; Miss Edna Wilson; Mrs. John Hobb; Woodman; Miss Elizabeth Woodley; Woodman; Miss Susan Adams; Mrs. A. C. Bradley; Mrs. Irene du Pont; Mrs. W. H. Good; Mrs. Virginia Keene; Miss Mary M. Little; Mrs. Ruth Wilson; Mrs. Sara Wilson; Mrs. C. L. O'Connell; Arthur Guy; Clarence Thomas; and Edward H. O'Connell.

BALLANTYNE GREET'S OLD FRIENDS IN CITY

James Ballantyne, president of the Marine Automobile Association, will greet old friends in the Wilmington room of the Hotel Hamilton...

TO AFFIRM RUMOR

No Definite Promise Yet From E. M. Davis on His Reported Candidacy.

Edward M. Davis, for many years connected with Alfred I. du Pont may be a candidate for the Republican nomination of State Senator from the Third Senatorial District of New Castle County, it was learned today.

Mr. Davis, who is a resident of Rock Manor, has been urged by friends in both Brandwine Hundred and in Christians Hundred, to enter his name in the Republican primary for the office.

Mr. Davis, who is the publisher of the Delaware Ledger, is known throughout the State because of his political educational and civic activities.

GIFTS, TURKEY AND TREE TO BRIGHTEN DRAB PRISON YULE

Prisoners at the New Castle County Workhouse at Greenbank may be in an unfortunate position, but they are not in such unfortunate circumstances that they will not have a turkey dinner with all the trimmings, a Christmas tree and presents.

CONCERTS AND GAMES ALSO ON CHRISTMAS PROGRAM AT WORKHOUSE.

Warden J. Elmer Lewis said today that at about noon on Christmas Day all prisoners at the workhouse will have turkey dinner with all the trimmings...

CAROLS TO RESOUND

Warden J. Elmer Lewis said today that at about noon on Christmas Day all prisoners at the workhouse will have turkey dinner with all the trimmings...

Although the details of the Christmas program are not complete, this tentative program has been arranged. At 8 A. M. there will be a holiday breakfast and at 9:30 the men will gather in the auditorium and attend a prayer meeting for 15 minutes.

RAMSAY TELLS GERMAN SHE

Russell Ramsay, speaker today before Wilmington Kiwanis Weekly Luncheon on Front Bldg., was illustrating his picture Mr. Ramsay of the club about breeding of German sheep...

WAR PICTURE SHOWN AT A

Hoskins' Views Were Repr'd Many Public

Three large picture serial years ago by Gayl Huntington artist, reproduced in many publications placed on display for sale in the officers State Armory, Tenth St.

WERE REPR'D MANY PUBLIC

One of the picture serial years ago by Gayl Huntington artist, reproduced in many publications placed on display for sale in the officers State Armory, Tenth St.

RAMSAY TELLS GERMAN SHE

Russell Ramsay, speaker today before Wilmington Kiwanis Weekly Luncheon on Front Bldg., was illustrating his picture Mr. Ramsay of the club about breeding of German sheep...

RAMSAY TELLS GERMAN SHE

Russell Ramsay, speaker today before Wilmington Kiwanis Weekly Luncheon on Front Bldg., was illustrating his picture Mr. Ramsay of the club about breeding of German sheep...

RAMSAY TELLS GERMAN SHE

Russell Ramsay, speaker today before Wilmington Kiwanis Weekly Luncheon on Front Bldg., was illustrating his picture Mr. Ramsay of the club about breeding of German sheep...

RAMSAY TELLS GERMAN SHE

Russell Ramsay, speaker today before Wilmington Kiwanis Weekly Luncheon on Front Bldg., was illustrating his picture Mr. Ramsay of the club about breeding of German sheep...

