

**FARR ASSOCIATES**

Architecture | Planning | Preservation



**RIGHT AS RAIN: Safe & Sustainable Water Reuse**

Jonathan Boyer | Principal, Farr Associates

# FARR ASSOCIATES

Architecture | Planning | Preservation



Interiors



Architecture



Preservation



Districts & Neighborhoods



Corridors



Cities & Codes

→ From Room  
to Region →

Implementing sustainable urbanism from room to region, where every increment of architecture and planning aspires to perfect the city.





# CHICAGO CENTER FOR GREEN TECHNOLOGY

Chicago, Illinois

2003 | 3rd LEED Platinum building in the world







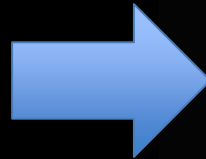
# YANNELL NET-ZERO ENERGY RESIDENCE

Chicago, Illinois

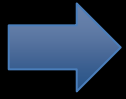


2009 | LEED-H Platinum- Highest Scoring Project 15.5 points

## Chicago's 1st Residential Greywater System







Lint Filter



Chlorine



Water Filtration



Greywater Tank



UV Filter



Pump to Toilet





**Rain Water Catchment**



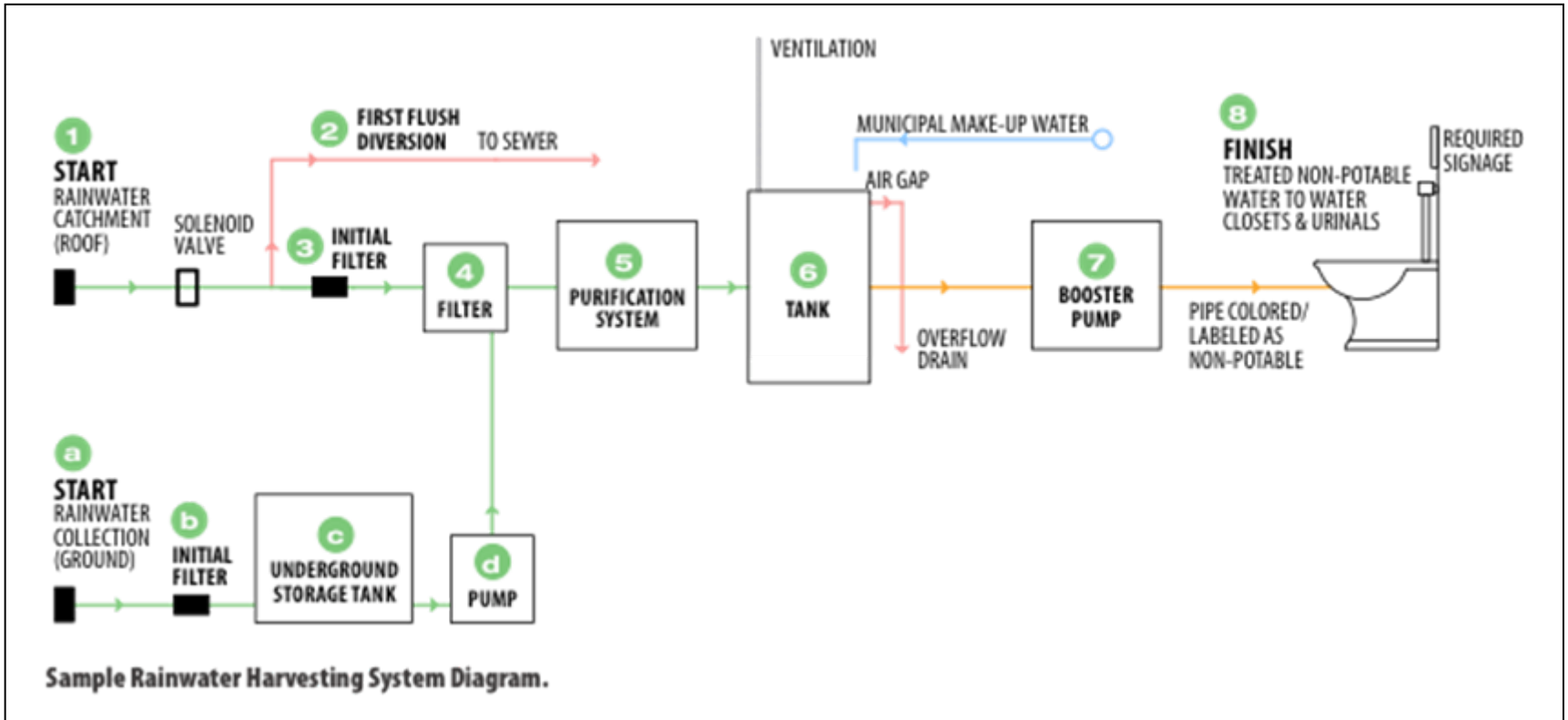
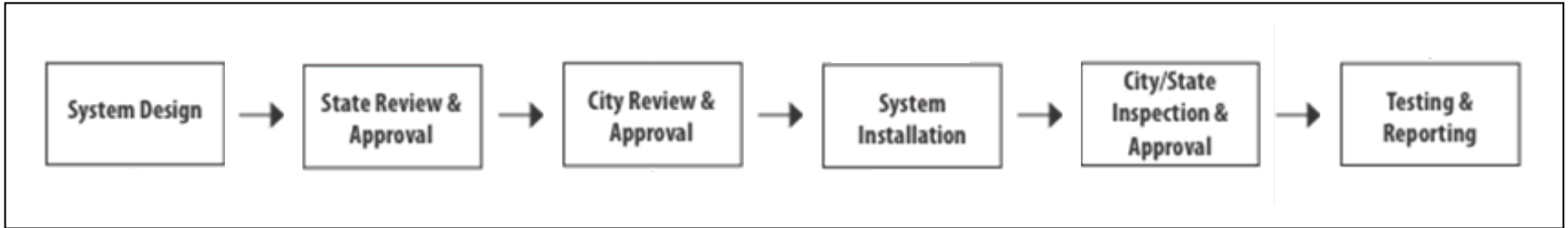


# HARMONY HOUSE

Chicago, Illinois



# Regulatory Realities





# LEED® for NEIGHBORHOOD DEVELOPMENT™

## LEED-ND Water Strategies



2010 | Whistler Crossing- 1st LEED-ND Stage 3 in Illinois

# LEED-ND WATER STRATEGIES



Minimum Building Water Efficiency Prerequisite  
20% less than baseline water use for all buildings

## Commercial fixtures, fittings, or appliances

Commercial toilet

Commercial urinal

Commercial lavatory (restroom) faucet

Commercial prerinse spray valve (for food service applications)

## Residential Fixtures, Fittings, and Appliances

Residential toilet

Residential lavatory (bathroom) faucet

Residential kitchen faucet

Residential showerhead

A LEED-ND site is effectively a **Floating Water Efficiency Code**



# LEED-ND WATER STRATEGIES

## Stormwater Management Credit

Retain at least 80% of average rainfall events

over 20-40 year period - determined by National Climate Data Center

Percentile rainfall event (total volume to be retained)	Points
80%	1
85%	2
90%	3
95%	4



# UPTOWN CIRCLE

Normal, Illinois



2009 | LEED-ND Silver Certified – Stage 2

Landscape Architecture by Hoerr Schaudt



# HARPER COURT

Chicago, Illinois



2012 | LEED-ND Gold Target



Open NOW – Spring 2011

CHICAGO ARCHITECTURE FOUNDATION

# NEIGHBORHOODS GO GREEN! SCALING UP SUSTAINABILITY

- ➔ **The *Neighborhoods Go Green!* exhibition explores the construction and certification of green neighborhoods.**
- ➔ **By thinking on a larger scale, we can reorganize the places we live and work and dramatically reduce the impact of our lives on our neighborhoods—and on planet Earth.**

Generous support for *Neighborhoods Go Green!* provided by:



CHICAGO ARCHITECTURE FOUNDATION



*A first-ever exhibit about  
LEED for Neighborhood Development*