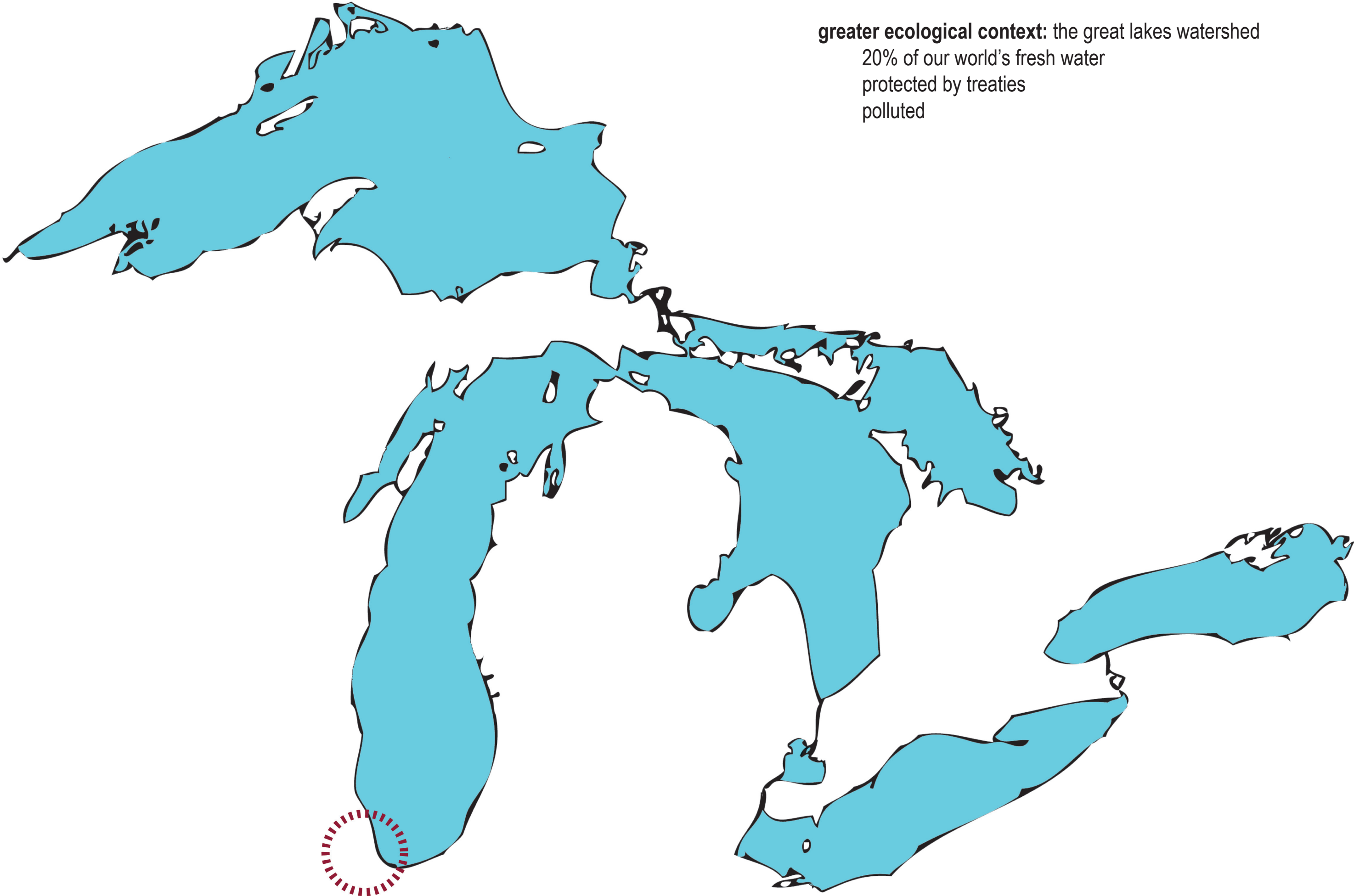




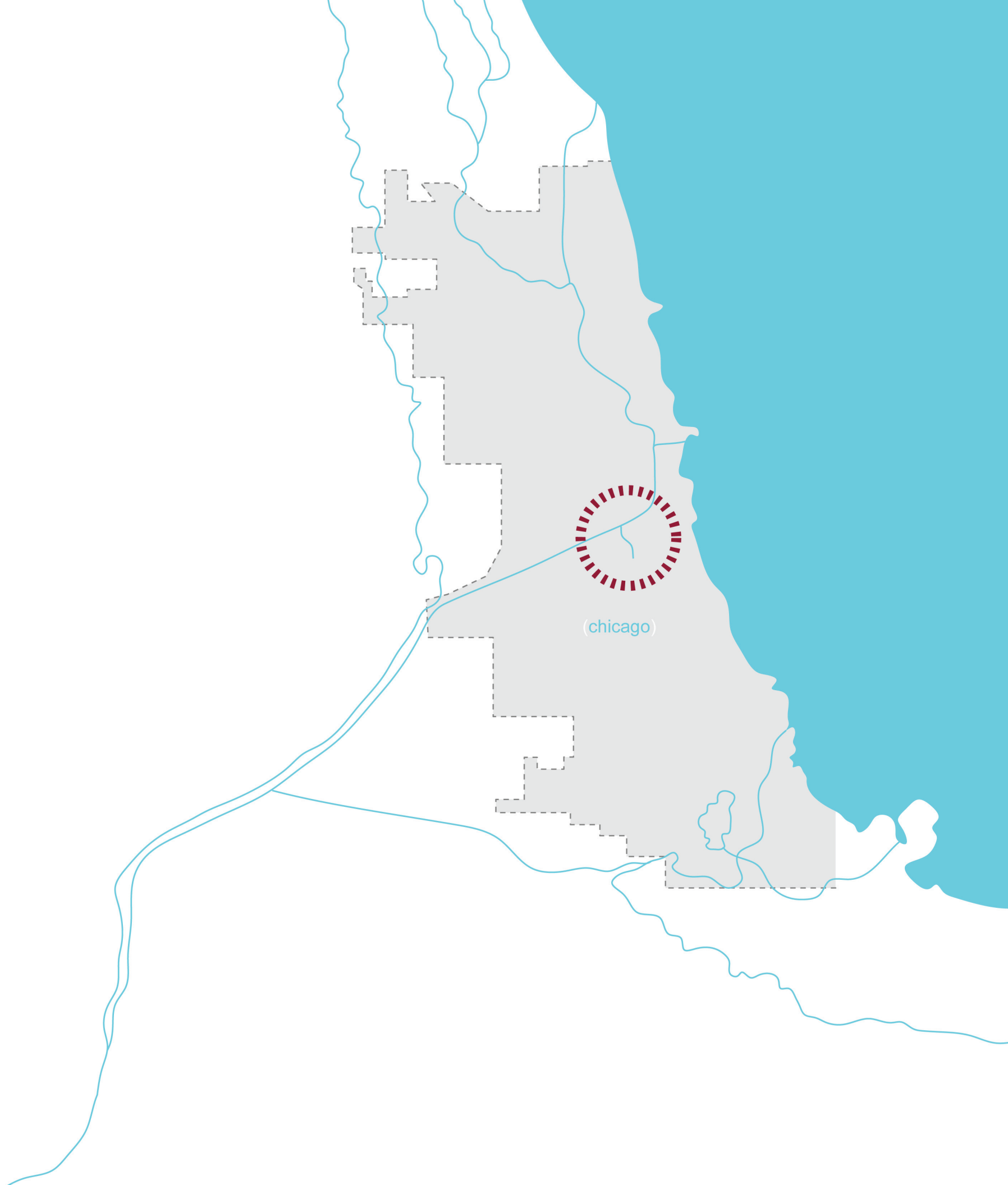
the evolution of the south fork turning basin



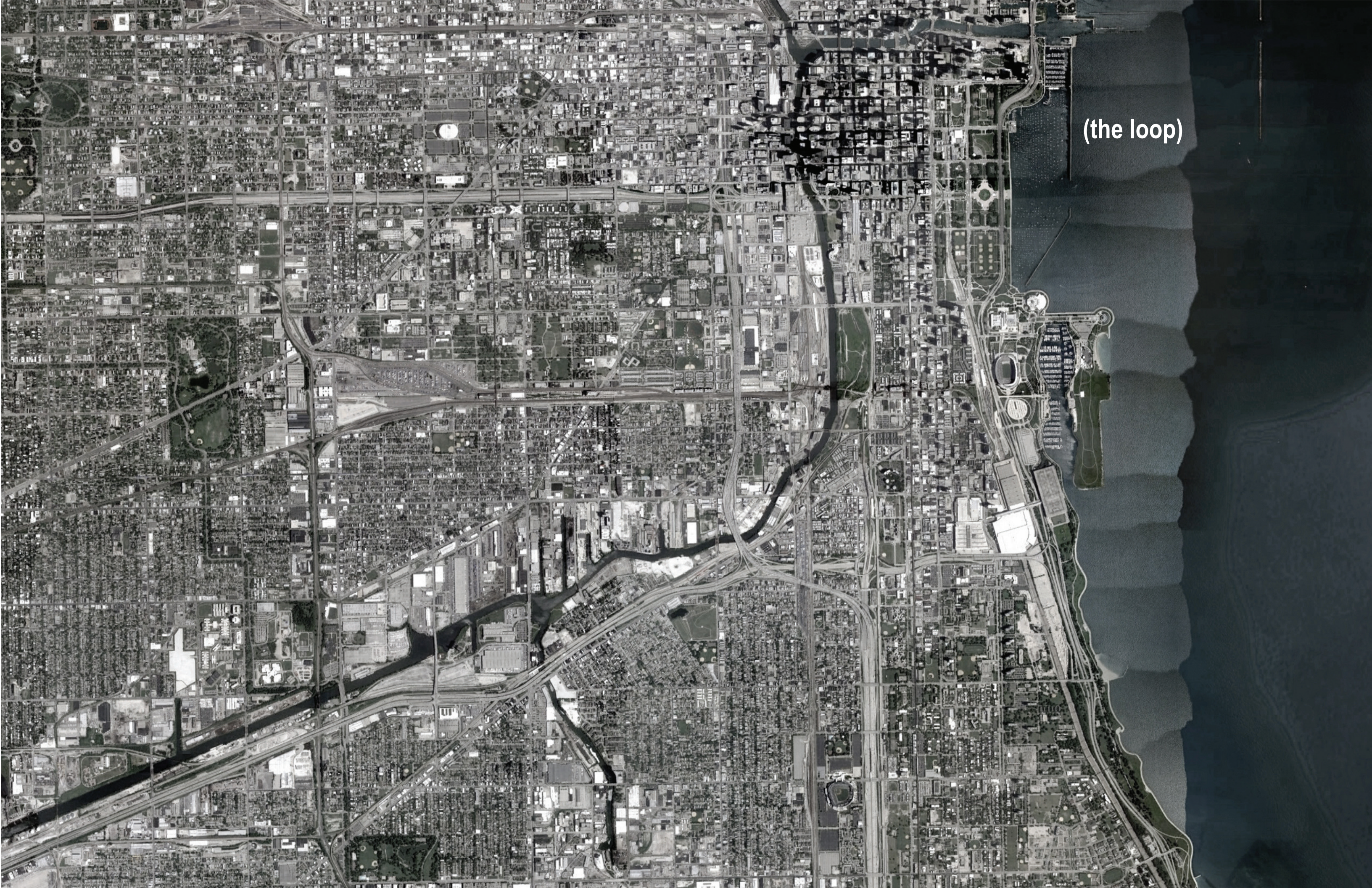
**greater ecological context: the great lakes watershed**  
20% of our world's fresh water  
protected by treaties  
polluted



**local ecological context:** chicago river and canal  
canal connects chicago river to mississippi river  
river moves against natural current  
all water flows to gulf of mexico







(the loop)

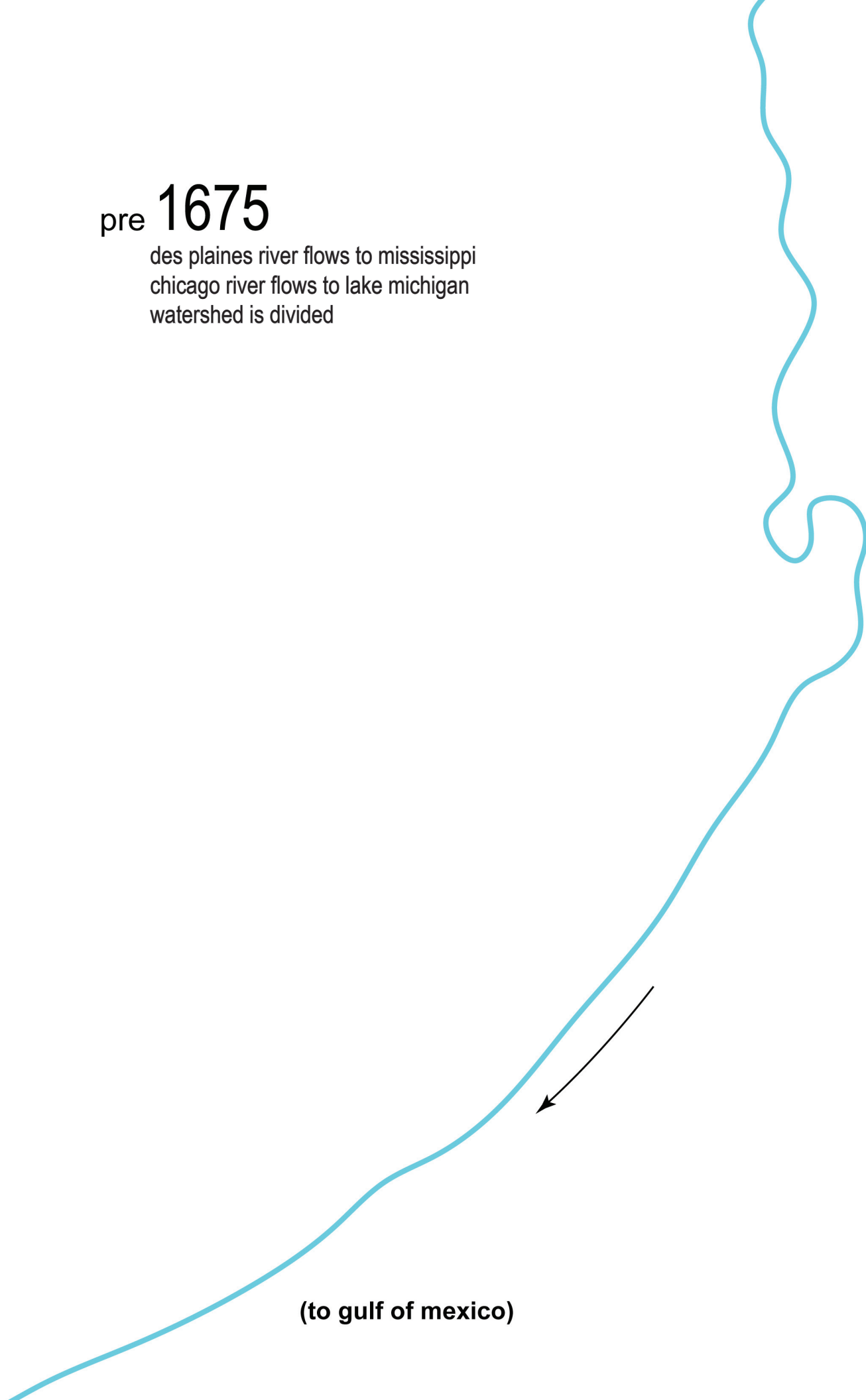






pre **1675**

des plaines river flows to mississippi  
chicago river flows to lake michigan  
watershed is divided



**(to gulf of mexico)**



**(lake michigan)**

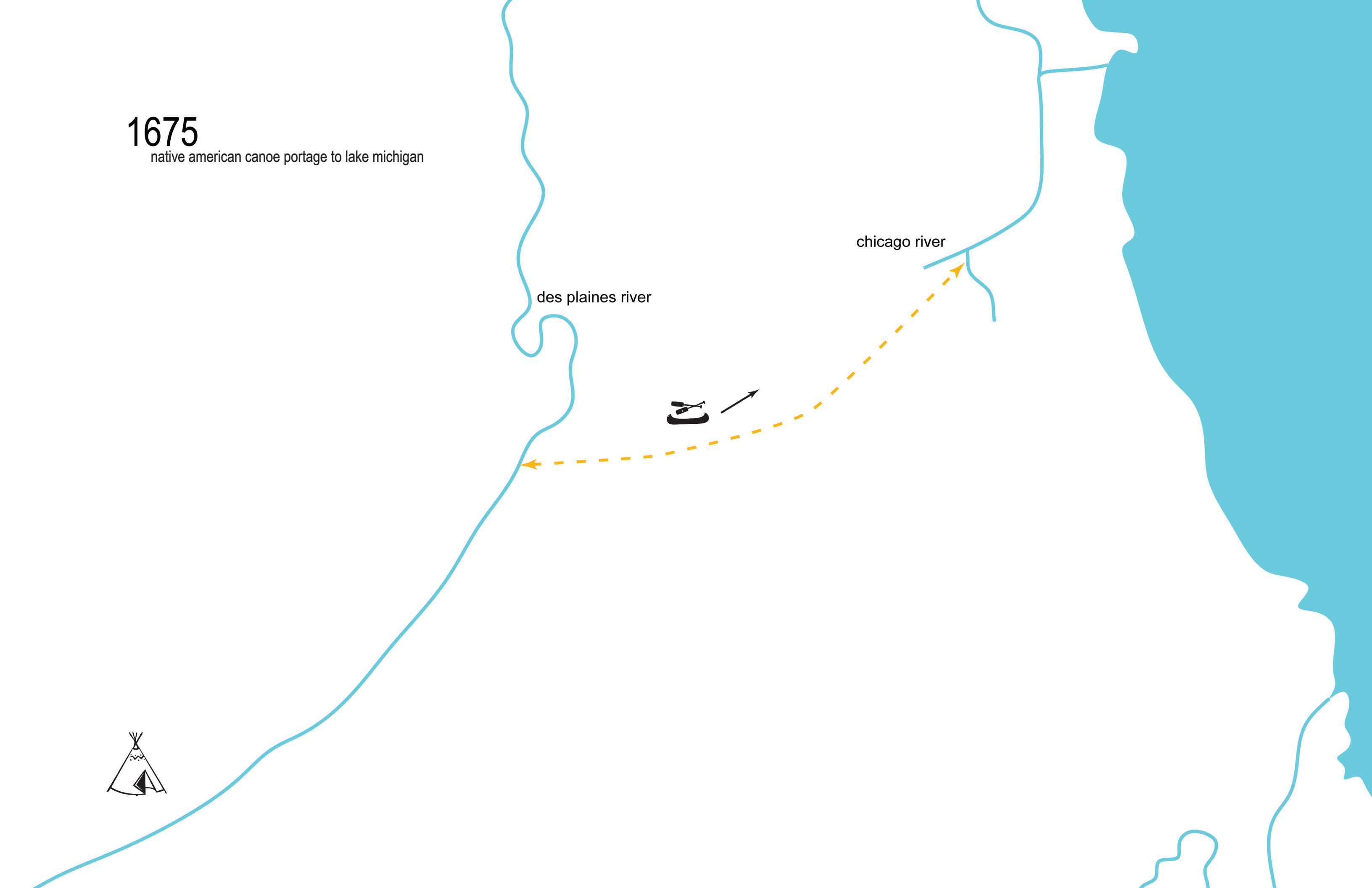
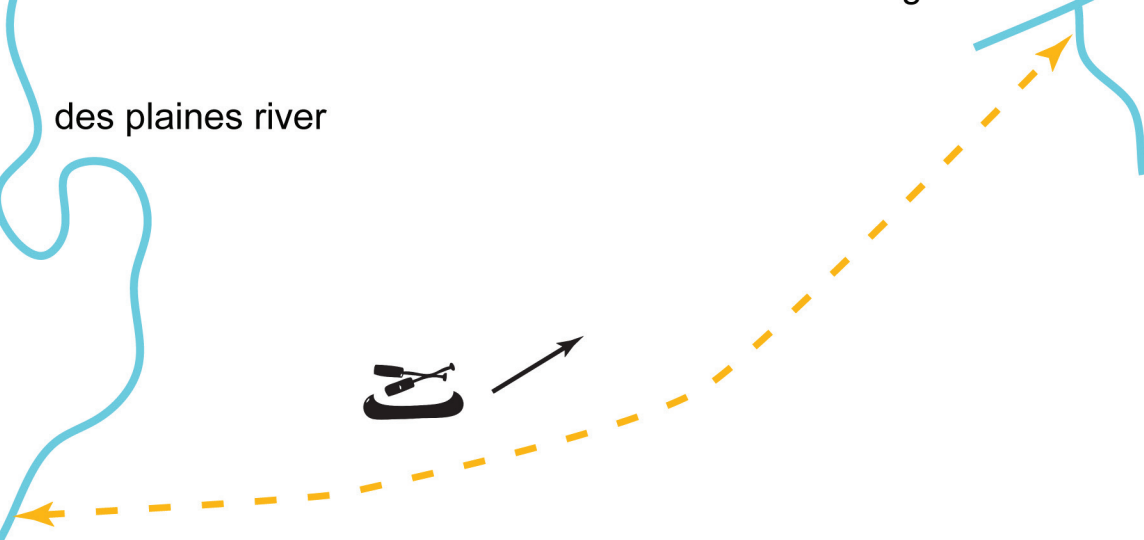
1675

native american canoe portage to lake michigan



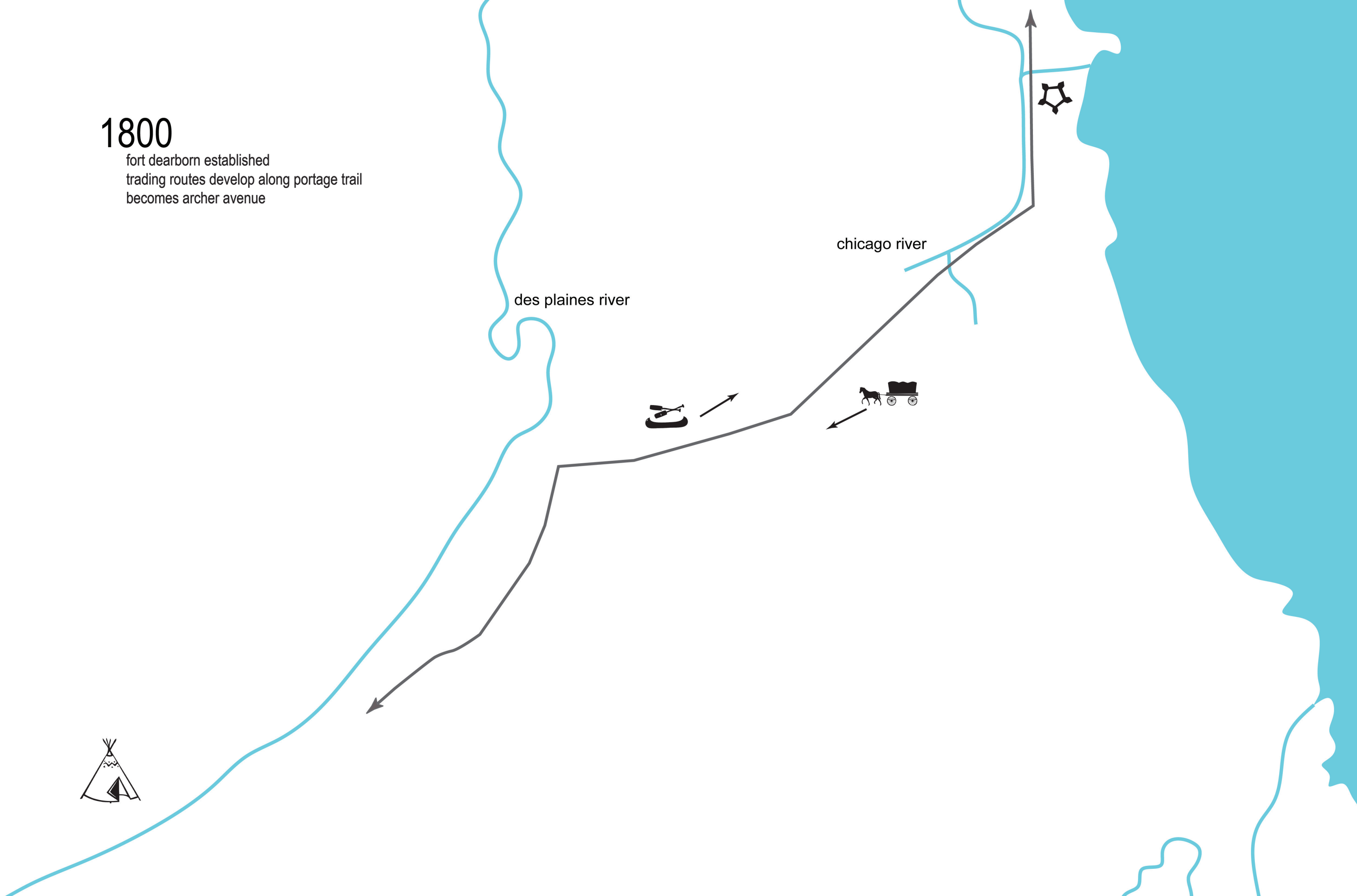
des plaines river

chicago river



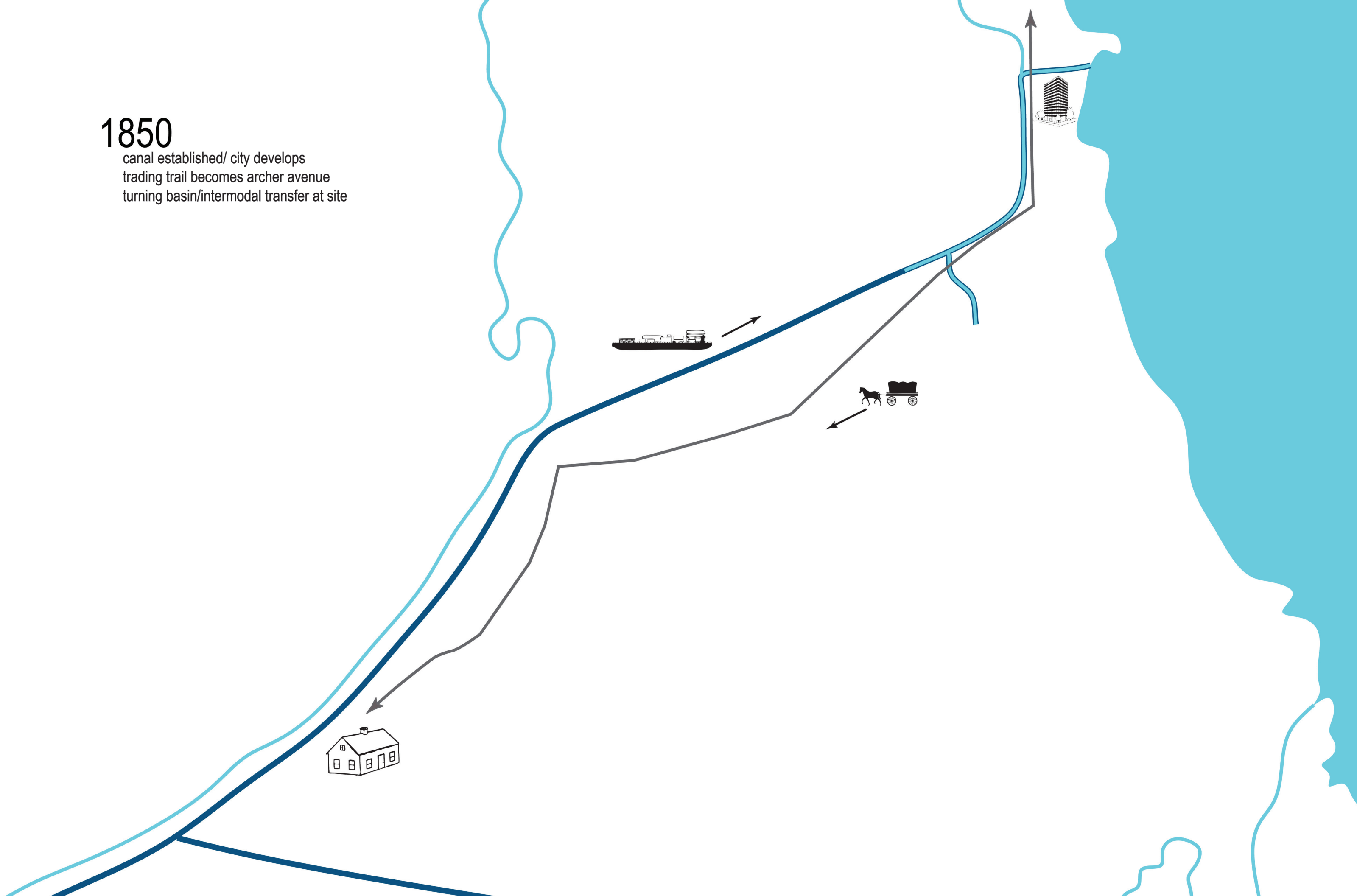
1800

fort dearborn established  
trading routes develop along portage trail  
becomes archer avenue



# 1850

canal established/ city develops  
trading trail becomes archer avenue  
turning basin/intermodal transfer at site



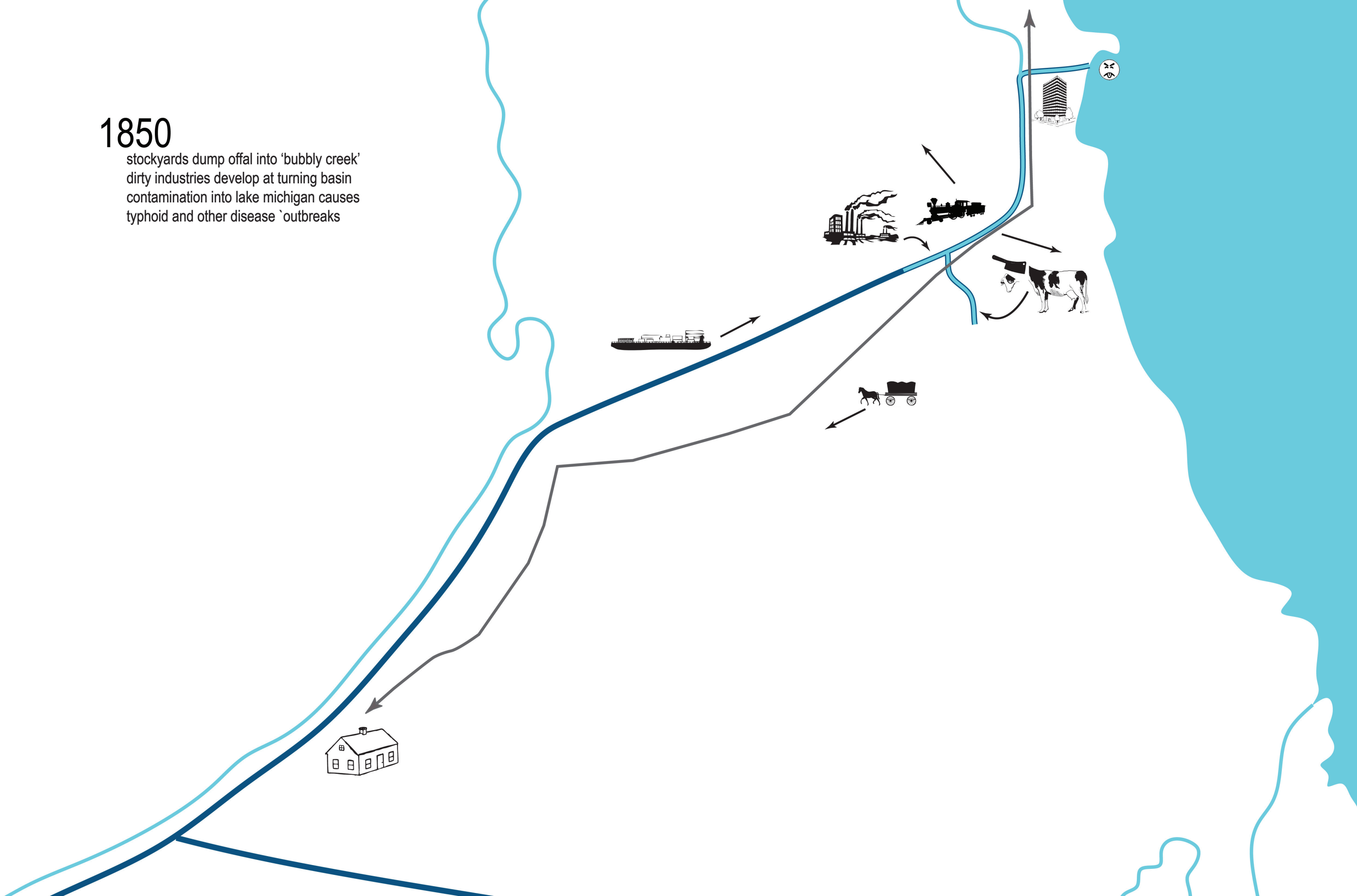




265 Splitting backbones and final inspection — hogs ready for cooler, Swift & Co., Chicago, U.S.A. Copyright 1908 by H. O. Walter Co.

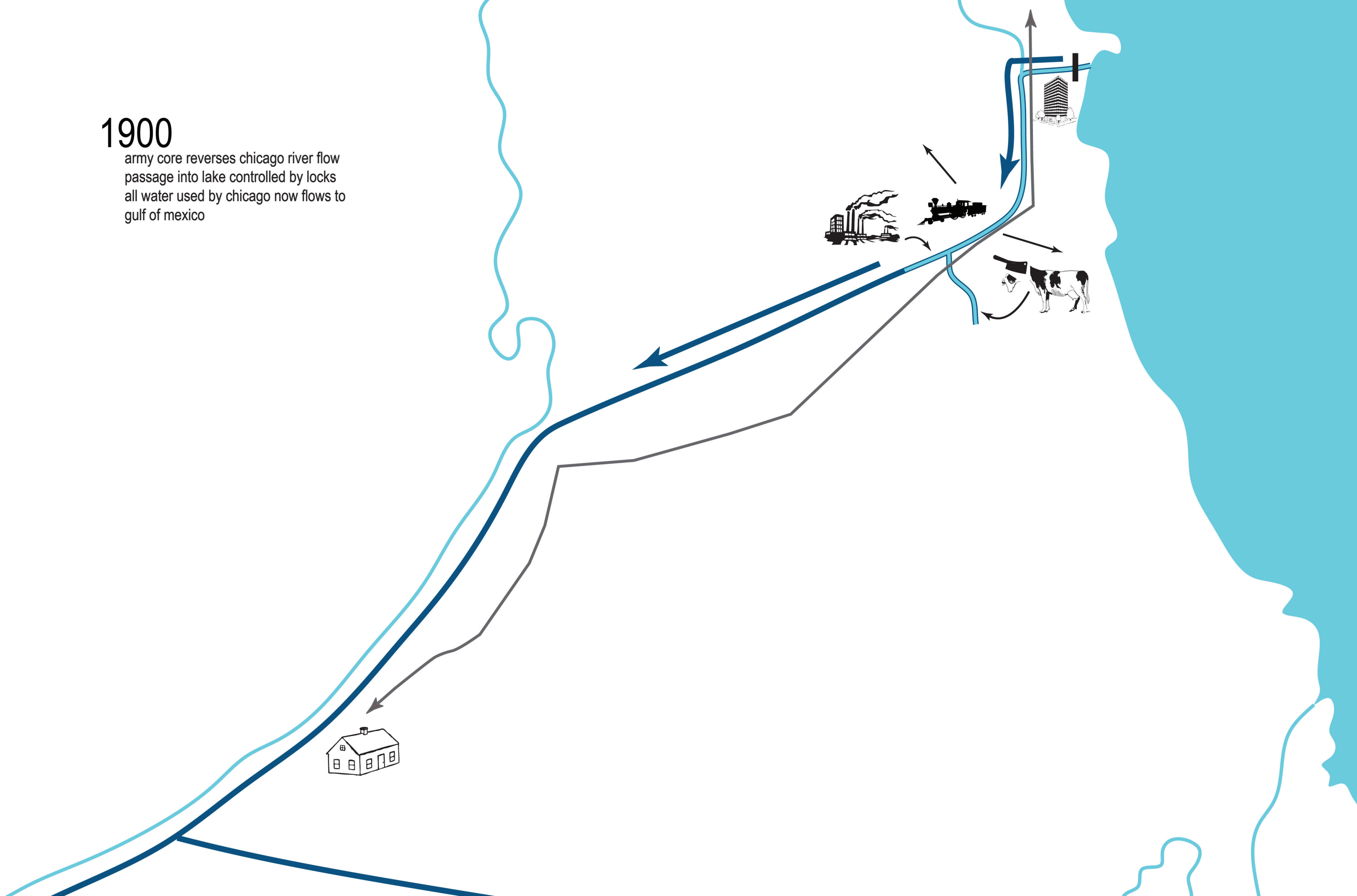
# 1850

stockyards dump offal into 'bubbly creek'  
dirty industries develop at turning basin  
contamination into lake michigan causes  
typhoid and other disease outbreaks



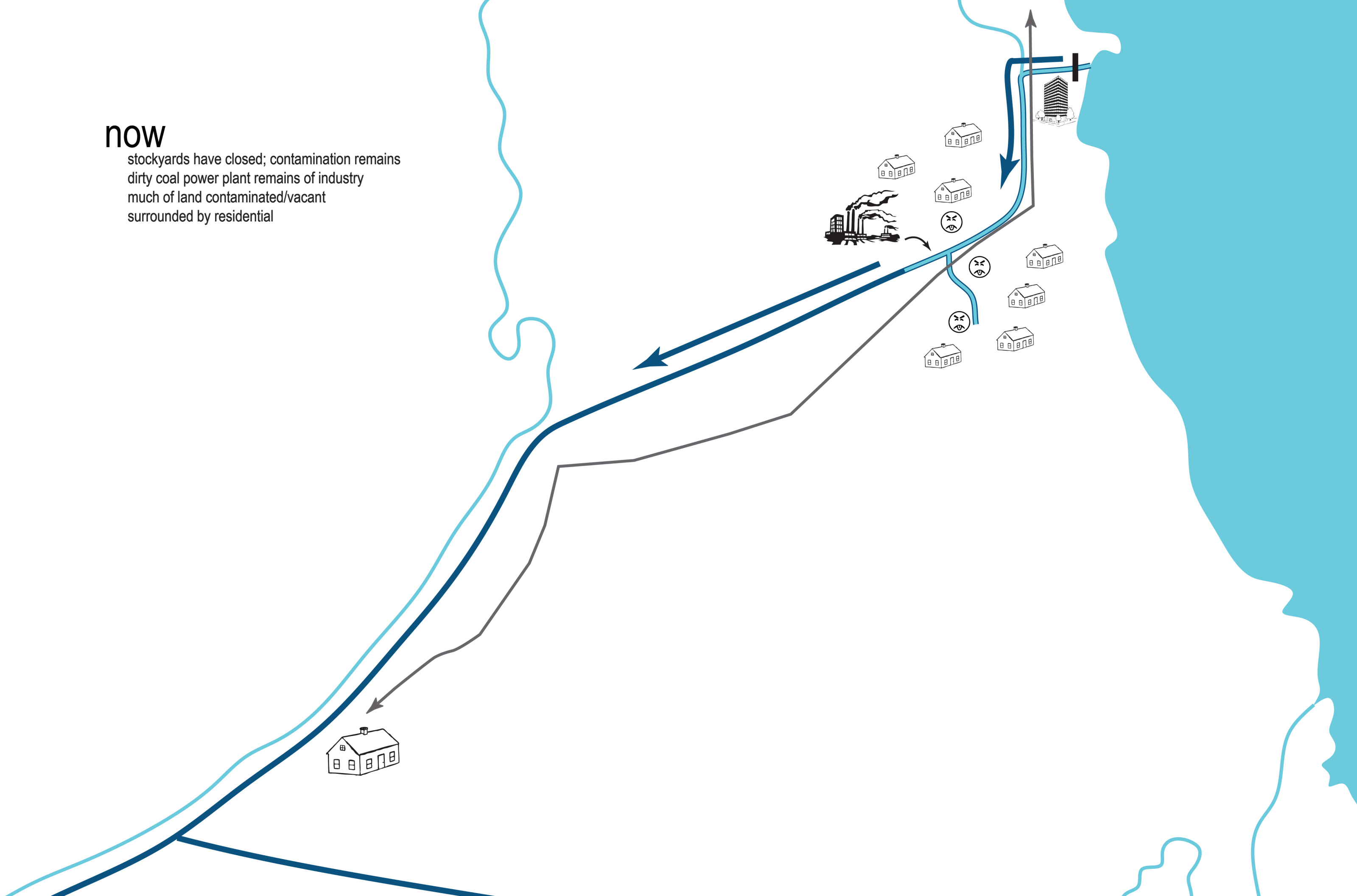
1900

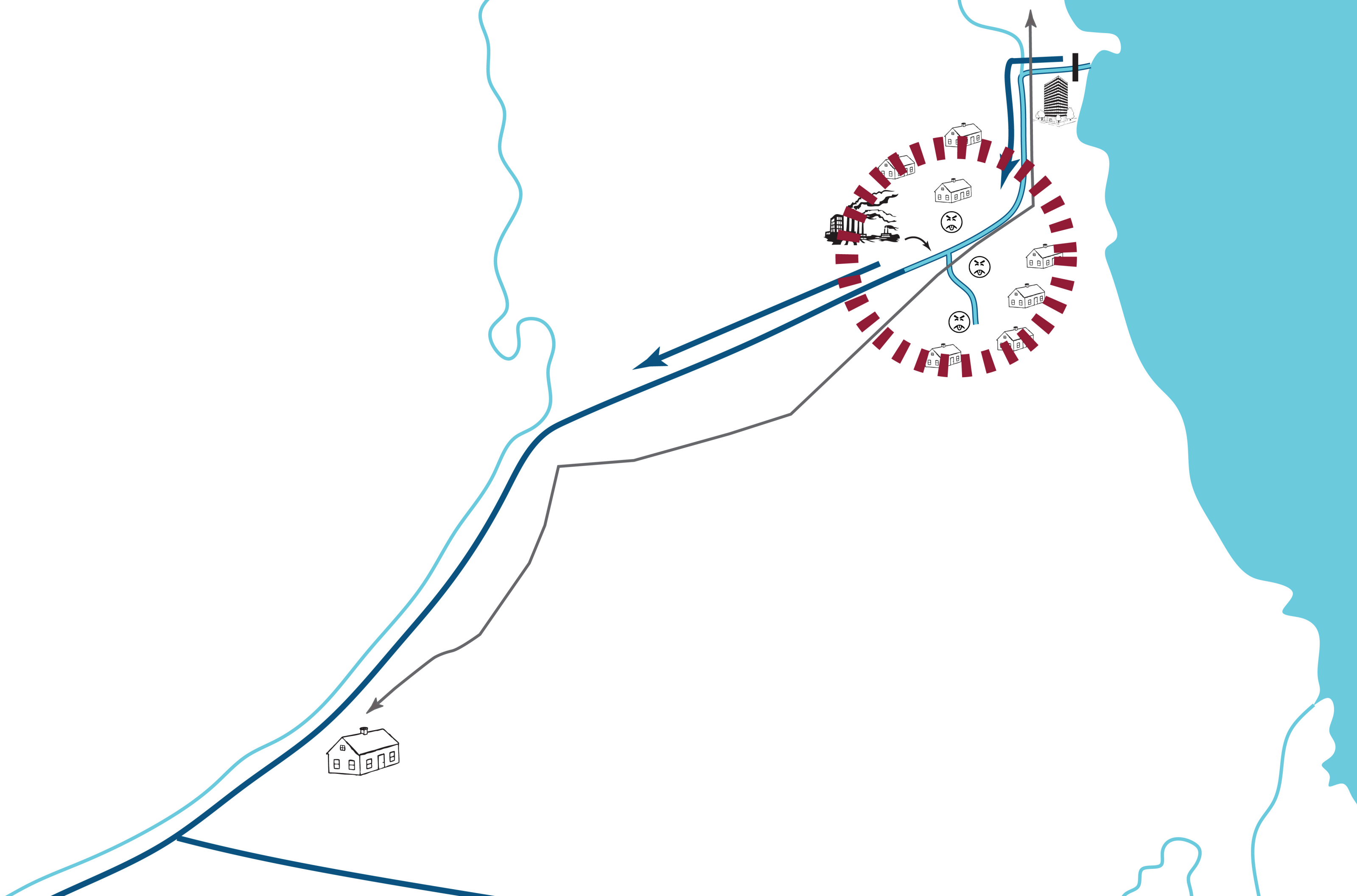
army core reverses chicago river flow  
passage into lake controlled by locks  
all water used by chicago now flows to  
gulf of mexico



# now

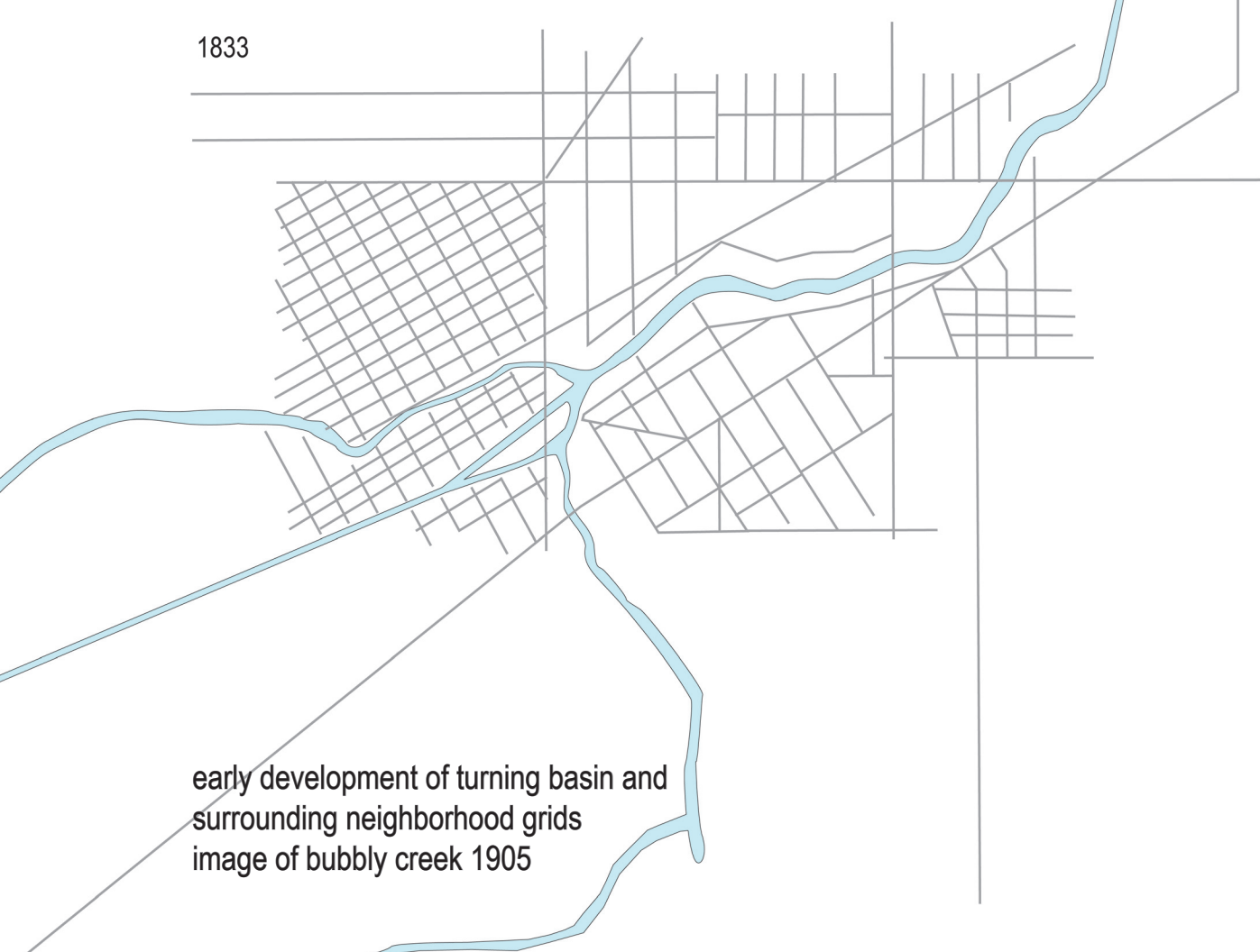
stockyards have closed; contamination remains  
dirty coal power plant remains of industry  
much of land contaminated/vacant  
surrounded by residential







1833



early development of turning basin and surrounding neighborhood grids  
image of bubbly creek 1905

1858

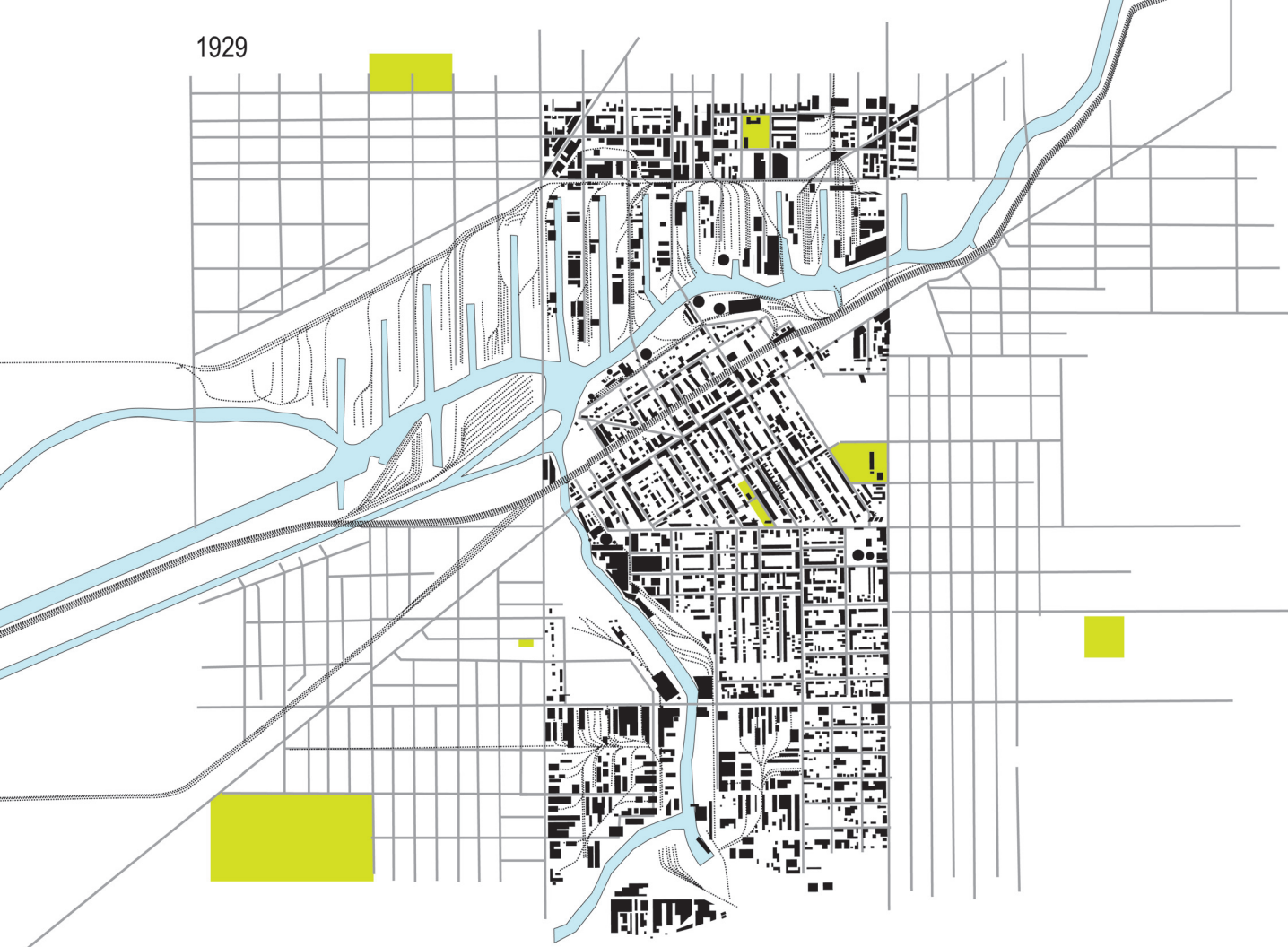


1883





1929



1986



2011



**figure ground analysis through time:**

1929 illustrates turning basin at peak activity

1986 show diminishing train and industry, influence of I-55 highway

2011 shows increased abandonment of industrial edge sites

also shows some suburban style, exclusionary residential projects



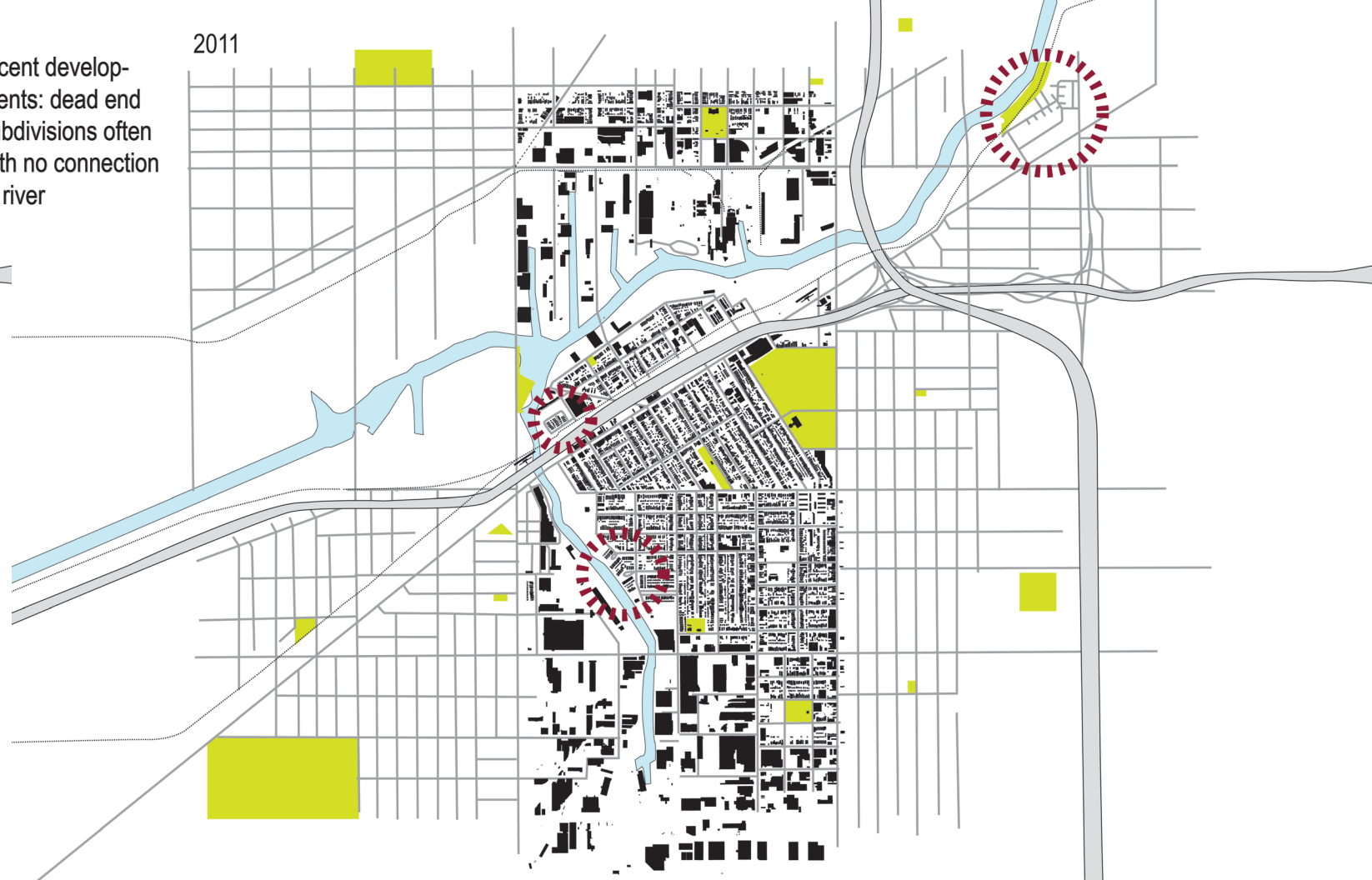
2011

three sites: 2 vacant and the existing coal power plant



2011

recent developments: dead end subdivisions often with no connection to river



2011

three new parks indicate city's intention to redevelop recreation sites from old industrial



2011

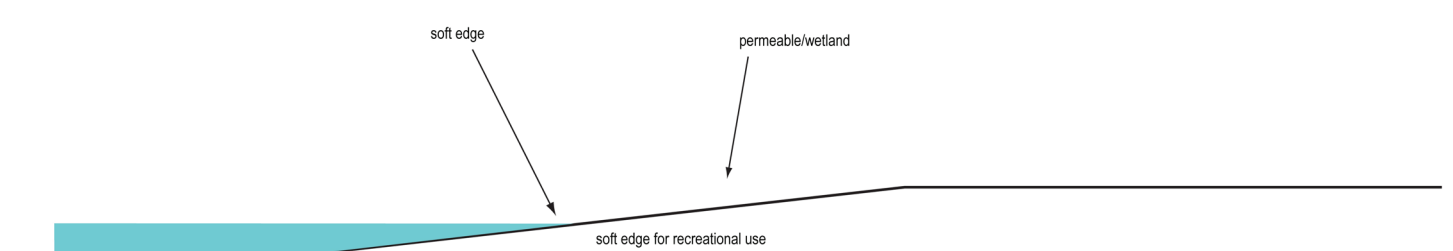
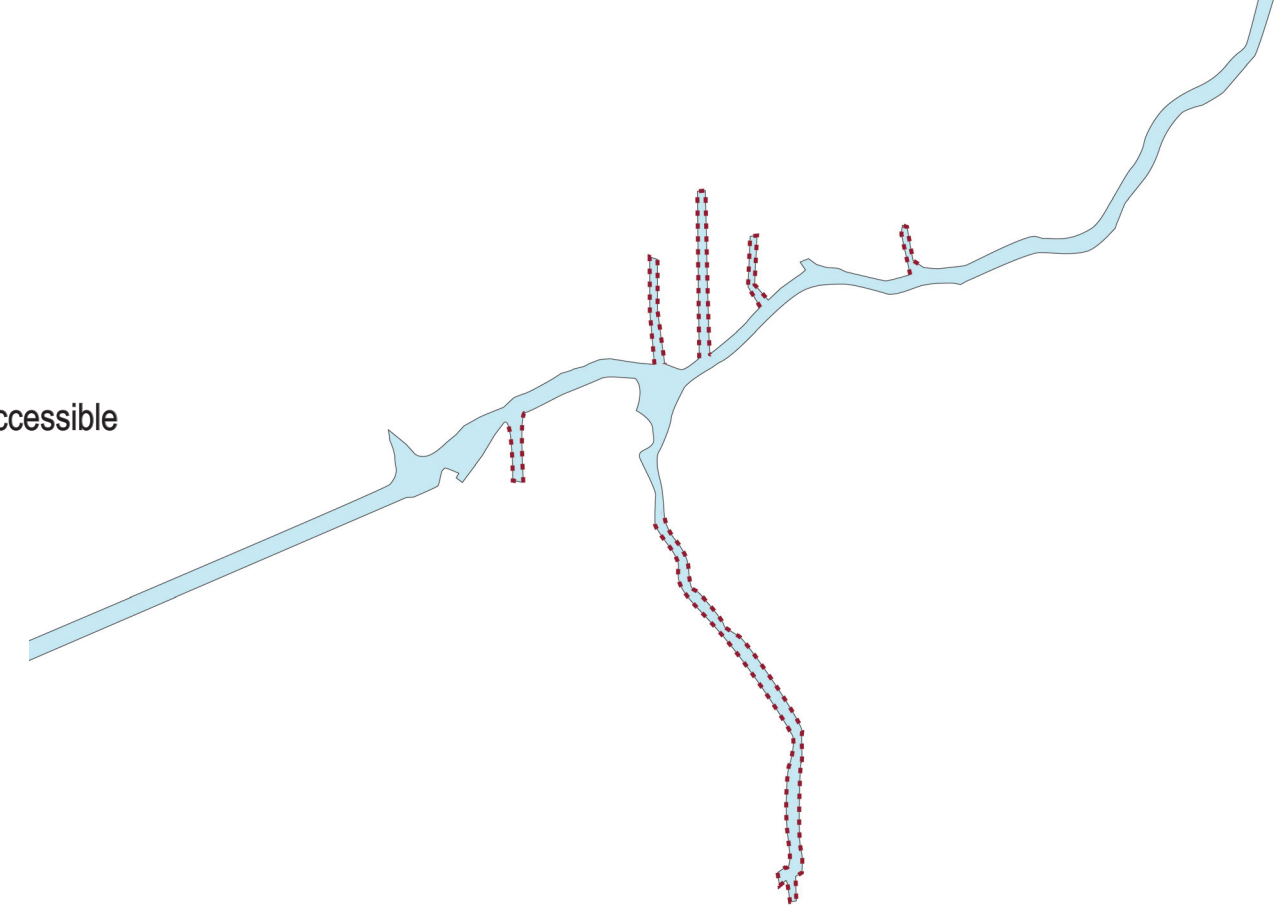
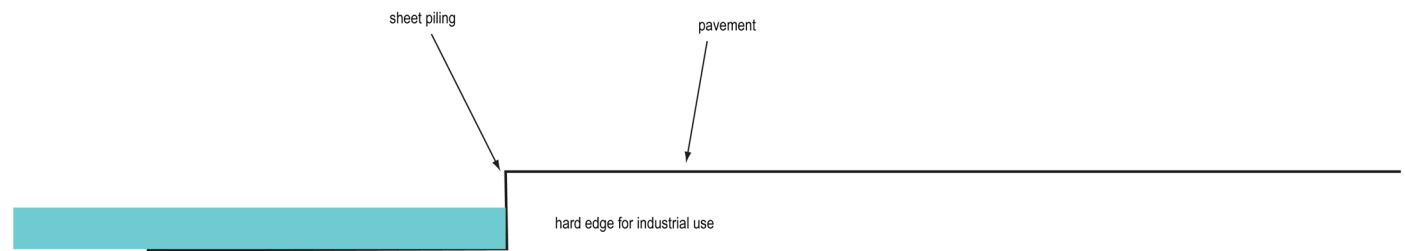
existing boat launch at western avenue, proposed boat launch at turning basin again shows interest in recreation



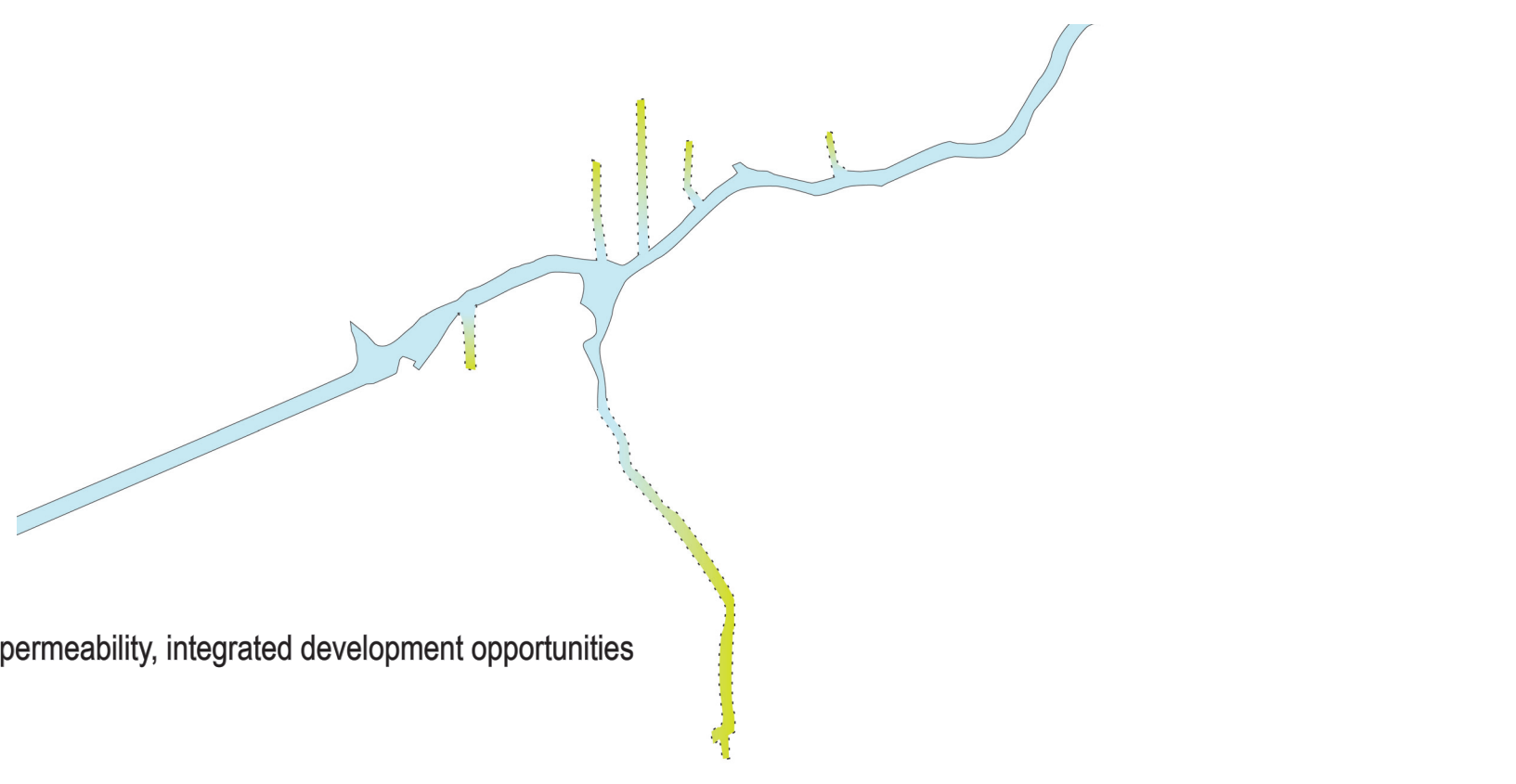




problem: unused industrial slips are scars in the landscape. barren, polluted, inaccessible



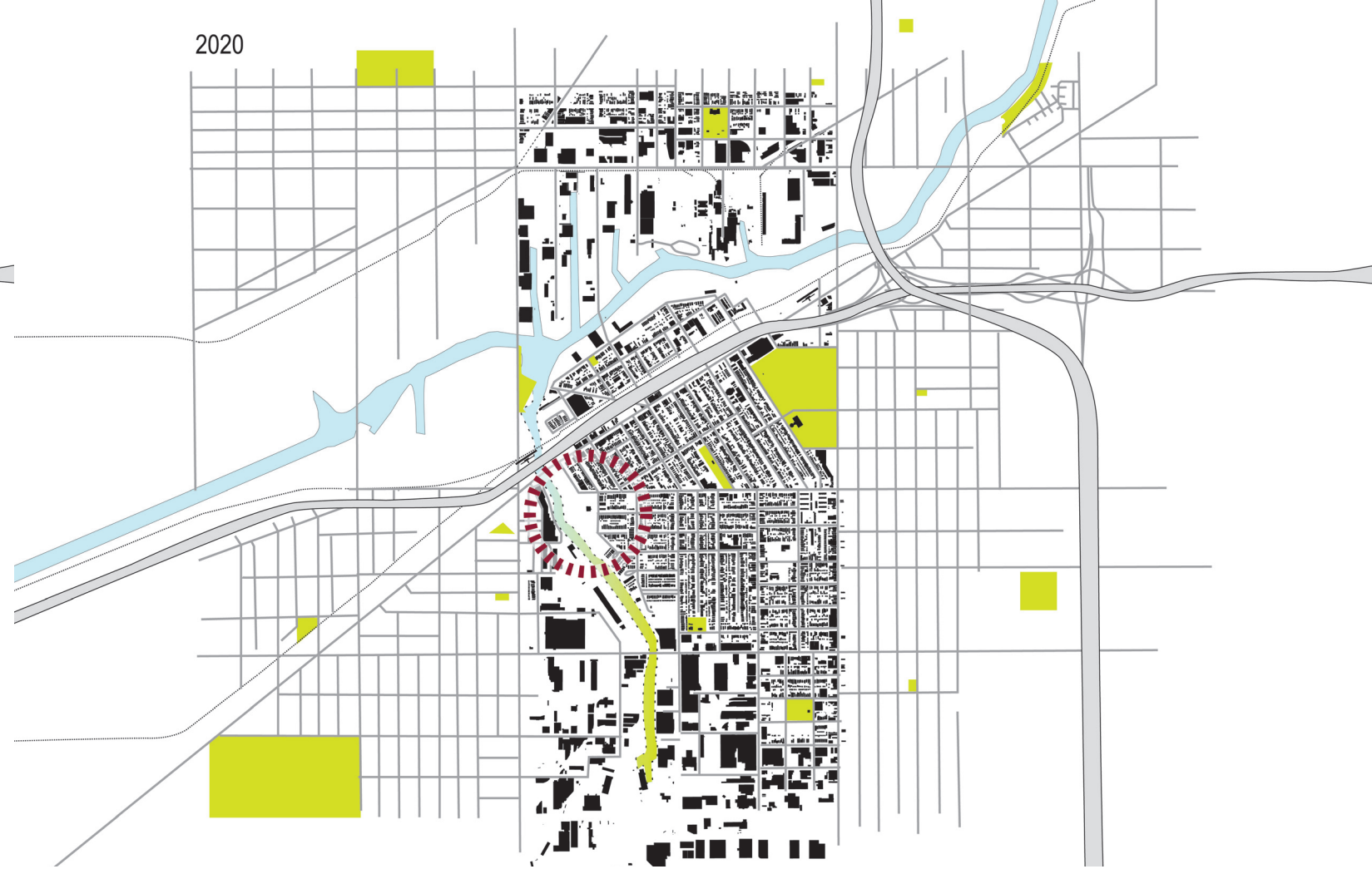
solution: softened edge provide habitat and ecological permeability, integrated development opportunities



2020



2020

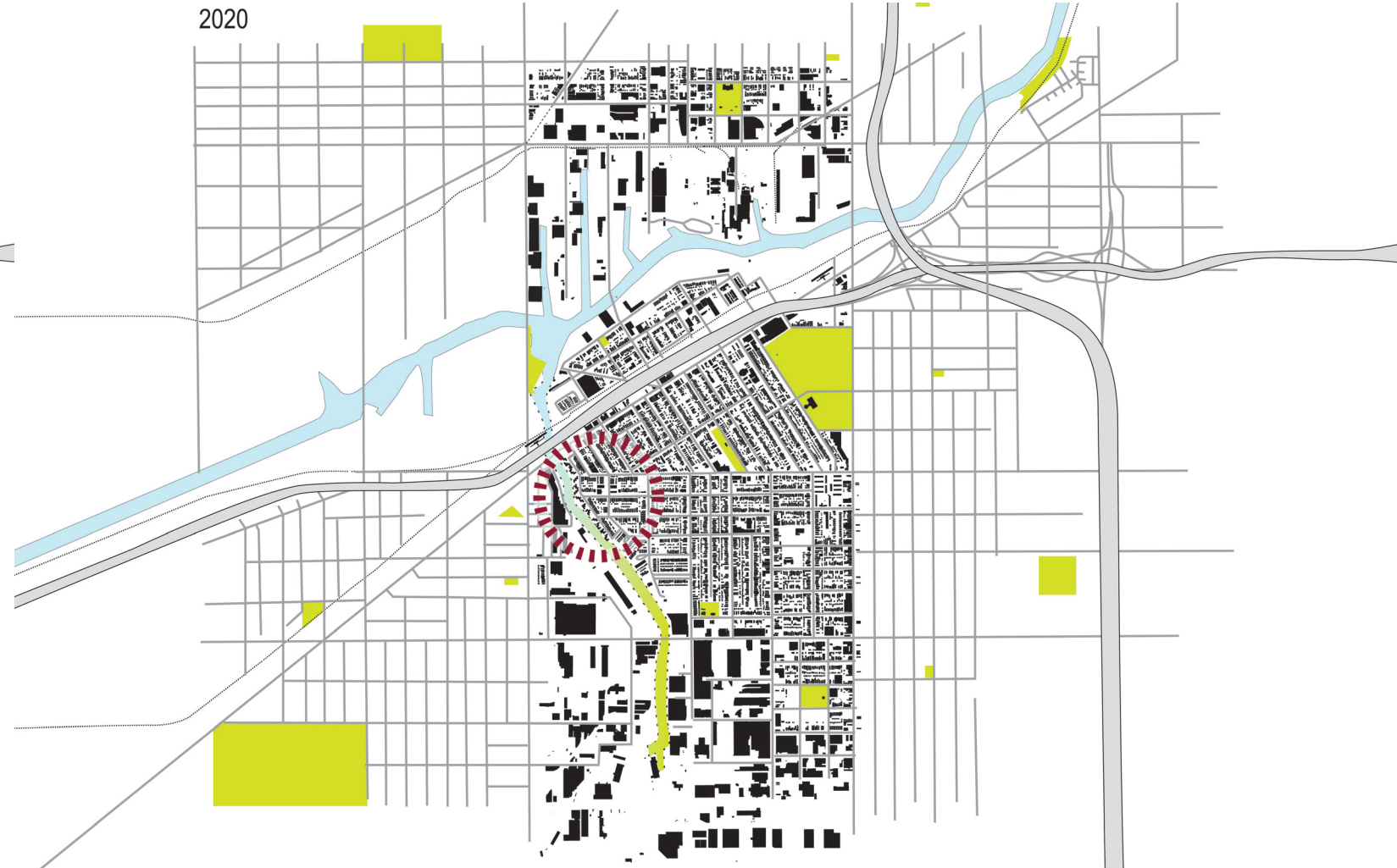


future implementation strategy starting at bubbly creek - bridgeport grids are pushed out to river edge, new development takes place in transition zone

2020



2020



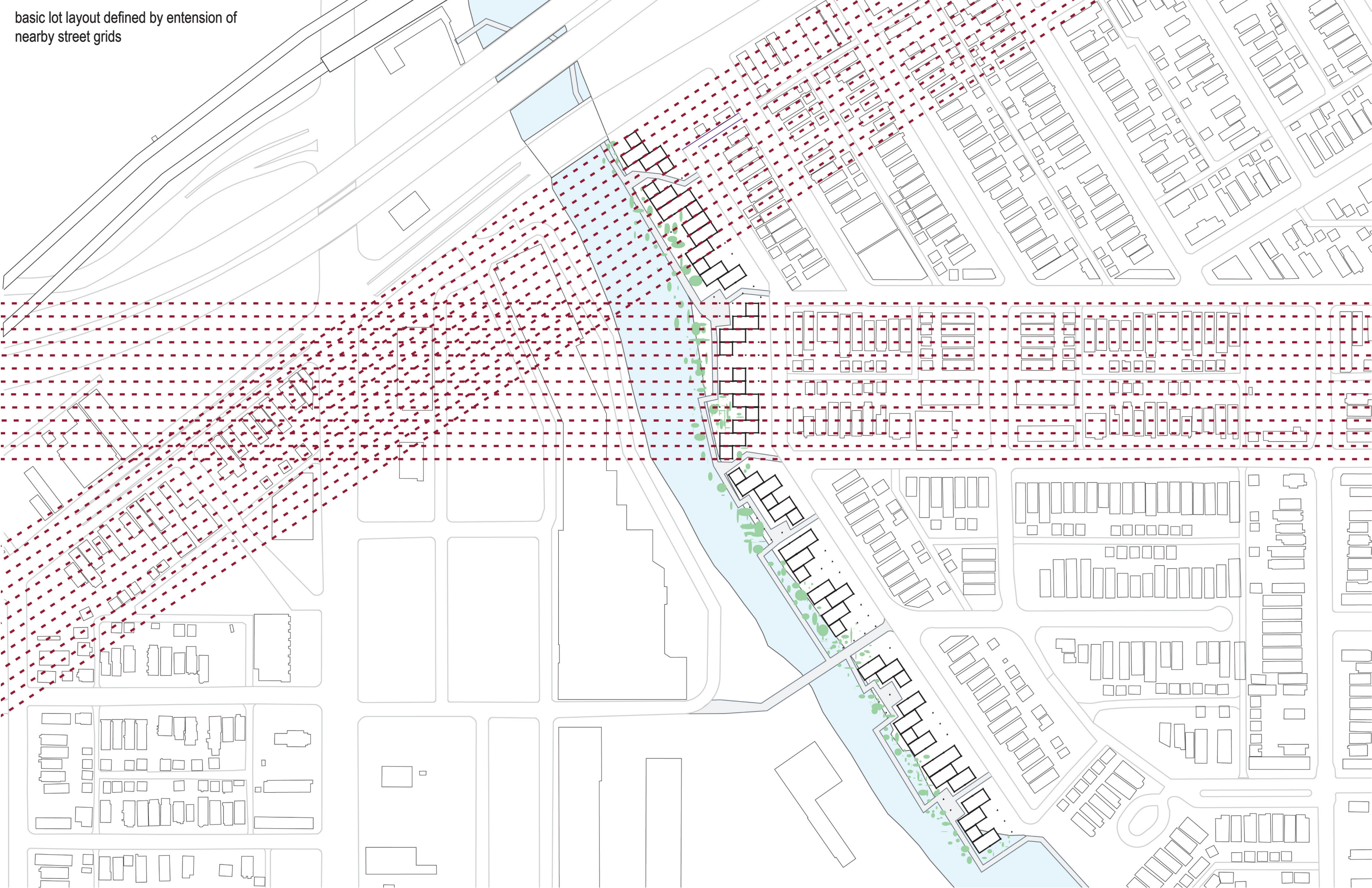


implementation strategy showing edge layout, boardwalk, wetlands, and connection to commercial and transit



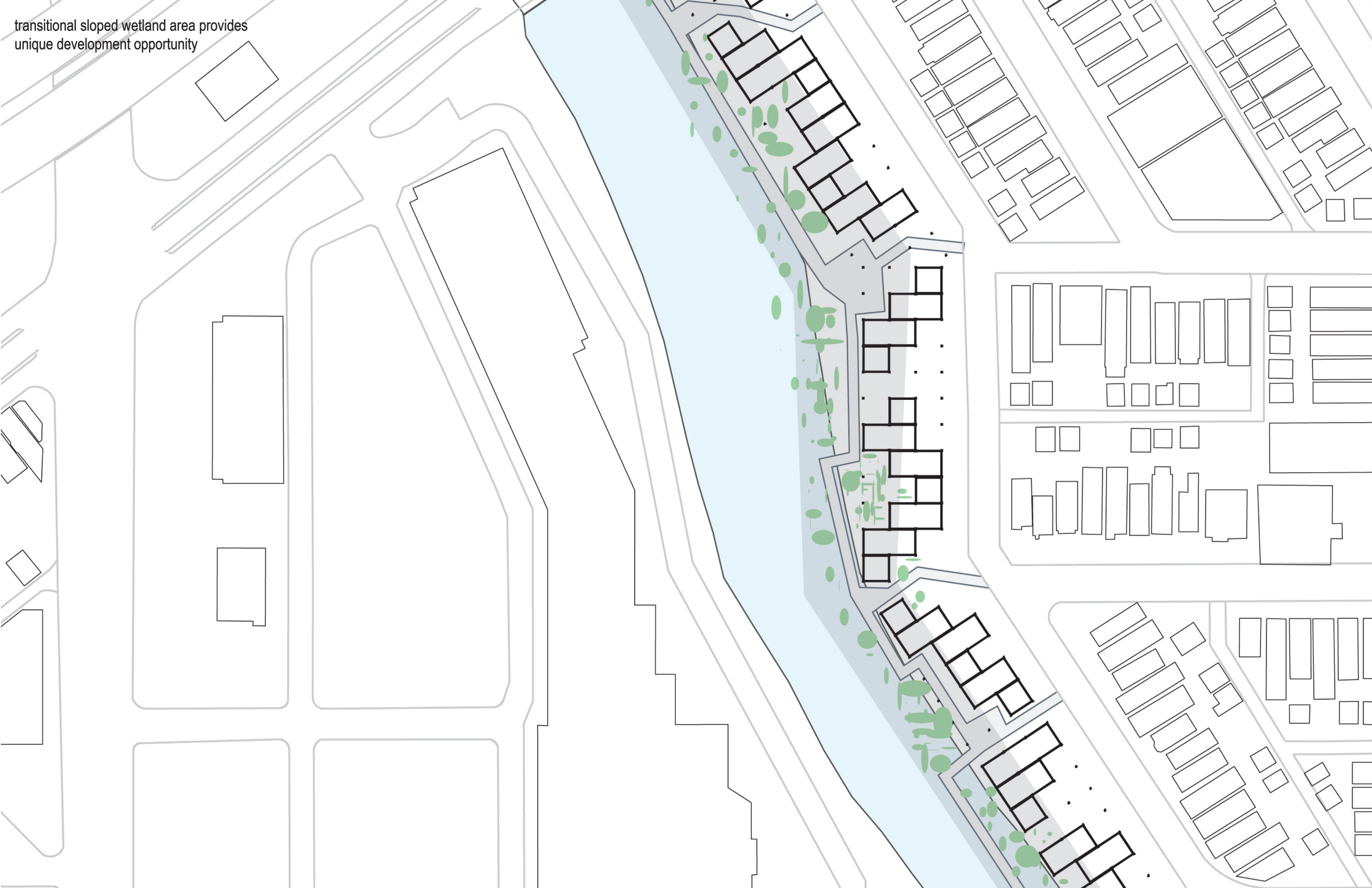


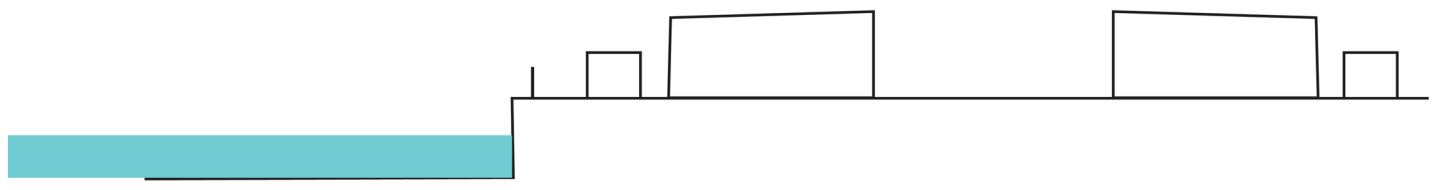
basic lot layout defined by extension of nearby street grids



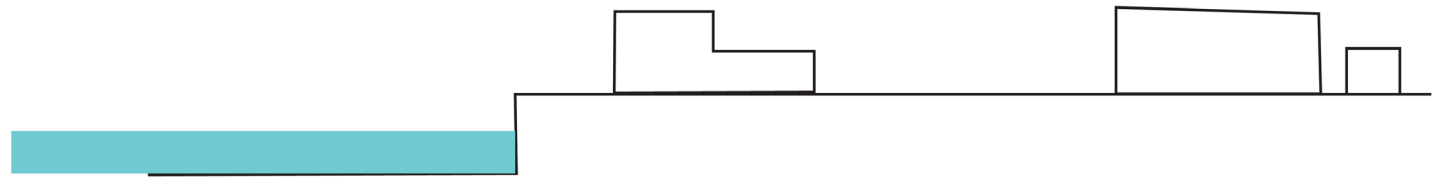


transitional sloped wetland area provides  
unique development opportunity

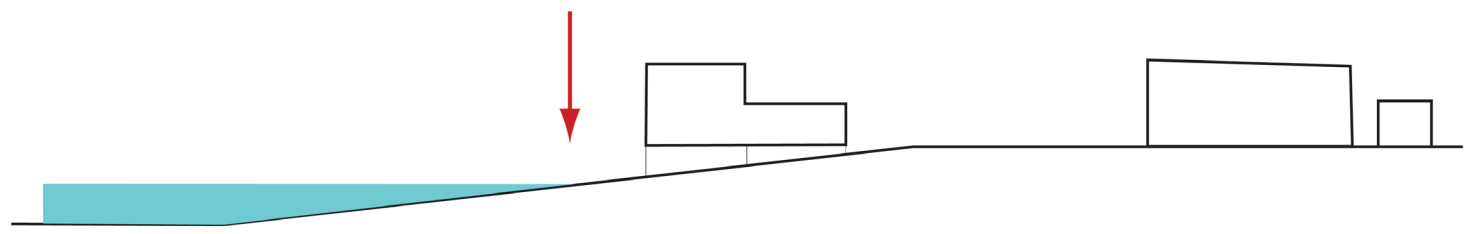




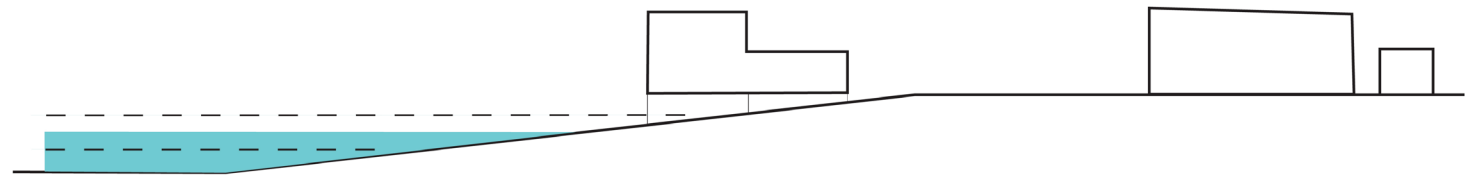
typical new riverside development - cuts off water connection



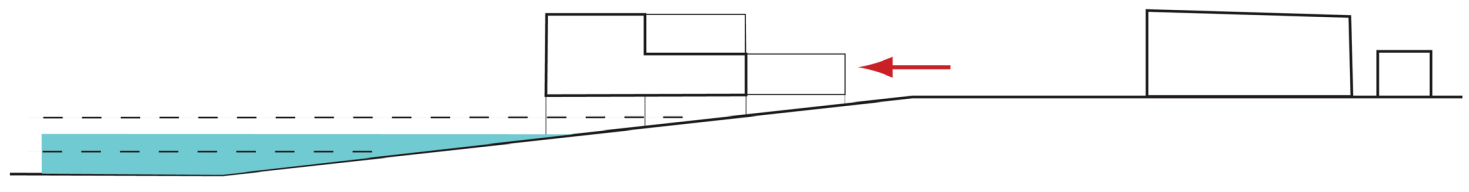
new development provides variably massed typology



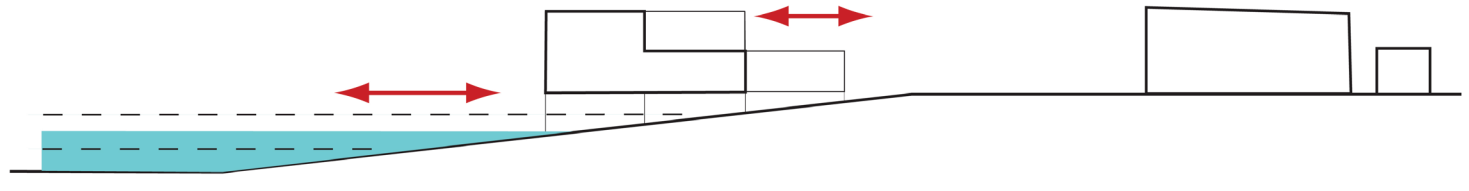
elevated structural system keep building on plane as slope descends



as water levels change, so do edge conditions



pushing units back allows permeability under buildings



increased permeability - constant interactive presence of river



boardwalk differentiates wetlands into distinct zones that can be simply engineered to provide different wetland ecologies and habitats







sedge  
hackberry  
wild rye  
mana grass  
blue aster  
gray dogwood  
black eyed susan  
coreopsis

inner zone supports ornamentals, flowers, and drought resistant plants





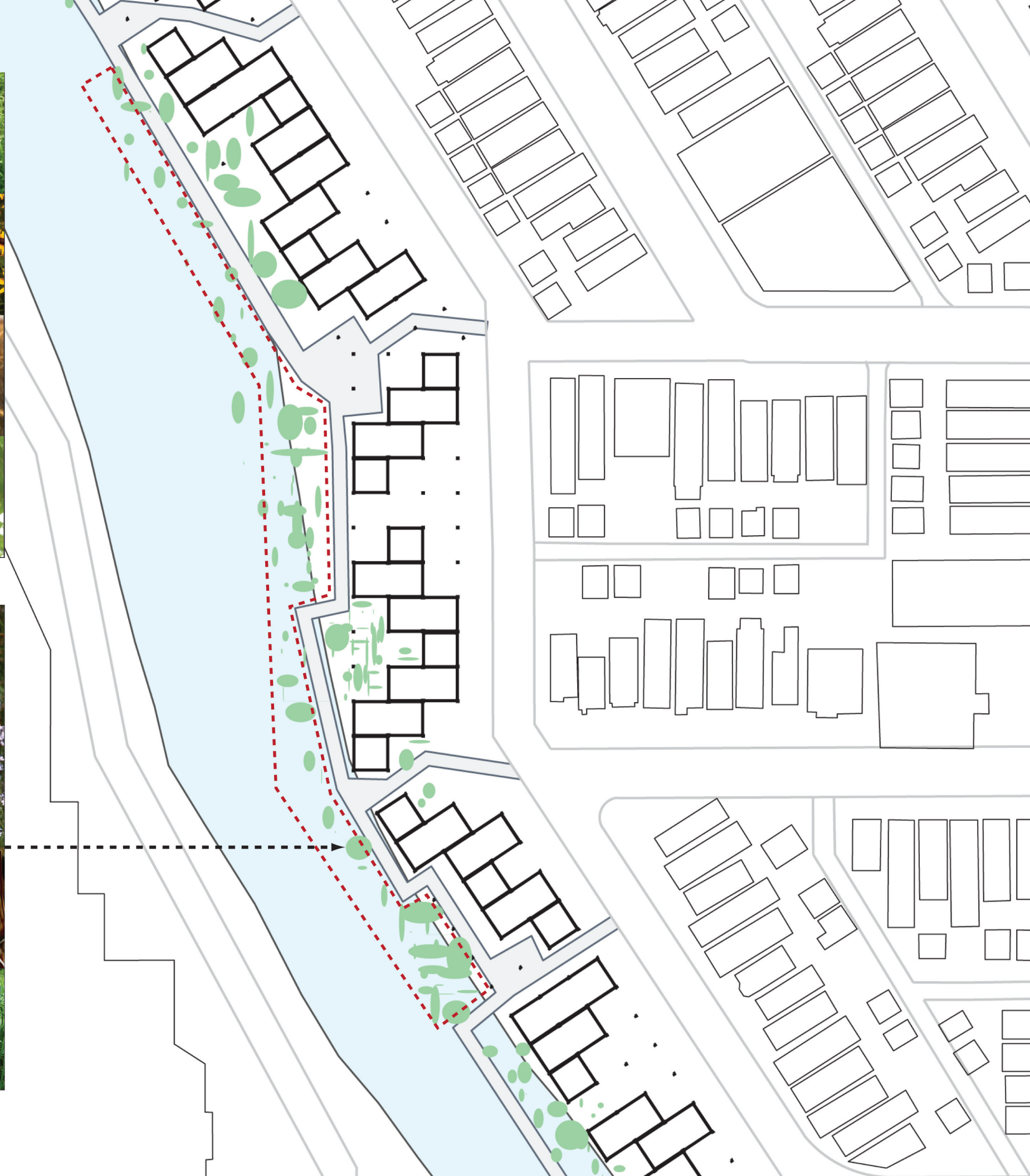
sedge  
hackberry  
wild rye  
mana grass  
blue aster  
gray dogwood  
black eyed susan  
coreopsis



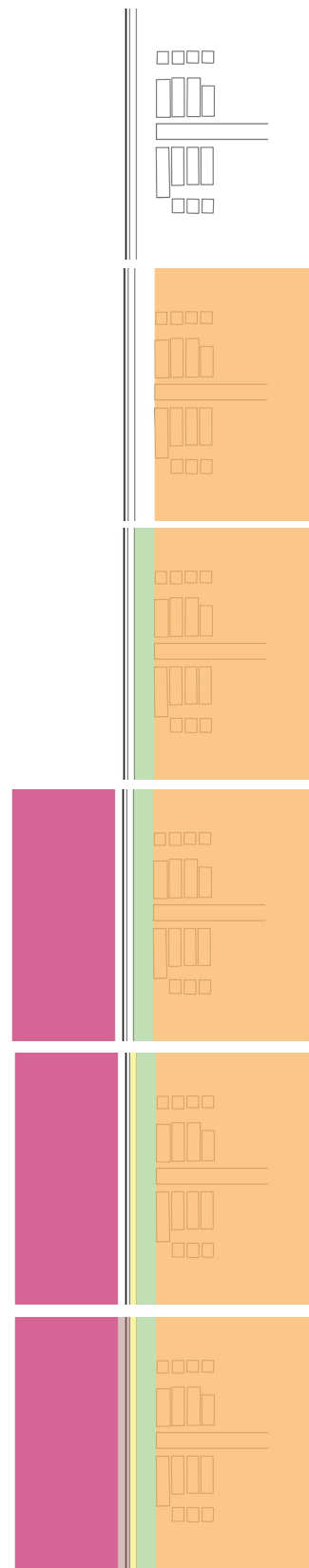
buttonbush  
spike rush  
blue vervain  
red osier  
dogwood  
cord grass  
cattail



outer zone supports hardy, nutrient tolerant fully submerged plants







**comparing typical development areas to proposed typology**

street & building

yard

river

path

dead space

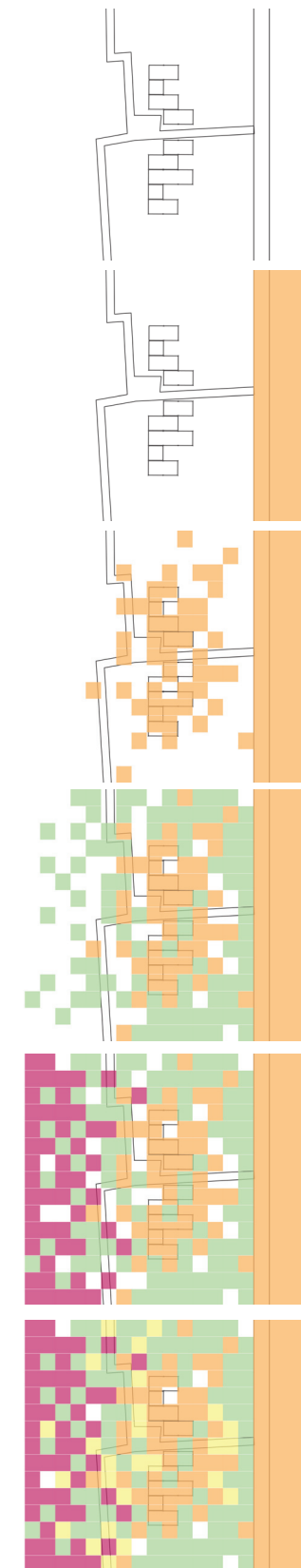
street

building

yard

river

path



2020

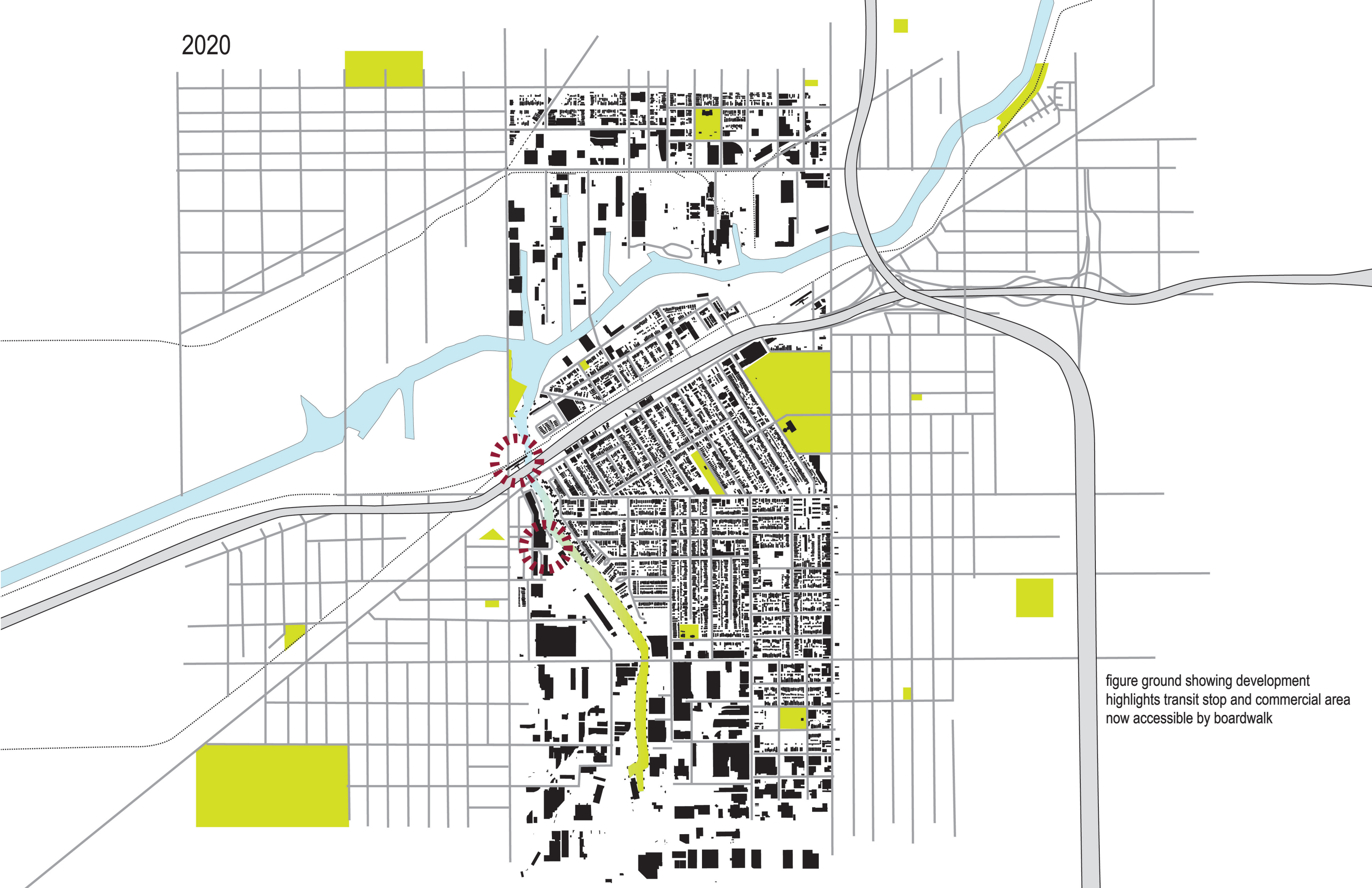


figure ground showing development  
highlights transit stop and commercial area  
now accessible by boardwalk





MARKER 2021  
BAU  
MARKER 2021  
BAU

MARKER 2021

perhaps this...





can become this.



2025



2030



2030



implementation of similar strategy in rest of turning basin results in inoperability of only slip currently in use, adjacent to fisk generating station.  
 this intervention would require the closure of the coal burning power plant



2011 DESIGN CHALLENGE PACKET

# The AiR We BREATHe

THE CHICAGO CLEAN AIR DESIGN CHALLENGE

overhead view of residential areas around the Fisk plant, frequent localized protests, and competitions suggesting the decommissioning and redevelopment of the plant indicate strong support for closure in the near future

lawsuits from city, state, and national organizations requiring massive renovations or closure of the plant - grandfathered past the clean air act - are currently pending



2030

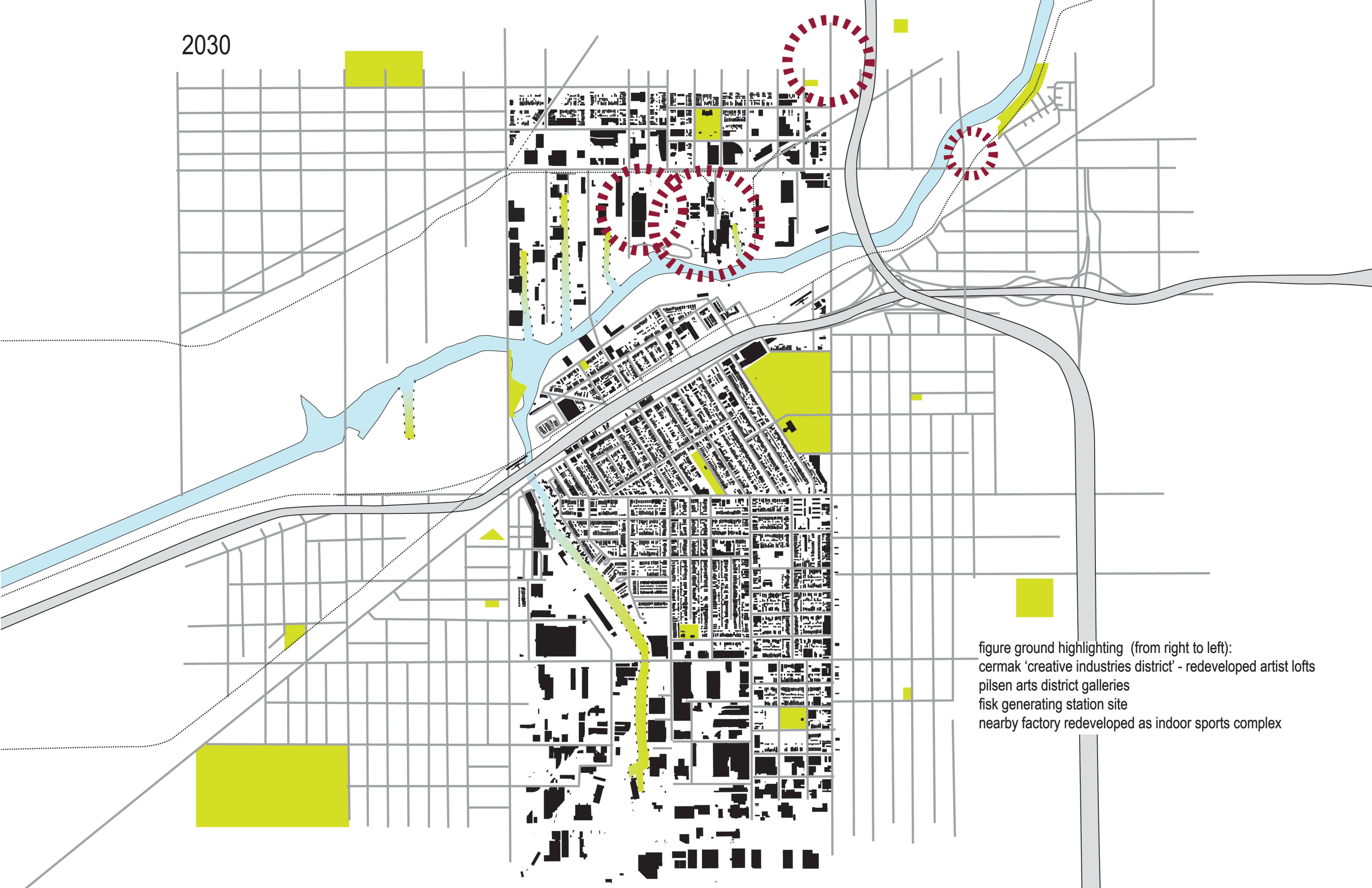


figure ground highlighting (from right to left):  
cermak 'creative industries district' - redeveloped artist lofts  
pilsen arts district galleries  
fisk generating station site  
nearby factory redeveloped as indoor sports complex





instead of a health hazard, public nuisance and a symbol of the area's contamination...





fisk could be redeveloped into a gallery and exhibition space with adjacent artist lofts  
infrastructure can be reused as recreation and urban agriculture sites  
ethanol production and solar canopies would become backdrops for weekend markets  
and unused train infrastructure could be adapted to light rail for district circulation



2040



2040



adjacent riverbank can be redeveloped in similar way, creating permeability, access, and density at the newly redeveloped turning basin

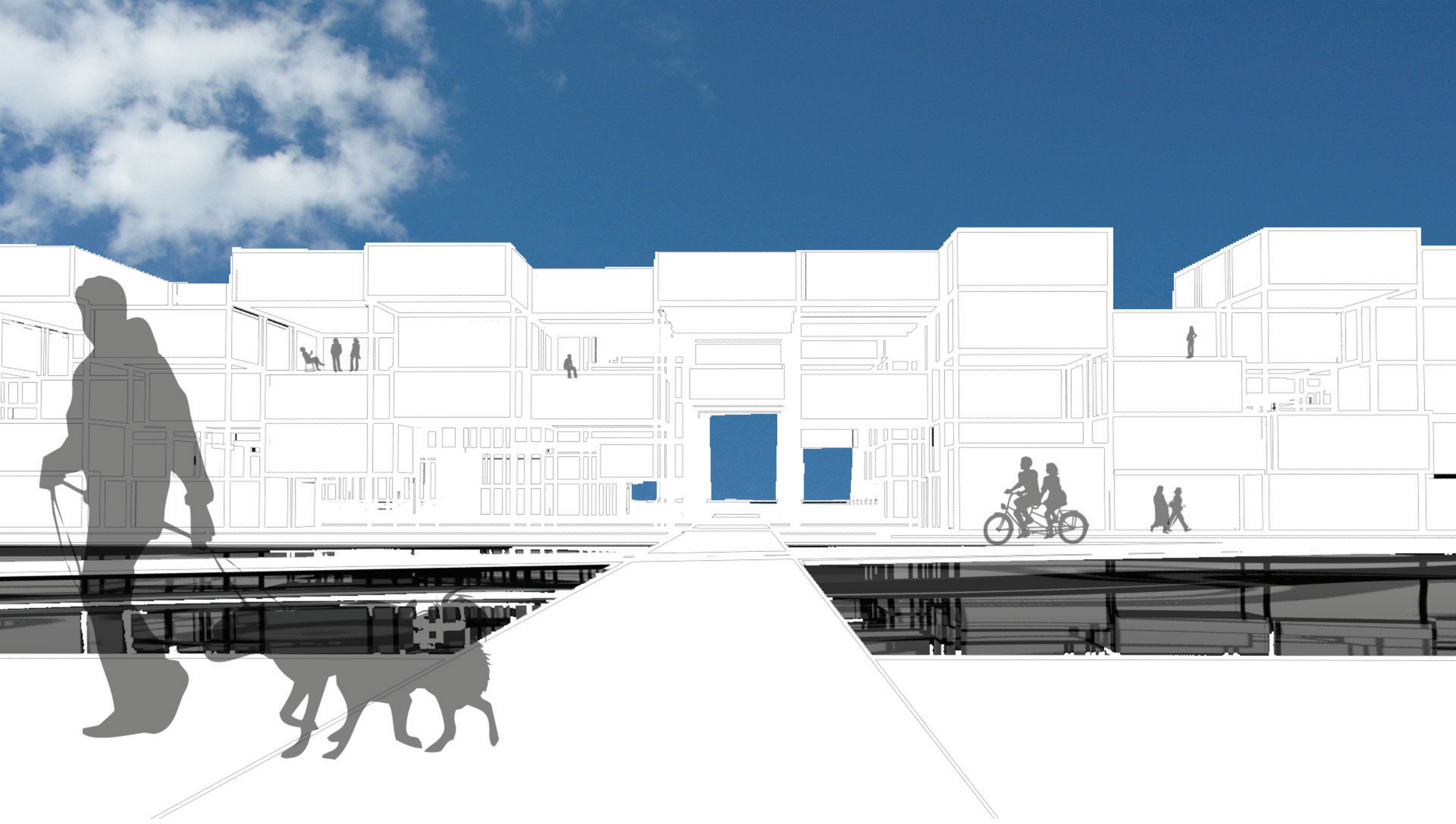
2040



2040







schematic rendering exploring new edge conditions





sketch exploring permeability / access





sketch comparing housing typologies



material / massing study

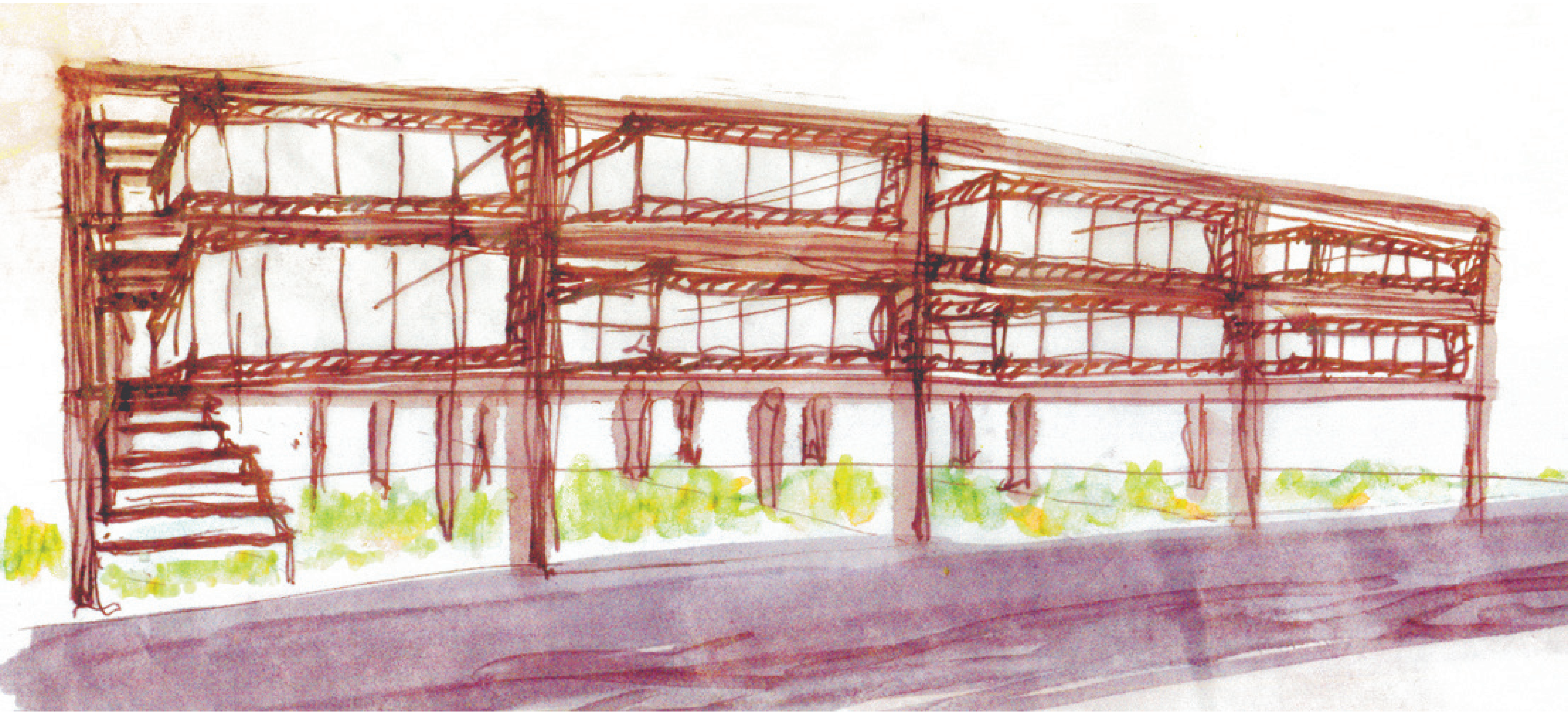




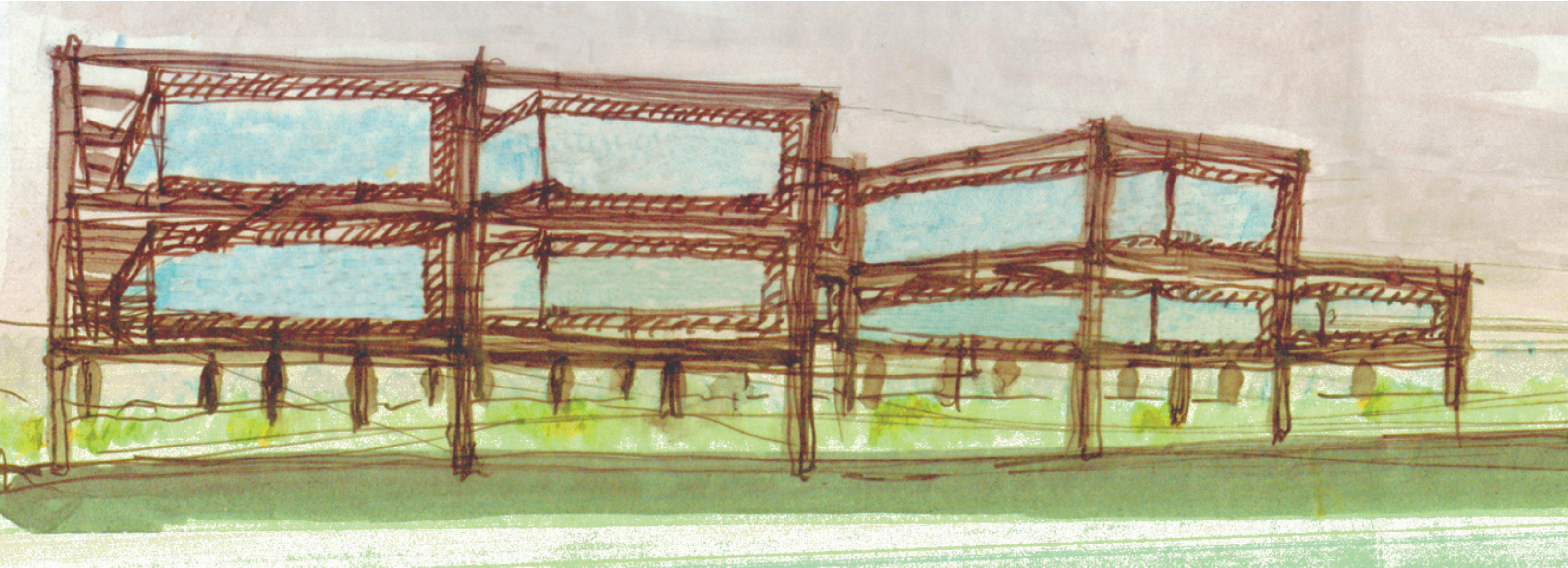
render of activity at water's edge



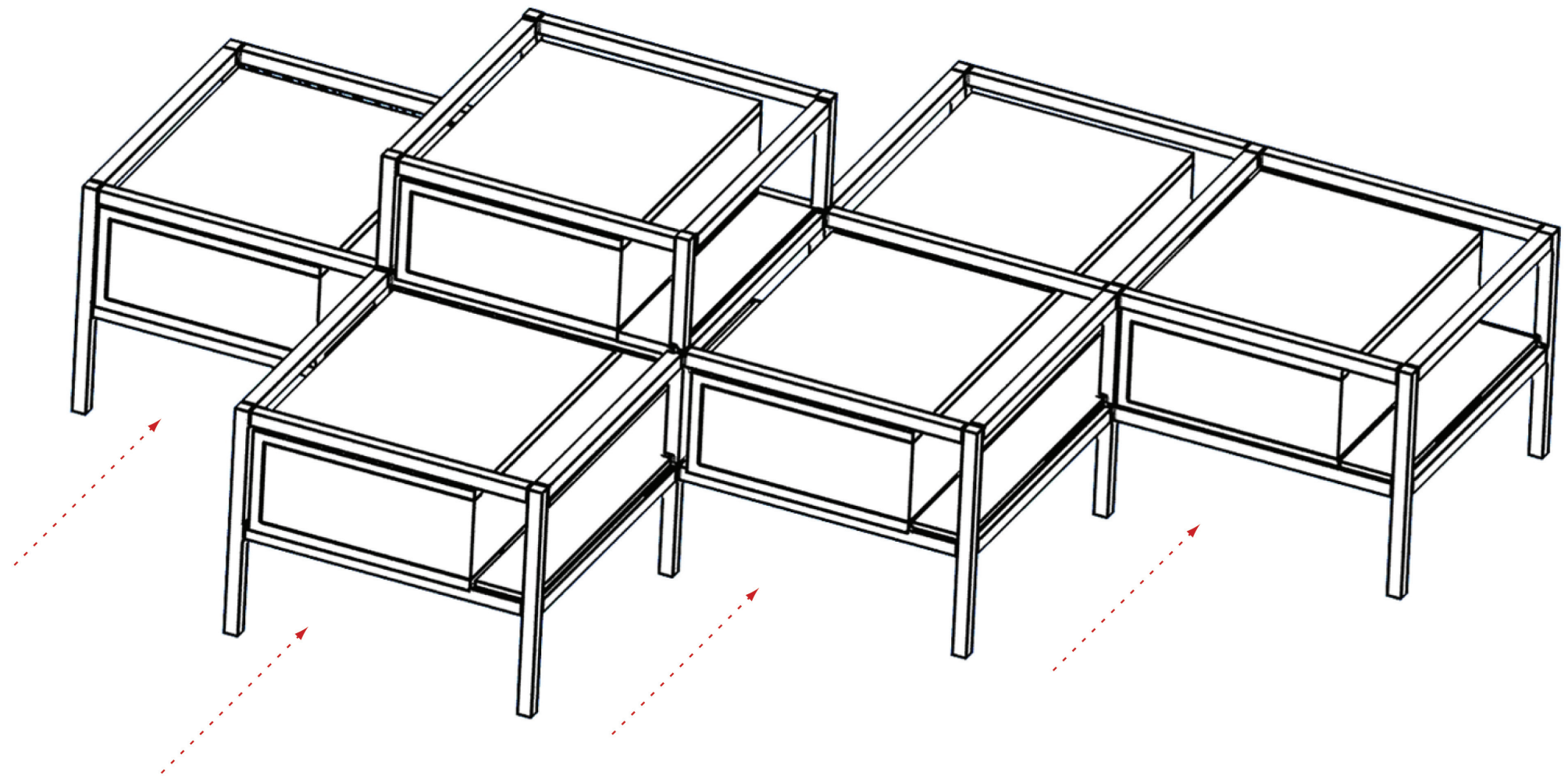
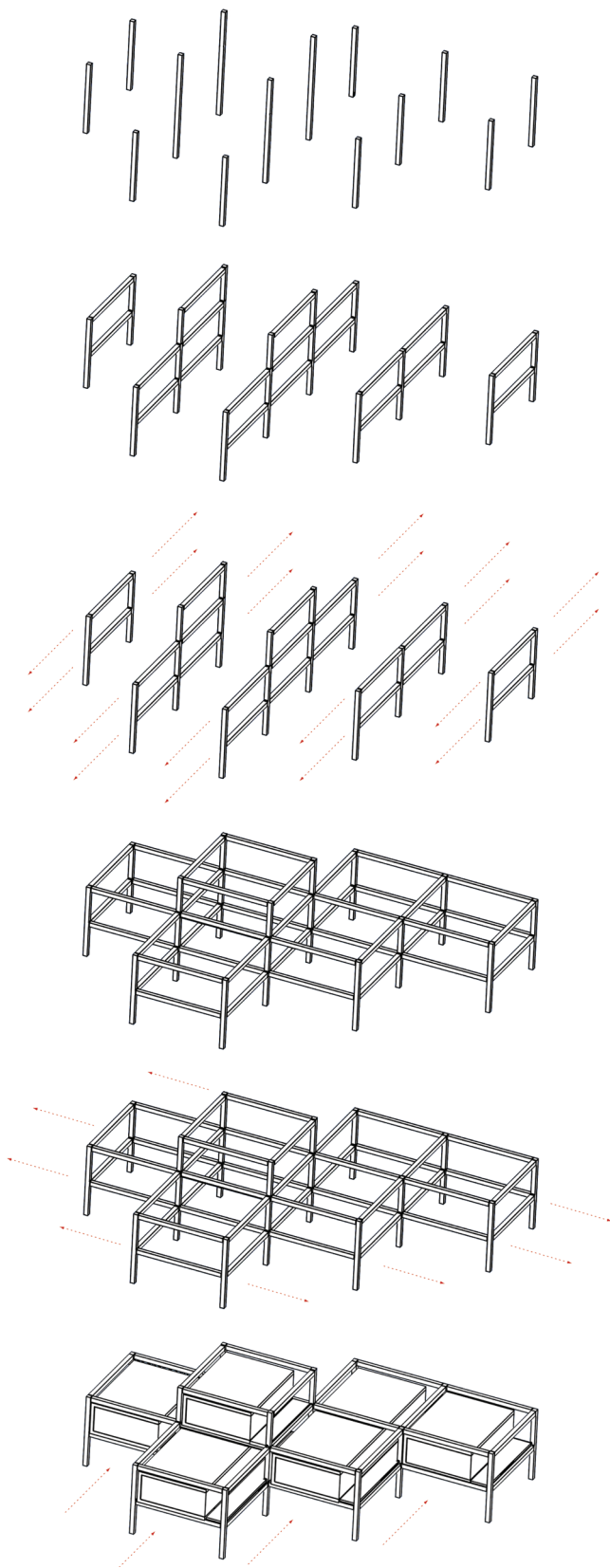












modular typology is adaptable to many scales  
post tensioned structural system can be quickly assembled  
customized housing clusters adjust to site conditions readily and are constructed quickly



2040



by 2040 the south fork turning basin could be transformed





this site that is currently disconnected and abandoned even in the summer...

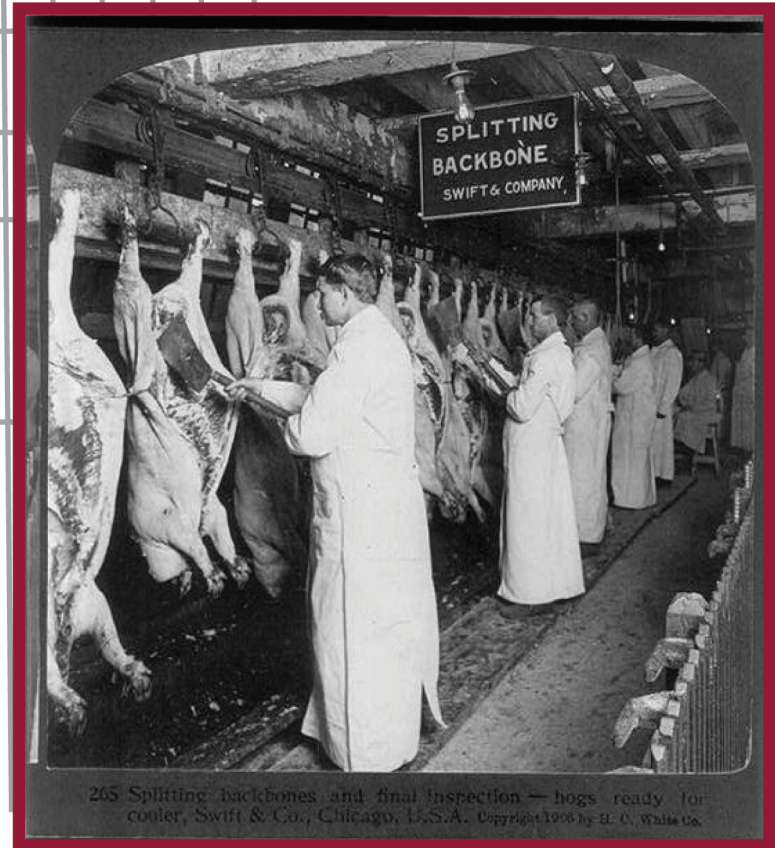


could become a site filled with life and activity, even in winter.





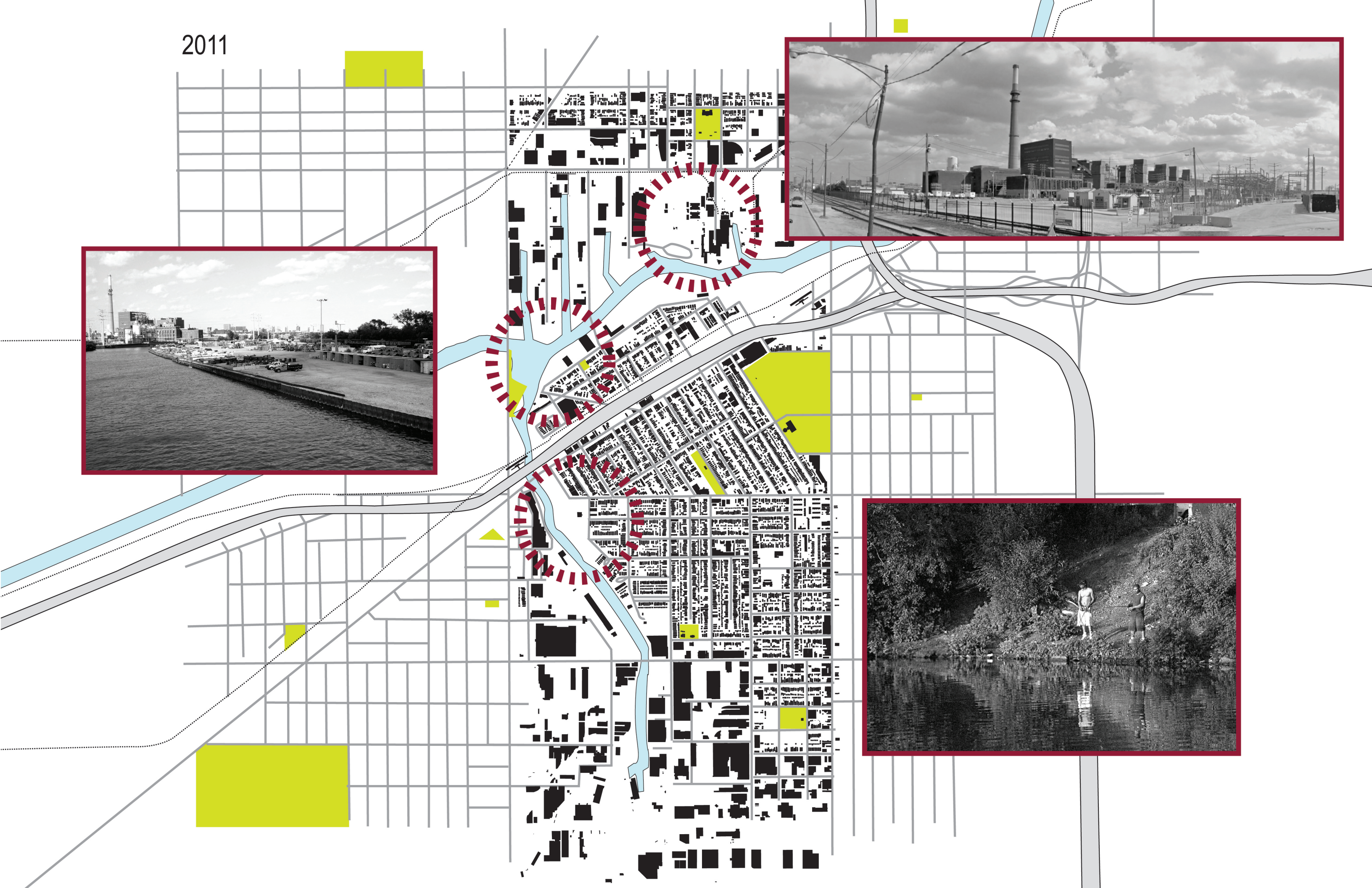
1929



265 Splitting backbones and final inspection — hogs ready for cooler, Swift & Co., Chicago, U.S.A. Copyright 1908 by H. O. White Co.



2011





2040

