

Washington University in St. Louis

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Fall 2019 Confluence: St. Louis and Hinterlands

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5-2020

### The Meeting of Water, Trash, & Us

Xue Ying

*Washington University in St. Louis*

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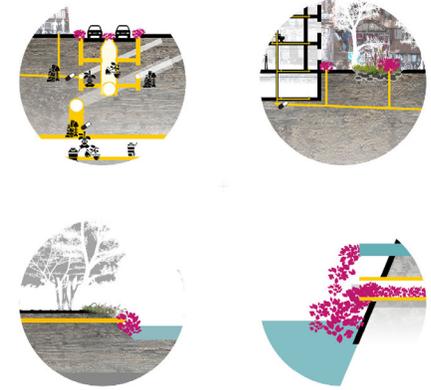
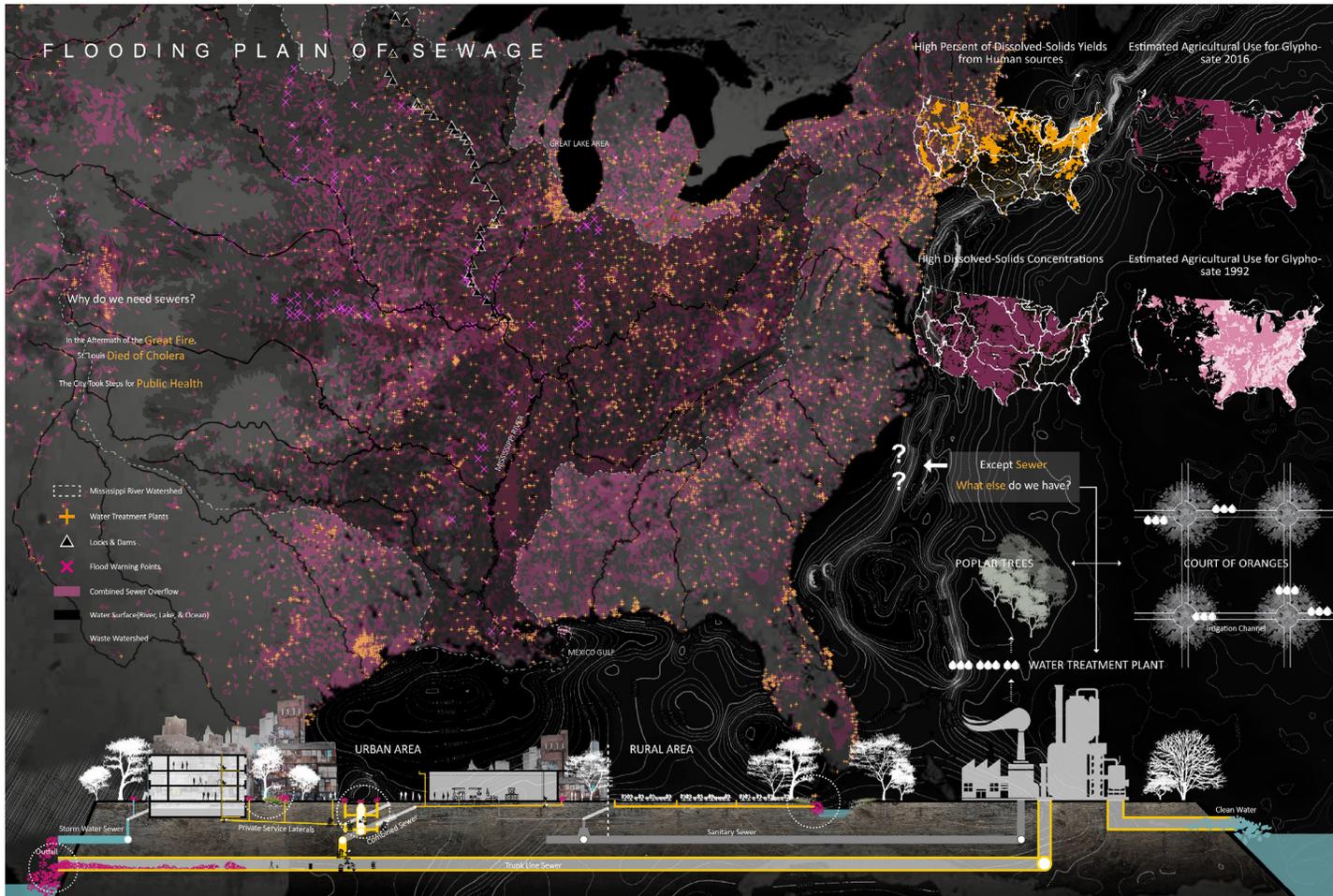
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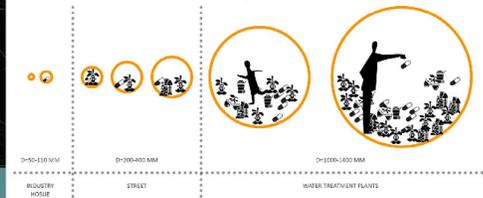
### Missouri Facts - Did you know?

53% of publicly owned treatment works (POTWs) in Missouri have a design flow of 100,000 gallons per day or less and serve a population equivalent of 1,000 or less.

Missouri has 861 discharging lagoon wastewater treatment facilities.  
 Missouri has 147 no-discharge facilities.

25% of the construction permit applications received by the department from 2013 to 2016 were for the construction of no-discharge facilities.

\* This data was collected from the department's Missouri Clean Water Information System on June 23, 2016.   
 \*\* Missouri Department of Natural Resources, Missouri No-Discharge Program



"POPLAR BARK MATERIAL" ?

ec.com/category/for-water/  
emher-usa-bark-wood-products/



"PHARMACEUTICAL FLUSHING" ↲

LEFT FIG: <http://www.water.gov.au/2013/04/04/flushing-pharmaceuticals/>

↲ "ALGAL BLOOM"

PHOTO: <http://www.water.gov.au/2013/04/04/flushing-pharmaceuticals/>

"FATBERG" ↲ "SOAP" ?

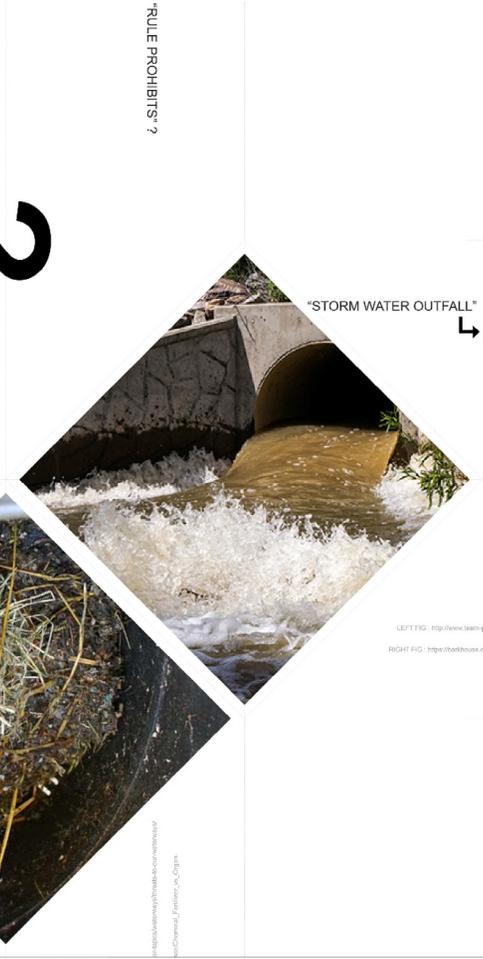
LEFT FIG: <http://watermanagementreview.com.au/jira-valley-fatberg-incident/>  
RIGHT FIG: <http://www.business.com/2013/03/11/benefits-of-using-handmade-soap/>



PHOTO: <http://www.water.gov.au/2013/04/04/flushing-pharmaceuticals/>

"GREEN FERTILIZER" ?

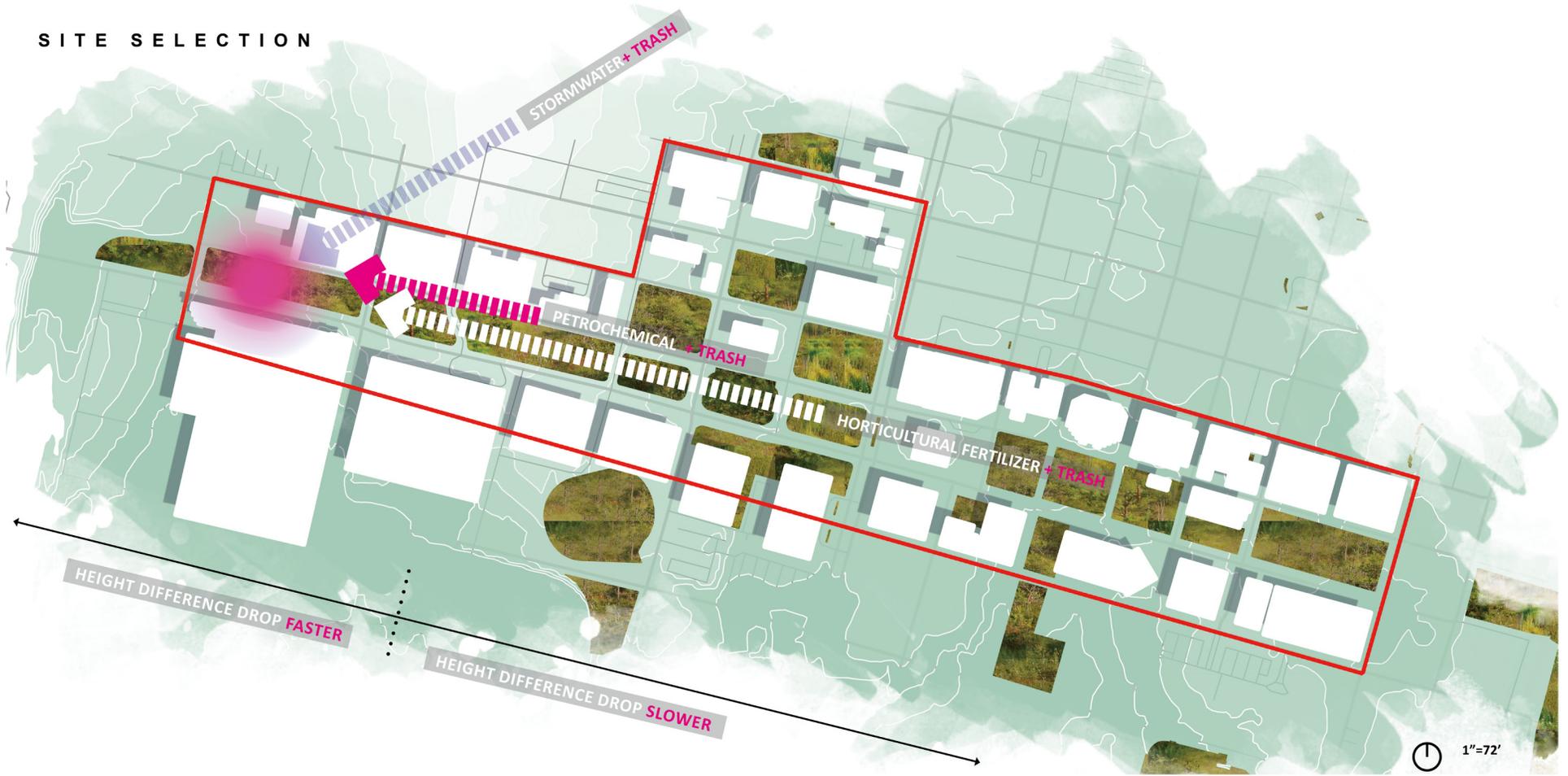
"RULE PROHIBITS" ?



"STORM WATER OUTFALL" ↲

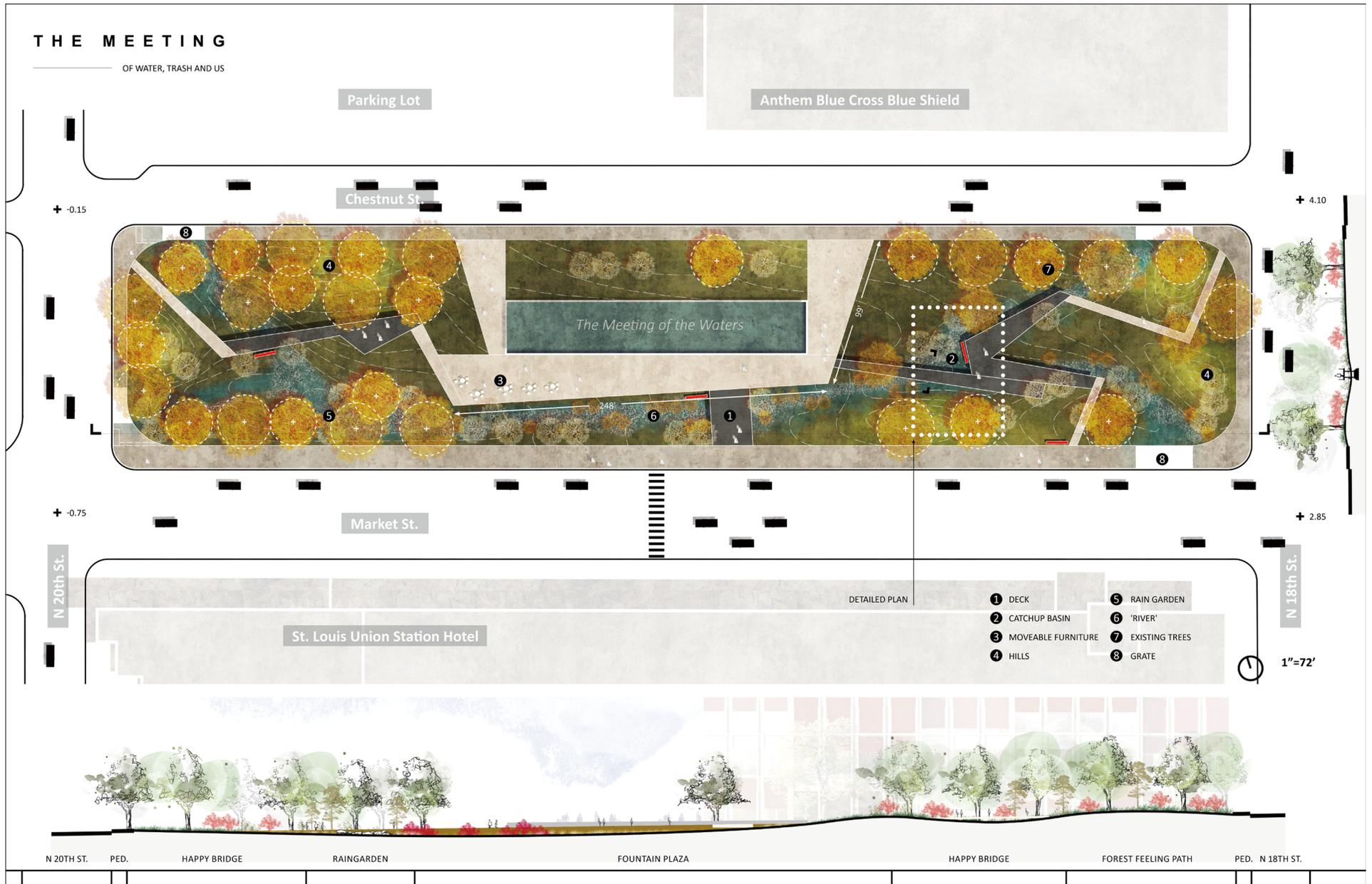
LEFT FIG: <http://www.bim.org>  
RIGHT FIG: <https://airthous.c>

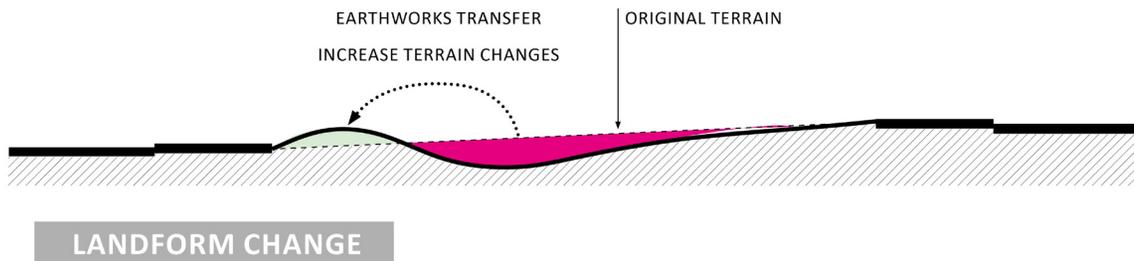
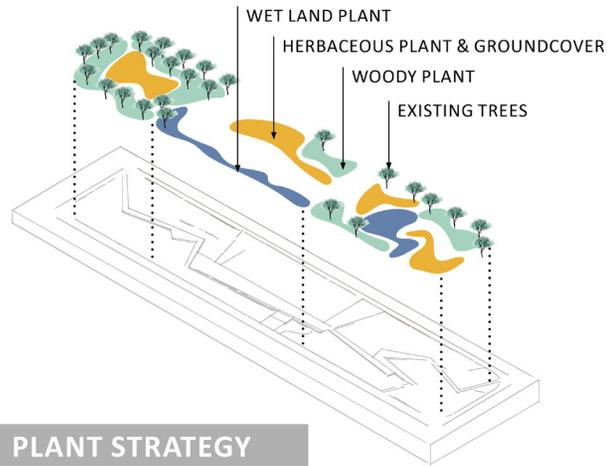
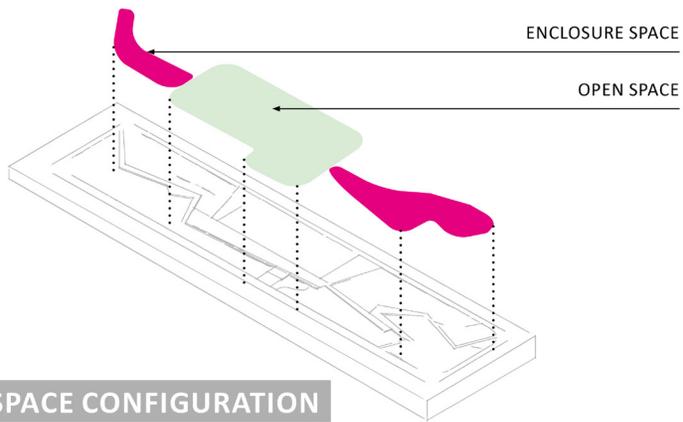
SITE SELECTION



# THE MEETING

OF WATER, TRASH AND US





*Amelanchier arborea*



*Nyssa aquatica*

ARBORS



*Persicaria virginiana*



*Ageratina altissima*

HERBAL PLANTS



*Onoclea sensibilis*



*Carex crus-corvi*

GROUNDCOVER







**D E T A I L E D   S E C T I O N**

**3/4"=1'-0"**