

CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT

GREEN ROOF GRANTS PROGRAM 2006: RESIDENTIAL AND SMALL COMMERCIAL

2006 Grant Program Winner Summaries

- 2112 W. Charleston Street, Chicago, Illinois 60647
Ward: 20 Type: Residential

The owners will install an approximately 450 square foot green roof. Their house is especially well-suited for a green roof application as it was specifically designed and built to support a green roof system by the previous owners. The existing roof membrane and drainage system will be augmented with the appropriate drainage core, separation fabric, irrigation system, and turf necessary to complete the project.

- 1322 N. Clybourn Avenue, Chicago, Illinois 60610
Ward: 1 Type: Residential

The architect and developer of this building are seeking LEED certification. When completed, this six-unit residential building will include recycled rubber tiles, rain collection barrels, and approximately 2,175 square feet of green roof. The green roof area will include a combination of extensive and intensive systems. Their intention is that this building be “a model of the aesthetic and fiscal benefits of sustainable building design in the former Cabrini-Green Housing area revitalization, and inspire other architects, developers, builders, and homeowners to follow suit.”

- 4437 N. Troy Street, Chicago, Illinois 60625
Ward: 47 Type: Residential

This homeowner will install a 400 square foot intensive, modular green roof system on a flat-roofed garage. The roof will be planted with sedum, prairie grasses, and drought-tolerant plants to compliment the yard, which is entirely landscaped with native prairie grasses and perennials. In addition to the roof project, the homeowner has installed permeable walkways and a rain barrel collection system. He also plans to add a composting area to the property. The garage roof will be visible from the upper floors of a dozen houses nearby, which the homeowner hopes will inspire others in the neighborhood to improve the environmental sustainability of their own properties.

- 1824 N. Wolcott Avenue, Chicago, Illinois 60622
Ward: 32 Type: Residential

This project is the installation of a 575 square foot green roof at this condominium building to provide both the environmental and aesthetic benefits of a green roof for the enjoyment of all the building's residents. The project calls for the use of grass, perennial flowers and small shrubs to create a rooftop garden with walkways and a seating area. Recycled rubber blocks will be used in the construction of the walkways to further enhance the green aspects of the project. The grantee hopes that this project will prompt other residents of the neighborhood to include green roofs in their redevelopment plans.

- 2531 N. Washtenaw Avenue, Chicago, Illinois 60647
Ward: 27 Type: Residential

This building is located in Logan Square, which has been identified as a Chicago community in need of more park/open space. In order to contribute to the needed "greening" of this community, the grantees are incorporating several green technologies into their ongoing home renovation project.

In addition to installing an approximately 800 square foot green roof, the remodeling project will likely incorporate solar panels for heating household water or a solar and wind hybrid power generator, as well as rainwater collection cisterns and a greenhouse/solarium to improve passive heating in the winter. The greenhouse may be used to help propagate native plant species of prairie grasses and flowers for later planting on the roof. The roof is visible from several neighboring buildings, and the grantees are enthusiastic about showing the completed project to many interested parties, including educational groups.

- 11306 S. Drake Avenue, Chicago, Illinois 60655
Ward: 27 Type: Residential

These grantees have incorporated a green roof into their plans to add a full second story to their home. The addition will create a flat roof area on which they will install an extensive, modular green roof system covering approximately 782 square feet. The green roof will be utilized as a third story, with a walkway and small seating area. The grantees hope to benefit from the reduction of rainwater runoff, as well as beautifying the neighborhood.

- 1536 W. Hood Avenue, Chicago, Illinois 60660
Ward: 49 Type: Residential

The grantees are planning to install a modular green roof on 350 square feet of a new garage. The roof will be angled slightly and positioned such that the runoff not retained by the rooftop plants will fall on the garden, rather than an impermeable surface. The grantees already use rain barrels to reduce overloading of the municipal sewer system. They also plan to use the green roof as a teaching tool.

- 1645 W. Ontario Street #2E, Chicago, Illinois 60622
Ward: 1 Type: Residential

The grantees plan to install a green roof on top of their unit in an 8 unit condominium building. Using easy to maintain plants and grass, surrounded by a gravel edge, and lined with pots and planters, their idea is to enhance the foliage on the roof while staying simple enough to make it less labor intensive for maintenance purposes. Additionally, they are creating a walkway leading to a patio space to keep the deck space functional and allow for people to enjoy the green roof while admiring a beautiful view of the Chicago skyline.

- 5712 S. Kenwood Avenue, Chicago, Illinois 60637
Ward: 5 Type: Residential

The grantees will install a 240 sq. ft. green roof on the back portion of their roof building where it is exposed to the full sun in the afternoon. They will use low maintenance ground covers like vicaminor and camputula, as well as slow growing bushes like dwarf arborvitae. Their intention is to reduce the energy cost to their building, give cleaner air and provide a calming effect to the area.

- 1757 W. Crystal Street, Chicago, Illinois 60618
Ward: 1 Type: Residential

Adding half a story to their existing one-story masonry building, the grantee seeks to create additional living space for the owners, a studio and offices for their business, and a single car garage. To accompany this, and due to the building occupying the entire lot, the homeowners intend to use the rest of their roof space as if it were a conventional front and back yard. Approximately 1,430 sq. ft. will be a semi intensive green roof with plants ranging from indigenous perennials to privacy shrubs. Additionally, this greenery will be highly visible from the windows and balconies of the neighboring buildings.

- 2358 S. Marshall Boulevard, Chicago, Illinois 60623
Ward: 12 Type: Residential

In restructuring the roof to accommodate for additional units in this condominium building, the grantee plans to cover this area with a 900 sq. ft. green roof. It will contain 2 fleece layers and have a saturated weight of about 15 lbs. per sq. ft.

- 4408 S. Berkeley Avenue, Chicago, Illinois 60653
Ward: 4 Type: Residential

In addition to installing new energy efficient windows, a programmable thermostat, Energy Star appliances, and donating reusable home parts, this self-described eco-conscious homeowner also seeks to install an 884 sq. ft. green roof. The system, which will use low maintenance and native vegetation, will be visible to the surrounding residential homes. The grantee hopes that this visibility might generate interest and encourage others to explore the benefits of a green roof.

- 5551 S. University Avenue, Chicago, Illinois 60637
Ward: 5 Type: Residential

The grantees are proposing the addition of a 1000 sq. ft. green roof on top of their 4 story cooperative apartment building. A do-it-yourself green roof kit has been selected

as the system for the project. The kit base components for the system are modular units of 2 sq. ft. by 4" deep.

- 3917 N. Troy Street, Chicago, Illinois 60618
Ward: 33 Type: Residential

In building and designing a new single family home, the grantee is proposing to include a 500 sq. ft. green roof on top of the building. The reasoning is not only to benefit from the energy saving obtained by installing a green roof, but also to create a living space on the rooftop.

- 1341 S. California Avenue, Chicago, Illinois 60608
Ward: 28 Type: Residential

Inspired by the Japanese Gardens in Portland, Oregon, the grantee hopes to make their rooftop garden an oasis of peaceful green space. After installing the 1,500 sq. ft. green roof, the homeowner would like to be able to show others how a "green home" can offer both tremendous long term investment and be a functional part of everyday life.

Using a maximum soil depth of 6" to maintain lower material costs, the green roof will be contracted through a local roofing contractor within the City of Chicago. The roof top system and garden will be designed with maximum retention of water in mind, to drastically slow storm water runoff and have little or no storm water leave the property. This will be accomplished through an integrated system of plant and soil layers, roof top fountains and rock bed streams to serve as reservoirs. Finally rain barrels will be installed to the gutter system to hold water for use in irrigation.

- 3909 N. Claremont Avenue, Chicago, Illinois 60618
Ward: 47 Type: Residential

The grantees will be installing a 525 sq. ft. roof garden above their garage, and an additional 1,300 sq. ft. green roof on the top of their 2.5 story house. They plan to plant sedum on both areas using a green roof system. This green roof will be visible from many of the surrounding buildings.

- 1715 N. Damen Avenue, Chicago, Illinois 60647
Ward: 32 Type: Residential

The grantee has approximately 1,200 sq. ft. of extensive green roof planned for both the building and garage. Vegetation will range in size from ground cover to indigenous perennials. The focus of the planting schedule will be to provide flora that creates an interesting backdrop for roof top activities, while requiring little or no maintenance. The grantee's overall design of this project also includes abundant natural light and ventilation, while utilizing a number of recycled materials and building products.

- 1660 N. Oakley Avenue, Chicago, Illinois 60625
Ward: 1 Type: Residential

The homeowners will include a 600 to 1,000 sq. ft. green roof on their new two story single family home. This green roof will provide a nice view for many of the three story

and four story condominiums in the area. The roof of this structure is well-suited for the proposed project as it can bear up to 100 pounds per sq. ft. The homeowners believe that by installing a grid-type system, with a combination of “extensive” and “intensive” components for diversity of plants, they can help decrease the burden on the sewers during heavy rains.

- 2525 W. Belden Avenue, Chicago, Illinois 60647
Ward: 1 Type: Residential

As an architect who is building their own new single family home, the grantee will be installing a 400 sq. ft. green roof on their garage. It is intended to be used as a model to talk about and show to others in the construction industry. If possible, the project may extend to the house roof.

- 1200 W. Sherwin Avenue, Chicago, Illinois 60626
Ward: 49 Type: Residential

The applicant is proposing to build a 1,340 sq. ft. modular green roof system above the lobby of their building, where more than 50% of the building’s residents have direct views. In addition, the residents of this building plan to expand their current lawn landscaping, install additional 200 sq. ft. of planter boxes and plotted plantings on the veranda, and plant native grasses in the rock outcroppings.

- 2930 W. Lyndale Street, Chicago, Illinois 60647
Ward: 35 Type: Residential

The grantee will install a 620 sq. ft. green roof around a skylight on their new single family home they are building. They are planning on using a modular green roof system, which is supplied by a local Chicago company. The grantee chose this system based on its flexibility, demonstrated reliability and affordability. Being located less than one block away from the CTA’s elevated Blue Line train, they also feel that this green roof will help reduce indoor noise pollution.

- 831 W. Ainslie Street, Chicago, Illinois 60647
Ward: 48 Type: Residential

The grantee will build a roof top garden on their newly rehabbed condo building in Logan Square. The first part of this project is to construct a stairway from the existing enclosed rear porch up through the roof and a small structure on the top from which to exit onto the roof. The second part is to construct an 800 sq. ft. modular green roof system with a built in drainage system. The homeowner would also like to eventually incorporate solar panels on the roof.

- 2518 W. Eastwood Avenue, Chicago, Illinois 60625
Ward: 47 Type: Residential

This project consists of replacing a frame garage with a new garage designed to support a roof deck with planters, repairing the existing 2 story enclosed rear porch, and an exterior metal stair running from the second floor to grade. The metal stair will also serve as access to the roof deck above the garage and egress for both apartments.

Roughly 118 sq. ft. will be designated as a green space, using a modular system of planters. The project will also include a wire trellis system running two and a half stories up the sides of the metal stairs. This system adds vertical green space to a lot that is already truncated due to elevated tracks running behind the property.

- 4750 N. Dover Street, Chicago, Illinois 60640
Ward: 47 Type: Residential

The objective of this grantee is to complete a 1,102 sq. ft. intensive green roof on a purpose built garage with “live load” support capability in addition to plants and a saturated soil depth of 18”. The roof garden is to be a meditation space for the residents of the three flat residential building. Visible to multiple surrounding buildings, the building owners will also allow access to the roof for neighborhood garden walks, for neighbor’s association meetings and social occasions, and to interested others upon request.

- 3600-3606 W. Douglas Boulevard, Chicago, Illinois 60623
Ward: 24 Type: Residential

The purpose of this project is to create a 3,672 sq. ft. functional green roof that in addition to basic green roof benefits will provide the site with edible plant products such as kale, lettuce, spinach, tomatoes, squash, basil, dill parsley, beets, and radish. Edible mushrooms will also be grown to provide food and enzymes that are capable of destroying pollutants found in rainwater and deposited atmospheric particulates. Along with a proposed green roof, solar panels will be installed to provide hot water for the building residents. A future addition to the green roof system will be rainwater catchment for irrigation and laundry water.

- 2537 W. Belden Avenue, Chicago, Illinois 60647
Ward: 1 Type: Residential

This grantee plans to landscape approximately 520 sq. ft. of the roof of their newly-built garage. The green roof, which will cover approximately 50% of the garage roof area, is meant to be visible to surrounding neighbors and serve as a prominent model for the community. The other half of the roof will be used for a seating area, with a small wooden deck surround, and potted plants. This intensive green roof will be built with a 34” soil depth. This depth would be enough to grow trees as well as shrubbery in order to help control the temperature and hold rain water.

- 2000 N. Lincoln Park West, Chicago, Illinois 60614
Ward: 43 Type: Residential

The condo association of this historic building is installing a 14,000 sq. ft. green roof on the 17th floor roof deck. Built in 1930, this 195 unit condominium building already has many willing owners volunteering to maintain the new green roof. Additionally, because of the location of this building and the lack of obstructions, any greening on the roof top of this building would be visible from great distances in all directions.

- 718 S. Oakley Boulevard, Chicago, Illinois 60612
Ward: 2 Type: Residential

Storm water management, especially in recent years, has been a very important concern for this grantee and his neighbors. The first steps the community took was to install a local rain garden network. Planted with native flood and drought-tolerant flowers and grasses, these gardens have already attracted butterflies and birds as well as their primary purpose of managing rain water. Additionally, the grantee is already using an 80-gallon rain barrel to store rain water and a rain chain that directs water to the rain garden in the front yard of their property. Now in their own project, the grantee hopes that by installing 1,890 sq. ft. of modular green roofing to cover their rear garage, main building and second floor balcony, it might encourage and educate neighbors about other “do-able” green technology applications.

- 1843 W. Barry Avenue, Chicago, Illinois 60657
Ward: 32 Type: Residential

The grantees will install a 1,600 sq. ft. modular green roof system to insulate their 85 year-old home and expand the surface area where they can grow organic foods. They hope to set an example to friends, family members, and Hamlin Park residents walking to and from local schools, parks and churches. Additionally, the grantees have installed other green principles throughout their home such as two composters, recycling bins, fluorescent light bulbs, rain barrels, energy efficient HVAC systems, and programmable thermostats.

- 320 S. California Avenue, Chicago, Illinois 60612
Ward: 2 Type: Small Commercial

The grantee is proposing to install a 1,265 sq. ft. green roof on top of their 5 unit mixed-use commercial/residential building, concurrent with replacement of the current roof. The building is ideal for a green roof because of its proximity to the gateway of the East Garfield Park neighborhood, which is within the City of Chicago’s Planned Green Development area. To add to this, the homeowner plans to open their own office in the commercial storefront which will specialize in green real estate services.

- 934 W. 79th Street, Chicago, Illinois 60620
Ward: 17 Type: Small Commercial

The grantee plans to include a 1,393 sq. ft. green roof and other energy efficient building designs. Renovation plans are meant to promote commercial renovation and development while reducing air pollution and storm water drainage in the City of Chicago. To accompany the change in the physical structure above the small commercial storefront, three new units of affordable housing will also be added to the Auburn Gresham Community Area.

- 412 S. Peoria Street, Chicago, Illinois 60607
Ward: 2 Type: Small Commercial

This project is a 5,000 sq. ft. green roof on the top of the College of Urban Planning and Policy (CUPPA) Building at the University of Illinois at Chicago (UIC). The project will be

a joint collaboration between students and CUPPA professors. The green roof will cover about half of the roof, leaving the other half accessible to maintenance personnel at UIC. This project is intended to exemplify the positive benefits of green roofs, as well as demonstrate to fellow students, faculty and staff that green roofs are possible to create on a limited budget.

- 3000 N. Elbridge Avenue, Chicago, Illinois 60647
Ward: 35 Type: Small Commercial

As a local nonprofit agency, the grantee will be installing a 450 sq. ft. green roof on top of the former Elbridge Fire Station, which they are rehabbing for use as a new administrative office. LEED certification will be sought and as many green elements will be incorporated into this project as are economically feasible.

- 4740 N. Western Avenue, Chicago, Illinois 60625
Ward: 47 Type: Small Commercial

The grantee is a not-for-profit and will use this grant to assist with the cost of adding two small (approximately 275 sq. ft. each) intensive green roof sections to their building. Their plan is to install both non-accessible extensive and publicly accessible intensive green roof segments in hope of lengthening the life of the already rehabbed roof structure beneath, minimizing urban heat island effects, and lessening storm water run-off.

- 935 W. Webster Avenue, Chicago, Illinois 60614
Ward: 43 Type: Small Commercial

The grantee will install a 1,600 sq. ft. modular green roof above their restaurant near the Fullerton CTA Elevated stop. The location is ideal due to the fact that the trains slow at this location, and the view is unobstructed. The focus of this project will be on educating the public about green roofs by creating a highly visible system that will be advertised on a nearby wall, and offering free tours monthly after the roof is installed.

- 2050 W. Augusta Boulevard, Chicago, Illinois 60622
Ward: 32 Type: Residential

As the owner of a three flat walk-up, the grantee will be installing a 1,200 sq. ft. green roof system with an open area for a walkway and a solar panel. The roof is ideally sloped and there is ample space for a rain barrel or two on the ground. The occupants of the building also have an outdoor composting barrel as well as a basement red-worm composting box.

- 1513 W. Winnemac Street, Chicago, Illinois 60640
Ward: 46 Type: Residential

The grantee will be installing a 1,600 sq. ft. green roof that incorporates a foam insulation layer to provide major benefits for their building, which because of its old age is challenged by weather extremes. This is especially important as increasing energy costs can make it difficult for these older buildings to remain economically viable. They also believe that by demonstrating the viability of a green roof upgrade on this typical

Chicago building type, others property owners might be encouraged to invest this technology in their rental buildings.

- 4511 N. Campbell Avenue, Chicago, Illinois 60625
Ward: 47 Type: Residential

The owner of this property will be installing a 755 sq. ft. of green roof on their single family house. In addition to their roof, the grantees believes that if they are able to add a green roof on top of their porch it could be seen from the street and therefore be an educational tool demonstrating good environmental practices. The grantee will also incorporate informational signage to better inform those who are walking by as to how a green roof works.

- 1943 N. Wolcott Avenue, Chicago, Illinois 60622
Ward: 32 Type: Residential

On top of a planned expansion to their home, the grantee will be adding a 500 sq. ft. green roof with native prairie grasses. They believe the benefits of a green roof are perfectly suited for the Bucktown neighborhood, which has plenty of new developments with downspouts tied directly to the sewer, contributing to sewer backups in cases of heavy rain fall. The homeowner wants to use the green roof to educate their neighbors about the aesthetic and benefits of retarding, if not preventing, storm water flow to the sewer. The grantee will also incorporate two wind generation devices which will be easily visible from the street.

- 1032 W. Fulton Market, Chicago, Illinois 60607
Ward: 27 Type: Small Commercial

While completely renovating the Fulton Market Commercial Building, the grantee will be adding a 1,392 sq. ft. green roof to the top floor of their three story building. They are planning to use a modular system, which can be easily arranged or rearranged to accommodate roof maintenance and repair, when necessary. In addition to the cost savings and environmental benefits that come along with a green roof, the grantee also seeks to create a garden oasis environment that is aesthetically pleasing.