

RESHAPE OF VACANT LAND

Floating Streets Pilot - Harvey
Parklands Pilot - Westwego

BALANCING WATER

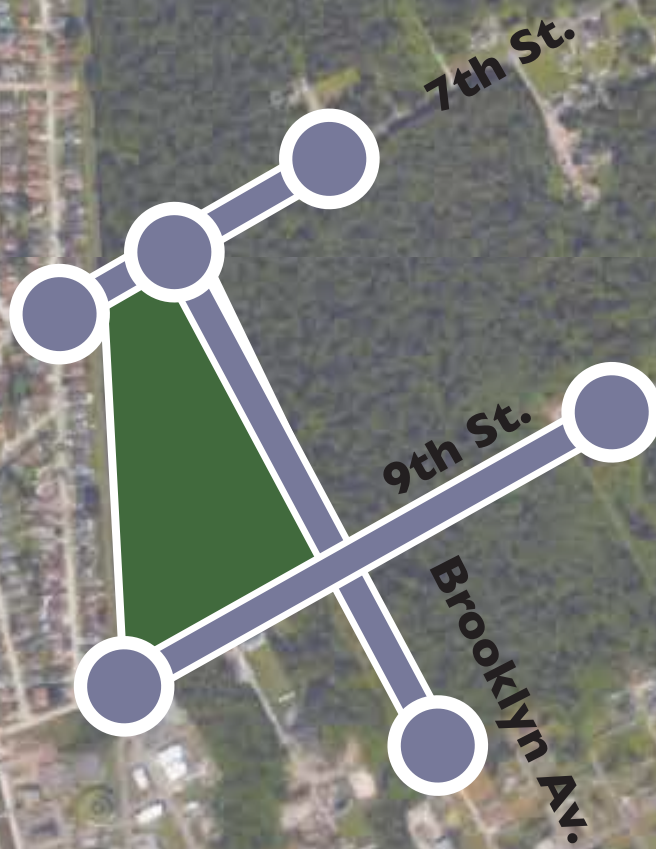
Reshaping of South New Orleans Subdivision - Harvey



FLOATING STREETS & TRANSFORMED UTILITIES



Waggoner & Ball



PARKLANDS



Retention Park

SOUTH NEW ORLEANS AREA - HARVEY



Balancing Water: Reshape of Vacant Lands, Harvey



Potential Site of Parkland



Potential Location of Floating Streets

Floating Streets Sample

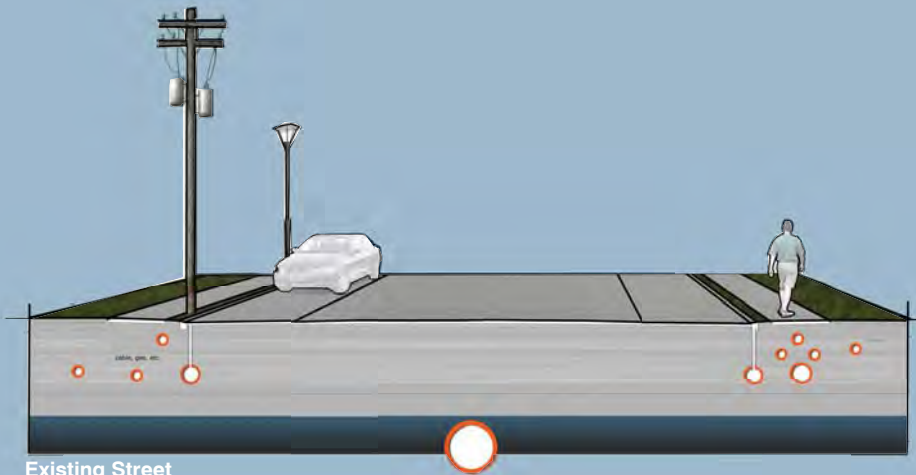


Floating Street

A floating street allows water to infiltrate into soils beneath its surface, allowing for a more stable and sustainable street.

Floating Streets

Typically streets sections are crowned, with a peak in the center and low points at the curbs. This means that street flooding typically occurs in parking lanes and on sidewalks. The floating streets proposal slopes the surface of the road in one direction, and down into a bioswale. During wet weather, the roadside bioswales collect and infiltrate stormwater, and they connect to surface and subsurface drainage infrastructure that directs excess stormwater into vacant lots.



Existing Street

The impervious surfaces of existing streets allow little infiltration. This results in a low groundwater table, which contributes to local subsidence.

Floating Streets Toolbox



From crowned to single-sloped profile



Subsurface storage combined with pervious pavement



Water storage in bioswales



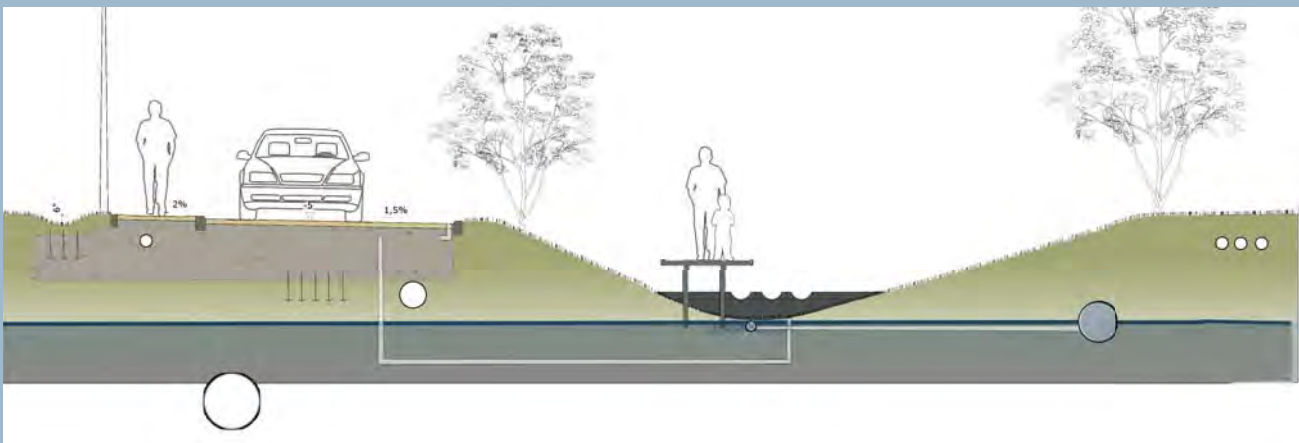
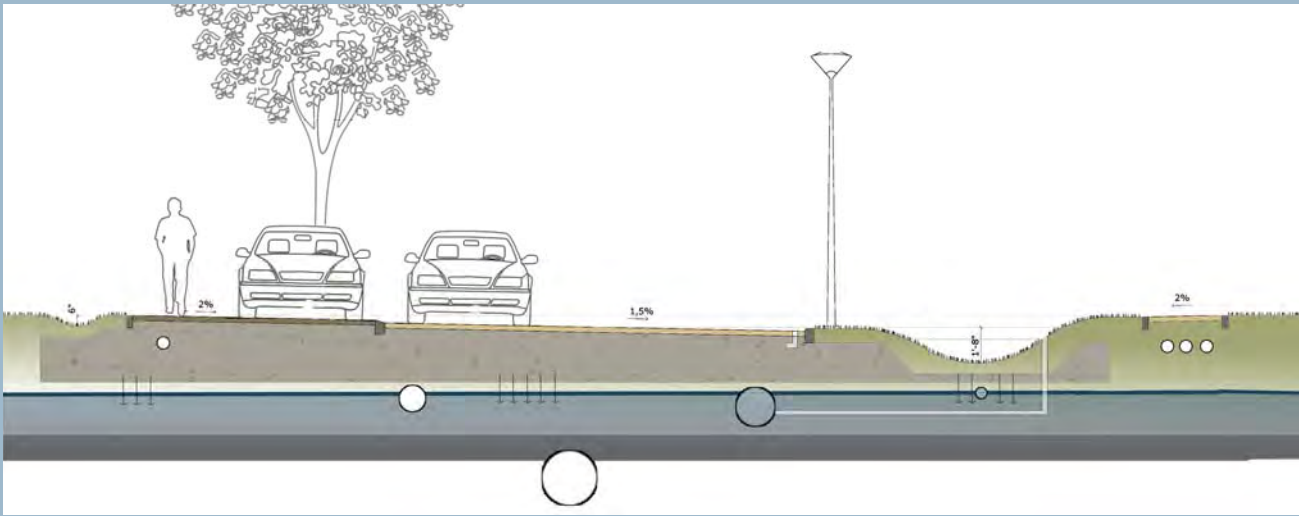
Subsurface utility system



Design for all modes of transport



Tree plantings



Street Sections

Sections show two scenarios



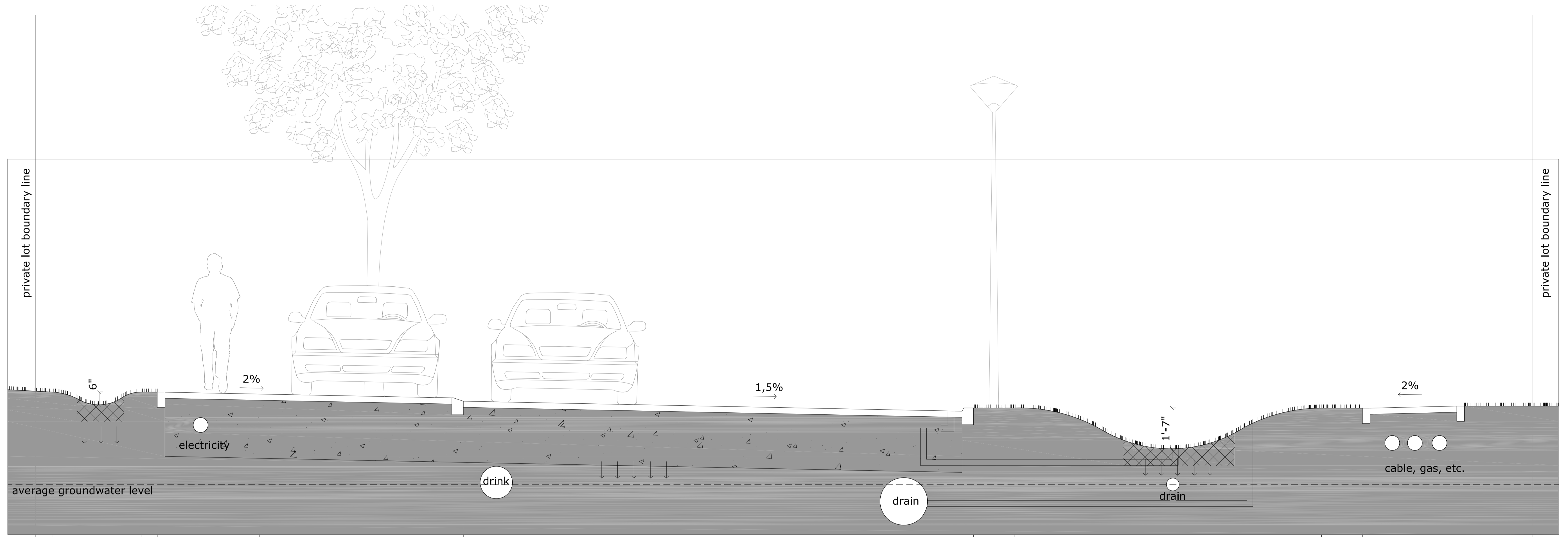
The plan at left shows the location of four different street types adjacent to vacant lands



Dry Condition



Wet Condition



8" 3'-6" 8" 4' 8' 20' 1'-7" 12'-1" 1'-7" 4'

infiltration zone

curbside porous pavers with open voids with foundation construction of Aquaflo

parking and entrances to private plot, pavers with foundation construction of Aquaflo trees in grass

mount curb

sewer

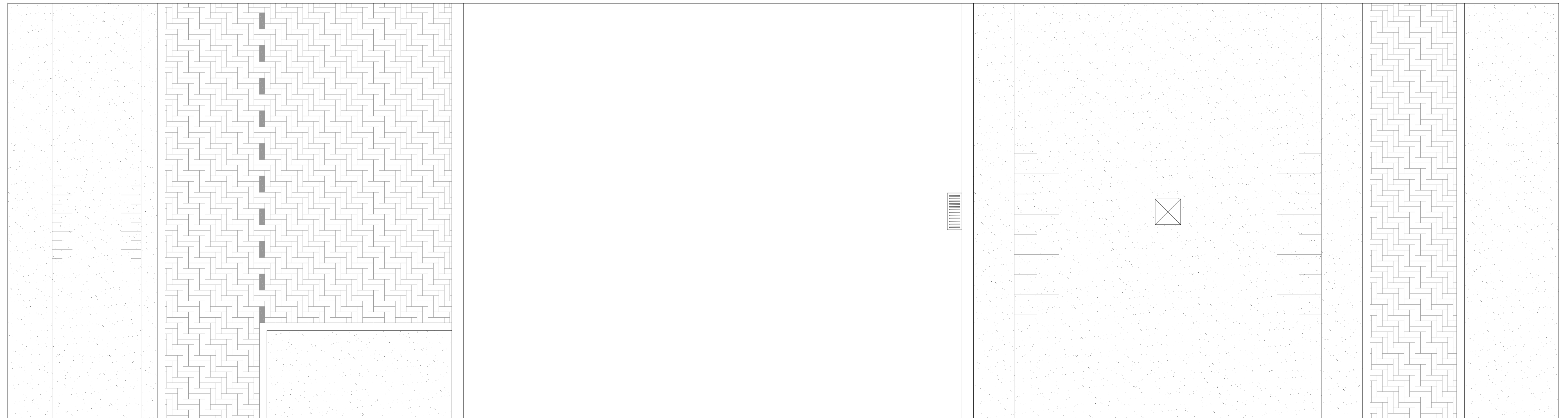
pervious concrete with foundation construction of Aquaflo

overflow to bioswale storm water drain to Aquaflo system barrier curb, top 2" above road level dark sky compliant street light

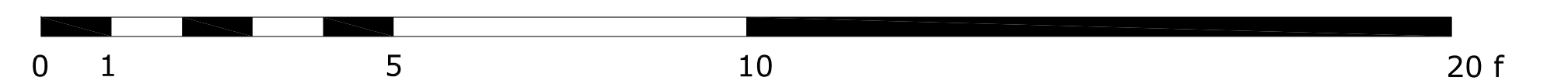
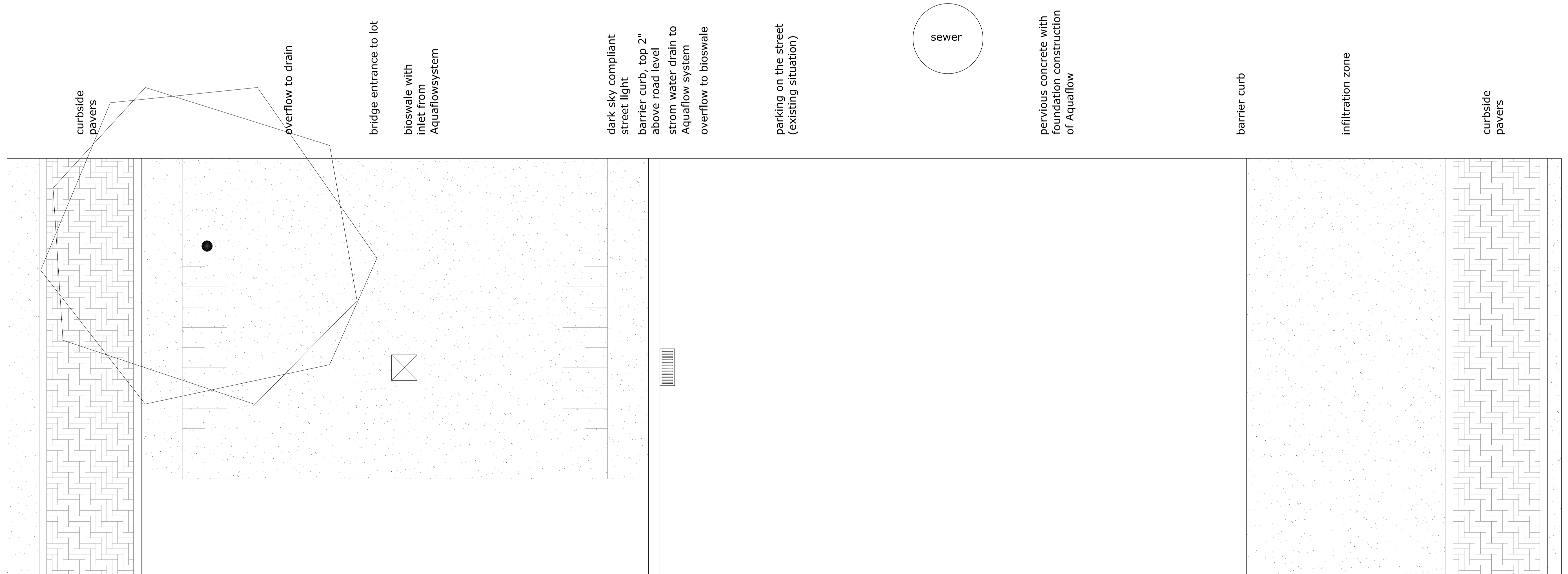
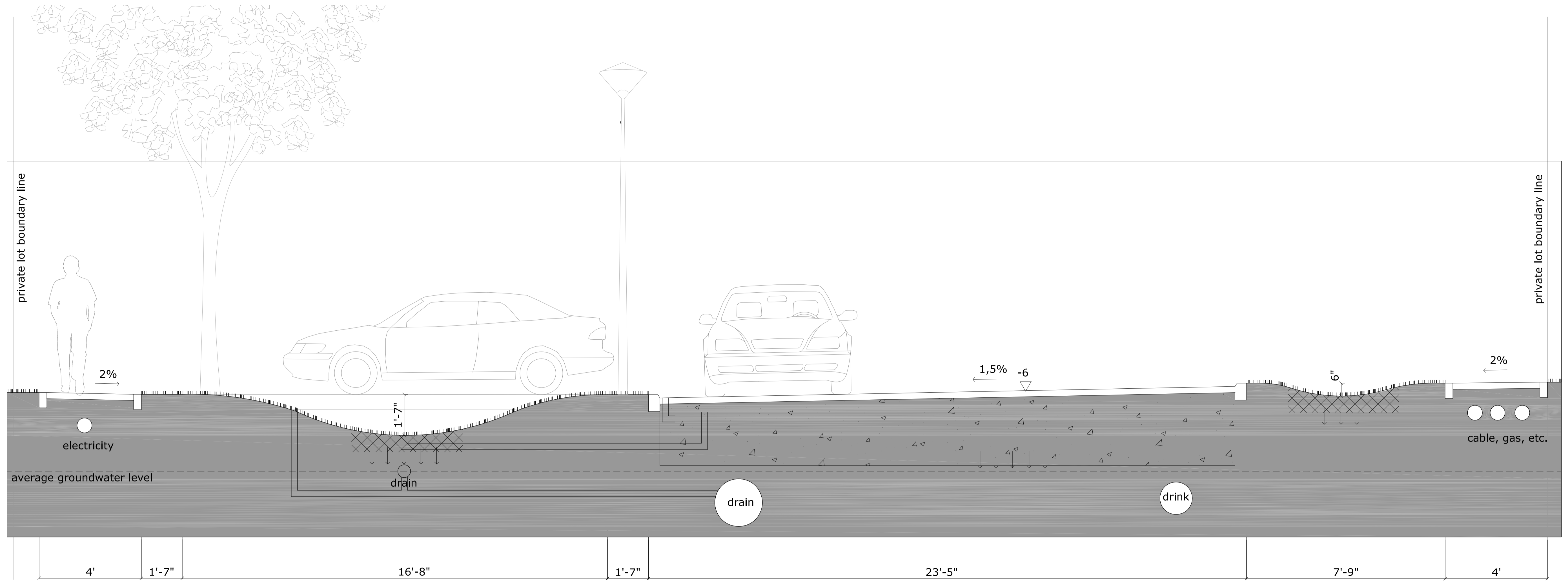
bioswale with inlet from Aquaflo system

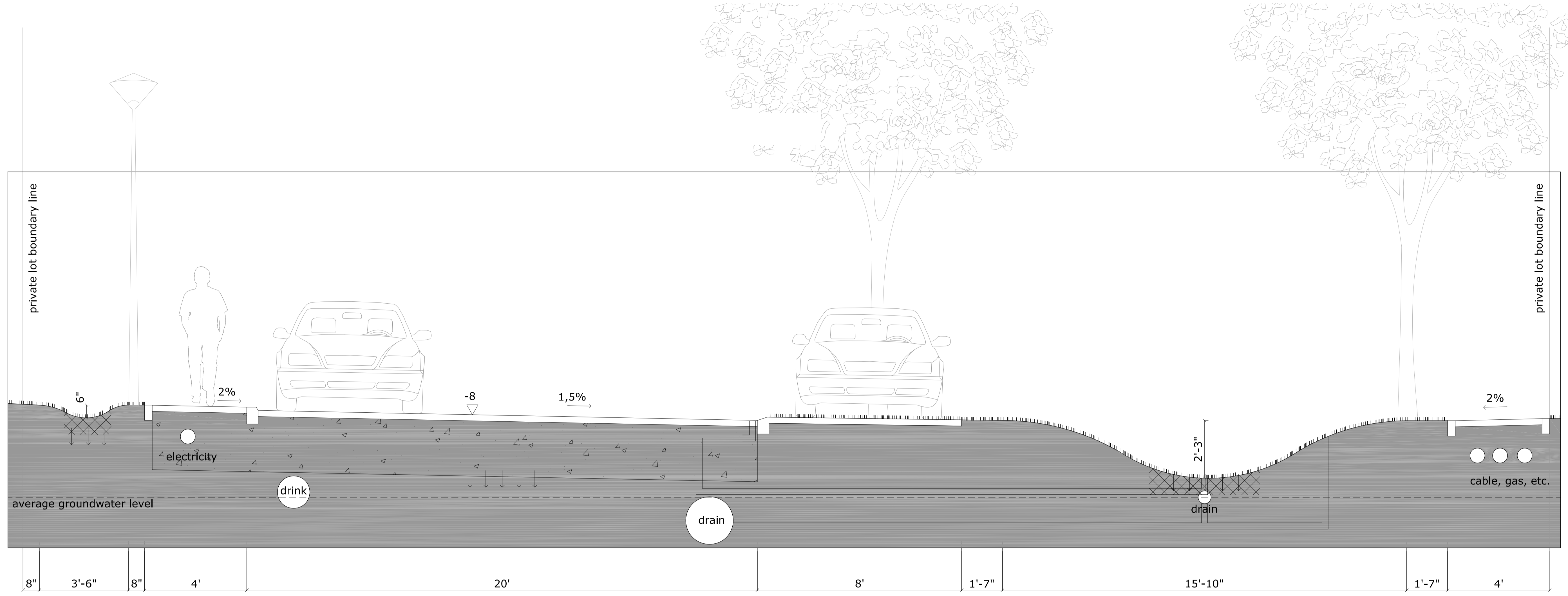
overflow to drain

curbside pavers



0 1 5 10 20 f





infiltration zone

dark sky compliant street light

curbside porous pavers with open voids with foundation construction of Aquaflo barrier curb

sewer

pervious concrete with foundation construction of Aquaflo

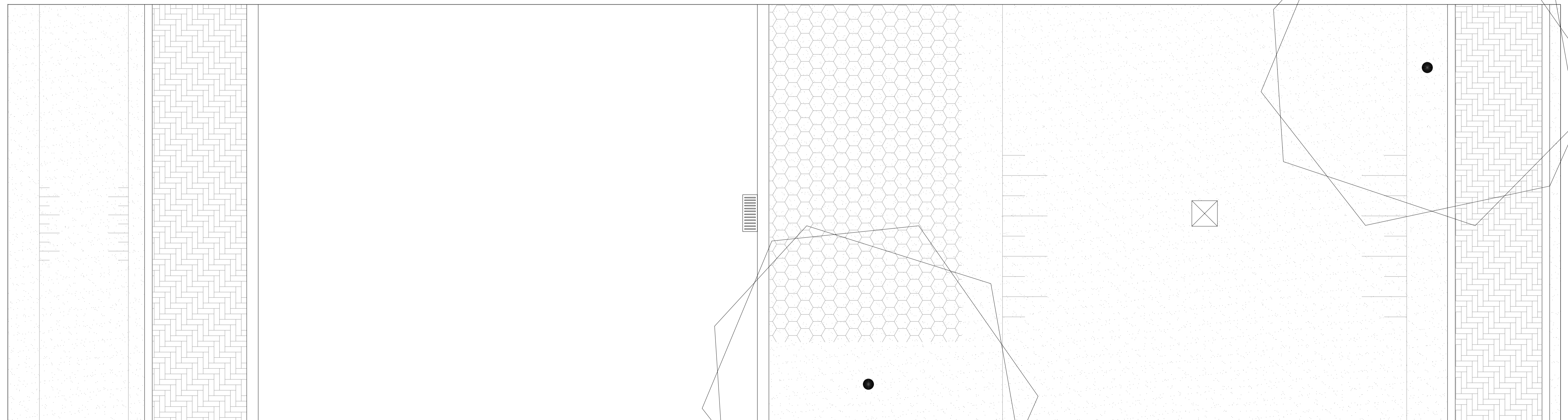
overflow to bioswale storm water drain to Aquaflo system mount curb

parking on grass pavers in between trees

bioswale with inlet from Aquaflo system

overflow to drain

curbside pavers



BALANCING WATER

Westwego: Reshaping Vacant Lands



PARKLANDS



Retention Park



PARKING FIELDS



Waggoner & Ball

Balancing Water: Reshape of Vacant Lands, Westwego



Parklands Sample

Parklands

Parklands forms the backbone of the connecting between neighborhoods and serving as a transitional zone between urban/suburban areas.





WESTWEGO CURRENT CONDITION



WESTWEGO PROPOSED - PARKLANDS



