HOLLYGROVE GREENLINE
A project of the Carrollton-Hollygrove CDC

with support from the Tulane City Center
GREENLINE GOALS:

- Re-activate unused infrastructural space within the Hollygrove neighborhood
- Educate the community on stormwater management strategies
- Provide healthy, safe, enjoyable public outdoor spaces
- Provide demonstration gardens for urban farming initiatives
View of Phase 1 Construction Looking East- NORA Water Retention Garden is at Right
SITE STRATEGIES: Neighborhood Vision

Community Garden Agriculture Farm Market Grow Learn Eat

Walk Run Bike Skate Relax Read Sit Picnic

Climb Swing Hang Jump Run Play

Sit Gather Listen Watch Learn Picnic Concert Market Event

Delay Collect Move Store Filter Reuse
RAINWATER CATCHMENT

4, 11’ x 16’ tents

176 SF each_704 sf total

In theory, a rainwater harvesting system can collect approximately 0.62 gallons of water per square foot of roof area, per inch of rainfall. Given loss due to first flush, evaporation, splash-out, overshoot, and possible leaks we assume an efficiency of about 75 to 85 percent for the system.

In New Orleans, using a collection rate of 0.62, a system efficiency of 0.75, and an average annual rainfall of 64 inches, we can expect to collect about **21,000** gallons of rainwater per year (0.62 x 0.75 x 704 x 64 = 20,951 gallons per year).

**Sizing the water tank**

Average number of rainy days per year: 62
On an average rainy day you could expect to collect
\[0.62 \times 0.075 \times 176 \times 1 = 82\] gallons per inch of rain per bay

Young trees require 1.5” of rain per week/ 25 gallons per tree
Number of weeks without 1.5” of rain in New Orleans?

Height of tank

The tank should be elevated so gravity eliminates the need for a pump. Each gallon of water weighs 8 lbs so a 100 gallon tank would weigh 800 lbs.
**SITE ELEMENTS**

- **PATHWAYS + EDGING**
  concrete walkway + edging, with crushed limestone strips

- **LINE OF TREES**
  5 shade trees - SHUMMARD OAKS
  spaced 16 ft apart; benches underneath

- **RAIN GARDEN**
  rain garden at lowest point of site, to drain site

- **SHADE + WATER PAVILION**
  tree “marker”, at site entry
1 - water vessels | drain to rain gardens
2 - linear bench | water trough
3 - table | water cascade
4 - gate | raised water collection
5 - textile funnels | shade; water collection
6 - pavilion structure | 4 x 4 HTS steel
7 - raised water tank | 275 gallons
8 - water gardens