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For Immediate Release

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Markham Regional Water Treatment Plant-Operations Building Earns FGBC Green Commercial Building Certification

Seminole County's Markham Regional Water Treatment Plant-Operations Building has been awarded the Florida Green Commercial Building designation by the Florida Green Building Coalition (FGBC) after it successfully met the sustainability standards established in the FGBC Florida Green Commercial Building Certification program.

The designation represents achievements in a number of categories, such as energy efficiency, water conservation, site preservation, indoor air quality, materials, and durability, including disaster mitigation.

FGBC-certified projects complete a technically rigorous building assessment and construction process to promote design and construction practices that reduce the negative environmental impacts of the building, improve occupant health and well-being, and reduce operating costs for the owner.

"As an FGBC-certified building, the Markham Regional Water Treatment Plant-Operations Building serves as a model of sustainability for Seminole County businesses and residents," said Suzanne Cook, Executive Director for the FGBC.

The Markham Regional Water Treatment Plant achieved certification through exemplary performance in both water conservation and the use of local/regional materials. The building also extensively utilized non-toxic adhesives and paints and implemented a construction indoor air quality management plan during construction to achieve a healthy indoor environment.

Green features of the building include:

- Design that is 35% more efficient than FL Code
- Used a commissioning agent to review design, construction, and operations.
- All building HVAC&R systems are free of HCFC's and Halons.
- Landscape is comprised of 100% drought tolerant plants.

- Irrigation system uses no potable water or has no permanent system.
- Reduced potable water usage 50% in flush fixtures.
- Reduced the water budget of the building by 40%.
- Was not developed on prime farmland, flood prone areas, habitat for threatened species, 100ft of wetland, or public parkland.
- Provides securing locations for bicyclers and showering and changing rooms for 5% of total occupants.
- Does not exceed the minimum zoning parking requirements.
- No net increase in stormwater runoff from pre-development conditions to post-development.
- Provides onsite treatment of stormwater to remove 80% of total suspended solids (TSS) and 40% of total phosphorous (TP).
- Provides onsite measures to reduce heat island effects.
- Provides either a green roof (50% of roof area) or Energy Star Certified roofing material (75% of roof area).
- No smoking allowed in building.
- Systems are designed to monitor (CO₂) within the building.
- Indoor environmental quality was protected during construction according to SMACNA guidelines.
- Prior to occupancy the project provided 100% outside air for two weeks or conducted an EPA IAQ test.
- All adhesives and sealants meet VOC limits.
- All paints meet VOC limits.
- All composite wood and agrifiber products contain no added urea-formaldehyde.
- All insulation products are free of formaldehyde.
- Project employed measures to reduce pollutant contamination in the building entrances and housekeeping areas.
- Complies with ASHRAE Standard 55-1992, Addenda 1995, for thermal comfort standards including humidity control.
- Provides natural daylighting to 75% of interior spaces.

- Provides views to vision glazing for 75% of all occupants.
- Project has infrastructure for recycling paper, cardboard, glass, plastics and metal.
- Diverts a minimum of 75% of all waste from landfill.
- Incorporates 25% (based on material cost) recycled materials.
- Incorporates 10% (based on material cost) recyclable materials.
- Project purchased 20% (based on cost) of materials from a 700 mile radius from the project site.
- Uses exterior systems capable of withstanding the moisture and heat impacts of the local climate for a period of 40 years.
- Uses interior and exterior finish materials that require none or minimal periodic cleaning.
- Utilizes impact resistant glazing and impact resistant entry points.
- Slab elevation is at least 12' above the 100 year flood plan and all grades around the building slope away.
- Utilizes fire resistant exterior wall cladding, roof covering, or subroof, soffit and vent materials.
- FGBC Designated Professional was involved with the project design & construction.
- The team documented the cost impact of each credit submitted for certification.

About the Florida Green Building Coalition

The Florida Green Building Coalition (FGBC) is a nonprofit 501(C)3 Florida corporation founded in 2000 dedicated to improving the built environment. Its mission is "to lead and promote sustainability with environmental, economic, and social benefits through regional education and certification programs." FGBC certification programs are the only standards developed with climate specific criteria to address issues caused by Florida's hot-humid environment and natural disasters. Currently, FGBC is the leading certifier of green projects in Florida.

FGBC's membership is comprised of individuals and businesses from all areas of the building industry, including research, design, materials, products, construction, inspection, marketing, finance and public advocates. For more information about the FGBC "Florida Green" certification programs visit www.floridagreenbuilding.org.

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