



what is a "classroom"?





third space . . .



...it's what the students drew

third space

Provide opportunities for interactive learning : “Learning by Doing”

Provide opportunities for active, creative social interactions

Demonstrate core curriculum

Inspire students to become curious, independent thinkers

Promote physical activity

Support both independent learning + collaborative activity

Promote excitement for students towards coming to school + learning

**we will create a safe
and welcoming place
for students and the
community**



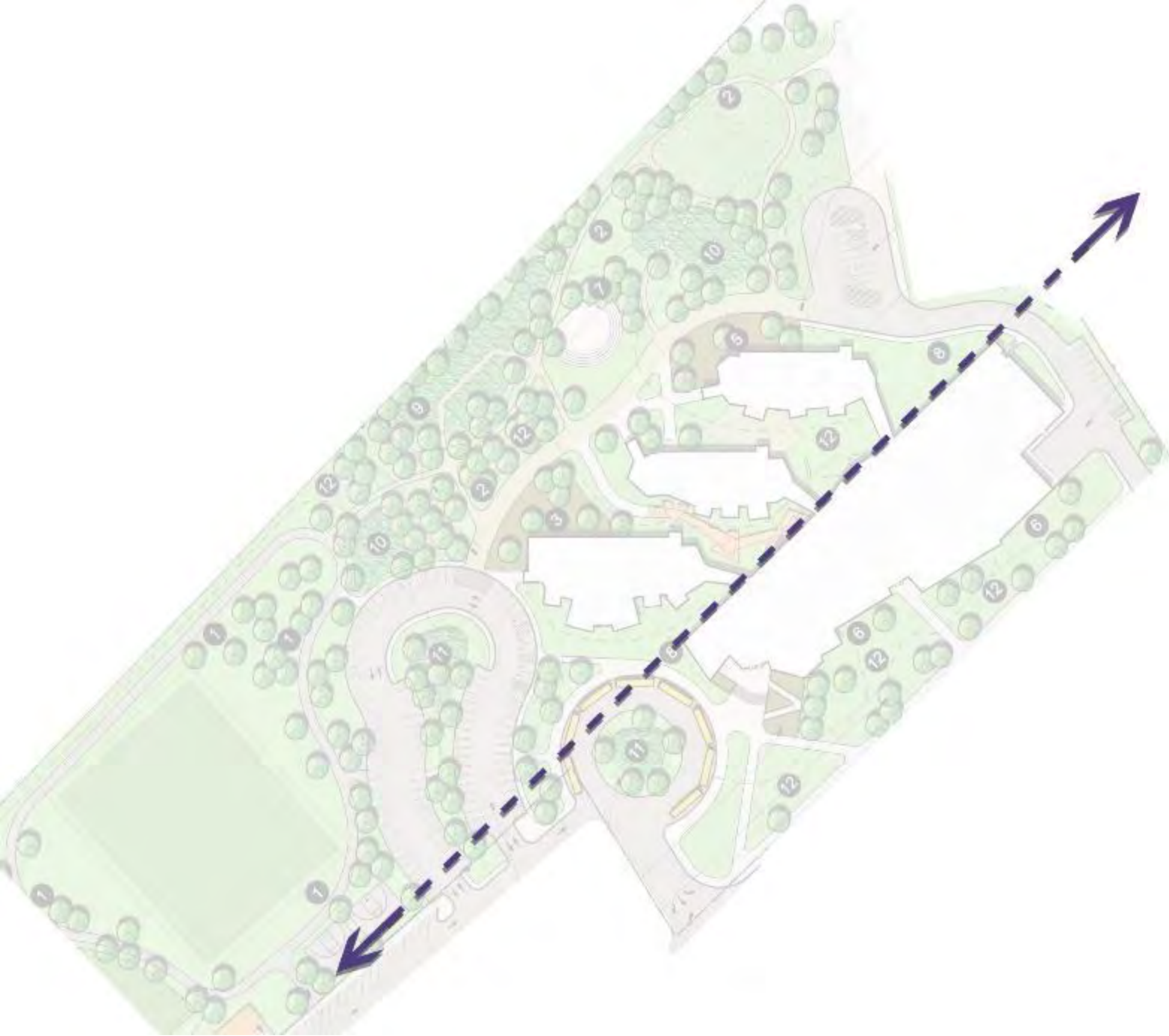
refuge

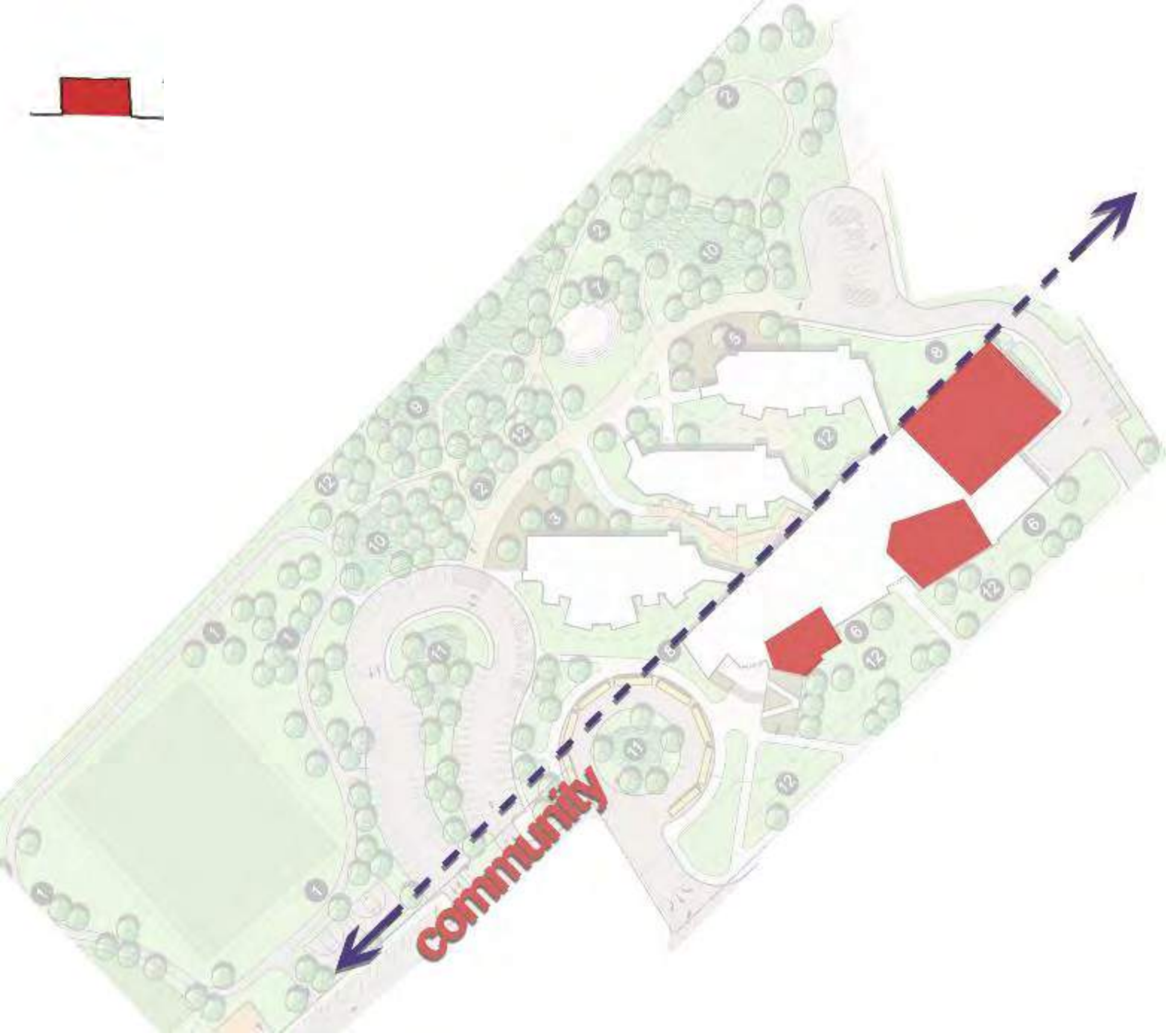
prospect

design

the stack :

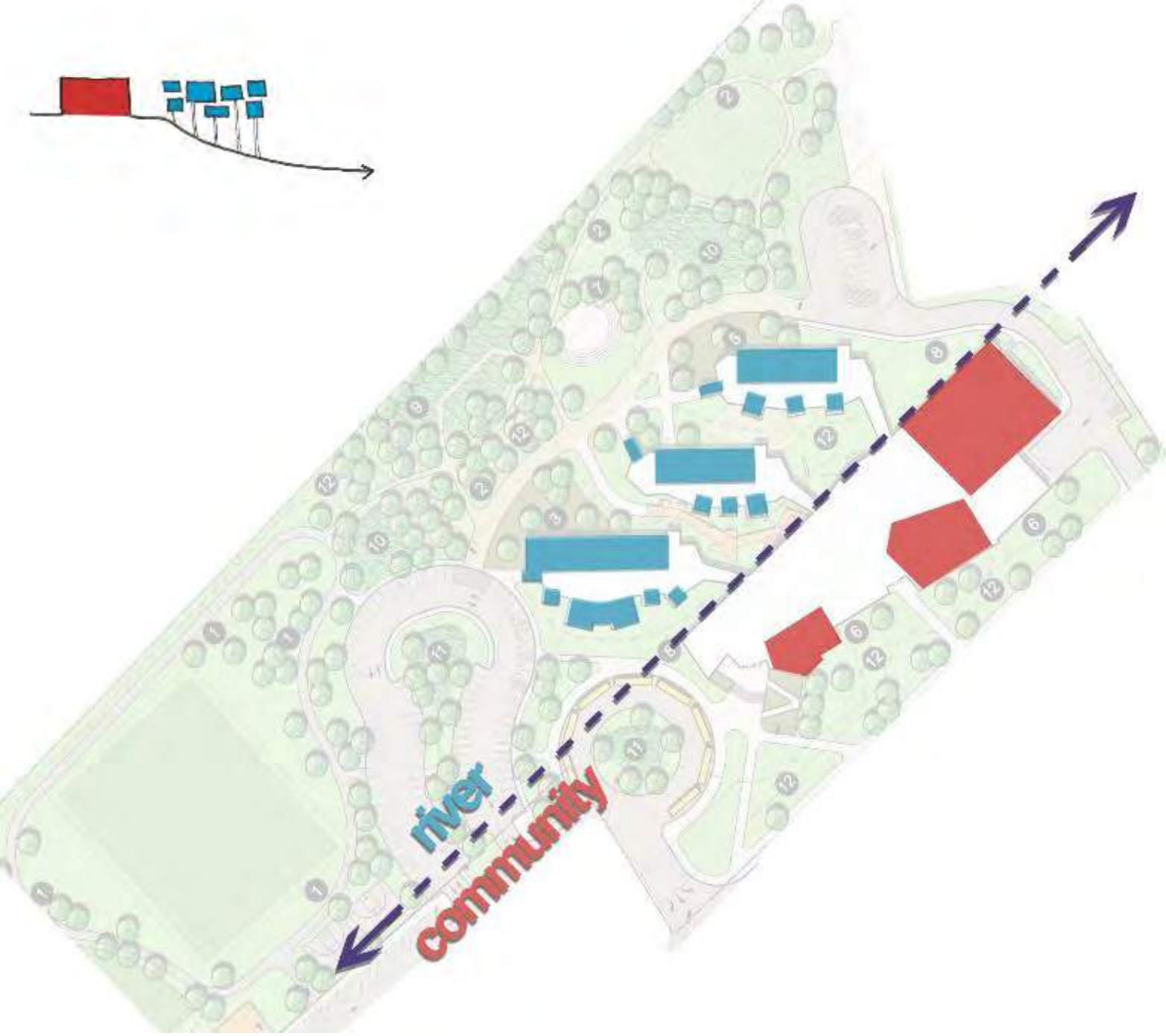
building + site as markers of system flows

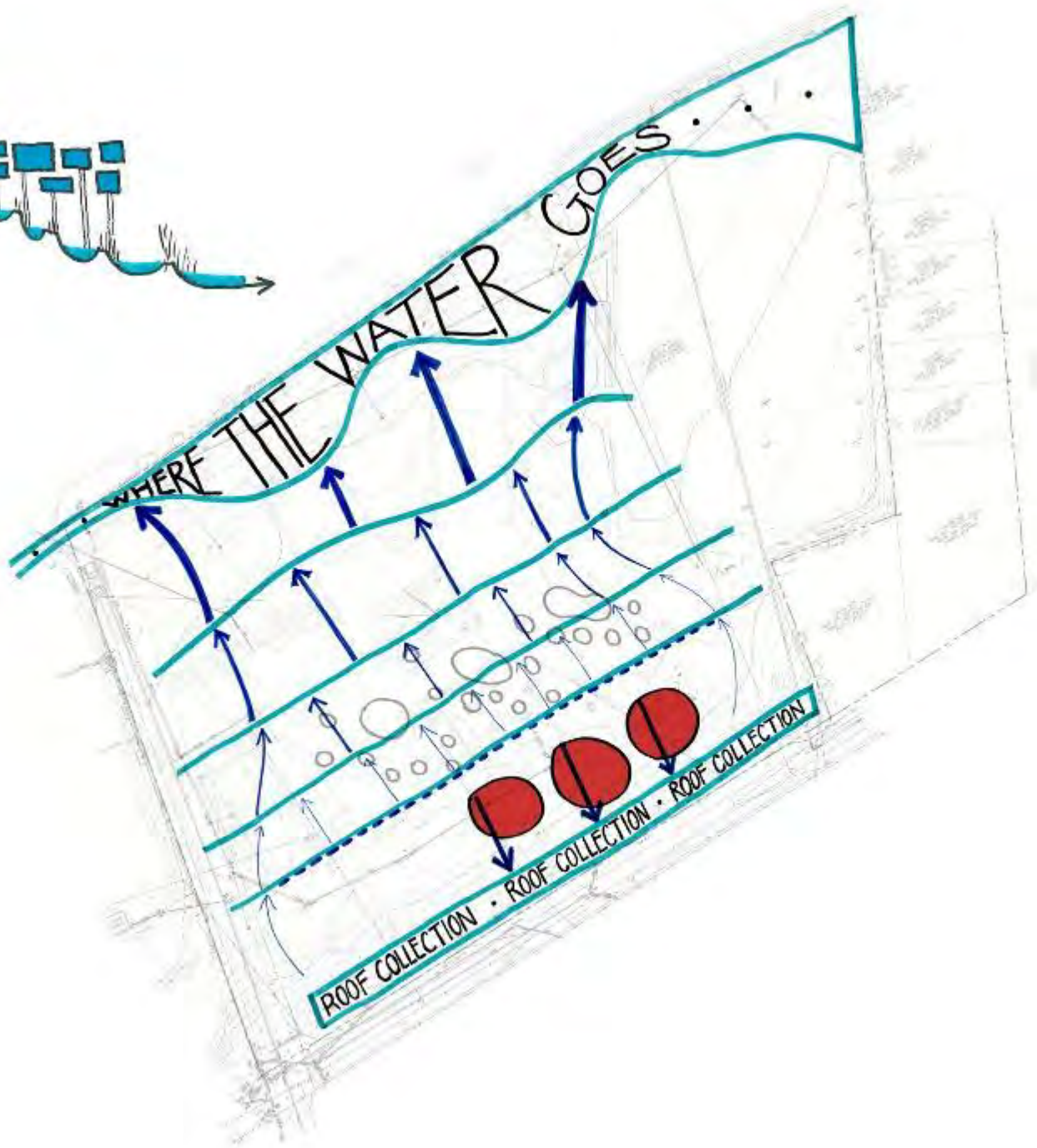
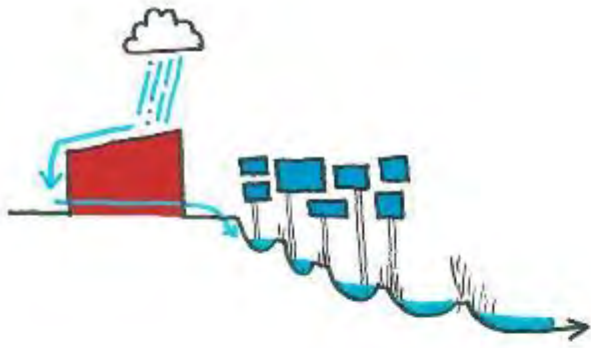


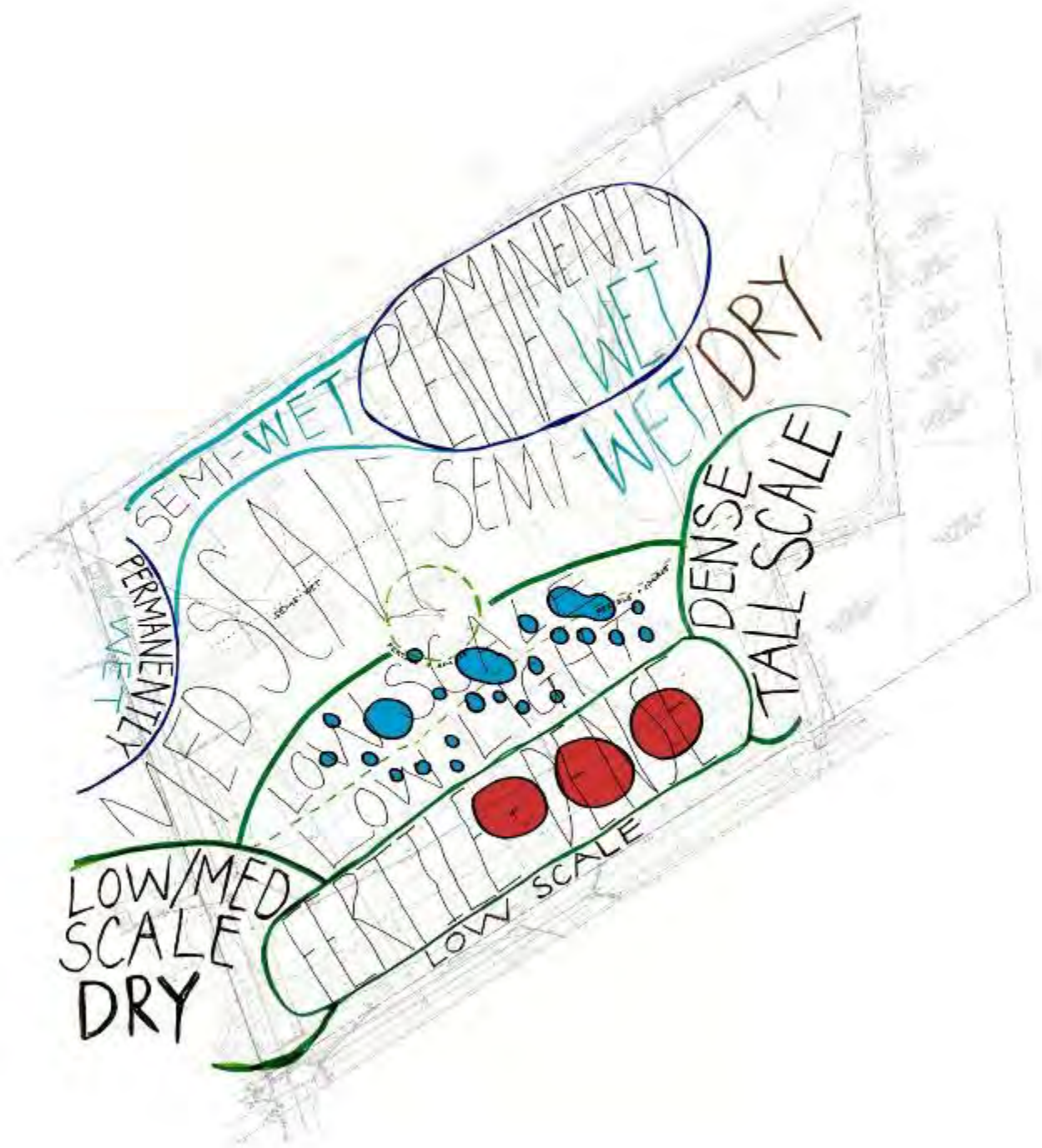


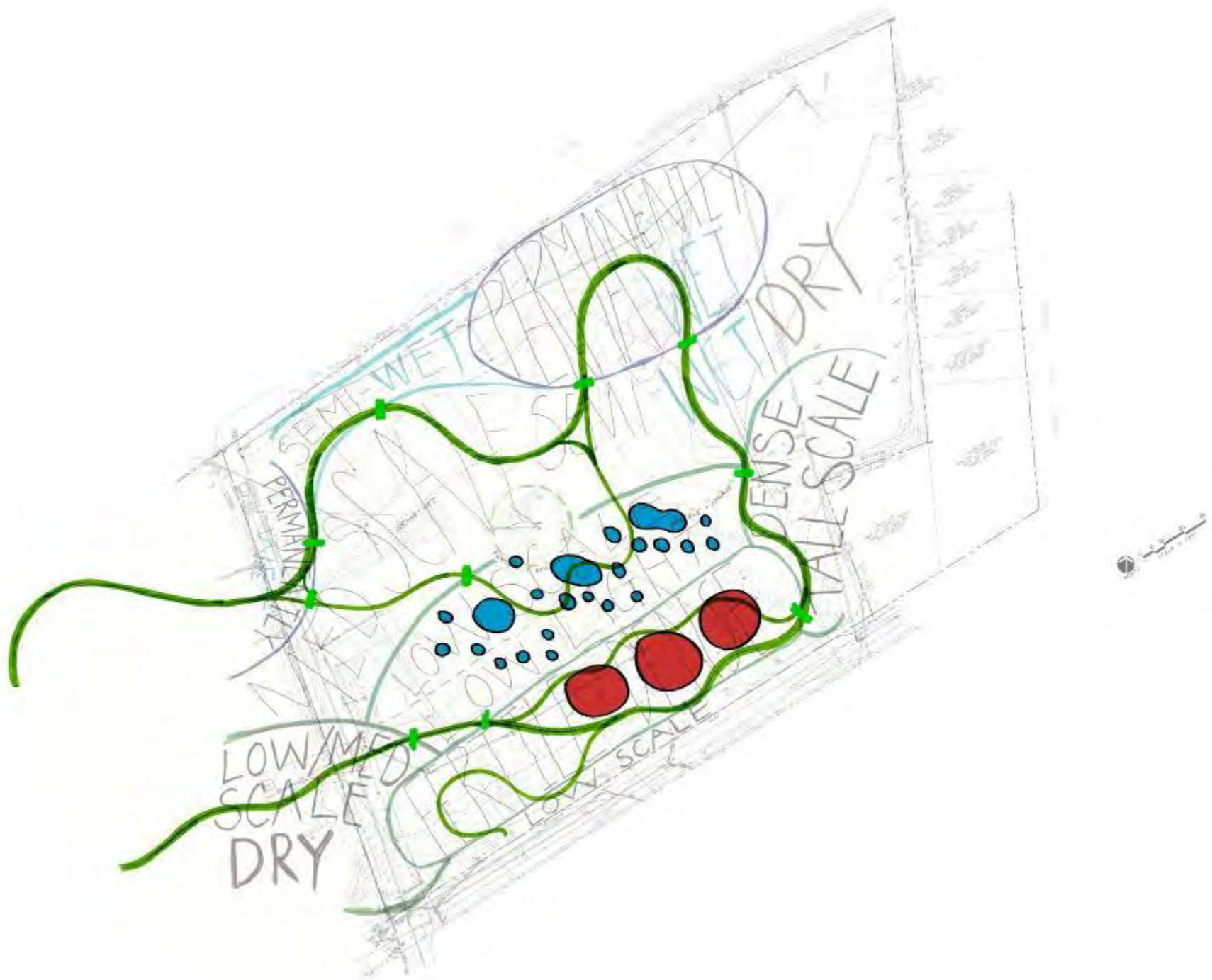
Community

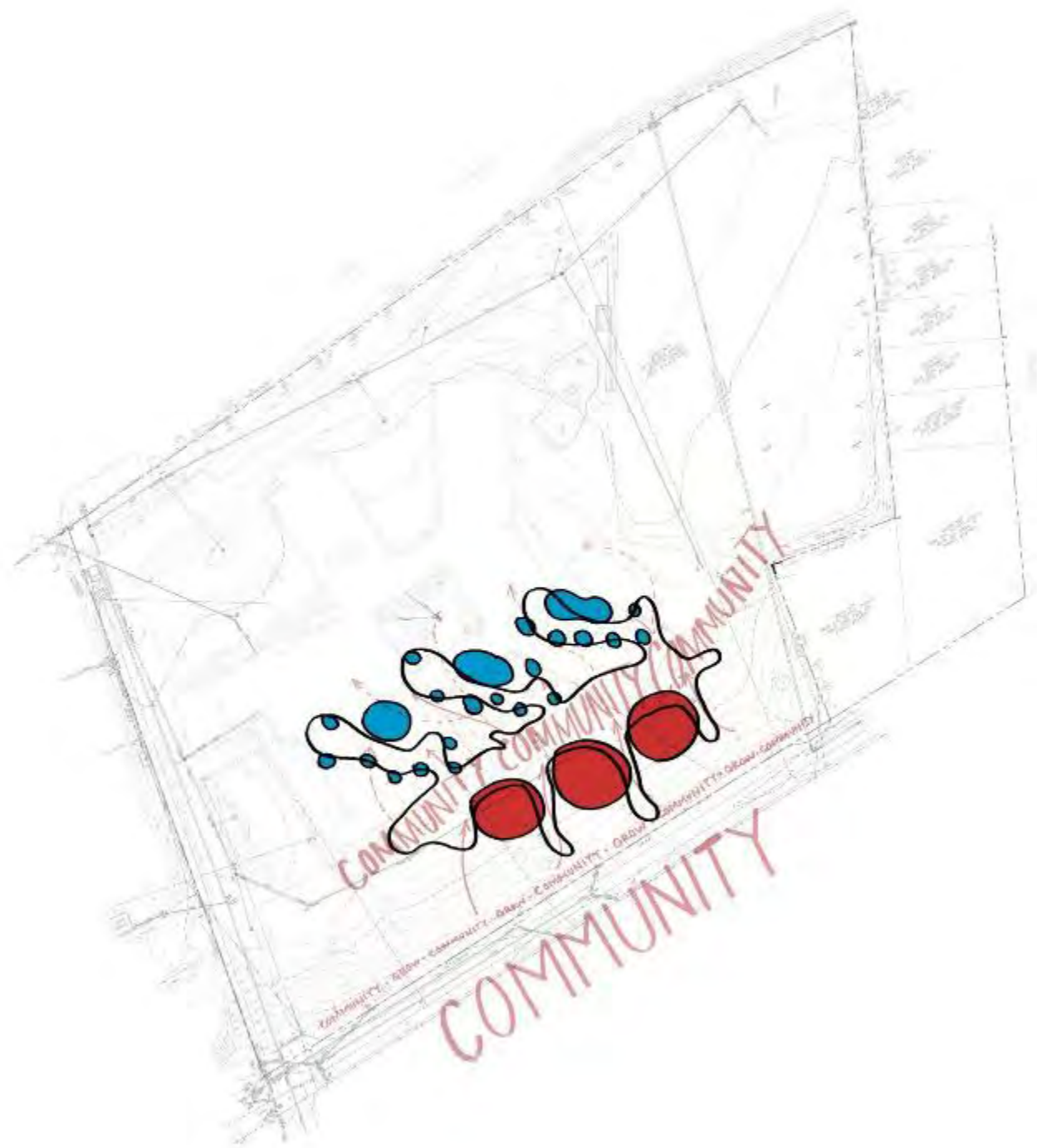








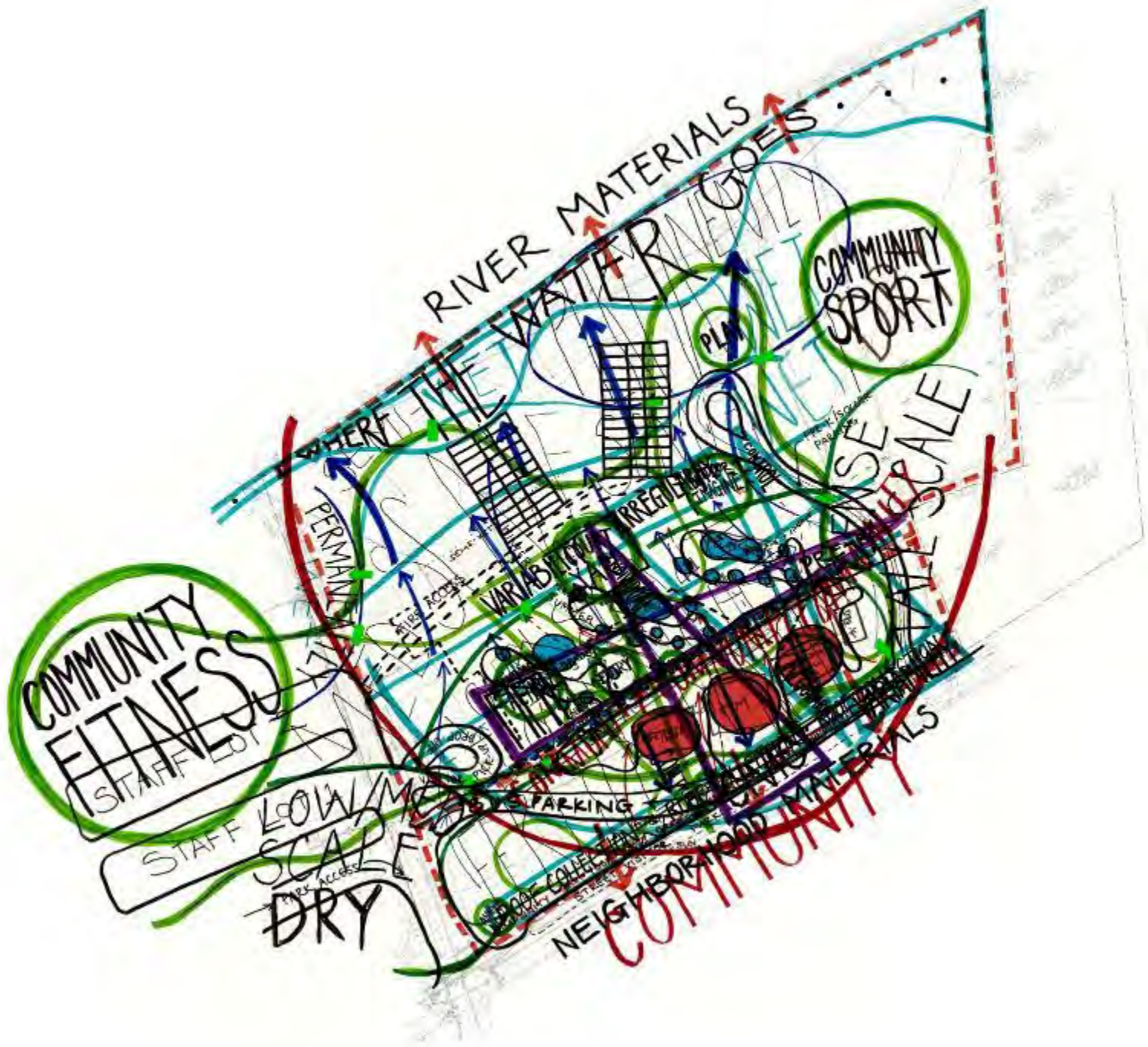




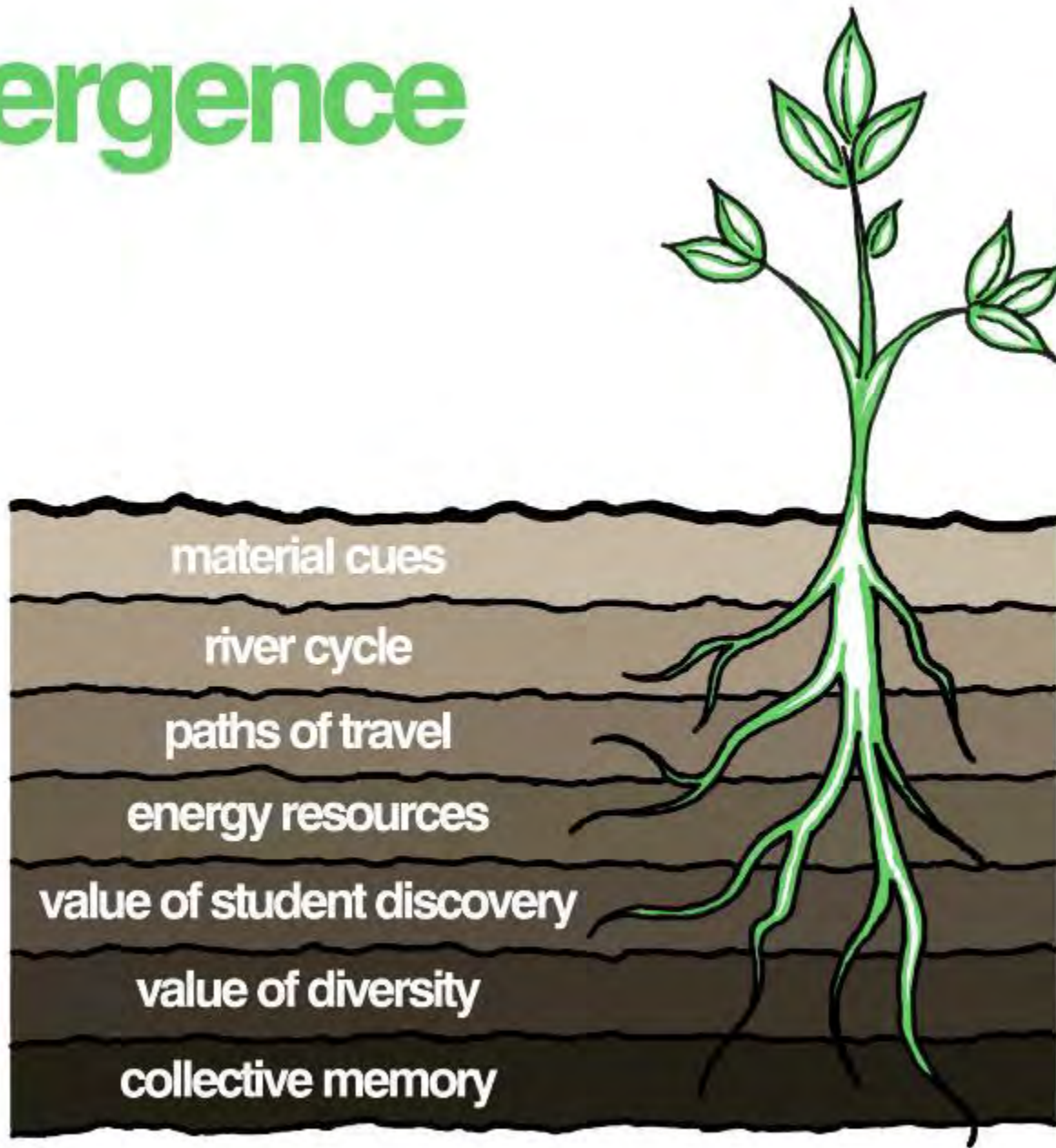


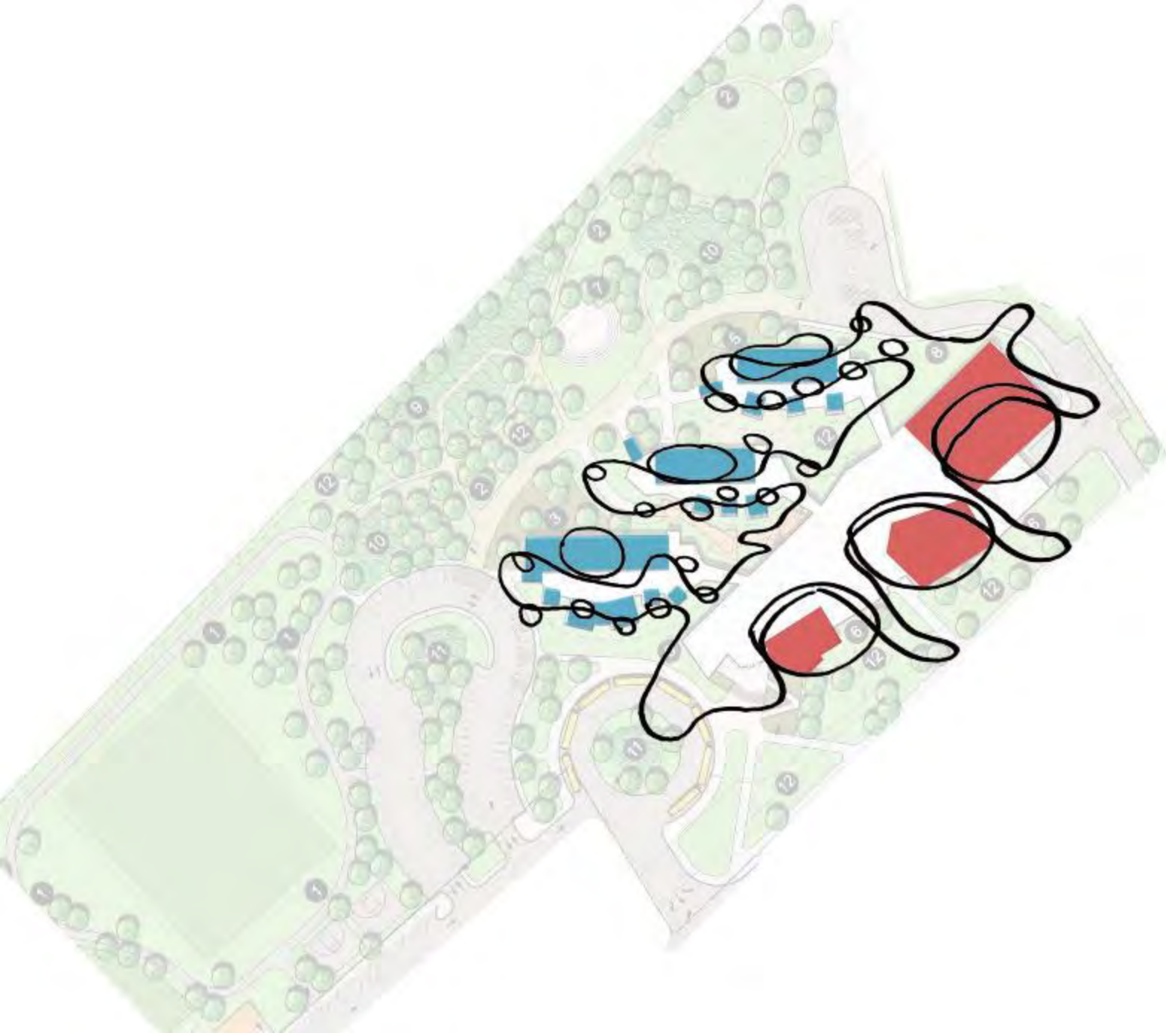
COMMUNITY FITNESS





emergence





design update

PLAN UPDATES

first floor

















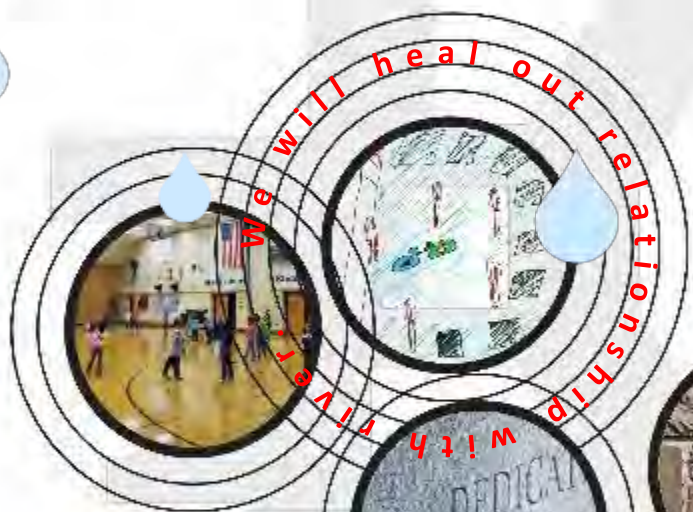
storm water design

September 07-08, 2011



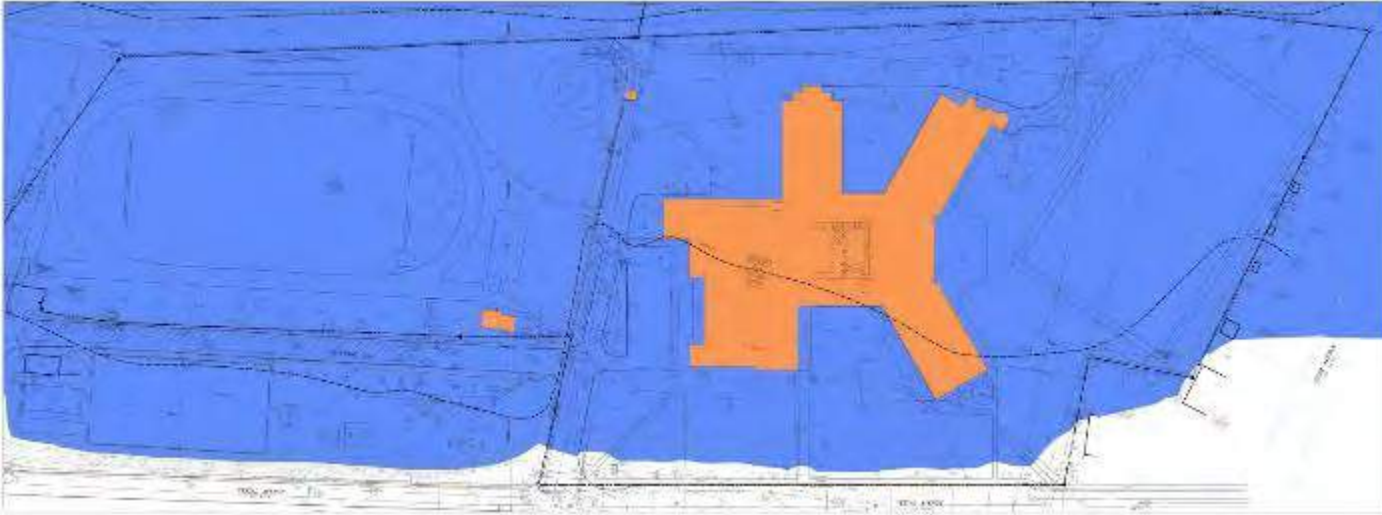
Courtesy of Bill Walsh

STORM WATER RETENTION



MacArthur Elementary Flood Displacement:

- Existing displacement - approx. 20,514 cy (approx. 4,143,828 gallons)



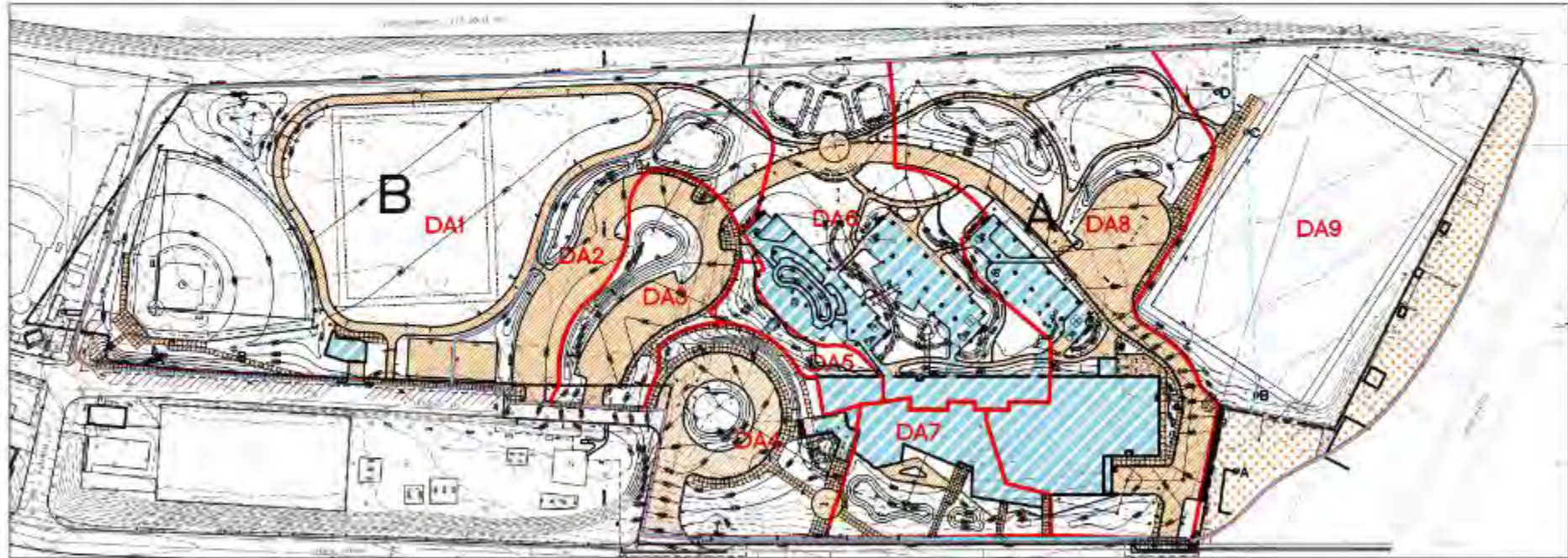
- Proposed displacement - approx. 20,485 cy (approx. 4,137,970 gallons)



MacArthur Elementary Stormwater Design Areas:



LEGEND	DESIGN AREA 1	DESIGN AREA 4	DESIGN AREA 7	PROPOSED TIME OF CONCENTRATION	STORM DATA
PAVEMENT	SURFACE = 4.99 ac ACREs CN	SURFACE = 1.31 ac ACREs CN	SURFACE = .82 ac ACREs CN	DESIGN AREA 1 TOC = .59 hours	1 YEAR 2.4
ROOF	PAVEMENT = 27,207 sf .53 98 ROOF = 1,468 sf .03 98 LAWN (D slope) = 168,705 sf 4.53 80 COMPOSITE CN: 82	PAVEMENT = 32,940 sf .75 98 ROOF = 1,700 sf .04 98 LAWN (D slope) = 22,803 sf .52 80 COMPOSITE CN: 91	PAVEMENT = 4,220 sf .10 98 ROOF = 14,730 sf .34 98 LAWN (D slope) = 16,730 sf .38 80 COMPOSITE CN: 90	POINT A TO POINT B 100 ft lean steel floor at .5% POINT B TO POINT C 433 ft lean shallow conc. floor at .25%	2 YEAR 2.8 10 YEAR 4.2 100 YEAR 6.2
RESIDENTIAL	DESIGN AREA 2	DESIGN AREA 5	DESIGN AREA 8	DESIGN AREA 2 - 8 TOC = 1 hours (MINIMUM ALLOWABLE TOC)	
LAWN	SURFACE = 104 ac ACREs CN	SURFACE = .28 ac ACREs CN	SURFACE = 3.08 ac ACREs CN	DESIGN AREA 9 TOC = .25 hours	
DESIGN AREA BOUNDARY	PAVEMENT = 22,229 sf .51 98 LAWN (D slope) = 23,598 sf .53 80 COMPOSITE CN: 89	PAVEMENT = 344 sf .01 98 ROOF = 226 sf .01 98 LAWN (D slope) = 11,437 sf .28 80 COMPOSITE CN: 81	PAVEMENT = 7,610 sf .18 98 ROOF = 36,058 sf .83 98 LAWN (D slope) = 73,694 sf 1.89 80 COMPOSITE CN: 90	POINT A TO POINT B 100 ft lean steel floor at .5% POINT B TO POINT C 332 ft lean shallow conc. floor at .1% POINT C TO POINT D 63 ft asphalt shallow conc. floor at .2%	
TIME OF CONCENTRATION	DESIGN AREA 3	DESIGN AREA 6	DESIGN AREA 9		
	SURFACE = .93 ac ACREs CN	SURFACE = 2.32 ac ACREs CN	SURFACE = 4.41 ac ACREs CN		
	PAVEMENT = 23,503 sf .54 98 LAWN (D slope) = 17,217 sf .39 80 COMPOSITE CN: 90	PAVEMENT = 11,043 sf .25 98 ROOF = 37,106 sf .85 98 LAWN (D slope) = 52,829 sf 1.21 80 COMPOSITE CN: 89	PAVEMENT = 3,189 sf .07 98 RESIDENTIAL = 41,480 sf .95 87 LAWN (D slope) = 147,543 sf 3.39 80 COMPOSITE CN: 82		



Stormwater Design - Quantity Control

- less run off post design

- one year, 24hr design storm 27.24cfs->26.49cfs = 83,787cf/storm->80,975cf/storm
- two year, 24hr design storm 34.81cfs->34.03 = 107,183cf/storm->104,035cf/storm

WATERSHED LAND USE SQUARE FOOTAGE

MacArthur Property:	18.89+/- acres
Disturbed Area within Project Area:	15.38 +/- acres
Existing Impervious Area within Disturbed:	6.40 +/- acres
Proposed Impervious Area within Disturbed:	6.09 +/- acres
Proposed Porous Pavement:	.60 +/- acres

