



SHEPPARD SQUARE HOPE VI Revitalization GREEN FEATURES OF BLOCK B (ON-SITE RENTAL)

Overview

All rental and homeownership units at the new Sheppard Square development will be constructed according to **Enterprise Green Community (EGC)** standards. Enterprise Green Communities provides a clear, cost-effective framework for all affordable housing development types in any location in the country, including new construction and rehabilitation in multifamily as well as single-family buildings. Housing designed and built to EGC standards has been shown to deliver significant health, economic and environmental benefits to families of all incomes.

In addition to meeting EGC standards, LMHA will apply for **LEED-ND (Leadership in Energy and Environmental Design for Neighborhood Development)** for the new Sheppard Square community. LEED for Neighborhood Development is a system for rating and certifying green neighborhoods. LEED-ND builds on U.S. Green Building Council's (USGBC) LEED systems, the world's best-known third-party verification that a development meets high standards for environmental responsibility. LEED-ND integrates the principles of New Urbanism, green building, and smart growth into the first national standard for neighborhood design, expanding LEED's scope beyond individual buildings to a more holistic concern about the context of those buildings. For more information on certification and to find other resources, view the USGBC's [Neighborhood Development Resources](#) web page.

Location

Block B of the new Sheppard Square development is bound by Finzer, South Jackson, Jacob and Hancock Streets. At build out, the block will be comprised of 60 units in 5 buildings.

Specific Green Features and Activities

Category	
SITE IMPROVEMENTS:	
Enterprise Green Communities	<ul style="list-style-type: none"> Erosion and Sedimentation Control Measures will be implemented through the construction process. Landscaping will include 50% native and adaptive plant material (including Willow Oak, Flowering Dogwood, Bald Cypress, Inkberry Holly, Black-eyed Susan, Lobelia, Switchgrass) An efficient irrigation system will be installed which includes timer/controllers. Based on watering needs, 50% of irrigation will be a drip system to reduce water usage and increase efficiency. The project will harvest and retain the first 0.5 inches (min.) of rain in 24-hour period through pervious pavers, (2) bio-filtration swales and an underground storm detention system. <p style="text-align: center;">WATER CONSERVATION:</p>
Enterprise Green Communities	<ul style="list-style-type: none"> Low-flow toilets at 1.28 gallons/flush, kitchen faucets at 1.5 gallons/minute and bathroom faucets at 0.5 gallons/minute will be installed.

ENERGY EFFICIENCY:

<p>Enterprise Green Communities</p>	<ul style="list-style-type: none"> Buildings will certify under Energy Star 3.0 guidelines, which will ensure energy savings in heating, cooling, hot water, lighting and appliance efficiencies. <ul style="list-style-type: none"> ENERGY STAR rated dishwashers and refrigerators will be installed. Efficient lighting and bulbs will be installed in both building interiors and exteriors. <ul style="list-style-type: none"> Individual electric meters will be installed for each residence. Furnaces will be 96% energy efficient. Air-conditioners will have a Seasonal Energy Efficiency Ratio (SEER) of 16. (All residential air conditioners sold in the United States must have a SEER of at least 13. ENERGY STAR qualified Central Air Conditioners must have a SEER of at least 14.)
<p>Additional Green Activities</p>	<ul style="list-style-type: none"> Use of vegetation to conserve energy (e.g., wind and sun protection of A/C units, pavements, and south facing windows). Install infrastructure for future electric vehicle charging station.
<p align="center">MATERIALS BENEFICIAL TO THE ENVIRONMENT:</p>	
<p>Enterprise Green Communities</p>	<ul style="list-style-type: none"> All interior paints and primers will contain low amounts or no amounts of volatile organic compounds (VOCs). All adhesives will contain low amounts or no amounts of VOCs. Contractor will commit to following a waste management plan that reduces non-hazardous construction and demolition waste by at least 25% by weight through recycling, salvaging, or diversion strategies. Contract documents encourage the use of building materials that are composed of at least 25% post-consumer recycled content or at least 50% post-industrial recycled content with respect to framing materials, siding, masonry, roofing, concrete/cement aggregate, drywall/interior sheathing and flooring materials. (Exact amounts to be determined during construction based on availability) Contract documents encourage the use of products that were extracted, processed, and manufactured within 500 miles of the project site for a minimum of 50% of the building material value (based on cost) with respect to framing materials, siding, masonry, roofing, concrete/cement aggregate, drywall/interior sheathing and flooring materials. (Exact amounts to be determined during construction based on availability). Contract documents encourage the use of Certified, Salvaged, and Engineered wood products and materials of at least 25% that are (by cost) engineered framing materials without urea-formaldehyde binders. Roofing will be ENERGY STAR-compliant roofing which reflects heat in lieu of retaining heat. Paving materials will be light colored, high-albedo materials (concrete) with a solar reflectance of 0.3. Additionally, open grid pavement installed to reduce storm drainage will reduce the heat island effect from paved areas. Two (2) recycling storage locations have been integrated into the site plan for use by future residents.
<p>Additional Green Activities</p>	<ul style="list-style-type: none"> Mandated recycling of demolition material and construction waste. Approximately 75% of demolition material was diverted from the landfill. Also, all LMHA Contractors are required to recycle items they bring on site, including but not limited to soft drink cans, water bottles, and newspapers.
<p align="center">HEALTHY LIVING ENVIRONMENT:</p>	
<p>Enterprise Green Communities</p>	<ul style="list-style-type: none"> Any composite wood products used will emit low levels or no levels of Formaldehyde. Carpet will not be installed in entryways, laundry rooms, bathrooms, kitchens/kitchenettes, utility rooms, or any rooms on the ground floor level. Bathrooms will have ENERGY STAR- labeled exhaust fans that exhaust to the outdoors, are connected to a light switch, and are equipped with a timer, or other control and operate at a rate of 50 cubic feet per minute (cfm). Kitchens will have power-vented range hoods that exhaust to the outdoors at an intermittent rate of 100 cfm.

	<ul style="list-style-type: none"> The ventilation system will be capable of providing adequate fresh air per the American Society of Heating, Refrigeration and Air-Conditioning Engineer's ASHRAE Standard 62.2-2010. The clothes dryer exhaust will be ducted directly to the exterior. Water heater drain pans with drains piped to the exterior will be installed for mold prevention. Bathrooms, kitchens and laundry rooms will have durable, cleanable surfaces to prevent mold. Water resistant gypsum board will be used in tub and shower enclosures. Vapor barriers will be installed under slabs to prevent moisture intrusion. Under slab-radon passive radon control measures will be installed to mitigate radon. Architectural design provides water drainage away from windows, walls and foundation. Garage spaces will be isolated from living spaces to prevent mitigation of any contaminants into the living space. Wall, floor and joint penetrations will be sealed with low VOC caulking to prevent pest entry. Rodent and corrosion proof screens will be installed on openings greater than ¼".
--	--

OPERATIONS AND MAINTENANCE:

Enterprise Green Communities	<ul style="list-style-type: none"> A building maintenance manual will be provided for all multi-family projects. A resident manual will be provided for all residential units. An initial orientation between property management and each new resident to highlight the environment and cost-saving features of their unit. LMHA will collect and monitor project performance on energy, water, and, if possible, healthy living environments for a minimum of five years and allow Enterprise to access this data.
------------------------------	--

Additional Green Activities	<ul style="list-style-type: none"> <i>Pilot organic (i.e. food) refuse collection program at one residential block (to be determined) of the new Sheppard Square development. Refuse will be collected and taken to a location off-site or adjacent to the new development to be composted.</i> <i>Designate 40% of rental units constructed at the new Sheppard Square as "Smoke-Free".</i>
-----------------------------	--

Proposed Green Features of Blocks A, C, D, E & F:

- Increase household access to natural lighting through use of solar tubes and skylights.
- Use of additional renewable/harvested energy technologies such as geothermal and photovoltaic.
- Collect rain water for on-site irrigation systems.
- Purchase electric vehicles for Maintenance staff.
- Install additional electric vehicle charging stations.