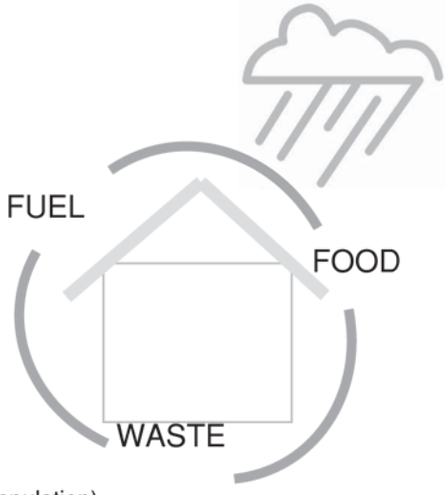
PROPOSED
SYSTEM

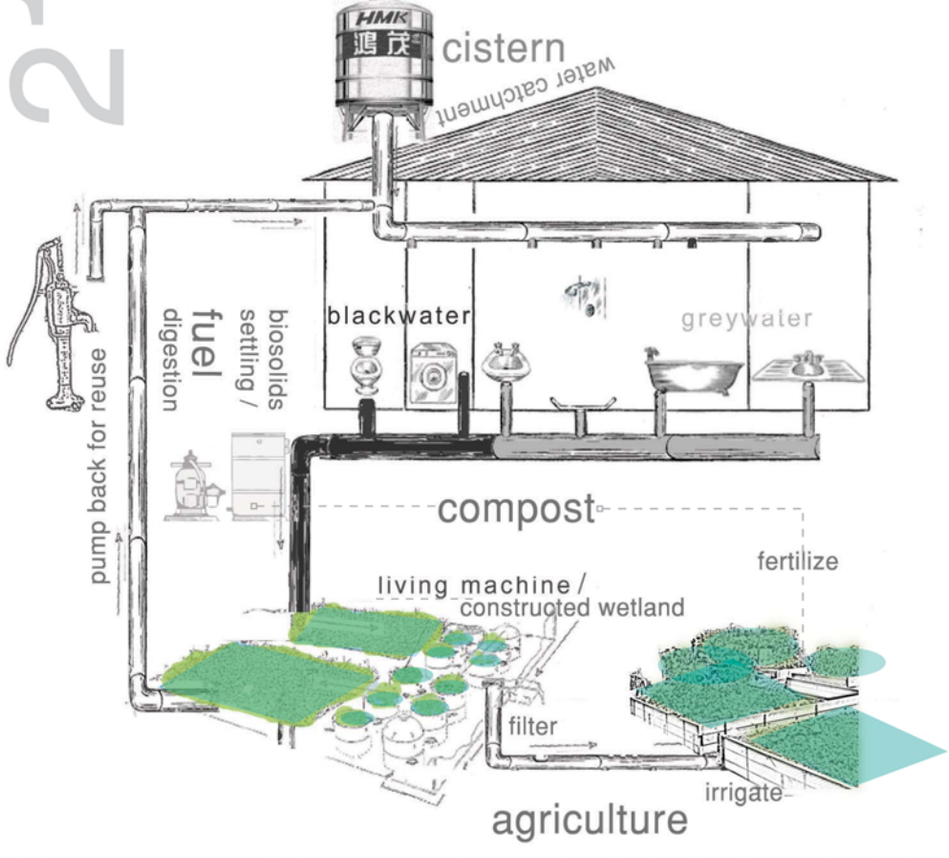
LOCAL
TREATMENT
BALLARD ECOVILLAGE
P.E.E. STREETS

32,000 sq ft ROW per block



2100

180 ppl per block (double the population)
70 gpd used per person (better water-saving technologies)
13,000 gpd per block



area required:
23,000 sq ft

360 ppl per block
(denser area serving 2x population)

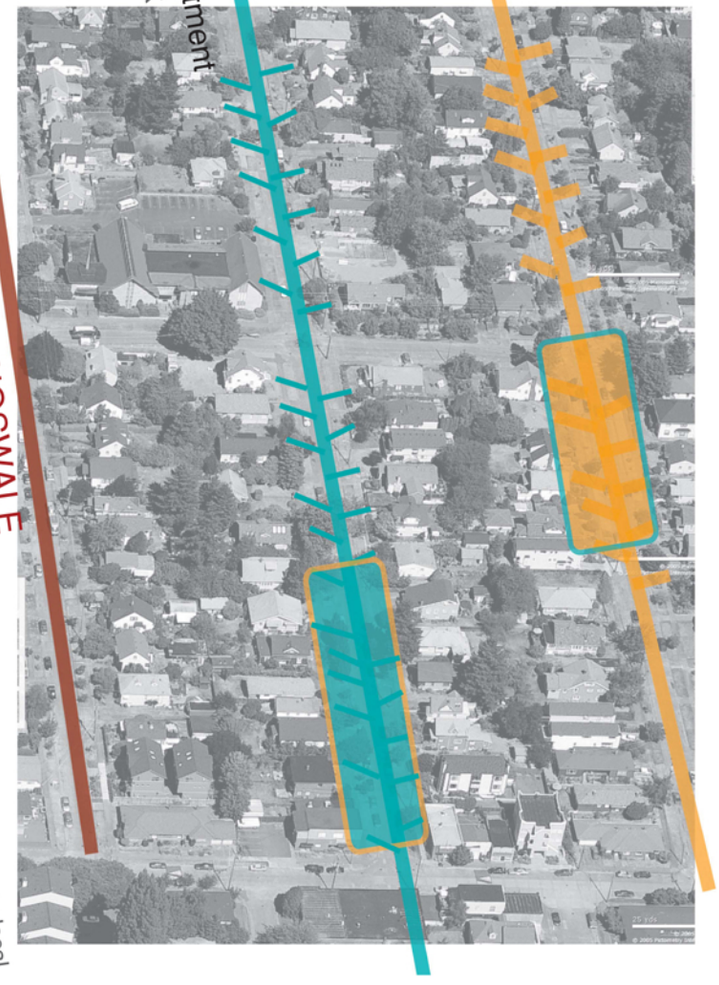
25,000 gpd per block

area required:
biosolids holding:
100 sq ft
greenhouse:
1600 sq ft
system:
1500 sq ft

CONSTRUCTED WETLAND
black+greywater treatment
13,000 gpd per block

LIVING MACHINE
black+greywater treatment
25,000 gpd per block

BIOSWALE
stormwater retention
on limited narrow roads; the closed streets are now for local waste treatment + recycling... pee streets + peepee patches!



CONSTRUCTED WETLAND
cost:
$10 per sq ft
$230,000
source: Reed, Crites, and Middlebrooks

LIVING MACHINE
cost:
$300 per sq ft
$500,000
source: Living Machine product sheet

BALLARD P.E.E. STREETS [PROGRESSIVE.ECOLOGICAL.EDGES]

BALLARD-SHIPCANAL

TEAM LEADER(S): [A] YES DUFFY + BROOKE MCCURDY; [B] MELANIE DAVIES + VIC OPPERMAN **TEAM MEMBERS:** [A] RAY BERNTSEN, REBECCA BUTTITTA, KELLY COLLINS EARLY, CRAIG HOLLOW, KATE HOWE, RICHARD JOYCE, JILL KELLER, JAPHET KOTEEN, KATHLEEN MORRIS, ED SCHEIN, ZACK THOMAS; [B] BOB BAINES, DAVE BOYD, MARK BRANDES, JOSH DISTLER, TOM EARLY, ANDREA FASTE, JENNY HEINS, AARON KAHN, INGRID LUNDIN, ANN SCHEERER, DULCE SETTERFIELD, BRIDGET SMITH, SAM STAR, INGELA WANERSTRAND **STUDENT TEAM LEADERS:** VANESSA N LEE + ELIZABETH A D POWERS