University of Massachusetts Amherst

Nature Revealed Through the Built Environment: Re-envisioning the Clifford A. Phaneuf Environmental Center

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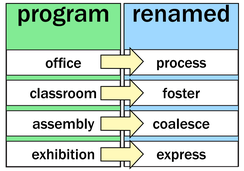
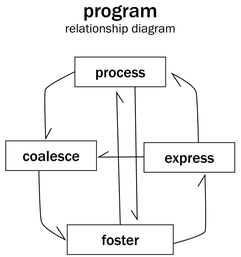
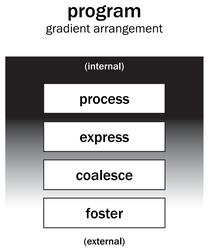
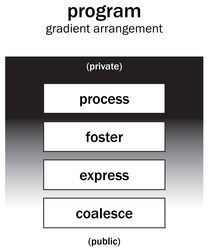
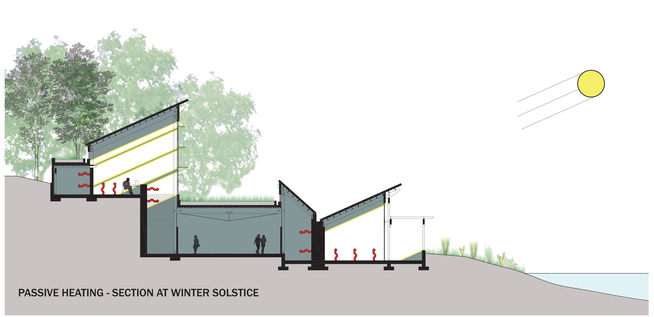
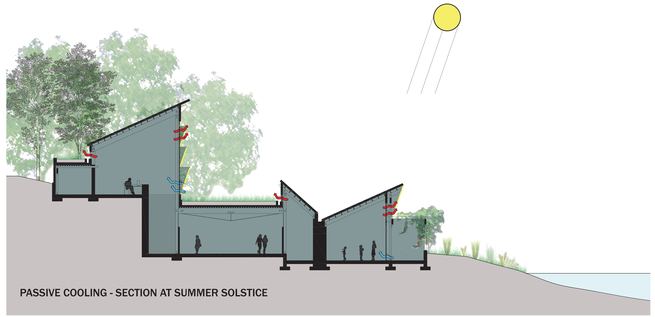

program
renamed
office
process
classroom
foster
assembly
coalesce
exhibition
express

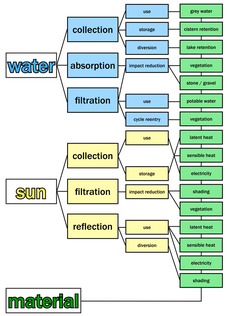

program
relationship diagram
process
coalesce
express
foster

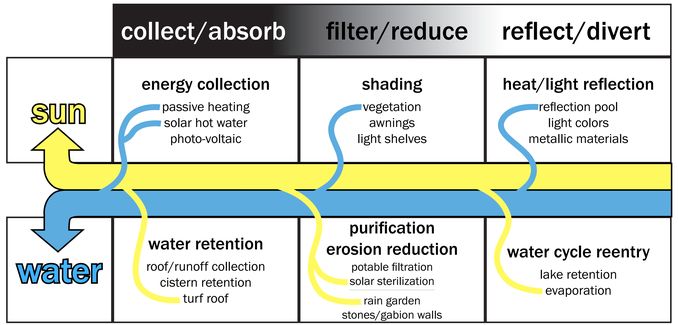

program
gradient arrangement
(internal)
process
express
coalesce
foster
(external)

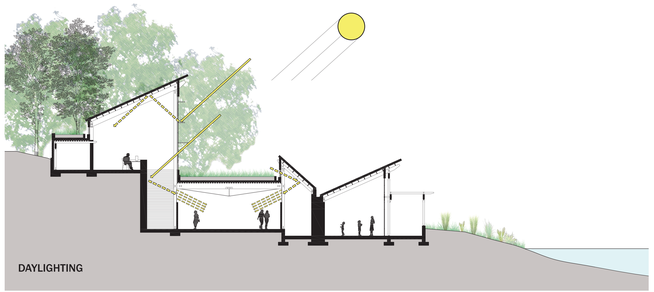

program
gradient arrangement
(private)
process
foster
express
coalesce
(public)

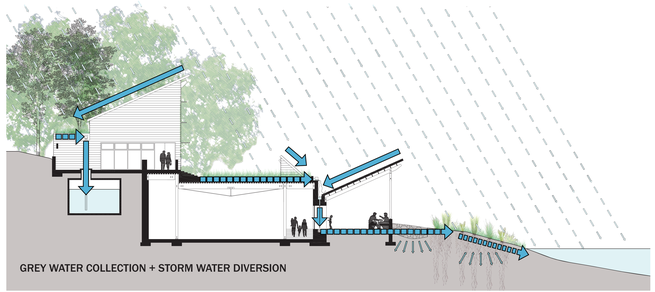

PASSIVE HEATING - SECTION AT WINTER SOLSTICE


PASSIVE COOLING - SECTION AT SUMMER SOLSTICE


water
collection
use
storage
grey water
cistern retention
absorption
diversion
impact reduction
lake retention
vegetation
stone / gravel
filtration
use
cycle reentry
potable water
vegetation
sun
collection
use
storage
latent heat
sensible heat
electricity
filtration
impact reduction
shading
vegetation
reflection
use
diversion
latent heat
sensible heat
electricity
shading
material


collect/absorb
filter/reduce
reflect/divert
sun
energy collection
passive heating
solar hot water
photo-voltaic
shading
vegetation
awnings
light shelves
heat/light reflection
reflection pool
light colors
metallic materials
water
water retention
roof/runoff collection
cistern retention
turf roof
purification
erosion reduction
potable filtration
solar sterilization
rain garden
stones/gabion walls
water cycle reentry
lake retention
evaporation


DAYLIGHTING


GREY WATER COLLECTION + STORM WATER DIVERSION