STREET & NUMBER

CITY, TOWN

UNITED STATES DEPARTMENT OF THE INTERIOR N

NATIONAL REG INVENTOR

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NAME				
HISTORIC	Goodsell Observat	ory (New Observato	ory)	
AND/OR COMMON	· · · · · · · · · · · · · · · · · · ·			
- 1	Goodsell Observat	ory		
LOCATION			A	
STREET & NUMBER				
	Carleton College	Contrio	NOT FOR PUBLICATION	
CITY, TOWN			CONGRESSIONAL DISTR	ICT
	Northfield —	VICINITY OF	First	
STATE	Minnesota	CODE 27	COUNTY	131
	TION			
CATEGORY	OWNERSHIP	STATUS	PRES	ENTUSE
DISTRICT	PUBLIC	XOCCUPIED	AGRICULTURE	MUSEUM
X_BUILDING(S)	X_PRIVATE	UNOCCUPIED	COMMERCIAL	PARK
STRUCTURE	BOTH	WORK IN PROGRESS	X_EDUCATIONAL	PRIVATE RESIDENCI
SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECT	IN PROCESS	XYES: RESTRICTED	GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	YES: UNRESTRICTED	INDUSTRIAL	TRANSPORTATION
		NO	MILITARY	OTHER:
OWNER OF	PROPERTY	a		
NAME	Carleton College			
STREET & NUMBER			· · · · · · · · · · · · · · · · · · ·	
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CITY, TOWN			STATE	

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE, REGISTRY OF DEEDS, ETC. Register of Deeds, Rice County Courthouse

218 Northwest 3rd Street

Faribault

STATE Minnesota

DATA SHEET

6 REPRESENTATION IN EXISTING SURVEYS TITLE

	Statewide Historic S	ites Survey	
DATE	1974	FEDERAL X_STATECOUNTYLOCAL	
DEPOSITORY FOR SURVEY RECORDS	Minnesota Historical	Society Bldg. 25, Fort Snelling	
CITY, TOWN	Saint Paul	state Minnesota	

7 DESCRIPTION

CONDITION

XEXCELLENT	DETERIORATED	XUNALTERED	· · · · ·		SITE
GOOD	RUINS	ALTERED		MOVED	DATE
FAIR	UNEXPOSED		ć .		

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

CHECK ONE

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<u>Goodsell Observatory</u> is located on the western edge of the Carleton College campus, thirty feet above the flowage of Silver Creek known as Lyman Lakes.

Constructed in 1887 from the designs of J. Walter Stevens, a St. Paul, Minnesota architect, the building is a one and two story masonry structure. Designed in the Romanesque Revival style, the building is a series of two masses connected by a short one story space. One observatory is located in each section. St. Louis red brick is the primary exterior surfacing material with Lake Superior red sandstone utilized for window capping, cornice trim and base treatment.

Since the building has undergone such minor alteration (none to the exterior and minor to the scientific equipment and interior spaces) the following description of the building and its furnishings will be utilized. Where alterations have taken place or special comments are in order, they will be so noted in parenthesis. The descriptions are taken from January and October issues of the 1888 <u>Sidereal</u> <u>Messenger</u> published at the observatory.

"In excavating for the foundation of the building, the soil was found to be clay and loam to the depth of ten feet, and below this was a thick stratum of coarse gravel in which was placed the footing of all piers for the astronomical instruments. These piers are stone and cement laid in solid masonry, and stand wholly independent of the building and of the ground to their respective bases."

"The length of the building, east and west, is 80 feet; north and south, 100 feet. The material of the outer walls is the St. Louis red brick and the trimming and finish are the Lake Superior red sand stone. The clock-room is on the first floor of the main building, and is 27 feet in diameter. The large circular pier for the 16-inch equatorial is in the middle of this room, suitably cased to the height of $7\frac{1}{2}$ feet and provided with shelves and glass doors for the display of specimens of meteors, astronomical photographs, and other objects of interest to the science. Opposite the doors leading to the east and west wings from the clock-room, large recesses were made in the equatorial pier in which are hung the sidereal and mean time clocks, the former facing the door of the east wing or Meridian Circle room, and the latter the door of the west wing, or Astronomical Library. The cases for these clocks are made of cherry and neatly carved, and they form part of the general case before mentioned. By this arrangement, it is believed that the clocks are placed as favorably as possible, at small expense, for temperature and stability of position. They are twelve feet apart, on nearly opposite portions of this solid stone pier, and hence synchronization was not expected, and no evidence of it has been noticed during the last year. The clock-room is provided with good heating apparatus, by which nearly uniform temperature can be maintained in very cold weather. As an experiment to save fuel as such times, four inch tubes were laid in the pier leading from the basement where the steam heating apparatus is, to the recesses, or air chambers behind the clocks, so that a determinate quantity of heat could be carried to these chambers if troublesome irregularities of temperature should occur in the larger clock-room without. The attempt to supply heat in this way has not yet been tried, as the ordinary radiators of the clock-room have been, so far, amply sufficient for the varying temperatures of one Minnesota winter, with only ordinary care. This is known by systematic records of thermometers placed inside the clock cases. Though not yet carefully tested there is little

(see continuation sheet)

PERIOD	A	REAS OF SIGNIFICANCE CI	HECK AND JUSTIFY BELOW	
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	X_SCIENCE
1500-1599	AGRICULTURE	ECONOMICS	XLITERATURE	SCULPTURE
	ARCHITECTURE	X_EDUCATION	MILITARY	
1700-1799	ART	X_ENGINEERING	MUSIC	THEATER
<u>X</u> 1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	TRANSPORTATION
1900-	X_{-} COMMUNICATIONS		POLITICS/GOVERNMENT	OTHER (SPECIFY)
			v v 2	Se de la companya de

SPECIFIC DATES 1882, 1878, 1887

SIGNIFICANCE

BUILDER/ARCHITECT J. Walter Stevens St. Paul, Minnesota

STATEMENT OF SIGNIFICANCE

Built in 1887, <u>Goodsell Observatory</u> is the second of two astronomical observatories constructed at Carleton College; a small midwestern literal arts school which is most noted for being the educational home of the world renown economist, Thorsen Veblen.

The building is significant for three main reasons. First, it is a complete intact and basically unchanged 19th century astrononical laboratory, the only one known to survive in this condition in Minnesota and one of the few in the country. Most noteworthy is the vast array of scientific equipment still in use within the confines of the building which is either original to the building or which was transferred to the building from the old 1878 observatory. The latter includes, among other equipment, the 8" Alvan clock refractor telescope and the Byrne portable equatorial telescope. The two chief pieces of equipment, original to the present building and which are also still in use, are the 16 inch Brasher visual refractor telescope and the 5 inch Meridian circle. The former is the largest of its type in Minnesota and the latter was given to the school through a donation by James J. Hill, the founder of the Great Northern Railroad. The donation of the latter was also one of the major factors behind the construction of the present building as the old observatory could not accommodate this equipment.

Secondly, the building is significant for being the official Time Station from 1887 to the 1930s for all of Minnesota and most of the upper mid and northwest portion of the country. It was one of a few such stations operating throughout the country at the turn of the century. This practice served all railroad traffic as well as most communities and many private businesses as the central point for correct time. The telegraph equipment, the sidereal and central mean clocks and all supportive equipment are still intact with most of it still in use by the school. The time station began at the school in 1877 or 1878, as keeper of standard time for the state. In the 1880s the service expanded beyond the state's boundaries. In 1887, the service was again greatly upgraded and expanded when it was relocated to the present facility.

The third point of significant is <u>Goodsell Observatory's</u> role in the scientific literary field. The man who is mainly responsible for the conception and realization of the building is William Wallace Payne, a mathematician and astronomer at the school from 1871 to 1907. He is also responsible for the establishment of <u>Popular</u> <u>Astronomy</u>. The publication, begun in 1882 as the <u>Sidereal Messenger</u>, soon gained international recognition as one of the leading professional journals of its day. Renamed <u>Astronomy and Astro-Physics</u> in 1892, it was published jointly with the University of Chicago until 1894 when the journal was divided between the two parties; Carleton College renaming their portion <u>Popular Astro Physical Journal</u>.

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Sidereal Messenger; ed. by William Wallace Payne, pub. by	Carleton College, issue No.59,6
Northfield, 1888.	
History of Rice County, Minn., ed. by Rev. Edward D. Neill	, pub, by Minnésota Historical
Society, Minneapolis, 1882.	F Touch and Oculation (-11)
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A Century of Men and Ideas in Minnesota Congregationalism;	Steem, A.M., pub, by
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Minneapolis, 1956, p. 41.	
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LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STA	ATE OR COUNTY BOUNDARIES
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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM



	Goodsell					
CONTINUATION SHEET	Observatory	ITEM NUMBER	7	PAGE	1	

doubt but that the central massive stone pier has had a favorably modifying influence in steadying the temperature of the clock-room. (Heat is now supplied from the central campus power house). The clocks referred to were made by The E. Howard Clock and Watch Company of Boston, Mass., and are respectively numbered 195 and 196. (The clocks are original to the first observatory, being transferred at the completion of the present facility). At another time a showing of the kind of work these clocks have done will be made as it has been learned from an extended series of observations of stars for fundamental places by the aid of the Repsold Meridian Circle. In this clock-room is also the Chronograph, Chronometer Case containing a Bond Chronometer, No. 374, (Both original to the first observatory.) meteorological instruments and the table of telegraph instruments used in transmitting the daily time signals to railways and cities using the Standard Central Time furnished by the observatory."

"The east wing of the observatory is devoted entirely to the Meridian Circle. (Constructed by Messrs. A. Repsold and Sons, Hamburg, Germany.) It is 27 feet 6 inches north and south, and 22 feet 10 inches east and west, inside measure. From floor to ceiling it is 12 feet 2 inches. The four piers (supporting the instrument) stand on three separate foundations. All have good footing 10 feet below the floor in coarse gravel. They are built of limestone and the best cement. Above the floor each of the piers is covered with heavy felting and finished outside with sherry and ash. At the base below the floor the respective sizes of the piers are as follows:

Central one is 9 feet by 3 feet 6 inches.

The bases of the north and south collimator piers are equal, being 4 feet by 3 feet 6 inches. The cellar is the same size as room above, with good wall 18 inches thick on all sides, with one inside entrance and two outside ventillating windows. The depth of cellar is 8 feet.

The north and south openings of the observing room for the meridian are 26 inches wide, and provided each with two shutters securely held in place by the iron adjustable frame, commonly used in observatories for this purpose, and plainly shown in the cut. There are two doors for the meridian opening in the roof, each about 14 feet long and 3 feet wide outside. These doors are opened easily and quickly by levers of steel 10 feet long and 2 inches in diameter, weighing each about 80 lbs. The doors are hinged to the roof and their weight is partly counterpoised by the weight of the levers so that a pull of 35 lbs is sufficient to open them under any circumstances if clear of snow or sleet."

"The collimating telescopes are 33 inches long, with objectives 2.64 inches in diameter, and the main telescope between the middle piers (in vertical position) is 58 inches long. The object glass was made by A. Clark & Sons, Cambridgeport, Mass., and has a clear aperture of 4.80 inches and a focal length of 57.5 inches. The diameter of the graduated portion of the circles is 21.8 inches. One circle is

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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CONTINUATION SHEET	Observatory	ITEM NUMBER	7	PAGE	2

movable, and is divided to degrees, the other is fixed and divided to two minutes of arc. The circles are each provided with four microscopes having micrometers which measure directly to one second of arc and which are adjusted closely enough to detect an error of one-tenth of a second of arc."

"The west wing contains the library for astronomy and mathematics. (Now subdivided for library and offices.) It is the same size as the Meridian Circle room, 26 by 22 feet and 11 3/4 feet high. On the west and north, there are two rows of small windows, twenty in all, placed high in the walls giving ample light for library purposes and increasing its shelf room very considerably."

"Adjoining the library, on the east, with a door into the hall-way, leading from the clock-room in the main part of the building, is a small study or class-room designed for the accommodation of special students in astronomy or mathematics. (Now used as a tutorial/seminar room.) It is 12 by 18 feet in size and is provided with blackboards of ample size, made of fine, large slabs of the Pennsylvania slate. On the opposite side of the hall, before referred to, is the janitor's room, (now used as office space) 11 by 13 feet. Next to this room is the door-way leading to the basement and the stairs to the second story and the large equatorial observing room. The hall leading to the north from the clockroom, opens into the prime vertical room, which is 13 by 14 feet, and 11 3/4 feet high. In it is mounted, in the prime vertical, a 3-inch Fauth transit instrument, on an independent, rectangular pier 34 by 18 inches, and 35 inches high, above the floor. The roof of this room is provided with shutters exactly like those belonging to the meridian circle room. On the north side of the building, and connected to it by the prime vertical room, is a class and lecture-room twentyfour feet square with two outside entrances. Behind the rostrum in the west side is a clear white wall space, sixteen feet long by nine and one-half feet high, prepared especially for the projection of pictures by the stereopticon. This room will comfortably seat fifty students for lecture or recitation purposes, and to this end chairs have been provided with facilities for taking notes. From the cloak-room of the north entrance is the stairway leading to the small equatorial room with open shutter as shown in the cut. In this observing room is mounted the Clark 8½ inch equatorial which was built for Carleton College in 1878. It is a fine telescope and is now as good as on the day of its first mounting. The pier supporting it is carried up from the basement with solid masonry of stone and cement to the floor of the observing room. Above this floor it is built of brick to the height of seven feet, and cased with wood. The brick base was found not to be sufficiently firm for a proper support of the equatorial, so a cast iron rectangular cap, of the size of the top of pier, and three-fourths of an inch in thickness, was furnished. Through the corners of this piece four iron rods were run and imbedded into the angles of the pier and finally very securely anchored in the cap-stone below." (The domes were constructed by Messrs. Warner and Swasey of Cleveland, Ohio.)

NATIONAL REGISTER OF HISTORIC PLACES	
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(Goodsell					
CONTINUATION SHEET	Observatory	ITEM NUMBER	8	PAGE	3	

"PA" was published until the 1950s with the editorial office continually being maintained at the observatory. Prof. Payne continued as editor of the publication until his retirement in 1907. He is also the party who first instituted the time service previously mentioned.

The building is also significant for two additional reasons. One is its architecture, for it is a superbly preserved example of Romanesque Revival architecture. The building has suffered no exterior alterations except for the possible resurfacing of the two domes. The interior has undergone only minor changes with the most important scientific areas remaining in original condition. Lastly, the building has been continually used as an astronomical laboratory and teaching facility for its entire history. It has served not only Carleton College but many other neighboring colleges which recognized this building as a very specialized center of scientific learning.

In summary, the building is an unusual combination of a number of historical components which individually would by significant in their own right. However, as a group they make <u>Goodsell Observatory</u> one of the most significant buildings in the state.

<u>Goodsell Observatory</u>, originally known as <u>New Observatory</u> for a short period in its early history, was named in honor of Charles Morehouse Goodsell, the man recognized as the founder of the college.



Form No. 10-301 (Rev. 10-74)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES PROPERTY MAP FORM

RECEIVED	APR	28	1975		

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- ENCLOSE WITH MAP

I NAME			
HISTORIC			
	Goodsell Observatory (New Ob	oservatory)	
AND/OR COMMON			
	Goodsell Observatory		
2 LOCATION	Ĩ		
CITY, TOWN	VICINITY OF	COUNTY	STATE
	Northfield	Rice	Minnesota
3 MAP REFE	RENCE		
SOURCE	USGS - Northfield Quadrangle	e, Minnesota, 7.5 Mi	nute Series
	1,24,000 1060		

4 REQUIREMENTS

TO BE INCLUDED ON ALL MAPS

1. PROPERTY BOUNDARIES

2. NORTH ARROW

3. UTM REFERENCES

United States Department of the Interior National Park Service

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ADDITIONAL INFORMATION

Veloung Keeper

United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

Section number _____ Page ____

Note: These changes apply to Goodsell Observatory in Rice County, Minnesota.

REFERENCE NUMBER: 75001025

STATE: MINNESOTA

COUNTY: Rice

RESOURCE NAME (HISTORIC): Goodsell Observatory, Carlton College

CITY:

VICINITY OF:

ADDRESS: off 1st. St. E.

CERTIFICATION DATE:

REMOVED DATE:

COMMENTS:

hiva M. archabal

JUN 1 7 1988

Nina M. Archabal State Historic Preservation Officer Date