



**City of Dallas**

# **Green Building Preview**

**Vickery Park Branch Library**

**Environmental and Sustainability  
Committee**

**November 2, 2020**

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# Purpose



- To share a new construction City facility project with “Green Building” components.
- To align with goals and objectives of City’s Comprehensive Environmental Climate Action Plan (CECAP).



# Vickery Park Branch Library- Project



*Vickery is the 30th location in the Dallas Public Library system; with this facility, the City will be completing the 2000 Master Plan for new locations. The library is being thoughtfully designed to meet the wants and needs of the neighbors, and to express the spirit of this diverse community.*

- **Scope of Work:** This project is a new 18,000 sq. ft. library facility built to provide services to an underserved community. The facility includes a children's area, teen area, adult area, restrooms, auditorium to fit approximately 100 occupants, meeting spaces/pods, exterior green/lawn space, exterior security cameras, and an exterior playground.
- **Funding Sources:** 2017 Bond Program and Friends of the Dallas Public Library, Inc.
  - Bond Allocation (Proposition E): \$7.790 Million.
  - Bond Allocation (Proposition B): \$240,000.
  - The Crystal Charity Ball Grant: \$752,454.75.
  - The Estate of Freda Gail Stern, her family, and friends Grant: \$100,000.
  - The Men and Women of Hunt Consolidated, Inc.: \$27,500.
- **Completion Date:** November 2020
- **Council District:** 13



# Vickery Park Branch Library- Project



- City of Dallas
  - Requires all new construction greater than 10,000 SF in size to meet LEED Silver level Certification (excluding renovations or expansions).
- LEED Certification
  - LEED certification is a point-based, third-party evaluation process intended to rate high performance “green buildings,” there are four certification levels:
    - Certified
    - Silver
    - **Gold**
    - Platinum
  - In the current LEED v4, the original five categories of credits have been expanded to eight:
    - Location & Transportation
    - Sustainable Sites
    - Materials & Resources
    - Energy & Atmosphere
    - Environmental Air Quality
    - Water Efficiency
    - Innovation
    - Regional Priority





# Vickery Park Branch Library- Project

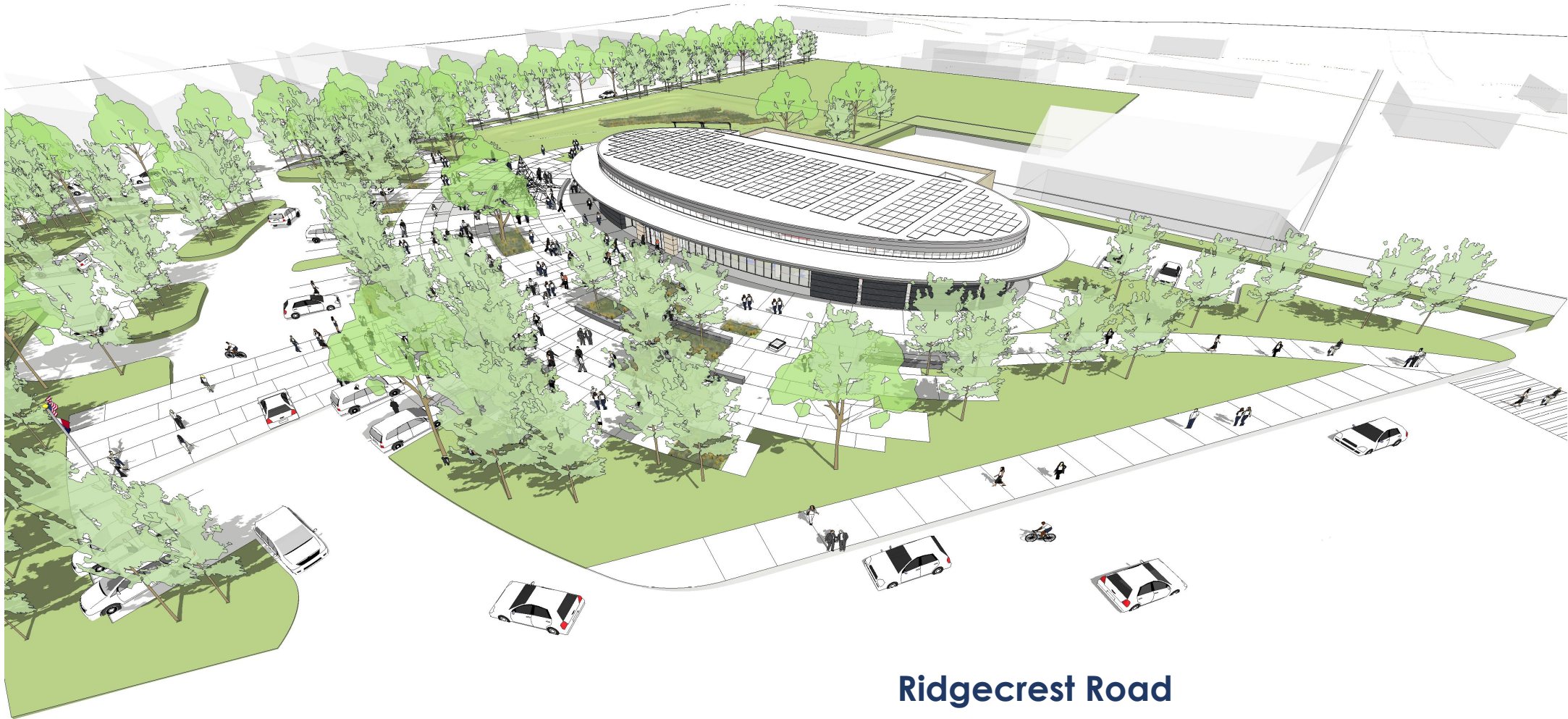


- 2030 Challenge

- All new buildings, developments, and major renovations shall be carbon-neutral by 2030.
- To achieve carbon neutrality requires the gradual annual reduction toward eventual elimination of fossil-fuel based sources of power generation, in favor of renewable sources of power generation such as wind, solar, and geo-thermal.
- For VPBL to achieve the 2030 Challenge, construction projects completed in 2020 from the national baseline average energy use/SF for libraries, the facility must attain 80% carbon emission reduction.
  - VPBL's projected reduction is >83%.



# Vickery Park Branch Library- Aerial NE



Ridgecrest Road





# Vickery Park Branch Library





A photograph of a construction site. In the foreground, a large, curved wall is covered in light-colored, rectangular panels of continuous insulation. The wall is punctuated by a grid of small, white circular fasteners. Above the wall, a complex network of steel beams and trusses forms the ceiling of a structure, possibly a bridge or a large overpass. To the left, a black scissor lift is visible. In the background, a street with buildings and a car can be seen. The image is overlaid with a blue geometric design on the right side, consisting of several interlocking hexagons.

# Continuous Insulation





**Deep Overhangs  
for shading**





# Local Materials and Native Landscaping



LED lighting

Light shelf with clearstory for natural lighting and indirect daylighting

Raised Flooring (for efficient HVAC and flexibility) & Local materials



# High Albedo (reflective) Roof







# Roof Solar Panels



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