

**Rural Historic Structural Survey  
of  
Manhattan Township  
Will County, Illinois**





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of  
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**September 2006**

for  
**Will County Land Use Department  
and  
Will County Historic Preservation Commission**

**Wiss, Janney, Elstner Associates, Inc.**



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**TABLE OF CONTENTS**

Executive Summary..... vii

**Chapter 1 – Background and Methodology**

    Background..... 1

    Survey Methodology..... 1

    Survey Gaps and Future Research..... 2

**Chapter 2 – Context History of the Rural Survey Area**

    Geologic and Topographic Background to the Illinois Region..... 3

    First Nations in the Illinois Region..... 4

    The Arrival of European Settlers..... 5

    Settlement and Development of Northeast Illinois..... 9

    Manhattan Township Development History..... 17

**Chapter 3 – American Rural Architecture**

    Farmstead Planning..... 25

    Development of Balloon Framing..... 25

    Masonry Construction..... 29

    Classification of Farmhouses..... 35

    Development of the Barn..... 45

**Chapter 4 – Survey Summary and Recommendations**

    Period of Significance: 1845 to 1970..... 65

    Significance..... 65

    Potential Historic Districts, Thematic Designations, and Landmarks..... 69

    Survey Summary..... 71

    Notable Farmsteads in Manhattan Township..... 95

Bibliography..... 117

Glossary..... 133

Appendix A: Historic Atlas and Plat Maps of Manhattan Township

Appendix B: 1939 aerial photography of Manhattan Township

Appendix C: Maps

    Map 1 – Will County Key Map

    Map 2 – Overview of Survey

    Map 3 – Existing House Types

    Map 4 – Existing Barn Types

    Map 5 – Historical Significance

    Map 6 – Proposed Manhattan-Green Garden Rural Heritage District

    Map 7 – Proposed Midewin National Tallgrass Prairie Rural Buffer District



*This wooden trestle, now abandoned, carried the Wabash Railroad over Prairie Creek in Section 31 of Manhattan Township.*

## Executive Summary

At the request of the Will County Land Use Department, acting as liaison for the Will County Historic Preservation Commission, Wiss, Janney, Elstner Associates, Inc. (WJE) has prepared this summary report of the 2005–2006 intensive survey of farmsteads in Manhattan Township in Will County, Illinois. The survey included thirty-six square miles with 120 farmsteads and related sites containing more than 700 individual structures.

The earliest settlers of European descent established homesteads in Manhattan Township beginning in the mid 1830s at Five Mile Grove. Intensive agricultural settlement did not begin, however, until the late 1840s. Settlement increased following the construction of the Illinois Central Railroad in the early 1850s, and Manhattan was organized as an independent township in 1853. The opening of the Wabash Railroad in 1880 led to the establishment of the village of Manhattan. Also, farmers in Manhattan Township were more directly connected to markets in Chicago. With the construction of interstate highways in the 1960s, suburban residential development began to occur in Manhattan Township. The growth of the village as a residential community has greatly accelerated in the late 1990s and 2000s.

Of the 120 farmsteads identified in the current survey, two sites have already been listed as Will County Landmarks: the John C. Baker Barn and the Paton School. Additionally, thirty-two sites have the potential to be considered for Will County Historic Landmark designation or listing on the National Register of Historic Places. In some cases, the eligibility of the site would be enhanced if certain historic features were restored or non-historic cladding materials such as vinyl siding were removed. Other sites have either been designated Contributing, which means in the context of this report that they retain their overall character as historically agricultural sites but lack individual distinction; or Non-contributing, which indicates that the site lacks sufficient integrity to present the theme of agricultural history in the survey region. Two potential landmark districts were identified: one rural heritage district encompassing mainly agricultural land in eastern Manhattan and western Green Garden Townships; and one buffer district encompassing historically agricultural land adjacent to the Midewin National Tallgrass Prairie southwest of Manhattan.

The Manhattan Township intensive survey was performed to update the previous survey of the township performed in 1988. In the previous survey, 135 farmsteads and related sites were identified in Manhattan Township, containing at least 800 structures. Because of the rapid pace of contemporary development in Will County since 1988, the Will County Historic Preservation Commission recognized the need to reassess the agricultural heritage of the region. WJE has previously completed five intensive survey projects covering Wheatland, Plainfield, Lockport, DuPage, Homer, New Lenox, and Green Garden Townships. Copies of the previous survey reports were provided to public libraries in the area. Cumulatively, the surveys have identified over 3,400 structures on about 775 sites over 288 square miles of Will County. Performing a separate survey for each township has allowed more detailed information to be collected, such as individual photographs of each historic structure, an assessment of current building condition, and preparation of site sketch plans. With the permission of property owners, the survey work was performed with close-up access to the buildings, which allowed for close range photography and a reliable identification of building materials. The survey data was compiled and analyzed using database software and geographic information system (GIS) software.

In this report, Chapter 1 contains a description of the project methodology. Chapters 2 and 3 provide the architectural and historical context within which the surveyed farmsteads were established, grew, were reconfigured, and in some cases were abandoned. Chapter 2, Context History, covers the historical context of Will County agriculture, as well as the historical development of Manhattan Township. Chapter 3 discusses the architectural context of the rural survey area. Chapter 4 summarizes the survey results and includes a discussion of the National Register and Will County criteria for designation of historical and

architectural significance. Also in Chapter 4 are several tabulations of the survey results and an overview of a select number of historically and/or architecturally significant farmsteads. A bibliography of research sources follows the text. Appendices include historic and contemporary plat maps for Manhattan Township; and maps developed for this report to present the results of the survey and research.

## CHAPTER 1

### BACKGROUND AND METHODOLOGY

#### Background

At the request of the Will County Land Use Department, acting as liaison for the Will County Historic Preservation Commission, Wiss, Janney, Elstner Associates, Inc. (WJE) has prepared this summary report of the intensive survey of farmsteads in Manhattan Township in Will County, Illinois. A previous survey of farmsteads in Will County was performed in 1988. Beginning in 1999, WJE has prepared intensive surveys of individual townships in Will County. Previous townships surveyed included Plainfield, Wheatland, and Lockport (completed November 2000), DuPage (November 2001), Homer (November 2002), New Lenox (August 2003), and Green Garden (July 2004). It is intended that Frankfort Township will be the next township to be surveyed.

The objectives of the study are to provide comprehensive information on all historic rural structures located in the area; to assess the eligibility of rural districts or individual buildings for designation as local landmarks or nomination to the National Register of Historic Places; to inventory the existing structures in the area for future study; to provide background on significant architectural styles and rural structure types common to the area; and to provide background history of the development of the area. The present study has been developed to meet the requirements and standards of the Certified Local Government program.

#### Survey Methodology

##### *Survey Team*

The survey team from WJE consisted of Kenneth Itle, Craig Droba, Renae Brossman, Jean Tamisin, and Deborah Slaton. Mr. Itle served as Project Manager and developed the summary report and performed some field survey work. Mr. Droba, Ms. Brossman, Ms. Tamisin, and Mr. Itle performed field survey work. Ms. Slaton was the reviewer of the summary report.

##### *Background Research*

Work on the rural survey began in August 2005. Background research was performed at the State of Illinois Library, Springfield; the University of Illinois Libraries, the Joliet Public Library, and the Manhattan Public Library. In addition, extensive historic research materials compiled for previous Will County rural survey reports were available.

##### *Field Survey*

A project initiation meeting was held to discuss the project approach and scope. Field survey work proceeded in August, September, and October 2005. The field survey work began with a reconnaissance survey to identify existing farmstead sites. Following the identification of sites, an intensive survey was performed of each site. The survey team first approached the primary residence on the site to request permission of the homeowner/tenant to conduct the survey on the farmstead site. At sites where no one was home, or where owner permission was not provided, the site was surveyed from the public right-of-way. Typically each structure on the site was photographed individually using a digital camera. A sketch plan of the farmstead was prepared. Written notes for each building included a listing of exterior materials, overall condition, and estimated decade of construction based on structural type and style. Any history information provided by the owner, such as dates of construction or names of original owners, were also noted.

### ***Database and Base Map Preparation***

Mapping for the survey was prepared using ArcGIS.<sup>1</sup> Baseline mapping showing roads, railways, streams, township boundaries, etc., as well as 2005 aerial photography of the survey area, was downloaded from the Illinois Natural Resources Geospatial Data Clearinghouse internet site.<sup>2</sup> Individual points were added to the baseline map at the location of each farmstead site surveyed. Each point represents a particular record in the Microsoft Access database. The database contains all field survey information; historical information specific to each property, such as names of previous owners based on historic atlases and plat maps; and the assessment of historic significance. On the database forms, the “notes” field typically contains other miscellaneous observations of the project team from the field work. Occasionally, this field contains verbal information for the resident or another source; these are so noted.

Prior to inserting the digital photographs into the database, the photograph files were converted from color .jpg files to reduced-size black-and-white .bmp files. The Microsoft Access database was used to generate the property lists included in this summary report, as well as the individual survey forms. The ArcGIS software was used to generate the maps of the survey area included in the appendix.

### ***Presentations***

A presentation of the draft survey results was made to the Will County Historic Preservation Commission (HPC) on 7 June 2006. The final summary report incorporates comments provided by the HPC members.

### ***Report and Submittals***

The summary report was prepared using Microsoft Word. Will County was provided with the following final materials under separate cover: printed copies of the final summary report; printed copies of the individual property survey forms; digital photographs as original color .jpg files; ArcGIS mapping files; Microsoft Access database file; survey sheets as .pdf file; and report text as Microsoft Word file and .pdf file.

## **Survey Gaps and Future Research**

The present study is not meant to be a definitive review of the history of each property surveyed; rather, based on historic research and field survey, the relative significance of each property has been assessed. In the future, as new development or renovation work may affect particular properties, the history and significance of the particular property should be researched in detail, using the present survey as a starting point.

The present study focused on architectural features of the survey region. Other studies could be undertaken to assess the archaeological potential of the survey region; to identify and assess cultural landscape features such as fence rows, hedges, and earthworks; to study historic transportation infrastructure and routes in detail; or to study particular architectural themes, such as limestone masonry construction, in greater detail.

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<sup>1</sup> GIS stands for geographic information system, a computerized methodology for organizing data geographically.

<sup>2</sup> <http://www.isgs.uiuc.edu/nsdihome/>

## CHAPTER 2

### CONTEXT HISTORY OF THE RURAL SURVEY AREA

#### Geologic and Topographic Background to the Illinois Region

As with most of Illinois, the survey area was profoundly altered by glaciation. Over approximately one million years during the Pleistocene era, the northern hemisphere was alternately covered by, and free of, large ice sheets that were hundreds to a few thousand feet thick. Pleistocene glaciers and the waters melting from them changed the landscapes they covered. The ice scraped and smeared the landforms it overrode, leveling and filling many of the minor valleys and even some of the larger ones. Moving ice carried colossal amounts of rock and earth, for much of what the glaciers wore off the ground was kneaded into the moving ice and carried along, often for hundreds of miles.

A significant feature left by the advance and retreat of glaciers in the northeast corner of the state are glacial moraines—low mounds tens of miles long left by the furthest advance of a glaciers in the Wisconsin period. Manhattan Township lies almost entirely within one of the most pronounced moraines, the Valparaiso Morainic System. The portion of this system of moraines in the township is appropriately named the Manhattan Moraine.

The northern part of the township is drained by Jackson Creek, which flows from east to west from Section 1 to Section 7. The southern part of the township is drained by Prairie Creek, which flows from east to west from Sections 13 and 24 to Section 30. Other smaller streams in the township are tributaries to these creeks. Both Jackson and Prairie Creeks flow generally west by southwest, ultimately draining into the Kankakee River just upstream of the meeting point of the Kankakee and Des Plaines Rivers, the start of the Illinois River. The small valleys carved out by the creeks are readily apparent in the township, particularly in Section 30 and while traveling along Baker Road between Sections 5 and 8.

The last ice sheets in this area began to retreat approximately 13,500 years ago. The retreating and melting glaciers continued to impact the area for a few more thousand years, as the outflow deposited sand and gravel.



*The gently rolling landscape of Manhattan Township is defined by several creek valleys, such as Prairie Creek, seen here at the Scheer Road bridge in Section 24.*



The first signs of specific colonization date from the Archaic Period, prior to 1000 B.C., when deer hunting and wild plant gathering supported a dispersed population. As climatic conditions changed over the next several thousand years, populations tended to concentrate near river floodplains and adjacent areas. In the Woodland Period (1000 B.C. to A.D. 1000), crude grit-tempered pottery appeared in northeastern Illinois. The end of this period saw the advent of large fortified towns with platform mounds, such as the community at Cahokia located east of St. Louis. Further north, villages in the upper Illinois River Valley lacked large platform mounds.<sup>3</sup> It was also a period of a widespread trading network known to modern anthropology as the Hopewell Interaction Sphere. The villages of this period were typically located on valley bottom lands, close to river transportation. Agricultural development included cultivation of floodplain lands; by A.D. 650 maize was being grown in the Illinois River valley.<sup>4</sup>

The time span between A.D. 1000 and the coming of European explorers and settlers is known as the Mississippian Period. Northeast Illinois was at the fringe of the larger Middle Mississippi culture present in central and southern Illinois. At the beginning of this period, the communities of large fortified towns and ceremonial platform mounds reached their zenith. Among these sites in northeastern Illinois is the Fisher site in Will County, located in Channahon Township.

## The Arrival of European Settlers

### *French Explorers and Settlers in the Illinois Territory*

By the time of the French explorations of the seventeenth century, the native inhabitants of Illinois as a group belonged to the Algonquian linguistic family, closely related to the Chippewa. The specific tribes in the northeast Illinois region included the Miami (located on sites near the Calumet River, the juncture of the Des Plaines and Kankakee Rivers, and the Fox River) and the Illinois (present throughout the rest of modern-day Illinois). “Illinois” was a native word signifying “men” or “people.”<sup>5</sup> By the early to mid-1700s, the Potawatomi moved into the area from the region of Michigan and northern Wisconsin.

In 1673, the expedition of Father Jacques Marquette and Louis Jolliet traveled primarily along the Mississippi River and up the Illinois River to the region of Cook and Will Counties.<sup>6</sup> This expedition claimed the region for France. In 1678, an expedition led by Robert de La Salle with Henry Tonti and Father Hennepin explored the region along the Mississippi River and adjacent territory on behalf of France. A Jesuit mission was established at Chicago in 1696 by Father Pierre Pinet, but it failed to last more than a year. As time progressed the French centered their principal activities in the middle Mississippi valley, focusing on Fort de Chartres near Kaskaskia and its connections with Québec via the

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<sup>3</sup> Several Woodland sites are present in the river valleys of the Des Plaines and DuPage Rivers. (John Doershuk, *Plenemuk Mound and the Archaeology of Will County*, Illinois Cultural Resource Study No. 3 (Springfield, Illinois: Illinois Historic Preservation Agency, 1988), 11–14).

<sup>4</sup> James E. Davis, *Frontier Illinois* (Bloomington, Indiana: Indiana University Press, 1998), 25. “The Late Woodland is a period of increasing dependence on corn agriculture, although northeastern Illinois groups appear less corn-dependent than do central and lower Illinois River valley peoples.” (Doershuk, *Plenemuk Mound and the Archaeology of Will County*, 13–14.)

<sup>5</sup> John R. Swanton, *The Indian Tribes of North America* (1952, Bureau of American Ethnology Bulletin Number 145; reprint, Washington, D.C.: Smithsonian Institution Press, 1969), 241.

<sup>6</sup> Louis Jolliet was born at Beauport, near Québec, in September 1645. He began to study at the Jesuit College of Québec in 1655 and in 1662 he received minor religious orders from Bishop Laval. After leaving the seminary and becoming a fur trader, he gained proficiency in surveying and mapmaking. Jolliet was chosen by the government of France to be a member of a delegation meeting with the chieftains of the Indian tribes assembled at Sault Sainte Marie in 1671. Beginning the next year, Jolliet led an expedition down the Mississippi, during which he traveled up the Illinois and Des Plaines Rivers. During this expedition he surmised that digging a canal from to connect the waterways in this region would allow transportation from the Great Lakes to the Mississippi and the Gulf of Mexico. The Illinois and Michigan Canal constructed in the 1830s and 1840s was the realization of this route.

Ohio, Maumee, and Wabash rivers and the Great Lakes, well to the south and east of the upper Illinois valley.

During this period, the Native Americans were undergoing migrations, often leading to conflict among the various tribes. The Sauk, Fox, Kickapoo, and Potawatomi displaced the Miami and Illinois in the Chicago region. The Potawatomi, followed by the Sauk and the Fox, were the predominant peoples in the northeastern Illinois by the later 1700s. Also present in the region were the Winnebago and the Shawnee.<sup>7</sup>

French colonial settlers in the southern and central portions of Illinois brought with them traditional agricultural practices from northern France, including open-field plowlands divided into longlots, and communal pasturing areas.<sup>8</sup> However, unlike labor practices in France, colonial settlers utilized African slaves. By the middle of the eighteenth century, black slaves were one-third of the region's population.

Early settlements founded as missions and fur trading posts, such as Cahokia and Kaskaskia, developed into the core of agricultural communities.<sup>9</sup> French colonial farms produced wheat for human consumption and maize as feed for hogs. A staple of the settlers' diet was wheat bread. Livestock for use as dairy production, meat consumption, and draft animals were also present on the region's farms. The open field agriculture system continued in use beyond the era of French domination, and ended only with the influx of settlers from the east coast after 1800.<sup>10</sup>

### ***Illinois in the English Colonial Period and Revolutionary War***

Land ownership was not an original right when the Virginia Company settled Jamestown in 1607. The company owned the land and paid its employees for their labor in food and supplies out of a common storehouse, limiting their motivation to farm. After a period of starvation that nearly wiped out the settlement, the company gave each employee an incentive of a three-acre garden, which led to regular land distribution consisting of a 50 acre "headright."<sup>11</sup>

French influence in the Illinois territory began to wane by the mid-1700s. Québec on the St. Lawrence River fell to the British in September 1759 during the French and Indian War, opening a route through the Great Lakes to the middle part of the continent. In 1763, the French ceded land east of the Mississippi to the British. In October 1765, the British took possession of Fort Chartres (and briefly renamed it Fort Cavendish), extending British authority across the continent east of the Mississippi River. Unchallenged British control of the Illinois region lasted until the Revolutionary War. In 1778, at the direction of the Governor of Virginia, George Rogers Clark led an expedition against the British and captured their posts in the frontier northwest. Clark marched across southern Illinois, and by July 1778 had disarmed the British-held frontier forts of Kaskaskia, Cahokia, and Vincennes, claiming the region for the newly independent American colonies.

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<sup>7</sup> Jean L. Herath, *Indians and Pioneers: A Prelude to Plainfield, Illinois* (Hinckley, Illinois: The Hinckley Review, 1975), 20–21.

<sup>8</sup> Carl J. Ekberg, *French Roots in the Illinois Country: The Mississippi Frontier in Colonial Times* (Urbana, Illinois: University of Illinois Press, 1998), 2–3. "Longlots" are, as the name implies, long narrow plots of cultivated land that developed because of the difficulty for plowing teams to turn around. Forms of longlots date back to ancient Mesopotamia; French colonial forms developed from Medieval European models. The longlots in Illinois typically had length to width ratios of 10 to 1.

<sup>9</sup> *Ibid.*, 33.

<sup>10</sup> *Ibid.*, 173–251.

<sup>11</sup> John Opie, *The Law of the Land: Two Hundred Years of Farm Policy* (Lincoln: University of Nebraska Press, 1994), 19.

### ***Land Division and Distribution in the New Nation***

When land claims of several of the newly independent states overlapped, Congress, under the Articles of Confederation, struggled to maintain control over the territory extending to the Mississippi River. After making all land west of the Pennsylvania Line to the Mississippi common national property, a system of land division was developed based on meridians and base lines, which were subdivided further into a series of rectangular grids. In the “Rectangular System,” distances and bearing were measured from two lines which are at right angles to each other: the Principal Meridians, which run north and south, and the Base Lines, which run east and west. Subdividing lines called Range Lines are spaced at six mile intervals between the meridians and base lines. Range Lines defined territories known as townships.<sup>12</sup>

On 20 May 1785, Congress adopted this system as the Land Survey Ordinance of 1785. (Eventually, frontier settlers west of Pennsylvania and north of Texas could walk up to a plat map on the wall of a regional land office and select a one quarter section property for farming, which was thought to be sufficient to sustain individual farmers.<sup>13</sup>) In 1787, after about twenty months of surveying work, the first national public land sales occurred, consisting of 72,934 acres with \$117,108.22 in revenue.<sup>14</sup> Also in that year, the Ordinance of 1787 organized the Northwest Territory, including what would become Illinois, Indiana, Michigan, Ohio, and Wisconsin.

After the ratification of the new United State Constitution, land legislation was not addressed for several years. Meanwhile, settlement continued on the portions already surveyed and sold by the government, and extended into unsurveyed land with settlement by squatters (many of whom were later evicted by federal troops). Additional federal land sales took place in 1796, and in 1800 the government opened land offices in Cincinnati, Chillicothe, Marietta, and Steubenville, all in Ohio.

### ***Development of the Northwest Territory***

In 1801 Illinois, then part of the Northwest Territory, became part of the Indiana Territory. Eight years later the Illinois Territory was formed, including the region of Wisconsin. By 1800, fewer than 5,000 settlers lived in the territorial region, with most located in the southern portion of what became Illinois along the Mississippi, Ohio, and Wabash Rivers. The northern portion of the state was more sparsely populated, as European settlers did not begin to enter this area until the early years of the 1800s.

At this time, the Native American tribe leader Tecumseh organized the tribes of the Northwest Territory against European settlers. Although defeated in the Battle of Tippecanoe of 1811, Tecumseh remained active throughout the War of 1812 and aided British forces in capturing many European-settled areas. These reverted to American control at the end of the war. A series of treaties with Native American populations influenced the future of northeast Illinois. In 1795, a peace treaty with Native Americans included the ceding of “one piece of land, six miles square, at the mouth of the Chicago River, emptying

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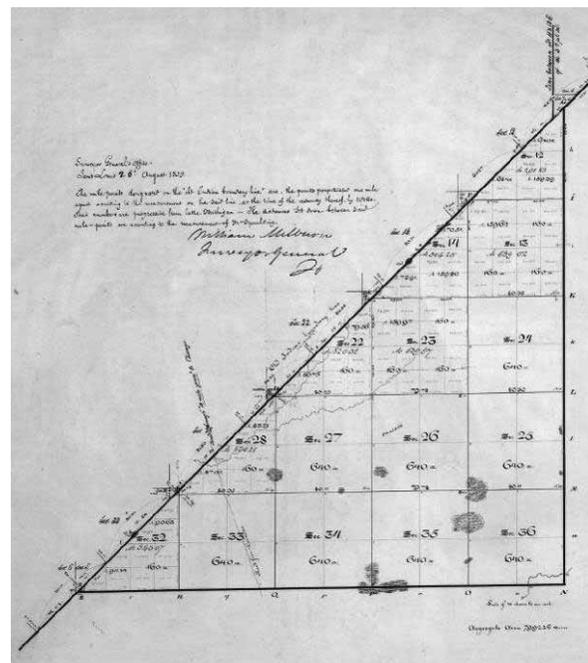
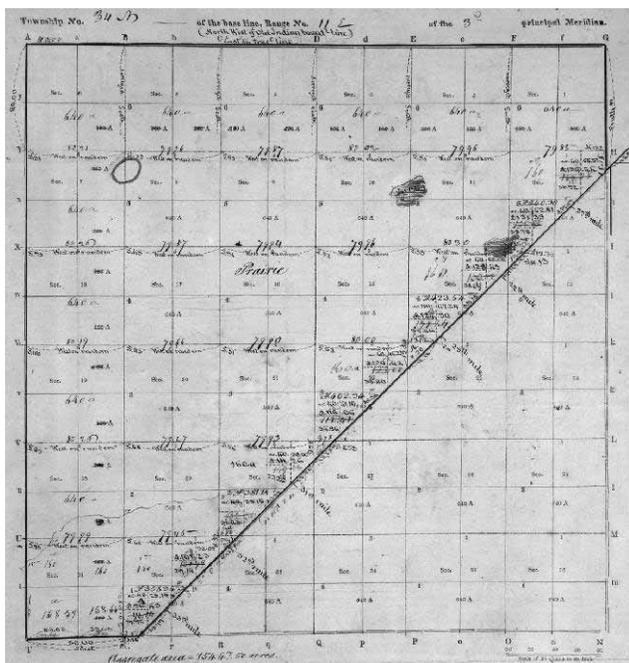
<sup>12</sup> Townships were the largest subdivision of land platted by the United States. After the Township Corners were located, the Section and Quarter Section Corners were established. Each Township was six miles square and contained 23,040 acres, or 36 square miles, as nearly as possible to fit specific geographic conditions such as lakes and rivers, political boundaries such as State boundaries, as well as survey errors. Each Township, unless irregular in shape due to the factors cited above, was divided into 36 squares called Sections. These Sections were intended to be one mile, or 320 rods, square and contain 640 acres of land. Sections were numbered consecutively from 1 to 36, utilizing the same criss-cross numbering pattern on each section regardless of national location or actual township configuration. Sections were subdivided into various smaller parcels for individual farms. A half section contains 320 acres; a quarter section contains 160 acres; half of a quarter contains 80 acres, and quarter of a quarter contains 40 acres, and so on. Today, legal descriptions of real estate continue to describe parcels according to the portion of the section within which they are located.

<sup>13</sup> Opie, *The Law of the Land*, 10.

<sup>14</sup> *Ibid.*, 15.

into the southwest end of Lake Michigan, where a fort formerly stood.”<sup>15</sup> It was on this land that Fort Dearborn was established in 1803, where a settlement of French traders and their Native American wives developed. The site grew initially from the fur trade, and despite the Fort Dearborn Massacre of 1812, more settlers came to the area.

Cutting across the western half of the region later known as Will County was a land corridor ceded by the Potawatomi, Ottawa, and Chippewa in a treaty signed in St. Louis on 24 August 1816. The corridor, defined by the cartographic features now known as the Indian Boundary Lines (and still present on many maps of the area), was meant to allow European settlers access to Lake Michigan for the construction of a waterway (later developed as the Illinois and Michigan Canal). The corridor was physically surveyed by James M. Duncan and T.C. Sullivan in 1819; its southern boundary was defined by a line drawn from a point on the shore of Lake Michigan ten miles south of the Chicago River, to a point on the Kankakee River ten miles north of its mouth.<sup>16</sup>



Left: The first plat of survey for Manhattan Township, dated 1829, which included the land north of the Indian Boundary Line. Right: The plat of survey for the southeastern portion of Manhattan Township, dated 1839; the land south of the Indian Boundary Line was officially open for European settlement after the 1833 treaty between the United States and the Potawatomi, Ottawa, and Chippewa tribes. On the plats of survey, note the blue pencil shading to indicate ponds or sloughs, and the green circle indicating the small wooded area in Sections 7 and 8.

### Illinois Statehood

The United States Congress passed an enabling act on 18 April 1818 admitting Illinois as the twenty-first state as of 3 December 1818. A bill had passed Congress in early 1818 moving the northern boundary northward to include the mouth of the Chicago River within the Illinois Territory.<sup>17</sup> The act passed despite

<sup>15</sup> As quoted by A.T. Andreas in his *History of Chicago, from the Earliest Period to the Present Time* (Chicago: A.T. Andreas, 1884), 79.

<sup>16</sup> *Will County Property Owners, 1842* (Joliet, Illinois: Will County Historical Society, 1973), 1.

<sup>17</sup> The northern boundary of the Illinois Territory was on an east-west line from the southern line of Lake Michigan. In order to give the future state a portage on Lake Michigan, the boundary line was moved 10 miles north of the initial boundary. The Congressional legislation was amended before passage, moving the future state’s northern boundary a total of 51 miles north. This gave the region more potential economic security as well as less potential for the area to align politically with the slave states of the South.

the fact that the population of the state was only 40,258, less than the 60,000 required by the Ordinance of 1787. The state capital was established first at Kaskaskia and moved to Vandalia two years later. Much of the land in the state was the property of the United States government. Early sales offices were located at Kaskaskia, Shawneetown, and Vincennes. Until the financial panic of 1819, there was an initial rush of sales and settlement at the southern end of the state where navigable streams and the only road system were located.<sup>18</sup>

The Native Americans who occupied the area at this time were divided into powerful tribes who at times fought the European settlers to hold their hunting grounds. Chief among these tribes was the Kickapoo, who were among the first to engage in war with European settlers and the last to enter into treaties with the United States government. On 30 July 1819, by the Treaty at Edwardsville, the Kickapoo ceded their land to United States and began to retreat to Osage County. By 1822, only 400 Kickapoo were left in the state. The 1832 Peace Treaty of Tippecanoe was negotiated with the Potawatomi tribe, resulting in the ceding of the land now occupied by Chicago and Joliet to the federal government.

The early 1830s saw the greatest land boom to that date in American history. Land sales gradually came under the control of the General Land Office as the survey moved westward. In 1834 and 1835 alone, 28 million acres were shifted from closed to open land for purchase. Two years later the Van Buren administration placed an enormous 56,686,000 acres on the market. These lands were located in some of the most fertile farming regions of the nation: Illinois, Iowa, Alabama, Mississippi, Arkansas, and Missouri.<sup>19</sup> The building of the Illinois and Michigan Canal in the later 1830s and 1840s (discussed in Chapter 2) led to a land boom in Chicago, which had been platted in 1830 and incorporated in 1833.<sup>20</sup> The rate of growth in northern Illinois soon matched and then surpassed that in the southern portion of the state.

## Settlement and Development of Northeast Illinois

By 1826, more European settlers began to move to the northeast Illinois region, so that by 1831 a few hamlets were present between LaSalle and Chicago. Also present in the region was a tribe of nearly 1,000 Potawatomi in the area along the DuPage River south of what would become Plainfield.<sup>21</sup> At the beginning of the Black Hawk War in 1832 the largest settlement north of the Illinois River (except for Chicago) was on Bureau Creek, where there were about 30 families. A few other settlers had located along the river at Peru and LaSalle, and at Ottawa. At Walker's Grove or Plainfield, there were 12 or 15 families.<sup>22</sup> Along the DuPage River, partially located in the region that would become Will County in 1836, there were about twenty families. In Yankee settlements, which embraced part of the towns of Homer, Lockport and New Lenox, there were 20 or 25 families. Along the Hickory in the town of New Lenox, including the Zarley settlement in Joliet Township, there were approximately 20 more families, and at the Reed's and Jackson Grove there were 6 or 8 more.<sup>23</sup>

<sup>18</sup> Olin Dee Morrison, *Prairie State, A History: Social, Political, Economical* (Athens, Ohio: E. M. Morrison, 1960), 24–25.

<sup>19</sup> *Ibid.*, 51.

<sup>20</sup> Between 1840 and 1860 the population of Chicago increased from 4,470 to nearly 100,000, growth tied to the economic boom resulting from the opening of the Illinois and Michigan Canal. By 1890, Chicago's population was more than 1,000,000 persons (Harry Hansen, ed., *Illinois: A Descriptive and Historical Guide* (New York: Hastings House Publishers, 1974), 176–83).

<sup>21</sup> Herath, 21.

<sup>22</sup> A Potawatomi village was located to the south of Walker's Grove. (Helen Hornbeck Tanner, ed., *Atlas of Great Lakes Indian History* (Norman, Oklahoma: University of Oklahoma Press, 1987), Map 26, 140.)

<sup>23</sup> *Ibid.*

In 1832, a band of Sauk Indians led by Black Sparrow Hawk resisted their deportation by European settlers from their ancestral lands. Although most of the fighting occurred in the Rock River area in Northwest Illinois and southern Wisconsin, an Indian panic swept through Will County settlements. The settlers in Walker's Grove together with about 25 fugitives from the Fox River area hurriedly constructed a stockade from the logs of Stephen Begg's pigpen, outbuildings, and fences ("Fort Beggs"). The prospect of engaging Indians in pitched battle from the confines of "Fort Beggs" prompted the settlers to leave the makeshift stockade in favor of Fort Dearborn in Chicago. Meanwhile homesteaders in the eastern Will County area gathered at the Gougar homestead and decided to flee to Indiana.<sup>24</sup>

Also in 1832, northwest Will County was the scene of an epidemic of smallpox among the Potawatomi, inflicting a mortality rate at least twice that of European settlers. Approximately one-third of the Native American population in the region died during the epidemic.<sup>25</sup>

The end of the Black Hawk War brought about the expulsion of the Sauk and Fox from lands east of the Mississippi River. Also in 1832, the Winnebago ceded their lands in Wisconsin south and east of the Wisconsin River and east of the Fox River to Green Bay. The Potawatomi, Ottawa, and Chippewa tribes still held title to land in northern Illinois outside of the Indian Boundary lines. In September 1833, a gathering of Native American chiefs and leaders was held in Chicago to "negotiate a treaty whereby the lands might be peaceably ceded, and the Indians removed therefrom, to make way for the tide of white emigration which had begun to set irresistibly and with ever increasing volume to the coveted region."<sup>26</sup> A Chicago historian, A.T. Andreas, writing in the 1880s, emphasized the disadvantaged position of the Native Americans, who had seen the effects of war on other Native Americans and experienced the ravages of epidemic on their own peoples:

Black Hawk's ill-starred campaign, followed by the subsequent treaty made by his tribe, showed them the inevitable result [that] must follow resistance. They knew quite well that they had no alternative. They must sell their lands for such a sum and on such terms as the Government agents might deem it politic or just or generous to grant. The result of the treaty was what might have been expected. The Indians gave up their lands and agreed for certain considerations, the most of which did not redound to their profit, to cede all their lands to the Government, and to leave forever their homes and the graves of their fathers for a land far toward the setting sun, which they had never seen and of which they knew nothing.<sup>27</sup>

In the resulting treaty, the three tribes ceded land "along the western shore of Lake Michigan, and between this lake and the land ceded to the United States by the Winnebago nation at the treaty of Fort Armstrong . . ."<sup>28</sup> As compensation, the tribes received land on the east bank of the Missouri River and a series of monetary payments.<sup>29</sup>

Emigration into Will County after the Black Hawk War increased so markedly that settlers began agitating for separation from Cook County. Residents of these settlements, then part of Cook County,

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<sup>24</sup> Robert E. Sterling, *A Pictorial History of Will County*, Volume 1 (Joliet: Will County Historical Publications, 1975).

<sup>25</sup> Tanner, ed., *Atlas of Great Lakes Indian History*, 173.

<sup>26</sup> Andreas, *History of Chicago*, 123.

<sup>27</sup> Ibid.

<sup>28</sup> As quoted in Andreas, *History of Chicago*, 124.

<sup>29</sup> It has been reported that Native Americans returned to Will County as late as 1900 on pilgrimages (Herath, 21):

Though officially ousted, the Indians, being great travelers, made pilgrimages back to the land of their childhood for many years. Small ragtag bands of women and children were seen as late as the 1870s along the DuPage, wending their way north in the spring and south in the fall. In 1900 an old Indian man, a small boy and a horse pulling a travois were seen along the Kankakee River.

demanded a more convenient place to record their land purchases and to pay their taxes. Accordingly, Dr. A. W. Bowen of Juliet and James Walker of Plainfield went to the state capital of Vandalia and successfully lobbied a detachment petition through the General Assembly. On 12 January 1836, an act was passed creating Will County from portions of Cook, Iroquois, and Vermilion Counties. Will County also included at that time the northern part of what would later become Kankakee County. (In 1845, the boundaries of Will County were changed to their present locations.) The county was named in honor of Dr. Conrad Will, a member of the state legislature who lived in the southern part of Illinois.<sup>30</sup>

On 7 March 1836, an election was held to select Will County's first public officials. They in turn set the price of tavern licenses and created a book for recording the ear markings of livestock. Since swine, sheep, cows, and other livestock freely roamed the city streets and open fields, settlers devised special ear markings consisting of slits, crops, and holes to identify their animals. These "brands" were recorded with pen and ink drawings in the county clerk's office.<sup>31</sup>

The primary concern of pioneer farmers was providing food for their families and livestock. Most farmers homesteaded around wooded land to provide building materials and fuel.<sup>32</sup> On cultivated land, settlers would need to grub out tree stumps before breaking the prairie sod with a walking plow. This latter activity was often difficult, since the soil tended to ball up on the plow. In 1833, John Lane of Lockport invented the breaking plow, which eliminated this problem. Lane's innovation developed from an improvised steel plow attached to the plow molding board. It successfully cut the prairie sod so that the soil could be turned over.<sup>33</sup>

The boom in agricultural production coincided with the opening of the Illinois and Michigan Canal in 1848 was soon followed by the introduction of railroad service in the following decade. Plank roads were also a significant mode of transportation in the mid-nineteenth century.

In the late 1840s, the United States still owned 14,060,308 acres of land in Illinois. Between 1848 and 1857, much of this land passed into private hands. In addition to land that could be purchased from the government, alternate five mile sections each side of the route planned for the Illinois and Michigan Canal in western Will County were offered for sale by the canal authority. Later, alternate six mile sections on each side of the route granted to the Illinois Central Railroad (which passed through eastern Will County) were available for purchase from the railroad.<sup>34</sup> In Manhattan Township, many of the even-numbered sections were part of the grant to the Illinois Central.

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<sup>30</sup> Born near Philadelphia, Pennsylvania, on 3 June 1779, Conrad Will emigrated westward after studying medicine. He was instrumental in the formation of Jackson County from the lower half of Randolph County and part of present day Perry County. Will served first in the Illinois state Senate and later the state House of Representatives, until his death on 11 June 1835. On the following 12 January, the state legislature passed an act sectioning the southern portion of Cook County in northern Illinois, naming it after Conrad Will. (Alice C. Storm, *Doctor Conrad Will* (Joliet, Illinois: Louis Joliet Chapter of the Daughters of the American Revolution, 1917), 1–5.)

<sup>31</sup> Address of George H. Woodruff, *Sixth Annual Reunion of the Will County Pioneer Association* (Joliet: The Press Company, 1886), 5–6.

<sup>32</sup> Wood was so important that the lack of wooded land in Manhattan Township was one of the issues that dissuaded settlers from buying land in the region until the 1840s, when land in surrounding townships was selling out.

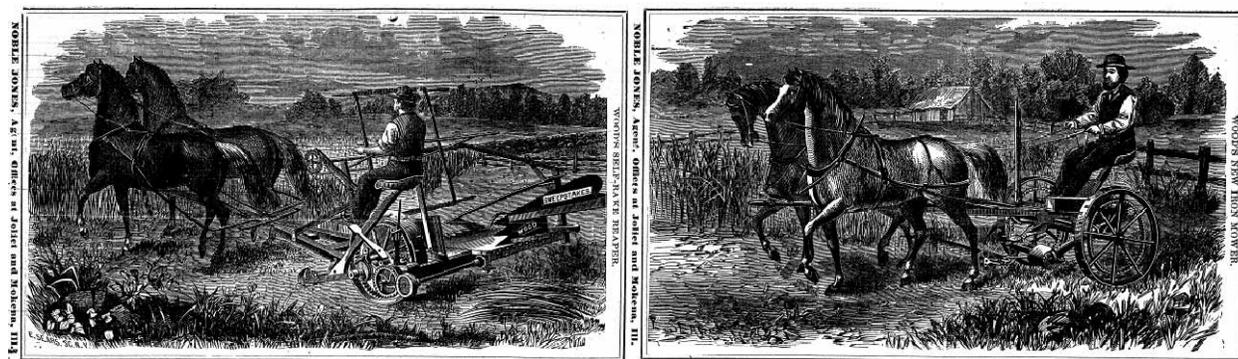
<sup>33</sup> Fayette Baldwin Shaw, *Will County Agriculture* (Will County Historical Society, 1980), 1. The site of Lane's farmstead has a Will County historical marker commemorating his importance due to the invention of this plow.

<sup>34</sup> The lands were sold to settlers and speculators. It is estimated that six million acres passed into the hands of speculators between 1849 and 1856. There were several types of speculators. Small farmers bought the land for pasturage, timber, or simply as an investment. Small businessmen also bought land as an investment, and in this group was included practically every prominent politician in Illinois except Abraham Lincoln. Professional speculators operated on a large scale, with corporations or individuals owning land in many states. Finally, East Coast capitalists invested in western lands—Samuel Allerton, a wealthy resident of New York, owned 2,000 acres in Frankfort, New Lenox, and Homer Townships in Will County and an additional 400 acres in Cook County. In time,

In 1848, Illinois adopted township government as the basic level of local government, although in most locations functioning governments were not set up until 1850. By law, three services were to be provided by the townships: general assistance to needy, property assessment for tax purposes, and maintenance of township roads and bridges. A unique feature of township government was the annual town meeting, held each April in all townships. This system continues to the present day.<sup>35</sup> Until the twentieth century, almost all public infrastructure (such as roads) was thus maintained by each township with local tax revenue.

### ***Agricultural Development***

By the 1850s, Illinois was a major agricultural state. Its corn production was 57.65 million bushels, which increased to 115.2 millions in 1860, making it the leading corn producer in the nation.<sup>36</sup> Wheat was also a major crop—the state was fifth in wheat production in 1850 and first in 1860. Acreage in improved farmland increased two and one half times in the decade. Other principal farm crops were oats, rye, and barley. The average price for corn and wheat was \$1.25 per bushel. In the early- to mid-1800s, agricultural implements were primitive and included reapers, iron plowshares, and hay tenders. The first McCormick reaper in the county appeared in Wheatland Township in 1846. Some local inventions that could be attached to modify the McCormick included gearing produced by W. Holmes of Hickory Creek in Will County, produced at Adams' Foundry, followed by a turf and stubble plow.<sup>37</sup>



Two of the variety of mechanical farm implements that were available to Will County farmers after the Civil War. Above left: A self-raking reaper. Above right: A mower. Both of these were advertised by Noble Jones, a farm implement dealer with offices in Joliet and Mokena, in the 1872 Will County directory.

The major crops in Will County historically have been corn and wheat, although wheat production declined in the later 1800s after infestations of the chinch bug and the army worm. (Wheat farming revived during World War I due to incentives from the U.S. government.) As early as 1850, corn was the leading crop in the survey area, since it could be fed to livestock as well as processed into other products.<sup>38</sup> Other grain crops included oats, barley (used in beer production), and rye. Potatoes were also

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settlers purchased the land from speculators. The Chicago Land Office was the last one opened and the last one closed, except for Springfield which took over all the unfinished work of all offices and remained open until 1877. (Shaw, *Will County Agriculture*, 1–2.)

<sup>35</sup> Bryan Smith, “Township Government in Illinois: A Rich History, A Vibrant Future.” [<http://www.comptrollerconnect.ioc.state.il.us>]

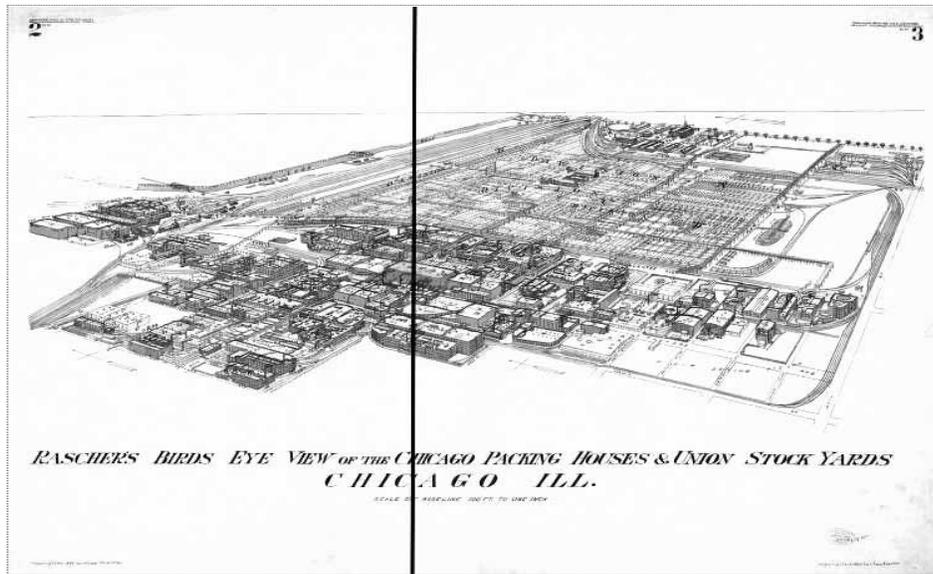
<sup>36</sup> “Corn” was the medieval term used in England for the grain known later as wheat. Settlers given “Indian corn” (maize) by the Native Americans began to sow it themselves, and corn (maize) became one of the leading grain crops in the United States by the 1800s. (United States Department of Agriculture, *Yearbook of Agriculture* (1936), 496.)

<sup>37</sup> Shaw, *Will County Agriculture*, 13.

<sup>38</sup> *Souvenir of Settlement and Progress of Will County Illinois* (Chicago: Historical Directory Publishing Co., 1884),

grown in the region through the late 1800s, but several seasons of wet summers led to rotting crops, followed in subsequent years by potato bugs. Strawberries and grapes were grown in limited areas by the 1870s.<sup>39</sup>

The change from self-sufficient farming to cash crop farming occurred during the mid-nineteenth century. Prior to that time, farmstead typically had less than ten acres. Most farms were 80 acres in size by the end of the century, sometimes with additional parcels of 40 and 80 acres.<sup>40</sup> However, a few individuals in Will County owned larger parcels of land. In order to divide their parcels of land and enclosure pasturage, farmers used split-rail fencing and vegetation such as osage hedges. Other means included wire fencing, available after 1860, and barbed wire, introduced in the 1880s.<sup>41</sup>



*Rascher's Birds Eye View of the Chicago Packing Houses & Union Stock Yards (Charles Rascher, 1890; Library of Congress collection).*

Cattle, hogs, and sheep were also a significant part of northeastern Illinois agriculture. The Chicago Union Stock Yard, incorporated by act of the Illinois State Legislature in 1865, was a ready market. Horses were also bred, as they were an indispensable for the operation of farm machinery; oxen were also used into the 1870s. The dairy industry also was initially a significant part of the region's agriculture.<sup>42</sup>

The average value of a southern Illinois farm in 1910 was \$15,000; in the northern part of the state it was \$20,700. The annual value of farm products measured in dollars rose from \$186 million in 1896 to \$277 million in 1912; this was accompanied by an increase in production of field crops by 70 percent and 76 percent respectively for those years. During this time, wheat, rye, and oat production was on the decline. Livestock production remained fairly constant in overall value but sales of animals decreased by 50

244.

<sup>39</sup> Shaw, *Will County Agriculture*, 8.

<sup>40</sup> However, it should be noted that plat maps from the period reflect land ownership, not tilled land or the extent (through land leasing or barter) of a farmstead.

<sup>41</sup> *Ibid.*, 5.

<sup>42</sup> The dairy industry in the Midwest was centered on Elgin, Illinois, and the western counties around Chicago until the beginning of World War I, after which Wisconsin came to be known as "America's Dairyland." (Daniel Ralston Block, "The Development of Regional Institutions of Agriculture: The Chicago Milk Marketing Order" (Ph.D. diss., University of California at Los Angeles, 1997), 49–52).

percent during this period. Vegetable production was led by root crops like potatoes, turnips, and carrots. Of orchard fruits, apples had the greatest production.<sup>43</sup>

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*Farm machinery changed drastically in the early twentieth century with the introduction of internal combustion engines. At left, a tractor advertisement from Ruge & Wilke in Beecher, Illinois, illustrates the types of tractors available in the 1910s as well as listing the tremendous variety of other implements that were available. From the Prairie Farmer's Reliable Directory of Farmers and Breeders, Will and Southern Cook Counties, Illinois (Chicago: Prairie Farmer Publishing Company, 1918), 349.*

With the development of the gasoline engine and adaptation to the tractor, working conditions on the farm improved considerably. Water could be pumped using gasoline engines instead of depending on the wind to run windmills. Engines also provided power to operate milking machines, grind feed, and run various kinds of machinery. The coming of the gas powered automobile and truck led to demands for better roads in Illinois. At the 1913 meeting of the Illinois Farmers' Institute, Illinois State Highway Engineer A.N. Johnson recognized these needs:

In particular, there is a vast field for the development of motor truck traffic, which it has not been necessary heretofore to consider in plans for road improvement. It is believed that in many sections of the State the opportunity is big for the development of this class of traffic, and provision should be made in the future for road building on a majority of the main roads for the eight and ten ton motor truck. Already truck farmers in the vicinity of Chicago have clubbed together in the purchase of a motor truck by which a 24-hour trip has been reduced to 8 hours, while the delivery of milk from the farm to the city by motor truck is already an economic proposition.

It is believed therefore that the construction to be undertaken on our main roads should be a character that can withstand the heavy motor traffic, heavy horse drawn traffic, as well as the lighter forms of traffic, and that a serious mistake will be made to put down any other than rigid,

<sup>43</sup> Morrison, *Prairie State, A History*, 98.

durable forms of pavement. In Illinois this reduces the choice of the road surface to brick and concrete.<sup>44</sup>

With the implementation of the Civil Administrative Code in 1917, which formed the departmental structure within the executive branch, the Illinois Department of Agriculture was formed as a regulatory and promotional agency.<sup>45</sup>

### *Twentieth Century Developments*

Land area of farms in the Chicago area declined from 88.7 percent of total area in 1900 to 84.9 percent in 1920 and to 80 percent in 1925. Between 1830 to 1925, the number of farms reached its maximum in 1900. In 1925, the total number of farms was 5,000 less than in 1880.<sup>46</sup> During that same period livestock production (including swine) peaked in 1900. For the counties within 50 miles of Chicago, the number of dairy cows per square mile of farmland declined from 46.1 in 1900 to 42.8 in 1925. Acreage in cereal production showed a gradual increase after 1925. Sheep and wool production peaked in 1880 and horses and mules in 1920, declining as a direct result of the introduction of the tractor and motor truck. Dairy production in the Chicago region peaked in 1900 and declined markedly in the following two decades.<sup>47</sup>

Although the Great Depression of the 1930s had a dramatic impact on all Americans, for American farmers the economic decline began a decade earlier. Numerous factors led to the decline of the farm economy in the post-World War I era. To meet the needs of the wartime economy that was feeding American and European populations, American farmers increased production by cultivating lands that formerly were kept fallow. Following the war, farmers continued this trend, overproducing despite reductions in demand. As commodity prices fell, so did the standard of living of many farmers since prices in the rest of the economy were increasing. Farmers went into debt, mortgaged their property, and in many cases lost their farms to creditors.

The coming of the Great Depression deepened the crisis further. Agricultural production in Illinois collapsed from almost \$6.25 billion in 1929 to \$2.5 billion in 1933. As unemployment in industrial centers soared, some people fled to rural communities, putting additional pressure on rural areas as most did not have access to welfare relief.<sup>48</sup> Within days of the inauguration of Franklin Roosevelt, legislation was formulated that would later pass Congress as the Agricultural Adjustment Act. The numerous adjustment programs initiated under the New Deal led to limitations in agricultural production in order to raise crop prices to acceptable levels. These included 20 percent of the land or 1,218,062 acres used in corn production being retired; over 1,000,000 acres of land in wheat production were also retired.<sup>49</sup> In 1934, 15,734,600 acres of land were in production, for a total crop value of \$218,569,000 nationally; this grew to 17,692,100 acres and a crop value of \$273,931,000 the following year.<sup>50</sup>

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<sup>44</sup> A.N. Johnson, "Cost of a System of Durable Roads for Illinois," in *Eighteenth Annual Report of the Illinois Farmers' Institute*, edited by H.A. McKeene (Springfield, Illinois: Illinois State Journal Company, 1913), 149.

<sup>45</sup> Information from the website of the Illinois Department of Agriculture, [www.agr.state.il.us/aghhistory.html](http://www.agr.state.il.us/aghhistory.html). The department actually dated back to 1819, when the Illinois Agricultural Association was formed. Although little is known of the activities of this early group other than a collection of letters by its founders, it established an organization that became the Illinois State Agricultural Agency in 1853. This semi-public organization continued to function until replaced in 1871 by the Department of Agriculture under the supervision of the State Board of Agriculture.

<sup>46</sup> Edward A. Duddy, *Agriculture in the Chicago Region* (Chicago: University of Chicago, 1929), 3.

<sup>47</sup> *Ibid.*, 4.

<sup>48</sup> Morrison, *Prairie State, A History*, 108.

<sup>49</sup> United States Department of Agriculture, *Yearbook of Agriculture* (1936), 1155–6.

<sup>50</sup> *Ibid.*, 1146.

Soybeans were first planted in the late 1930s as a forage crop mainly to be fed to dairy cows and cattle. Although some soybeans were processed through a threshing machine and sold on the market it was not at that time a very popular grain product. Ten or fifteen years later, however, soybeans became a valuable food and commercial product as new uses were developed with the assistance of state and federal agricultural programs.

During World War II, farmers were encouraged by the federal government to increase their production by the use of power machinery and the latest scientific processes. When a decline in demand arose, the farmer was forced to continue his heavy production rate. Cash crop income in 1950 was \$2.038 billion nationally. Of this livestock and livestock products accounted for \$1.26 billion; crops, \$763 million; and government pay for adaptation of production program, with \$10.6 million paid to the farmers in Illinois. Principal crops were corn, soybeans, wheat, oats, hay, fruits, and greenhouse products. The average value of a farm in Illinois in 1950 was \$28,400.<sup>51</sup> The farm population in Illinois declined from 1,341,104 in 1900 to 772,521 in 1950.<sup>52</sup>

The abandoning of farms and the consolidation of small farms into large ones resulted in many buildings being razed or abandoned, while many new ones were built. Moreover, changes in farming meant that many old farm buildings were too small, or unsuitable for other reasons, and were replaced by larger, more suitable and flexible structures. By the early twentieth century many barns were constructed by professional builders following plans influenced by farm journals and using mass-produced lumber from a nearby yard or sawmill.

In 1987, there were 1,239 farms in Will County with 328,729 acres of land involved. Ten years later, the continued decline in agricultural production in northeastern Illinois was apparent, as farmland was lost to suburban development. In Will County in 1997, there were only 910 farms, and though the average farm was larger, the total acreage devoted to agriculture had declined by more than 10 percent to 293,526 acres.<sup>53</sup>

By 1997, there were 79,000 Illinois farms utilizing 28 million acres and about 80 percent of the total land area in the state. Illinois was the leading state in agricultural-related industries such as soybean processing, meat packing, dairy manufacturing, feed milling, vegetable processing, machinery manufacturing, foreign exports, and service industries.<sup>54</sup>

Recent decades has seen tremendous suburban growth in formerly rural areas near Chicago, particularly in the northern portions of Will County. Along with this suburban development has come conflict between the “new” settlers and established farmers:

A while back, farmer Ray Dettmering was arrested for plowing his fields late at night in Matteson, Illinois, a rural community 30 miles southwest of Chicago. The 28-year-old farmer told police officers that he needed to prepare his fields for spring planting after days of rain had put him behind schedule. The real problem? A few years earlier, subdivisions had been built near Dettmering’s corn and soy bean fields. The new residents claimed they couldn’t hear their TVs above the tractor noise. Others were having trouble sleeping. Two neighbors complained to the police, and Dettmering was booked and fingerprinted. “What were these people thinking when they moved to the country?” he asked. “It’s not like these farms snuck up on them.”<sup>55</sup>

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<sup>51</sup> Morrison, *Prairie State, A History*, 116.

<sup>52</sup> Salamon, 35.

<sup>53</sup> Ibid.

<sup>54</sup> *Illinois Agriculture Illinois Farm Facts Illinois Agricultural Statistics Service*, April 1999, [www.nass.usda.gov/il/website/farmfacts.htm](http://www.nass.usda.gov/il/website/farmfacts.htm).

<sup>55</sup> Ibid., 82–84.

## Manhattan Township Developmental History

Present-day Manhattan Township was bisected by an old Native American trail running from the Des Plaines to the Kankakee Rivers, which roughly followed the route of today's U.S. Route 52. In the 1830s and 1840s, the area was known familiarly as Five Mile Grove, after the only sizable stand of timber in the township, located at Sections 7 and 8 of Manhattan Township. This location was so named because it was about five miles south of the Hickory Creek settlement in New Lenox Township. The small stream flowing through the grove was named Jackson Creek at the suggestion of Wesley Jenkins of North Carolina, who settled in Jackson Township in 1832.<sup>56</sup>

The first European settlers in Manhattan Township came to grove in the mid-1830s. These first residents included Orrin Stevens, who built a cabin in the grove in 1834, the Perkins brothers of Trenton, New York, Jerrod Gage, and Hiram Harvey. For the 1842 Will County roll of property owners, only four owners are listed for Manhattan Township, all of whom presumably resided at the grove.<sup>57</sup>

Intensive agricultural development and settlement of the open prairie surrounding the grove did not begin until the late 1840s and especially the 1850s. The first settler of the second wave of pioneers was Clark Baker, who settled here in 1847, followed by Bryan Gorivan and Martin Bergan of Ireland in 1848 and John Young and Samuel Bowen in 1849. It was not until after 1850 that the primary roads through the township were surveyed and graded, including the future U.S. Route 52, Baker Road, and Manhattan-Monee Road.<sup>58</sup>

As of 1850, only ten voters (240 persons total) resided in Manhattan Township. Much of the township was originally settled by Yankee farmers from the east, especially New York State. The Yankees were soon followed by German and Irish immigrants. With the organization of township government in 1850 in Illinois, the area of Manhattan was combined with Green Garden into Trenton Township, since there were less than 25 voters in Manhattan Township at that time. By 1853, the population of Trenton Township had increased enough for separate Green Garden and Manhattan Townships to be established. The name "Manhattan" was adopted at suggestion of the first supervisor, John Young.<sup>59</sup> During the 1850s, the township was sparsely settled, and livestock roamed freely. The first road bridges over Jackson Creek and Prairie Creek were built in 1855.<sup>60</sup>

During the Civil War, at least twenty-six Manhattan residents served in the U.S. Army.<sup>61</sup> Through the 1860s, the population in the village continued to grow, with strong demand for wheat and corn during the war years. In the late 1860s, a railway to run from Decatur to Chicago passing through the southeastern portion of Manhattan Township was proposed, but plans for the line were abandoned after the 1871 Chicago Fire.<sup>62</sup>

<sup>56</sup> George H. Woodruff, *History of Will County, Illinois* (Chicago: William Le Baron, Jr., & Company, 1878), 541.

<sup>57</sup> *Will County Property Owners, 1842*, extracted from *Souvenir of Settlement and Progress*, 1884 (Will County Historical Society, 1973). In Manhattan Township, the owners listed are Patrick Boyle, Edwin Perkins, Elijah Rice, and Edward R. Scott.

<sup>58</sup> *Memories with Progress* (1986), Chapters I and II.

<sup>59</sup> Young was born in New York around 1798, and came to Manhattan Township with his wife Carolyn and their three children Mansfield, Caroline, and Edward in 1849.

<sup>60</sup> Township records for meeting of 5 April 1855, cited in *Memories with Progress* (1986).

<sup>61</sup> George H. Woodruff, *Patriotism of Will County* (Joliet, Illinois: Joliet Republican Steam Printing House, 1874).

<sup>62</sup> *Memories with Progress* (1986), Chapter II.

By 1870, population had increased to 922 persons, all of European descent, of whom 318 were foreign born. In about 1875, the Green Garden post office was moved west into Manhattan Township, at the farm of O.J. Williams in Section 24.<sup>63</sup>

No village or manufacturing of any kind in the township prior to the construction of the Wabash railroad in 1879–1880.<sup>64</sup> For business and market needs, local residents traveled to Joliet. When the railroad began service in 1880, the depot was located near the intersection of the two primary roads in the township, the Joliet Road (U.S. Route 52) and the Manhattan-Monee Road. In 1881, John Whitson and the Trask family subdivided some of their property in the northwest quarter of Section 20 around the depot, which became the core of the Manhattan business district. John and his brother David Whitson both served in Company I of the 76th Illinois Infantry during the Civil War. After the war, the brothers settled in Manhattan Township, sharing a 160-acre farm in the southeast quarter of Section 18. In 1880, John bought a 120-acre farm in Section 20. When the railroad came through his property less than a year later, he platted the earliest portions of the village, generally south of Manhattan-Monee Road (North Street) and west of Eastern Avenue. He also is credited with suggesting that the new village share the name of the township.<sup>65</sup>

Business development occurred rapidly around the new depot, including a boarding house (the Vandenberg Hotel) and a blacksmith shop.<sup>66</sup> Another new industry in the village was a tile and brick factory operated by Willis A. Straight. Straight and his brother Lee built the factory in 1883 on 20 acres east of the railroad and just south of the village. Straight was President of the Village Board of Trustees for one year in the late 1880s, and later he owned a farm in Section 29 of Will County.<sup>67</sup> Manhattan was organized as a village in 1886. In 1905, the Illinois, Iowa and Minnesota Railway was built to connect Joliet and Kankakee parallel to the historic trail, today's U.S. Route 52.<sup>68</sup>

At the crossing point of two rail lines, by 1907 the village of Manhattan included two hotels, a grain warehouse, several stores, three churches, a bank, several dwellings, but no manufacturing. In the 1920s, dairying was successfully begun in the northern part of the township, but most farmers continued to grow grain. In the 1920s, U.S. Route 52 was paved with concrete, and bus service connecting to Joliet and Kankakee was begun. The village in the 1920s included auto garages, a blacksmith, four grocery stores, two hardware stores, a drug store, two banks, two doctors and a dentist. A public library had been established, and four churches served the community.

In the 1940s, the Elwood Ordnance Plant opened southwest of Manhattan Township. One a series of ordnance plants in the United States, the plant was constructed between 1940 and 1943 for the United States Army. Most of Section 31 of Manhattan Township was incorporated into the plant, although the bulk of the plant was located farther southwest. With the decommissioning of many redundant military installations in the 1990s, large portions of the site were transferred to the U.S. Forest Service and became the Midewin National Tallgrass Prairie in 1997. Although only three percent of the land area of the reserve had native plantings at that time, cleanup and restoration work has begun in the 2000s to restore larger areas to their natural conditions.

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<sup>63</sup> Ibid. This is survey site 275 in the present survey, 1988 survey site number 24-01. The house which served as the Manhattan post office in the late 1870s has been demolished since 1988.

<sup>64</sup> The railroad was begun by the Chicago and Strawn Railroad Company, but shortly thereafter was sold to the Wabash Railroad, which in turn merged with the Norfolk and Western Railroad in 1964, today known as the Norfolk Southern Corporation.

<sup>65</sup> *Portrait and Biographical Album of Will County, Illinois* (Chicago: Chapman Bros., 1890), 411–415, 498–499.

<sup>66</sup> *Memories with Progress* (1986), Chapter IV.

<sup>67</sup> *Portrait and Biographical Album* (1890), 389–390. Today, the former site of the tile factory has been developed as a baseball diamond and tennis courts.

<sup>68</sup> This railroad was sold to the Milwaukee Road after the 1910s. The route was abandoned in the 1970s.

Perhaps not surprisingly for a rural community close to a major urban center, Manhattan Township contains several contemporary industrial sites that serve the wider metropolitan area. One of these is a petroleum storage depot in the southwest corner of Section 20; the storage depot originally opened in 1917 by Sinclair-Cudahay. This is a trans-shipment depot which pumps crude oil via pipelines to refineries in northwest Indiana.<sup>69</sup> A more recent development was the construction of a 640-megawatt natural gas-fired electrical generation plant in the south half of Section 27, which began operations in June 2000.

The expansion of the village with the construction of new homes and businesses has accelerated in the 2000s. After averaging about 40 new house permits per year in the 1990s, the village government issued more than 200 permits per year after 2003. In 2004, developer Lakewood Homes announced plans to construct over 3,600 homes, potentially tripling the population of the village in a few years.<sup>70</sup> Passenger rail service returned to Manhattan when Metra began new service to downtown Chicago in January 2006, with two trains departing in the morning and two trains returning in the evening.



Above left: The former railroad maintenance building in Section 17. Above right: The new Metra passenger train station, opened in January 2006.

The village of Manhattan has several historic buildings associated with its ongoing role as a railroad junction and agricultural marketplace. In Section 17 is an industrial type building built to service trains on the Illinois, Iowa and Minnesota Railway. Farther south in Section 20 is a large grain elevator, with two adjacent contemporary grain bins.



Above: The grain elevator in the village.

<sup>69</sup> This storage depot was the site of an intense fire sparked by lightning on 11 June 1925.

<sup>70</sup> Nancy Munson, "Southwest suburban Manhattan could soon triple in size," *Chicago Tribune*, 22 August 2004, 7D.

### **Schools**

The first school in present-day Manhattan Township was a log structure constructed in 1852 in Section 8 along present-day Baker Road.<sup>71</sup> With the increase in population in the township in the 1850s, it was proposed to construct one-room wood frame schoolhouses for eight school districts. Construction started in 1855, and by 1872, the township supported eight schoolhouses serving 415 pupils with 13 teachers.<sup>72</sup>

By 1908, a new two-story brick schoolhouse was completed in the village, and seven one-room schoolhouses continued to serve the larger township. The village schoolhouse was located on the present-day site of Anna McDonald Elementary School. At about this same time, a two-year high school program was introduced. Students would typically transfer to Joliet High School to complete their studies.<sup>73</sup> The high school program was discontinued in 1942.

In the years 1949 to 1951, the one-room schoolhouses were eliminated in Manhattan Township. The larger elementary school in Manhattan village was retained, and additions were built to the school in the 1950s and 1960s to accommodate students from the entire township. An addition to the school in 1968 included the demolition of the original 1908 portion of the building, replacing it with a new one-story wing.<sup>74</sup>

As a result of contemporary population growth in the township, Manhattan Junior High was built in 1994 on Smith Road in the southwest quarter of Section 8 of the township for grades 6 to 8, with Anna McDonald School thereafter used for grades K to 5. In 2005–2006, a new elementary school was constructed on Gougar Road in Section 18. Named the Wilson Creek Elementary School, this building opened for classes in August 2006. For the 2006–2007 school year, students in preschool through grade 2 will attend Wilson Creek, grades 3 through 5 will attend Anna McDonald, and grades 6 through 8 will attend Manhattan Junior High.



*The Wilson Creek Elementary School on Gougar Road opened for classes in August 2006.*

<sup>71</sup> *Memories with Progress* (1986), Map Site E.

<sup>72</sup> *Memories with Progress* (1986), Chapter II; L.J. Farrington, *Public Education in Will County, Illinois* (Dissertation, Northern Illinois University, 1967), 108.

<sup>73</sup> Farrington, 176, 313–316.

<sup>74</sup> *Memories with Progress* (1986), “Manhattan School District #114.” The name Anna McDonald was adopted in 1965 to honor the former teacher and principal of the school.

Since 1951, the northern two-thirds of Manhattan Township have been a part of the Lincoln-Way Community High School District. The original high school opened in 1954 in New Lenox. From fall 1977 to fall 2001, the high school district operated two campuses, one for grades 9 and 10 in Frankfort and one for grades 11 and 12 in New Lenox. Since fall 2001, both campuses have been operated as four-year schools, with Manhattan Township students attending Lincoln-Way Central High School in New Lenox. In 1993, the high school district purchased 80 acres in Manhattan Township for a future high school site.<sup>75</sup> Since 1951, the southern third of Manhattan Township has been part of the Peotone High School district, with students attending classes in Peotone village.

Two one-room schoolhouses survive in Manhattan Township. After consolidation of the rural school districts, the buildings were adapted for use as farm outbuildings. One, the Paton School, was originally located in Section 11. In 2005, this schoolhouse was moved to a new site across Baker Road in Section 2 and placed on a new concrete and limestone foundation. The school was listed as a Will County landmark in 2005. The owner intends to restore the building as a museum.<sup>76</sup>

The Manhattan Center School in Section 21 was moved across Manhattan-Monee Road from Section 16 to its present site on the Cockle farmstead circa 1952 (see page 107).



*Left: The Paton School in Section 11. Right: The Manhattan Center School, originally located in Section 16, now in Section 21.*

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<sup>75</sup> <http://www.lw210.org/district/history/>

<sup>76</sup> Will County Historic Preservation Commission Historic Landmark Nomination–Staff Report, case number HPC 05-30 dated 24 October 2005.

### ***Churches***

The first church in the township was Episcopal Church, which built a wood frame building in 1857 in Section 15 on Cedar Road north of the intersection with Manhattan-Monee Road, at the site of the present-day Manhattan Center Cemetery. This building was moved into village to a site on Park Street in 1897. By 1957, ten families were members of this congregation. The church was permanently closed in the early 1960s and was sold in 1972.

The Manhattan Methodist congregation was organized in 1858, and services were held in the Manhattan Center School. A new church was built in the village in 1883. The church was greatly damaged by fire in 1917, and in 1918 the building was moved about fifty feet to a new location and greatly renovated. A contemporary brick bell tower and north face were later added to the church.<sup>77</sup>



*Left: The Manhattan Methodist Church before the renovation of 1918. Right: A view of this church building today. A contemporary addition has replaced the original entrance tower, and the building has been raised on a new foundation.*

St. Paul's United Church of Christ in Manhattan was founded as St. Paul's Evangelical Lutheran Church in 1903. The first church building was constructed in 1904. A new church was built by this congregation in 1954–1955.



*left: The new St. Paul's church constructed in 1954–1955. Right: The original St. Paul's church, constructed 1904, which today serves as the home of the Manhattan First Baptist Church. The 1964 addition is visible at the rear of the building. A photograph of this building with its original bell tower is published in Memories with Progress (1986).*

<sup>77</sup> *Memories with Progress* (1986).

The Manhattan First Baptist Church was first organized in the 1950s. By 1961, the congregation had increased in size such that the old St. Paul's church building could be purchased. An educational wing was added to the building in 1964.

The first Catholic church was a small wood frame building completed in 1890 and expanded in 1895. At first, this church was operated as a mission of Sacred Heart parish in Joliet, but in 1905, St. Joseph's parish was established. In 1922, the old church was moved to a new foundation, and a new brick church building was constructed. Starting in 1925, the old church was used as a school and convent. A new school building was constructed in 1961. The church was greatly reconstructed in 1972–1973. St. Joseph's Cemetery in Section 7 of the township was established in 1910.<sup>78</sup>



*At left, St. Joseph's Catholic Church, reconstructed in 1972–1973 on the plan of the 1922 church building. At right, St. Joseph's Cemetery on U.S. Route 52 in Section 7.*

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<sup>78</sup> Ibid.

**Bridges**

The historic bridges in Manhattan Township include a number of concrete road bridges, built by the township government in the 1920s and 1930s. Also of interest is the wooden trestle that carried the Wabash Railroad over Prairie Creek in Section 29.



*Above left: The historic concrete bridge at the Intersection of Kankakee and Bruns Roads. Above right: The Wabash Railroad trestle over Prairie Creek in Section 29. Below left: The Cherry Hill Road bridge over the north branch of Jackson Creek in Section 6 has limestone abutment walls. Below right: The Baker Road bridge over Jackson Creek, Sections 5 / 8.*



## CHAPTER 3

### AMERICAN RURAL ARCHITECTURE

#### Farmstead Planning

The relationship of the farmhouse to the barn and other farm buildings was generally determined by five factors: topography, weather conditions, convenience and labor efficiency, land survey organization, and, most importantly for some settlers, ethnic or regional tradition. A south facing orientation secured maximum light; an orientation toward the east allowed a barn to place its back against west prevailing winds. Local snow accumulation also influenced barn locations. In much of the Midwest, the geometric grid of roads and survey lines was basically aligned with compass directions, and farmers often lined up their barns and farm buildings in conformity. Where the terrain was more rugged, farmers followed the contours of the land in laying out buildings. In terms of labor efficiency, the barn did not need to be near the house except in areas where winters were cold and harsh. It was desirable to locate the barn closer to the field and other outbuildings than to the house.

#### Development of Balloon Framing

The initial settlement of Will County coincided with one of the most revolutionary developments in American building construction: the introduction of the balloon frame. Referred to as “that most democratic of building technologies,”<sup>79</sup> the balloon frame allowed the construction of a house with a minimum of labor and a moderate amount of carpentry skills: the key to the success of the balloon frame was the proper construction and erection sequence of its components. Prior to the development of the balloon frame, builders using timber for the construction of houses and other structures used structural systems such as the box frame or braced frame. It utilized heavy timbers to form posts, girts, girders, braces, and rafters, all fastened together with traditional carpentry joining such as mortise and tenons, splices, dovetails, and others. This type of structural system required builders to have a crew of five or six men to raise and set the heavy timbers.<sup>80</sup> The materials used in the construction of a balloon frame structure consisted of milled lumber that was much lighter in weight than heavy timbers.<sup>81</sup>

Credit for the development of the balloon frame is usually given to George Washington Snow of Chicago,<sup>82</sup> although others give note that the originator of the system was a carpenter, Augustine Taylor, who with Snow built the first structure using balloon frame construction, St. Mary’s Church, in 1833.<sup>83</sup> At that time Chicago lacked a sawmill to produce the cut lumber, but mills were present in Indiana and in

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<sup>79</sup> Michael P. Conzen, “The Birth of Modern Chicago,” in *1848: Turning Point for Chicago, Turning Point for the Region* (Chicago: The Newberry Library, 1998), 22.

<sup>80</sup> For a thorough discussion of the early architectural history of Illinois, see Thomas Edward O’Donnell, “An Outline of the History of Architecture in Illinois,” *Transactions of the Illinois State Historical Society* (Springfield, Illinois, 1931); and Thomas Edward O’Donnell, “Recording the Early Architecture of Illinois in the Historic American Buildings Survey,” *Illinois State Historical Society, Transactions for the Year 1934* (Springfield, Illinois, 1934).

<sup>81</sup> Advances in milling techniques in the early 1800s and the invention and development of machinery to produce nails from iron in the late 1700s and early 1800s preceded the development of the balloon frame.

<sup>82</sup> Paul E. Sprague, “Chicago Balloon Frame: The Evolution During the 19<sup>th</sup> Century of George W. Snow’s System for Erecting Light Frame Buildings from Dimension Lumber and Machine-made Nails,” in *The Technology of Historic American Buildings*, H. Ward Jandl, ed. (Washington, D.C.: Foundation for Preservation Technology for the Association for Preservation Technology, 1983), 36.

<sup>83</sup> Fred W. Peterson, *Homes in the Heartland: Balloon Frame Farmhouses of the Upper Midwest, 1850–1920* (Lawrence, Kansas: University Press of Kansas, 1992), 14.

Plainfield in northwestern Will County.<sup>84</sup> However, these mills were relatively far away, and transportation of milled heavy timbers difficult and expensive. Therefore, it was necessary to develop a more economical construction system.

The classic balloon frame consists of the following elements:<sup>85</sup>

- A sill, made from a large section of milled lumber (e.g., 4x8) or two or more smaller pieces (two 2x8s), set on a masonry or concrete foundation,
- Floor joists (2x10, 2x12, etc.), typically at 16 inches on center,<sup>86</sup> reinforced by diagonal bridging, nailed to the sill and nailed to:
- Studs (2x4 or 2x6), also set at 16 inches on center, running the full height of the building wall, to which is nailed:
- Ledgers to support the second floor joists,
- Exterior wall sheathing, consisting of wood boards (1x8), often set at a diagonal to create a structural diaphragm,
- A top plate on the stud wall, on which are set:
- Roof rafters (2x10, 2x12, etc.) set at 16 to 24 inches on center, to which roof sheathing consisting of wood boards are nailed, followed by wood roofing shingles,
- Exterior wall siding,
- Flooring nailed to the wood joists, consisting of two layers of wood boards (a rough board subfloor followed by a finished wood strip surface,
- Interior wall finish, consisting of wood lath nailed to the wood studs, covered by two to three layers of plaster.

Since a carpenter with one or two helpers could frame and sheath a small one story house in one week, the balloon allowed a settler to have a dwelling on their land in a short amount of time. In addition, there was a 40 percent savings in the amount of material to enclose the same volume as compared to the braced frame.<sup>87</sup> Additions were as easy to construct as the original house, and easier to frame into than if braced framing was used. Another benefit of the balloon frame's light weight was that it allowed a structure to be moved more easily to a new site, if more room was needed on a property for other buildings or if additional land was obtained.

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<sup>84</sup> Sprague, "Chicago Balloon Frame," 37.

<sup>85</sup> As with any new system or technique, there was a period of transition in which older framing methods were used along side balloon framing. This is discussed in Sprague, "Chicago Balloon Frame."

<sup>86</sup> Platform framing, also called Western framing, developed from balloon framing, allowing floor joists to be spaced up to 24 inches on center. Platform framing involved setting each floor level as a platform on the stud walls, allowing the use of shorter stud walls.

<sup>87</sup> Peterson, 9 and 11.



Farming trade publications touted the benefits of the balloon frame to their audience.<sup>88</sup> All of its inherent advantages led American farmers to adopt it as the standard structural framing system for houses by the end of the century. Although many ethnic groups brought their own techniques of constructing farmhouses and farm buildings with them to the United States, they often adopted balloon framing techniques in whole or in part and adapted it to their traditions.<sup>89</sup>

As different architectural styles were introduced, the balloon frame was easily modified to create the forms and spaces required. Albert Britt of Illinois, in his book *An America That Was*, describes his family's new farmhouse that "cost nearly a thousand dollars".<sup>90</sup>

Farmhouses were built without benefit of architect or reference to a particular style or period. Such plans as existed were principally in the head of the local carpenter who bossed the job. Ours was named Perkins and he came from Alexis, all of six miles away . . . A model of our house could have been made easily with a set of child's building blocks, but it was roomy and comfortable without dormers, turrets, or scrollsaw ornamentation, which were unpleasantly common on dwellings of that time. Prime consideration was enough interior space to suit a family's needs, and if the house was leakproof through rain and snow and windproof for anything short of a cyclone, all hands were satisfied. Houses were painted white, window blinds green. Barns were always painted red and as the color weathered some of the barns were beautiful. If a barn was in sight from the road it usually had the year of construction painted on it in large white numerals.<sup>91</sup>

With the completion of the new farmhouse, Britt goes on to describe how the older farm structures were adapted for new functions: "with the building of a new home the little old one became a stable for horses, and the lean-to kitchen the family smokehouse."<sup>92</sup> This shows the flexibility that the framing system allowed, since these new functions required new or larger openings, relocating the structure, or construction of additions.

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<sup>88</sup> Peterson, 15–24.

<sup>89</sup> One example was German-Russian farmers from Eastern Europe: "German-Russians eventually combined *Batsa* brick with balloon-frame construction, placing clay brick in walls between the studs to stabilize and insulate the dwelling." (Michael Koop, "German-Russians," in *America's Architectural Roots: Ethnic Groups that Built America*, Dell Upton, ed. (New York: Preservation Press, John Wiley & Sons, 1986), 131.)

<sup>90</sup> Albert Britt, *An America That Was* (Barre, Massachusetts: Barre Publishers, 1964), 33.

<sup>91</sup> *Ibid.*

<sup>92</sup> *Ibid.*

## Masonry Construction

### *Brick*

Historically, brick masonry construction was somewhat uncommon in the survey area. A few distinctive and well preserved historic brick houses exist in the survey area, as well as a small number of brick outbuildings. The historic brick buildings in the survey area were typically built in the first decades of the twentieth century. Two examples of brick construction are shown below.



*Examples of brick masonry construction in the rural survey area. Left: house in Section 20. Right: milk house in Section 34.*

### *Concrete*

Although concrete was used by the Romans in antiquity, its use in recent times dates from the mid-nineteenth century. In 1860, S.T. Fowler patented a type of reinforced concrete wall construction, but it was not until the 1870s and 1880s that examples had actually been constructed. By 1900 numerous systems of reinforced concrete construction had been patented.<sup>93</sup>

Concrete was seen as a material with great potential for use on the farm. Farmers were given guidance in using concrete on the farm, recommending its use in a variety of structures:

Concrete can be used on the farm for residences, barns, poultry houses, garages, piggeries, stalls and mangers, milk houses, machine sheds, ice houses, silos, all kinds of tanks and troughs, vats and wallows, manure pits, septic tanks, piers and foundations, sidewalls, steps, driveways, hen nests, pump pits, fence posts, etc.

Of all the buildings on the farm, which should be built of concrete, probably none is more important than the silo. Here is a structure in which it is essential to keep the silage fresh in order that the stock may be kept thrifty and growing all winter. The silo prevents a waste of corn stalks, which contain about one-third of the food value of the entire crop, and it enables a large number of animals to be maintained on a given number of acres. The concrete silo is ratproof, windproof, fireproof and will withstand cyclones. It will not dry out in the hot summer months, keeps the silage in perfect condition and can be constructed at a moderate first cost. There are four types of silos: Monolithic, cement block, stave and cement plaster construction.

. . . Concrete buildings contain no crevices in which to harbor vermin, and this freedom from lice makes it possible for the birds to retain more flesh at the end of the setting period and therefore

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<sup>93</sup> William B. Coney, "Preservation of Historic Concrete: Problems and General Approaches," National Park Service Preservation Brief 15, 2.

more strength. Poultry can withstand dry cold when housed, but cannot endure dampness or drafts from below, and a concrete floor will also keep out rats. Instances are known where concrete is used successfully for nests, dropping platforms and roosts, thus greatly simplifying the problem of cleaning. The first requirement of a milk house is that it is scrupulously clean, and the construction should be such as to eliminate breeding places for germs and cracks or crevices for dirt to collect, making cleaning difficult or impossible. A milk house properly constructed of concrete fulfills these requirements, and concrete floors are recommended for sanitary reasons, with proper provisions for draining. The milk house should be located with reference to other buildings, such as stables and manure pits.<sup>94</sup>

The survey area contains numerous examples of cast-in-place concrete structures, including silos, milk houses, pump houses, and of course building foundations.



Left: Cast concrete silo, Section 32. Right: Silo foundations, Section 6.

### **Concrete Block**

Beginning in the early 1900s, mass production of concrete block units succeeded after several earlier developments failed to lead to widespread production.<sup>95</sup> Harmon S. Palmer patented a cast iron machine with a removable core and adjustable sides in 1900, allowing companies and cottage industries to spring up across the country. Palmer founded the Hollow Building Block Company in 1902, selling \$200 block machines. Other manufacturers who flooded the market with similar machines (without directly infringing on Palmer's patent) led to increased use of concrete block in building construction.

The blocks were produced by mixing Portland cement, water, sand, and gravel aggregate; placing the mixture in the machine and tamping it down to eliminate voids; and pulling a lever to release the block from the machine. Newly made blocks were stacked until the concrete cured, typically for one month. Blocks were made with a variety of face textures and even color, with "rockface" block being one of the most popular styles.<sup>96</sup>

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<sup>94</sup> "The Use of Concrete Work on the Farm," *Building Age* (February 1917), 102–103.

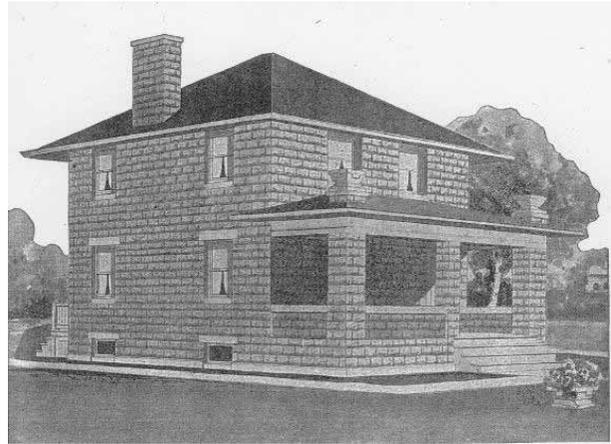
<sup>95</sup> Pamela H. Simpson, *Cheap, Quick, and Easy: Imitative Architectural Materials, 1870–1930* (Knoxville, Tennessee: University of Tennessee Press, 1999), 11.

<sup>96</sup> *Ibid.*, 24.

Although early block machines and block manufacturers produced units relatively larger than contemporary units, by the mid-1920s standards were introduced by concrete products organizations that included fabrication of units 8 by 8 by 16 inches in size. Other standards, produced by the National Association of Cement Users, the Concrete Producers Association, and the Concrete Block Manufacturers Association, promoted testing to improve quality.<sup>97</sup> However, concrete block began to fall out of favor as a building facing material during this same period. During the 1930s, smooth-faced block began to dominate the industry as architectural styles changed. Also by the later 1930s, mass production of block units began to supplant the use of earlier concrete block machines.

Just as with concrete, farmers were encouraged to use concrete block for their structures. At the annual meeting of the Illinois Farmers' Institute in 1913, one lecturer discussed concrete block for silos:

It is clear that the cash outlay for material becomes of the first importance and cost of labor becomes second. To illustrate, a man in such circumstances might have gravel on his farm. Also, he might have lumber, which he could use temporarily for the scaffold. The cost of cement block molds is slight, and if this man were somewhat of a mechanic, he would find it advantageous to secure a mold or molds and make his own cement blocks at odd times. In this way a cement block silo could be built with less cash outlay than any other form of silo.<sup>98</sup>

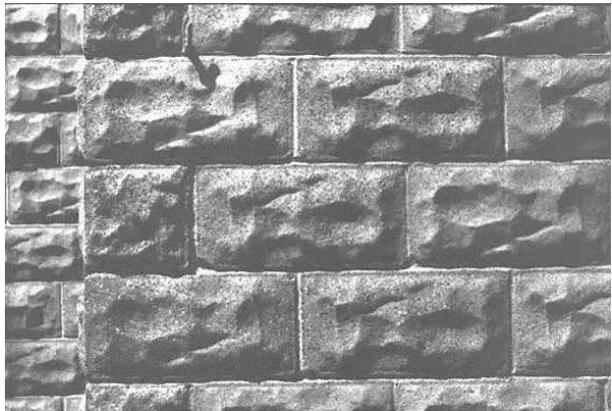


The survey area has a small number of concrete block structures, including at least one farmhouse and many utilitarian farm outbuildings. Top left: a farmhouse in Section 11. At top right is an illustration from Wm. A Radford's *Cement Houses and How to Build Them* (circa 1910).

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<sup>97</sup> Ibid., 21–22.

<sup>98</sup> M.L. King, "Planning the Silo," in *Eighteenth Annual Report of the Illinois Farmers' Institute*, H.A. McKeene, ed. (Springfield, Illinois: Illinois State Journal Company, 1914), 64.



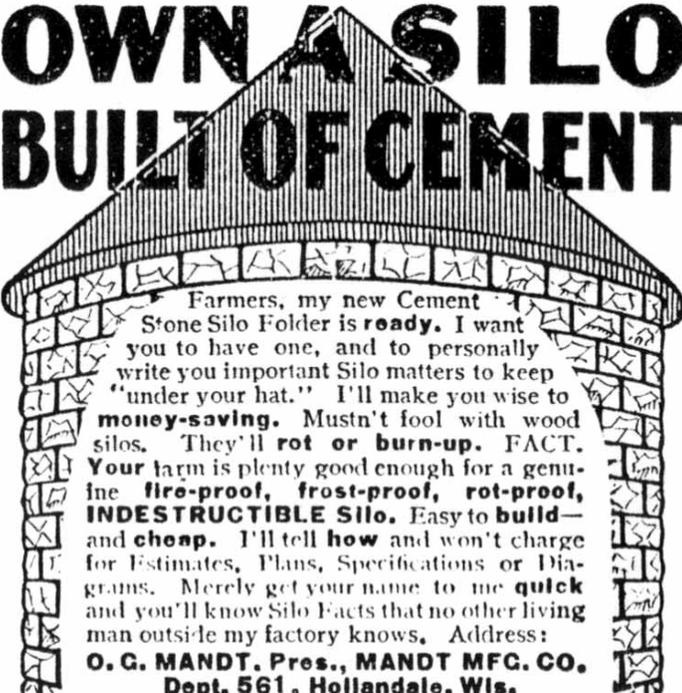
*Middle left: Machine shed in Section 1. Middle right: Milk house in Section 28. Bottom left: a machine shed in Section 33. A detail view of typical rock face concrete masonry units is at bottom right.*

Building trade journals also promoted the use of concrete block on the farm:

If one may judge from the demand and the variety of uses to which it is put, the concrete block is the most important of all cement products. When properly made it has not failed to give satisfaction as a building material and much of its popularity has resulted from the pleasing architectural effects that have been brought about. Hollow blocks represent a considerable saving in cost, without reducing the strength so as to impair the safety of the building. The use of facings to bring about pleasing exterior treatments has its advantages while the interior air chambers allow them to conduct heat or cold but slowly. This fact makes buildings of this material warm in winter.

The survey area has many good examples of the use of concrete block, generally for utilitarian structures. The one farmhouse built from concrete block is an American Foursquare types, since that was the most popular style of rural residential construction in the first two decades of the twentieth century.

## OWN A SILO BUILT OF CEMENT



Farmers, my new Cement Stone Silo Folder is ready. I want you to have one, and to personally write you important Silo matters to keep "under your hat." I'll make you wise to **money-saving**. Mustn't fool with wood silos. They'll rot or burn-up. **FACT. Your farm is plenty good enough for a genuine fire-proof, frost-proof, rot-proof, INDESTRUCTIBLE Silo. Easy to build—and cheap.** I'll tell how and won't charge for Estimates, Plans, Specifications or Diagrams. Merely get your name to me **quick** and you'll know Silo Facts that no other living man outside my factory knows. Address: **O. G. MANDT, Pres., MANDT MFG. CO., Dept. 561, Hollandale, Wis.**

### **Mandt Says** **"Build It of Cement"**

Listen! The man who puts up a wood silo invites **Trouble**. If it doesn't burn down, blow over or warp to pieces it **rots out**, that's certain. Bound to do it. Silage contains moisture and sharp acids that eat right into wood or metal. Your wood Silo springs a leak in jig time, spoiling tons and tons of valuable ensilage.

Of course you need a **Silo**. But are you going to experiment a while before getting the right kind? Why don't you get one that is **Fire-Proof, Rot-Proof, Frost-Proof, Water-Proof and Rat-Proof**—in other words, an **Indestructible Cement-Stone Silo!** Do you think a permanent silo of this kind costs too much? If you do, then I know you haven't seen my estimates, figures and book of facts that I have just finished writing. You need it mightily bad—and quick.

**Get My New Folder on Indestructible Cement Silos**

I am the pioneer in modern manufacturing cement-stone construction. In my new folder I tell you things about silo building that no man living outside my factory knows. Don't you want this information? Don't you want to know "how" and "how little" it costs to build an ever-lasting Indestructible Cement-Stone Silo? **AN FREE!**

May I tell you what farmers who have tried both Wood and Indestructible Cement Silos **found out?** Well, then, right away, get your name to me personally for the New Folder and you'll soon know it all. Address me this way.

**O. G. MANDT, President,  
Mandt Manufacturing Company,  
Dept. 561, Hollandale, Wis.  
Write MANDT about EVERLASTING CEMENT-STONE POSTS**



By the 1910s, farmers had several choices of silos using concrete block. Both advertisements are from the farm journal Hoard's Dairyman, 1909.

### Limestone

One building material dating from the earliest period of European settlement in the survey area was limestone quarried from the Fox and DuPage River valleys. The numerous quarries in northwestern Will County were utilized first for their limestone reserves but are primarily used today as sources of gravel.

The area surrounding Joliet contains abundant supplies of limestone, derived predominantly from the Niagaran strata. Owing to oxidation of ferrous minerals contained in the stone, the color of the stone ranges from buff near the surface to gray tones at deeper levels. Its surface is a hard, compact and slightly porous, brittle dolomite. The stone has thin seams of greenish clay (chert) running through the whole

mass, which upon long exposure in alternately wet and dry conditions causes the solid calcium carbonate layers to delaminate.<sup>99</sup>

A prosperous period for quarrying stone in the Joliet area of Will County began during the 1830s, and by 1850 a chain of quarries was developing against the bluffs on the western bank of the Des Plaines River. The limestone industry grew steadily, both in number and acreage size of firms. The Great Chicago Fire of 1871 provided enormous stimulation to the stone quarrying industry. Not only was stone needed at once to replace destroyed buildings, especially in the city center, but new building ordinances created a “fire” zone in which wood construction was in theory prohibited. Many new quarries were started to cater to the increased demand.<sup>100</sup>

As the quarry industry peaked in the 1880s, many smaller businesses were bought out by much larger operations or forced by competition to abandon their sites. The consolidation of established quarries changed the methods of the business. Tools to crush, cut, rub, and saw stone became more advanced and raised production, while some of the old established quarries saw themselves eclipsed by newer and larger enterprises. However, the availability of more durable Indiana limestone starting in the latter part of the nineteenth century and the discovery of the lack of long-term durability of the Joliet stone, in addition to the introduction of other building materials such as concrete, led to the decline of the stone industry in Will County.

Throughout the first two decades of the twentieth century, the industry continued to decline. In an Illinois Geological Survey report of 1925, it was reported that “the main uses of dolomite from this area are for road material, concrete, flux, agricultural purposes, building stone, and sidewalks.”<sup>101</sup> The report also stated that building stone or flagstone (for sidewalks) was no longer a major product of the quarries, and that “with the present tendency towards the use of brick and artificial stone, it seems fairly certain that the dimension stone industry of this area is not a growing industry.”<sup>102</sup> A number of quarries remain in business today, depending on the demand for crushed stone to keep their sites open and active.<sup>103</sup>

Due to the remoteness of Manhattan Township from the primary quarrying sites in northwestern Will County, very few limestone masonry structures exist in the township. In the nineteenth century, limestone was used primarily for building foundations.

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<sup>99</sup> Linda Ponte, “The Celebrated Joliet Marble Field,” in *An Historical Geography of the Lower Des Plaines Valley Limestone Industry, Time and Place in Joliet*, Michael Conzen, ed. (Chicago: The University of Chicago, 1988), 15.

<sup>100</sup> Ibid.

<sup>101</sup> Fisher, 118. In the mid-1920s, Illinois State Penitentiary at Stateville (now Stateville Correctional Center) was under construction and utilized concrete extensively. Gravel for the concrete mixing was quarried by inmates in the region. But the primary involvement of the Illinois prison system with the Des Plaines valley limestone industry was the quarry at the “old prison” at Joliet (now Joliet Correctional Center). The quarry at the prison, using inmate labor, produced stone material for construction, although use of this stone began to be restricted to state agencies after the early 1900s.

<sup>102</sup> Ibid., 119.

<sup>103</sup> Ibid.

## Classification of Farmhouses

Most built structures can be grouped into one of three categories of stylistic classification: “high style,” where the building clearly relates to a defined architectural style in form and detail; vernacular or “folk architecture,” where builders or owners without formal architectural training construct buildings based on regional or cultural customs, and where stylistic elements derived from style books are applied or mixed within the same structure; and utilitarian, where style is entirely secondary and efficient use of materials is the primary factor in the design. Most buildings fall into the categories of vernacular and utilitarian. Farmhouses were usually built by a builder or carpenter, and reflect general types of houses popular at the time. A discussion of the utilitarian types of farm buildings is covered later in this chapter. The discussion below first describes the architectural *styles* found to some degree in the survey area. This is followed by an outline of the *types* of farmhouses, since most of these structures are better categorized by this means, with only the applied ornament being classified by style. Some houses in the survey area have undergone extensive renovations, making identification of a style or type difficult. In these situations, an assessment has been made as to possible original style or type with notes made in the comment portion of each survey form giving additional information on additions or alterations.

### *Architectural Style*

In the second half of the nineteenth century, architectural styles were disseminated through style books promoting not only aesthetic features of houses but also the orderly qualities for a proper domestic environment.<sup>104</sup> Another source of building ideas was agricultural journals. Although carpenters and builders rarely followed such books and journals exactly, these publications did influence the types of houses being constructed (as discussed in the next section) as well as the stylistic elements applied to those houses. Although it is unlikely that many of the buildings in the survey area were built using designs or supervision of academically trained architects, many of the farmhouses were built by carpenters and builders competent at applying fashionable architectural styles in their work.

### *Greek Revival*

The Greek Revival style was popular in the United States beginning in the 1820s and continued in some regions until the 1870s. Inspired by archaeological excavations and measured drawings of ancient Greek temples, the style was developed by America’s first trained architects and spread by pattern books that influenced carpenters and builders across the relatively young United States. American culture found an identification with the democracy in Ancient Greece. Greek Revival buildings have simple rectilinear forms, prominent classical ornament, molded cornices and window lintels, and other ornamental motifs inspired by Classical architecture. The style’s simple massing and details went along with the sometimes limited materials and resources of rural areas.

### *Gothic Revival*

Gothic Revival was roughly contemporary with Greek Revival, although with very different inspiration. It utilized late Medieval Gothic forms that have vertically oriented massing with steeply sloped roofs, and detail features such as pointed arches, narrow lancet windows, decorative bargeboards and finials, battlemented parapets, and clusters of chimney stacks. Like Greek Revival, pattern books guided architects and builders. Andrew Jackson Downing’s *The Architecture of Country Houses* helped popularize this style. Gothic Revival architecture is not strongly present in the rural survey area, although some buildings have ornamental features inspired by the style.

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<sup>104</sup> Peterson, *Homes in the Heartland*, 68.



*Left: Although greatly altered, this house in Section 10 retains a Gothic Revival-style round attic window. Right: This house in Section 29 has a number of Italianate style decorative elements, including arched window hoods and porch brackets.*

### ***Italianate***

Italianate, or Italianate Victorian, was one of the most popular and fashionable building styles in the mid-1800s, popular from about 1850 to 1880. Inspired by Italian Renaissance architecture, Italianate style houses feature rectilinear massing, low pitched roofs, overhanging eaves with bracketed cornice, and tall rectangular windows. Other features often present are moldings or hoods around window lintels (which are sometimes arched) and polygonal or rectangular bays or towers. There are several farmhouses with Italianate style detailing such as window hoods or brackets in the survey area.

### ***Second Empire***

Roughly contemporary with Italianate was the Second Empire style, which took its name from the public buildings with mansard roofs built under French emperor Napoleon III. (The first empire was the reign of his uncle, Napoleon). The style was transformed and applied in the United States to domestic as well as institutional buildings. In addition to the mansard roof and architectural features often present on Italianate buildings, Second Empire buildings often feature rich classical or baroque detailing and dormer windows with moldings or hoods. No true examples of Second Empire are extant in the rural survey area.

### ***Queen Anne***

Popular in the last two decades of the nineteenth century, this building style in its purest form utilized irregular, asymmetrical massing and floor plans, several types of building materials, and extensive ornament to create an eclectic architectural tapestry that was often picturesque and entertaining. None of the farmhouses in the survey region reflect all of the primary elements of Queen Anne, although the massing and details of some of them show Queen Anne influence, likely due to the influence of the style on builders and carpenters.



*Left: This house in Section 33 is a local example of the Queen Anne style. Right: This house in Section 32 is a more typical rural example of the Queen Anne style.*

### ***Colonial and Georgian Revival***

After the comparative excesses of the Italianate, Second Empire, and Queen Anne styles, the Colonial and Georgian Revival styles are more restrained and utilize stricter use of ornament and proportion. Introduced on the east coast at the end of the nineteenth century, the Colonial Revival style spread to the Midwest over the next decade and became an influential style for larger homes and public buildings into the 1930s. The rectilinear forms of Colonial Revival structures are often symmetrical and have gabled roofs with dormers, classical columns and ornament, and ornamental window shutters. Georgian Revival buildings differ in that they adhere more closely to symmetrical floor plans, have strong cornice lines, Flemish bond brick coursing, watertables, and other elements of traditional Colonial period architecture. The survey area has one farmhouses that could be classified as Georgian Revival.

### ***Craftsman or Arts and Crafts Style***

The Arts and Crafts movement originated in England in the mid-nineteenth century, although it did not become fashionable in the United States until the first two decades of the twentieth century. The style favored simple designs with natural materials, low-pitched roofs, battered wall treatments, exposed rafters, and casement and double hung windows. Although there are no true examples of Craftsman or Arts and Crafts farmhouses in the region, there are a few with elements having its stylistic influence.



*Left: This house in Section 32 has a Craftsman style front porch at left; the porch at right is a recent addition. Right: This bungalow in Section 5 has Craftsman style eave brackets.*

### ***Prairie Style***

The Prairie Style was developed by several architects in the Midwest but originated chiefly from the Chicago area, where Frank Lloyd Wright, Walter Burley Griffin, Marion Mahony Griffin, William Purcell, and George Elmslie (among others) formulated a set of principles uniquely suited to and inspired by the American suburban and rural landscape. In many ways this style developed from the Arts and Crafts movement, although it was a distinct style with its own characteristics. Prairie Style structures are characterized by broad, horizontal massing, hipped and gabled roofs with deep overhangs, asymmetrical floor plans, and geometric detailing based on nature motifs. Natural and earth-toned materials such as wood, stucco, and brick predominate, and windows often have leaded glass windows that repeat and develop nature motifs. The style was fashionable from around 1895 to 1920. The survey area does not have any “high style” Prairie Style houses.

### ***Tudor Revival***

From about 1910 to 1940, Tudor Revival was one of several fashionable revival styles in practice. Based on English late medieval architecture, the style was adapted to unique American building forms created by the balloon frame. Although Tudor Revival buildings were also built in stone, the use of wood and stucco to imitate a half-timbered appearance was a predominant feature. Often times only the ground or first floor was clad with stone while the upper story was clad with wood and stucco “half-timbering.” The style also utilized asymmetrical floor plans and massing, narrow multi-paned windows, prominent masonry chimneys, and steeply sloped roofs. The survey area does not have any Tudor Revival style houses.

### ***House Types***

Vernacular residential dwellings are not always suited to classification by architectural style because style is not the primary organizing principle in their design. Most vernacular houses relate to a *type* that describes or classifies their massing and floor plan. This section discusses the different types of housing found specifically in the survey area. Additional types and subtypes do exist but have been excluded because they are not pertinent to the discussion of Manhattan Township.

During the survey, few structures could be readily identified that date from the earliest period of settlement (approximately the 1840s and 1850s). House types dating from the earliest settlement may have used configurations known as single pen or double pen, which basically are one or two room houses respectively. A double pen dogtrot consists of two rooms with the space in between covered by the roof. A saddlebag house is similar to the double pen except for the inclusion of a central chimney between the two rooms.

The house types classified below are those that are typically found in the survey area. As with any classification system, alternate systems could be utilized. Most of the definitions provided below were derived from *How to Complete the Ohio Historic Inventory* by Stephen C. Gordon.<sup>105</sup> Building forms followed the movement of settlers from New England westward through the Ohio Valley to Illinois.<sup>106</sup> However, a significant number of the settlers in the survey area were new immigrants to the United States. Their influence on the region's buildings is visible in some of the extant house types, but more readily visible in the barns and other farm structures.

### ***I House***

The name "I House" was first recognized in 1930 as a housing type in Indiana that had originated in the Middle Atlantic states. The form was later identified in the other Midwestern "I" states of Illinois and Iowa.<sup>107</sup> The form consists of a two story, one room deep plan that is at least two rooms wide. Chimneys were often placed at each end of the floor plan.



*The I-house type is not strongly present in Manhattan Township. The one clear example of the type, in Section 33, is now being expanded and remodeled.*

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<sup>105</sup> Stephen C. Gordon, *How to Complete the Ohio Historic Inventory* (Columbus, Ohio: Ohio Historic Preservation Office, 1992).

<sup>106</sup> For overviews of patterns of ethnic migration and diffusion, see Fred B. Kniffen, "Folk Housing: Key to Diffusion," in *Common Places: Readings in American Vernacular Architecture*, Dell Upton and John Michael Vlack, ed. (Athens, Georgia: University of Georgia Press, 1986); and John A. Jakle, Robert W. Bastian, and Douglas K. Meyer, *Common Houses in America's Small Towns: The Atlantic Seaboard to the Mississippi Valley* (Athens, Georgia: University of Georgia Press, 1989).

<sup>107</sup> Kniffen, 7–8.

### ***Hall and Parlor***

The Hall and Parlor house is a simple rectangular plan dwelling one to one-and-a-half stories in height, with a side oriented gable roof. In plan, these types of houses have one larger room for the kitchen and daily living and a side room used as a more formal parlor or a bedroom. There is often an addition at the rear of the house extending from the parlor side. Chimneys are often placed at each end of the house. The type was used less often after the late 1800s.<sup>108</sup> Few Hall and Parlor houses were identified in the survey area. Other houses in the survey may have started as Hall and Parlor types, but through renovations and additions have evolved into other forms.

### ***Side Hallway***

Side Hallway houses are typically simple rectilinear volumes, two stories in height, and often with gable roofs oriented to the front or the side. In plan the entry is at the end bay of the front elevation, opening into the main stair hall. Adjacent to the hall is the main parlor with additional rooms at the rear of the house. The form was popular until the 1880s.<sup>109</sup>

### ***Upright and Wing***

The Upright and Wing is a common house type in the survey area.<sup>110</sup> The Upright and Wing was popular in the mid to late 1800s. The type consists of an upright portion with a gable end, usually one-and-a-half to two stories, and a one to one-and-a-half story wing. The gable end of the wing is usually at or below the eave of the upright. Upright and Wing type houses have T- or L-shaped floor plans. Inside, the wing contains a kitchen and one or two bedrooms and the upright a parlor and additional bedrooms.<sup>111</sup>



*Upright and Wing farmhouses are common in the survey area. Section 16, Section 23.*

<sup>108</sup> Gordon, 125. Since the form can be confused with later cottage types of houses, one feature that can date it properly is the height to width ratios of the window openings: tall window openings usually date a house to the 1800s.

<sup>109</sup> Ibid., 126.

<sup>110</sup> Peterson groups the Upright and Wing with the Gabled Ell type (both being forms of L- or T-plan houses), making it “the most numerous and familiar farmhouse type in the Upper Midwest...” (Peterson, *Homes in the Heartland*, 96.) Peterson also notes that many L- and T-plan houses are the result of additions being constructed to existing rectangular house forms (Ibid., 99).

<sup>111</sup> Gordon, *How to Complete the Ohio Historic Inventory*, 132.



*Upright and Wing farmhouses are common in the survey area. Section 6, Section 24*

***Gabled Ell***

The Gabled Ell type of farmhouse is also a common house type in the survey area. This type of house usually dates from the two decades after the Civil War.<sup>112</sup> It has an L-shaped plan, sometimes with additions to form a T-shaped plan, and usually is two stories in height with a gabled roof. Within the main “L” there is often a porch. In most arrangements, the gable end of the shorter of the two wings faces the street or main approach with the broad side of the other wing at the side.



*The Gabled Ell farmhouse type is very common in the survey area. Above: Section 11, Section 29. Below: Section 19, Section 32*

<sup>112</sup> Ibid., 136.

### ***Four-over-Four***

The Four-over-Four basically consists of a central hallway flanked by two rooms on each side in a house two to two-and-a-half stories in height. This house type usually has a gable roof, with the ridge line running parallel to the front face. Exploiting balloon frame construction, the form was popular in the middle 1800s, although it returned during the vogue of the Colonial and Georgian Revival styles. A few Four-over-Four farmhouses are present in the survey area.



*Four-over-Four, Section 22.*

### ***Gable Front***

The Gable Front house describes a variety of house types dating from the mid-1800s through the 1920s. It is similar to the Four-over-Four, except that the main entrance at the gable end facing the street or main approach. It is also similar to the Side Hallway type, and usually has a rectangular floor plan.



*Gable Front, Section 9*

### ***American Foursquare***

The American Foursquare<sup>113</sup> was introduced around 1900 and continued to be popular until the 1920s. It consists of a two to two-and-a-half story block with a roughly square floor plan with four rooms on each floor. Roofs are hipped or pyramidal, with dormer windows (hipped and gable) on at least the front

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<sup>113</sup> The term “American Foursquare” was coined by Clem Labine, former editor of the *Old-House Journal*. (Gordon, *How to Complete the Ohio Historic Inventory*, 137.)

elevation and sometimes the side and rear elevations. Foursquares usually have front porches, but they may also have bay windows (some extending both stories) and one story rear additions. Many Foursquares were built from plans developed by local lumber companies or mail order sources that advertised in farm journals; others were purchased whole and delivered as pre-cut, ready-to-assemble houses from Sears, Roebuck and Company or home manufacturers.



*The American Foursquare is another farmhouse type that is very common in the survey area. Above: Section 28, Section 30. Below: Section 32, Section 5.*

### ***Bungalow***

The term bungalow derives from the word *bangla*, an Indian word adopted by the British in the nineteenth century for a one story house with porches. The American house form descended from the Craftsman movement, using natural materials and simple forms to create an informal domestic environment. Popular from approximately 1905 to 1935, there are two basic types of bungalows (and numerous subtypes), each deriving its name from the dominant roof forms. The Dormer Front Bungalow (also called the Shed Roof Bungalow) has a gable or shed roof turned parallel to the front elevation and a single large dormer. The Gable Front has a front facing gable, with the ridge of the roof running perpendicular to the main elevation. The relatively few examples of the Bungalow type in the rural survey are somewhat simpler than those found in city and suburban neighborhoods and lack stylistic features such as exposed roof beams, ornamental wall trim, or shingle siding.



*The survey area has two similar Gable Front Bungalows. The one at left is in Section 5; the one at right is in Section 23.*

### ***Cape Cod***

The Cape Cod was a popular house type in the quarter century after the mid-1920s. The type was inspired by eighteenth century cottages in Massachusetts and Virginia.<sup>114</sup> The Cape Cod has a simple rectangular plan, one story in height with dormers and a gable roof.



*This small house in Section 15 is similar to Cape Cod types.*

### ***Ranch***

Because it is a relatively recent domestic architecture development (it generally dates from the post-World War II era), ranch style houses were generally not recorded in the rural survey. The presence of a ranch style house was noted on the site plan of surveyed farmsteads to indicate that these houses likely replaced the original house on the site or provided an additional dwelling on the property. Ranch style houses are usually one or at most two stories and have rambling floor plans and relatively low-pitched hipped or gabled roofs. Although much of the newer housing in recently developed areas has features and elements reminiscent of older architectural styles (Colonial Revival, Dutch Colonial, or even Queen Anne), its true architectural lineage traces back to the ranch houses of the 1950s and 1960s.

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<sup>114</sup> Ibid., 140.

## Development of the Barn

The barns of the American Midwest have several typical functions: animal shelter, crop storage, crop processing, equipment storage, and machinery repair. However, barns also have specialized functions designated by adjectives such as “sheep” barn or “dairy” barn. In some instances a substitute term was used such as hog house or implement shed, especially if a larger multipurpose “barn” is also on the farm. Nonetheless, these structures shared some similar forms and structural systems.<sup>115</sup>

Pioneer settlers, faced with clearing virgin forest or breaking sod, usually had little time to do more than erect a roughhouse and perhaps a crude animal shelter in the first years of settlement. Not until after some ten years on a homestead, or perhaps not even until the second generation, did the pioneer have the means to construct a large barn.<sup>116</sup>

The need for large barns necessitated the development of structural systems to enclose large volumes of space. As the frontier of settlement passed into the Midwest, many early barns were constructed of logs by settlers who either possessed log-building skills or gained these techniques by association with other ethnic or cultural groups. Although the eastern Midwest was well forested, providing sufficient log materials, the prairies of the central Midwest (including Illinois) had less forested land to supply log construction. Therefore, other solutions were required.<sup>117</sup>

The skeletal framework of barns consists typically of sill timbers resting directly on the foundation (usually stone, although concrete was introduced in the early 1900s). The sills also form the substructure for the floor joists and wall framing. The barn’s joists sometimes remained round, except for the top side, which was flattened to accommodate floorboards. Most early barns had a gable roof composed of rafters, rough sawn boards, and wooden shingles. Vertically attached boards, some as large as fourteen inches wide, ran from the sill to the top plate of the wall for siding on timber frame barns.<sup>118</sup>

As discussed earlier in this chapter, light framing techniques and advanced wood milling machines influenced the development of Midwestern farmhouses. However, barns continued to be built with heavy timber. As these large framing members became scarce and expensive in the early twentieth century, new innovations were sought, such as plank framing that featured the substitution of plank lumber for heavy long, square timbers.<sup>119</sup>

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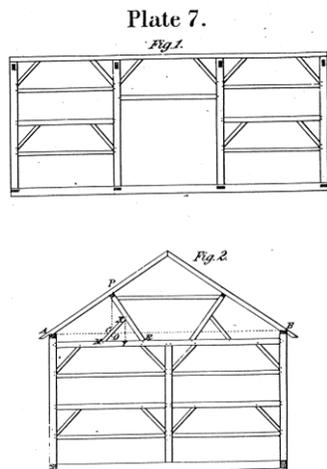
<sup>115</sup> Allen G. Noble and Hubert G.H. Wilhelm, “The Farm Barns of the American Midwest,” in *Barns of the Midwest*, Allen G. Noble and Hubert G.H. Wilhelm, ed. (Athens, Ohio: Ohio University Press, 1995), 9.

<sup>116</sup> Hubert G.H. Wilhelm, “Midwestern Barns and Their Germanic Connections,” in *Barns of the Midwest*, 65.

<sup>117</sup> Ibid.

<sup>118</sup> Ibid., 48–50.

<sup>119</sup> Lowell J. Soike, “Within the Reach of All: Midwest Barns Perfected,” in *Barns of the Midwest*, Allen G. Noble and Hubert G.H. Wilhelm, ed. (Athens, Ohio: Ohio University Press, 1995), 147. Two major forms of plank framing developed. The first took dimension plank lumber and imitated heavy timber framing, carrying the loads through posts and beams. The second type opened up the center of the barn by using a truss for the framing bents. This was followed by an adaptation of the balloon framing for barn construction. Stud walls replaced posts and girts for handling loads; roof loads were carried by trusses made from lighter weight lumber (Ibid., 155–156).



*A drawing of heavy timber barn framing from 1894 (William E. Bell, *Carpentry Made Easy, or the Science and Art of Framing* (Philadelphia: Ferguson Bros. & Co., 1894), plate 7). The nineteenth century braced frame barn in Section 30 shown at right shows similar framing and bracing.*

At the beginning of the twentieth century, new barn building ideas emerged from a growing field of experts: agricultural engineers, experiment station researchers, and commercial farm planning services. The American Society of Agricultural Engineers (ASAE) soon contained a committee on farm structures after its formation. The result of these efforts widened the variety of barn building plans available to farmers and encouraged improved building standards.<sup>120</sup> At about this time, manufacturers and marketers of pre-cut, ready-to-assemble houses (such as the American Foursquare house type discussed above) entered the market for barn construction. Two major Iowa firms, the Loudon Machinery Company of Fairfield and the Gordon-Van Tine Company of Davenport, advertised plans for their pre-cut barns along with their pre-cut homes.

Engineering research led to the development of framing for gambrel roofs, culminating in the Clyde or Iowa truss. (The shape of the gambrel roof allowed a larger loft space to store hay than the gable roof allowed.) The first step in this development was the work of John Shawver of Ohio, who developed a gambrel truss form using sawn lumber. The Iowa truss was developed by A.W. Clyde, an engineer with the Iowa State College farm extension service, around 1920. It allowed construction of a stiff frame at far lower cost than the Shawver truss, which required expensive extra-length material.<sup>121</sup>

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<sup>120</sup> Ibid., 158.

<sup>121</sup> Ibid. The open loft, free from interior braces like those used in the Shawver and Iowa trusses, was finally achieved with the laminated gothic arch roof. The gothic roof was developed over a two decade period, with an early system using sawn boards 12 inches wide, 1 inch thick, and 3 to 4 feet long from which the outside edge was shaved to the needed curvature. Three or four plies were laminated together with nails, with splices staggered along the curve. These rafters were placed 2 feet on center. However, due to the material wasted in shaving the lumber and the labor consumed in sawing and nailing, farmers and builders were slow to adopt this system. Bent or sprung arches were the second major type of curved rafter construction, first used in an experiment in Davis, California, in 1916. The perceived savings in material and labor required to produce the same contour by bending instead of sawing, made this system more popular. Bent-rafter gothic arch construction, although more economical in labor and material, proved less rigid than the more expensive sawed type. For this reason, many farmers adopted a combination of the two, with the sawed rafters spaced every 8 to 12 feet and the bent rafters spaced between, twenty-four inches on center (Ibid., 161–2).

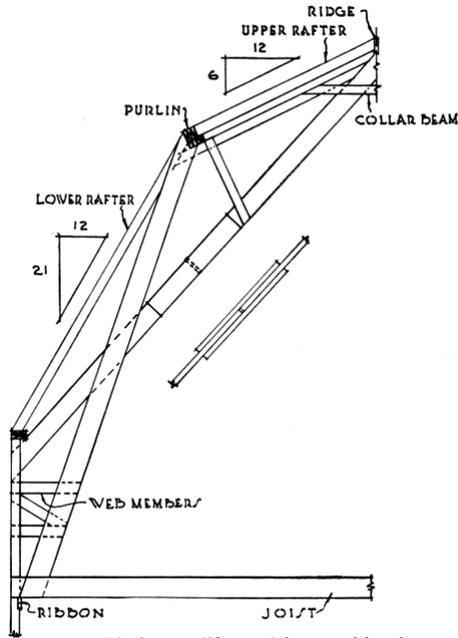


Fig. 68. Plank-truss (Shawver) barn roof framing.

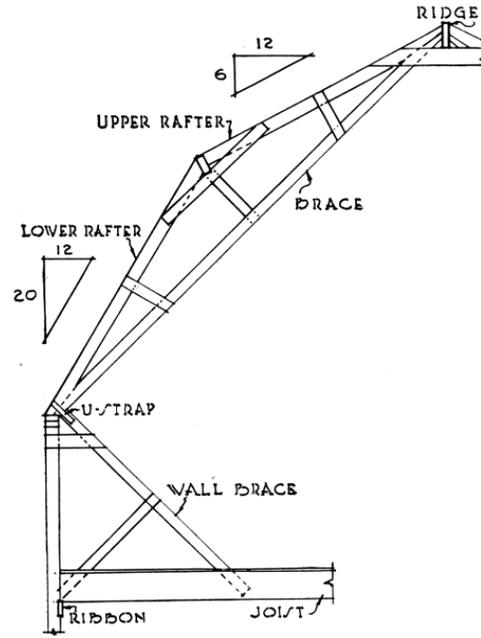


Fig. 69. The Iowa roof truss.

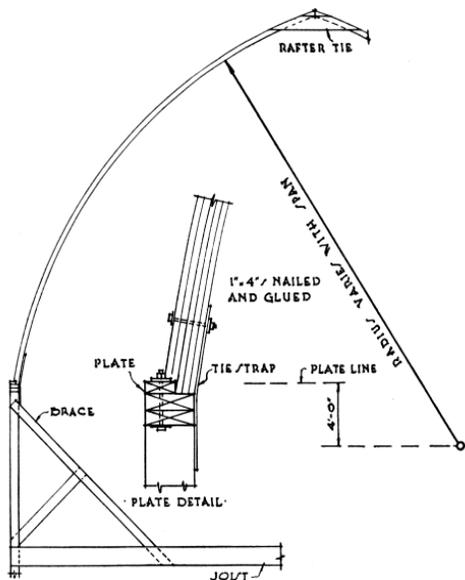


Fig. 72. Laminated, bent rafter in Gothic arch.

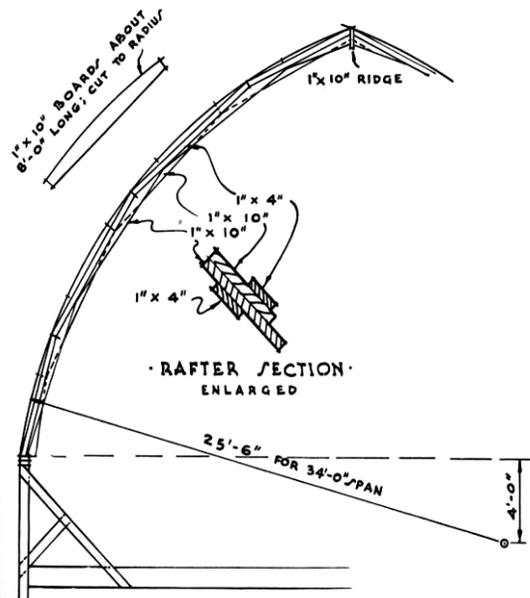


Fig. 73. Gothic rafter, sawed form.

*The Shawver, Iowa, laminated gothic arch, and sawn gothic arch barn roof rafters. (Deane G. Carter and W.A. Foster, Farm Buildings, Third Edition. New York: John Wiley & Sons, 1941), 136, 138, 140, and 141).*

During the 1930s, the Gothic roof entered the last phase of its evolution. At Iowa State Agricultural College, Henry Giese tested existing types of laminated bent rafters in an attempt to solve their shortcomings. Working in collaboration with Rock Island Lumber Company, distributor of Weyerhaeuser Forest Products, he explored the potential of modern glues to yield a stronger bent rafter. Using Douglas fir, clear of knots and defects, glue-laminated under approximately 100 pounds per square inch of pressure and shaped to an arch form, the rafter was stronger than those laminated conventionally with nails and bolts (either the shaved- or bent-lumber techniques). Rafter performance was also improved with the use of hinge connections at the supports. Weyerhaeuser was marketing these factory-built rafters

under the trademark of Rilco by 1938.<sup>122</sup> The United States Forest Products Laboratory also performed tests on glued laminated construction. Their laboratory tests showed that laminated rafters were two to four times stronger than ordinary bent and sawed rafters laminated with nails.<sup>123</sup>

The two-story loft barn ceased to be built after World War II.<sup>124</sup> In the first half of the twentieth century the dependence on draft animals waned and mechanical power in the form of tractors increased, and farmers no longer needed loft space.<sup>125</sup> Farmers began to build fewer custom wood frame structures, which were susceptible to fires, as manufactured buildings using steel became available. Early metal-barn types, such as Quonsets, gained a notable measure of popularity among some Midwestern farmers immediately after World War II. One of the leading manufacturers of Quonset barns and sheds was the Great Lakes Steel Corporation of Detroit, whose structures were purported to be fireproof, rat-proof, and sag-proof. Corrugated metal was also a suggested covering for wooden barn siding, and organizations as the Asbestos Farm Service Bureau promoted the use of asbestos-based cement boards for re-siding old barns.<sup>126</sup>

Because lofts were no longer needed, one story barn construction became more standard in the post-war years. The shift from loose to baled or chopped hay reduced the need for haymows as many farmers adopted the “loose-housing” or “loafing” system for housing cattle. University of Wisconsin agricultural scientists argued that cows would be more content and give more milk if they were allowed to roam in and out of the barn at will. The loose-housing system resulted in the construction of one-story galvanized all-steel barns.<sup>127</sup> The pole barn was a simple method for constructing the necessary enclosure for farm implements and the limited amount of hay still required on the farm. Pole barns use round poles set into small, individual foundations, to which engineered roof trusses and wall girts and siding are attached. The structural concept for the modern pole barn was developed by H. Howard Doane of St. Louis in the early 1930s. He and George Perkins, his farm manager, used creosoted wood poles (which were commonly used for telephone poles) for the vertical structural members.<sup>128</sup>

### ***Barn Types***

As with house types, several systems have been used to classify barns, either by function, shape and structural system; ethnic traditions and their influence; or regional characteristics and commonalities.<sup>129</sup> The classification types developed below are based on Allen G. Noble and Richard K. Cleek’s *The Old Barn Book: A Field Guide to North American Barns & Other Farm Structures* and Allen G. Noble’s *Wood, Brick & Stone*. Classification is often by ethnic influence, which is appropriate to the region of the rural survey because of the Scottish, Irish, and German origins and ancestry of many of its settlers; or it is by the shape and configuration of the barn.

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<sup>122</sup> Ibid., 162–163.

<sup>123</sup> Ibid., 164.

<sup>124</sup> Ibid., 165.

<sup>125</sup> In 1930, 61,000 combines were counted by the U.S. Census; in 1953, 918,000. One in six farmers already owned a tractor by 1932. In 1944, 14 percent of the nation’s hay was harvested with windrow balers; by 1948, the figure was 46 percent (Glenn A. Harper and Steve Gordon, “The Modern Midwestern Barn, 1900–Present,” in *Barns of the Midwest*, Allen G. Noble and Hubert G.H. Wilhelm, ed. (Athens, Ohio: Ohio University Press, 1995), 225.)

<sup>126</sup> Ibid., 226.

<sup>127</sup> Glenn A Harper and Steve Gordon, “The Modern Midwestern Barn, 1900–Present” in *Barns of the Midwest*, Allen G. Noble and Hubert G.H. Wilhelm, ed. (Athens, Ohio: Ohio University Press, 1995), 225.

<sup>128</sup> Ibid.

<sup>129</sup> Often there are more conflicts than agreements between different classification systems. The types defined herein seem to best describe the structures actually present and the social and ethnic origins of their builders.

### ***Three-bay Threshing Barn***

The Three-bay Threshing barn (also called the English barn) was introduced into North America through English colonial settlement in southern New England.<sup>130</sup> The English and continental European immigrants of the early 1800s introduced this barn type to the Midwest. It was originally designed as a single function barn to store or process grain and was most suitable for small-scale, subsistence farms. It is a single level, rectangular structure divided into three parts or sections, each termed a bay.

Large double doors are centered on both long sides of the structure. Hand threshing with a grain flail was done in the central bay, sometimes called the threshing bay. Following threshing, the large doors were opened to create a draft, which, during winnowing, would separate the chaff from the heavier grain, and carry it away. Flanking the central bay were the other two bays of generally equal dimensions. One was used during the fall or winter to store sheaves of harvested grain, awaiting threshing. The other bay was used for storing the threshed grain, commonly in bins, and straw, which was used as feed and bedding for horses and cattle.<sup>131</sup> Early examples had steeply pitched (over 45 degrees) gable roofs and low stone foundations. They were sided in vertical boards with small ventilation openings high on the gable ends. Windows are largely absent, although later versions included them at animal stall locations. Gable-end sheds were a common addition.<sup>132</sup>

Eventually as dairying replaced wheat production in the agricultural economy, the threshing/storage function of this barn type became less important. At first no animals were housed in the structure, although interior remodeling was often made to introduce animal stalls in one of the two side bays. This effectively reduced the grain storage and processing function and only offered shelter for a modest number of animals.<sup>133</sup> In some cases this barn type was lifted up and placed onto a raised basement, which then could house the animals, especially dairy cows.<sup>134</sup>



*Three-bay threshing barns are relatively common in the survey region. Left: Section 1. This barn shows how older barns were modified for dairying use by the addition of small windows (as at left). Right: Section 28.*

<sup>130</sup> Fred B. Kniffen "Folk-Housing: Key to Diffusion," in *Common Places, Readings in American Vernacular Architecture*, Dell Upton and John Michael Vlach, ed. (Athens, Georgia: University of Georgia Press, 1986), 11.

<sup>131</sup> Charles Calkins and Martin Perkins, "The Three-bay Threshing Barn," in *Barns of the Midwest*, Allen G. Noble and Hubert G.H. Wilhelm, ed. (Athens, Ohio: Ohio University Press, 1995), 40–41.

<sup>132</sup> Allen G. Noble and Richard K. Cleek, *The Old Barn Book: A Field Guide to North American Barns and Other Farm Structures* (New Brunswick, New Jersey: Rutgers University Press, 1995), 77.

<sup>133</sup> Allen G. Noble, *Wood, Brick and Stone*, The North American Settlement Landscape, Volume 2: Barns and Farm Structures (Amherst, Massachusetts: University of Massachusetts Press, 1984), 56–58.

<sup>134</sup> Calkins and Perkins, "The Three-bay Threshing Barn," *Barns of the Midwest*, 59.

### ***Raised, Bank, and Basement Barns***

The Raised or Bank barn originated in central New York as a shelter for dairy cattle. It was the first multi-purpose barn to gain widespread popularity. These barns are usually larger than Three-bay Threshing barns and have a ground floor level for cattle and dairy cows with an upper level for hay and feed storage. This upper level is reached by an earthen ramp, bridge, or the natural slope of an embankment. Basement barns are similar to Raised barns, in that the foundation walls extend up to the bottom of the second floor. However, Basement barns do not have ramps nor are they sited to utilize the natural topography to access the second floor. This barn type is very uncommon in Manhattan Township.



*This small barn in Section 30 is one of the few Bank barns in the survey area.*

### ***German Barn***

German barns, also called German/Swiss barns or Pennsylvania barns, includes a group of barns introduced into the Delaware valley by German-speaking settlers. It was one of the first American barn types to combine crop storage and animal shelter. It became a structure synonymous with Pennsylvania Dutch culture and its mixed grain-livestock agriculture. These barns had a lower story partially cut into the natural slope of the land and an upper level that was accessed from a slope or ramp. A forebay is formed by recessing the ground floor wall and enclosing it at each end with the masonry gable end walls. Another distinctive feature is the use of a combination of stone masonry and wood framed and sheathed walls: stone was typically reserved for gable end walls and/or north facing walls. This barn type was not observed in Manhattan Township.

**Plank Frame Barn**

This relatively small barn type originated in the eastern Midwest around 1875.<sup>135</sup> Plank frame barns can have gable or gambled roofs and are typically one story in height plus a large hay loft. They are multi-purpose, with small ground floor windows for animal stalls and a large sliding door for equipment. Their floor plans are usually small, approximately 30 by 40 feet. Plank frame barns use small dimension milled lumber rather than the heavy timber framing of earlier barn types. Plank frame barns are relatively common in Manhattan Township.



Plank Frame barn examples. Left above: Section 16. Right above: Section 18. Below left: Section 15. Below right: Section 22.



**Three-ended Barn**

This barn type is a modification to the Three-bay Threshing barn, adding a hay barn addition perpendicular to an existing barn. This addition, sometimes called a straw shed, could have less height than the main portion of the barn or be taller than the main barn. The additions could also have an open bay at ground level into which a cart could drive to unload hay into the loft space. Very few three-ended barns were observed in Manhattan Township.

<sup>135</sup> Noble and Cleek, *The Old Barn Book*, 117

### **Round Barn**

Non-orthogonal barns (round or polygonal in plan) were popular in the first two decades of the twentieth century. In Illinois, agriculture professor Wilber J. Fraser of the University of Illinois promoted the use of round barns. Although somewhat uncommon in Will County as a whole, Manhattan Township has two well-preserved and noteworthy round barns.



*Round barn examples. Left: The John C. Baker barn in Section 8 is listed as a Will County landmark. Right: This barn in Section 21 is circular in plan and has an unusual dome roof ventilation cupola.*

### **Wisconsin Dairy Barn**

A barn associated with dairying is the Wisconsin Dairy barn, which originated at the Wisconsin's Agricultural Experiment Station at Madison around 1915. It was specially designed to provide a structure for efficient dairy farming. This large barn was typically 36 by 100 feet or larger. It had a gambrel roof or occasionally a round roof, although early versions were often gable-roofed with horizontal boarding. Rows of small windows and gable-end doors were typical. There was usually a large gable-end loft opening and a triangular hay hood. Frequently there are roof ventilators.<sup>136</sup> Manhattan Township has several examples of the dairy barn type.



*Dairy barn examples. Left: Section 34. Right: Section 6; this unusually large barn incorporates a crib barn at the east end.*

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<sup>136</sup> Noble and Cleek, 77.

### ***Feeder Barn***

During the last two decades of the nineteenth century, Illinois and Iowa developed into the regional center for beef production. Farmers with rougher land, more suited to cattle than crops, raised their cattle from birth to finished beef. They fattened their stock on surplus corn, alfalfa, and feed supplements, and sold them to the rail-connected beef-processing industry in Chicago. The industry was also aided by the introduction of the refrigerated box car. In order to build a barn to hold cattle and hay, the feeder barn (sometimes called the hay barn) was developed. Cattle are housed and fed on the ground floor with a loft above to hold hay. Feeder barns are uncommon in Manhattan Township.



*Feeder barns are typically broad, low roofed structures like this barn in Section 16.*

### ***Round Roof Barn***

Round Roof Barns came into existence with structural advances in the first quarter of the twentieth century. Although called round, roof shapes for this type are often gothic arch in form. The name describes the roof shape, although the configuration of their floor plans were usually based on more typical barn types such as Plank frame, Dairy, or Raised barns. There are no examples of barns of this type in Manhattan Township.

### ***Pole Barn***

The latest major barn type, called the pole barn, evolved in the eastern Midwest. The walls of the building are hung on poles that are driven into individual footings buried in the ground below the frost line. The floor is typically concrete slab or dirt. There is no loft. Later versions usually have metal siding, especially those erected after World War II.<sup>137</sup> The pole barn is an example of economical construction techniques applied to modern agriculture.



*Pole Barn examples. Left: Section 5. Right: Section 32.*

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<sup>137</sup> Noble and Cleek, *The Old Barn Book*, 120.

### ***Quonset Shed***

Sometime referred to as Quonset “huts,” this building type originated at the U.S. Naval Air Station at Quonset Point in Davisville, Rhode Island, in 1942. Its universal use in the military made Quonset sheds seem to be an ideal economical building type in the post-war years, finding use as storage facilities, offices, homes, and commercial ventures such as movie theaters. Military Quonsets often had steel framing members to support the corrugated galvanized metal sheathing, but civilian examples used wood framing as well. Where observable, the examples present in the rural survey area usually have wood framing. Their use in the survey area includes implement sheds, animal shelters, and other types of storage.



*Quonset shed examples. Left: Section 18. Right: Section 3.*

### ***Manufactured Building***

While pole barn structures use manufactured materials assembled by a local builder or the farmer himself, manufactured buildings were developed as a complete system in the 1940s. Such buildings offer quick construction time and potentially lower cost because of the use of standardized components. The buildings also allow for large floor areas, giving farmers flexibility of usage. This building type remains common for newly constructed agricultural buildings in the survey area.



*Typical manufactured buildings. Left: Section 22, an example of this building type, now several decades old. Right: Section 4, a newly-constructed example of this type.*

### ***Grain Elevators***

Grain elevators began to be constructed alongside developing rail systems during the second half of the nineteenth century. Early elevators were often associated with the flour mills they served. They were usually timber-framed structures, as were the mills themselves.<sup>138</sup> Concrete grain elevators and silos, usually constructed in banks of two to ten or more, were constructed in the early decades of the twentieth century.

### ***Corncribs***

Pioneer farmers frequently built log corncribs during their two centuries of migration into and settlement of the Midwest. Most crude frontier log cribs were little more than bins, loosely constructed of saplings or split rails and laid up with saddle notching to hold them together.<sup>139</sup> Sometimes the logs were skinned to lessen the danger of infestation by worms and insect. The bin-like cribs were typically covered with thatch or cornstalks to help shed the rain; a board and shingle roof took more effort, required nails, and thus was more expensive. Unfortunately, thatch roof corncribs were more readily infested by rodents. Log construction of corncribs remained popular through the 1800s in areas where timber resources proved readily accessible.

The invention of the circular saw in 1860 and its growing adaptation to steam power by mid-century made lumber cheap enough for general use on outbuildings such as corncribs, enabling later versions to be built of narrow lumber slats.<sup>140</sup> The corncrib usually rested on log or stone piers.<sup>141</sup> In constructing a frame corncrib, two methods of attaching the slat siding or cribbing were used. The slats were attached either horizontally or vertically; cribbing attached diagonally for extra strength seems to have come into practice about 1900.<sup>142</sup>

The size of the corncribs remained small, even as corn production rose, during much of the nineteenth century, in part due to the practice of corn shocking. Corn could be gradually “shucked out” as needed and hauled to the crib or barn for milling and feeding to livestock. Large corncribs were unnecessary since farmers could leave much of their corn in the field until spring.<sup>143</sup> Crib width was influenced by the climate of a region; drier conditions allowed for wider cribs with no increased loss of corn due to mold. As corn production outgrew the single crib in the developing Corn Belt, double cribs were formed by extending the roof over a pair of cribs to form a gable roof. If the gap between the cribs was then lofted over, extra space was gained beneath the roof for overflow storage of ear corn. Spreading the cribs apart not only increased the loft space but created a storage area below for wagons, tools, and implements. These structures, called crib barns, became common in the Midwest by 1900.<sup>144</sup> The creation of larger corncribs and their overhead grain bins depended upon the invention of new methods to raise the grain and ear corn higher than a farmer could scoop it. High cribs were made possible by the commercial adaptation of continuous belt and cup elevators from grain mills and by the portable grain elevator grain.

In the early decades of the twentieth century, both concrete and steel were promoted as alternative construction materials for corncribs and grain elevators. The use of hollow clay tiles was also encouraged in those parts of the Midwest where they were manufactured, notably in Iowa, Illinois and Indiana.<sup>145</sup> The most common variety of concrete corncrib was made of interlocking stave blocks, which had been cast

<sup>138</sup> Keith E. Roe, *Corncribs in History, Folklife, and Architecture* (Ames, Iowa: Iowa State University Press, 1988), 176.

<sup>139</sup> Noble and Cleek, *The Old Barn Book*, 170–171.

<sup>140</sup> Roe, *Corncribs in History, Folklife, and Architecture*, 26.

<sup>141</sup> Noble and Cleek, *The Old Barn Book*, 155.

<sup>142</sup> Roe, *Corncribs in History, Folklife, and Architecture*, 27.

<sup>143</sup> Keith E. Roe, “Corncribs to Grain Elevators: Extensions of the Barn,” in *Barns of the Midwest*, 170.

<sup>144</sup> Roe, *Corncribs in History, Folklife, and Architecture*, 60.

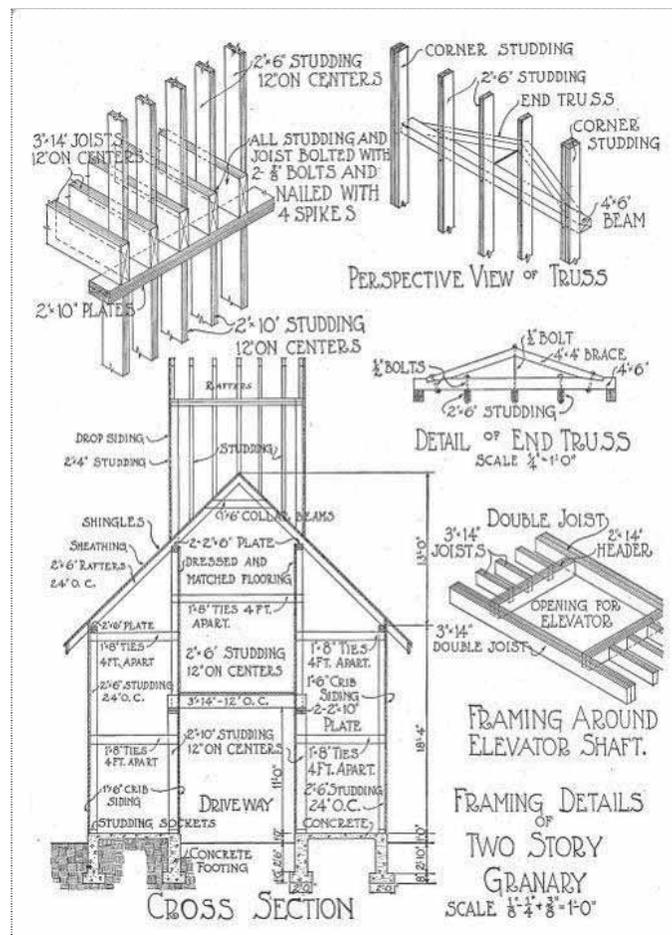
<sup>145</sup> *Ibid.*, 177.

with ventilating slots. In some cases, steel wires or rods were incorporated in the vents to keep rats out. The blocks were laid up in the form of a circular bin. These were encircled with steel rods, enabling the structure to withstand lateral pressures from the corn heaped within. Single and double bin corncribs of this type were most common, although four-bin corncribs were not unusual. Between 1900 and 1940, concrete was promoted as a do-it-yourself material, poured into rented forms, for building corncribs.<sup>146</sup>

No wood frame corn cribs were observed during the survey. Crib barns, silos, and metal grain bins are much more common.

### Crib Barns

Crib barns are simple structures formed of pens or cribs that have a space between the cribs for implement storage. There are two basic types: crib barns with the gable or roofline parallel to the cribs, and transverse crib barns with the roofline perpendicular to the pens. The configuration of crib barns developed from practical limitations and needs, such as the height to which a scoopful of corn could be pitched from a wagon (which dictated the bin height) and the size of farm equipment (which dictated the spacing between bins). Later crib barns, including many examples in the survey area, have mechanical elevators housed in a small projecting cupola at the ridge of the crib barn roof. Crib barns constructed of concrete block are also present in the survey area.



Crib barns, usually with two bins, abound in the survey area. Illustrated at left are framing details of a crib barn (Smith & Betts Farm and Building Book (Chicago: The Radford Architectural Company, 1915).

<sup>146</sup> Ibid., 176.

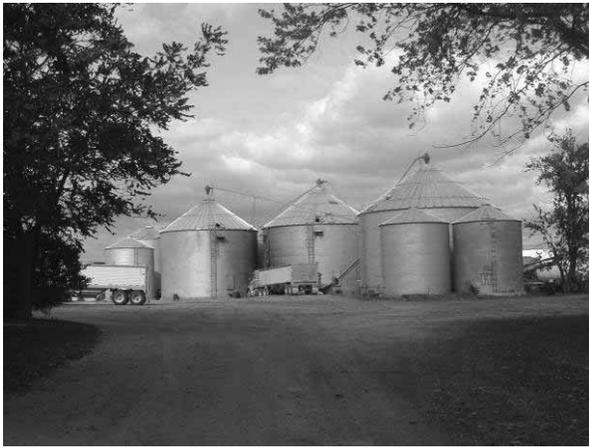


*Crib barn examples. From upper left: Section 3 and Section 6; Section 12 and Section 13; Section 13 and Section 15.*

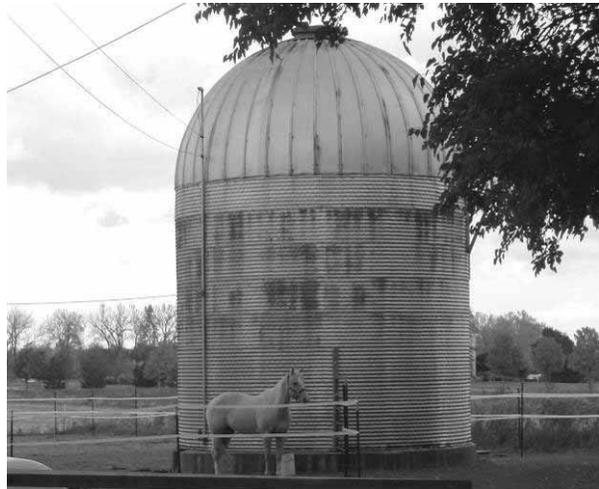
***Metal Bins***

Metal construction for corn storage came into use early in the twentieth century and was promoted by the steel industry during World War I as a crop saver for the patriotic farmer. Rectangular or hexagonal corncribs were constructed from flat, galvanized-steel sheet metal with ventilating perforations. Corrugated, curved sheets created the more common cylindrical bin type, which was usually topped with a conical roof. The steel corncrib had wall ventilation slits and, most times, a roof ventilator at its peak.<sup>147</sup> Steel was ideal for fabricating standard parts, as well as being vermin-proof. Proper design of metal bins included such factors as ventilation, consideration of structural loads from the feed to be contained, and use of a concrete or heavy timber foundation with the exterior walls anchored to the foundation. Roofs usually consisted of overlapping sheets to form a conical form.<sup>148</sup>

Corncribs made of steel rods or heavy wire mesh also became available in the 1930s. The wire mesh type was particularly popular after World War II because of its low cost, ease of filling, and low maintenance. Wire mesh type bins have fallen out of use since the 1980s, but the solid metal bins are still commonly used today.



*Metal Bin examples. Above left, Section 35. Above right, Section 5. Below left, Section 22; this type is typical of the first generation of grain bins from the 1930s. Below right, Section 22, an unusual domed roof grain bin on the same farmstead.*



<sup>147</sup> Ibid.

<sup>148</sup> R.E. Martin, “Steel Bin Design for Farm Storage of Grain,” *Agricultural Engineering* (April 1940): 144 and 146.

### *Silos*

Silos are structures used for preserving green fodder crops, principally field corn, in a succulent condition. Silos are a recent phenomenon, employed only after 1875 and not truly established until shortly before the turn of the century. The stored green fodder material is termed ensilage, which is shortened to silage. The acceptance of silos was gradual, but this type of structure eventually came to be enthusiastically embraced by farmers because it offered certain advantages. First, larger numbers of cattle could be kept on the farm because the food value of corn is greater than that of a combination of hay and grain. Second, less water was needed for stock in the winter, lessening labor requirements as frequent ice breaking and thawing was no longer required. Finally, because succulent green fodder could be fed throughout the year, cows produced milk during the entire winter season, increasing the income of the farm.<sup>149</sup>

The first silos were pits excavated inside the barn. The earliest upright or tower silos date from the late 1880s and were rectangular or square in form and constructed with the same materials and techniques as those used in the barn itself, with framed lumber walls.<sup>150</sup> Many were constructed within the barn building.<sup>151</sup> Later examples of this silo type had rounded corners on the inside formed by a vertical tongue-in-groove lining. The rectangular silo appeared in some areas as late as 1910. The octagonal silo type that followed attempted to achieve the advantages of a circular silo while keeping the ease of angular construction. In the 1890s circular forms began to be seen. A shift from the rectangular to the circular stems from the efficiency of the circular form in storing corn ensilage by eliminating air space and thereby reducing spoilage.

The wooden-hoop silo was formed with wood, soaked and shaped into gigantic circular hoop forms and then fastened together horizontally in the tower shape. This style did not become popular because the hoops tended to spring apart. A more common type of wood silo was the panel or Minneapolis silo, also known by several other names. It was advertised in numerous farm journals in the early twentieth century. It consisted of ribs set about 20 inches to 24 inches apart and horizontal matched boards (known as staves) set in grooves in the ribs. Steel hoops were placed around silo to lock the boards in place. This type of silo was made with either single or double wall construction and was polygonal in plan.

Masonry silos, constructed of hollow clay tile, brick, or concrete block, appeared in the first decades of the twentieth century. In comparison with the other two types of silos, brick silos were more difficult to construct because of the time required to erect the relatively small masonry units. There were many patents on concrete blocks for silo purposes, with some blocks curved and other finished with rock-faced building blocks. Some patented blocks had reinforcing sold with the blocks or integral with the block units.<sup>152</sup> Concrete block silos were finished on the interior with a layer of cement mortar to seal joints that might otherwise leak air or water.

The hollow clay tile silo, generally known as the “Iowa Silo,” was developed by the Experiment Station of the Iowa State College and erected during the summer of 1908 on the college farm.<sup>153</sup> Brick and tile companies manufactured curved blocks for silos, advertising them in farm journals. The main complaint regarding the hollow block silo was that the masonry units were porous and leaked water. The mortar joints on both inside and outside of wall needed to be properly pointed as a precaution against leakage. Some silo builders washed the interior of the wall with cement mortar as a further precaution. Steel reinforcing consisted of heavy wire embedded in the mortar joints.

<sup>149</sup> Noble, *Wood, Brick and Stone*, 71–72.

<sup>150</sup> Noble and Cleek, *The Old Barn Book*, 158.

<sup>151</sup> Ingolf Vogeler, “Dairying and Dairy Barns in the Northern Midwest,” *Barns of the Midwest* (Athens: Ohio University Press, 1995), 108.

<sup>152</sup> W.A. Foster, “Silo Types and Essentials,” *Hoard’s Dairyman* (21 February 1919) 201, 216, 217, and 232.

<sup>153</sup> *Ibid.*

Cement stave silos were constructed as early as 1904 in Cassopolis, Missouri, which used book-shaped staves.<sup>154</sup> Several patents existed for cement stave silos, including that of the Mason & Lawrence of Elgin, Illinois, dating from 1914.<sup>155</sup> Farmers also could make concrete staves or blocks to construct a silo or other farm structure using a block mix, either by the dry tamp method or the wet cast process. The dry tamp method involved making a relatively dry concrete mix, which was compressed into blocks in a molding machine. The wet cast process used a concrete mix with more water added, which was placed in a series of molds for 24 to 48 hours. Curing of the staves (allowing the concrete mix to attain proper strength) was important with either method. It was recommended that the staves be placed in a curing room for two or three days so the Portland cement could react with the moisture in the concrete mix. After removal from the curing room, the staves were periodically sprinkled with water until they were a week to ten days old. Further open air curing continued over an additional three weeks. Concrete staves could vary in size, but were often approximately 30 inches long, 10 inches wide, and 2-1/2 inches thick. One end of the block was concave and the other convex to allow fitting the blocks in the assembled structure.<sup>156</sup>

The finished staves (or blocks) were then ready for assembly. This excerpt from *Concrete* magazine from 1927 outlines the erection procedure for a concrete stave silo:

Concrete stave silos are quickly and easily erected. Three men can easily erect two average sized silos each week and some crews can do better than that, especially when the proper equipment is at hand. The concrete window and door frames used are precast, made in the plant where the staves are made. A light, adjustable erecting scaffold is a necessary piece of equipment. Scaffolds are of two general types those supported by a center mast and those hooked over the silo wall. Staves are fitted to position by means of a light derrick, which comes as a part of the erecting equipment.

Concrete staves are generally set up dry, no mortar being used in the joints. In some types a groove is molded entirely around the edge of the stave . . . The hoops or steel rods, placed to reinforce the silo, are set as the erection of the wall progressed. Hoops are usually composed of two or three sections, depending upon the diameter of the silo. The sections are joined by means of special lugs. After the hoops are placed in position they are drawn tight enough to hold them in position . . . After the entire silo walls are completed, the hoops are drawn tight, care being exercised to draw them all to the same tension.

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<sup>154</sup> Foster, "Silo Types and Essentials." Patents were granted on this type of stave silo in 1908, and the type was known commercially as the Playford patent cement stave silo.

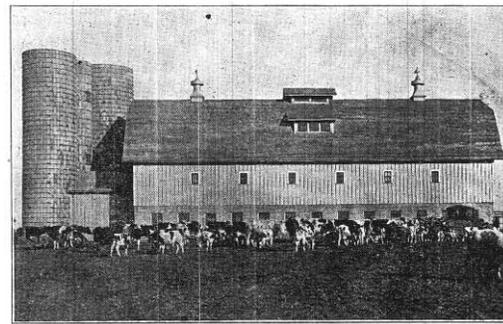
<sup>155</sup> "How to Make and Sell Concrete Silo Staves," *Concrete* (October 1927): 32–35. In addition to their own manufacturing plant, Mason & Lawrence licensed seven other companies to produce their design for concrete staves. Other patents for cement stave silos included the Interlocking patent, with an interlocking end joint; the Caldwell patent, with a stepped end joint and a steel reinforcing bar embedded in the stave; and the Perfection patent, with a hollow side joint filled with cement mortar upon erection (Foster, "Silo Types and Essentials").

<sup>156</sup> David Mocine, "Keep Workmen Busy the Year Round," *Concrete Products* (January 1948): 161. The manufacture and construction of the Mason & Lawrence precast concrete silo was described as follows (Ibid., 161–162):

Staves are formed in flat sections measuring 12 x 30 in. by 2-1/2 in. thick, with the curvature of the completed silo being taken care of by the slight angle made at the joint between each successive stave. Compressive strength of the concrete at 28 days is 70 p.s.i. and flexural strength of the completed stave at 28 days is 1400 pounds. Reinforcing is provided by 1/4-in. smooth round steel bars running the full length of the two vertical sides (concave and convex edges). Each course of staves in the silo is held in place and further reinforced by a 58 in. rolled steel band around the outside. The stave design is so engineered that these bands pull the staves against each other, forming a true curve, which is a basic point of the patent, according to Mr. Lawrence. The completed silo may be from 10 to 18 feet in diameter, and any height up to 60 feet. Chutes, receiving rooms and doorways are also formed to reinforced concrete and designed to fit the silo.

The number of hoops to be used depends on the size of the silo and the material it is to store. The silage or other material exerts an outward pressure which would burst the silo, unless the proper number of steel hoops was provided. This pressure increases in proportion to the depth of the silage. At the top of the silo, where the pressure is light, hoops are usually spaced 30 inches apart. Because the silo staves are 30 inches high, this is the maximum spacing that can be used. A little farther from the top the silos are double hooped, that is, the hoops are spaced fifteen inches apart. Some silo manufacturers double-hoop the silo for its entire height, believing that this adds to its appearance as well as to its strength. The 9/16 inch rod with rolled threads is now most generally used for silo hoops.

After the walls are erected and the hoops tightened, the interior walls are ready for a wash that seals the joints and produces a smooth, impervious surface. A cement wash, made of a mixture of cement and water and of the consistency of thick paint, is often used.<sup>157</sup>



TWIN SILOS ON THE SILVER LEAF DAIRY FARM, JOLIET, ILL., W. P. KREIMEIER, PROP.

## J. H. HOLMES

MEMBER CEMENT STAVE SILO ASSOCIATION—MANUFACTURER AND ERECTOR OF

# CEMENT STAVE SILOS

HENNEBRY BROS., SPECIAL REPRESENTATIVES  
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FACTORY: GARDNER, ILL.

The J. H. Holmes Cement Stave Silos are the original Cement Stave Silos. They have been in use in your own locality for the past eleven years. Every stave is the same size and strength, trowel plastered and guaranteed. Not a bad silo in use with over 200 users in Will County.

Above: A detail view of the steel hoops and turnbuckles on a concrete stave silo. Right: An advertisement for concrete stave silos from the *Prairie Farmer's Reliable Directory* (1918), 359.

Silos constructed with monolithic concrete walls also appeared in the early decades of the twentieth century. Concrete silos were built using “slip-forms,” with the forms usually about two feet high and lifted once the level below had cured sufficiently, leaving cold joints between each level.<sup>158</sup> Such silos could be expensive to construct since labor was required to prepare the concrete and lift the forms. However, forms could be rented from contractors or cement manufacturers. Farmers who chose to build a concrete silo could obtain guidance from farm and building trade journals. Qualities of the reinforcing steel and type, concrete components and mixing, formwork, and concrete placement were outlined, as stated in this excerpt from *Hoard's Dairymen* from 1919:

When used, the cement should be in perfect condition and contain no lumps, which cannot readily be pulverized between the fingers. Sand and gravel or broken stone should conform to the

<sup>157</sup> “How to Make and Sell Concrete Silo Staves,” *Concrete* (October 1927) 32–35.

<sup>158</sup> The presence of cold joints had the potential to allow air to enter the silo. Therefore, it was important to coat the silo interior with a layer of cement mortar. As with other silo types, this mortar layer needed to be renewed periodically.

requirements of proper grading and cleanliness . . . Water must be clean, free from oil, alkali, silt, loam, and clay in suspension. Steel used in reinforcement should be secured from one of the manufacturers specializing in steel for use in concrete construction.

Wire mesh fabrics may be used instead of steel bars but if used should contain an amount of metal equal in cross-section area to the rods for which substituted. Reinforcing rods must be properly placed to meet the stresses and strains that are to be imposed upon them. The quantity and placing of these cannot be stated without knowing the size of the structure, except that it may be said all reinforcements, whether mesh or rods, should be placed at the center of the silo walls.

Materials should be mixed with sufficient water to produce a concrete which, when deposited, will of its own weight gradually settle to a flat mass, but not wet enough to result in a separation of the mortar from the gravel or broken stone. The most desirable consistency is generally described as “quaky.” Wall foundations of footings should be made of a 1:3:5 mixture. Walls should be made of a 1:2-1/2:4 mixture. Roof, floors, and walls, and floors of tanks should be of a 1:2:3 mixture . . . Forms may be made of wood or metal but must be free from warp and sufficiently strong to resist springing out of shape when concrete is being placed. The soil will not exceed 3,000 pounds per square foot . . . Walls should be uniformly 6 inches thick and in the doorways of block silos the horizontal bars should be bent around the vertical bars alongside the doorways and twisted back upon themselves.<sup>159</sup>

In 1913, farmers were lectured at the annual gathering of the Illinois Farmers’ Institute not only about the utility of the silo but also other issues to consider:

The question of general arrangement of the farm buildings is too often neglected. This should be of second consideration, as there is beauty in utility. Often the upper portion of a well-built silo showing above the sloping roof of some of the other buildings adds very materially to the general appearance of the group of buildings. Also the side near the top often affords the best place for the farm name.<sup>160</sup>

Farm journals gave their readers information for constructing a silo with the “essential features . . . necessary to secure good, sweet silage,”<sup>161</sup> focusing primarily on the silo walls. Wall strength, smoothness of interior wall surfaces, and air and water tightness were considered essential features. The foundation for the silo typically consisted of a wall ten inches minimum in width extending below the frost line and six to eight inches above grade. Conical roof shapes were common on some early silos, but gambrel and, later, domical roofs became more prevalent.<sup>162</sup> An essential feature of any roof was a snug fit to prevent birds from entering the silo.

By the late 1940s, a new type of silo appeared: the blue Harvestore silos. Constructed of fiberglass bonded to sheets of metal, they were first introduced in Wisconsin. The glass-coated interior surface prevented silage from freezing and rust from forming. Because the container was airtight, the silage would not spoil. Augers, derived from coal-mining equipment, were used to bore the silage out at the bottom of the silo, a great change from the earlier top-unloaded silos. A large plastic bag at the top of the structure allowed changes in gas pressure to be equalized, and took up the space vacated by removal of silage.<sup>163</sup> In 1974 the company launched another line of products for the containment of manure called Slurrystore. By 1999, over 70,000 of Harvestore structures of various sizes (tall or short, narrow or stout)

<sup>159</sup> H. Colin Campbell, “Concrete Silo Construction,” *Hoard’s Dairyman* (21 February 1919): 200.

<sup>160</sup> King, “Planning the Silo,” in *Eighteenth Annual Report of the Illinois Farmers’ Institute*, 64.

<sup>161</sup> W.A. Foster, “Silo Types and Essentials,” *Hoard’s Dairyman* (21 February 1919): 201.

<sup>162</sup> Gambrel and domical roofs allowed for filling the silo to the top of the outer wall, maximizing the storage capacity.

<sup>163</sup> Noble and Cleek, *The Old Barn Book*, 108–9.

had been built.<sup>164</sup> Silos are fairly common in the rural survey area. The vast majority use concrete stave construction.



A few of the numerous silos in the survey area. Left: Concrete stave and Harvestore silos in Section 8. Center: Sheet metal silo, Section 7. Right: Abandoned concrete stave silos in Section 13.

### ***Other Farm Structures***

We did much of our own carpentering as a matter of course. The farmer who couldn't build his own henhouse or woodshed wasn't much of a farmer.<sup>165</sup>

Farmhouses, barns, corn cribs, and silos make up approximately half of the buildings surveyed as part of this study. The remaining outbuildings include many of the building types illustrated below. They include chicken houses, hog houses, milk houses, smokehouses, water tanks and windmills. As implied by the above quote, many of these outbuildings likely were built by the farmers themselves.



Left: Water tower, Section 19. Right: Pump house, Section 11.



<sup>164</sup> Harvestore Systems, DeKalb, Illinois, [www.harvestore.com](http://www.harvestore.com)

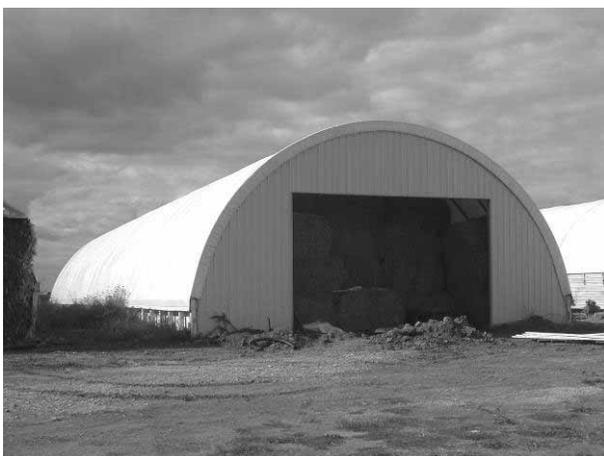
<sup>165</sup> Britt, *An America That Was*, 127.



*Left: Kennel, Section 13. Right: Chicken coop, Section 18.*



*Left: Summer kitchen, Section 35. Right: Windmill, Section 8.*



*Left: Hay shed, Section 35; this is a new type of shed made of plastic sheeting. Right: Privy, Section 1*

## CHAPTER 4

### SURVEY SUMMARY AND RECOMMENDATIONS

#### Period of Significance: 1845 to 1970

The seven townships that have been intensively surveyed to date were first settled by farmers of European origin in the late 1820s and early 1830s. Settlers first came to the region of present-day Manhattan Township in the late 1840s. Settlement accelerated with the construction of the Illinois Central Railroad across eastern Will County in 1853.

Farming would continue to be the dominant use of the land in the survey region until the recent past. Suburban development, the defining element that would alter the economic development of the region, did not begin on a large scale until the post-World War II era. As early as 1946, the village of Park Forest was established just north of Monee in Cook County. By 1970, Interstates 55, 57, and 80 had been constructed across Will County. The interstate system allowed for intensive suburban development to occur, as agriculture declined as a major social and economic force in Will County. Therefore, a closing date for the period of agricultural significance would fall approximately around 1970.

The use of the closing date of 1970, however, does not mean that all elements constructed prior to that time were surveyed. Only a select number obviously constructed between 1950 and 1970 have been included. Horse farms in Manhattan Township generally have not been included, unless they are located on an historical agricultural site. The contemporary horse farms not included in the survey of Manhattan were omitted because of their apparent disconnection to the earlier agricultural economic life of the region. Additionally, agricultural support structures such as manufactured buildings or grain bins which may post-date 1970 were included in the documentation of historic farmsteads.

#### Significance

##### *National Register and Local Landmark Criteria*

A selected number of properties within the rural survey area are potentially eligible for listing on the National Register of Historic Places. The National Register Criteria for Evaluation, as cited below, provide standards that significant historic properties are required to meet in order to be listed in the register:

The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information in prehistory or history.<sup>166</sup>

The three criteria that are most applicable to the rural survey area are A, B, and C. Under Criterion A, the survey region has significance as a historic agricultural region with over 100 years of historical

<sup>166</sup> Quoted from National Register Bulletin 15, *How to Apply the National Register Criteria for Evaluation* (Washington, D.C.: U.S. Department of the Interior, National Park Service, Cultural Resources Division, 1997), 2; originally published in *Code of Federal Regulations, Title 36, Part 60*.

significance. The survey region has less significance under Criterion B, except on a local level as discussed below. Under Criteria A and C, the survey region contains architecturally significant structures that represent the diverse range of agricultural practices that occurred during the period of significance.

In addition to eligibility for national listing, properties within the survey region are also eligible for local Will County listing, either individually as landmarks or as a group as a preservation district. The following are the criteria for Will County landmark listing as stated in the Will County Preservation Ordinance:

Criteria for Consideration of Nomination. The Commission may recommend to the County Board the designation of landmarks and preservation districts, where not more than fifty percent (50%) of the property owners whose property is located within the boundaries of the proposed district object to designation, when after a thorough investigation results in a determination that a property, structure or improvement, or area so recommended meets one (1) or more of the following criteria:

- a) It has character, interest, or value which is part of the development, heritage, or cultural characteristics of a local community, the County of Will, State of Illinois or the Nation;
- b) Its location is a site of a significant local, County, State, or National event;
- c) It is identified with a person or persons who significantly contributed to the development of the local community County or Will, State of Illinois, or the Nation;
- d) It embodies distinguishing characteristics of an architectural style valuable for the study of a period, type, method of construction, or use of indigenous materials;
- e) It is identified with the work of a master builder, designer, architect, engineer, or landscape architect whose individual work has influenced the development of the local area, County of Will, State of Illinois, or the Nation;
- f) It embodies elements of design, detailing, materials, or craftsmanship that render it architecturally significant;
- g) It embodies design elements that make it structurally or architecturally innovative;
- h) It has a unique location or singular physical characteristics that make it an established or familiar visual feature;
- i) It has character which is a particularly fine or unique example of a utilitarian structure with a high level of integrity or architectural significance;
- j) It is suitable for preservation or restoration;
- k) It is included in the National Register of Historic Places and/or the Illinois Register of Historic Places.
- l) It has yielded, or may be likely to yield, information important to pre-history, history or other areas of archaeological significance.

In the event a property, structure, or an area is found to be of such significant character and quality where it is determined that its designation as a landmark or preservation district is in the overall best interest of the general welfare, any person may nominate and the Commission may recommend to the County Board such appropriate designation.

One of the differences between national and local listing is that local significance may be easier to justify than national significance. Properties that are eligible and listed as local landmarks, but may be more difficult to nominate for the National Register, receive important recognition and thereby afforded a certain measure of protection. Eventually, these properties could be listed as National Register properties if the case for their nomination improves. Additionally, local landmark designation often gives protections that National Register listing does not. The suggested properties have been researched sufficiently in performing this survey to merit consideration as Will County Landmarks.<sup>167</sup> It should be

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<sup>167</sup> It is useful at this point to provide general readers of this report with information on the issues surrounding the designation of a property as a Landmark as embodied in the Will County Preservation Ordinance. (The issues discussed herein are current as of the date of this report.) Landmarks may be properties (including districts), structures, or natural features. Any individual or group may propose a property for designation to the Historic

noted that some of the properties with local landmark potential could be determined, after performing additional research, to have sufficient significance for National Register designation.

Another measure of recognition is the listing of farmsteads that have been “owned by a straight or collateral line of descendants of the original owner for at least 100 years.”<sup>168</sup> Since 1972, the Illinois Department of Agriculture has administered the Illinois Centennial Farms Program. Illinois has been settled by farmers since the early 1800s, meaning that some farms have been in the same family for more than 100 years. To recognize the achievement of 150 years of ownership, the Illinois Sesquicentennial Farms Program was established in 2000. Application for either program requires a written legal description and the familial line of farmer owners.

### ***Integrity***

One important issue in the consideration of significance of a property or site is its historical and architectural integrity. This can be defined as the degree that a structure or group of structures retains its original configuration and materials, and that these materials are in good enough condition that measures can be taken to extend their service life. Replacement of selected elements, such as rotted wood members, may be necessary, but total replacement is not necessary. The issue applies primarily to the exterior of the structure, although in some cases the integrity of the interior may be a factor as well.

In the areas of Will County included in this and past intensive surveys, individual buildings on farmsteads may be in poor condition or significantly altered. In these instances, determination of significance can only be made on the historical importance of the original owner or builder. Some farmstead sites have an eroded integrity because of the loss of one or more significant structures, making it difficult to recognize the agricultural connections of the site. Determination of integrity has to be made on a case by case basis. In many instances, the presence of a former farmhouse or barn alone communicates agricultural origin of the site.

Another issue that defines the integrity of a structure is the presence of historically appropriate materials. Since a 150-year-old farmhouse is unlikely to have all of its original wood siding in place, an appropriate replacement would be wood siding material of similar dimension to the original. The presence of artificial or synthetic siding material, such as metal, aluminum, or vinyl siding, seriously detracts from the integrity of the building or element. It should be noted that this applies not only to farmhouses but barns and other agricultural support buildings. To address the addition of contemporary finish materials to historic buildings while still identifying structures of historic interest, this survey report uses the terminology “potentially” significant. This terminology is used to describe structures for which the overall form and architectural character remains intact, but for which contemporary finish materials have been added to the

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Preservation Commission. Although the property owner does *not* need to be the party proposing designation, and the property owner does *not* need to grant consent in event of approval by the Historic Preservation Commission and the Will County Board, the property owner is notified in accordance with legal requirements of public hearings (adjacent property owners are notified as well).

The Will County Preservation Ordinance protects historic sites designated as Landmarks from alteration and demolition. (The ordinance also has a clause that provides for the review of demolition permits on buildings and structures 30 years and older.) All work on the Landmark (with the exception of normal maintenance) must be reviewed by the Historic Preservation Commission prior to beginning work, although work limited by economic hardship or in response to emergency situations is allowable with proper documentation. Demolition of a Landmark is permitted only after review of the demolition application by the Historic Preservation Commission, who may require written, graphic, and/or photographic documentation of the Landmark prior to demolition. Owners of Will County Landmarks are not obligated to preserve, rehabilitate, or restore their properties; however, owners may be eligible for low-interest loans, tax credits, or grants to assist with such actions. (Source: “Will County Landmark Nomination Questions,” n.d.)

<sup>168</sup> Introduction to the Illinois Centennial Farms Program application form, Illinois Department of Agriculture.

building exterior. The removal of these finish materials and the repair of the original wood siding (which typically is left in place in such installations) is a straightforward activity that, if implemented, would restore the integrity of these historic structures. Although the presence of contemporary finish materials generally disqualifies a structure from individual listing as a historic landmark in some registries, this survey report is intended to serve as a planning tool, and the identification of sites with a potential to be listed as historic landmarks increases the usefulness of this tool.

This issue is addressed in *Preservation Brief No. 8: Aluminum and Vinyl Siding on Historic Buildings*, which states the following:

Preservation of a building or district and its historic character is based on the assumption that the retention of historic materials and features and their craftsmanship are of primary importance. Therefore, the underlying issue in any discussion of replacement materials is whether or not the integrity of historic materials and craftsmanship has been lost. Structures are historic because the materials and craftsmanship reflected in their construction are tangible and irreplaceable evidence of our cultural heritage. To the degree that substitute materials destroy and/or conceal the historic fabric, they will always subtract from the basic integrity of historically and architecturally significant buildings.<sup>169</sup>

### ***Contributing and Non-contributing Properties***

Many of the farmsteads and supporting rural sites in the survey can be considered contributing to a potential rural heritage district or simply retain the character of an agricultural development. In evaluating the sites in this survey, a contributing site is one that retains a *coherent* appearance as a farmstead or whatever its original function once was. Most of the structures on the property were observed to be in good or fair condition, although a few of the structures might be considered to be in poor condition. Non-contributing sites are listed as such because they lack integrity, such as potentially significant structures that have been significantly altered or were observed to be in poor condition. Abandoned farmsteads are also generally listed as non-contributing.

### ***Will County Land Use Department Planning Documents***

In April 2002, Will County adopted a new *Land Resource Management Plan*. The plan addresses the importance of Will County Landmarks and National Register designated properties and sites through preservation planning. The new document is also very realistic, recognizing that growth likely will occur and, if not regulated properly, could have a detrimental impact on the character of the county's rural areas. The *Land Resource Management Plan* focuses primarily on land use and development forms, but advocates that the preservation of rural areas should include the preservation of those elements significant to agricultural production and the agricultural landscape, such as rural structures. Therefore, the *Land Resource Management Plan* supports the goals for the preservation of rural structures.

The new *Land Resource Management Plan* also includes discussion of different forms of development in rural areas, both historically and at present. This includes preserving the character of hamlets and other small rural crossroad settlements. Contemporary development trends include Conservation Design Subdivisions, which rearrange the typical layout of streets and housing lots, setting aside a substantial amount of land as permanent open space. Conventional Suburban Residential subdivisions typically consume the entire development parcel. Historic structures and landscapes are specifically recognized in the *Land Resource Management Plan* as meriting protection when developing a Conservation Design Subdivision.<sup>170</sup>

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<sup>169</sup> John H. Myers, with revisions by Gary L. Hume, *Preservation Brief No. 8, Aluminum and Vinyl Siding on Historic Buildings: The Appropriateness of Substitute Materials for Resurfacing Historic Wood Frame Buildings* (October 1984).

<sup>170</sup> To view the *Land Resource Management Plan* in its entirety, please visit <http://www.willcountylanduse.com/>

A detailed review of the new *Land Resource Management Plan*, and its application to the rural survey area, is beyond the scope of this report. However, the information provided in this new document should be considered in the development of protection measures for the rural heritage areas and sites discussed below.

### **Potential Historic Districts, Thematic Designations, and Landmarks**

Two potential historic districts have been identified as part of this survey. Further investigation would be needed before final boundaries for these districts could be determined; however, conceptual boundaries are shown on the maps in Appendix C.

#### ***Manhattan–Green Garden Rural Heritage District***

One potential historic district could encompass the eastern and southern portions of Manhattan Township as well as the western and southern portions of Green Garden Township (surveyed in 2003–2004). Possibly, the district could be extended southward into Wilton and Peotone Townships (not yet surveyed). This area includes a high proportion of active farmsteads. The development of Manhattan and Green Garden Townships was very similar historically, and many extended families settled on farmsteads in both townships. This district would preserve open space and prime agricultural lands in an area between major axes of suburban development: on the west, the southward expansion of Joliet along the U.S. Route 52 corridor; and on the east, new suburban development along the Interstate 57 corridor.

#### ***Midewin Buffer District***

Another potential historic district that would encompass a portion of Manhattan Township would be a Midewin National Tallgrass Prairie Buffer District. Because most of the national prairie (the former Joliet Army Ammunition Plant) is located farther west, further consideration of the extent of this proposed buffer district must await surveys of Jackson and Florence Townships. However, a portion of the national prairie is in Section 31 of Manhattan Township. The proposed buffer district would include portions of Sections 29, 30, 31, and 32 in Manhattan Township. The intent is to provide a transitional area around the restored tallgrass prairie, where agricultural uses could continue to exist. Contemporary suburban development adjacent to the restored natural areas would therefore be avoided.

#### ***Individual Landmarks***

Although the two proposed districts described above include many of the locally distinctive farmstead sites in Manhattan Township, other detached sites are difficult to include in a district and should be considered for individual landmark status. Throughout the township, there are a number of individual sites that have clear potential for local landmark status. These notable farmsteads are discussed individually in the following section. Some of these sites may also have the potential for National Register nomination after additional research. It is clear from the limited research performed for this survey that the sites listed below would likely be considered eligible for listing on the National Register of Historic Places. This does not mean that other sites are not eligible, merely that further study is required before a determination of eligibility could be made.

National Register eligible properties include:

- Site 158 – PIN 12-06-200-006 Lawler Farmstead
- Site 194 – PIN 12-08-100-006 Baker Farmstead<sup>171</sup>
- Site 198 – PIN 12-18-100-002 Baskerville Farmstead
- Site 260 – PIN 12-21-200-004 Cockle Farmstead
- Site 231 – PIN 12-29-100-002 Seltzer–Godwin Farmstead

Will County eligible properties include all of the National Register eligible properties listed above, as well as the following:

- Site 167 – PIN 12-02-300-003 Paton–Faller Farmstead
- Site 312 – PIN 12-02-300-003 Paton School<sup>172</sup>
- Site 164 – PIN 12-03-200-009 Schoop Farmstead
- Site 163 – PIN 12-03-300-007 Olney–Kestel Farmstead
- Site 162 – PIN 12-04-400-006 Bergan Farmstead
- Site 185 – PIN 12-09-200-008 James Jones Farmstead
- Site 188 – PIN 12-10-100-002 Joseph Boylan Farmstead
- Site 169 – PIN 12-11-100-001 Greenwood Tenant Farm
- Site 182 – PIN 12-11-300-006 Stauffenberg Farmstead
- Site 178 – PIN 12-12-100-003 Woodcock–Morrison Farmstead
- Site 222 – PIN 12-13-300-007 Tucker–Baker Farmstead
- Site 226 – PIN 12-17-100-001
- Site 227 – PIN 12-19-300-009 Keller–Lichtenwalter Farmstead
- Site 239 – PIN 12-20-103-005 Kohler Farmstead
- Site 263 – PIN 12-22-400-005 David Rudd Farmstead
- Site 277 – PIN 12-24-300-003 Bettenhausen Tenant Farm
- Site 278 – PIN 12-25-200-004 John A. Bettenhausen Farmstead
- Site 281 – PIN 12-25-300-001 Miller [Mueller] Farmstead
- Site 280 – PIN 12-25-400-002 Geuther Farmstead
- Site 259 – PIN 12-28-200-006 Gallagher Farmstead
- Site 233 – PIN 12-29-300-001 Jaynes–Baskerville Farmstead
- Site 228 – PIN 12-30-100-006 David McClure Farmstead
- Site 235 – PIN 12-32-100-005 Barr Farmstead
- Site 246 – PIN 12-32-200-008 Barr–Rauworth Farmstead
- Site 248 – PIN 12-32-400-006 Glade Farmstead
- Site 249 – PIN 12-33-300-005 Alfred Glade House
- Site 252 – PIN 12-34-100-003 Fell–Hiller Farmstead
- Site 285 – PIN 12-35-400-001 Krapf Farmstead
- Site 287 – PIN 12-36-100-003 Barten Farmstead

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<sup>171</sup> The John C. Baker barn was listed as a Will County landmark in 1999.

<sup>172</sup> The Paton School was listed as a Will County landmark in 2005.

## Survey Summary

The survey of Manhattan Township documented more than 700 structures, including 116 houses and 66 main barns, on 120 sites. The previous survey of Green Garden Township documented over 850 structures on 149 sites. Cumulatively since 1999, the Will County Rural Historic Structural Survey has documented over 3,400 structures on more than 775 sites.<sup>173</sup> The tables below provide a statistical breakdown of the survey results for Manhattan Township, with Green Garden Township provided for comparison. The approximate cumulative totals since 1999 are also provided. For house and barn types that are common in the survey area, a percentage is given. This represents the fraction of buildings in that township that are of the type indicated. No percentage is given for uncommon types, as this would not be meaningful statistically. These percentages are useful for comparing the relative preponderance of a particular building type in different townships.

### Farmhouses

House Type	Manhattan	Percent	Green Garden	Percent	Totals
I House	1	–	3	–	26
Hall and Parlor	0	–	0	–	20
New England 1-1/2	0	–	1	–	7
Four over Four	8	7 %	11	9 %	70
Side Hallway	0	–	2	–	7
Upright and Wing	16	14 %	40	32 %	143
Gabled Ell	34	30 %	32	26 %	130
Gable Front	4	3 %	3	–	43
Foursquare	19	17 %	23	18 %	73
Bungalow	6	5 %	3	–	29
Cape Cod	1	–	5	4 %	23
Other	27	–	11	–	81
<b>Totals</b>	<b>116</b>		<b>135</b>		<b>656</b>

### Barns

Barn Type	Manhattan	Percent	Green Garden	Percent	Totals
Three-bay Threshing	33	50 %	44	49 %	152
Bank	1	–	3	–	10
Raised	0	–	0	–	6
Pennsylvania German	0	–	0	–	9
Three-ended	1	–	2	–	8
Plank frame	13	20 %	18	20 %	87
Feeder	5	8 %	3	–	18
Dairy	11	17 %	14	16 %	57
Round roof	0	–	1	–	3
Round	2	–	0	–	2
Other or Unclassified	0	–	1	–	14
<b>Totals</b>	<b>66</b>		<b>86</b>		<b>366</b>

<sup>173</sup> It should be noted that the rapid suburbanization of Will County means that some of these structures have already disappeared. For example, the 1999–2000 survey documented sites in Plainfield and Wheatland Townships. During an updated survey by WJE for the Village of Plainfield of the village’s planning area in 2005–2006, it was found that 35 of 112 farmstead sites existing in 1999 had been demolished within the intervening six years.

### Outbuildings

Building Type	Manhattan	Green Garden	Totals
Animal shed or shelter	10	22	76
Barn (secondary)	5	4	24
Cellar	1	0	3
Chicken coop	18	24	100
Corn crib	0	4	13
Crib barn	54	83	307
Foundation	14	21	64
Garage	37	72	226
Horse stable	1	0	5
Hog house	1	2	12
Implement shed	6	31	181
Machine shed	29	11	44
Mesh bin	3	7	37
Metal bin	137	94	324
Milk house	11	29	86
Pole barn / Manufactured building	87	90	238
Privy	1	2	7
Pump house / Well house	14	3	58
Shed	67	65	251
Silo	24	49	204
Smoke house	2	5	21
Summer kitchen	6	3	19
Windmill	5	3	36
Other	22	17	76
<b>Totals</b>	<b>555</b>	<b>641</b>	<b>2,412</b>
<b>Total, including houses and barns</b>	<b>737</b>	<b>862</b>	<b>3,434</b>

#### *Comparison to 1988 Survey Results*

As part of the data compilation, a limited comparison was made between the results of the 1988 reconnaissance survey of Will County and the existing conditions in Manhattan Township in 2005–2006. The 1988 survey, conducted by Michael A. Lambert in August–October 1988, was a reconnaissance-level survey performed from the public right-of-way. As of the 1988 survey of Manhattan Township, 135 farmstead sites existed, containing at least 800 structures.<sup>174</sup>

Among the 1988 farmstead sites, no historic structures survive at 15 sites. A few farmsteads have been lost to suburban development (but relatively few in comparison to previously surveyed townships). Other properties are still actively farmed, but the consolidation of farms into larger operations rendered houses and barns surplus. Alternatively, the farmstead site may remain active, but with all historic structures replaced with contemporary buildings.

In addition, at 30 sites including in the present survey, contributing historic structures have been lost since 1988. This includes the loss of the original house or historic outbuildings such as barns or crib barns. This must be considered an underestimate of the loss of historic structures since 1988, since this determination could be made only when the 1988 survey photograph clearly shows a historic building that no longer

<sup>174</sup> Included in this total are a very small number of sites that were not documented during the 1988 survey, but which are included in the present survey and therefore obviously existed at that time.

exists. The loss of historic structures on a property often seems to be related to the end of active farming and a change to residential use of the property.

The following series of tables list farmsteads and sites included in the survey and their potential for landmark designation; farmhouses, with type; barns, with type; and all other support buildings. The tables cover only Manhattan Township. The ID numbers listed on the tables correlate to the maps included in Appendix C.



*This circa 1950 aerial photograph of Joseph and Clementine Barthelme's farm in the southwest quarter of Section 2 of Manhattan Township illustrates the loss of historic farmsteads over time. In 1950, this farm included a Gabled Ell house, a crib barn, a gambrel roof main barn, and at least four smaller outbuildings. By the 1988 survey, the farmstead had been abandoned, and all structures except the crib barn and main barn had been demolished. (See 1989 site number 2-01.) By 2005, these two structures had also been demolished, all of the trees had been removed, and the former farmstead site was planted as part of the surrounding fields. Photograph provided by the Barthelme's granddaughter and Will County HPC member Denise Issert.*



*Aerial composite photograph of Manhattan Township, 1999.*

## Notable Farmsteads in Manhattan Township

### *Schoop Farmstead*

*Site 164 – PIN 12-03-200-009*

The 1873 atlas lists Henry Schoop as the owner of this site.<sup>175</sup> The farm later passed to his descendants, remaining in the Schoop family into the 1970s.

The Upright and Wing type house at this farmstead has some interesting decorative details, including wood brackets at the eave of the roof. There are also well-preserved twentieth century outbuildings.



*Above left: The Upright and Wing farmhouse retains some original decorative details, such as the brackets at the eaves. Above right: The early twentieth century threshing barn on the site. Below left: Among the outbuildings on the site is a quonset shed. Below right: A circa 1955 aerial photograph of the farmstead from John Drury, This is Will County, Illinois.*



<sup>175</sup> Also LeBaron (1878), 973.

***Olney-Kestel Farmstead***

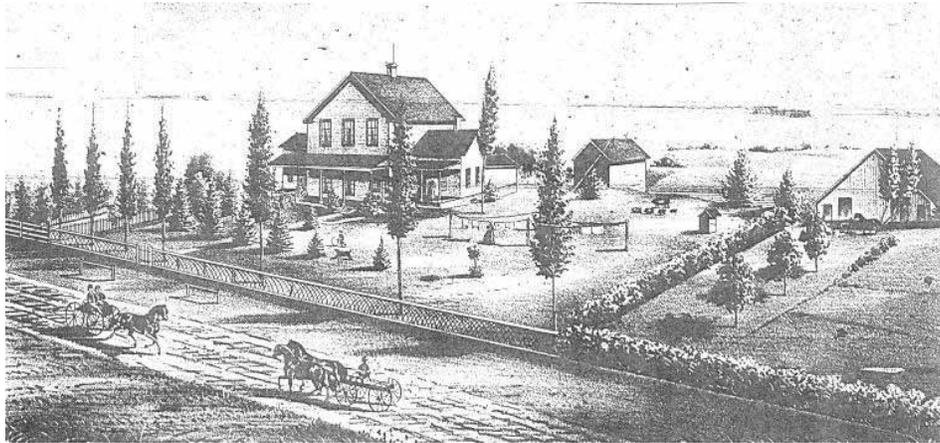
***Site 163 – PIN 12-03-300-007***

Hiram Olney was born in New York in the year 1800. He and his wife Harriet came to Will County in 1835 and settled in Homer Township; they moved to Manhattan in 1854. Olney served Manhattan Township in various positions, including Justice of the Peace and Town Clerk, Road Commissioner, Assessor, and Trustee.<sup>176</sup> Following his death, the farmstead passed to his son, William H. Olney.

The 1850s house built by Olney on his farm in Section 3, along with two outbuildings, was illustrated in the 1873 atlas of Will County. Originally, the house had a Gable Front form, with identical one story wings on either side.

This farmstead has been the home of the Kestel family since circa 1890. Current plat maps list the owner as the Patricia A. Kestel trust. All of the existing outbuildings on the property were built for the Kestel family.

As seen in the mid-1950s aerial photograph, the house had assumed its present 2-story Gabled Ell form by that time. Although greatly remodeled, it is clear that this is the original 1850s house. From the aerial photograph, it appears that the 1850s barn still existed in the 1950s at the back of the farmstead, but this building was subsequently demolished.



*Above: A view of the Olney farmstead published in the 1873 atlas of Will County. In addition to the house, note the barn at the right edge of the illustration. Below left: A mid-1950s aerial photograph of the farmstead. The house had already been altered by the addition of a second floor to one of the wings. The original barn is apparently the front gable outbuilding at the right side of the photograph. Below right: A view of the Olney house today.*



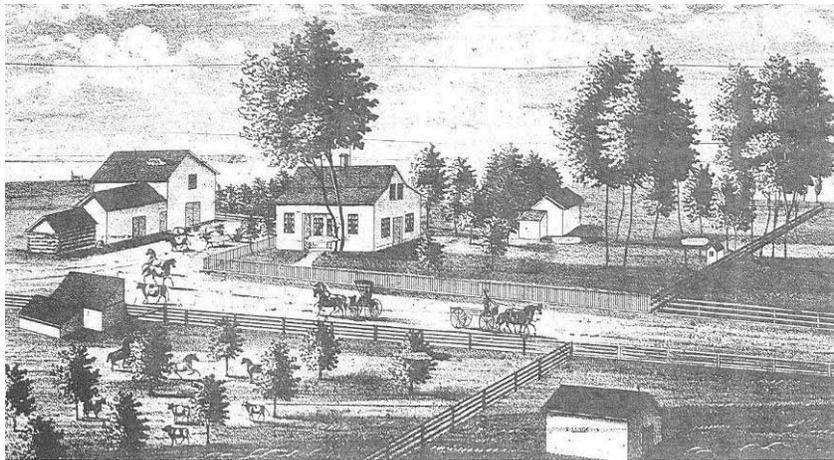
<sup>176</sup> LeBaron (1878), 800.

**Bergan farm**

**Site 162 – PIN 12-04-400-006**

Martin Bergan was one of the early pioneers of Manhattan Township. He settled here in 1848 after emigrating from Ireland with his wife and children. At the time of the 1850 census, he and his wife Esther had five children.<sup>177</sup> When Trenton Township was organized in 1850, Bergan became one of two constables. He later served as school treasurer for Manhattan Township for many years. He retired from active work around 1880 and died in 1892.<sup>178</sup> In the latter part of the nineteenth century, the farm was operated by Bergan’s sons Michael, John, and Daniel. From about the mid-1880s, they specialized in importing, breeding, and trading horses, ponies, sheep, and hogs. Their brother Martin operated a livery stable in Manhattan village.<sup>179</sup> The farmstead was owned by Bergan descendants into the 1970s.

The Bergan farmstead was illustrated in the 1873 atlas of Will County. The original 1850s settlement house shown in the illustration was a simple one story building; this house was replaced in the twentieth century by the bungalow-type house now existing on the site. Also visible at the left side of the illustration is a small barn with a side wing. This circa 1850s barn still exists, although it has deteriorated and the side wing has been removed.



Above: The view of the Bergan farm published in the 1873 atlas. In particular, note the barn with side wing at the left side of the illustration. Below left: The bungalow type house on the farm today. Below right: The circa 1850s barn today. The ghosted outline of the original perpendicular wing is visible on the left side, along with a small remnant of the intersecting gable roof.



<sup>177</sup> *Memories With Progress* (1986), Chapter II. In 1850, Martin Bergan was 45 years old, Esther was 30, and their children were Michael (10), Mary (8), John (6), Nicholas (3), and William (3 months). All were born in Ireland except William, who was born in Illinois. Daniel and Martin (Jr.) are presumably younger brothers born after 1850.

<sup>178</sup> Stevens (1907), 99.

<sup>179</sup> *Portrait and Biographical Album of Will County, Illinois* (Chicago: Chapman Bros., 1890), 268–269.

**Lawler Farm**

**Site 158 – PIN 12-06-200-006**

The 1873 atlas lists Michael Lawler as the owner of this farmstead.<sup>180</sup> The farm later passed to his son Dennis, and remained in the Lawler family until at least the 1920s. As seen in the aerial photograph of the farmstead, it is essentially unchanged since the mid-1950s.

Unusually, although the road is to the north of the buildings, the “front” of the house faces east. Particularly notable at this farmstead is the large combined barn. At the east end is a large crib barn with elevator, and the western two-thirds consist of a Dairy Barn. This structure was likely built in first decades of the twentieth century. Due to the unique character and high integrity of this barn, the Lawler farm is considered potentially eligible for the National Register of Historic Places.



*Above: A circa 1955 aerial photograph of the farmstead; all of the structures visible in this view still exist today. Below left: The Queen Anne style house on the site; unusually, the architectural front of the house faces east, although the road is to the north. Below right: The unusual combination dairy barn and crib barn on the site.*



<sup>180</sup> Also LeBaron (1878), 973.

***Baker–Koren Farmstead******Site 194 – PIN 12-08-100-006***

Clark Baker was born in New York in 1796. He was one of the pioneer settlers of Manhattan Township, arriving in 1850 with his wife Lucina and children Mary (later the wife of J.B. Russell) and John. Clark Baker served as Justice of the Peace for Manhattan Township for 25 years and Supervisor for ten years.<sup>181</sup> The Baker family owned more than 1000 acres in Manhattan Township, including all of Section 8 and portions of Sections 5, 6, 7 and 18, as shown on the 1873 atlas. This site was the Baker family’s primary residence. Following Clark’s death in 1892, his son John C. Baker inherited much of the property.<sup>182</sup> Most of the existing buildings on the farmstead (except for the numerous concrete stave and Harvestore silos) were built for John C. Baker in the late nineteenth and early twentieth centuries. This includes the large polygonal barn, which was constructed in the 1890s, reportedly from lumber salvaged from the 1893 World Columbian Exposition in Chicago.<sup>183</sup> The barn was designated as a Will County Landmark in 1999.<sup>184</sup> Due to its associations with a prominent pioneering family and the distinctiveness of the very early example of the Round Barn type, the Baker Farmstead is considered eligible for listing on the National Register of Historic Places.

From the late 1920s to the early 1950s, the farm was owned by Dr. Arthur Lee Shreffler of Joliet. His grandfather Samuel Shreffler, an early resident of Joliet in the 1840s, operated the brick yard and owned a hotel. Arthur grew up in Joliet, graduating from high school in 1904. He then studied medicine at the University of Wisconsin before earning his M.D. from Northwestern 1911. He had an extensive medical practice in Joliet and at Wesley Memorial Hospital in Chicago.<sup>185</sup> In 1928, Shreffler’s farm was noted as having the “best Guernsey herd in Will County.”<sup>186</sup>

From the mid-1950s to the 2000s, this farm was owned by the Koren family. Frank Koren was key to the preservation of the landmark round barn. The property has subsequently been purchased by the Manhattan Park District.



*Left: The John C. Baker barn is a Will County landmark. Right: One of many smaller outbuildings on the site.*

<sup>181</sup> LeBaron (1878), 799–800.

<sup>182</sup> *Genealogical and Biographical Record* (1900), 439–440.

<sup>183</sup> Will County Land Use Department website.

<sup>184</sup> Will County Historic Preservation Commission Landmark Nomination Form–Staff Analysis, case number HPC-010, 2 July 1999.

<sup>185</sup> Maue (1928), 625–626.

<sup>186</sup> *Ibid.*, 299.

***James Jones Estate***

***Section 9: Sites 185, 189, and 190***

James Jones was born in New York City in 1820. His father Robert Jones had acquired large tracts of land in Illinois during the 1820s and 1830s. In 1848, his father gave him Section 9 of Manhattan Township. When first arriving in Illinois, Jones resided in New Lenox Township with an uncle, but in 1855 he moved to a large brick house in the northeast quarter of Section 9. Jones proved a poor farmer, so he rented out Section 9 as four quarter-section tenant farms. Jones died around 1882.<sup>187</sup> After his death, the large estate was managed by his housekeeper Jane Chadwick, a native of Manchester, England, who had settled in Will County in 1858.<sup>188</sup> Much of Section 9 was owned by Jones relatives into the twentieth century, although the property was always rented to other farmers. In the late 1990s, Section 9 was annexed to the village of Manhattan.



*Above left: A barn, crib barn, and various outbuildings survive at the original site of the Jones estate. The 1855 brick residence is partially obscured by trees in the 1955 aerial photograph; the Jones house was demolished prior to the 1988 survey.*

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<sup>187</sup> *Portrait and Biographical Album* (1890), 766–767.

<sup>188</sup> *Ibid.*, 377–378. It was highly unusual in the late nineteenth century for a woman to have control over such a large business enterprise; the arrangement was specified by Jones in his will in recognition of Chadwick's assistance in his management of the farm.

***Boylan Farmsteads***

***Sites 188 and 170 – PIN 12-10-100-002 and 12-10-200-004***

John Boylan had established this farmstead by the 1870s. His original house survives. Although greatly remodeled, the original architectural detailing is shown by the attic window. The 1870s threshing barn also survives on the site.

By the early twentieth century, Boylan's holdings had expanded to include the entire north half of Section 10. Around 1910, the second farmstead (Site 188) was developed by John's son, Joseph Boylan.<sup>189</sup> This farmstead includes a concrete block farmhouse and a well-preserved gambrel roof barn.

By the 1940s, both farmsteads had passed to other owners.



*Above: Site 170, showing the house with Gothic Revival style attic window and threshing barn with adjacent silo.*

*Below: Site 188, showing the concrete block house and gambrel-roof barn constructed in the early twentieth century.*



<sup>189</sup> *Memories with Progress* (1986).

***Greenwood Farmsteads***

***Sites 169 and 179 – PIN 12-11-100-001 and 12-12-300-002***

Aaron Greenwood was born in 1835 in Herefordshire, England. He immigrated to the United States with his parents in 1847, and they settled with his older brother John near Joliet. Three years after his marriage in 1861, Aaron Greenwood purchased a farmstead in Section 12 of Manhattan Township. Later, he purchased a farm in Section 11. The farm in Section 12 was inherited by his daughter, Alice, who married Edwin Cole. The farm in Section 11 went to his adopted son, Robert Greenwood.<sup>190</sup> As late as the 2000 plat map, Greenwood descendants are indicated as the owners for the farm in Section 11.



*Above Site 169 in Section 11, showing the Queen Anne style Gabled Ell house and barn.*

*Below: Site 179 in Section 12, showing the house and crib barn, the only surviving historic structures on this site.*



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<sup>190</sup> Stevens (1907), 617–618.

**Woodcock Farmstead**

**Site 178 – PIN 12-12-100-003**

This farmstead was established by the 1870s by Gedden Woodcock.<sup>191</sup> Plat maps show that it remained in the Woodcock family into the 1920s. This farmstead retains its original house and several nineteenth century outbuildings.



*Above left: A 1955 aerial view of the farmstead. The large threshing barn at the back of the site was struck by lightning in 2005 and has nearly collapsed. Below left: The farmhouse on the site. Right: One of several historic outbuildings on the site.*

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<sup>191</sup> Also LeBaron (1878), 973.

***Baskerville Farmstead***

***Site 198 – PIN 12-18-100-002***

A.J. Baskerville is listed as the owner on the circa 1942 plat map. He is likely related to the Baskerville family, prominent farmers in Wesley and Florence Townships.<sup>192</sup>

The existing buildings on the farmstead all date to circa 1940, including the Dairy barn, crib barn, and Georgian Revival style house.<sup>193</sup> Due to its well-preserved collection of buildings from one period of agricultural development, the Baskerville farmstead is likely eligible for listing on the National Register.



*Left: The crib barn. Right: The dairy barn. Both of these outbuildings were constructed circa 1940 when this farmstead was first developed.*

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<sup>192</sup> Maue (1928), 770–771.

<sup>193</sup> No buildings existed on this site at the time of the 1939 aerial photography of Manhattan Township.

***Keller–Lichtenwalter Farmstead***

***Site 227 – PIN 12-19-300-009***

Christian Keller owned this farmstead by the 1862 atlas. Probably, the Upright and Wing type house on the farm was built by Keller. By the 1880s, the property was owned as a rental farm by Henry H. Lichtenwalter, a native of Ohio who came to Will County in 1860 and resided in Section 1 of Jackson Township. By the 1890s, the farm was the residence of Henry’s son Orlando.<sup>194</sup> Lichtenwalter descendants owned the farmstead into the 2000s.

Of interest on this farmstead is the limestone and wood tank house. This is the only structure of this type that is known to exist in Manhattan Township.



*Above left: The Upright and Wing farmhouse on the site. Above right: The chicken coop. Below left: This tank house with a limestone foundation is a very rare example of this type of structure. Below right: The crib barn.*



<sup>194</sup> *Portrait and Biographical Album* (1890), 538–539; *Genealogical and Biographical Record* (1900), 164–165.

***Kohler Farmstead***

***Site 239 – PIN 12-20-103-005***

This farmstead was established in the early 1900s by Louis Kohler. In the nineteenth century, the land was part of the extensive holdings of William Bard and the Baker family. The Kohler farmstead has a well-preserved brick American Foursquare type house, and a crib barn.



*Left: The large brick farmhouse on the site, a rare historic example of masonry construction in Manhattan Township. Right: The crib barn, one of the few surviving historic outbuildings on this site.*

**Cockle Farmstead**

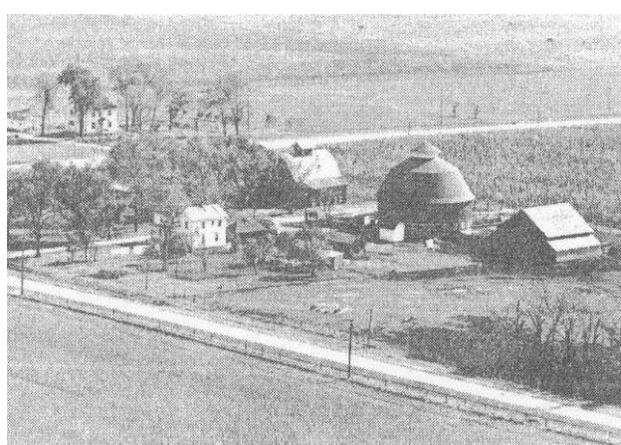
**Site 260 – PIN 12-21-200-004**

Daniel Cockle married Sarah Uttermare, and they acquired this farm in the 1880s. The farm remained in the Cockle family into the 1970s.

The Cockle farmstead has a very well-preserved round barn, one of only two examples in Manhattan Township. As seen in the mid-1950s aerial photograph, the original roof profile of the cupola was conical; this has been replaced by a silo-type domed roof. Also on the site is a former one-room schoolhouse. The schoolhouse was originally located on the north side of Manhattan-Monee Road at the southeast corner of Section 16, but was moved onto the farmstead for use as an outbuilding. Due to the presence of a rare example of the round barn type, as well as one of only two surviving one-room schoolhouses in the township, the Cockle farmstead is considered eligible for listing on the National Register.<sup>195</sup>



*Above left: The Gabled Ell farmhouse on the site. Above right: The round barn on the site, one of two round barns in Manhattan Township. Below left: Also on the site is this former one-room schoolhouse, one of two surviving in Manhattan Township. Below right: 1955 aerial view of the farmstead. Note the original conical roof at the center of the barn; this has been replaced by a silo-type dome roof.*



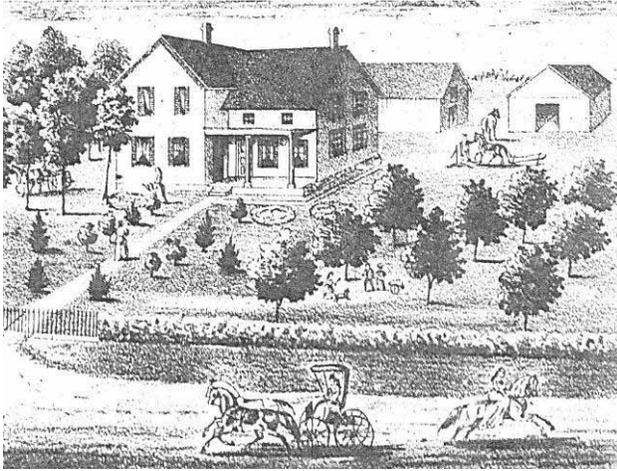
<sup>195</sup> Both the round barn and the former schoolhouse on this property were nominated as Will County landmarks in 1999. See Will County Historic Preservation Commission Landmark Nomination Form–Staff Analysis, case number HPC-012 dated 9 July 1999 (schoolhouse) and case number HPC-014 dated 28 July 1999 (barn). The landmark designations were subsequently denied.

**David Rudd House**

**Site 263 – PIN 12-22-400-005**

The 1850 census lists Vincent Rudd, who was born in Vermont, and his son Erastus as residing in Manhattan Township. Vincent Rudd was one of the first commissioners of highways when Trenton Township was organized in 1850.<sup>196</sup> The existing house at this site is illustrated in the 1873 atlas of Will County with David Rudd listed as the owner. After several changes of ownership, the farmstead was owned by George McPartlin by 1918. All of the outbuildings on the farm were constructed by the McPartlin family or subsequent owners.

Although altered, the original Upright and Wing form of the house is still apparent. Also of interest on this farmstead are two metal grain bins. These two grain bins are rare surviving examples of the types of grain bins that were manufactured in the 1930s and 1940s.



*Above left: View of the farmstead in the 1873 atlas. Above right: The David Rudd house today. Below left: An early style of sheet metal grain bin. Below right: An uncommon style of grain bin with a domical roof.*



<sup>196</sup> *Memories with Progress* (1986), Chapter II.

***Bettenhausen Farmsteads***

***Sites 277 and 278 – PIN 12-24-300-003 and 12-25-200-004***

The farmstead in Section 25 (Site 278) was acquired by John A. Bettenhausen family around 1882. He later acquired the second farmstead in Section 24 (Site 277). The Bettenhausen family were also prominent farmers in adjacent Green Garden Township. By the 1940s, both farms had passed to Bettenhausen descendants. The farm in Section 24 remained in the Bettenhausen family into the 1990s. The farm in Section 25 is still owned by Bettenhausen descendants today.

Both farmsteads have similar Upright and Wing type houses; both were probably built in the 1880s after Bettenhausen acquired the property.



*Above: Site 277 in Section 24, with an Upright and Wing farmhouse and crib barn.*

*Below: Site 278 in Section 25, with an almost identical Upright and Wing farmhouse and an 1880s threshing barn.*



***Seltzer–Godwin Farmstead***

***Site 231 – PIN 12-29-100-002***

This farmstead has been owned by the Seltzer–Godwin family since at least 1888; H.W. Seltzer is listed as the owner of this property in the 1888 county directory. The Seltzer farmstead retains numerous historic agricultural outbuildings. Of interest is the crib barn; it appears that a small nineteenth century crib barn was expanded in the early twentieth century by the addition of a taller gable roof and elevator.



*Above left: The unusual crib barn on the site was expanded with a lateral addition and higher gable roof sometime after its initial construction. Above right: The main barn on the site.*

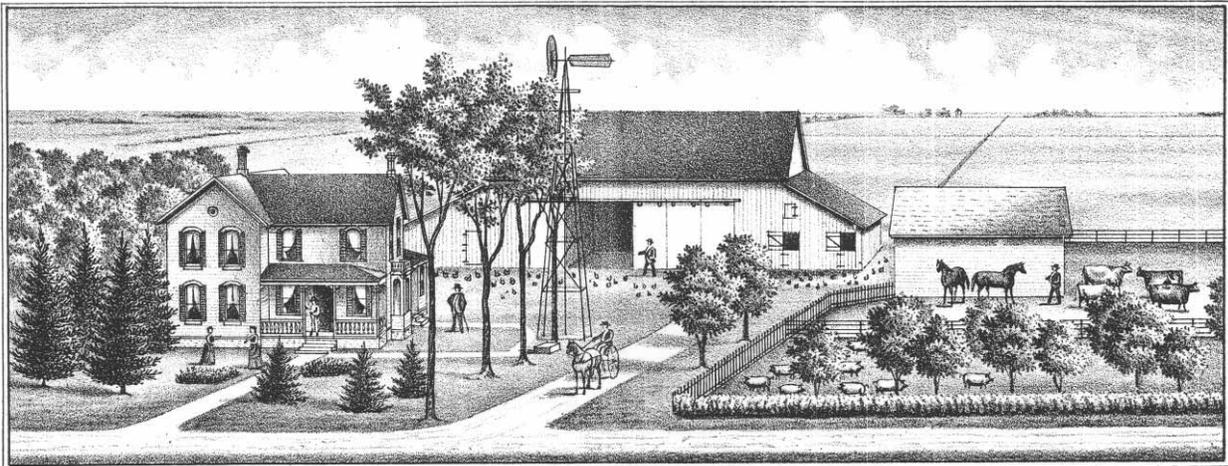
**Jaynes–Baskerville farmstead**

**Site 233 – PIN 12-29-300-001**

This farmstead was purchased in 1868 by Civil War veteran Ezra E. Jaynes. Jaynes had served in Company F of the 1st Wisconsin Infantry and was severely wounded in fighting along the Red River in 1863. When he purchased the farm, the land was untouched prairie. In spite of physical disabilities resulting from his war injuries, he was able to successfully develop and farm this site.<sup>197</sup> The existing Gabled Ell farmhouse and Three-bay Threshing barn were built for Jaynes, likely in the 1870s. The farm was acquired by B.J. Baskerville in the late 1800s, and has been owned by the Baskerville descendants to the present day.



Above left: The Gabled Ell farmhouse. Above right: The Three-bay Threshing barn on the site. The shed roof side wings are original. Below: View of the farmstead published in the Portrait and Biographical Album (1890). Both the house and barn are clearly recognizable in this historic view.



RESIDENCE OF EZRA E. JAYNES, SEC. 29. MANHATTAN TWP. WILL CO. ILL.

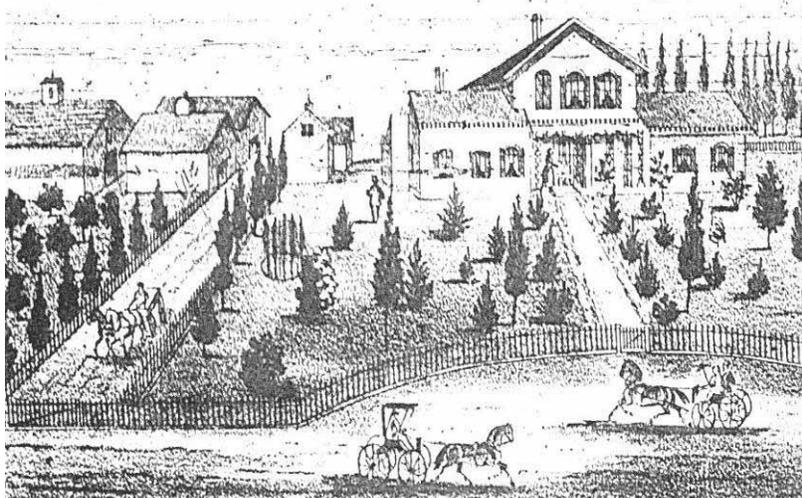
<sup>197</sup> *Portrait and Biographical Album* (1890), 453–455.

**McClure Farmsteads**

**Site 228 – PIN 12-30-100-006 and Site 230 – PIN 12-19-400-001**

David McClure of Vermont came to Will County in 1854, and after settling farms in Wilmington and Green Garden Townships, established a farm in Section 30 of Manhattan Township in 1865. Although his residence was on the 80-acre parcel in Manhattan Township, the farm included an adjoining 160 acres in Section 25 of Jackson Township. David retired in 1880 and lived in Manhattan village until his death in 1885. David's son Cornelius operated the farm after 1880. Cornelius also acquired 160 acres in the southeast quarter of Section 19 through marriage to Miss Emily Morgan. The McClures resided at that farmstead after 1875.

The farm in Section 30 passed to Cornelius and Emily's son Mark McClure by 1920. It remained his home until his death in the 1960s. The farm in Section 19 passed to their son Wayne McClure by 1940, and later their grandson David C. McClure, who still owns the property today. Although the existing houses on the Section 30 farm are contemporary, the farmstead retains two original outbuildings, one of which is a small bank barn with a limestone foundation, sited on a bluff overlooking Prairie Creek. The original house, now demolished, was a gable front type with symmetrical one-story side wings. The farm in Section 19 includes the Gabled Ell farmhouse built by Cornelius and Emily in the late 1870s, as well as numerous contemporary outbuildings.<sup>198</sup>



*Above: The view of the David McClure farmstead in Section 30 published in the 1873 atlas. Below left: A view of the outbuildings on this farm from the northeast, with the bank barn in the foreground. Below right: A view of the outbuildings from the southwest; the second outbuilding visible in the foreground here was constructed after 1873.*



<sup>198</sup> Photograph not included per owner's request.

***Barr Farmstead***

***Site 235 – PIN 12-32-100-005***

This farm was owned by William F. Barr by 1888. His son, Sam Barr, apparently built the existing American Foursquare style house on the site, as well as many of the outbuildings. William F. and Sam Barr are apparently relatives of Richard J. Barr, who was born in Manhattan Township and served two terms as mayor of Joliet in the early 1900s and as state senator for more than twenty-five years.<sup>199</sup> Other Barr relatives had farms in Manhattan and Wilton Townships. The farm remained in the Barr family into the 1990s.



*Left: The American Foursquare type farmhouse; the front porch has been expanded since the 1988 survey; note the original Craftsman style corner piers. Right: The crib barn on the site.*

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<sup>199</sup> Stevens (1907), 851; Maue (1928), 991.

*Alfred Glade House*

*Site 294 – PIN 12-33-300-005*

This farmstead has a large and well-preserved Queen Anne style house. The house was built circa 1900 by Alfred Glade. His father, August Glade, had owned an adjacent farmstead since the 1870s. Of the historic outbuildings visible in the 1955 aerial photograph, only the garage (just behind the house) still exists. There is also a contemporary manufactured building on the site.



*Left: The Alfred Glade house is a very well preserved Queen Anne style house. Elaborately detailed houses such as this are not common in the rural survey area. Right: The 1955 aerial photograph of the site shows the original outbuildings, of which only the garage remains.*

***Fell–Hiller Farmstead***

***Site 252 – PIN 12-34-100-003***

James Fell of England settled in Green Garden Township in about 1867. In the 1880s, he served as postmaster of Green Garden (after the separation of Manhattan and Green Garden into separate post offices). His sons John and Robert established adjoining farmsteads in the northwest quarter of Section 34 of Manhattan Township, probably in the late 1870s.<sup>200</sup>

This farmstead was the home of Robert Fell. (No historic buildings survive on the adjacent John Fell farmstead.) The Gabled Ell farmhouse on the site was likely built by Robert in the 1870s. Sometime in circa 1930s, the farm was acquired by Albert Hiller. It appears that many of the early twentieth century outbuildings on the site, including a large crib barn, chicken house, and small dairy barn, were constructed by Hiller.



*Above left: The crib barn on the site. Above right: The chicken coop. Below left: The relatively small dairy barn with milk house wing, and two of four concrete stave silos on the site. All of these outbuildings appear to date to the 1930s. Below right: The Gabled Ell farmhouse on the site dates to the ownership of the farm of Robert Fell.*



<sup>200</sup> *Portrait and Biographical Album* (1890), 437–438.

***Barten Farmstead***

***Site 287 – PIN 12-36-100-003***

George Barton owned this farmstead, part of the Illinois Central Railroad land grant, by the 1870s. The farm is still owned by his descendants today, although the spelling of the family name has changed to “Barten.”

The farm includes several historic outbuildings, including a crib barn and dairy barn.



*Above left: The Gabled Ell farmhouse on the site. Above right: The crib barn on the site, with elevator and conveyor. Below left: The dairy barn on the site. Below right: Aerial photograph of the farmstead, circa 1955.*



**Table 1. Surveyed Farmsteads and Related Sites**

<b>ID</b>	<b>PIN</b>	<b>Street Name</b>	<b>House Type</b>	<b>Barn Type</b>	<b>Landmark Potential</b>
171	12-01-100-001	Schoolhouse Road	Four over Four	None	Contributing
177	12-01-300-010	Schoolhouse Road	American Foursquare	Feeder	Contributing
175	12-01-400-015	Baker Road	American Foursquare	Three-ended	Contributing
173	12-01-401-016	Baker Road	Gabled Ell	Three-bay threshing	Contributing
167	12-02-300-003	Baker Road	Gabled Ell	None	Local landmark potential
312	12-02-300-003	Baker Road	Schoolhouse	None	Local landmark
165	12-03-200-008	Kankakee Road	Upright and wing	Dairy	Contributing
164	12-03-200-009	Kankakee Road	Upright and wing	Three-bay threshing	Local landmark potential
163	12-03-300-007	Baker Road	Gabled Ell	Three-bay threshing	Local landmark potential
162	12-04-400-006	Baker Road	Bungalow	Three-bay threshing	Local landmark potential
160	12-05-200-006	Eastern Avenue	Bungalow	Three-bay threshing	Contributing
159	12-05-300-006	Baker Road	Bungalow	None	Contributing
161	12-05-400-004	Baker Road	American Foursquare	None	Contributing
156	12-06-100-024	U.S. Route 52	Gabled Ell	Feeder	Contributing
155	12-06-100-027	Cherry Hill Road	Ranch	Feeder	Contributing
158	12-06-200-006	Delaney Road	Gabled Ell	Dairy	National Register potential
157	12-06-200-020	U.S. Route 52	Upright and wing	None	Contributing
176	12-06-300-005	Cherry Hill Road	Upright and wing	Three-bay threshing	Contributing
196	12-07-100-010	Baker Road	Ranch	Dairy	Non-contributing
193	12-07-400-003	U.S. Route 52	Gabled Ell	Dairy	Contributing
194	12-08-100-006	U.S. Route 52	Four over Four	Round barn	National Register potential
191	12-08-200-007	Baker Road	American Foursquare	None	Contributing
192	12-08-400-006	Smith Road	None	None	Non-contributing
190	12-09-100-005	Baker Road	Gable front	None	Contributing
189	12-09-200-006	Baker Road	None	None	Non-contributing
185	12-09-200-008	Cedar Road	None	Dairy	Local landmark potential
188	12-10-100-002	Cedar Road	American Foursquare	Plank frame	Local landmark potential
170	12-10-200-004	Baker Road	Gable front	Three-bay threshing	Contributing
186	12-10-300-014	Cedar Road	Gabled Ell	None	Contributing
184	12-10-400-011	Smith Road	American Foursquare	Feeder	Contributing

<b>ID</b>	<b>PIN</b>	<b>Street Name</b>	<b>House Type</b>	<b>Barn Type</b>	<b>Landmark Potential</b>
169	12-11-100-001	Baker Road	Gabled Ell	Three-bay threshing	Local landmark potential
182	12-11-300-006	Kankakee Road	Ranch	Three-bay threshing	Local landmark potential
181	12-11-400-001	Schoolhouse Road	Gabled Ell	None	Contributing
178	12-12-100-003	Baker Road	Gabled Ell	Three-bay threshing	Local landmark potential
180	12-12-200-004	Scheer Road	Gabled Ell	Three-bay threshing	Contributing
174	12-12-200-009	Scheer Road	Gabled Ell	Three-bay threshing	Contributing
179	12-12-300-002	Schoolhouse Road	American Foursquare	None	Contributing
221	12-13-100-010	Schoolhouse Road		None	Contributing
223	12-13-200-012	Scheer Road	Gabled Ell	Three-bay threshing	Contributing
222	12-13-300-007	Manhattan-Monee Road	American Foursquare	Three-bay threshing	Local landmark potential
224	12-13-400-002	Scheer Road	None	Plank frame	Contributing
183	12-14-100-004	Kankakee Road	Gabled Ell	Three-bay threshing	Contributing
219	12-14-200-016	Smith Road	None	None	Non-contributing
289	12-14-300-001	Kankakee Road	American Foursquare	Dairy	Contributing
217	12-14-400-014	Schoolhouse Road	Split-Level	Plank frame	Contributing
206	12-15-100-004	Cedar Road	Cape Cod	Plank frame	Contributing
215	12-15-400-005	Manhattan-Monee Road	Gabled Ell	None	Contributing
203	12-16-100-001	Eastern Avenue	Four over Four	Feeder	Contributing
204	12-16-100-004	Smith Road	Contemporary	Plank frame	Contributing
205	12-16-200-009	Cedar Road	Upright and wing	None	Contributing
212	12-16-300-001	Manhattan-Monee Road	Gabled Ell	Plank frame	Contributing
211	12-16-300-008	Manhattan-Monee Road	Upright and wing	None	Contributing
209	12-16-400-003	Cedar Road	Four over Four	Plank frame	Contributing
226	12-17-100-001	Gougar Road	Four-over-Four	None	Local landmark potential
201	12-17-100-008	Elwood-Manhattan Road	Bungalow	None	Contributing
198	12-18-100-002	Elwood-Manhattan Road	Four over Four	Plank frame	National Register potential
200	12-18-200-001	Elwood-Manhattan Road	American Foursquare	Plank frame	Contributing
197	12-18-300-005	Elwood-Manhattan Road	Gabled Ell	None	Contributing
199	12-18-400-011	Elwood-Manhattan Road	Ranch	None	Contributing
229	12-19-200-005	Gougar Road	Contemporary	Three-bay threshing	Contributing
227	12-19-300-009	Cherry Hill Road	Upright and wing	None	Local landmark potential
230	12-19-400-001	Gougar Road	Gabled Ell	None	Contributing

<b>ID</b>	<b>PIN</b>	<b>Street Name</b>	<b>House Type</b>	<b>Barn Type</b>	<b>Landmark Potential</b>
239	12-20-103-005	Brown Road	American Foursquare	None	Local landmark potential
260	12-21-200-004	Manhattan-Monee Road	Gabled Ell	Round barn	National Register potential
254	12-21-300-004	Bruns Road	Gable front	None	Contributing
257	12-21-400-002	Bruns Road	Gabled Ell	None	Non-contributing
261	12-22-100-001	Cedar Road	Four over Four	None	Non-contributing
264	12-22-200-007	Manhattan-Monee Road	Four over Four	Plank frame	Non-contributing
262	12-22-300-008	Cedar Road	Gable front	Plank frame	Contributing
263	12-22-400-005	Bruns Road	Upright and wing	None	Local landmark potential
288	12-23-100-004	Kankakee Road	None	None	Non-contributing
265	12-23-300-010	Kankakee Road	Bungalow	None	Contributing
273	12-23-400-012	Haley Road	Upright and wing	Dairy	Contributing
275	12-24-200-001	Manhattan-Monee Road	None	None	Contributing
277	12-24-300-003	Bruns Road	Upright and wing	Three-bay threshing	Local landmark potential
274	12-24-300-009	Schoolhouse Road	American Foursquare	None	Contributing
276	12-24-400-004	Scheer Road	Upright and wing	None	Contributing
278	12-25-200-004	Bruns Road	Upright and wing	Three-bay threshing	Local landmark potential
279	12-25-200-006	Scheer Road	Four over Four	None	Non-contributing
281	12-25-300-001	Schoolhouse Road	Ranch	Three-bay threshing	Local landmark potential
280	12-25-400-002	Pauling Road	Gabled Ell	Three-bay threshing	Local landmark potential
283	12-26-200-001	Bruns Road	Upright and wing	Three-bay threshing	Contributing
282	12-26-200-017	Schoolhouse Road	American Foursquare	None	Non-contributing
268	12-26-300-005	Kankakee Road	Bungalow	None	Contributing
267	12-26-300-008	Kankakee Road	American Foursquare	None	Contributing
266	12-27-200-010	Bruns Road	Ranch	None	Contributing
291	12-27-300-001	Pauling Road	None	None	Non-contributing
259	12-28-200-006	Bruns Road	American Foursquare	Three-bay threshing	Local landmark potential
258	12-28-200-011	Bruns Road	Gabled Ell	Three-bay threshing	Contributing
242	12-28-300-006	Hoff Road	Gabled Ell	Dairy	Contributing
243	12-28-300-008	U.S. Route 52	Gabled Ell	None	Contributing
244	12-28-300-011	U.S. Route 52	Ranch	None	Non-contributing
231	12-29-100-002	Gougar Road	Gabled Ell	Three-bay threshing	National Register potential
240	12-29-200-003	Bruns Road	Ranch	Plank frame	Contributing

<b>ID</b>	<b>PIN</b>	<b>Street Name</b>	<b>House Type</b>	<b>Barn Type</b>	<b>Landmark Potential</b>
233	12-29-300-001	Gougar Road	Gabled Ell	Three-bay threshing	Local landmark potential
241	12-29-400-004	Hoff Road	Ranch	None	Non-contributing
228	12-30-100-006	Cherry Hill Road	Ranch	Bank	Local landmark potential
238	12-30-300-004	Hoff Road	American Foursquare	Plank frame	Contributing
232	12-30-400-008	Gougar Road	I-house	Three-bay threshing	Contributing
234	12-31-200-003	Hoff Road	Ranch	None	Non-contributing
237	12-31-400-005	Gougar Road	Upright and wing	None	Contributing
235	12-32-100-005	Gougar Road	American Foursquare	Dairy	Local landmark potential
247	12-32-200-006	Walsh Road	Gabled Ell	None	Contributing
246	12-32-200-008	Hoff Road	Gabled Ell	Three-bay threshing	Local landmark potential
236	12-32-300-006	Gougar Road	Gabled Ell	None	Contributing
248	12-32-400-006	Walsh Road	Gabled Ell	Three-bay threshing	Local landmark potential
245	12-33-200-005	U.S. Route 52	Upright and wing	None	Contributing
249	12-33-300-005	Walsh Road	Gabled Ell	None	Local landmark potential
250	12-33-400-004	U.S. Route 52	Ranch	None	Contributing
252	12-34-100-003	Cedar Road	Gabled Ell	Dairy	Local landmark potential
253	12-34-100-007	Pauling Road	Ranch	None	Non-contributing
251	12-34-300-001	U.S. Route 52	Ranch	Three-bay threshing	Contributing
272	12-34-300-003	Offner Road	Gabled Ell	None	Contributing
271	12-34-400-004	Offner Road	Ranch	Three-bay threshing	Contributing
269	12-35-100-001	Kankakee Road	Ranch	Three-bay threshing	Contributing
284	12-35-200-003	Pauling Road	American Foursquare	None	Contributing
270	12-35-300-005	Kankakee Road	American Foursquare	Three-bay threshing	Contributing
285	12-35-400-001	Offner Road	American Foursquare	Three-bay threshing	Local landmark potential
287	12-36-100-003	Barten Road	Gabled Ell	Dairy	Local landmark potential
286	12-36-400-010	Offner Road	Upright and wing	None	Contributing

**Table 2. Farmhouses**

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
171	12-01-100-001 1917	Four over Four Contributing		<b>Foundation:</b> Concrete block <b>Walls:</b> Cement asbestos siding <b>Roof:</b> Asphalt shingle
177	12-01-300-010 1912	American Foursquare Non-contributing	Contemporary	<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
175	12-01-400-015 1902	American Foursquare Non-contributing		<b>Foundation:</b> Concrete block <b>Walls:</b> Wood shingle <b>Roof:</b> Asphalt shingle
173	12-01-401-016 1915	Gabled Ell Non-contributing		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
167	12-02-300-003 1911	Gabled Ell Contributing	Queen Anne	<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
312	12-02-300-003 1860s	Schoolhouse Local landmark		<b>Foundation:</b> Concrete/Limestone <b>Walls:</b> Wood siding <b>Roof:</b> Cement asbestos shingle
165	12-03-200-008 1880s	Upright and wing Non-contributing		<b>Foundation:</b> Limestone with concrete range/CMM <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
164	12-03-200-009 1880s	Upright and wing Local landmark potential	Italianate	<b>Foundation:</b> Limestone <b>Walls:</b> Cement asbestos siding <b>Roof:</b> Asphalt shingle
163	12-03-300-007 1850s	Gabled Ell Local landmark potential		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
162	12-04-400-006 1910s	Bungalow Contributing	Craftsman	<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
160	12-05-200-006 1925	Bungalow Contributing	Craftsman	<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
159	12-05-300-006 1920s	Bungalow Contributing		<b>Foundation:</b> Concrete block <b>Walls:</b> Wood siding <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
161	12-05-400-004 <i>1910s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
156	12-06-100-024 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Wood siding <b>Roof:</b> Asphalt shingle
155	12-06-100-027 <i>1997</i>	Ranch <i>Non-contributing</i>	Contemporary	<b>Foundation:</b> Concrete <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle
158	12-06-200-006 <i>1890s</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
157	12-06-200-020 <i>1880s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
176	12-06-300-005 <i>1870s</i>	Upright and wing <i>Non-contributing</i>	Italianate	<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
196	12-07-100-010 <i>1974</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
193	12-07-400-003 <i>1880s</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b> Limestone <b>Walls:</b> Cement asbestos siding <b>Roof:</b> Asphalt shingle
194	12-08-100-006 <i>1919</i>	Four over Four <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Cement asbestos shingle <b>Roof:</b> Asphalt shingle
191	12-08-200-007 <i>1910s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Cement asbestos shingle <b>Roof:</b> Asphalt shingle
190	12-09-100-005 <i>c. 1909</i>	Gable front <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
188	12-10-100-002 <i>1910s</i>	American Foursquare <i>Local landmark potential</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Concrete block <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
170	12-10-200-004 <i>1860s</i>	Gable front <i>Contributing</i>	Gothic Revival	<b>Foundation:</b> Limestone / concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
186	12-10-300-014 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
184	12-10-400-011 <i>1912</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
169	12-11-100-001 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
182	12-11-300-006 <i>1959</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Stone <b>Roof:</b> Asphalt shingle
181	12-11-400-001 <i>1890s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Wood siding/Asphalt shingle <b>Roof:</b> Asphalt shingle
178	12-12-100-003 <i>1905</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Wood siding/Asphalt shingle <b>Roof:</b> Asphalt shingle
180	12-12-200-004 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Wood siding <b>Roof:</b> Asphalt shingle
174	12-12-200-009 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
179	12-12-300-002 <i>1890s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
223	12-13-200-012 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
222	12-13-300-007 <i>1915</i>	American Foursquare <i>Contributing</i>	Craftsman	<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
183	12-14-100-004 <i>1870s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
289	12-14-300-001 <i>1900s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Synthetic shingle <b>Roof:</b> Cement asbestos shingle
217	12-14-400-014 <i>1970</i>	Split-Level <i>Non-contributing</i>	Contemporary	<b>Foundation:</b> Concrete <b>Walls:</b> Vinyl siding and Brick <b>Roof:</b> Asphalt shingle
206	12-15-100-004 <i>1940</i>	Cape Cod <i>Contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle
215	12-15-400-005 <i>1900s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> unknown <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
203	12-16-100-001 <i>c. 1945</i>	Four over Four <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
204	12-16-100-004 <i>1988</i>	Contemporary <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Wood siding <b>Roof:</b> Asphalt shingle
205	12-16-200-009 <i>1870s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
212	12-16-300-001 <i>1909</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
211	12-16-300-008 <i>1860s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
209	12-16-400-003 <i>1870s</i>	Four over Four <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
226	12-17-100-001 <i>1955</i>	Four-over-Four <i>Contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
201	12-17-100-008 <i>1920s</i>	Bungalow <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
198	12-18-100-002 <i>1940s</i>	Four over Four <i>Contributing</i>	Colonial Revival	<b>Foundation:</b> Brick <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle
200	12-18-200-001 <i>1917</i>	American Foursquare <i>Non-contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
197	12-18-300-005 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
199	12-18-400-011 <i>2000s</i>	Ranch <i>Non-contributing</i>	Contemporary	<b>Foundation:</b> Concrete <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle
229	12-19-200-005 <i>1991</i>	Contemporary <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Log <b>Roof:</b> Asphalt shingle
227	12-19-300-009 <i>1870s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
230	12-19-400-001 <i>1870s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
239	12-20-103-005 <i>1917</i>	American Foursquare <i>Local landmark potential</i>	Craftsman	<b>Foundation:</b> Concrete <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle
260	12-21-200-004 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Asphalt shingle <b>Roof:</b> Asphalt shingle
254	12-21-300-004 <i>1860s</i>	Gable front <i>Contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
257	12-21-400-002 <i>1870s</i>	Gabled Ell <i>Non-contributing</i>		<b>Foundation:</b> unknown <b>Walls:</b> Cement asbestos siding <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>
261	12-22-100-001 1948	Four over Four <i>Non-contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Cement asbestos siding <b>Roof:</b> Asphalt shingle
264	12-22-200-007 1990s	Four over Four <i>Non-contributing</i>	Contemporary	<b>Foundation:</b> Concrete <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
262	12-22-300-008 1905	Gable front <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
263	12-22-400-005 1870s	Upright and wing <i>Local landmark potential</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
265	12-23-300-010 1931	Bungalow <i>Contributing</i>	Craftsman	<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
273	12-23-400-012 1870s	Upright and wing <i>Contributing</i>		<b>Foundation:</b> unknown <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
277	12-24-300-003 1880s	Upright and wing <i>Local landmark potential</i>		<b>Foundation:</b> Limestone <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
274	12-24-300-009 1920	American Foursquare <i>Contributing</i>		<b>Foundation:</b> Concrete block <b>Walls:</b> Vinyl siding <b>Roof:</b> Asphalt shingle
276	12-24-400-004 1870s	Upright and wing <i>Contributing</i>		<b>Foundation:</b> unknown <b>Walls:</b> Brick / vinyl siding <b>Roof:</b> Asphalt shingle
278	12-25-200-004 1880s	Upright and wing <i>Local landmark potential</i>	Queen Anne	<b>Foundation:</b> Limestone <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
279	12-25-200-006 1880s	Four over Four <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Aluminum siding <b>Roof:</b> Asphalt shingle
281	12-25-300-001 1955	Ranch <i>Non-contributing</i>		<b>Foundation:</b> Concrete <b>Walls:</b> Brick <b>Roof:</b> Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>	
280	12-25-400-002 <i>1900s</i>	Gabled Ell <i>Local landmark potential</i>	Queen Anne	<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
283	12-26-200-001 <i>1860s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b>	Unknown
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
282	12-26-200-017 <i>1900s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b>	-
				<b>Walls:</b>	-
				<b>Roof:</b>	-
268	12-26-300-005 <i>1920</i>	Bungalow <i>Contributing</i>	Craftsman	<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
267	12-26-300-008 <i>1900s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
266	12-27-200-010 <i>1964</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Wood siding
				<b>Roof:</b>	Asphalt shingle
259	12-28-200-006 <i>1914</i>	American Foursquare <i>Local landmark potential</i>		<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Wood siding
				<b>Roof:</b>	Asphalt shingle
258	12-28-200-011 <i>1914</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Composition shingle
				<b>Roof:</b>	Cement asbestos shingle
242	12-28-300-006 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
243	12-28-300-008 <i>1902</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
244	12-28-300-011 <i>1994</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
231	12-29-100-002 <i>1870s</i>	Gabled Ell <i>National Register potential</i>	Italianate	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle

<b>ID</b>	<b>PIN Date</b>	<b>House Type Significance</b>	<b>Style</b>	<b>Materials</b>	
240	12-29-200-003 <i>1990s</i>	Ranch <i>Non-contributing</i>	Contemporary	<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Brick
				<b>Roof:</b>	Asphalt shingle
233	12-29-300-001 <i>1870s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Aluminum siding
				<b>Roof:</b>	Asphalt shingle
241	12-29-400-004 <i>1990s</i>	Ranch <i>Non-contributing</i>	Contemporary	<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Brick
				<b>Roof:</b>	Asphalt shingle
228	12-30-100-006 <i>1977</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Brick
				<b>Roof:</b>	Asphalt shingle
238	12-30-300-004 <i>1902</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Wood siding
				<b>Roof:</b>	Asphalt shingle
232	12-30-400-008 <i>1870s</i>	I-house <i>Contributing</i>	Italianate	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
234	12-31-200-003 <i>1978</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	
				<b>Walls:</b>	
				<b>Roof:</b>	
237	12-31-400-005 <i>1880s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
235	12-32-100-005 <i>1922</i>	American Foursquare <i>Local landmark potential</i>	Craftsman	<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
247	12-32-200-006 <i>1902</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b>	Concrete block
				<b>Walls:</b>	Wood siding
				<b>Roof:</b>	Asphalt shingle
246	12-32-200-008 <i>1860s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
236	12-32-300-006 <i>1880s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle

<b>ID</b>	<b>PIN</b> <i>Date</i>	<b>House Type</b> <i>Significance</i>	<b>Style</b>	<b>Materials</b>	
248	12-32-400-006 <i>1870s</i>	Gabled Ell <i>Local landmark potential</i>	Italianate	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
245	12-33-200-005 <i>1880s</i>	Upright and wing <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
249	12-33-300-005 <i>1900s</i>	Gabled Ell <i>Local landmark potential</i>	Queen Anne	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
250	12-33-400-004 <i>1996</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
252	12-34-100-003 <i>1870s</i>	Gabled Ell <i>Contributing</i>		<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
253	12-34-100-007 <i>1980</i>	Ranch <i>Non-contributing</i>	Contemporary	<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
251	12-34-300-001 <i>1949</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Stone
				<b>Roof:</b>	Asphalt shingle
272	12-34-300-003 <i>1905</i>	Gabled Ell <i>Contributing</i>	Queen Anne	<b>Foundation:</b>	Limestone
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
271	12-34-400-004 <i>1986</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Brick
				<b>Roof:</b>	Asphalt shingle
269	12-35-100-001 <i>1954</i>	Ranch <i>Non-contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Brick
				<b>Roof:</b>	Asphalt shingle
284	12-35-200-003 <i>1910s</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle
270	12-35-300-005 <i>1910</i>	American Foursquare <i>Contributing</i>		<b>Foundation:</b>	Concrete
				<b>Walls:</b>	Synthetic shingle
				<b>Roof:</b>	Asphalt shingle

<b>ID</b>	<b>PIN</b>	<b>House Type</b>	<b>Style</b>	<b>Materials</b>	
	<i>Date</i>	<i>Significance</i>			
285	12-35-400-001	American Foursquare	Craftsman	<b>Foundation:</b>	Concrete
	<i>1926</i>	<i>Local landmark potential</i>		<b>Walls:</b>	Clay block
				<b>Roof:</b>	Asphalt shingle
287	12-36-100-003	Gabled Ell		<b>Foundation:</b>	Unknown
	<i>1860s</i>	<i>Contributing</i>		<b>Walls:</b>	Aluminum siding
				<b>Roof:</b>	Asphalt shingle
286	12-36-400-010	Upright and wing	Italianate	<b>Foundation:</b>	Limestone
	<i>1860s</i>	<i>Contributing</i>		<b>Walls:</b>	Vinyl siding
				<b>Roof:</b>	Asphalt shingle

**Table 3. Barns**

<b>ID</b>	<b>PIN Date</b>	<b>Barn Type Significance</b>	<b>Materials</b>	
177	12-01-300-010 <i>1950s</i>	Feeder <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Concrete block
			<b>Roof:</b>	Asphalt shingle
175	12-01-400-015 <i>1900s</i>	Three-ended <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt Shingle
173	12-01-401-016 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
165	12-03-200-008 <i>1910s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
164	12-03-200-009 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
163	12-03-300-007 <i>1890s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
162	12-04-400-006 <i>1850s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
160	12-05-200-006 <i>1930s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
156	12-06-100-024 <i>1920s</i>	Feeder <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Sheet metal
155	12-06-100-027 <i>1930s</i>	Feeder <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
158	12-06-200-006 <i>1910s</i>	Dairy <i>National Register potential</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Wood siding
			<b>Roof:</b>	Cement asbestos shingle
176	12-06-300-005 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Asphalt shingle

<b>ID</b>	<b>PIN</b> <i>Date</i>	<b>Barn Type</b> <i>Significance</i>	<b>Materials</b>	
196	12-07-100-010 <i>1910s ?</i>	Dairy <i>Non-contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Vinyl siding
			<b>Roof:</b>	Asphalt shingle
193	12-07-400-003 <i>1910s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood siding
			<b>Roof:</b>	Asphalt shingle
194	12-08-100-006 <i>1898</i>	Round barn <i>National Register potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Wood siding
			<b>Roof:</b>	Asphalt shingle
185	12-09-200-008 <i>1920s</i>	Dairy <i>Local landmark potential</i>	<b>Foundation:</b>	unknown
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
188	12-10-100-002 <i>1910s</i>	Plank frame <i>Local landmark potential</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
170	12-10-200-004 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
184	12-10-400-011 <i>1950s</i>	Feeder <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Sheet metal
			<b>Roof:</b>	Asphalt shingle
169	12-11-100-001 <i>1880s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
182	12-11-300-006 <i>1870s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Cement asbestos shingle
178	12-12-100-003 <i>1890s</i>	Three-bay threshing <i>Non-contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Wood Shingle
180	12-12-200-004 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
174	12-12-200-009 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	unknown
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
223	12-13-200-012 <i>1880s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal

<b>ID</b>	<b>PIN</b> <i>Date</i>	<b>Barn Type</b> <i>Significance</i>	<b>Materials</b>	
222	12-13-300-007 <i>1870s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Cement asbestos shingle
224	12-13-400-002 <i>1910s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
183	12-14-100-004 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
289	12-14-300-001 <i>1900s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b>	unknown
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
217	12-14-400-014 <i>1910s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
206	12-15-100-004 <i>1910s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Sheet metal
203	12-16-100-001 <i>1940s</i>	Feeder <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Concrete block / sheet metal
			<b>Roof:</b>	Sheet metal
204	12-16-100-004 <i>1900s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Asphalt shingle
212	12-16-300-001 <i>1900s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
209	12-16-400-003 <i>1900s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Sheet metal
			<b>Roof:</b>	Sheet metal
198	12-18-100-002 <i>1940s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Cement asbestos shingle
200	12-18-200-001 <i>1920s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
229	12-19-200-005 <i>1890s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	unknown
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Cement asbestos shingle

<b>ID</b>	<b>PIN Date</b>	<b>Barn Type Significance</b>	<b>Materials</b>
260	12-21-200-004 <i>1900s</i>	Round barn <i>National Register potential</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Board & batten <b>Roof:</b> Asphalt shingle
264	12-22-200-007 <i>1900s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Board & batten <b>Roof:</b> Asphalt sheeting
262	12-22-300-008 <i>1905</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b> Concrete block <b>Walls:</b> Wood siding <b>Roof:</b> Asphalt shingle
273	12-23-400-012 <i>1900s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b> unknown <b>Walls:</b> Board & batten <b>Roof:</b> Wood shingle
277	12-24-300-003 <i>1880s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b> Limestone <b>Walls:</b> Board & batten <b>Roof:</b> Wood shingle
278	12-25-200-004 <i>1882</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b> Limestone <b>Walls:</b> Asphalt sheeting <b>Roof:</b> Sheet metal
281	12-25-300-001 <i>1900s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Board & batten <b>Roof:</b> Sheet metal
280	12-25-400-002 <i>1900s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Board & batten <b>Roof:</b> Sheet metal
283	12-26-200-001 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Board & batten <b>Roof:</b> Sheet metal
259	12-28-200-006 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b> Limestone <b>Walls:</b> Board & batten <b>Roof:</b> Sheet metal
258	12-28-200-011 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b> Limestone <b>Walls:</b> Board & batten <b>Roof:</b> Cement asbestos shingle
242	12-28-300-006 <i>1900s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b> Concrete <b>Walls:</b> Sheet metal <b>Roof:</b> Sheet metal
231	12-29-100-002 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b> Limestone <b>Walls:</b> Board & batten <b>Roof:</b> Sheet metal / asphalt shingle

<b>ID</b>	<b>PIN</b> <i>Date</i>	<b>Barn Type</b> <i>Significance</i>	<b>Materials</b>	
240	12-29-200-003 <i>1920s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Asphalt shingle
233	12-29-300-001 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Asphalt sheeting
			<b>Roof:</b>	Corrugated sheet metal
228	12-30-100-006 <i>1860s</i>	Bank <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Wood siding
			<b>Roof:</b>	Sheet metal
238	12-30-300-004 <i>1900s</i>	Plank frame <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
232	12-30-400-008 <i>1870s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
235	12-32-100-005 <i>1930s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Plywood
			<b>Roof:</b>	Asphalt shingle
246	12-32-200-008 <i>1860s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Sheet metal
			<b>Roof:</b>	Asphalt shingle
248	12-32-400-006 <i>1870s</i>	Three-bay threshing <i>Local landmark potential</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Cement asbestos shingle
252	12-34-100-003 <i>1930s</i>	Dairy <i>Contributing</i>	<b>Foundation:</b>	Concrete block
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Sheet metal
251	12-34-300-001 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
271	12-34-400-004 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Wood
			<b>Roof:</b>	Cement asbestos shingle
269	12-35-100-001 <i>1880s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Limestone
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle
270	12-35-300-005 <i>1900s</i>	Three-bay threshing <i>Contributing</i>	<b>Foundation:</b>	Concrete
			<b>Walls:</b>	Board & batten
			<b>Roof:</b>	Asphalt shingle

<b>ID</b>	<b>PIN</b>	<b>Barn Type</b>	<b>Materials</b>
	<i>Date</i>	<i>Significance</i>	
285	12-35-400-001	Three-bay threshing	<b>Foundation:</b> Concrete
	<i>1904</i>	<i>Contributing</i>	<b>Walls:</b> Board & batten
			<b>Roof:</b> Asphalt shingle
287	12-36-100-003	Dairy	<b>Foundation:</b> Concrete
	<i>1910s</i>	<i>Local landmark potential</i>	<b>Walls:</b> Board & batten
			<b>Roof:</b> Asphalt shingle

## BIBLIOGRAPHY

### Previous Surveys

In 1988, Will County performed a survey of unincorporated rural areas, documenting approximately 4,867 structures dating from before 1945. The documentation, performed by architect Michael A. Lambert, consisted of black and white photographs and a completed information card utilizing a format established by the Illinois Historic Preservation Agency. Recorded information included the approximate age, architectural style, construction materials, noticeable additions or alterations, and overall condition of the structure. For most sites, survey data was gathered from the public right-of-way. In addition to the survey a report was prepared, "Historic Structures of Will County," dated 1991. The report examined the overall rural themes present in the county and identification of noteworthy structures.

In 1999, the Will County Land Use Department, acting as liaisons for the Will County Historic Preservation Commission, engaged Wiss, Janney, Elstner Associates, Inc. to perform an intensive survey of Wheatland, Plainfield, and Lockport Townships in northwest Will County, Illinois. In 2001, an intensive survey was performed of Du Page Township in Will County, followed by Homer Township in 2002; New Lenox Township in 2003; and Green Garden Township in 2004. The resulting reports from these surveys were used as a basis for developing this report.

### Books, Articles, and Other Publications

Adelmann, Gerald W. "A Preservation History of the Illinois and Michigan Canal." In *Illinois and Michigan Canal National Heritage Corridor: A Guide to Its History and Sources*. Edited by Michael P. Conzen and Kay J. Carr. DeKalb, Illinois: Northern Illinois University Press, 1988.

Agricultural Schedules for Illinois (7<sup>th</sup> Federal Census). 1850. Record Series 951.008, Illinois State Archives.

*In comparing cumulative data for Will County from the 1850 census with later census data, it should be noted that the land of Kankakee County was part of Will County until 1851.*

Agricultural Schedules for Illinois (8<sup>th</sup> Federal Census). 1860. Record Series 951.009, Illinois State Archives.

Agricultural Schedules for Illinois (9<sup>th</sup> Federal Census). 1870. Record Series 951.010, Illinois State Archives.

Agricultural Schedules for Illinois (10<sup>th</sup> Federal Census). 1880. Record Series 951.011, Illinois State Archives.

Alberts, Amy D. "Athens Marble: The Rise and Fall of a Building Stone." In *Looking for Lemont: Place and People in an Illinois Canal Town*. Studies on the Illinois and Michigan Canal Corridor, no. 7. Edited by Michael P. Conzen and Carl A. Zimring. Chicago: Committee on Geographical Studies, University of Chicago, 1994.

Alvord, Clarence Walworth. *The Illinois Country: 1673–1818*. The Sesquicentennial History of Illinois, Volume One. Urbana, Illinois: University of Illinois Press, 1920.

Andreas, A.T. *History of Chicago, from the Earliest Period to the Present Time*. Three volumes. Chicago: A.T. Andreas, 1884.

Arris Architects and Planners [Michael A. Lambert, principal author]. *Dyer–Rathbun Farm, Bolingbrook, Illinois*. October 1997.

——— [Michael A. Lambert, principal author]. *A Historic Structure Assessment for the Williams Farm, New Lenox Township, Will County, Illinois*. 6 April 2001.

Auer, Michael J. *Preservation Brief 20. The Preservation of Barns*. National Park Service, Technical Preservation Services, October 1989.

**Wiss, Janney, Elstner Associates, Inc.**

- Bale, D. Andrew, editor. *A Necrology of Will County Pioneers, 1886-1890*. Wilmington, Illinois: Will/Grundy Counties Genealogical Society, 1992.
- . *A Necrology of Will County Pioneers, 1890-1897*. Wilmington, Illinois: Will/Grundy Counties Genealogical Society, 1993.
- . *A Necrology of Will County Pioneers, 1902-1907*. Wilmington, Illinois: Will/Grundy Counties Genealogical Society, 1994.
- . *A Necrology of Will County Pioneers, 1911-1921*. Wilmington, Illinois: Will/Grundy Counties Genealogical Society, 1998.
- Benedetti, Michael M. "Urban and Municipal Development, 1836-1900." In *Lockport Legacy: Themes in the Historical Geography of an Illinois Canal Town*. Edited by Michael P. Conzen and Adam R. Daniel. Chicago: University of Chicago, 1990.
- Berg, Donald J. *American Country Building Design*. New York: Sterling Publishing Co., 1997.
- Bingle, James D, compiler. *Bolingbrook Does Too Have a History*. Bolingbrook, Illinois: Bolingbrook Historical Society, n.d. [circa late 1970s].
- . *Bolingbrook Has Even More History*. Bolingbrook, Illinois: Bolingbrook Historical Society, n.d. [circa 1980].
- . *Bolingbrook Keeps Making History*. Bolingbrook, Illinois: Bolingbrook Historic Preservation Commission, n.d. [circa 1995].
- Birnbaum, Charles A. *Preservation Brief 36. Protecting Cultural Landscapes: Planning, Treatment and Management of Historic Landscapes*. National Park Service, Technical Preservation Services, September 1994.
- Blair, Emma Helen [translator and editor]. *The Indian Tribes of the Upper Mississippi Valley and Region of the Great Lakes*. 1911. Reprint, Lincoln, Nebraska: University of Nebraska Press, 1996.
- Block, Daniel Ralston. "The Development of Regional Institutions in Agriculture: The Chicago Milk Marketing Order." Ph.D. diss., University of California at Los Angeles, 1997.
- "Bolingbrook Parade Huge Success." *Bolingbrook Beacon*. 29 September 1966,
- Britt, Albert. *An America That Was: What Life Was Like on an Illinois Farm Seventy Years Ago*. Barre, Massachusetts: Barre Publishers, 1964.
- Bruce, Alfred, and Harold Sandbank. *A History of Prefabrication*. Research Study 3. Raritan, New Jersey: John B. Pierce Foundation, Housing Research Division, 1945.
- Calkins, Charles F. *The Barn as an Element in the Cultural Landscape of North America: A Bibliography*. Monticello, Illinois: Vance Bibliography, September 1979.
- Campbell, H. Colin. "Concrete Silo Construction." *Hoard's Dairyman* (21 February 1919): 200.
- Carter, Deane G. and W.A. Foster. *Farm Buildings*, 3<sup>rd</sup> ed. New York: John Wiley & Sons, 1941.
- Caton, John Dean. *Miscellanies*. Boston: Houghton, Osgood and Company, 1880.

- Chicoine, David Lyle. "Farmland Values in an Urban Fringe: An Analysis of Market Data from Will County, Illinois." Ph.D. diss., University of Illinois at Urbana-Champaign, 1979.
- The Code of Country Living*. Bloomington, Illinois: Illinois Farm Bureau, 1999.
- Clark, W.L., Moline Plow Company, to John Frazer, Lockport, Illinois. 7 April 1913. Letter contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Colton, J.H. (Joseph Hutchins). *Colton's Railroad & Township Map, Western States Compiled from the United States Surveys*. New York, 1853.
- Concrete for the Farmer*. Chicago: Universal Portland Cement Co., 1914.
- Concrete on the Dairy Farm*. N.p.: Portland Cement Association, n.d. [circa 1920s].
- Concrete Silos: A Booklet of Practical Information for the Farmer and Rural Contractor*. Chicago: Universal Portland Cement Co., 1914.
- Conzen, Michael P. "1848: The Birth of Modern Chicago." In *1848: Turning Point for Chicago, Turning Point for the Region*. Chicago: The Newberry Library, 1998.
- Cooley, Verna. "Illinois and the Underground Railroad to Canada." *Transactions of the Illinois State Historical Society* XXIII (1916).
- Coppa & Avery Consultants. *Farm Architecture: A Guide to Farmhouses and Buildings*. Monticello, Illinois: Vance Bibliography, April 1982.
- Cremin, Dennis H. "The Region in 1848: A View Down the I&M Canal Corridor." In *1848: Turning Point for Chicago, Turning Point for the Region*. Chicago: The Newberry Library, 1998.
- Cultural & Historical Preservation Plan*. Will County, Illinois: Will County Regional Planning Commission, 1976.
- Curtis, Mitchell. "Will County Settler Built 1<sup>st</sup> Steel Plow." *Chicago Daily News*, 8 May 1936. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Danckers, Ulrich, and Jane Meredith. *Early Chicago*. River Forest, Illinois: Early Chicago, Incorporated, 1999.
- Davis, James E. *Frontier Illinois*. Bloomington, Indiana: Indiana University Press, 1998.
- "Disputes Claim Made by Deeres." *Joliet Daily News*, 11 December 1912. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Doane Ideas on Farm Buildings*. St. Louis: Doane Agricultural Service, 1955.
- Doershuk, John. *Plenemuk Mound and the Archaeology of Will County*. Illinois Cultural Resources Study No. 3. Springfield, Illinois: Illinois Historic Preservation Agency, 1988.

**Wiss, Janney, Elstner Associates, Inc.**

- Dotson, Michael E. *In Search of the Golden Fleece: A Study of the Fur Trade in Will County, 1673–1825*. N.p.: Will County Historical Society, 1986.
- Drury, John. *This is Will County, Illinois*. The American Aerial County History Series, No. 26. Chicago: The Loree Company, 1955.
- Duddy, Edward A. *Agriculture in the Chicago Region*. Chicago: University of Chicago Press, 1929.
- Ekberg, Carl J. *French Roots in the Illinois Country: The Mississippi Frontier in Colonial Times*. Urbana, Illinois: University of Illinois Press, 1998.
- Eichelberger, Elizabeth. "Octogenarian [sic] Tells How it Used To Be in the Old Days." *Bolingbrook Beacon*. 17 November 1971, p. 6.
- Ellis, Edward Robb. *A Nation in Torment: The Great American Depression, 1929-1939*. 1970. Reprint New York: Kodansha International, 1995.
- Eulogy of Eliza Wells. 1892. Collection of Faye (Rodgers) Schroll.
- Family Tree of Pearl E. (Wells) Rodgers. Collection of Faye (Rodgers) Schroll.
- Farm Buildings*. Chicago: Sanders Publishing, 1905.
- Farm Buildings*. Chicago: Sanders Publishing, 1911.
- Farm Buildings: How to Build Them*. Charles City, Iowa: W.E. Frudden, 1916.
- Farm Buildings: New and Enlarged Edition*. Chicago: The Breeder's Gazette, 1913.
- "Farmers' Hall of Fame." Unknown newspaper, 1913. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Farrington, Leslie Joseph. "Development of Public School Administration in the Public Schools of Will County, Illinois, As Shown in a Comparison of Three Selected Years: 1877, 1920, and 1965." Ph.D. diss., Northern Illinois University, 1967.
- Fetherston, David. *Farm Tractor Advertising In America: 1900-1960*. Osceola, Wisconsin: Motorbooks International, 1996.
- "Find Old Likeness of Giant Plowman." Unknown Joliet, Illinois, newspaper, 11 June 1913. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- "The First Steel Plow." *The Farm Home* 39 (August 1913). The article includes an account by Dr. John F. Daggett on the creation of the first steel plow, read at the ninth annual meeting of the old soldiers of Will County, 1890. It is contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Fisher, D.J. *Geology and Mineral Resources of the Joliet Quadrangle*. Bulletin No. 51 of the Illinois State Geological Survey. Urbana, Illinois, 1925.

- Fitzgerald, Deborah. "Farmers Deskilled: Hybrid Corn and Farmers' Work." In *Technology and American History: A Historical Anthology from "Technology & Culture."* Edited by Stephen H. Cutcliffe and Terry S. Reynolds. Chicago: University of Chicago Press, 1997.
- Foster, W.A. "Silo Types and Essentials." *Hoard's Dairyman* (21 February 1919): 201, 216, 217, and 232.
- Francis, Dorothy Frazer. "John Lane: Inventor of the First Steel Plow, 1833." 1995. Manuscript in the collection of the New Lenox Public Library.
- Gardner, Frank D. *Traditional American Farming Techniques [Successful Farming]*. 1916. Reprint, Guilford, Connecticut: The Lyons Press, 2001.
- Gardner, John S., editor. *The Fitzpatrick Homestead: A University of Illinois Case Study in Recording Historic Buildings*. Springfield, Illinois: Illinois Historic Preservation Agency, n.d.
- Genealogical and Biographical Record of Will County, Illinois*. Chicago: Biographical Publishing Company, 1900.
- Goldthwait, James Walter. *Physical Features of the Des Plaines Valley*. Illinois State Geological Society Bulletin No. 11. Urbana, Illinois: University of Illinois, 1909.
- Gordon, Stephen C. *How to Complete the Ohio Historic Inventory*. Columbus, Ohio: Ohio Historical Society, 1992.
- Halsted, Dr. Byron D., and Edwin C. Powell, editors. *Barn Plans and Outbuildings*. New York: Orange Judd Company, 1917.
- Hardick, Jane E. "Suburbanization and Annexation since 1930." *Time and Place in Joliet: Essays on the Geographical Evolution of the City*. Edited by Michael P. Conzen. Chicago: University of Chicago, 1988.
- Harris, Emily J. *Prairie Passage: The Illinois and Michigan Canal Corridor*. Urbana, Illinois: University of Illinois Press, 1998.
- Hartwell, Levi, Altamont, Kansas, to Nelson Lynk, Home Insurance Company, Manhattan, Illinois. 11 May 1937. Letter contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Herath, Jean L. *Indians and Pioneers: A Prelude to Plainfield, Illinois*. Hinckley, Illinois: The Hinckley Review, 1975.
- Historic American Buildings Survey IL-311, Town of Lemont.
- Historic American Engineering Record IL-18, Joliet Army Ammunition Plant.
- "Historical Marker Commemorates Old Barber's Corners of the Past." *Bolingbrook Beacon*. 12 September 1979, p. 4.
- The History and Genealogy of the Family John and Jane Hall Patterson of Kirtlehead, Dumfriesshire, Scotland*. N.p., n.d.
- History of Du Page County, Illinois*. Aurora, Illinois: Knickerbocker & Hodder, 1877.
- A History of Plainfield "Then and Now."* N.p., n.d.

*History of State Departments, Illinois Government, 1787–1943.* Compiled by Margaret C. Norton, Illinois State Archives.

“The History of the Lincoln-Way Area.” Undated typed manuscript.

“Homer Benefactor Formally Nominated.” Unknown newspaper, 1913. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

“Homer’s Roll of Honor.” Lockport, Illinois: Will County Historical Society, October 1973.

“Honor Inventor of First Plow.” Unknown Joliet, Illinois, newspaper, 26 November 1915. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

House Joint Resolution 388, 75<sup>th</sup> Congress, 1<sup>st</sup> Session, 27 May 1937. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

“How to Make and Sell Concrete Silo Staves.” *Concrete* (October 1927): 32-35.

Hrpcha, Mabel. *Romeoville, Illinois*. N.p., 1967.

Hull, Harry H. “John Lane, Blacksmith.” 1994. Manuscript in the collection of the New Lenox Public Library.

Illinois Department of Public Works and Buildings, Division of State Parks. *Illinois Park, Parkway and Recreational Area Plan*. Chicago: Illinois State Planning Commission, 1938.

“Illinois-Michigan Canal Reaches Century Mark.” *Illinois Public Works* 6, no. 2 (summer 1948): 14–16.

*Illinois Place Names*. Edited by William E. Keller and compiled by James N. Adams with an addendum by Lowell E. Volkel. Springfield, Illinois: Illinois State Historical Society, 1989.

Illinois Public Domain Land Tract Sales Database, website located at <http://www.cyberdriveillinois.com/departments/archives/genealogy/landsrch.html> (State of Illinois Secretary of State).

Jackson, Kenneth T. *Crabgrass Frontier: The Suburbanization of the United States*. New York: Oxford University Press, 1985.

Jessup, Theodore. “Starved Rock and Its Neighborhood.” *Transactions of the Illinois State Historical Society* XI (1906).

“Joe Henebry Celebrates 25 Years at Plainfield.” *Farmer’s Elevator Guide*. 5 April 1937.

“The John Lane Steel Plow Tradition.” *Farm Implement News* 58, no. 12 (17 June 1937). Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Johnson, A.N. “Cost of a System of Durable Roads for Illinois.” *The Eighteenth Annual Report of the Illinois Farmers’ Institute*. Edited by H.A. McKeene. Springfield, Illinois: Illinois State Journal Company, 1913.

- Jones, Edward Richard. *Farm Structures*. Madison, Wisconsin: University of Wisconsin Press, 1933.
- Kallick, Sonia Aamot. *Lemont and Its People, 1673–1910*. Louisville, Kentucky: Chicago Spectrum Press, 1998.
- Kane County Development Department, Planning and Projects Division. *Built for Farming: A Guide to the Historic Rural Architecture of Kane County*. N.p., 1991.
- Keyes, Jonathan J. “Agricultural Hinterland: A Profile of the Lemont Township Community in 1860.” In *Looking for Lemont: Place and People in an Illinois Canal Town*. Studies on the Illinois and Michigan Canal Corridor, no. 7. Edited by Michael P. Conzen and Carl A. Zimring. Chicago: Committee on Geographical Studies, University of Chicago, 1994.
- King, M.L. “Planning the Silo.” *The Eighteenth Annual Report of the Illinois Farmers’ Institute*. Edited by H.A. McKeene. Springfield, Illinois: Illinois State Journal Company, 1913.
- Knight, Robert, and Lucius Zeuch. “Mount Joliet: Its Place in Illinois History and Its Location.” *Journal of the Illinois State Historical Society* 23, no. 1 (April 1930).
- Krey, Frank, and J.E. Lamar. *Limestone Resources of Illinois*. Urbana, Illinois: State of Illinois Department of Registration and Education, Division of the State Geological Survey, 1925.
- Lamb, John. *Lockport, Illinois: The Old Canal Town*. Charleston, South Carolina: Arcadia, 1999.
- Lambert, Michael A. “Rural Crossroads: Meaning and Architecture.” [Master’s degree student paper, University of Illinois, 1985.]
- Lockport, Illinois: An HCRS Project Report*. Washington, D.C.: U.S. Government Printing Office, n.d.
- Lockwood, Charles. “Sprawl.” *Hemispheres*. September 1999.
- Lynk, Nelson, Home Insurance Company, Manhattan, Illinois. [1936?] Transcription of letter by Sam Hartwell, son of Levi Hartwell, contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- MacMillan, Thomas C. “The Scots and Their Descendants in Illinois.” *Transactions of the Illinois State Historical Society* XXVI (1919).
- Martin, R.E. “Steel Bin Design for Farm Storage of Grain.” *Agricultural Engineering* (April 1940): 144 and 146.
- Maue, August. *History of Will County, Illinois*. Indianapolis: Historical Publishing, 1928.
- McHugh, F.D., *Scientific American*, to F.A. Wirt, J.I. Case Company. 13 May 1937. Letter contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- McKeene, H.A., editor. *The Eighteenth Annual Report of the Illinois Farmers’ Institute*. Springfield, Illinois: Illinois State Journal Co., State Printers, 1914.
- Memories with Progress: Manhattan, Illinois, 1886–1986*. N.p., n.d.
- Meyer, Douglas K. *Making the Heartland Quilt: A Geographical History of Settlement and Migration in Early-Nineteenth Century Illinois*. Carbondale, Illinois: Southern Illinois University Press, 2000.

- The Midwest Farm Handbook*. Ames, Iowa: Iowa State College Press, 1957.
- Morrison, Olin Dee. *Prairie State, A History: Social, Political, Economical*. Athens, Ohio: E. M. Morrison, 1960.
- Myers, John H., and revised by Gary L. Hume. *Preservation Brief 8. Aluminum Siding and Vinyl Siding on Historic Buildings: The Appropriateness of Substitute Materials for Resurfacing Historic Wood Frame Buildings*. National Park Service, Technical Preservation Services, October 1984.
- Naperville Centennial*. Naperville, Illinois: Fort Payne Chapter of the Daughters of the American Revolution, 1931.
- National Park Service, in association with the Georgia Trust for Historic Preservation. *Guide to Sustainable Earthworks Management*. 90 Percent Draft. 1998.
- National Register Bulletin 15. *How to Apply the National Register Criteria for Evaluation*. Washington, D.C.: U.S. Department of the Interior, National Park Service, Cultural Resources Division, 1997.
- National Register Bulletin 30. *Guidelines for Evaluating and Documenting Rural Historic Landscapes*. Washington, D.C.: U.S. Department of the Interior, National Park Service, Interagency Resources Division, n.d.
- National Register of Historic Places Registration Form. "New Lenox Site, 11-Wi-213." Draft 2 May 1995.
- Neth, Mary. *Preserving the Family Farm: Women, Community, and the Foundations of Agribusiness in the Midwest, 1900-1940*. Baltimore: Johns Hopkins University Press, 1995.
- Neushwander, Toni Evans. *The Old Brick Tavern and Lincoln Hotel*. Preliminary Report. 28 April 1995.
- Noble, Allen G., and Richard K. Cleek. *The Old Barn Book: A Field Guide to North American Barns & Other Farm Structures*. New Brunswick, New Jersey: Rutgers University Press, 1995.
- Noble, Allen G., and G.H. Wilhelm, editors. *Barns of the Midwest*. Athens, Ohio: University of Ohio Press, 1995.
- Noble, Allen G. *Wood, Brick, & Stone*. The North American Settlement Landscape, Volume 2: Barns and Farm Structures. Amherst, Massachusetts: University of Massachusetts Press, 1984.
- Obituary of John Lane. *Scientific American* (21 November 1857). Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- 100 Years of Worship Together, 1885 - 1985*. Green Garden United Methodist Church, Green Garden, Illinois.
- Opie, John. *The Law of the Land: Two Hundred Years of American Farmland Policy*. Lincoln, Nebraska: University of Nebraska Press, 1987.
- "Order Tablets to Mark Spots of Early Work." Unknown newspaper, 1915. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Ott, Elmer F. "Old Hickory School in Du Page First in Will County." *Joliet Herald-News*. 27 October 1962, p. 7.
- Peck, J.M. *A Gazetteer of Illinois, in Three Parts: Containing a General View of the State, a General View of Each County, and a Particular Description of Each Town, Settlement, Stream, Prairie, Bottom, Bluff, Etc.; Alphabetically Arranged*. Philadelphia: Grigg & Elliot, 1837.

- Peek, B.F., Deere and Company, to Paul M. Angle, Illinois State Historical Library, 14 September 1937. Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.
- Peterson, Fred W. "Anglo-American Wooden Frame Farmhouses in the Midwest, 1830–1900: Origins of Balloon Frame Construction." In *People, Power, Places: Perspectives in Vernacular Architecture VIII*. Edited by Sally McMurry and Annmarie Adams. Knoxville: University of Tennessee Press, 2000.
- Peterson, Fred W. *Homes in the Heartland: Balloon Frame Farmhouses of the Upper Midwest, 1850–1920*. Lawrence, Kansas: University Press of Kansas, 1992.
- Pitman, Florence. *The Story of Mokena*. Mokena, Illinois: Mokena Woman's Club, n.d.
- Plans for Concrete Farm Buildings*. N.p.: Portland Cement Association, n.d. [circa 1920s].
- Portrait and Biographical Album of Will County, Illinois*. Chicago: Chapman Bros., 1890.
- Pote, Linda T. "The Celebrated Joliet Marble Fields': An Historical Geography of the Lower Des Plaines Valley Limestone Industry." *Time and Place in Joliet: Essays on the Geographical Evolution of the City*. Edited by Michael P. Conzen. Chicago: University of Chicago, 1988.
- Prairie Farmer's Reliable Directory of Farmers and Breeders of Will and Southern Cook Counties, Illinois*. Chicago: Prairie Farmer Publishing Company, 1918.
- Prasad, Janet. "Boxed In." *Homer Glen, Lockport, and Lemont Sun*. 2 May 2002.
- Radford, William A. *Cement Houses and How to Build Them*. Chicago: The Radford Architectural Company, n.d. [Circa 1910s.]
- Ramsower, Harry C. *Farm Equipment and How to Use It*. 1917. Reprint, Guilford, Connecticut: The Lyons Press, 2001.
- Roe, Keith E. *Corncribs in History, Folklife, and Architecture*. Ames, Iowa: Iowa State University Press, 1988.
- Roll of Property Owners in Will County, Illinois, in the Year 1842*. Will County, Illinois: Will County Historical Society, 1992.
- Rowley, Alfred. "Early Recollections." N.d.
- Salamon, Sonya. *Prairie Patrimony: Family, Farming, & Community in the Midwest*. Chapel Hill, North Carolina: University of North Carolina Press, 1992.
- Sanders, J.H. *Practical Hints About Barn Building*. Chicago: J.H. Sanders, 1892.
- Shaw, Fayette Baldwin, Ph.D. *Will County Agriculture*. Will County Historical Society, 1980. [This publication is "a selected portion of a thesis written and submitted by Dr. Shaw in partial fulfillment of the requirements for the degree of Doctor of Philosophy, Harvard University, 1933."]
- Silos: Types and Construction*. Washington, D.C.: U.S. Department of Agriculture, 1948.
- Simpson, Pamela H. *Cheap, Quick, & Easy: Imitative Architectural Materials, 1870-1930*. Knoxville: University of Tennessee Press, 1999.

*Small Farm Buildings of Concrete: A Booklet of Practical Information for the Farmer and Rural Contractor.* Chicago: Universal Portland Cement Co., 1914.

*Smith & Betts Farm and Building Book.* Chicago: The Radford Architectural Company, 1915.

*Souvenir of Settlement and Progress of Will County, Illinois: A Review.* Chicago: Historical Directory Publishing, 1884.

*Souvenir Sketch of the Wheatland Plowing Match with Programme for Meeting of 1898.* Joliet, Illinois: Republican Printing Co., 1898.

“Splendid Review by Mrs. J.D. Frazer, the Oldest Pioneer.” 1906. Article transcription contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Sprague, Paul E. “Chicago Balloon Frame: The Evolution During the 19<sup>th</sup> Century of George W. Snow’s System for Erecting Light Frame Buildings from Dimension Lumber and Machine-made Nails.” *The Technology of Historic American Buildings*. Edited by H. Ward Jandl. Washington, D.C.: Foundation for Preservation Technology for the Association for Preservation Technology, 1983.

Spies, L.A. “How to Make Money Dairying on Land Worth Two Hundred Dollars per Acre.” *The Eighteenth Annual Report of the Illinois Farmers’ Institute*. Edited by H.A. McKeene. Springfield, Illinois: Illinois State Journal Company, 1913.

Sproat, Iva Gillett. *Heritage of Faith, Heritage of Land*. Coal City, Illinois: Bailey Printing and Publishing Company, 1983.

“State May Honor Name of Late John Lane Sr.” Unknown newspaper, 1913. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Sterling, Robert E. *A Pictorial History of Will County: Volume I*. Joliet, Illinois: 2H Printing, 1975.

Sterling, Robert E. *A Pictorial History of Will County: Volume II*. Joliet, Illinois: Will County Historical Publications Company, 1976.

Stevens, Darlene Gavron. “Golf course treasure trove: home of ancient Americans.” *Chicago Tribune*. 13 December 1993.

Stevens, W.W. *Past and Present of Will County, Illinois*. Chicago: S.J. Clarke Publishing, 1907.

Stewart, John T. *Engineering on the Farm: A Treatise on the Application of Engineering Principles to Agriculture*. Chicago: Rand McNally and Co., 1923.

“ ‘Stop Deere,’ Lane Slogan in Plow Dispute.” Unknown newspaper, [1937?]. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Storm, Alice C. *Doctor Conrad Will*. Joliet, Illinois: Louis Joliet Chapter of the Daughters of the American Revolution, 1917.

Tanner, Helen Hornbeck, editor. *Atlas of Great Lakes Indian History*. Norman, Oklahoma: University of Oklahoma Press, 1987.

Taylor, Florence Walton. "Culture in Illinois in Lincoln's Day." *Transactions of the Illinois State Historical Society* 42 (1935).

Teska Associates, Inc., and Will County Land Use Department, Planning Division. *Will County Land Resource Management Plan*. October 1990, amended November 1996.

"The Tool Which Holds a World in Debt." *Farm Implement News* (6 February 1913). Article contained in "Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois," compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Towsley, Genevieve. "A Letter from Fort Payne," in *A View from Historic Naperville*, N.p., n.d.

———. "Pioneer Triumvirate on East Branch of Du Page." *Naperville Sun*. Part I, 12 September 1979; part II, 14 September 1979.

United States Department of Agriculture. *Yearbook of Agriculture*. Washington, DC: United States Government Printing Office, 1936.

United States Department of Agriculture Forest Service. *Draft Environmental Impact Statement, Midwin National Tallgrass Prairie Land and Resource Management Plan*. Wilmington, Illinois, 7 May 2001.

United States Department of Commerce, Bureau of the Census.

*Eleventh Census of the United States: 1890. Part 3: Agriculture*. Washington, D.C.

*Twelfth Census of the United States: 1900. Census of Agriculture*. Washington, D.C.: 1901.

*Thirteenth Census of the United States: 1910. Census of Agriculture*. Washington, D.C.: 1914.

*Fourteenth Census of the United States: 1920. Agriculture: Part V: General Report and Analytical Tables*. Washington, D.C.: 1922.

*Fifteenth Census of the United States: 1930.*

*Agriculture, Volume I: Farm Acreage and Farm Values by Township or Other Minor Civil Divisions*. Washington, D.C.: 1931.

*Agriculture, Volume II: Part I – The Northern States, Reports by States, with Statistics for Counties and a Summary for the United States*. Washington, D.C.: 1931.

*United States Census of Agriculture: 1935.*

*Volume II: Reports for States with Statistics for Counties and a Summary for the United States*. Washington, D.C., 1936.

*Sixteenth Census of the United States: 1940.*

*Agriculture, Volume III: General Report*. Washington, D.C.: 1943.

*Agriculture: Value of Farm Products by Color and Tenure of Farm Operator. A Special Study by Irvin Holmes, Principal Statistician for Income and Value*. Washington, D.C.: 1944.

*Agriculture: Abandoned or Idle Farms. A Special Study*. Washington, D.C.: 1943.

*United States Census of Agriculture: 1945.*

*Volume I, Part 5: Illinois. Statistics for Counties.* Washington, D.C.: 1946.

*United States Census of Agriculture: 1954.*

*Volume I: Counties and State Economic Areas; Part 5: Illinois.* Washington, D.C.: 1957.

*United States Census of Agriculture: 1964.*

*Volume I, Part 12: Illinois.* Washington, D.C.: 1967.

*1974 Census of Agriculture.*

*Volume I, Part 13: Illinois.* Washington, D.C.: 1977.

*1982 Census of Agriculture.*

*Volume I, Geographic Area Series; Part 13: Illinois.* Washington, D.C.: 1984.

*1992 Census of Agriculture.*

*Volume I, Geographic Area Series; Part 13: Illinois.* Washington, D.C.: 1994.

United States Department of the Interior. National Register of Historic Places Nomination Form for Stone Manor. Lockport, Illinois, vicinity. Listed 26 November 1980.

Upton, Dell, and John Michael Vlach, editors. *Common Places: Readings in American Vernacular Architecture.* Athens, Georgia: University of Georgia Press, 1986.

Upton, Dell, editor. *America's Architectural Roots: Ethnic Groups that Built America.* New York: Preservation Press, John Wiley & Sons, 1986.

"The Use of Concrete Work on the Farm." *Building Age.* (February 1917): 99-105.

Vlach, John Michael. *Barns.* New York: W.W. Norton & Company, and Washington, D.C.: Library of Congress, 2003.

Vierling, Philip E. *Early Powered Mills of the Des Plaines River and Its Tributaries, Illinois.* Volume I. Chicago: Illinois Country Outdoor Guides, 1995.

———. *Early Powered Mills of the Des Plaines River and Its Tributaries, Illinois.* Volume II. Chicago: Illinois Country Outdoor Guides, 1998.

Ward, Carrington R. "Staying On the Farm: Persistence, Growth, and Turnover in Lemont and Palos Townships, 1870–1880." In *Looking for Lemont: Place and People in an Illinois Canal Town.* Studies on the Illinois and Michigan Canal Corridor, no. 7. Edited by Michael P. Conzen and Carl A. Zimring. Chicago: Committee on Geographical Studies, University of Chicago, 1994.

*What the Farmer Can Do with Concrete.* Montreal, Quebec: Canada Cement Company Limited, n.d. [Circa 1920s.]

*Will County Directory for 1859–60.* Compiled by John C.W. Bailey. Chicago: William H. Rand, 1859.

*Will County, Illinois: Land Resource Management Plan.* 18 April 2002.

*Will County Places, Old and New.* Will County Historical Society, 1982.

*Will County Property Owners, 1842*. Reprint, Joliet, Illinois: Will County Historical Society, 1973.

“William Gougar I was born in Northumberland County, Pennsylvania.” 1928. Handwritten manuscript in the collection of the New Lenox Public Library.

Willman, H.B. *Summary of the Geology of the Chicago Area*. Illinois State Geological Survey Circular 460. Urbana, Illinois, 1971.

*Winds of Fury: The Will County Tornado of 1990*. Sun City West, Arizona: C.F. Boone, 1990.

Wirt, F.A., J.I. Case Company, to Bernice G. Frazer, Lockport, Illinois. 18 February 1939. Article contained in “Materials and Historical Data Concerning John Lane, the Inventor of [the] First Steel Plow, 1833, Yankee Settlement, Homer Township, Section 20, Will County, Illinois,” compiled by Dorothy Frazer Francis, Manhattan, Illinois. Manuscript in the collection of the New Lenox Public Library.

Woodruff, George H. *Forty Years Ago: A Contribution to the Early History of Joliet and Will County*. Joliet, Illinois: Joliet Republican Steam Printing House, 1874.

———. *Patriotism of Will County: Designed to Preserve the Names and Memory of Will County Soldiers*. Joliet, Illinois: Joliet Republican Book and Job Steam Printing House, 1876.

———. *History of Will County, Illinois*. Chicago: Wm. Le Baron Jr., & Company, 1878.

Wooley, John C. M.S. *Farm Buildings*. New York: McGraw-Hill Book Company, 1941.

Works Progress Administration, Federal Writers Project. *Illinois: A Descriptive and Historical Guide*. Chicago: A.C. McClurg, 1939.

Worthen, A.H. *Economical Geology of Illinois*. Volume II. Springfield, Illinois, 1882.

## Maps and Aerial Photographs

Many of the historic maps listed below were viewed on the websites of the Library of Congress at [memory.loc.gov](http://memory.loc.gov) and the Grainger Map Library of the University of Illinois at [images.grainger.uiuc.edu](http://images.grainger.uiuc.edu).

*Atlas & Plat Book, Will County, Illinois*. Rockford, Illinois: Rockford Map Publishers, 1972.

*Atlas & Plat Book, Will County, Illinois*. Rockford, Illinois: Rockford Map Publishers, 1976.

*Atlas and Supplement: Indian Villages of the Illinois Country*. Compiled by Sara Jones Tucker (1942) with supplement compiled by Wayne C. Temple (1975). Springfield, Illinois: Illinois State Museum, 1975.

Bateman, Newton, and Paul Selby, editors. *Historical Encyclopedia of Illinois and History of Du Page County*. Chicago: Munsell Publishing Company, 1913.

Burhans, S.H., and J. Van Vechten. *Map of Cook County, Illinois*. 1861.

———. *Map of Cook County, Illinois*. 1862.

———. *Map of Will County, Illinois*. 1862.

*Certificate of Survey: Wheatland Township*. St. Louis, Missouri: Surveyor’s Office, 1839.

**Wiss, Janney, Elstner Associates, Inc.**

Chicago & Northwestern Railroad- Land Department. *Map showing the Location of the Chicago & Northwestern Railway with its Branches & Connections through Illinois, Iowa, Nebraska, Wisconsin, Minnesota, Michigan.* Chicago, 1862.

*Combination Atlas Map of Du Page County.* Elgin, Illinois: Thompson Brothers & Burr, 1874.

*Combination Atlas Map of Will County.* Elgin, Illinois: Thompson Brothers & Burr, 1873.

Ensign, Bridgman & Fanning. *Railroad and County Map of Illinois Showing Its Internal Improvements 1854.* New York, 1854.

*Farm Plat Book and Business Guide: Will County, Illinois.* Joliet, Illinois: Rockford Map Publishers, Inc., 1948.

*Farm Plat Book: Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, Inc., 1957.

G.W. & C.B. Colton & Company. *Map of Danville, Olney & Ohio River Railroad and its Connections.* New York, 1881.

G.W. & C.B. Colton & Company. *Map of the Chicago and Southwestern Railway and the Chicago, Rock Island & Pacific Railroad and their Connections.* New York, 1869.

Geo. A. Ogle & Co. *Plat Book, Will County, Illinois.* Chicago, 1893.

Geo. A. Ogle & Co. *Standard Atlas of Will County, Illinois.* Chicago, 1909.

Lambert, Michael. Preliminary Study Map – Wheatland and Plainfield Township Stone Building District. 1 June 1992.

*Land Atlas and Plat Book, Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1985.

*Map of the Counties of Cook, Du Page, the East Part of Kane and Kendall, the Northern Part of Will, State of Illinois.* Chicago: James H. Rees, 1851.

*Map of Illinois Showing State Highways.* State of Illinois Department of Public Works and Buildings, Division of Highways, 1 July 1930. Contained in *Illinois Tourists Guide*, 1930.

*Map of Will County, Illinois.* Rockford, Illinois: Hixson Map Co., 1902.

McBean, Williams. *A Map of a part of the Southern & Western States Showing the Contemplated Route of the New Orleans & Ohio Railroad and the Central Railroad of Illinois, also the Route of the Mobile & Ohio Railroad Representing the Most Central, Direct and Practical Route for a Great National and Commercial Highway Between the Gulf of Mexico and the Great Northern Lakes, and by Various Branches and Intersections with Other Railways Connecting With All the Principal Cities of the United States.* New Orleans, 1850.

*Plat Book of Du Page County, Illinois.* Rockford, Illinois: W.W. Hixson and Co., 1940.

*Plat Book of Will County, Illinois.* Rockford, Illinois, W.W. Hixson and Co., 1920.

*Plat Book of Will County, Illinois.* Rockford, Illinois: W.W. Hixson and Co., n.d. [Circa 1928.]

*Plat Book of Will County, Illinois.* Rockford, Illinois, W.W. Hixson and Co., n.d. [Circa 1940.]

Plat map of Marley, New Lenox Township, Will County, Illinois. West Chicago, Illinois: Sidwell Studio, 1958.

- Plat map of Mokena, Illinois. West Chicago, Illinois: Sidwell Studio, 1958.
- Plat map of New Lenox, Illinois. West Chicago, Illinois: Sidwell Studio, 1958.
- Plat map of Spencer, New Lenox Township, Will County, Illinois. West Chicago, Illinois: Sidwell Studio, 1958.
- Rand McNally and Company. *Map of Illinois Central R.R.* Chicago: 1892.
- Rand McNally and Company. *Railroad Map of Illinois Prepared Under the Direction of, and presented by, Cicero J. Lindly, Chas. S. Rannels, and Jos. E. Bidwell, Railroad and Warehouse Commissioners.* Chicago: April 1, 1898.
- Snyder's Real Estate Map of Cook County, Illinois.* Chicago: L.M. Snyder and Co., 1886.
- Snyder's Real Estate Map of Cook, Du Page, and Part of Will Counties.* Chicago: William L. Mitchell, 1898.
- State of Illinois Department of Registration and Education, State Geological Survey Division. *Joliet Quadrangle.* 1921.
- Tanner, H.S. *Illinois and Missouri: Improved to 1825.* [Map located in the collection of the Map and Geography Library, University of Illinois at Urbana-Champaign.]
- Tri-annual Atlas & Plat Book, Du Page County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1964.
- Tri-annual Atlas & Plat Book, Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1966.
- United States Agricultural Adjustment Agency. Aerial photographs of Will County, 1939. [Images viewed on the website of the Grainger Map Library of the University of Illinois at [images.grainger.uiuc.edu](http://images.grainger.uiuc.edu).]
- United States Commodity Stabilization Service. Aerial photographs of Will County, 1954. [Images viewed on the website of the Grainger Map Library of the University of Illinois at [images.grainger.uiuc.edu](http://images.grainger.uiuc.edu).]
- United States Department of Agriculture, Soil Conservation Service, *Soil Map – Will County, Illinois*, 1980.
- Van Vechten, J. *Map of Cook and Du Page Counties.* 1870.
- Wheatland Township. Tax Assessment, 15 September 1851.
- Wheatland Township. U.S. Federal Census, 1860.
- Wheatland Township. [Circa 1860–1865.]
- Will County & Plat Book: Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1990.
- Will County & Plat Book: Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1998.
- Will County & Plat Book: Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 2000.
- Will County, Illinois: Official Farm Plat Book and Directory.* Joliet, Illinois: Dreher & Schorie, 1970.
- Will County, Illinois.* Rockford, Illinois: Rockford Map Publishers, 1985.



## GLOSSARY

**abutment.** A masonry mass (or the like) which receives the thrust of an arch, vault, or strut.

**adaptive reuse.** The conversion or functional change of a building from the purpose or use for which it was originally constructed or designed. Such conversions are accomplished with varying degrees of alterations to the building. The more change that is necessary, the less likely that particular new use is appropriate for a historic building.

**addition.** An extension or increase in floor area, number of stories, or height of a building or structure.

**arch.** A curved construction which spans an opening; usually consists of wedge-shaped blocks call voussoirs, or a curved or pointed structural member which is supported at the sides or ends. Arches vary in shape from semicircular and semi-elliptical to bluntly or acutely pointed arches.

**architectural conservation.** The science of preserving architecture and its historic fabric by observing and analyzing the evolution, deterioration, and care of structures; the conducting of investigations to determine the cause, effect, and solution of structural problems; and the directing of remedial interventions focused on maintaining the integrity and quality of historic fabric.

**balloon frame.** A system of framing a wooden building where all vertical structural elements of the exterior walls and partitions consist of light single studs (usually 2x4, but sometimes larger) which may extend the full height of the frame and are fastened by nails to the studs. Balloon framing differs from a braced frame in that a balloon framed wall acts as a bearing wall and does not rely on posts and beams to support joists.

**baluster.** One of a number of short vertical members, often circular in section used to support a stair, porch, or balcony handrail or a coping.

**balustrade.** An entire railing system (as along the edge of a balcony) including a top rail and its balusters, and sometimes a bottom rail.

**barrel vault.** A masonry vault of plain, semicircular cross section, supported by parallel walls or arcades and adapted to longitudinal areas.

**bay.** one architectural subdivision of a wall, roof, or structure marked by repetition of similar elements, such as columns or windows.

**beam.** A horizontal structural member whose prime function is to carry transverse loads, as a joist, girder, rafter, or purlin

**brick.** A solid or hollow masonry unit of clay or shale, molded into a rectangular shape while plastic, and then burnt in a kiln

**column.** A slender vertical element carrying compressive loads from other structural elements above.

**contributing.** A historic property which retains historical integrity and forms a part of a grouping of related properties

**corbel.** In masonry, a projection or one of a series of projections, each stepped progressively farther forward with height; anchored in a wall, story, column, or chimney; used to support an overhanging member above or, if continuous, to support overhanging courses

**cornice.** The exterior trim of a structure at the meeting of the roof and wall or at the top of the wall in the case of a parapet, usually consisting of bed molding, soffit, fascia, and crown molding; any molded projection which crowns or finishes the part to which it is affixed; the third or uppermost division of an entablature, resting on the frieze; an ornamental molding, usually of wood or plaster, running round the walls of a room just below the ceiling; a crown molding; the molding forming the top member of a door or window frame

**course.** a continuous horizontal range of masonry units such as bricks, as in a wall.

**dormer.** a projecting structure built out from a sloping roof, usually containing a vertical window or louver.

**elevation.** A drawing showing the vertical elements of a building, either exterior or interior, as a direct projection of the vertical plane; also used for the exterior walls of a building other than the facade (front).

**fabric.** The structural and material portions that make up the building (frames, walls, floors, roof, etc.).

**facade.** The exterior face of a building which is the architectural front, sometimes distinguished from the other faces by elaboration of architectural or ornamental details.

**gable.** The vertical triangular portion of wall at the end of a building having a double-sloping roof, from the level of the cornice or eaves to the ridge of the roof.

**gambrel.** A roof which has two pitches on each side.

**hip.** A roof which has equal pitches on all sides of a building.

**integrity.** A district, site, building, structure, or object with intact original location, design, setting, materials, workmanship, feeling, and association, to an extent that its historic character is discernible.

**joist.** One of a series of parallel beams of timber, reinforced concrete, or steel used to support floor and ceiling loads, and supported in turn by larger beams, girders, or bearing walls; the widest dimension is vertically oriented.

**landmark.** A property or district which has been designated by a government entity as possessing historic significance.

**lintel.** A horizontal structural member (such as a beam) over an opening which carries the weight of the wall above.

**mansard.** A roof having a double slope on four or more sides of the building, the lower slope being much steeper.

**mortar.** A mixture of cementitious materials (such as cement and/or lime) with water and a fine aggregate (such as sand); can be troweled in the plastic state; hardens in place. When used in masonry construction, the mixture may contain masonry cement or ordinary hydraulic cement with lime (and often other admixtures) to increase its plasticity and durability.

**mortise.** A hole, cavity, notch, slot, or recess cut into a timber or piece of other material; usually receives a tenon, but also has other purposes, as to receive a lock.

**National Register of Historic Places.** The official list of the Nation's cultural resources worthy of preservation. The National Register includes districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and cultures.

**National Historic Landmark (NHL).** Historic and archeological sites, buildings, and objects possessing exceptional value as commemorating or illustrating the history of the United States. NHLs are buildings, sites, districts, structures, and objects of exceptional national significance in American history and culture.

**non-contributing.** A property physically located within a historic district or area of study which does not relate to the defined criteria of historic significance for the area.

**parapet.** A low guarding wall at any point of sudden drop, as at the edge of a terrace, roof, battlement, balcony, etc; in an exterior wall, fire wall, or party wall, the part entirely above the roof.

**pointing.** In masonry, the final treatment of joints by the troweling of mortar into the joints. The removal of mortar from between the joints of masonry units and the replacing of it with new mortar is properly called "repointing."

**pyramidal.** A hip roof in which all planes of the roof come together at a single point.

**rehabilitation.** Returning a property to a state of usefulness through repair or alteration which makes possible an efficient contemporary use while preserving those portions or features of the property which are significant to its historical, architectural, and cultural values.

**restoration.** Accurately recovering the form and details of a property and its setting as it appeared at a particular period of time by means of the removal of later work or by replacement of missing earlier work.

**ridge.** The horizontal line at the junction of the upper edges of two sloping roof surfaces.

**shed.** A roof consisting of a single, sloping plane.

**significant.** A district, site, building, structure, or object that has integrity and that is associated with historical events or patterns of events; or that are associated with the lives of significant persons; or that embody the distinctive characteristics of a type, style, period, or method construction, or possess high artistic values.

**sill.** A horizontal timber, at the bottom of the frame of a wooden structure, which rests on the foundation; the horizontal bottom member of a window or door frame.

**spandrel.** In a multistory building, a wall panel filling the space between the top of the window in one story and the sill of the window in the story above.

**stabilization.** Applying measures designed to reestablish a weather-resistant enclosure and the structural stability of an unsafe or deteriorated property while maintaining the essential form as it exists at present.

**stud.** An upright post or support, especially one of a series of vertical structural members which act as the supporting elements in a wall or partition.

**tenon.** The projecting end of a piece of wood, or other material, which is reduced in cross section, so that it may be inserted in a corresponding cavity (mortise) in another piece in order to form a secure joint.

**tension.** The state or condition of being pulled or stretched.

**truss.** A structure composed of a combination of members that resist axial loads, usually in some triangular arrangement so as to constitute a rigid framework.

**vault.** A masonry covering over an area which uses the principle of the arch.

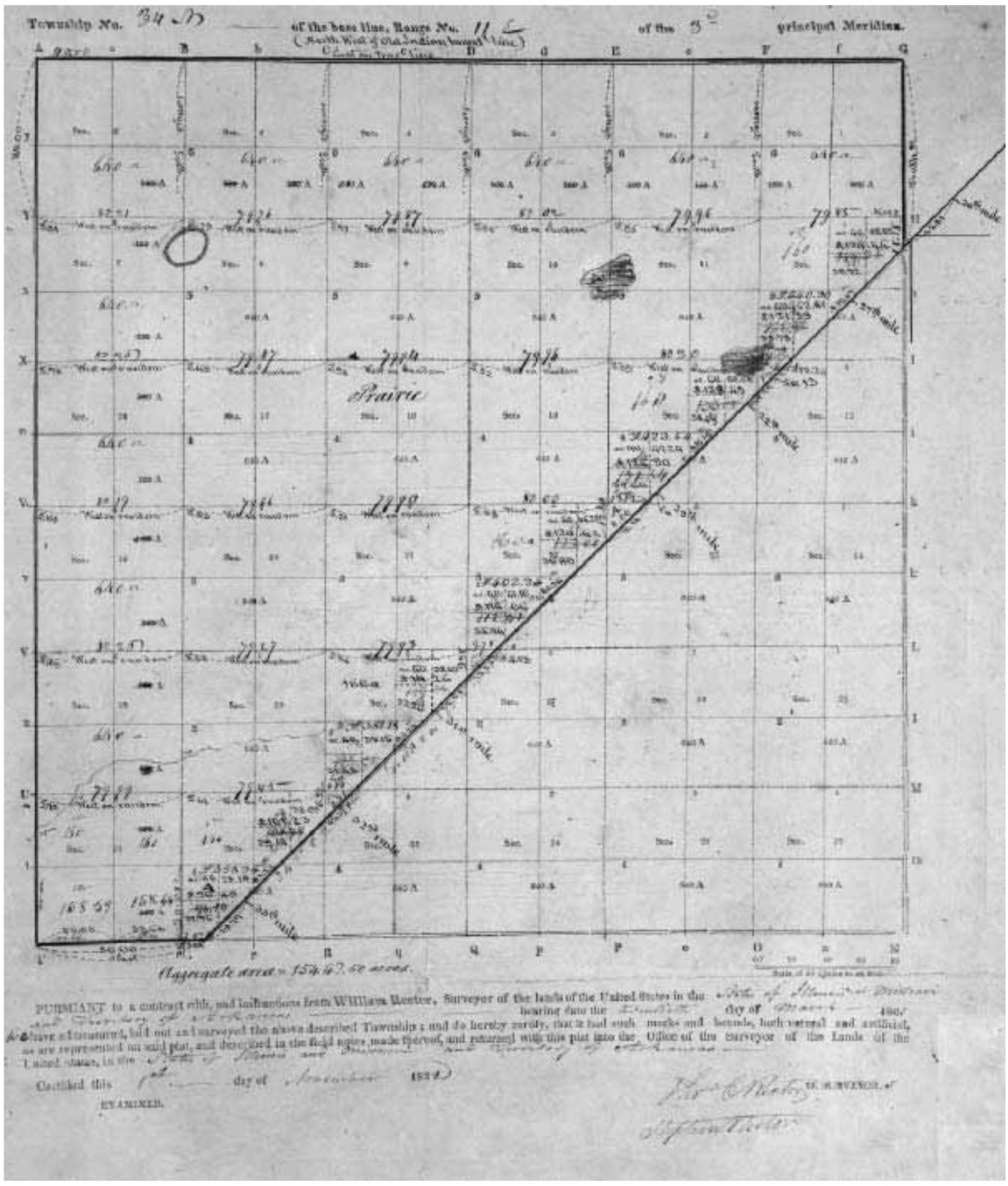
**wythe.** One thickness of brick or other masonry material in a wall, commonly about 4 inches.



## **APPENDIX A**

### **HISTORIC PLAT MAPS**

This appendix contains historic farm atlas and plat maps for Manhattan Township. Refer to Bibliography for map sources.

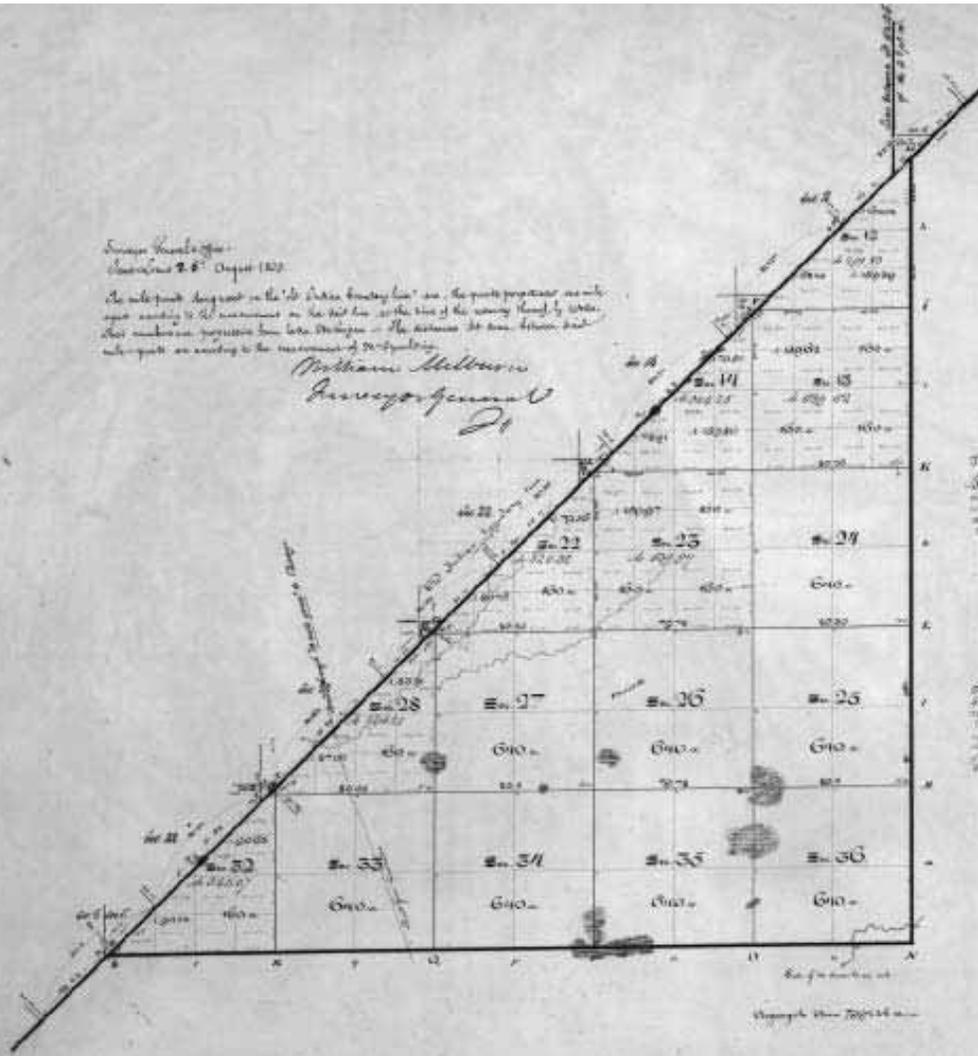


Original plat of Manhattan Township north of the Indian Boundary Line, 1822.

Survey Office  
 December 28<sup>th</sup> August 1833

The following description of the 'Indian Boundary Line' was the result of a survey made upon a plan of the same kind by which the Indian Reservation was laid down. The distance of the line from the Indian Boundary Line according to the measurement of 1833 is as follows.

William Mellen  
 Surveyor General  
 21



The following is a list of the names of the owners of the lots in the township of Manhattan south of the Indian Boundary Line, as of the 1st of January 1834. The names are given in the order in which they appear on the map.

The following is a list of the names of the owners of the lots in the township of Manhattan south of the Indian Boundary Line, as of the 1st of January 1834. The names are given in the order in which they appear on the map.

Survey Office  
 21<sup>st</sup> June 17<sup>th</sup> August 1833

The following description of the 'Indian Boundary Line' was the result of a survey made upon a plan of the same kind by which the Indian Reservation was laid down. The distance of the line from the Indian Boundary Line according to the measurement of 1833 is as follows.

William Mellen  
 Surveyor General  
 21

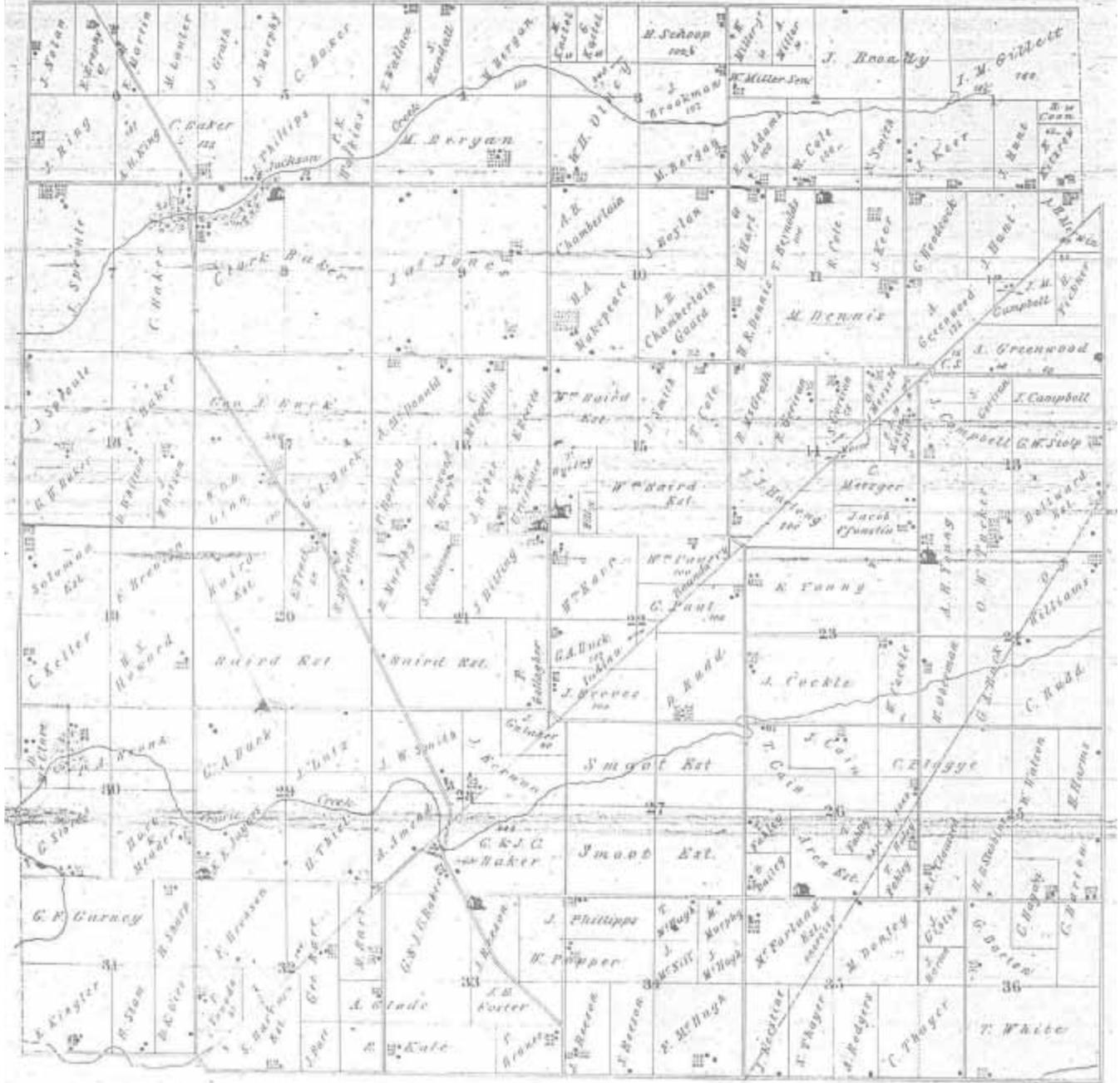
Plat of Manhattan Township south of the Indian Boundary Line, 1834.



Manhattan Township, 1862.

# MAP OF MANHATTAN TOWNSHIP

TOWN 34 N. RANGE 11 E.



STATISTICAL

No. Acres	Wheat	380
	Oats	734
	Other Field Products	2240
	Horses	234
	Cattle	1713
	Wares and Hogs	24
	Sheep	130
	Pigs	1254
Total Value Township Animals, \$22,077.		

**MANHATTAN TOWNSHIP**

was first settled, by Ephraim and Edward Perkins, at "Five-Mile Grove," in 1831 or 1832. A Mr. Stevens had also settled prior to this date. Amos McDonald, John Col. Frazer and David Rusk, Hiram Harvey, William Nelson, John Bergan, M. McGrath, and Martin Bergan were among the early settlers of this town. A private school was taught as early as 1838, by Miss Abigail Hill. William Boush was the first justice of the peace. For corn raising, and other field products, this township is one of the best in the county. Population in 1872, 922

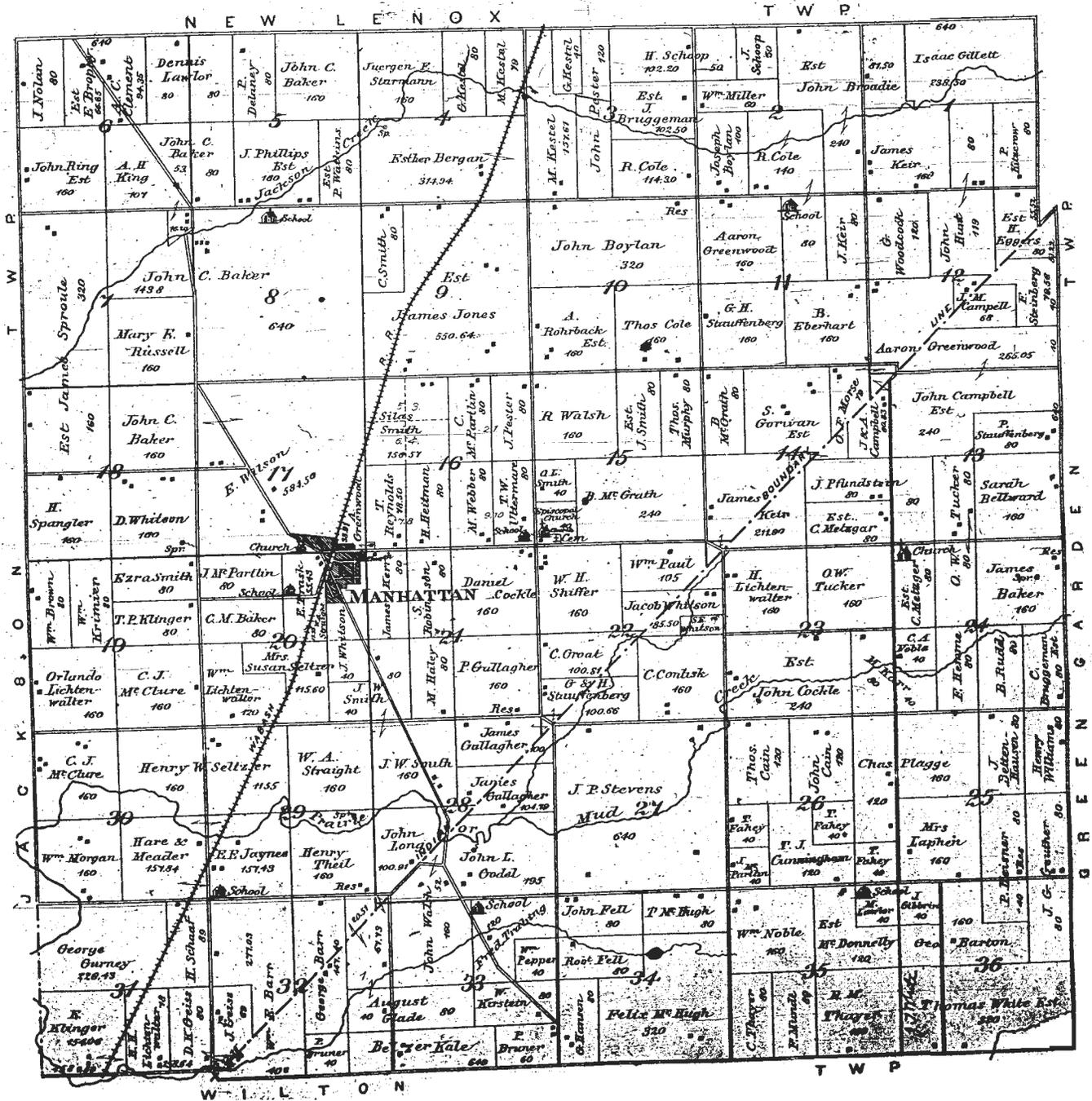
Manhattan Township, 1873.

# MANHATTAN

Scale 2 Inches to the Mile.

Township 34 North. Range XI East.

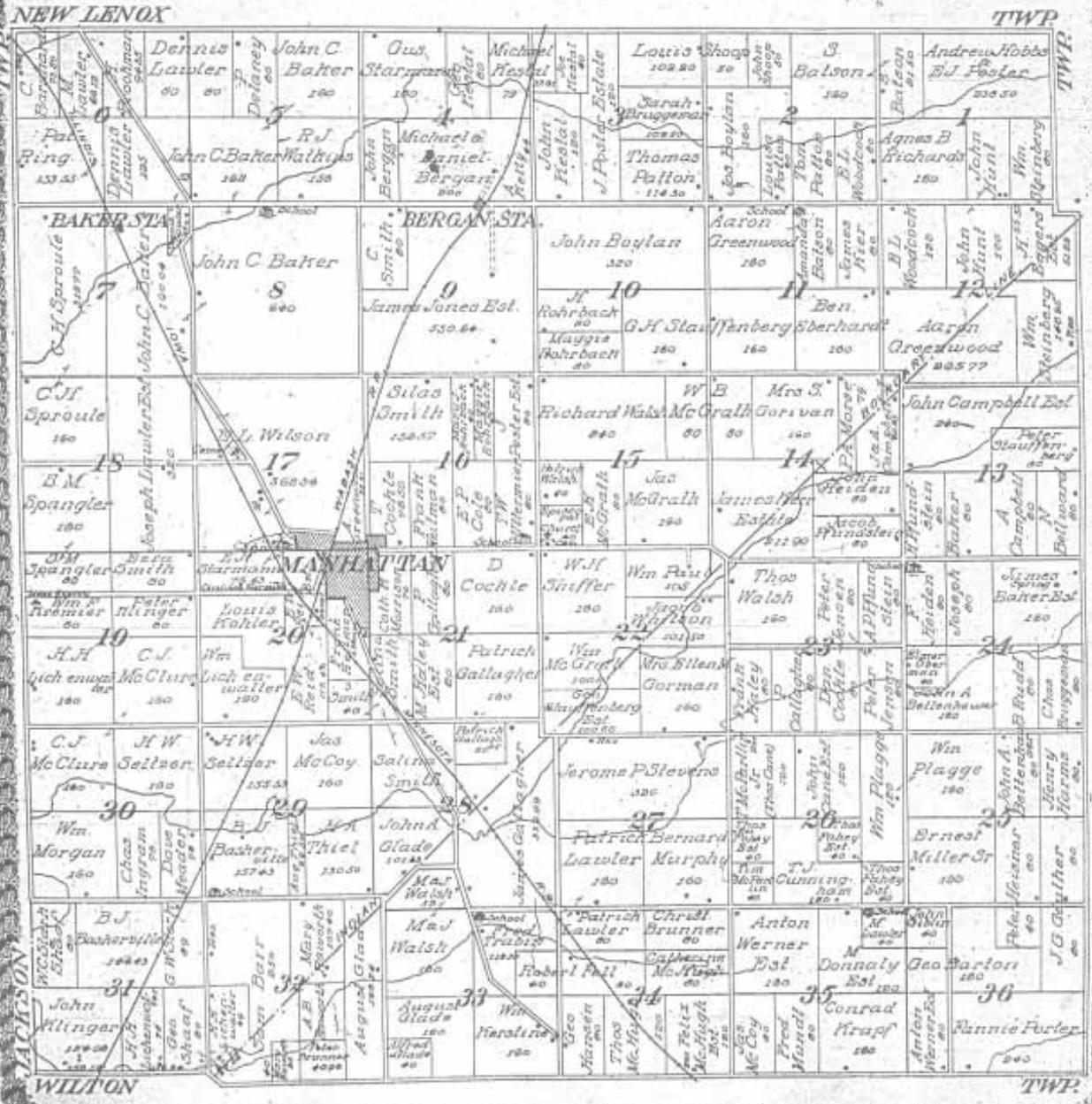
of the 3rd Principal Meridian.



Manhattan Township, 1893.

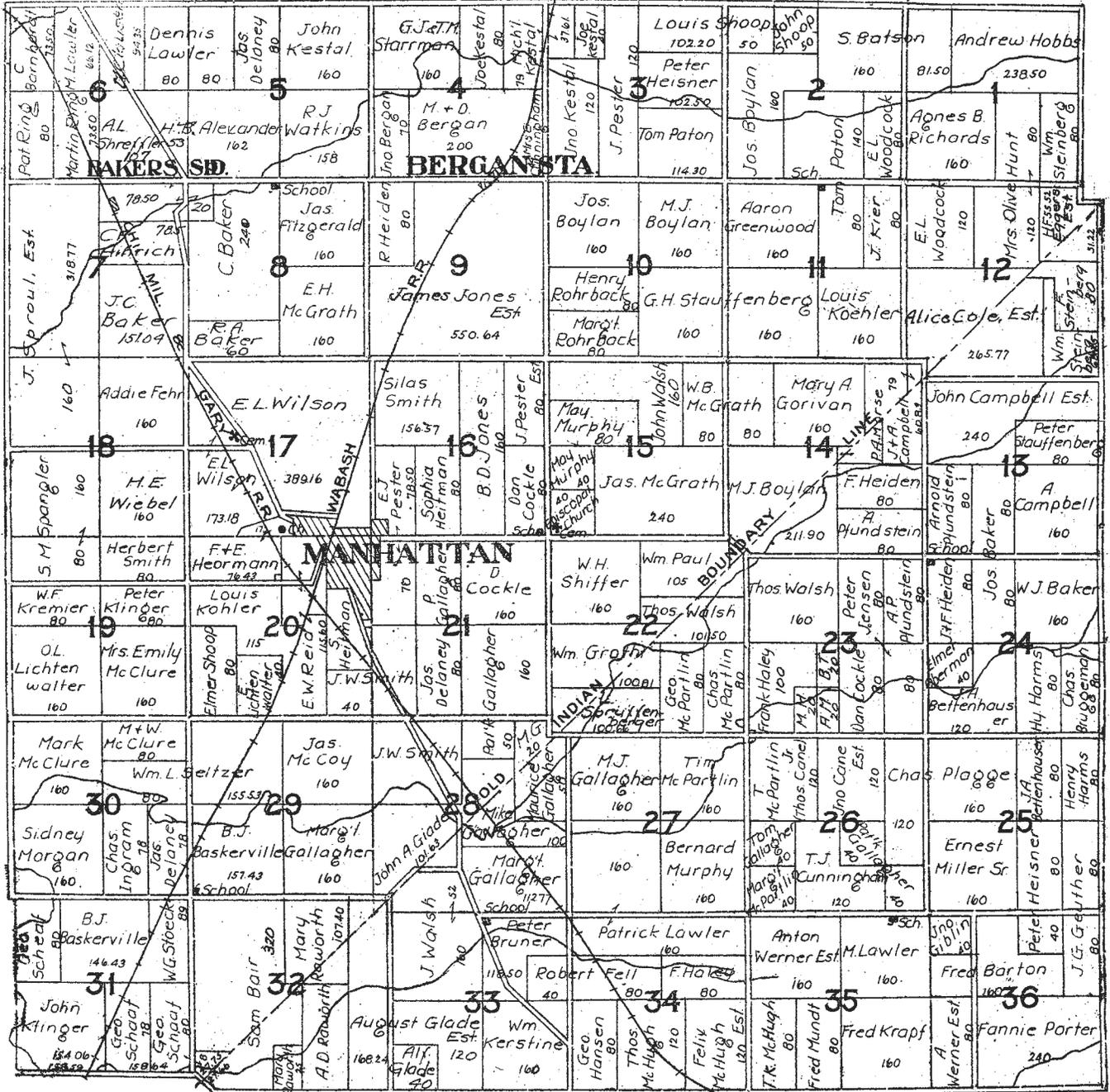

  
**MAP OF**  
**MANHATTAN**  
 TOWNSHIP  
 Scale 2 inches to 1 mile

Township 34 North, Range 11 East of the 3rd P. M.



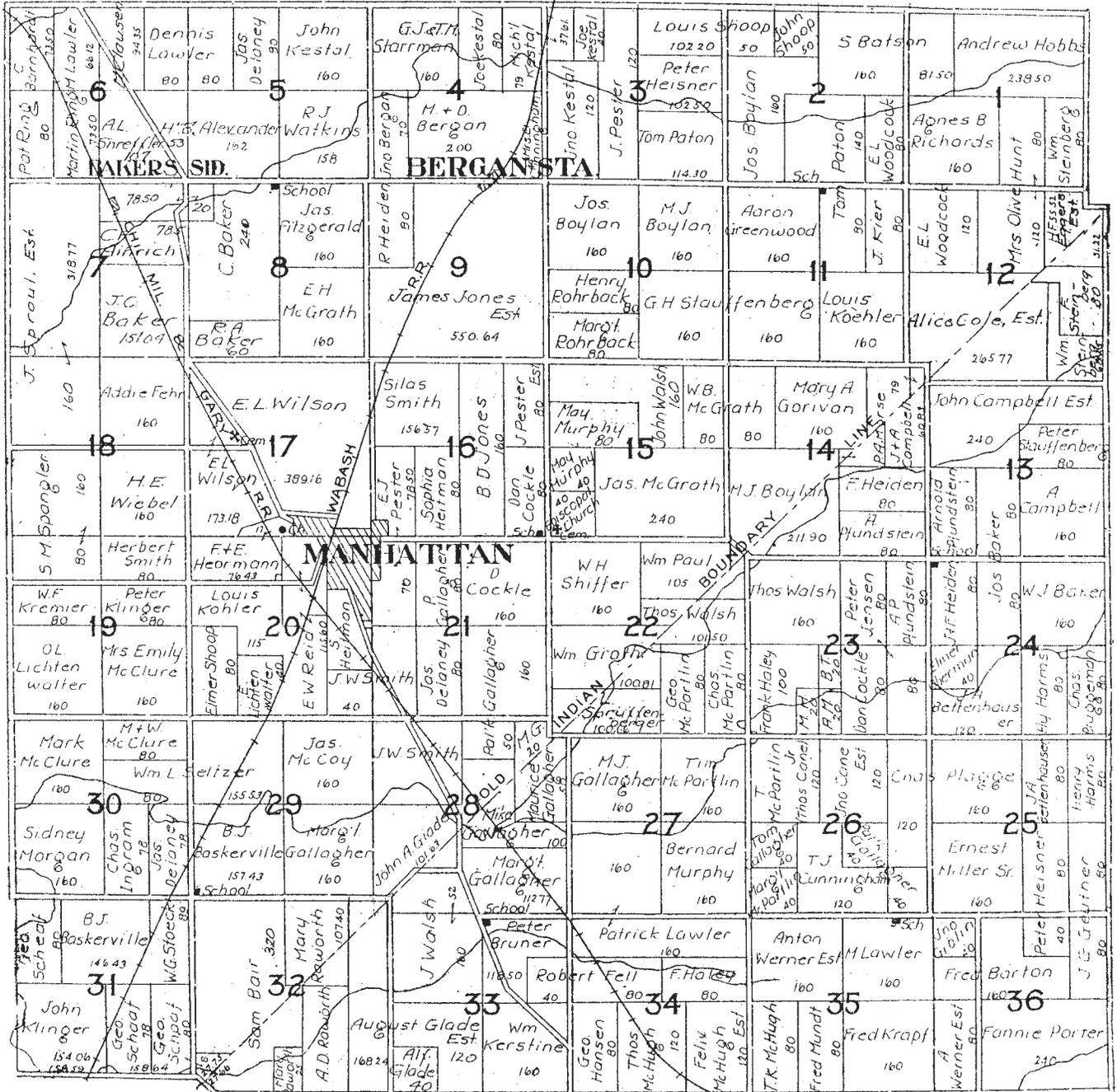
Manhattan Township, 1909.

# T.34N. MANHATTAN R.11E.



Manhattan Township, circa 1920.

# T.34N. MANHATTAN R.11E.

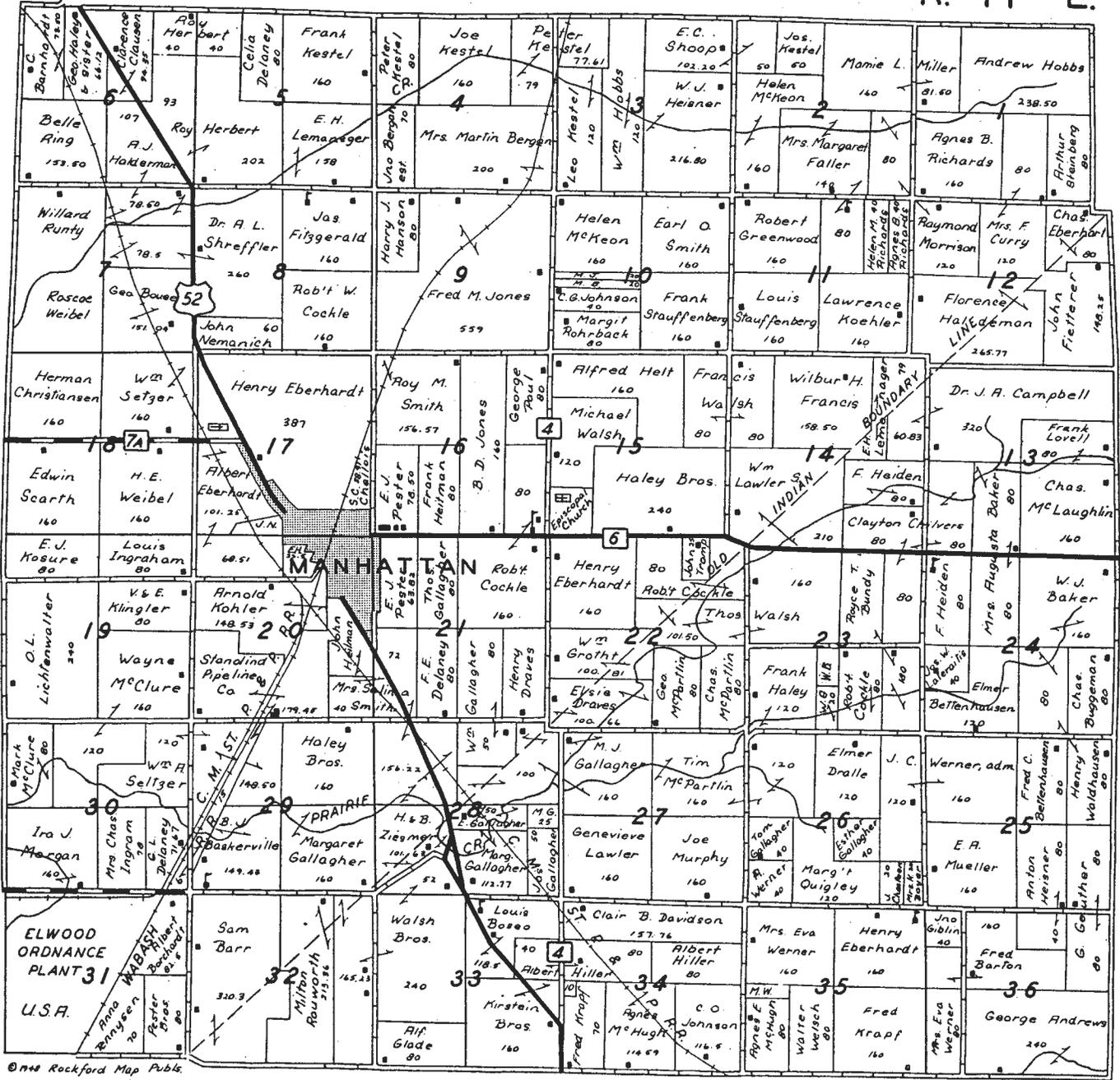


Manhattan Township, circa 1928.

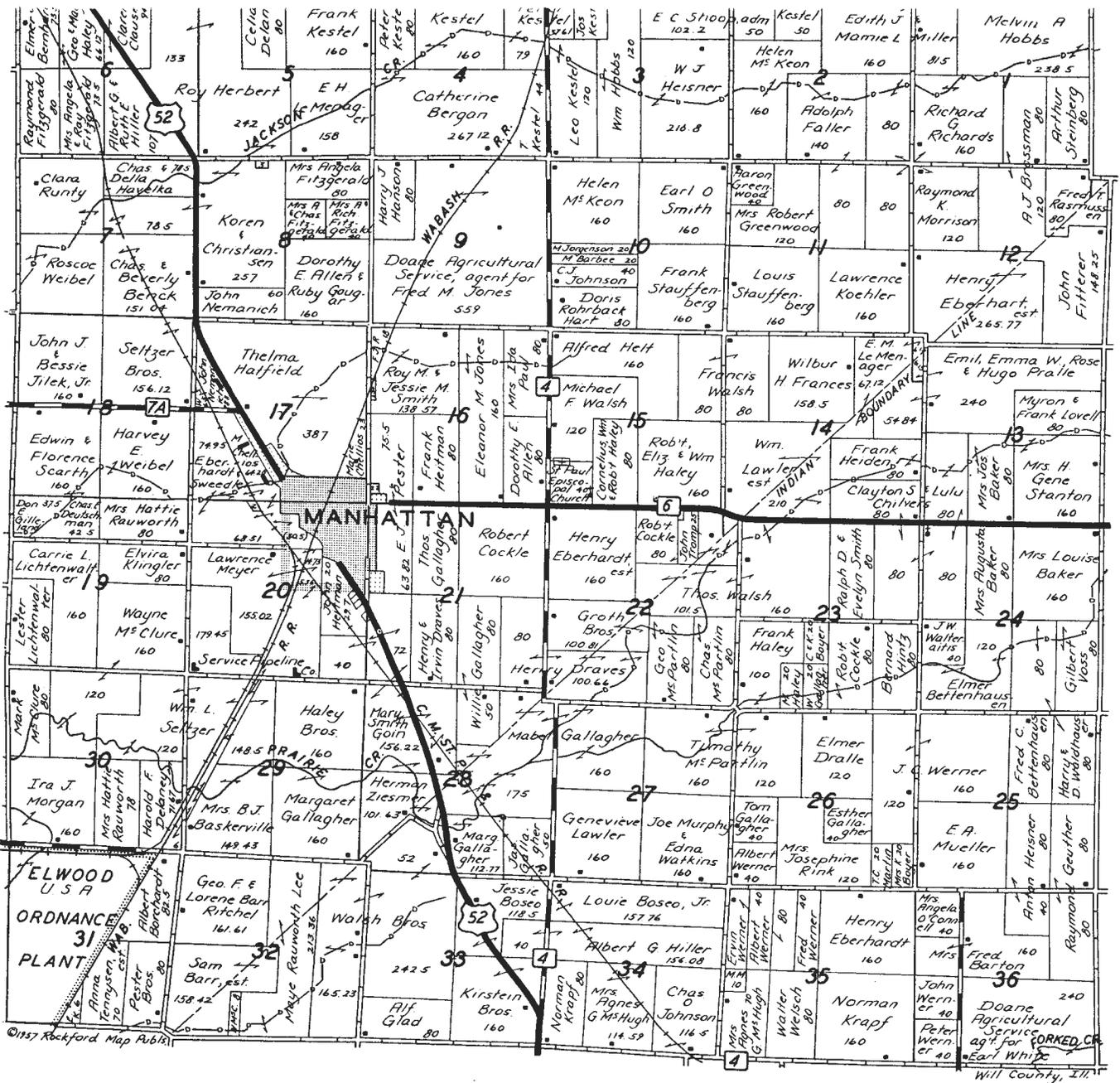


Manhattan Township, circa 1942.

T. 34 N. MANHATTAN R. 11 E.



Manhattan Township, 1948.

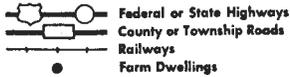


Manhattan Township, 1957.

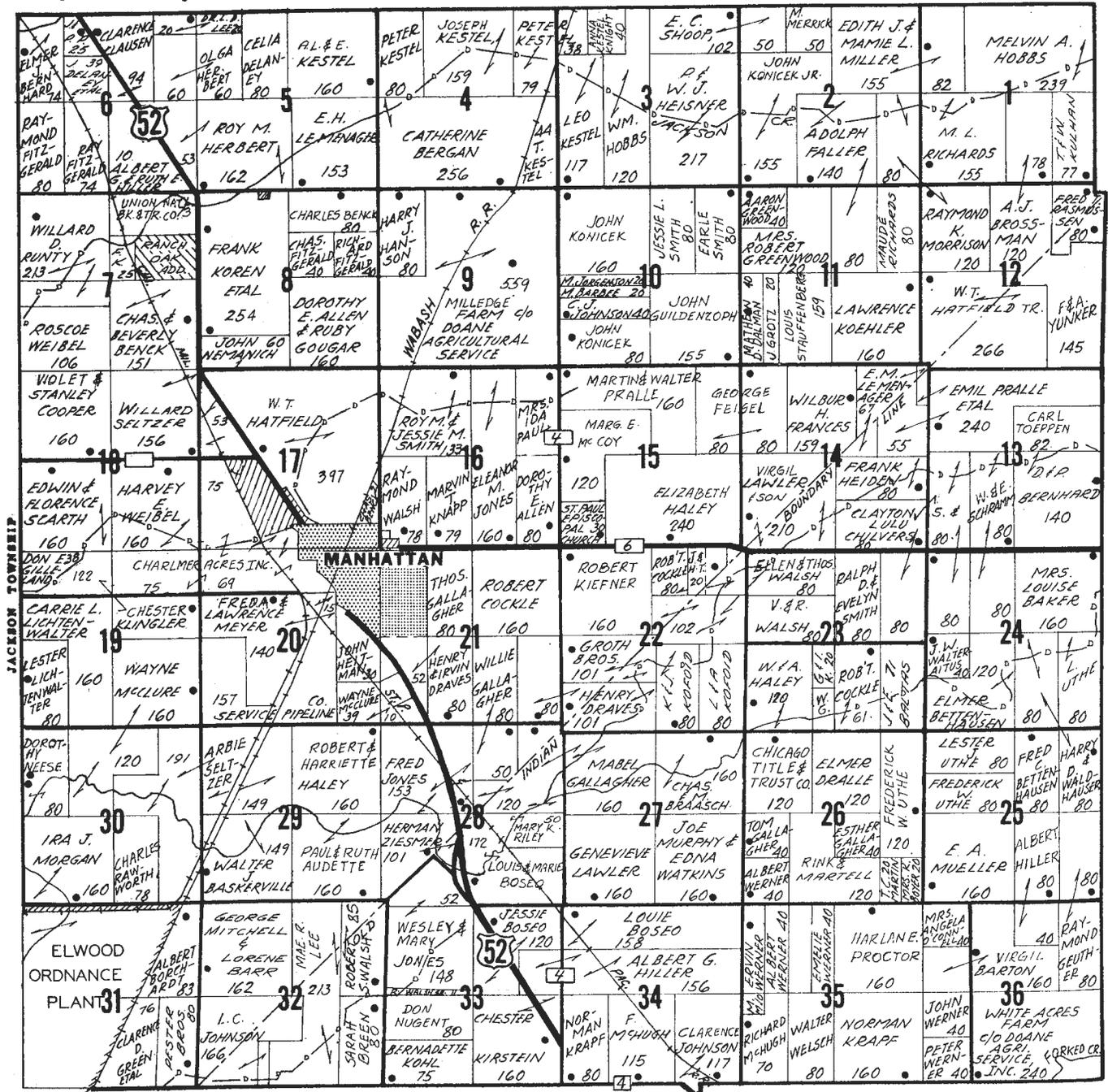


TOWNSHIP 34-NRANGE 11-E

MANHATTAN



NEW LENOX TOWNSHIP



COPYRIGHT MCLXX COUNTY PLAT & DIRECTORY CO., INC.

WILTON TOWNSHIP

Manhattan Township, 1970.





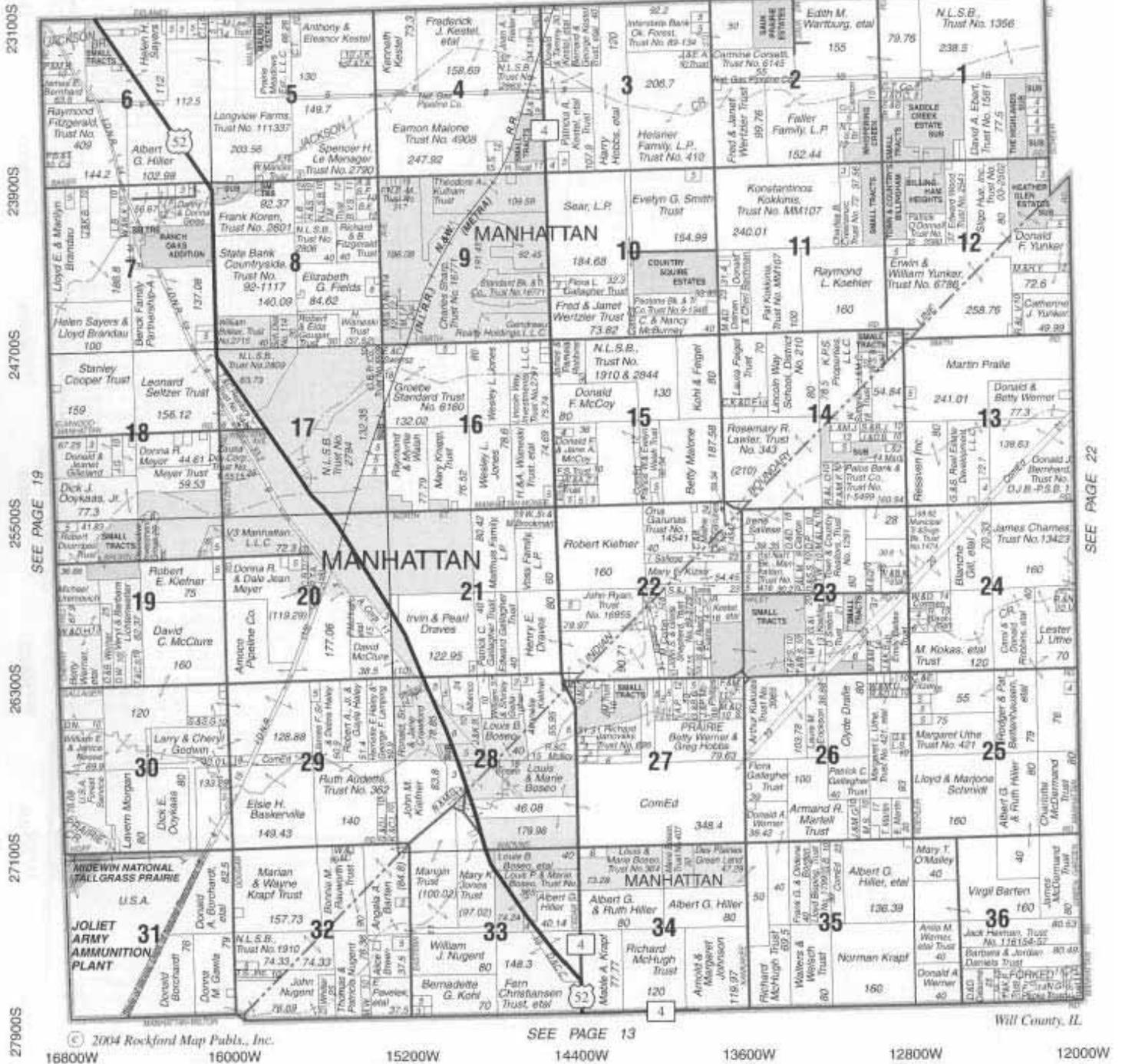




# MANHATTAN

# T.34N.-R.11E.

SEE PAGE 31



Manhattan Township, 2004.

## **APPENDIX B**

### **AERIAL PHOTOGRAPHY**

This appendix contains historic aerial photography of the survey area. This series of photographs is dated 1939 and was obtained online at the Illinois Natural Resources Geospatial Data Clearinghouse (<http://www.isgs.uiuc.edu/nsdihome>)



Sections 1 and 12. Aerial  
photograph dated  
6 September 1939.  
(BXX-2-92)



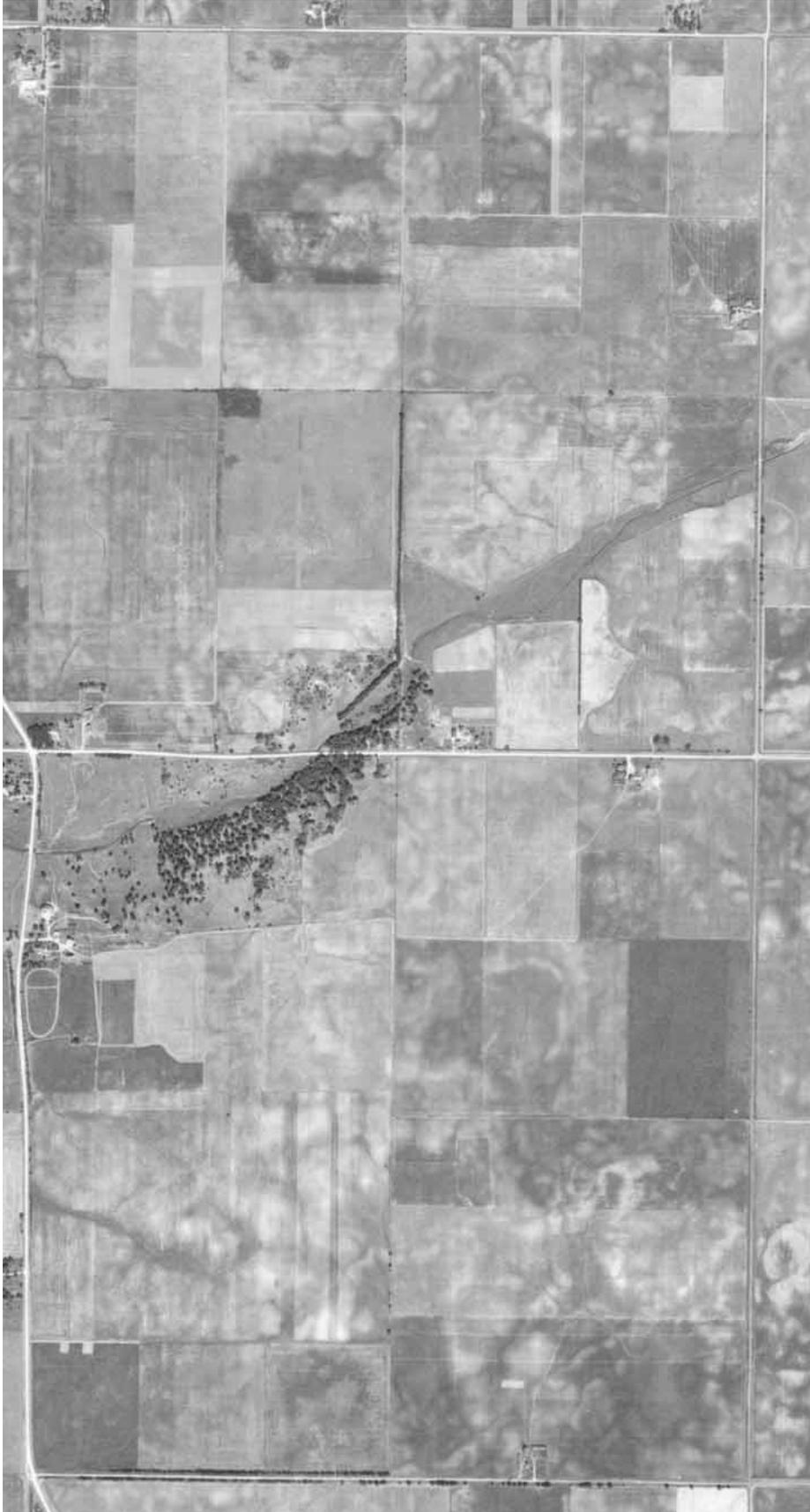
Sections 2 and 11. Aerial  
photograph dated  
6 September 1939.  
(BXK-2-91)



Sections 3 and 10. Aerial  
photograph dated  
6 September 1939.  
(BXK-2-90)



Sections 4 and 9. Aerial  
photograph dated  
6 September 1939.  
(BXK-2-89)



Sections 5 and 8. Aerial  
photograph dated  
6 September 1939.  
(BXK-2-88)



Sections 6 and 7. Aerial  
photograph dated  
6 September 1939.  
(BXK-2-87)



Sections 13 and 24. Aerial  
photograph dated  
4 August 1939.  
(BXK-1-106)



Sections 14 and 23.  
Aerial photograph  
dated  
4 August 1939.  
(BXK-1-107)



Sections 15 and 22.  
Aerial photograph  
dated  
4 August 1939.  
(BXK-1-109)



Sections 16 and 21.  
Aerial photograph dated  
4 August 1939.  
(BXK-1-110)



Sections 17 and 20.  
Aerial photograph dated  
4 August 1939.  
(BXK-1-111)



Sections 18 and 19.  
Aerial photograph dated  
4 August 1939.  
(BXK-1-113)



Sections 30 and 31.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-4)



Sections 29 and 32.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-5)



Sections 28 and 33.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-6)



Sections 27 and 34.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-7)



Sections 26 and 35.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-8)



Sections 25 and 36.  
Aerial photograph dated  
13 July 1939.  
(BXK-4-9)

## APPENDIX C

### SURVEY MAPS

The following maps were generated as part of this study using ArcGIS software. The background aerial photography and baseline maps were downloaded from the Illinois Natural Resources Geospatial Data Clearinghouse internet site, <http://www.isgs.uiuc.edu/nsdihome/>. The aerial photography of the survey area is dated 2005.

This appendix contains:

- Key list of sites with ID number
- Map 1 – Will County Key Map
- Map 2 – Overview of Survey
- Map 3 – Existing Houses (by type)
- Map 4 – Existing Barns (by type)
- Map 5 – Significance of Sites
- Map 6 – Proposed Manhattan-Green Garden Rural Heritage District
- Map 7 – Proposed Midewin National Tallgrass Prairie Rural Buffer District

## Key to Properties by Map ID Number

<b>ID</b>	<b>PIN Number</b>	<b>Address</b>	<b>Name</b>
155	12-06-100-027	Cherry Hill Road	Nolan-Bernhard farm
156	12-06-100-024	23140 U.S. Route 52	Brophy-Lawler farm
157	12-06-200-020	23211 U.S. Route 52	
158	12-06-200-006	16003 Delaney Road	Lawler farm
159	12-05-300-006	15920 Baker Road	
160	12-05-200-006	23404 Eastern Avenue	Baker-Kestel farm
161	12-05-400-004	15520 Baker Road	Watkins-LeMenager farm
162	12-04-400-006	14646 Baker Road	Bergan farm
163	12-03-300-007	14310 Baker Road	Olney-Kestel farm
164	12-03-200-009	23160 Kankakee Road	Schoop farm
165	12-03-200-008	23410 Kankakee Road	Bruggeman-Heisner farm
167	12-02-300-003	13220 Baker Road	Paton-Faller farm
169	12-11-100-001	13459 Baker Road	Greenwood tenant farm
170	12-10-200-004	13635 Baker Road	John Boylan farm
171	12-01-100-001	23305 Schoolhouse Road	Barton-Miller farm
173	12-01-401-016	12040 Baker Road	Kitzrow-Steinberg farm
174	12-12-200-009	23900 Scheer Road	
175	12-01-400-015	12260 Baker Road	Hunt-Brossman farm
176	12-06-300-005	23741 Cherry Hill Road	Ring farm
177	12-01-300-010	23745 Schoolhouse Road	Richards farm
178	12-12-100-003	12717 Baker Road	Woodcock-Morrison farm
179	12-12-300-002	24323 Schoolhouse Road	Greenwood farm
180	12-12-200-004	24150 Scheer Road	
181	12-11-400-001	24340 Schoolhouse Road	
182	12-11-300-006	24501 Kankakee Road	Stauffenberg farm
183	12-14-100-004	Kankakee Road	McGrath farm
184	12-10-400-011	13700 Smith Road	Stauffenberg farm
185	12-09-200-008	Cedar Road	James Jones farm
186	12-10-300-014	24435 Cedar Road	
188	12-10-100-002	23925 Cedar Road	Joseph Boylan farm
189	12-09-200-006	Baker Road	Jones tenant farm
190	12-09-100-005	15051 Baker Road	
191	12-08-200-007	15341 Baker Road	Fitzgerald farm

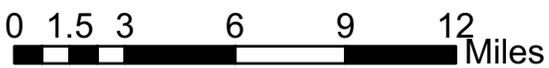
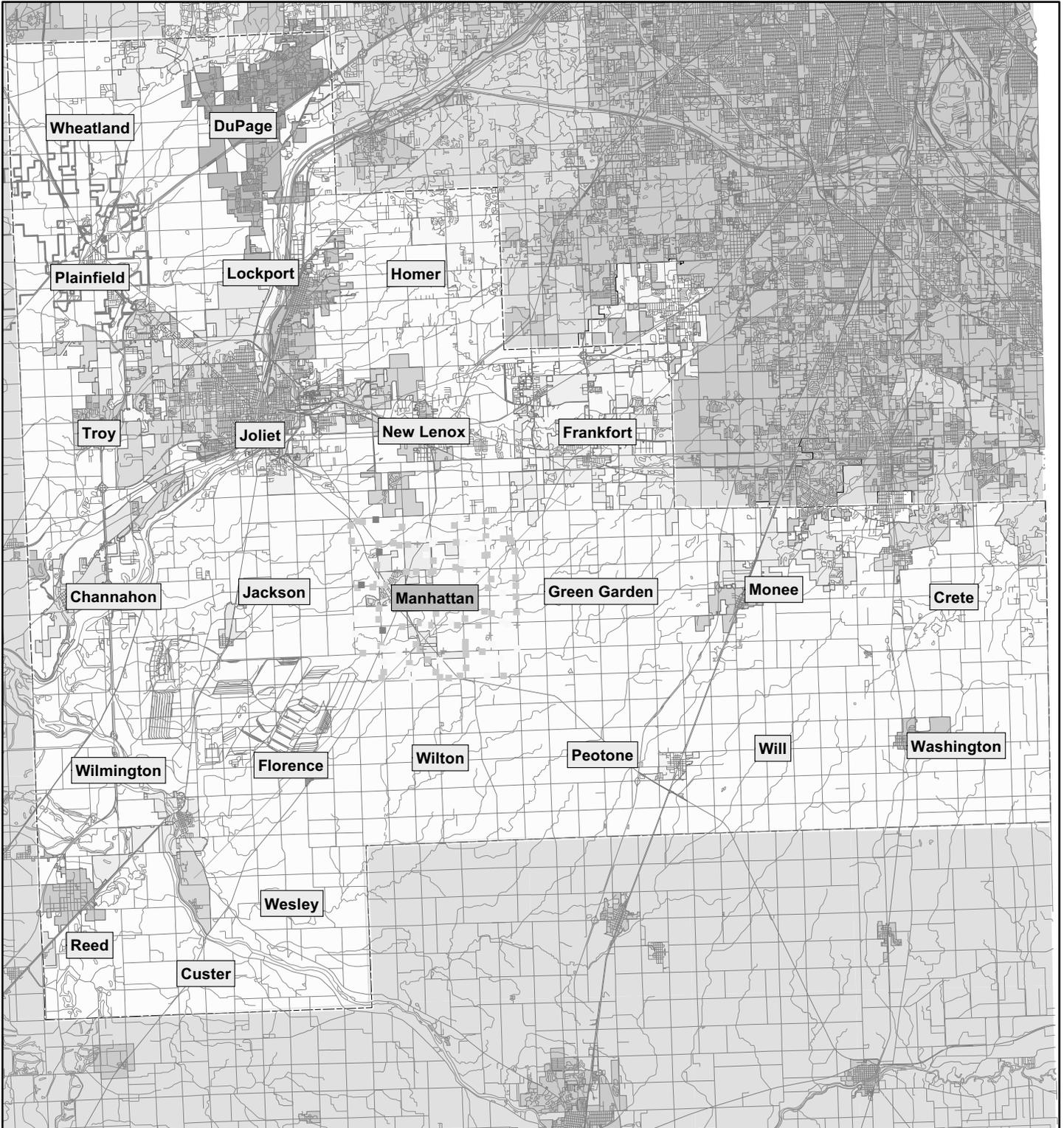
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192	12-08-400-006	Smith Road	
193	12-07-400-003	U.S. Route 52	Russell–Baker farm
194	12-08-100-006	24115 U.S. Route 52	Baker–Koren farm
196	12-07-100-010	16611 Baker Road	Sproule farm
197	12-18-300-005	16629 Elwood-Manhattan Road	Spangler farm
198	12-18-100-002	16462 Elwood-Manhattan Road	Baskerville farm
199	12-18-400-011	16155 Elwood-Manhattan Road	Whitson–Weibel farm
200	12-18-200-001	16040 Elwood-Manhattan Road	Seltzer farm
201	12-17-100-008	15828 Elwood-Manhattan Road	
203	12-16-100-001	24715 Eastern Avenue	
204	12-16-100-004	14855 Smith Road	Silas Smith farm
205	12-16-200-009	24750 Cedar Road	
206	12-15-100-004	24725 Cedar Road	Walsh–Helt farm
209	12-16-400-003	25410 Cedar Road	Uttermare farm
211	12-16-300-008	14918 Manhattan-Monee Road	
212	12-16-300-001	677 Manhattan-Monee Road	Cockle–Pester farm
215	12-15-400-005	13920 Manhattan-Monee Road	
217	12-14-400-014	25252 Schoolhouse Road	Metzger–Heiden farm
219	12-14-200-016	13125 Smith Road	
221	12-13-100-010	Schoolhouse Road	Campbell farm
222	12-13-300-007	12410 Manhattan-Monee Road	Tucker–Baker farm
223	12-13-200-012	24960 Scheer Road	Stauffenberg farm
224	12-13-400-002	25145 Scheer Road	
226	12-17-100-001	24959 Gougar Road	
227	12-19-300-009	26025 Cherry Hill Road	Keller–Lichtenwalter farm
228	12-30-100-006	26511 Cherry Hill Road	David McClure farm
229	12-19-200-005	25752 Gougar Road	Ezra Smith farm
230	12-19-400-001	26056 Gougar Road	Cornelius McClure farm
231	12-29-100-002	26415 Gougar Road	Seltzer–Godwin farm
232	12-30-400-008	26840 Gougar Road	Hare & Meader farm
233	12-29-300-001	26955 Gougar Road	Jaynes–Baskerville farm
234	12-31-200-003	16065 Hoff Road	
235	12-32-100-005	27345 Gougar Road	Barr farm
236	12-32-300-006	27625 Gougar Road	
237	12-31-400-005	27828 Gougar Road	Geiss–Schaaf farm

<b>ID</b>	<b>PIN Number</b>	<b>Address</b>	<b>Name</b>
238	12-30-300-004	16546 Hoff Road	Morgan farm
239	12-20-103-005	15635 Brown Road	Kohler farm
240	12-29-200-003	15315 Bruns Road	McCoy-Haley farm
241	12-29-400-004	15360 Hoff Road	
242	12-28-300-006	14944 Hoff Road	
243	12-28-300-008	27010 U.S. Route 52	Walsh house
244	12-28-300-011	27025 U.S. Route 52	
245	12-33-200-005	27305 U.S. Route 52	Trabing-Boseo farm
246	12-32-200-008	15525 Hoff Road	Barr-Rauworth farm
247	12-32-200-006	27412 Walsh Road	August Glade farm
248	12-32-400-006	27540 Walsh Road	Glade farm
249	12-33-300-005	27845 Walsh Road	Alfred Glade house
250	12-33-400-004	27640 U.S. Route 52	Kirstein farm
251	12-34-300-001	27827 U.S. Route 52	Hansen-Krapf farm
252	12-34-100-003	27317 Cedar Road	Fell-Hiller farm
253	12-34-100-007	14255 Pauling Road	Fell-Boseo farm
254	12-21-300-004	14830 Bruns Road	Haley farm
257	12-21-400-002	13720 Bruns Road	Gallagher farm
258	12-28-200-011	14535 Bruns Road	Gallagher farm
259	12-28-200-006	14705 Bruns Road	Gallagher farm
260	12-21-200-004	14435 Manhattan-Monee Road	Cockle farm
261	12-22-100-001	25545 Cedar Road	Young-Eberhardt farm
262	12-22-300-008	25959 Cedar Road	Groth farm
263	12-22-400-005	13850 Bruns Road	David Rudd farm
264	12-22-200-007	13561 Manhattan-Monee Road	
265	12-23-300-010	26125 Kankakee Road	Haley farm
266	12-27-200-010	13763 Bruns Road	Stevens tenant farm
267	12-26-300-008	26811 Kankakee Road	Fahey-Gallagher farm
268	12-26-300-005	26945 Kankakee Road	McPartlin-Werner farm
269	12-35-100-001	27155 Kankakee Road	Noble-Werner farm
270	12-35-300-005	27545 Kankakee Road	McCoy-McHugh farm
271	12-34-400-004	13744 Offner Road	McHugh-Johnson farm
272	12-34-300-003	14104 Offner Road	McHugh farm
273	12-23-400-012	12949 Haley Road	
274	12-24-300-009	26001 Schoolhouse Road	Oberman farm

<b>ID</b>	<b>PIN Number</b>	<b>Address</b>	<b>Name</b>
275	12-24-200-001	12017 Manhattan-Monee Road	
276	12-24-400-004	26000 Scheer Road	Bruggeman farm
277	12-24-300-003	12444 Bruns Road	Bettenhausen tenant farm
278	12-25-200-004	12305 Bruns Road	John A. Bettenhausen farm
279	12-25-200-006	26350 Scheer Road	Harms farm
280	12-25-400-002	12030 Pauling Road	Geuther farm
281	12-25-300-001	26915 Schoolhouse Road	Miller [Mueller] farm
282	12-26-200-017	26636 Schoolhouse Road	Plagge farm
283	12-26-200-001	13151 Bruns Road	Cane-Dralle farm
284	12-35-200-003	13055 Pauling Road	
285	12-35-400-001	12950 Offner Road	Krapf farm
286	12-36-400-010	12460 Offner Road	White farm
287	12-36-100-003	27325 Barten Road	Barten farm
288	12-23-100-004	25653 Kankakee Road	
289	12-14-300-001	25335 Kankakee Road	
291	12-27-300-001	14220 Pauling Road	
312	12-02-300-003	Baker Road	Paton School

# MANHATTAN TOWNSHIP

## Map 1 - Will County Key Map



**MANHATTAN TOWNSHIP**

**Map 2 - Overview of Survey**

**Farmstead Sites**

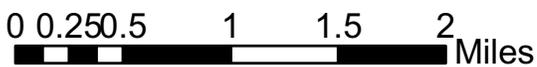
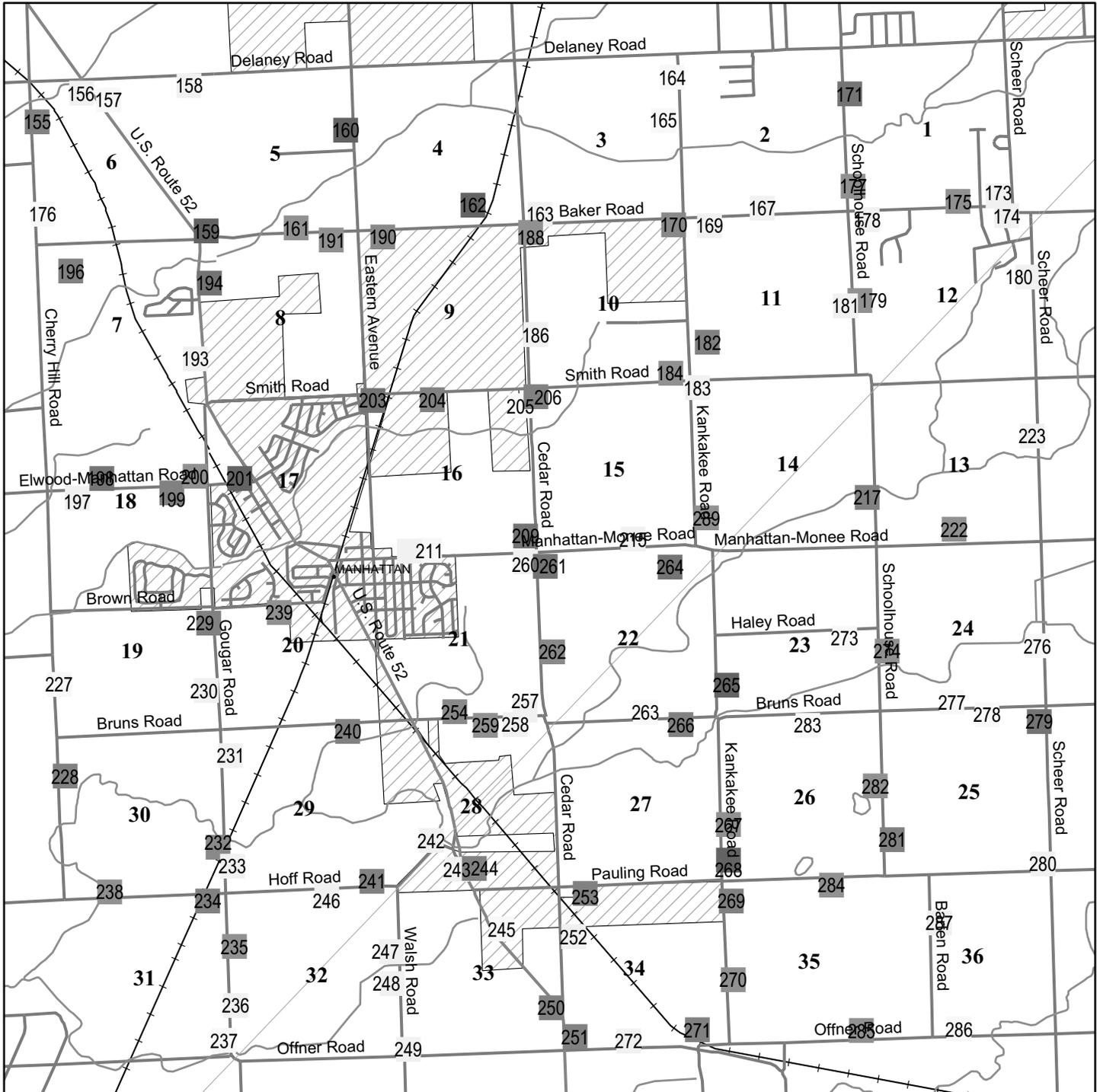
- Existing Sites (I.D. number)
- × Former Sites Demolished (1988 survey number)



# MANHATTAN TOWNSHIP

## Map 3 - Existing House Types

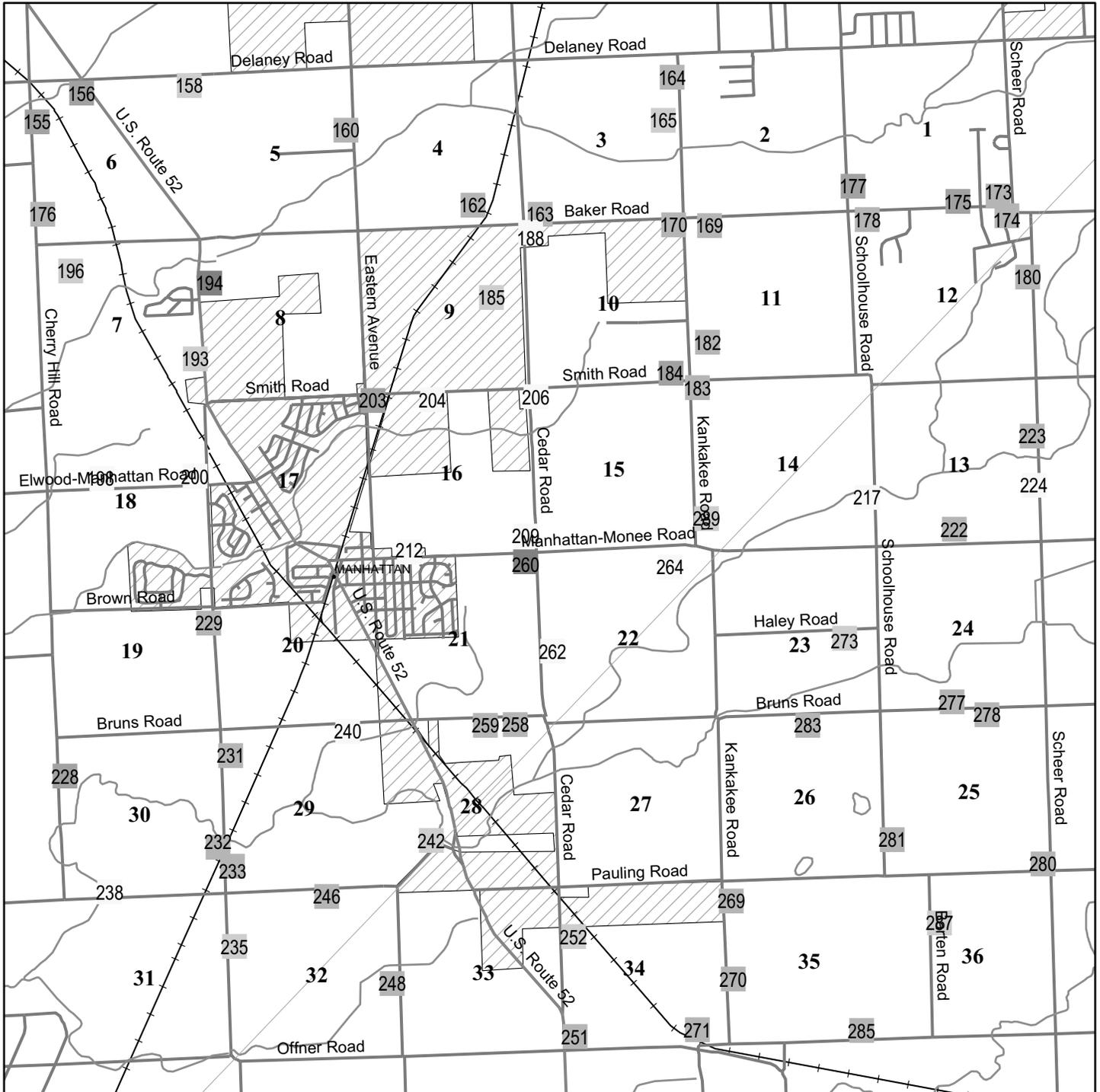
- Upright and wing
  - Gabled Ell
  - Four over Four
- American Foursquare
  - Bungalow
  - Other types
  - Contemporary types



# MANHATTAN TOWNSHIP

## Map 4 - Existing Barn Types

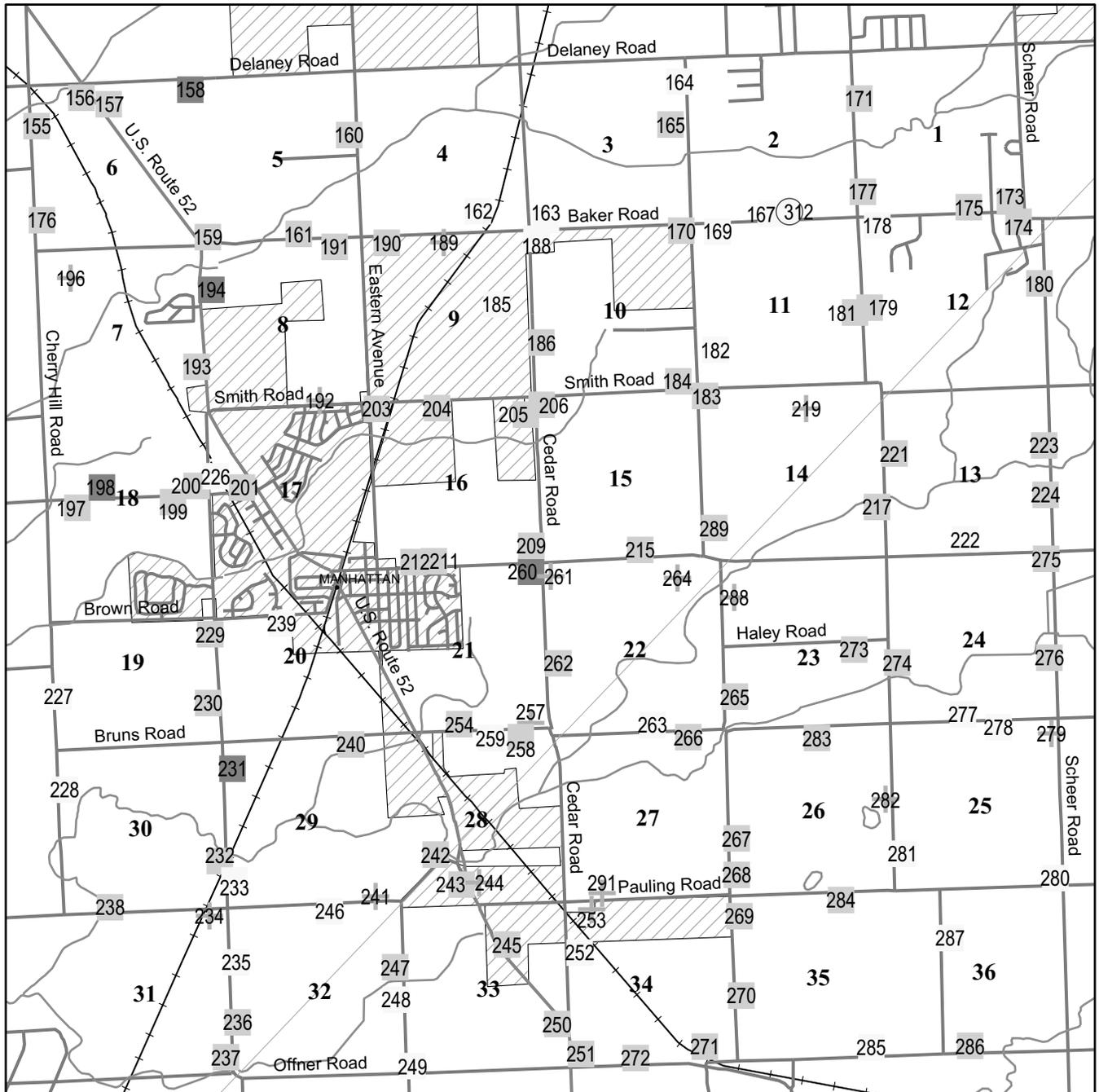
- Three-bay threshing
  - Dairy
- Round barn
  - Plank frame
  - Other Types



# MANHATTAN TOWNSHIP

## Map 5 - Historical Significance

-  National Register potential
-  Local landmark
-  Local landmark potential
-  Contributing
-  Non-contributing



0 0.25 0.5 1 1.5 2 Miles

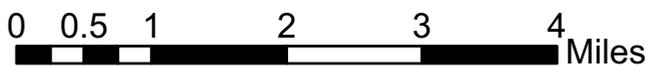
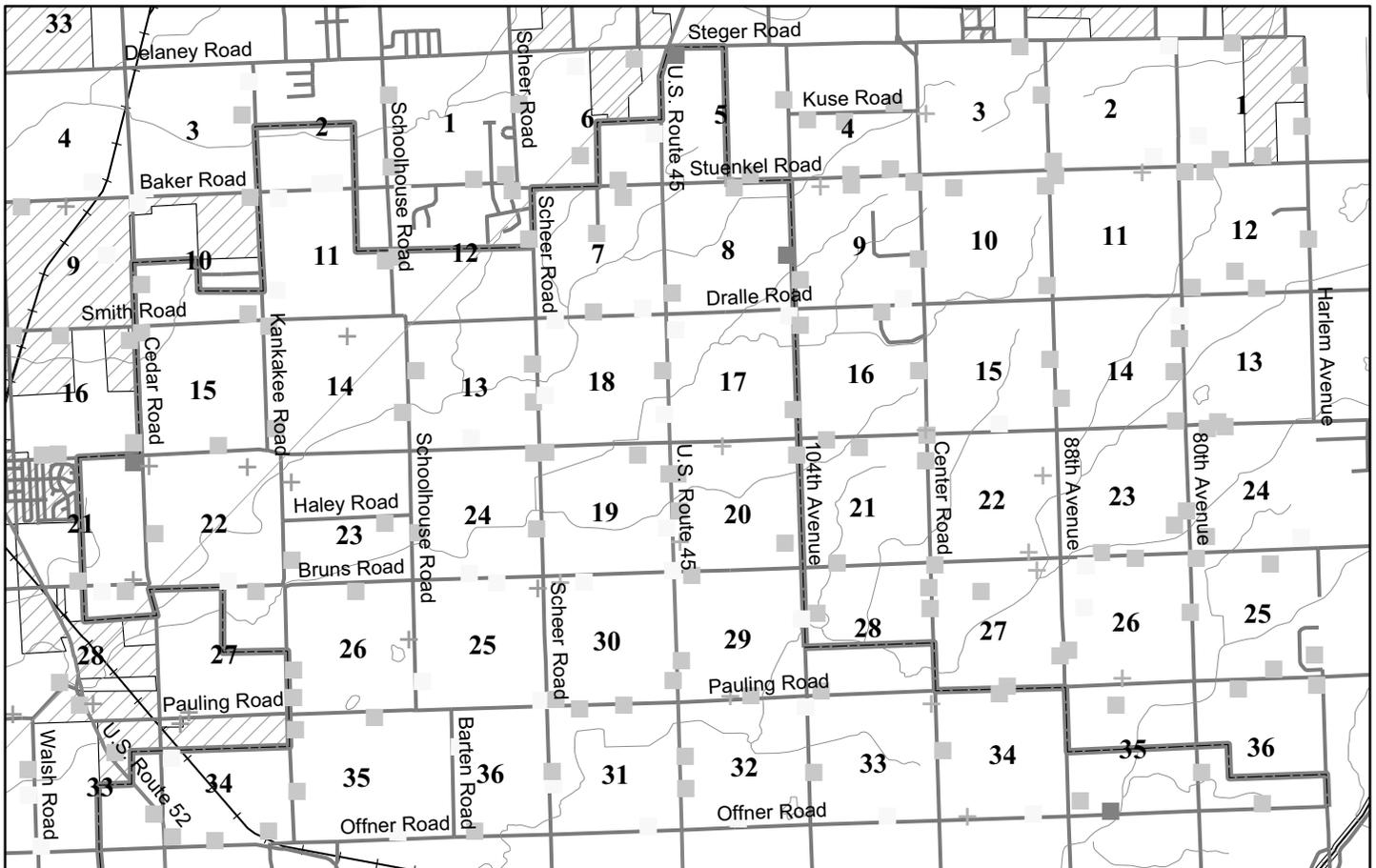


# MANHATTAN TOWNSHIP

## Map 6 - Proposed Manhattan-Green Garden Rural Heritage District

This district could be extended southward into Peotone and Wilton Townships.

Refer to the 2004 survey report for details regarding sites in Green Garden Township.



# MANHATTAN TOWNSHIP

## Map 7 - Proposed Midewin National Tallgrass Prairie Rural Buffer District

This district should include adjacent areas of Jackson and Wilton Townships.  
A final determination of boundaries should await the survey of those townships.

