



Nottawaseppi **H**uron **B**and of **P**otawatomi

LEED Certified Health Center

Fulton, Michigan





LEED – Leadership in Energy & Environmental Design

The following briefly outlines the process for LEED Certification and can be found in detail at:

<http://www.usgbc.org>





Why Use LEED?

- LEED is a third-party certification program and the nationally accepted benchmark for the design, construction and operation of high performance green buildings.
- LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance.
- LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.





LEED Process

- Project Registration
- Application Submittal
- Project Construction
- Project Certification
- Certification Award





Project Registration

Registering a LEED project is the first step toward earning LEED certification. Once registered, project teams receive information, tools, and communication that will help guide through the certification process

LEED registration has a flat fee paid up front at the time of registration. The rates are as follows:

Members \$450.00

Non-Members \$600.00





LEED for New Construction v 2.2 Registered Project Checklist



Project Name: _____

Project Address: _____

Yes	?	No		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Totals (Pre-Certification Estimates) 69 Points	
			Certified: 26-32 points	Silver: 33-38 points
			Gold: 39-51 points	Platinum: 52-69 points

Yes	?	No		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sustainable Sites 14 Points	
Yes			Prereq 1 Construction Activity Pollution Prevention	Required
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1 Site Selection	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2 Development Density & Community Connectivity	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3 Brownfield Redevelopment	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.1 Alternative Transportation, Public Transportation	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.2 Alternative Transportation, Bicycle Storage & Changing Rooms	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.3 Alternative Transportation, Low-Emitting & Fuel Efficient Vehicles	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.4 Alternative Transportation, Shared Bicycles	1



Application

LEED-Online Application

Most LEED registered projects are able to use LEED-Online to document their application for LEED certification. This online workspace allows an administrator to build a project team, assign credits to appropriate individuals, and submit to USGBC for review.

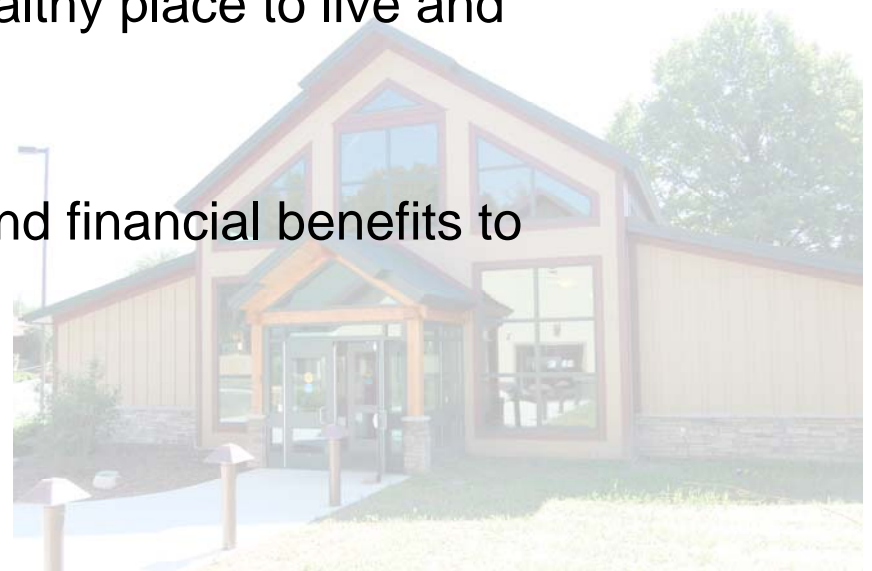




Project Certification

LEED certification provides independent, third-party verification that a building project meets the highest green building and performance measures. All certified projects receive a LEED plaque, which is the nationally recognized symbol demonstrating that a building is environmentally responsible, profitable and a healthy place to live and work.

There are both environmental and financial benefits to earning LEED certification.





Certification Fees – Partial List

	Less than 50,000 Square Feet	50,000-500,000 Square Feet	More than 500,000 Square Feet	Appeals (if applicable)
LEED for: New Construction, Commercial Interiors, Schools, and Core & Shell full certification	Fixed Rate	Based on Square Footage	Fixed Rate	Per credit
Design Review				
Members	\$1,250.00	\$0.025 / sf	\$12,500.00	\$500.00
Non-Members	\$1,500.00	\$0.030 / sf	\$15,000.00	\$500.00
Expedited Fee*	\$5,000.00 regardless of square footage			\$500.00
Construction Review				
Members	\$500.00	\$0.010 / sf	\$5,000.00	\$500.00
Non-Members	\$750.00	\$0.015 / sf	\$7,500.00	\$500.00
Expedited Fee*	\$5,000.00 regardless of square footage			\$500.00
Combined Design & Construction Review				
Members	\$1,750.00	\$0.035 / sf	\$17,500.00	\$500.00
Non-Members	\$2,250.00	\$0.045 / sf	\$22,500.00	\$500.00
Expedited Fee*	\$10,000.00 regardless of square footage			\$500.00





Project Construction

During the construction, keep track of the contractors work to ensure the original plan is completed. If changes/modifications are required, discuss options with Tribal staff and contractor to determine the best method to meet the needs of the Tribe.





Certification Scheduling

For LEED for New Construction (all versions) and LEED for Schools, project teams can expect delays of up to 4 weeks from the date of submittal for their project to begin the review process. The project team will be notified when their project enters review; due to increasing review volume, review results may be delayed by up to 4 weeks.





Certification Award

The official certification date of the project is the date USGBC receives notice of a project team's acceptance of the Final LEED Review. USGBC will then contact the project team regarding fulfillment details, including their certificate and LEED plaque.





Platinum Certification Rebate

Projects that are awarded LEED platinum certification will receive a rebate for all certification fees. The rebate applies to projects that certify using LEED for New Construction, LEED for Existing Buildings, LEED for Commercial Interiors, LEED for Core & Shell, or LEED for Schools.



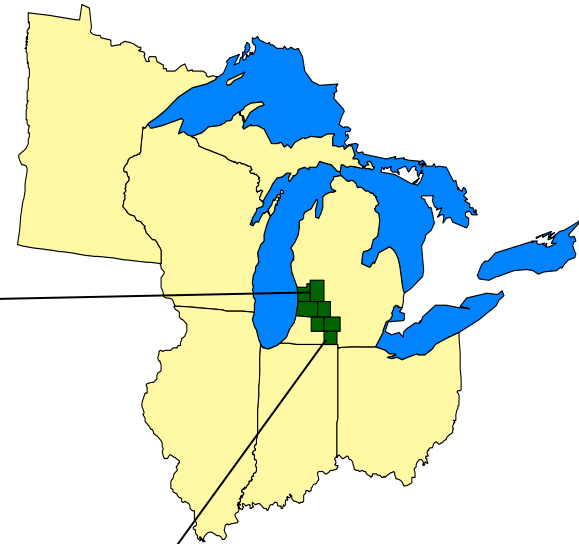
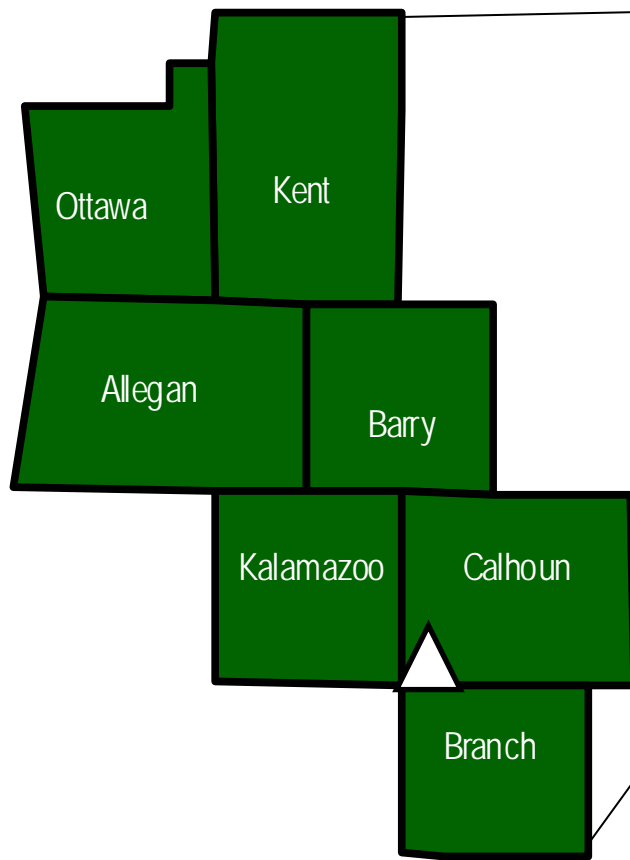


NHBP Health Facility

The following slides show some of the aspects of our completed Health Facility. According to HUD, this is the first LEED Certified Tribal building in the Region.

We are currently waiting the final Certification and Award from the USGBC.





- rural location
- small membership
- strategic plan
- grant driven (LEED)
- jointly funded – HUD/HIS
- health based – disease prevention



6,000 square feet • LEED Certified Silver Rating (34 credits) • 3 exam rooms
 laboratory • formulary • fitness room • demonstration kitchen • chronic care model



Local Material Usage

Timbers, concrete, asphalt, grasses,
landscape materials

Low VOC Paints

Paint that does not off-gas harmful chemicals

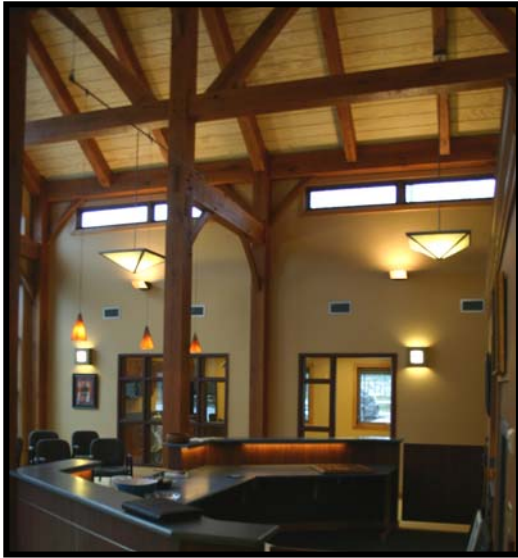
Recycled Content Materials

Carpet, Gypsum Board, Ceiling Tile,
Concrete

Rapidly Renewable Resources

Bamboo Flooring, Linoleum Flooring





Super Energy Efficient Building Envelope

R30 Walls, and R49 Roofs, Triple-pane, argon filled windows with Low-E coatings, mechanical, and electrical systems that will yield an estimated 20% reduction in total energy consumption of the building. **Open loop geothermal heat pump system utilized for heating/cooling**



Energy Efficient Systems

Room daylight and occupancy sensors for lighting, multi zone heating and cooling system, ground water source heat pumps for heating and cooling, Energy Star rated appliances, 3-Phase motors & lighting, reduced lighting power density and daylight harvesting

Improved User Environment

Abundant views to exterior, colorful finishes, **daylighting in 75% of rooms**, occupants have the ability to change space temperature and lighting levels within individual zones

Water Efficient Fixtures

Waterless urinals, low-flow fixtures, electronic sensor operators

Refrigerant Management

No ozone depleting refrigerants used, utilized R410a refrigerant

Construction Waste Management

Diverted 75% of waste from landfills

Indoor Air Quality Performance

Outdoor air ventilation increased above building code minimum to comply with ASHRAE standard 62. Smoking not permitted inside or within 25 feet

Thermal Comfort

Mechanical systems designed to maintain space temperatures that comply with ASHRAE standard 55. Thermal comfort shall be verified via occupant survey



The background is a detailed landscape site plan. It features topographic contour lines, a network of paths, and various landscape elements. Key features include a 'PENCED PLAY AREA' in the upper left, a 'RAIN GARDEN (BY OTHERS)' and another 'RAIN GARDEN (BY OTHERS)' in the lower left, a 'CONCRETE BASKETBALL COURTYARD' in the lower center, and a 'PARKING LOT - 116 SPACES' in the center-right. There are also labels for 'INDIAN CREEK DRAIN', 'EX. BRIDGE', 'CANOPY', 'COOK HOUSE', 'EX. ASPHALT PAVEMENT', and 'ENTRY LANDSCAPE PLAN, SEE BELOW'. Numerous callout boxes with alphanumeric codes (e.g., HAW 005, JUN 001, ARB 002, ARB 003, MOC 007) are scattered throughout the plan, pointing to specific plants or structures.

Preferential Treatment for Conservation Technology Systems

Preferential parking for low-emitting or fuel efficient vehicles and carpool vehicles, bike storage racks and showering facilities

Rain Garden

Rainwater is conducted to low points populated with plant species that naturally thrive in saturated soils, which transpire the rainwater back into the atmosphere or infiltrates into the ground

Native Plant Species

Prairie and sedge meadow grasses native to local climate, landscaping materials that can survive with no irrigation system



Exterior View



Exterior View



Lobby



Fitness Room



Demonstration Kitchen



Project Reflections

- Know exactly what you want done – have it written in the project specifications
- Get input from environmental/natural resource staff in addition to end users
- Get references for contractors – contact all references
- Closely follow construction process – keep contractors honest!
- It always costs less to do it right the first time!





Special Thanks to:

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