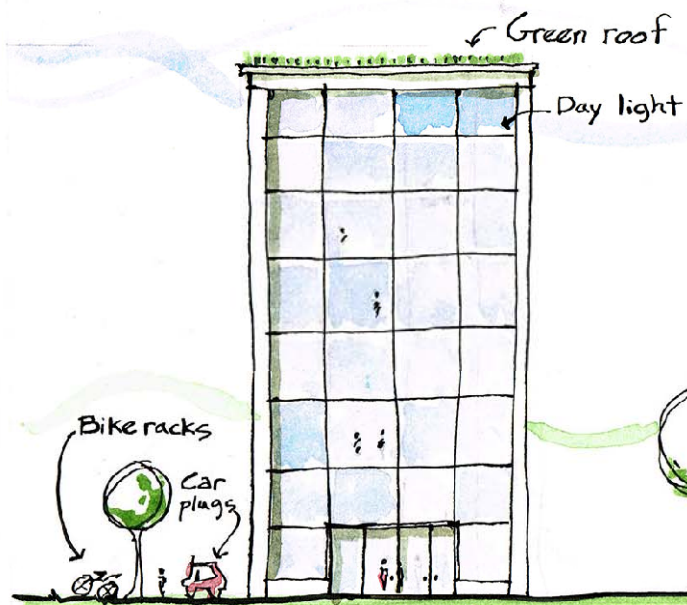
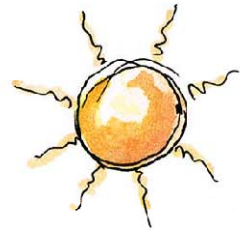


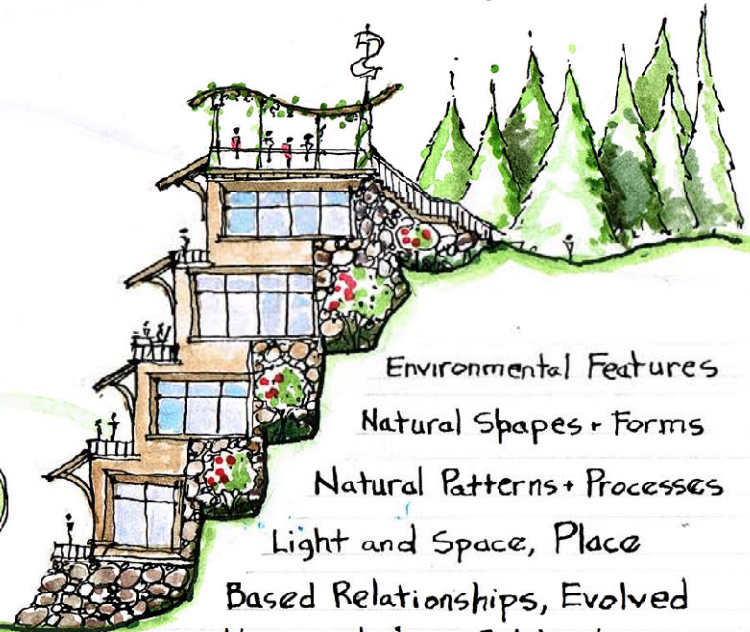


Living Technologies for the Intensification of Urban Agriculture

**John Todd Ph.D., NSF Vertical
Farming Workshop,
Sept. 26-27,2012**



LOW IMPACT
DESIGN
LEED-PLATINUM



BIOPHILIC & RESTORATIVE
ENVIRONMENTAL DESIGN

elizabeth calabrese

Eco-Machines

For Waste Treatment, Nutrient
Recovery & Food Production















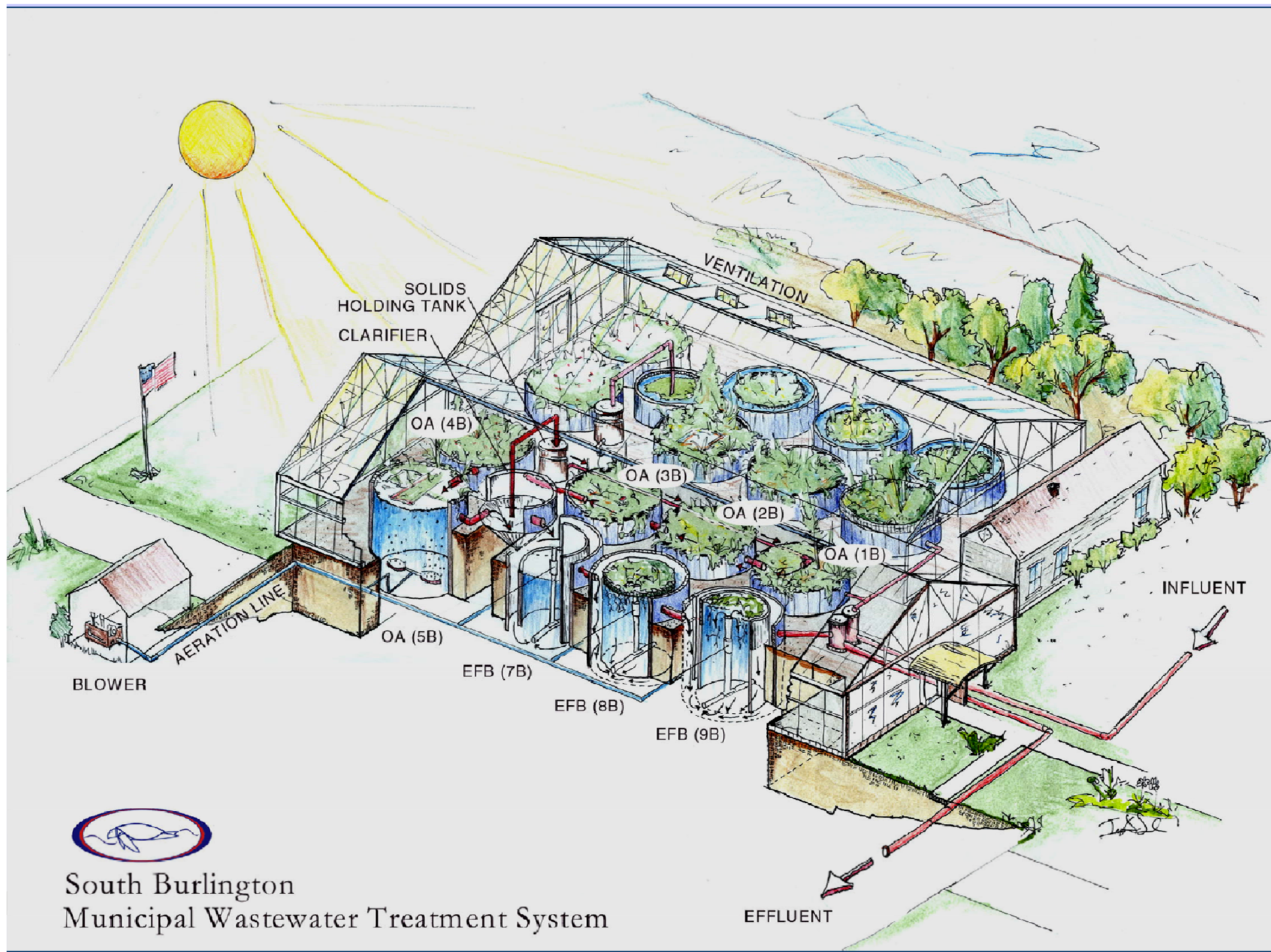
**A THIRDPARTY LIVING MACHINE
FOR ADVANCED WASTEWATER TREATMENT**

TO BE USED TO TREAT WASTEWATER TO PROTECT THE QUALITY OF
THE RIVER AND LAKE WATER IN COMPLIANCE WITH THE CITY OF
BOSTON REGULATIONS

DESIGNED BY: THIRDPARTY LIVING MACHINE, INC., BOSTON, MA
THE LIVING MACHINE, INC., BOSTON, MA
CONSTRUCTION: JAMES CONSTRUCTION, INC.,
BOSTON, MA
OPERATION: JAMES CONSTRUCTION, INC.,
BOSTON, MA
MAINTENANCE: JAMES CONSTRUCTION, INC.,
BOSTON, MA
OPERATION: JAMES CONSTRUCTION, INC.,
BOSTON, MA
MAINTENANCE: JAMES CONSTRUCTION, INC.,
BOSTON, MA







South Burlington
Municipal Wastewater Treatment System









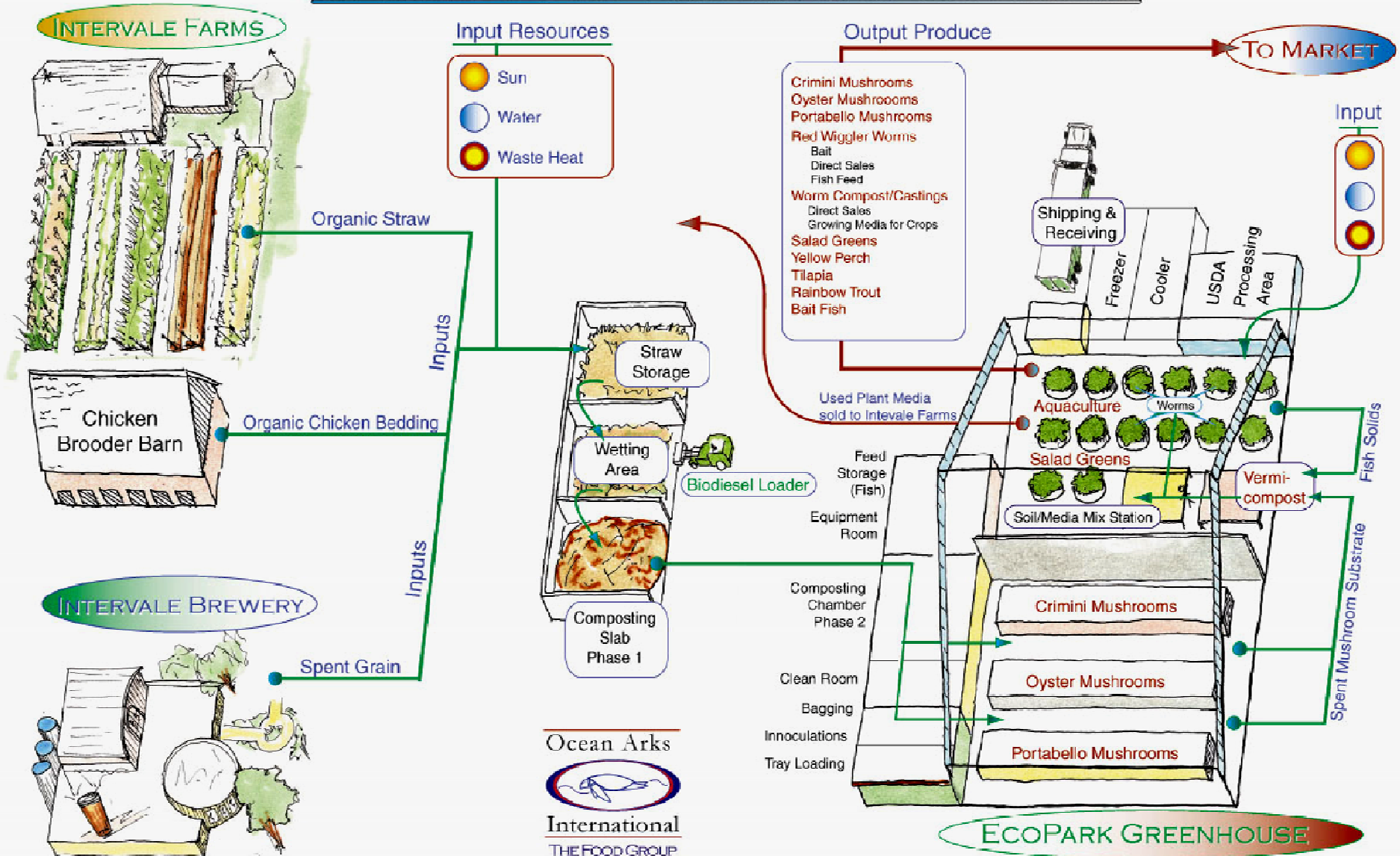






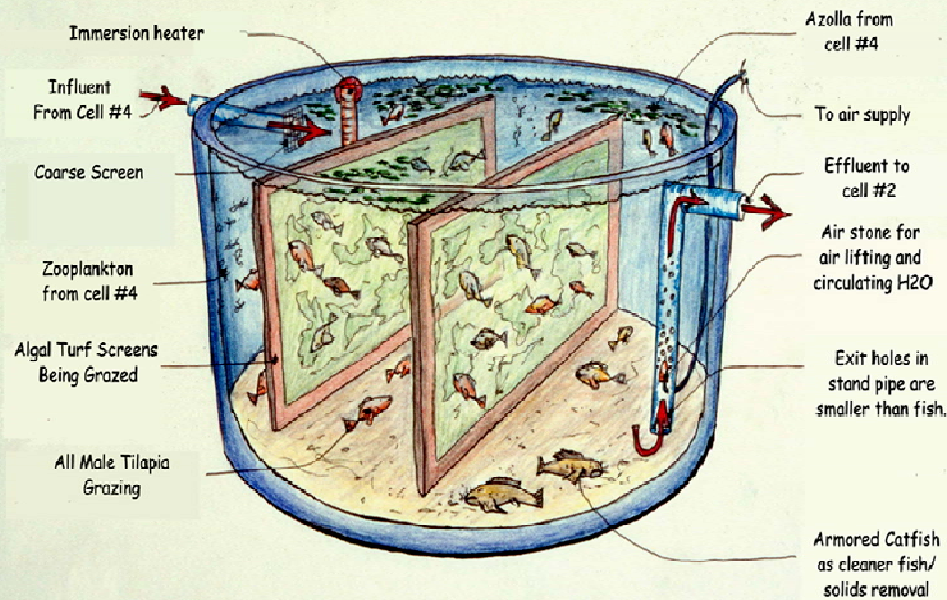


INTEGRATED FOOD PRODUCTION AT THE ECOPARK

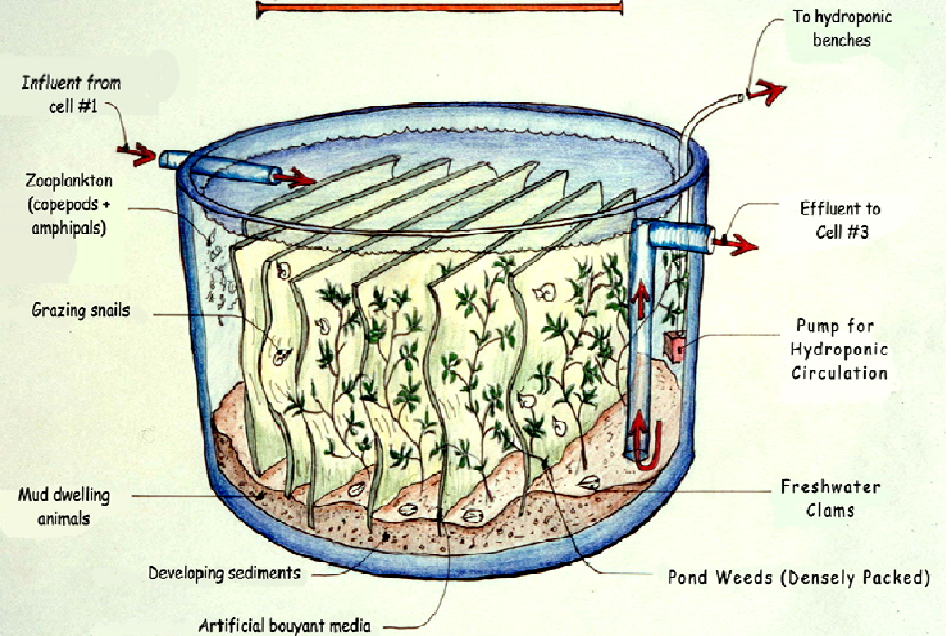




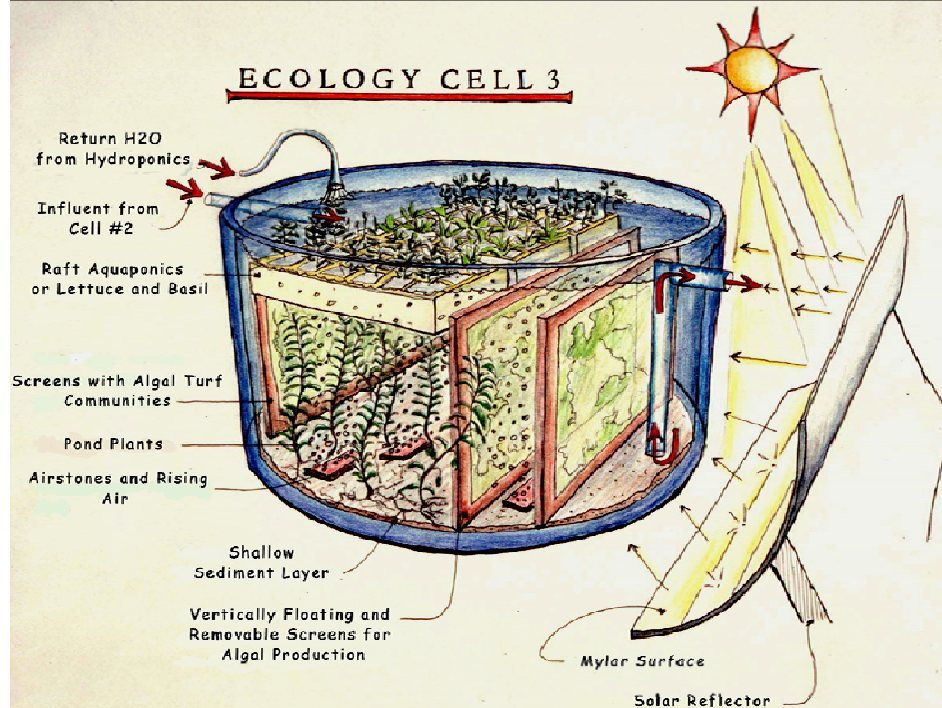
ECOLOGY CELL 1



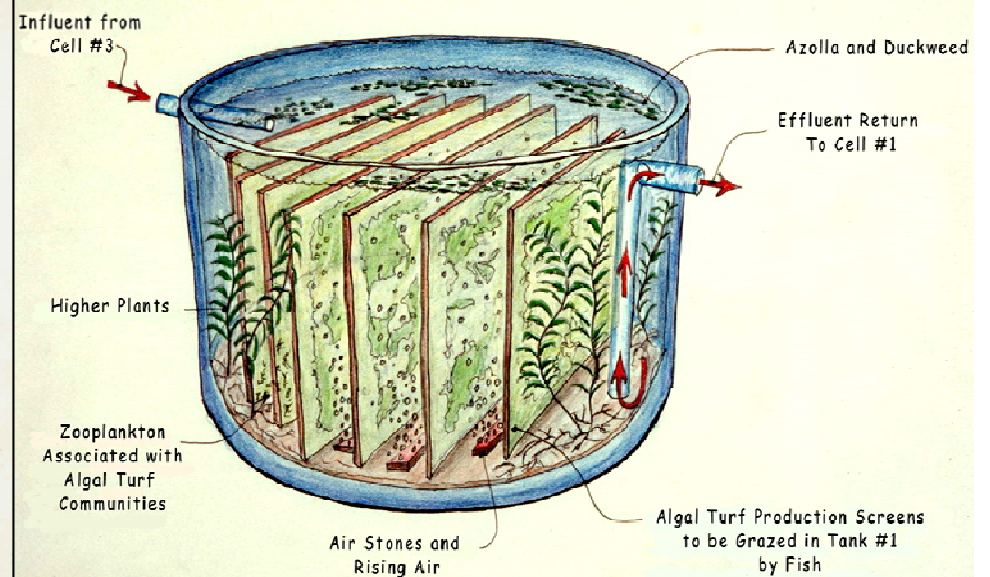
ECOLOGY CELL 2



ECOLOGY CELL 3



ECOLOGY CELL 4





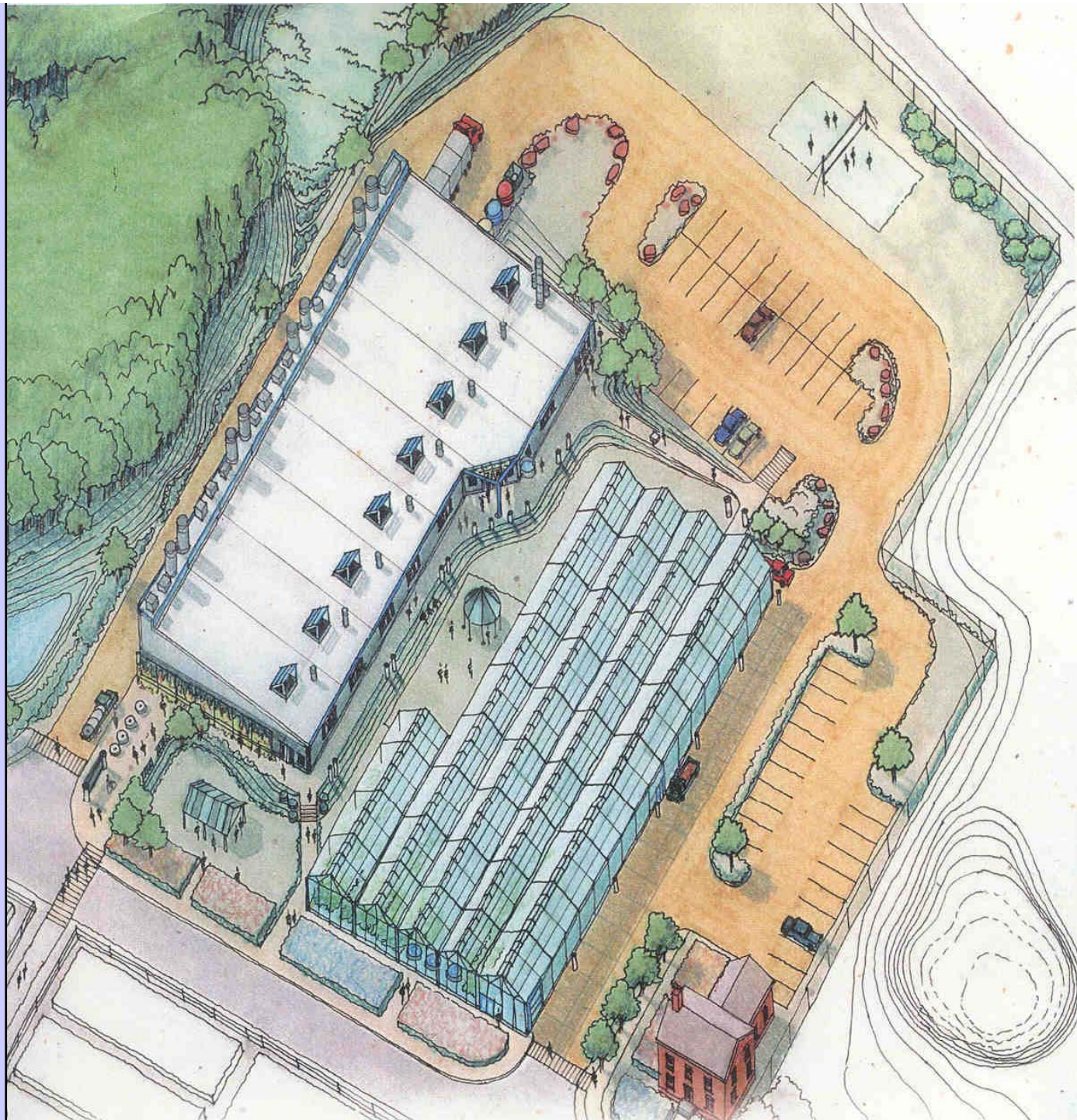


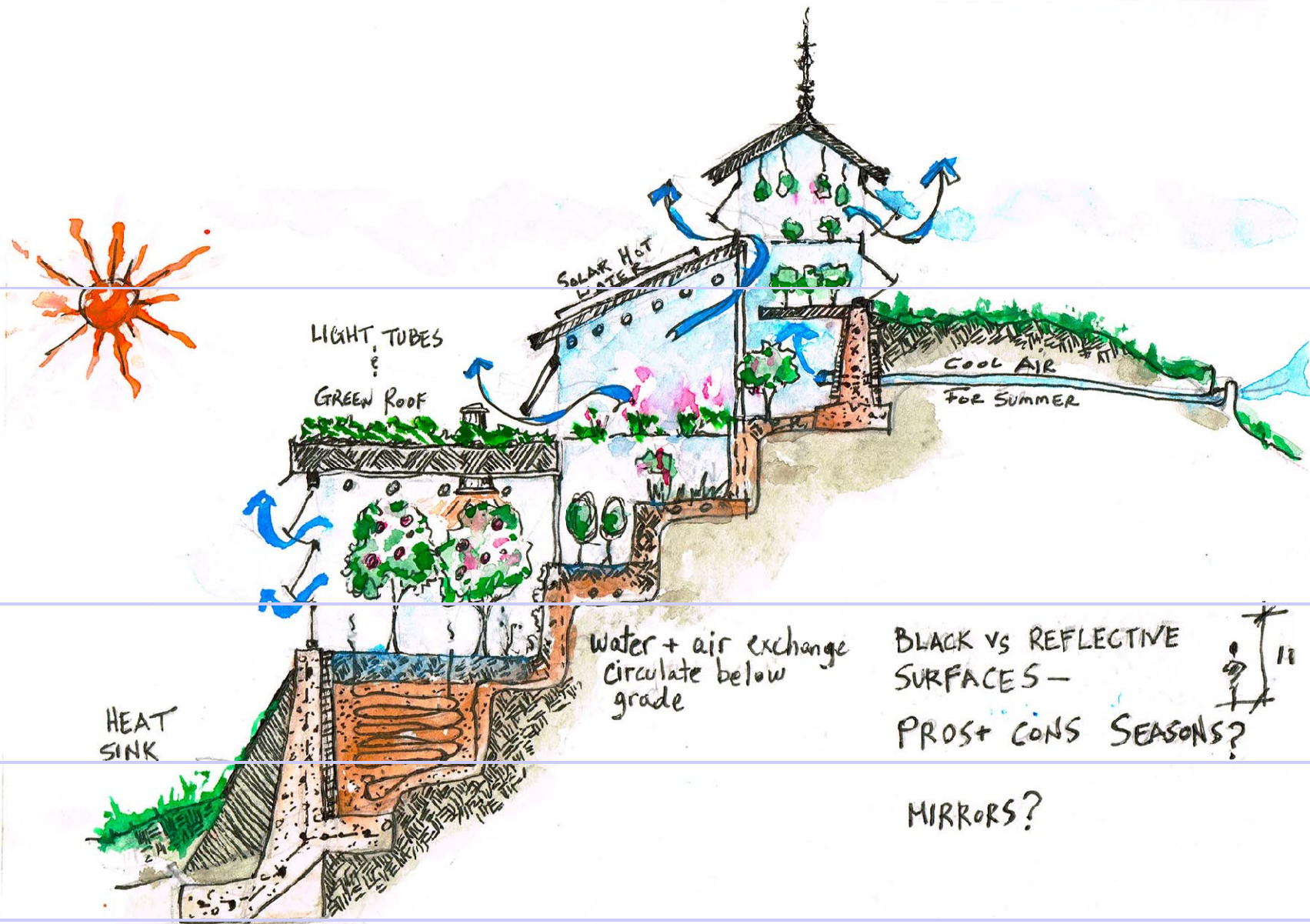












HEAT
SINK

Water + air exchange
circulate below
grade

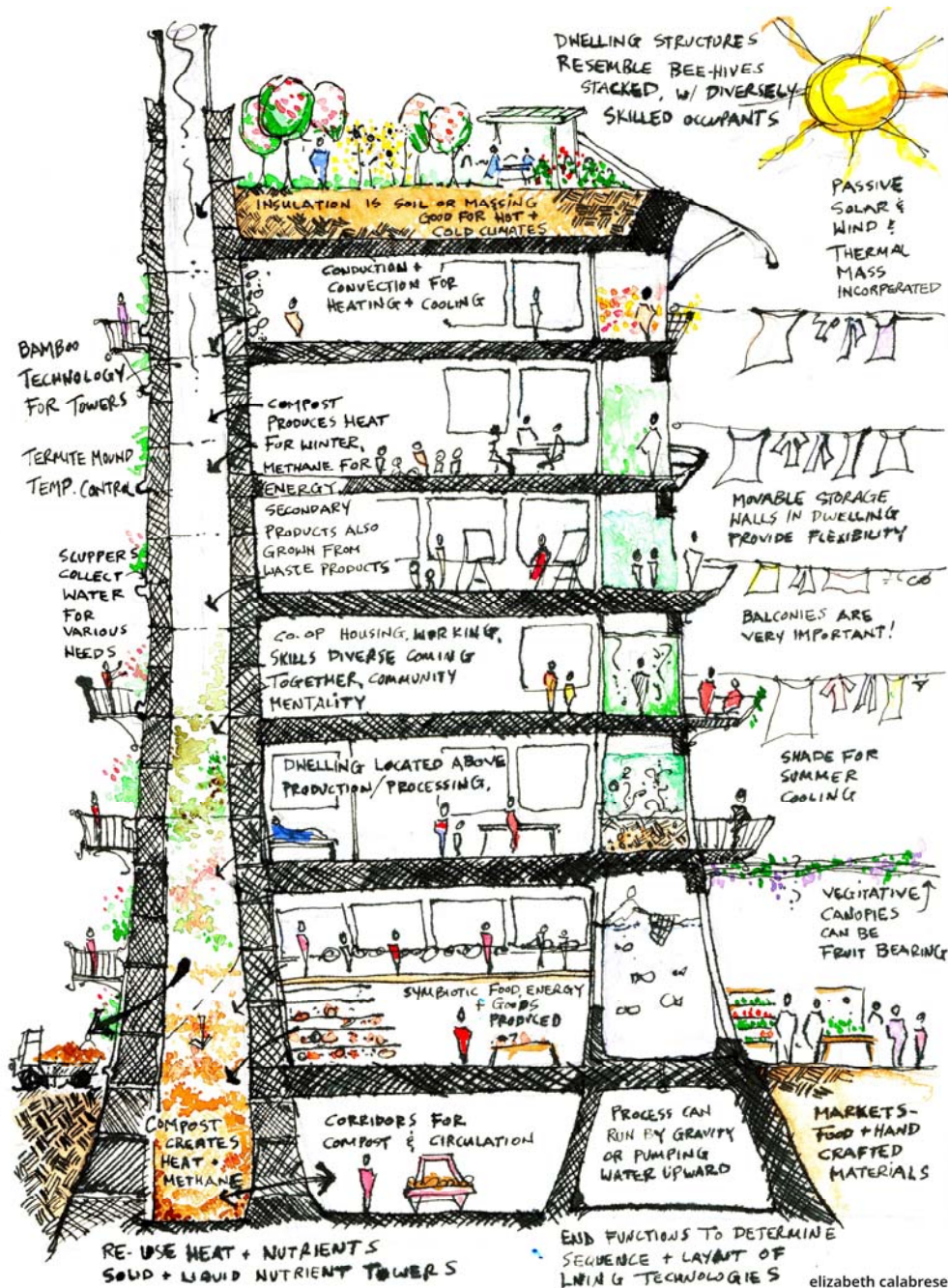
BLACK VS REFLECTIVE
SURFACES —

PROS+ CONS SEASONS?

MIRRORS?

winter air enters thru heat sink

← SOUTH NORTH →



END FUNCTIONS TO DETERMINE
SEQUENCE + LAYOUT OF
LIVING TECHNOLOGIES

elizabeth calabrese



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