RIVER CORRIDOR PLAN SUPPLEMENTAL MATERIALS

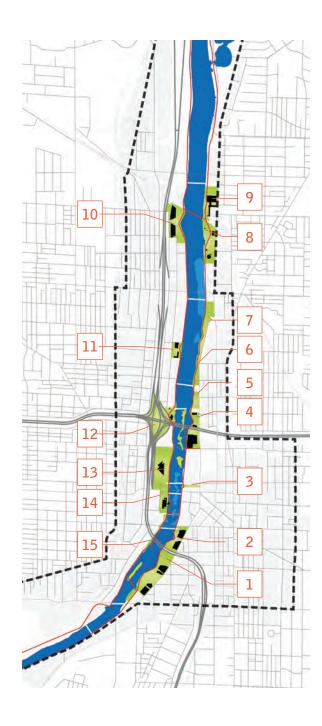


APPENDIX 1 >>

Building off the feedback from the public process, a series of priorities were developed that frame and expand upon the idea that certain spaces can be prioritized as they relate to: the possible scale and location of the program, the expansion of program into all four seasons, activation of places, and the inclusion of art. From this process, 15 priority riverfront opportunity sites were identified based upon their ownership status, their need for flood protection infrastructure improvements, and the potential use of these sites as construction staging areas for the GRWW initiative. Each of theses sites has one of four types of open spaces that help to create the new park system: Public Development Sites, Public/Private Partnerships, New Parks and Renovated Park. The detailed descriptions and elaboration on those types can be found in the main report under Goal 1. The illustrative content in this document portrays the intent of the GR Forward masterplan. The exhibits are conceptual in nature and serve as a resource and the basis of further coordination, technical recommendations, and potential implementation.

OPPORTUNITY SITES	3
PHASE II SITES	115
SUPPLEMENTAL SITE ANALYSIS	3130
WHITEWATER - RIVER RESTORATION	171

APPENDIX 1 OPPORTUNITY SITES



- 1 201 Market
- 2 Fulton + Market
- 3 Lyon Street
- 4 MSU / KC / City
- 5 6th Street
- 6 Canal Street
- 7 Coldbrook
- 8 Adventure Park
- 9 Baker Furniture

- 10 KCRC River Edge
- 11 Grandview Park
- 12 Rapids View Park and Interchange Park
- 13 Ah Nab Awen Park
- 14 Public Museum
- 15 GVSU





FIG A1.1: Birds-eye view of the Grand River looking north

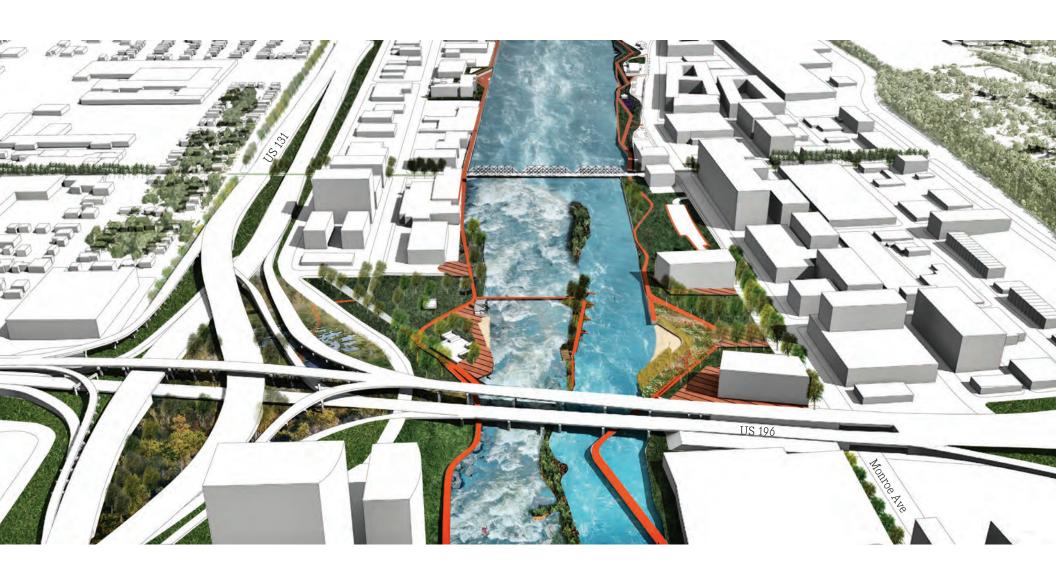


FIG A1.2: Birds-eye view of the Grand River looking north





 $\label{eq:FIGA1.3:Birds-eye} \textit{FIG A1.3: Birds-eye view of the Grand River looking north}$

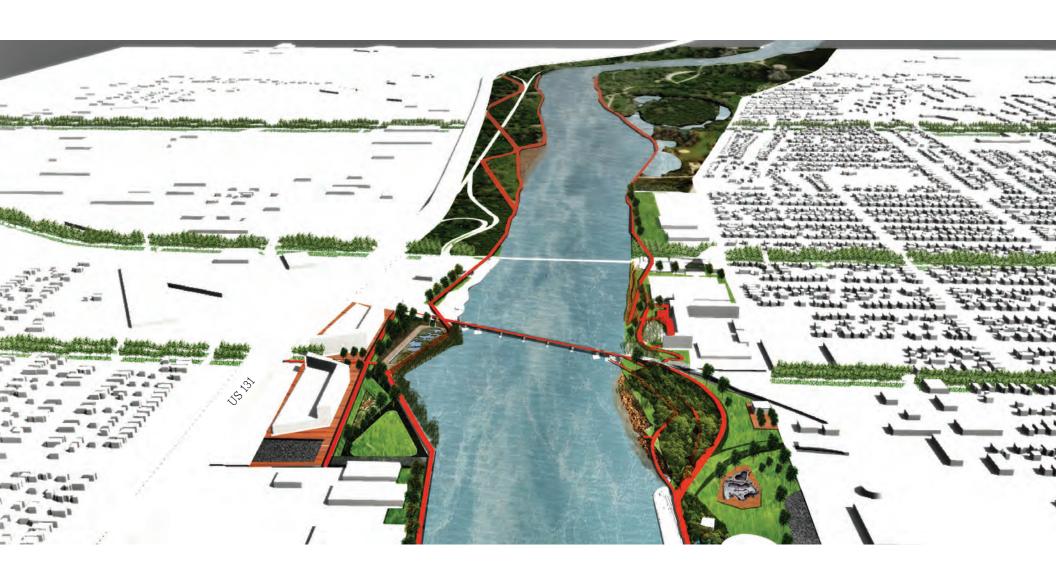


FIG A1.4: Birds-eye view of the Grand River



>> 201 Market Street



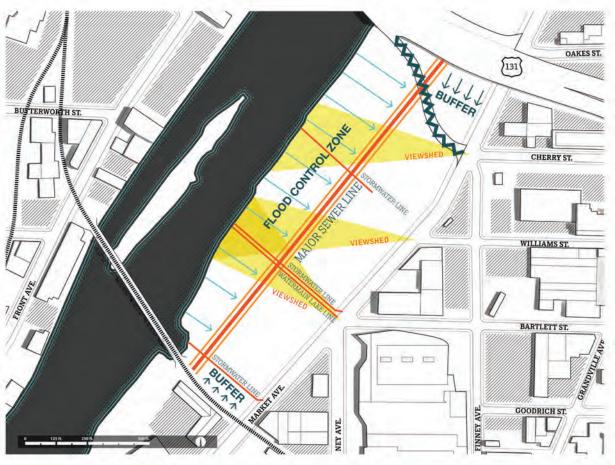


FIG A1.5: 201 Market Street opportunities and constraints

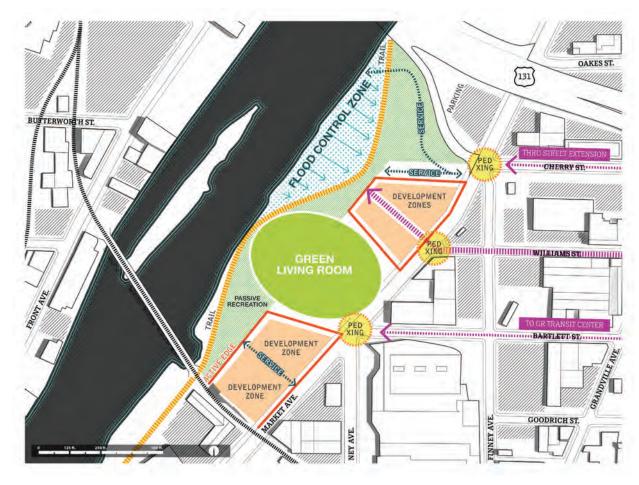


FIG A1.6: 201 Market Street concept design

> Major sewer line with easement, one minor sewer line, 2 stormwater lines, 48" lake line

The goals of 201 Market are:

- > Create a destination, and large scale programmable open space
- > Manage flooding through the design of the landscape
- > Provide an ecological edge that manages on site stormwater and provides river habitat
- > Provide river access including boat access
- Provide a continuous multi-use trail connection and a connection north
- > Ensure there are active uses facing both Market Street and the River
- > Buffer 131 and the rail line from the open space
- Create safe intersections along Market Street
- > Establish a gateway at Cherry Street
- Establish new housing and supporting uses to active the River
- Visually extend "Downtown" south along the River

Flood Managment Method

> Wetland terracing to berm and trail





FIG A1.7: Proposed 201 Market Street site plan

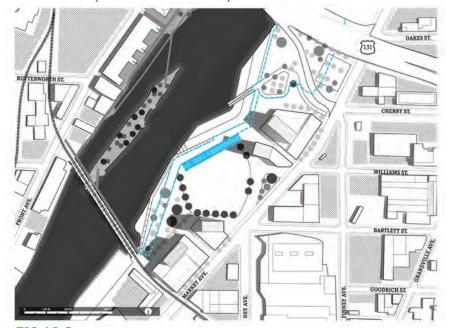


FIG A1.9: 201 Market Street flood considerations

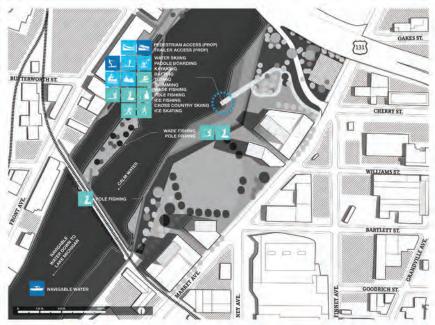


FIG A1.8: Proposed 201 Market Street water access

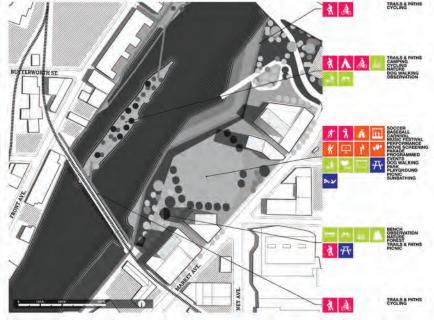


FIG A1.10: Proposed 201 Market Street land program

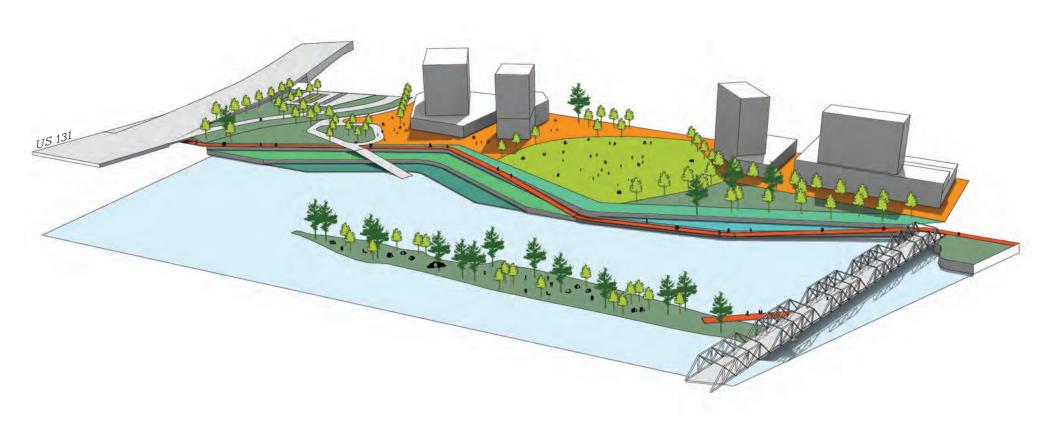


FIG A1.11: Proposed 201 Market Street aerial view



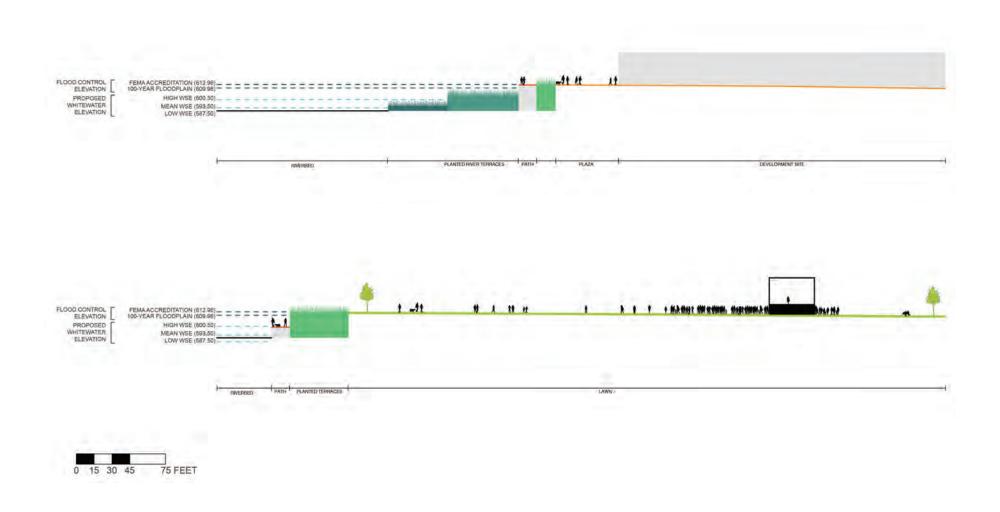


FIG A1.12: Proposed 201 Market Street site sections



FIG A1.13: Proposed 201 Market Street aerial rendering



>> Fulton + Market



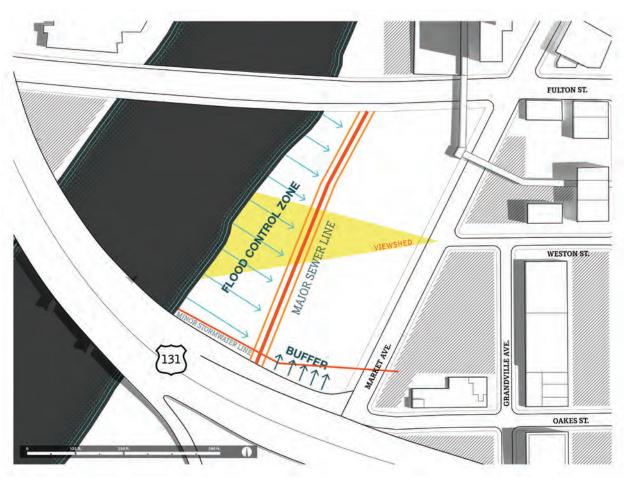


FIG A1.14: Fulton + Market opportunities and constraints

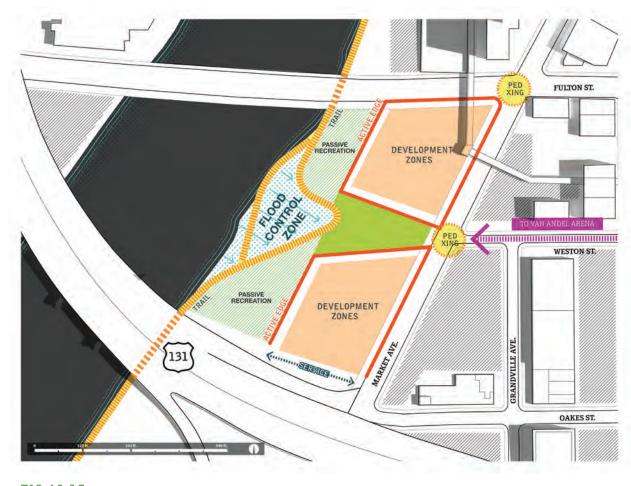


FIG A1.15: Fulton + Market concept design

> 1 major sewer line with easement, 1 stormwater line

The goals of Fulton + Market are:

- > Manage flooding through the design of the landscape
- > Provide a sloped/terraces landscape that allows the public to experience the river
- > Provide a continuous multi-use trail connection
- > Provide outdoor spaces to support ground floor uses
- > Bring the idea of water into the site, celebrate site stormwater management as a feature
- > Ensure there are active uses facing Market Street, Fulton Street and the River
- > Buffer 131 from the open space
- > Establish a prominent gateway at Market and Fulton intersection
- > Establish new housing and supporting uses to active the River
- > Provide new parking for the development and to serve Downtown day-time uses
- Visually extend "Downtown" south along the River

Flood Managment Method

 Land slopes up as beach and amphitheater to FEMA level and trail





FIG A1.16: Proposed Fulton + Market site plan

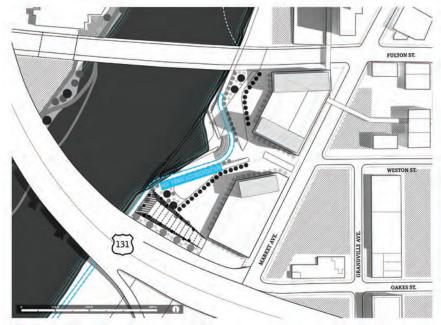


FIG A1.18: Fulton + Market flood considerations

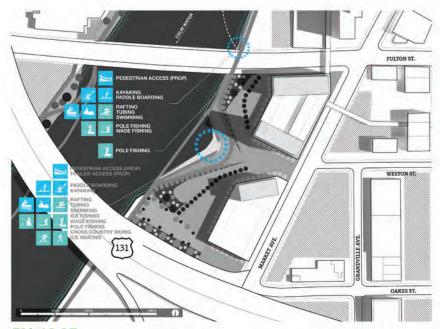


FIG A1.17: Proposed Fulton + Market water access

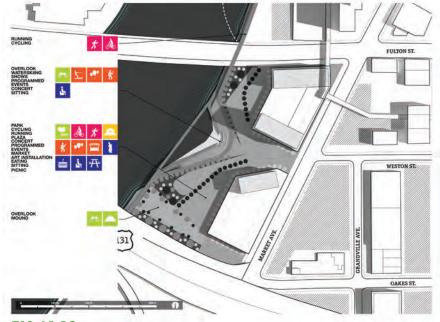
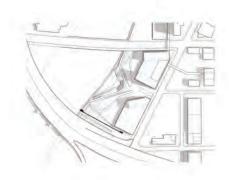


FIG A1.19: Proposed Fulton + Market land program





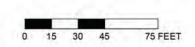


FIG A1.20: Proposed Fulton + Market site sections



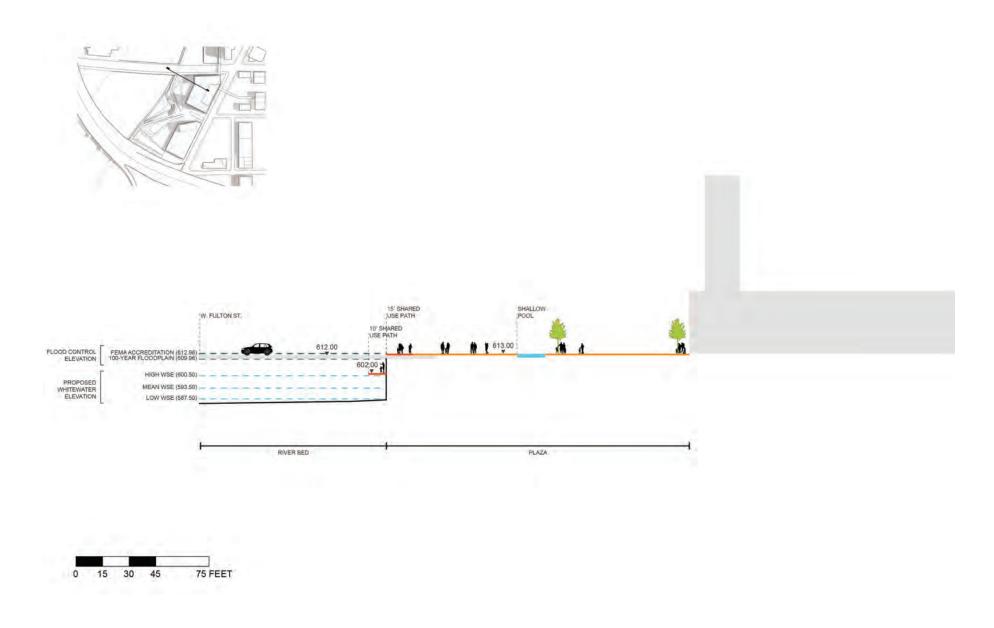
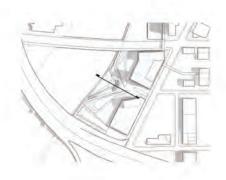
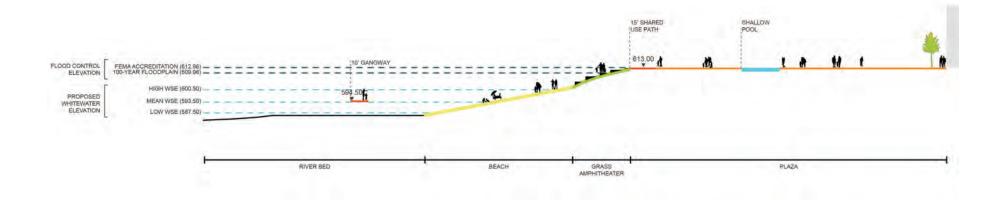


FIG A1.21: Proposed Fulton + Market site sections





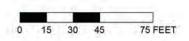


FIG A1.22: Proposed Fulton + Market site sections



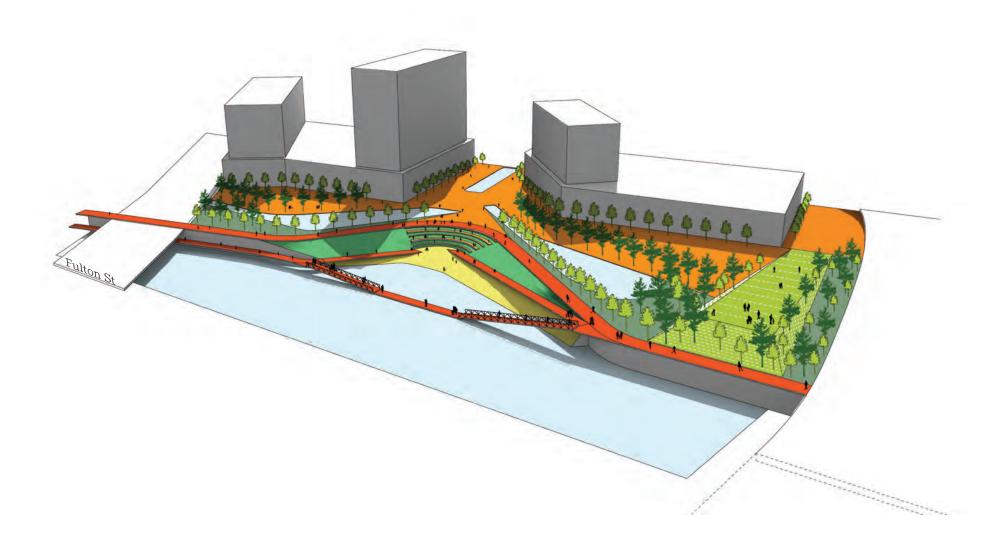


FIG A1.23: Proposed Fulton + Market aerial view



FIG A1.24: Proposed Lyon Square aerial rendering



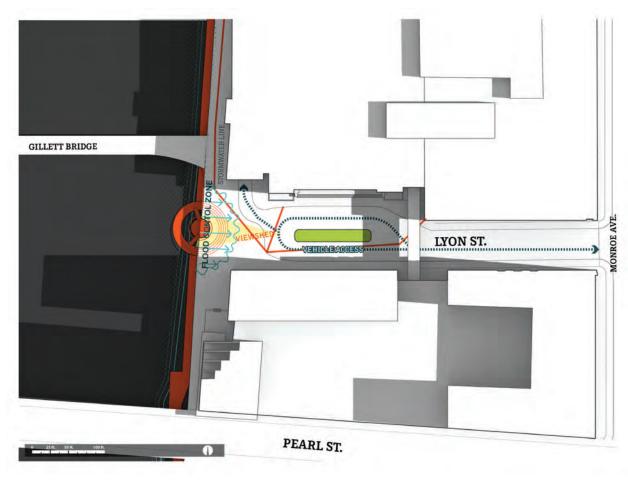


FIG A1.25: Lyon Square Amphitheater opportunities and constraints

>> Lyon Square Amphitheater



> 1 stormwater line, ramp, and loading dock ingress/egress

The goals of Lyon Square Amphitheater are:

- > Create a public/private development opportunity that includes 2600 sqft of events space and 1300 sqft (100 tables) of dining area
- > Manage flooding by raising grade to freeboard deficient, then provide additional flood protection via emergency measures
- > Provide access to the lower river walkway
- > Demonstrate ecological capacity along the River's edge in an urban location
- > Provide a continuous multi-use trail connection and a connection north
- > Create an events plaza in Lyon Square Amphitheater by removing curbs and resurfacing the street, while providing parking flow at non-event times

Flood Managment Method

> Emergency closure point implemented

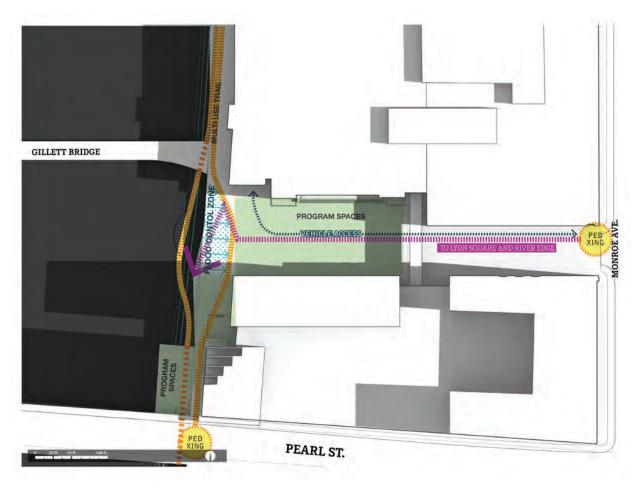


FIG A1.26: Lyon Square Amphitheater concept design



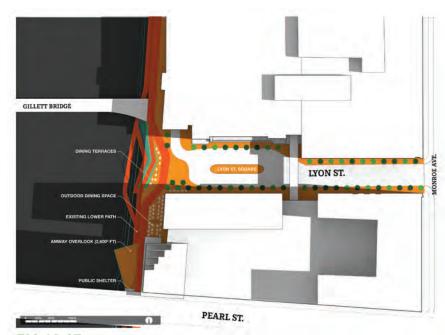


FIG A1.27: Proposed Lyon Square Amphitheater site plan

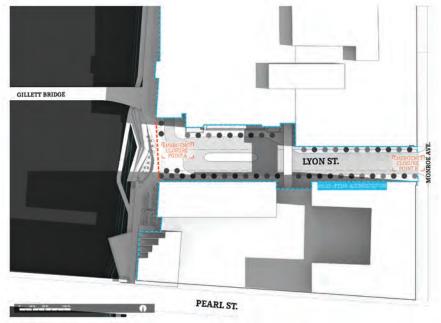


FIG A1.29: Lyon Square Amphitheater flood considerations

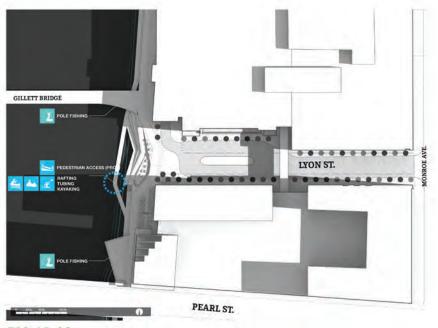


FIG A1.28: Proposed Lyon Square Amphitheater water access

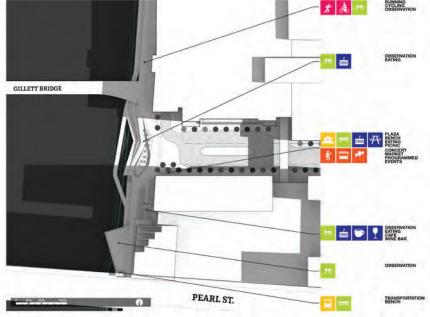


FIG A1.30: Proposed Lyon Square Amphitheater land program

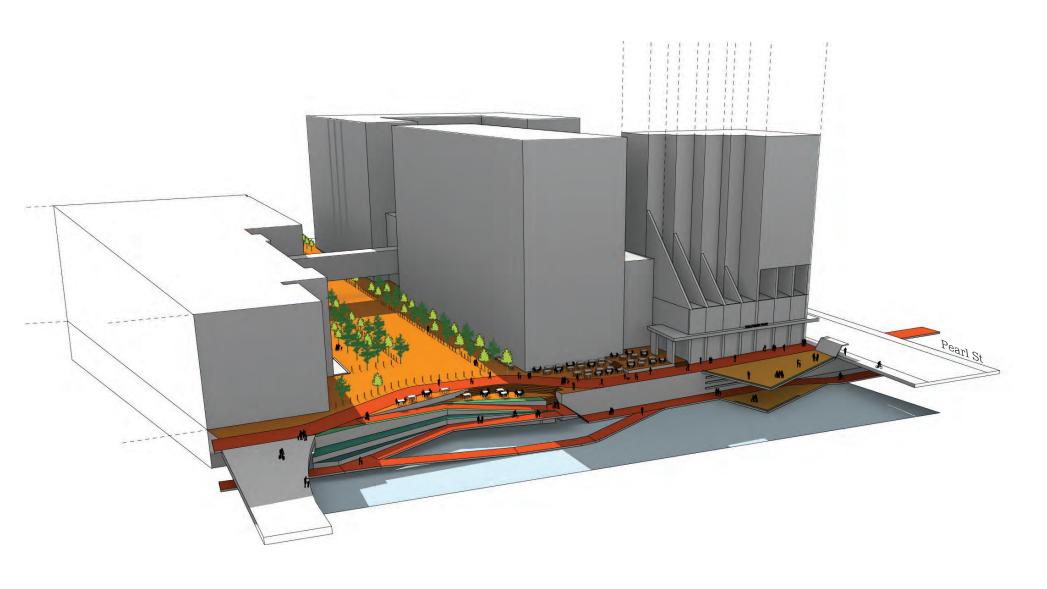
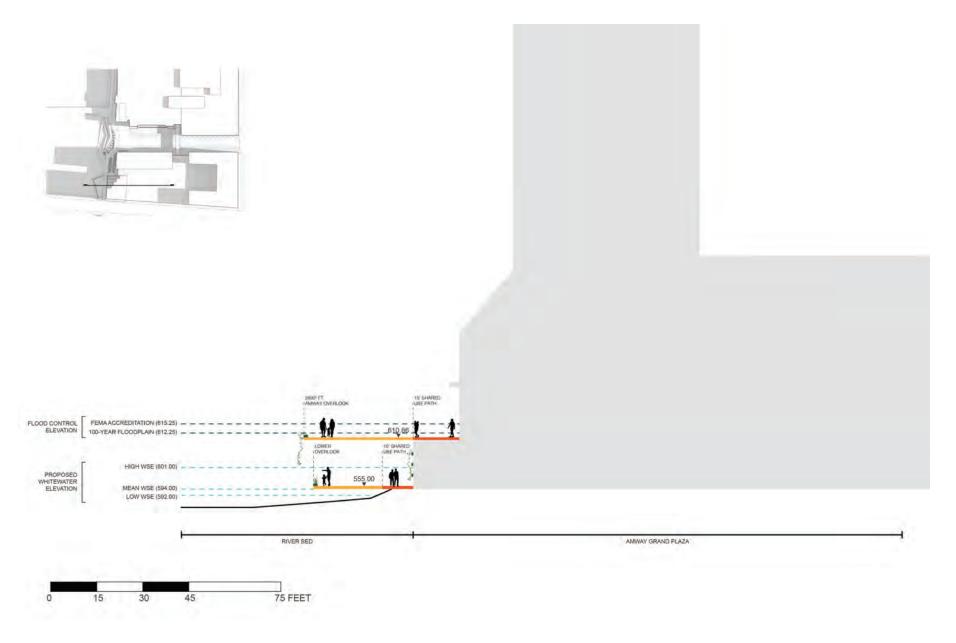
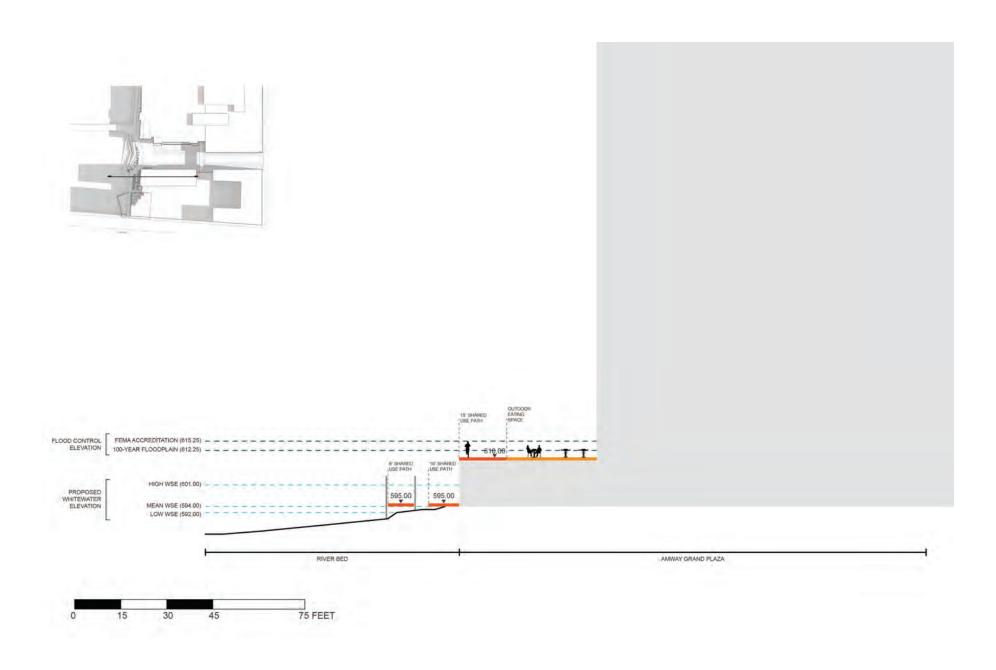


FIG A1.31: Proposed Lyon Square Amphitheater aerial view



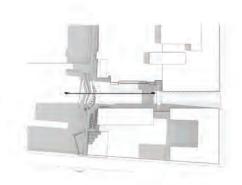


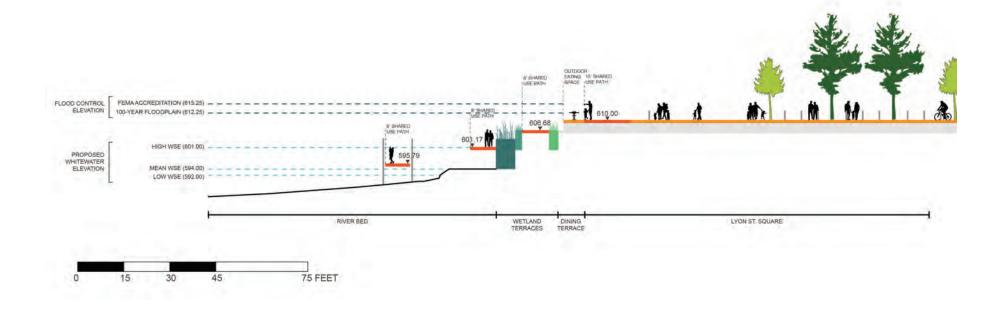
 ${\sf FIG\ A1.32:}\ {\it Proposed\ Lyon\ Square\ Amphitheater\ site\ sections}$



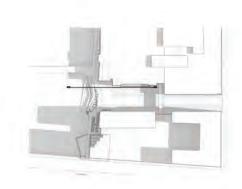
 ${\sf FIG\ A1.33:}\ {\it Proposed\ Lyon\ Square\ Amphitheater\ site\ sections}$

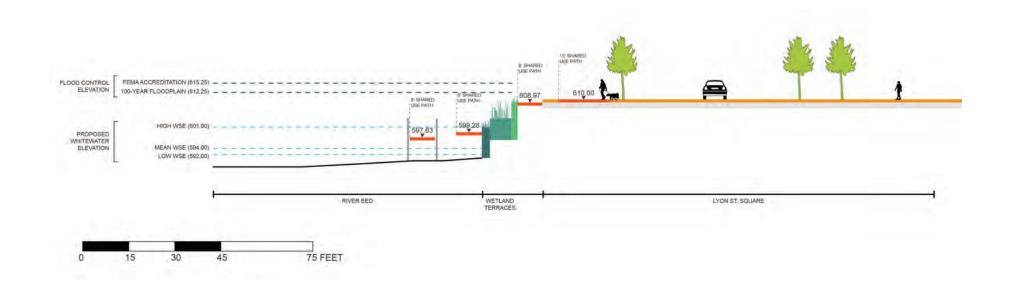






 $FIG~A1.34: {\it Proposed Lyon Square Amphitheater site sections}$





 $FIG~A1.35: {\it Proposed Lyon Square Amphitheater site sections}$



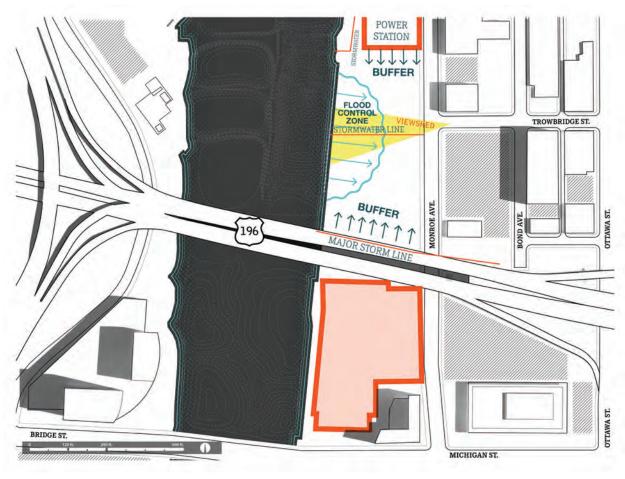


FIG A1.36: MSU/City/KC opportunities and constraints



> 3 stormwater lines, 1 power station, I-196, Post Office building

The goals of MSU / City / KC are:

- > Manage flooding/stormwater through the design of the landscape
- > Create a developable river edge
- > Provide a continuous multi-use trail connection
- > Activate the river with programming
- > Link development and openspace
- > Make a connection from Downtown to Monroe North
- > Create an active edge that creates opportunities to watch river events
- > Provide connection(s) to the river island
- > Allow for public views to the river

Flood Managment Method

> Land slopes up as beach and wetland terraces to FEMA level and trail

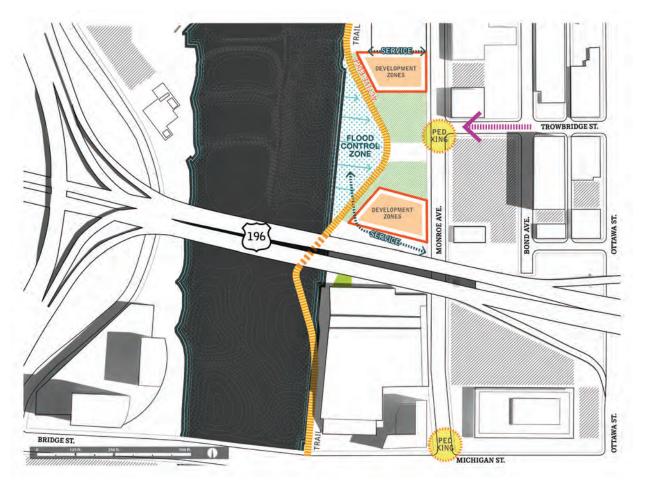


FIG A1.37: MSU / City / KC concept design





FIG A1.38: Proposed MSU / City / KC site plan

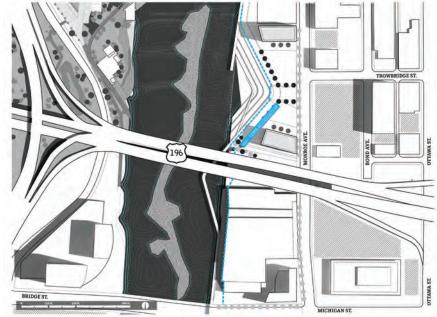


FIG A1.41: MSU / City / KC flood considerations

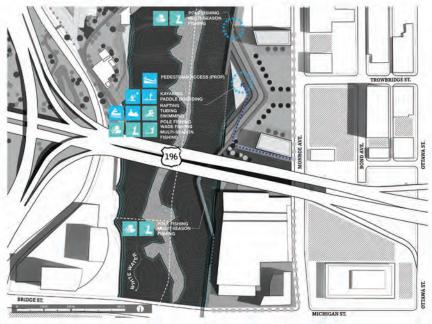


FIG A1.39: Proposed MSU / City / KC water access

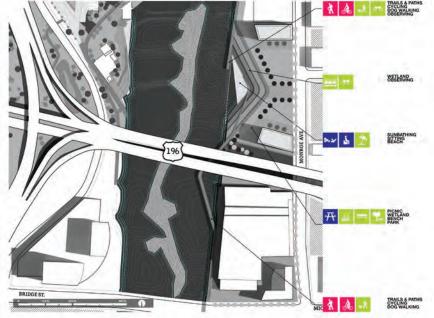


FIG A1.40: Proposed MSU / City / KC land program



FIG A1.42: Proposed MSU / City / KC site plan - Alternate 1



FIG A1.44: Proposed MSU / City / KC site plan - Alternate 3



FIG A1.43: Proposed MSU / City / KC site plan - Alternate 2

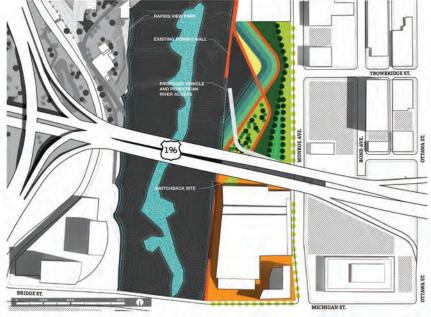


FIG A1.45: Proposed MSU / City / KC site plan - Alternate 4



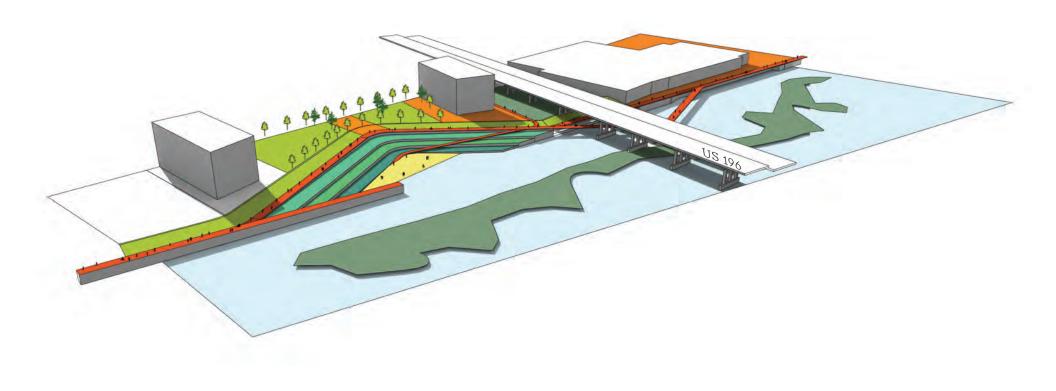


FIG A1.46: Proposed MSU / City / KC aerial view

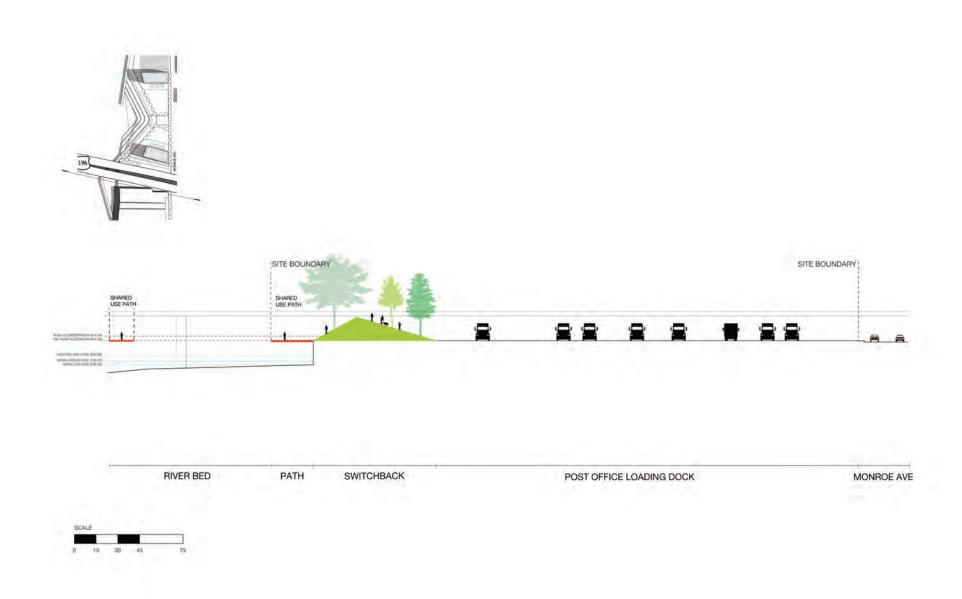


FIG A1.47: Proposed MSU / City / KC aerial site sections



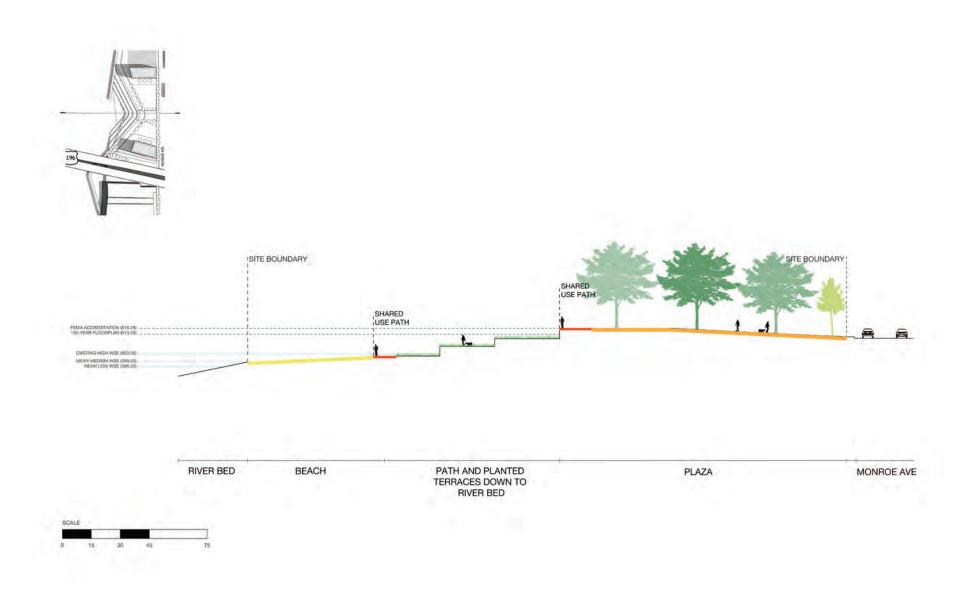


FIG A1.48: Proposed MSU / City / KC aerial site sections

>> 6th Street Park

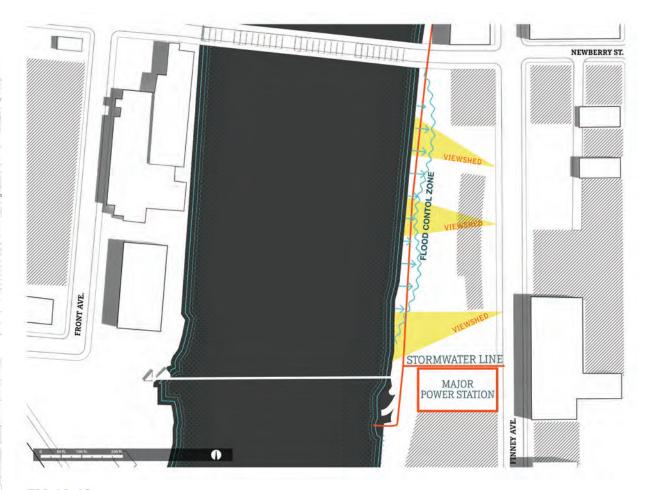


FIG A1.49: 6th Street Park opportunities and constraints



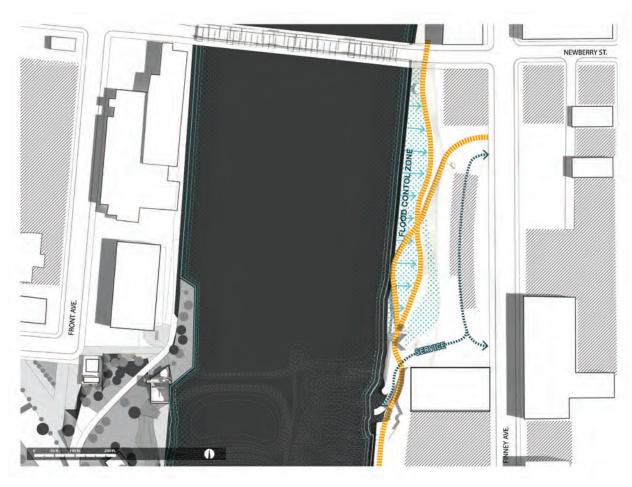


FIG A1.50: 6th Street Park concept design

> Power station

The goals of 6th Street Park are:

- > Manage flooding/stormwater through the design of the landscape
- > Provide/Maintain river access including boat access
- > Provide a continuous multi-use trail connection
- > Activate the River with programming
- > Create habitat and increase opportunities to manage stormwater
- > Renovate and upgrade existing park to blend with river corridor park system
- > Create an active edge that creates opportunities to watch River events
- > Allow for public views to the river

Flood Managment Method

> Existing floodwall and berm

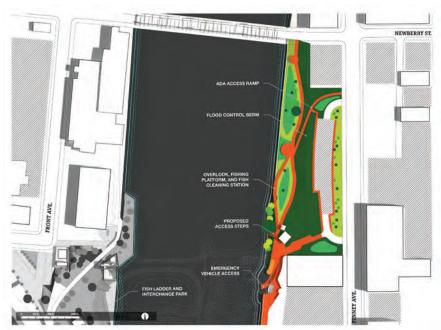


FIG A1.51: Proposed 6th Street Park site plan

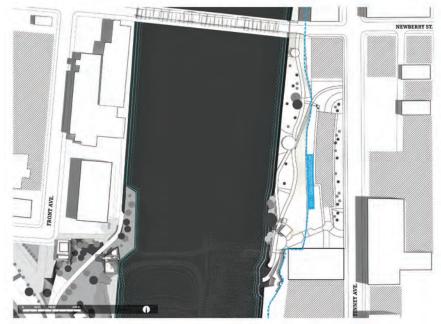


FIG A1.53: 6th Street Park flood considerations

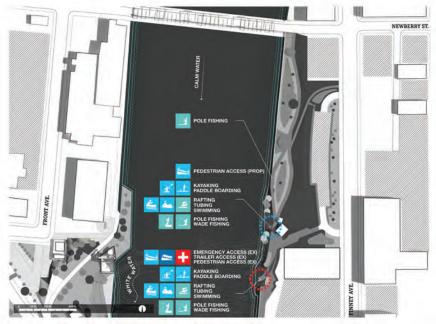


FIG A1.52: Proposed 6th Street Park water access

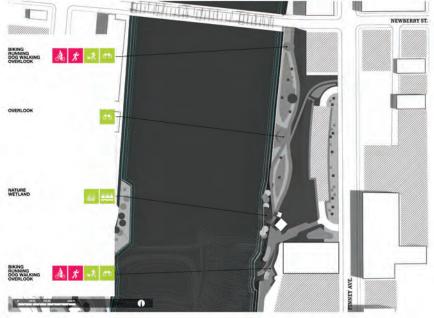


FIG A1.54: Proposed 6th Street Park land program



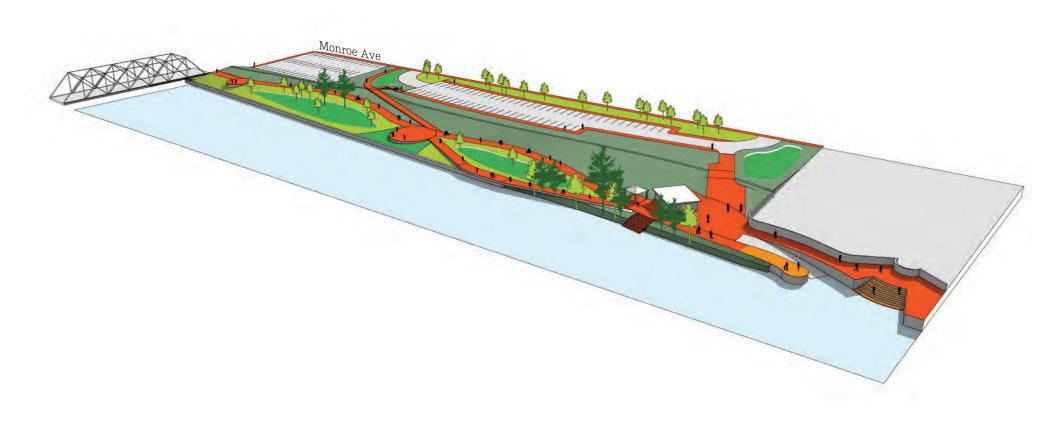
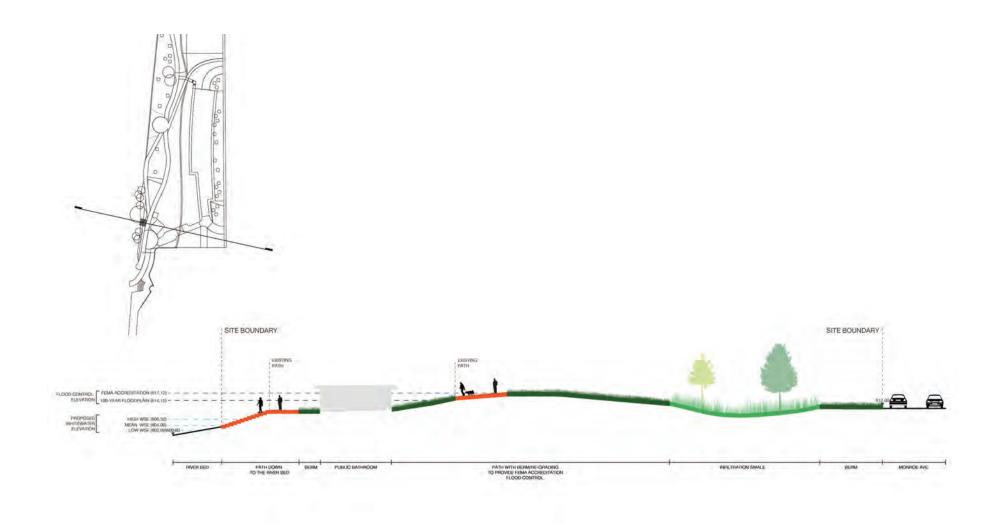


FIG A1.55: Proposed 6th Street Park aerial view



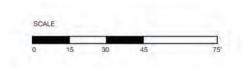
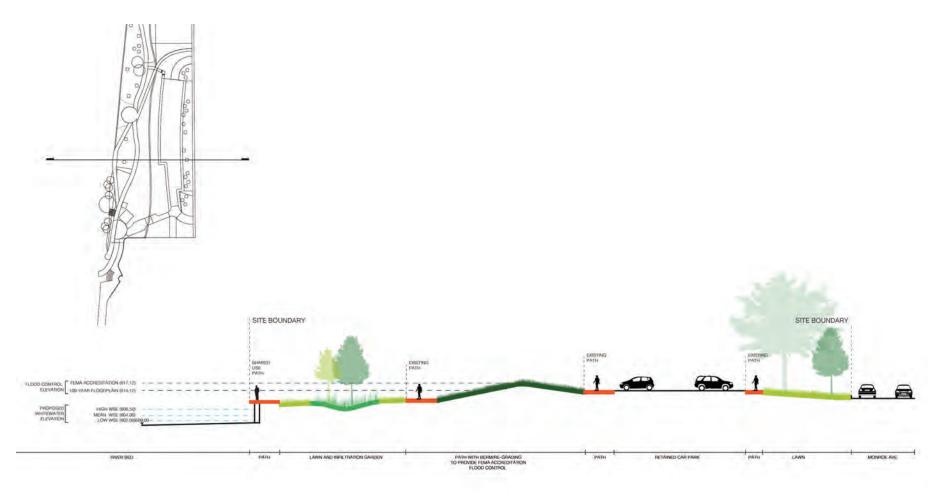


FIG A1.56: Proposed 6th Street Park site sections





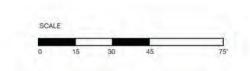


FIG A1.57: Proposed 6th Street Park site sections

>> Canal Street Park



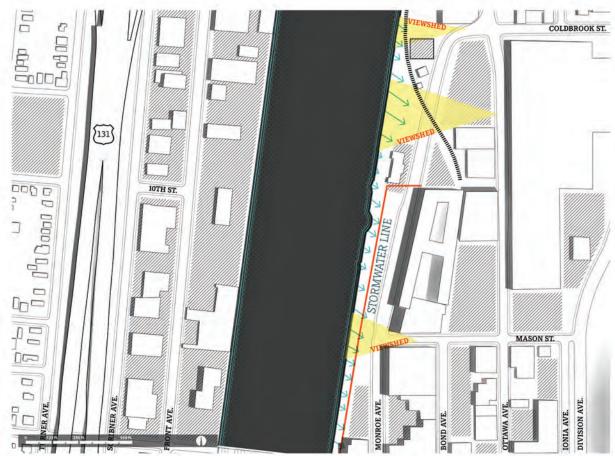


FIG A1.58: Canal Street Park opportunities and constraints



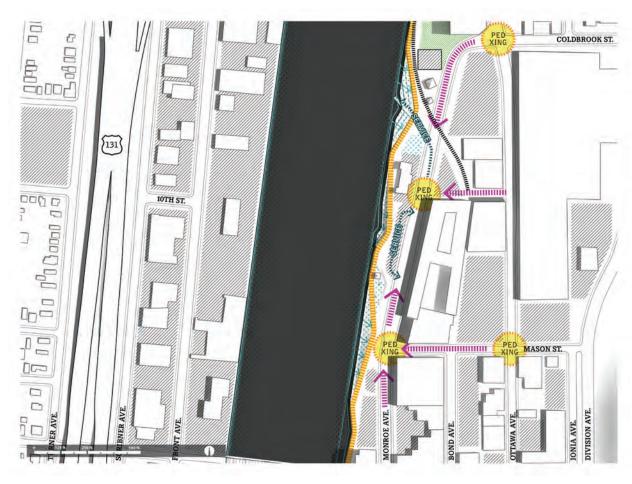


FIG A1.59: Canal Street Park concept design

> 1 stormwater line

The goals of Canal Street Park are:

- > Manage flooding/stormwater through the design of the trail landscape
- > Provide/maintain river access including boat access
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater
- > Renovate and upgrade existing park to blend with river corridor park system
- > Create an active edge that creates opportunities to watch River events
- > Allow for public views and access to the river

Flood Managment Method

> Existing floodwall, wetland terraces, and sloped land to berm and trail

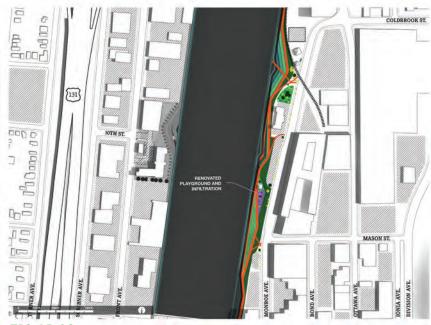


FIG A1.60: Proposed Canal Street Park site plan

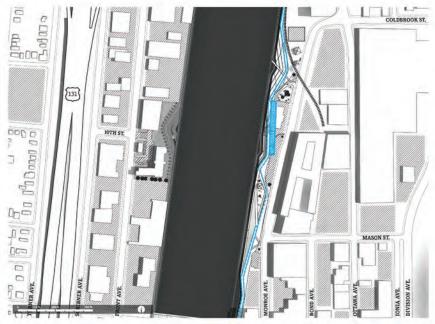


FIG A1.62: Canal Street Park flood considerations

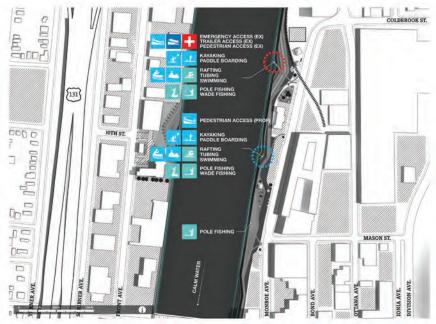


FIG A1.61: Proposed Canal Street Park water access

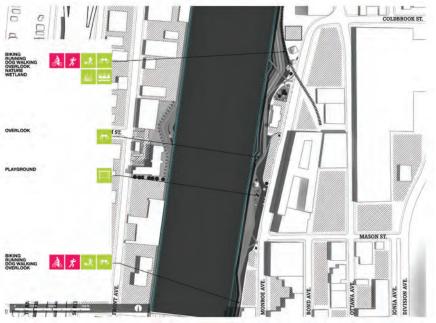


FIG A1.63: Proposed Canal Street Park land program



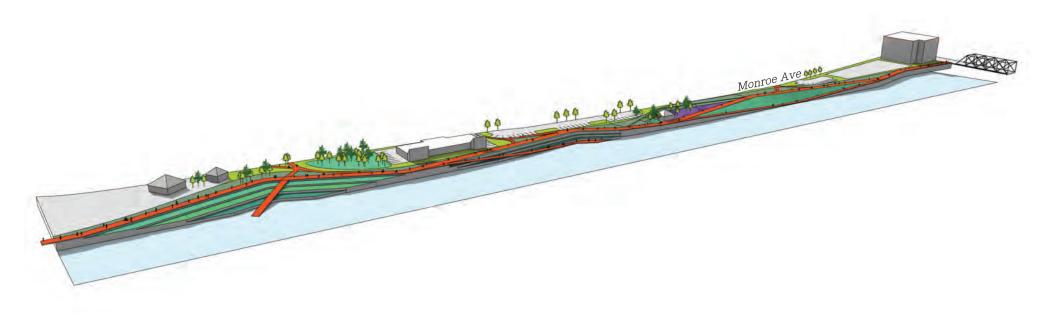


FIG A1.64: Proposed Canal Street Park aerial view

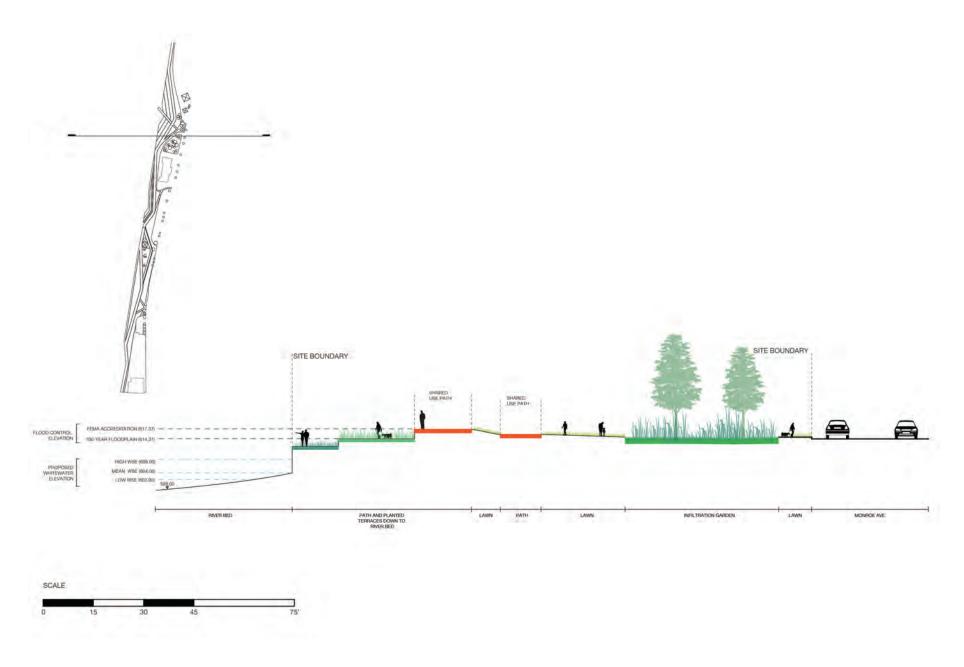


FIG A1.65: Proposed Canal Street site sections



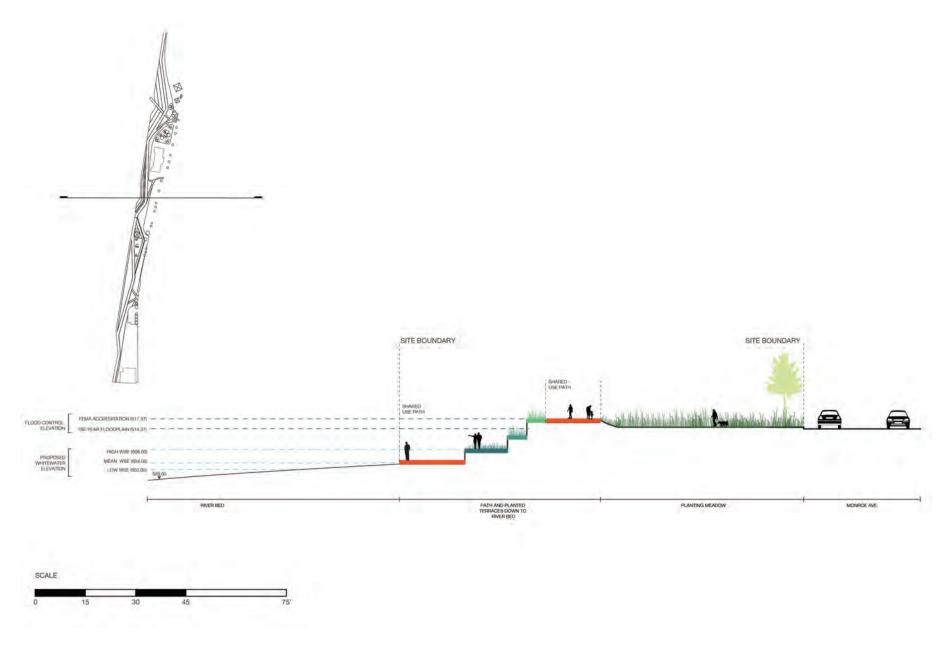


FIG A1.66: Proposed Canal Street site sections

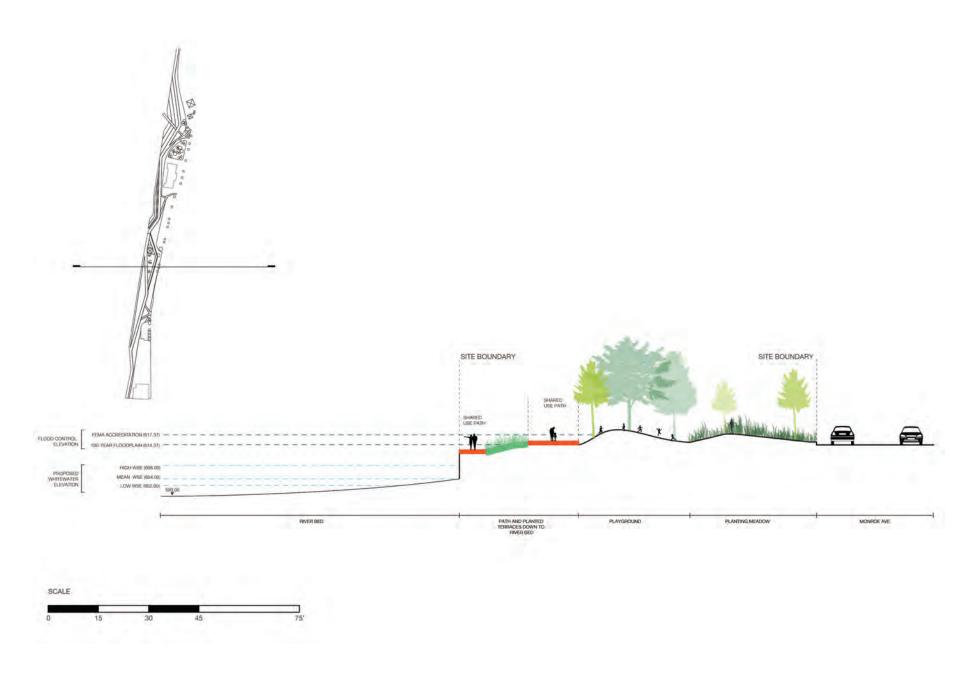


FIG A1.67: Proposed Canal Street site sections



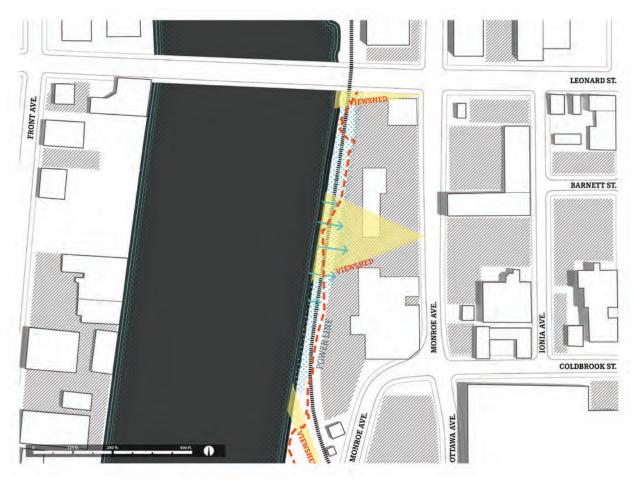


FIG A1.68: Coldbrook opportunities and constraints

>> Coldbrook



> Power lines

The goals of Coldbrook are:

- > Manage flooding/stormwater through the design of the trail landscape
- > Create pedestrian access to The Ledge
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater
- > Create a demonstration of how the trail will look and feel
- > Allow for the future expansion of the site as a development both on site and across the street
- > Create a connection to the exiting trail north of Leonard

Flood Managment Methods:

 existing floodwall, wetland terraces to berm and trail

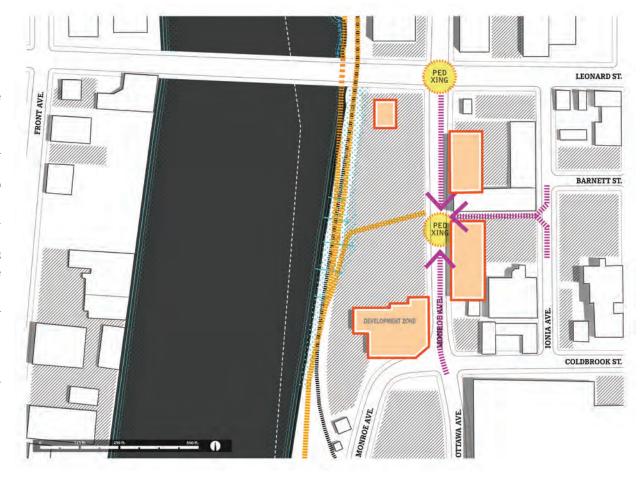


FIG A1.69: Coldbrook concept design





FIG A1.70: Proposed Coldbrook site plan

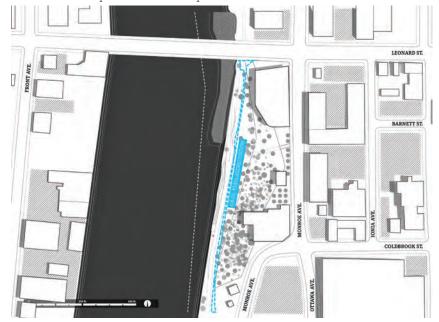


FIG A1.73: Coldbrook flood considerations

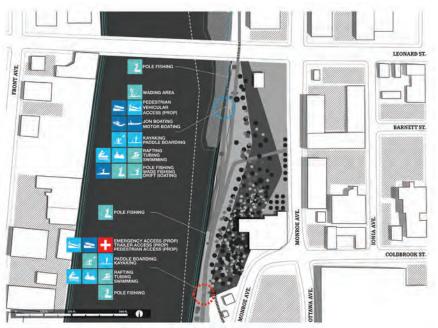


FIG A1.71: Proposed Coldbrook water access

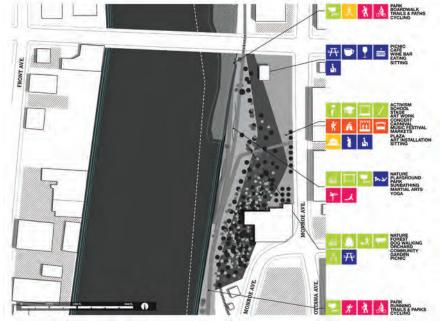


FIG A1.72: Proposed Coldbrook land program

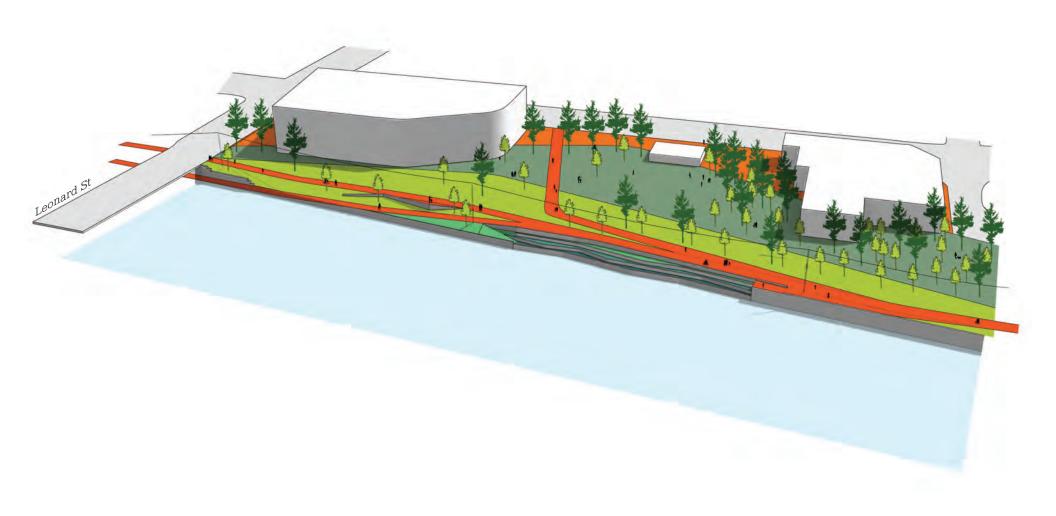


FIG A1.74: Proposed Coldbrook aerial view



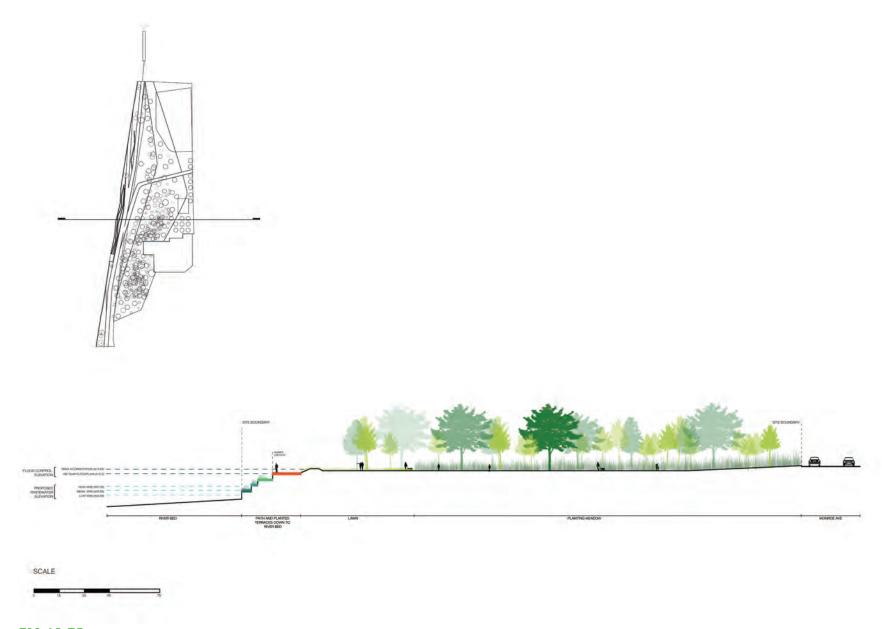


FIG A1.75: Proposed Coldbrook site sections

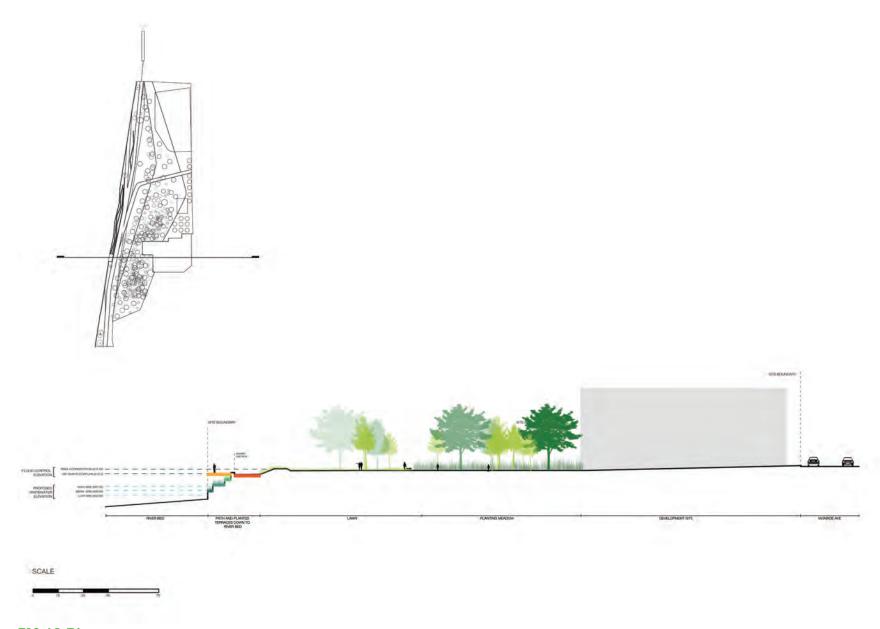


FIG A1.76: Proposed Coldbrook site sections

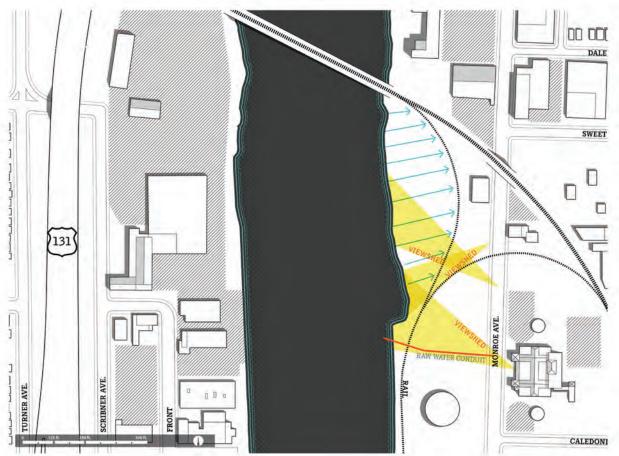




FIG A1.77: Proposed Coldbrook aerial rendering

>> Adventure Park





FIG~A1.78: Adventure Park opportunities and constraints



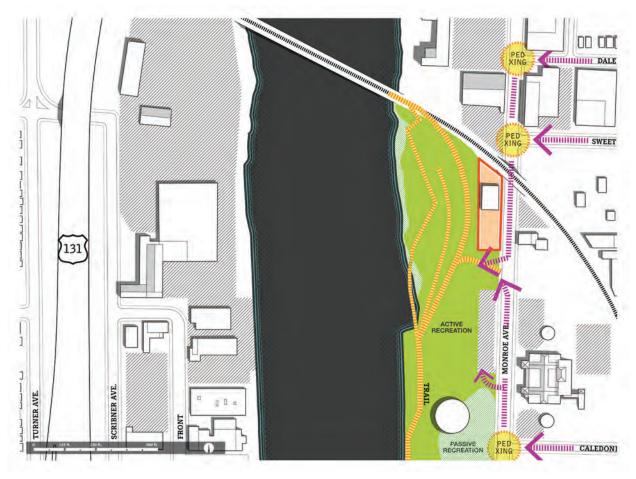


FIG A1.79: Adventure Park concept design

> Raw water conduit

The goals of Adventure Park are:

- Create an adventure landscape that allows for people to experience the ecology while participating in extreme and active program
- > Manage flooding/stormwater through the design of the trail landscape
- > Create pedestrian access to river and provide access to fish bypass and controls for dynamic barrier
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater
- Allow for the expansion of the site as a development both on site and across the street
- Create a connection to the exiting trail north of Leonard

Flood Managment Method

> existing conditions accomplish elevation goals



FIG A1.80: Proposed Adventure Park site plan

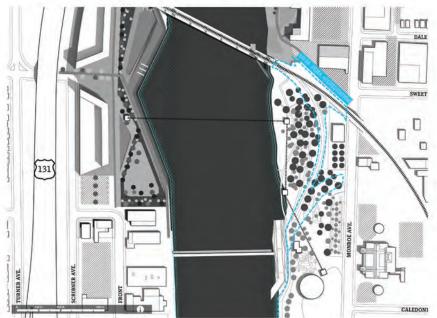


FIG A1.82: Adventure Park flood considerations

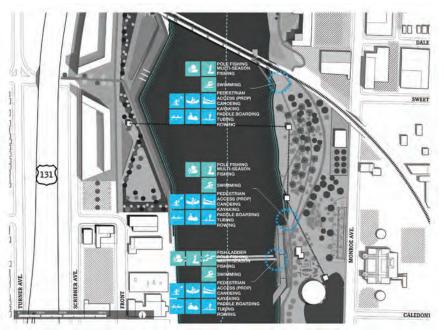


FIG A1.81: Proposed Adventure Park water access

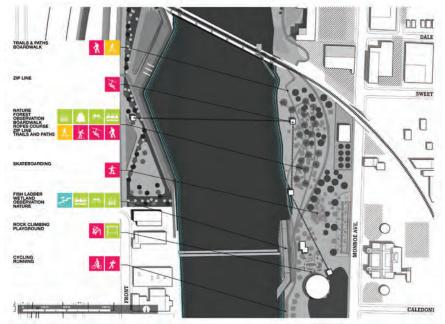


FIG A1.83: Proposed Adventure Park land program



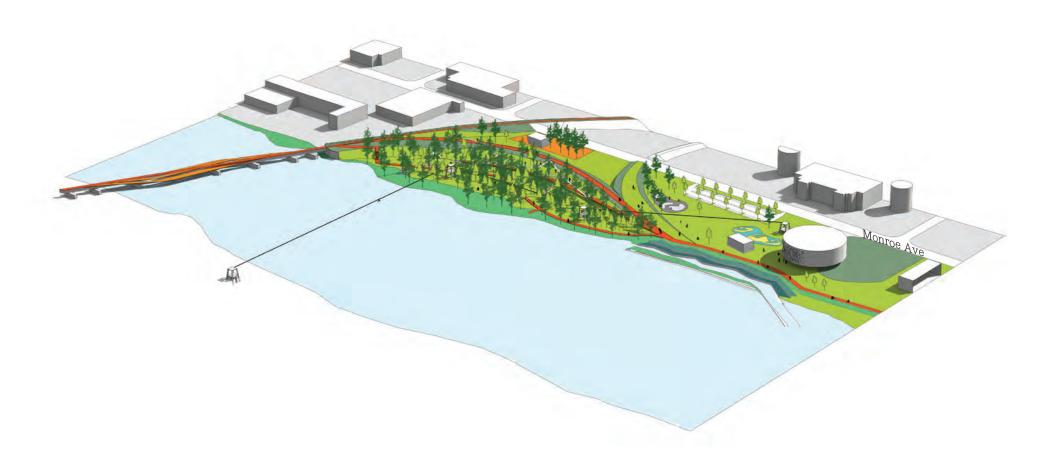


FIG A1.84: Proposed Adventure Park aerial view

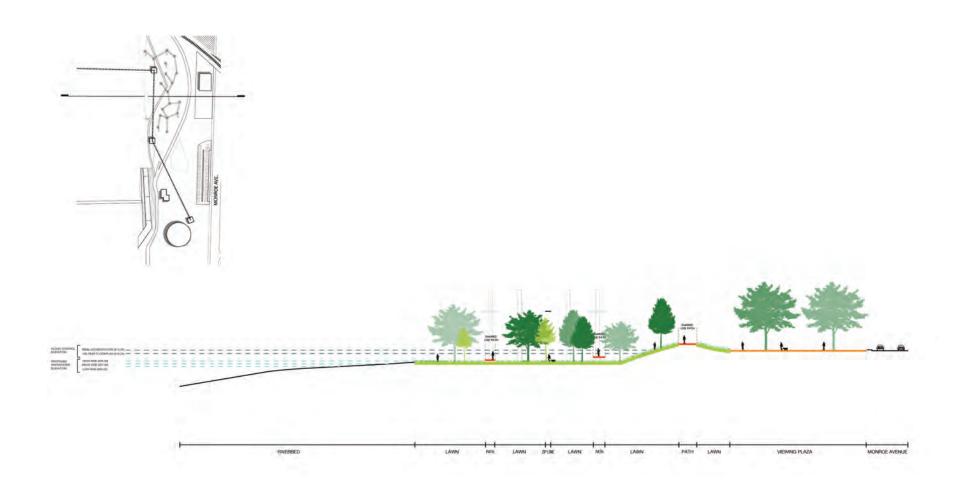




FIG A1.85: Proposed Adventure Park site sections



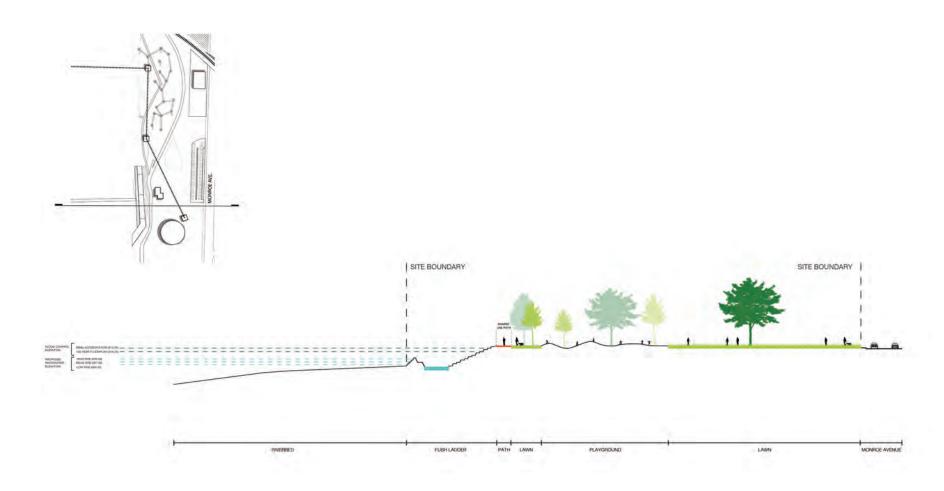




FIG A1.86: Proposed Adventure Park site sections



FIG A1.87: Proposed Adventure Park aerial rendering





FIG A1.88: Baker Furniture opportunities and constraints

>> Baker Furniture



> Stormwater pipe

The goals of Baker Furniture are:

- > Create a public private partnership that increases program opportunities by moving flood infrastructure onto private land
- > Manage flooding/stormwater through the design of the trail landscape
- > Create pedestrian access to river and development
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater

Flood Managment Methods:

- > Wetland terracing
- > Sloped land to FEMA level

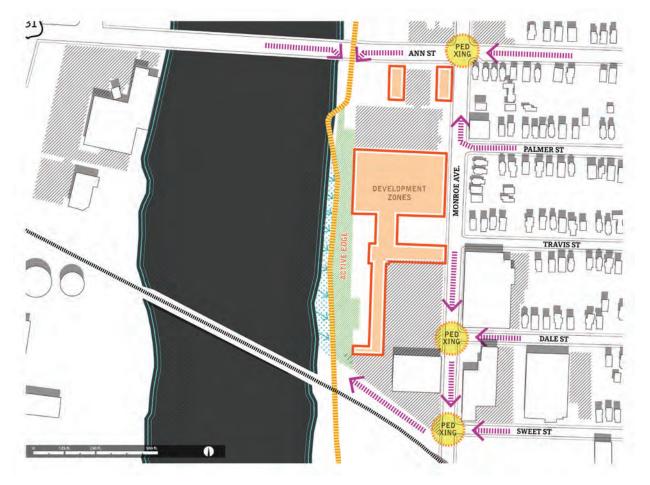


FIG A1.89: Baker Furniture concept design



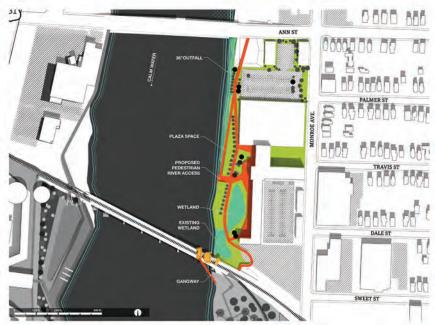


FIG A1.90: Proposed Baker Furniture site plan

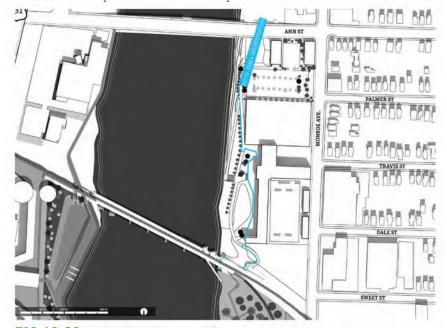


FIG A1.92: Baker Furniture flood considerations

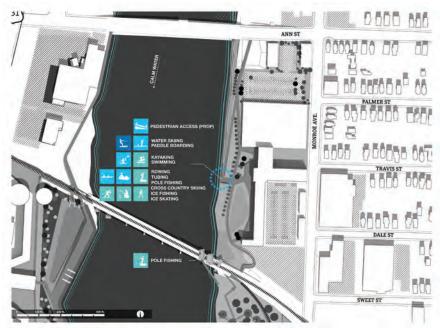


FIG A1.91: Proposed Baker Furniture water access

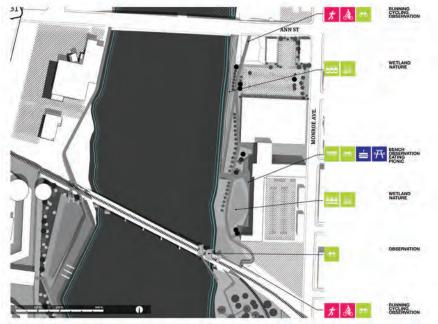


FIG A1.93: Proposed Baker Furniture land program



FIG A1.94: Proposed Baker Furniture aerial view



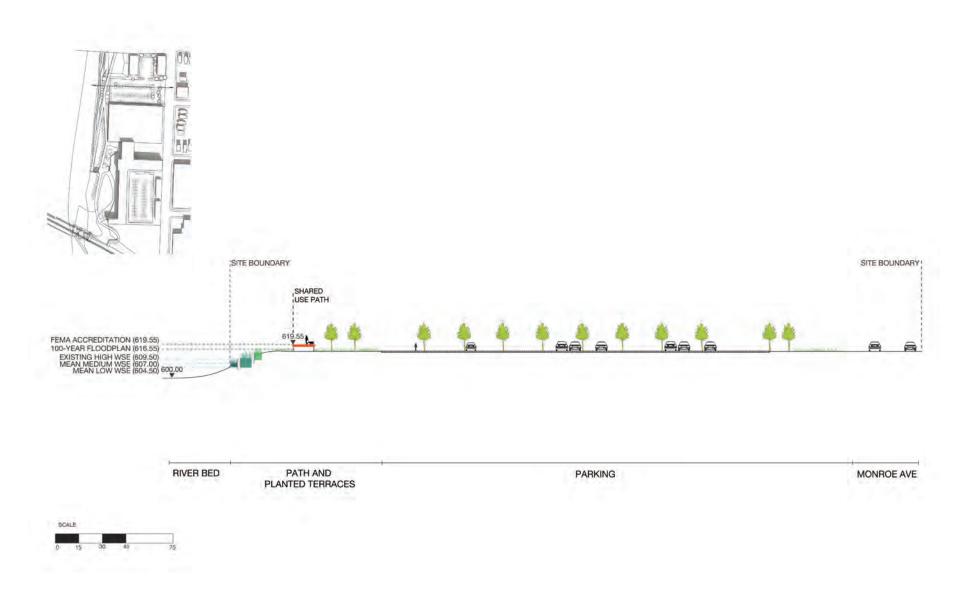


FIG A1.95: Proposed Baker Furniture site sections

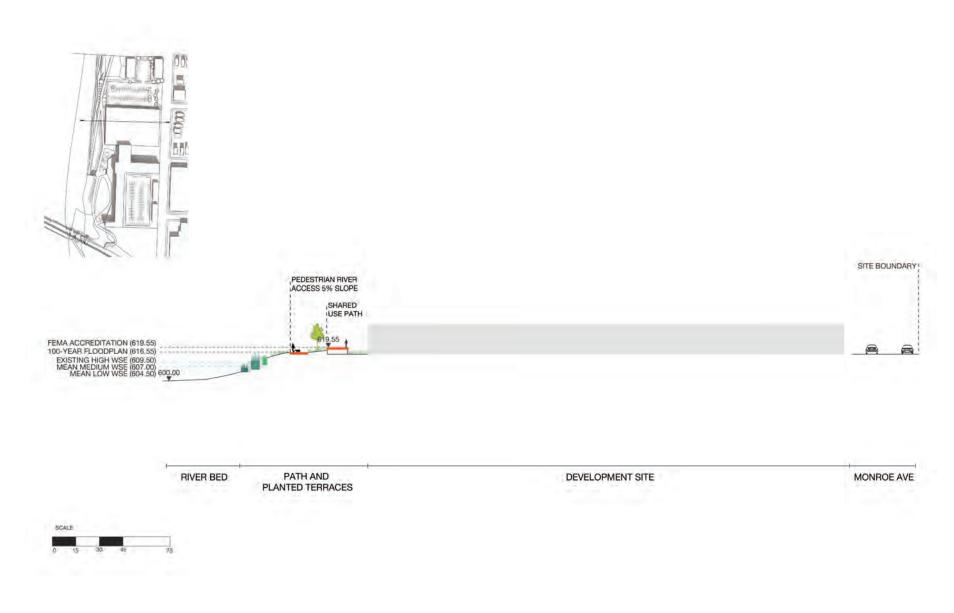


FIG A1.96: Proposed Baker Furniture site sections



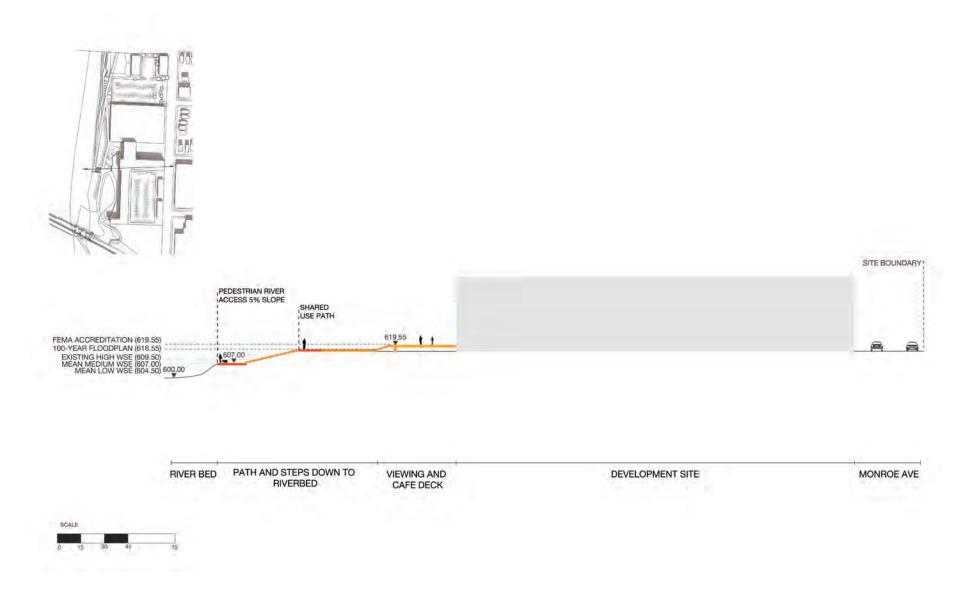


FIG A1.97: Proposed Baker Furniture site sections

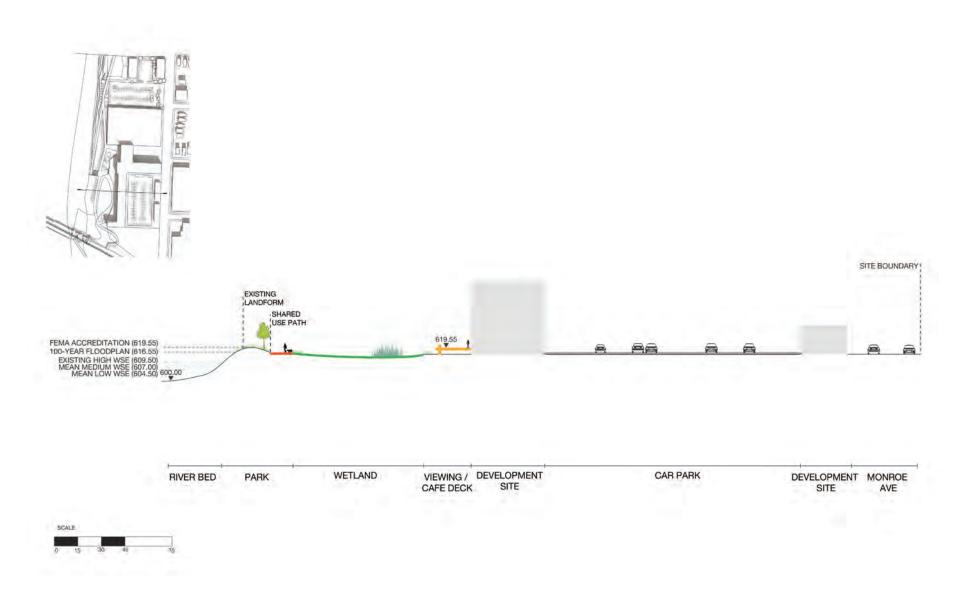


FIG A1.98: Proposed Baker Furniture site sections



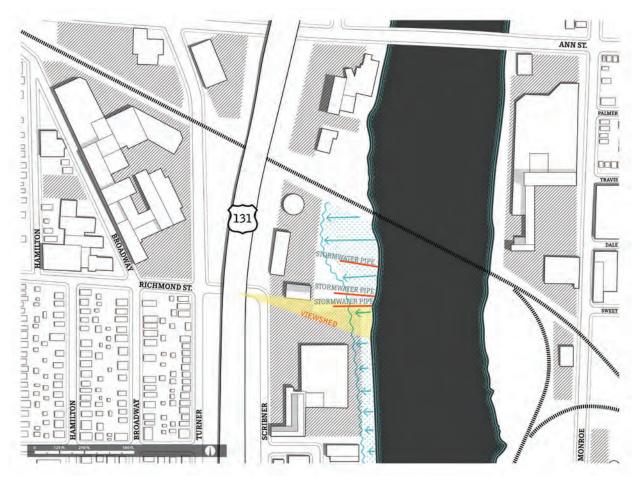


FIG A1.99: KCRC River Edge opportunities and constraints

>> KCRC River Edge



> 3 stormwatwer pipes

The goals of KCRC River Edge are:

- > Manage flooding/stormwater through the design of the trail landscape
- > Create pedestrian access to river and development
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater
- > Create active recreation
- > Create a demonstration project that improves the water quality of the Indian Mill Creek
- > Create opportunities for the development of high loft and office space

Flood Managment Method

> Wetland terracing to FEMA level

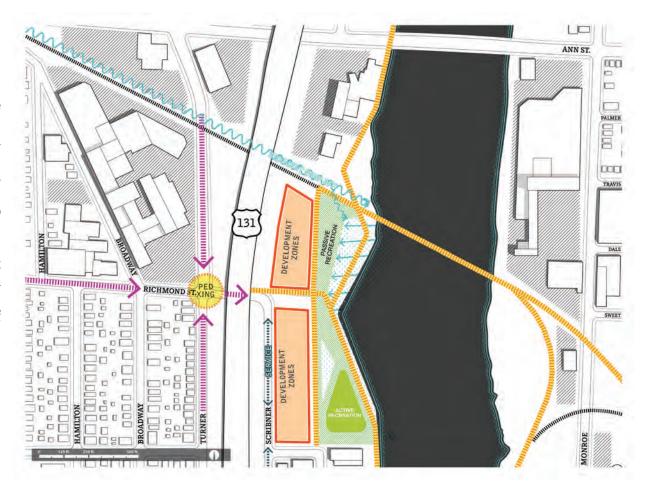


FIG A1.100: KCRC River Edge concept design



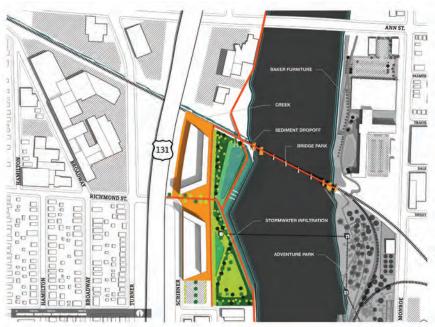


FIG A1.101: Proposed KCRC River Edge site plan

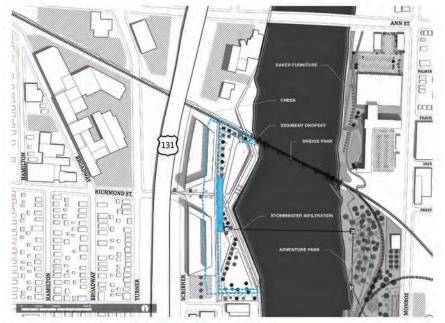
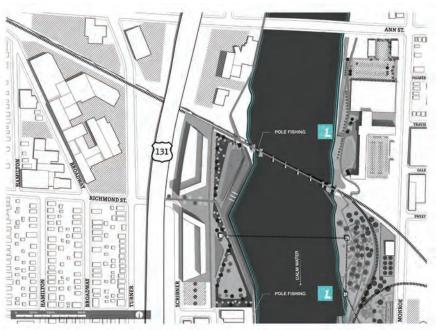


FIG A1.103: KCRC River Edge flood considerations



 $FIG~A1.102: {\it Proposed KCRC River Edge water access}$

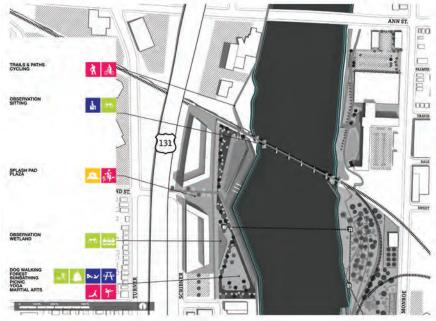


FIG A1.104: Proposed KCRC River Edge land program

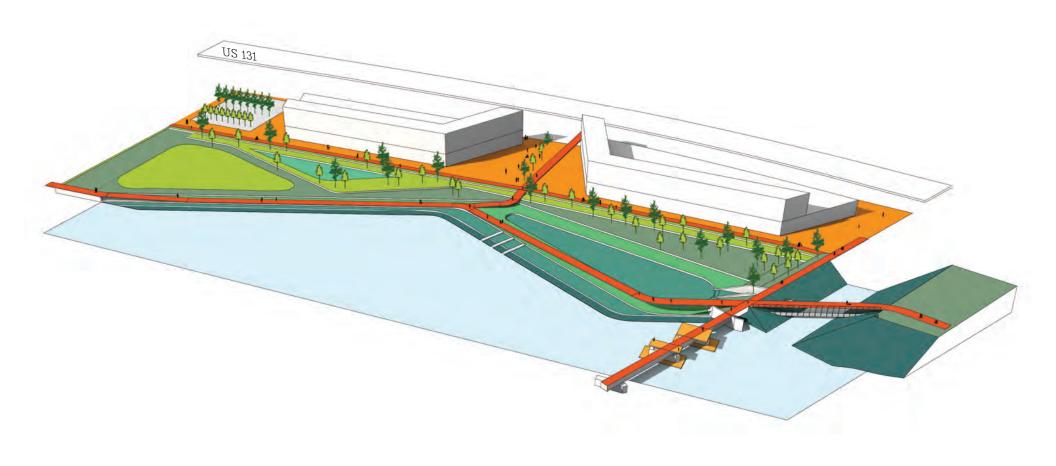


FIG A1.105: Proposed KCRC River Edge aerial view



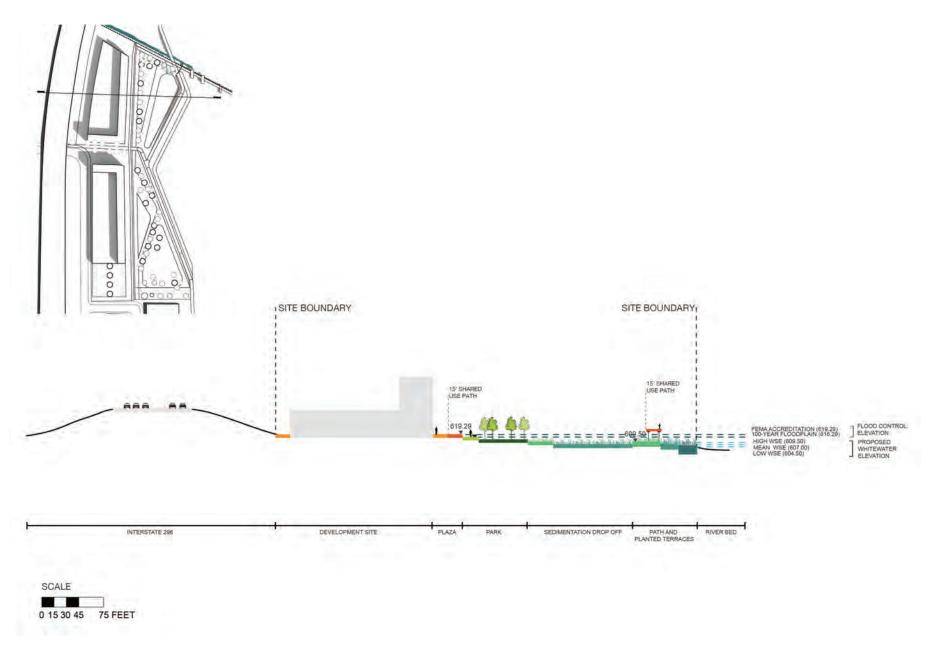


FIG A1.106: Proposed KCRC River Edge site sections

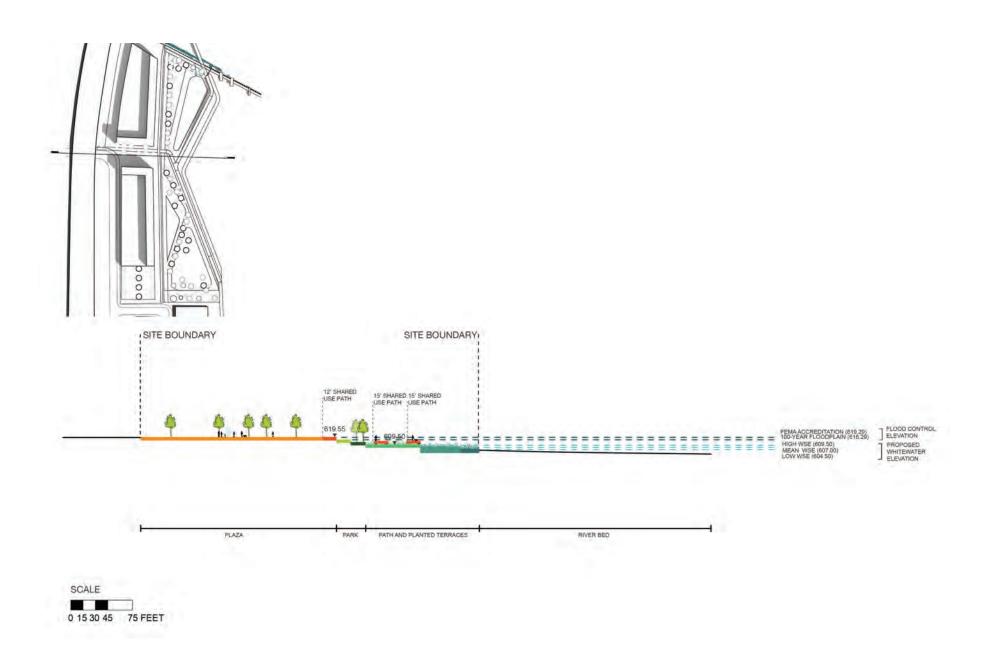


FIG A1.107: Proposed KCRC River Edge site sections



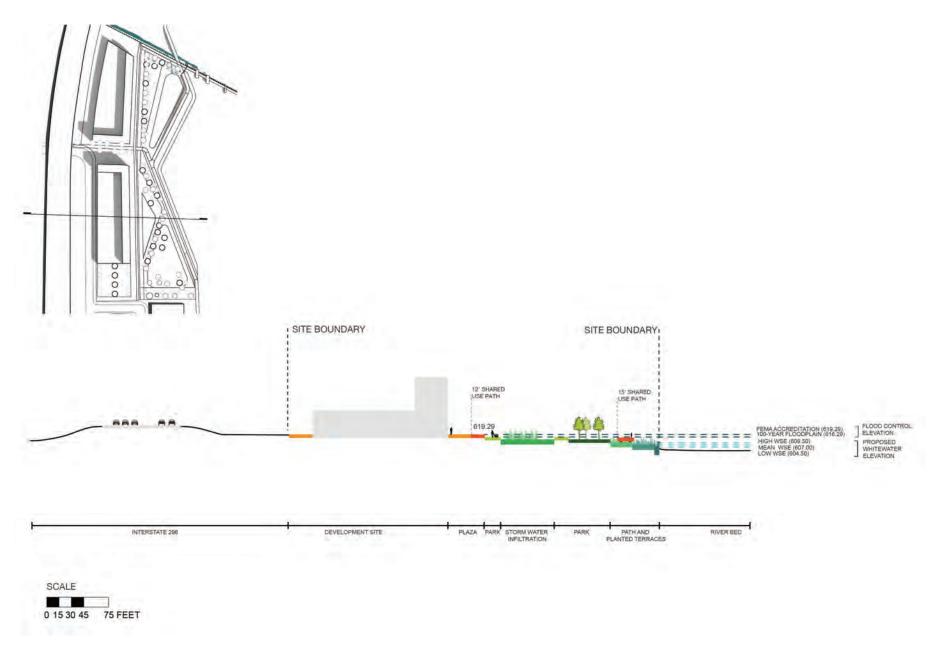


FIG A1.108: Proposed KCRC River Edge site sections



FIG A1.109: Grand View Place opportunities and constraints

>> Grandview Place





> 2 stormwater lines

The goals of Grand View Place are:

- > Create a public private partnership that increases program opportunities by moving flood infrastructure onto private land allowing for more program space
- > Manage flooding/stormwater through the design of the trail landscape
- > Create pedestrian access to river and development
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater

Flood Managment Method

- > Existing floodwall
- > Wetland terracing to FEMA level



FIG A1.110: Grand View Place concept design



FIG A1.111: Proposed Grandview Place site plan

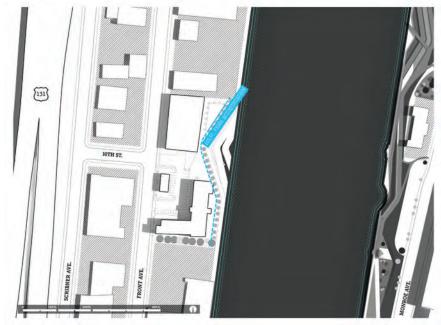
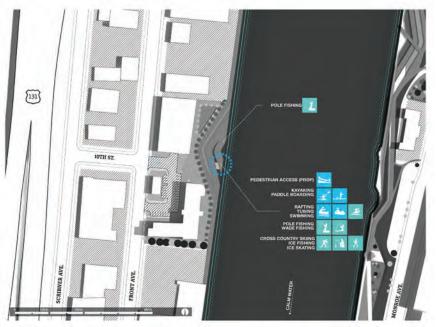


FIG A1.113: Grandview Place flood considerations



 ${\sf FIG\ A1.112:}\ {\it Proposed\ Grandview\ Place\ water\ access}$

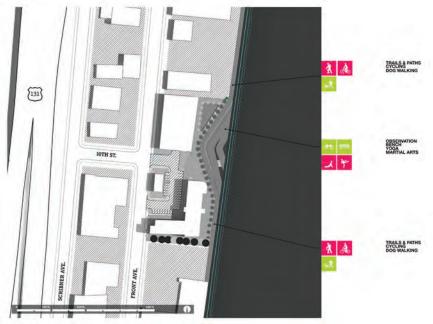
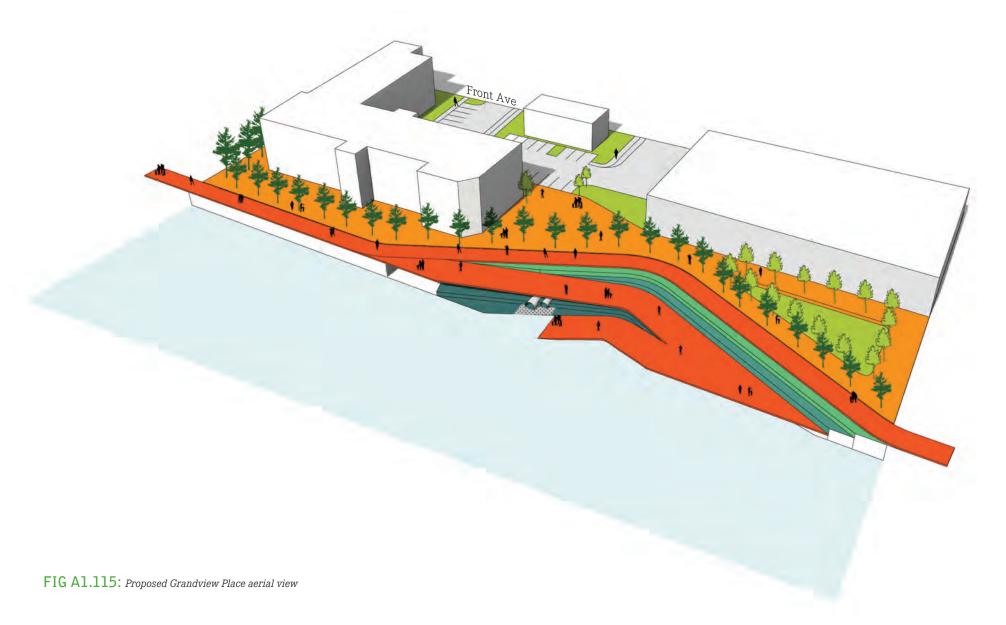


FIG A1.114: Proposed Grandview Place land program





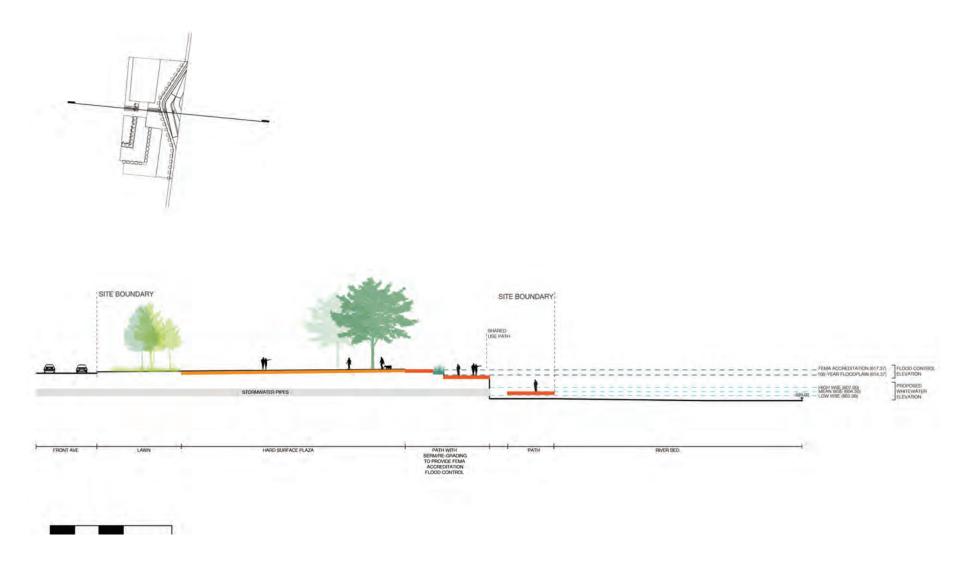
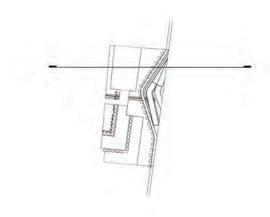


FIG A1.116: Proposed Grandview Place site sections





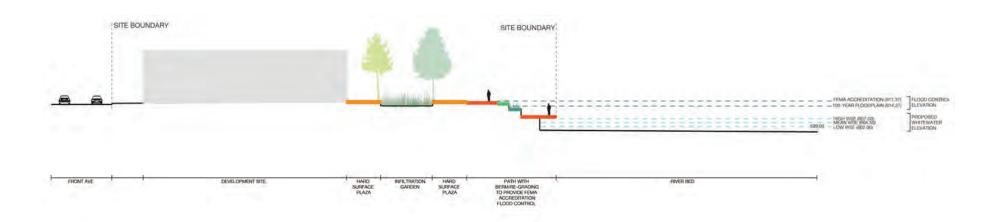


FIG A1.117: Proposed Grandview Place site sections

>> Rapids View and Interchange Park

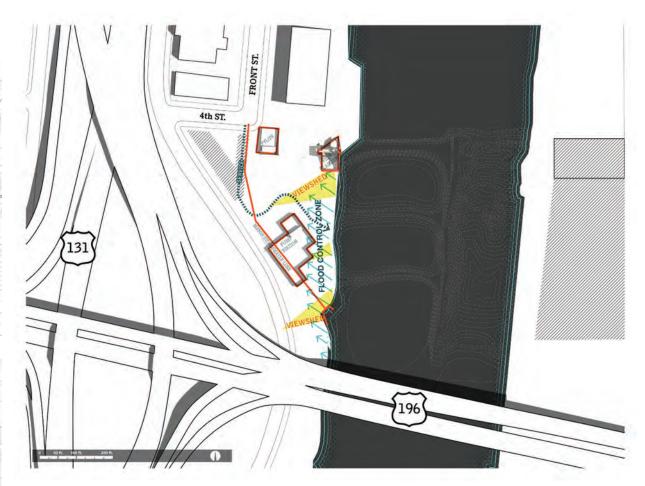


FIG A1.118: Rapids View and Interchange Park opportunities and constraints





FIG A1.119: Rapids View and Interchange Park concept design

> stormwater line through pump station

The goals of Rapids View and Interchange Park are:

- > Create a public space in the River for the general public to experience the River and activities
- > Allow for viewing of the most exciting part of the rapids
- > Create pedestrian access to River
- > Provide a continuous multi-use trail connection
- > Create a link to the interchange Park
- > Create a large scale demonstration of stormwater technology
- > Create gateways to the City that celebrates water

Flood Managment Methods:

- > Beach
- > Amphitheater terracing to FEMA level



FIG A1.120: Proposed Rapids View and Interchange Park site plan

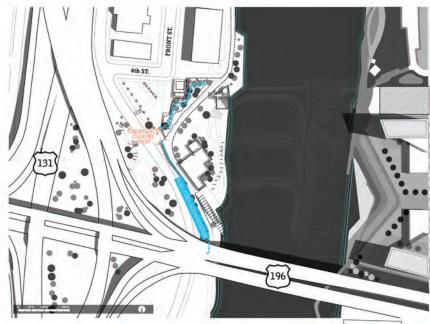


FIG A1.122: Rapids View and Interchange Park flood considerations

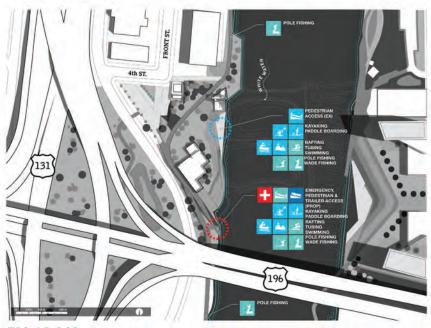


FIG A1.121: Proposed Rapids View and Interchange Park water access



 $FIG~A1.123: {\it Proposed Rapids View and Interchange Park land program}$





FIG A1.124: Proposed Rapids View and Interchange Park aerial view

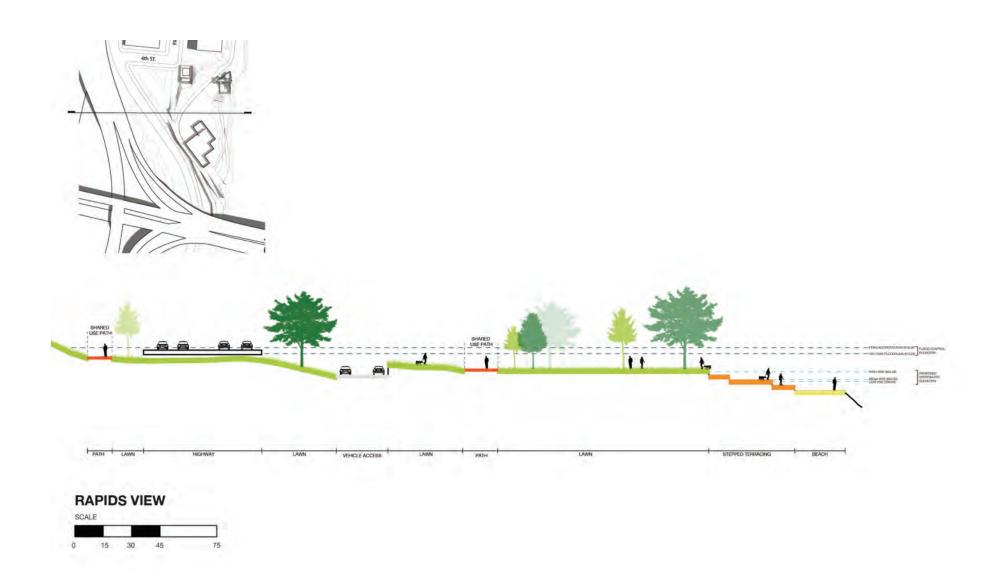


FIG A1.125: Proposed Rapids View and Interchange site sections





FIG A1.126: Proposed Rapids View and Interchange site sections



FIG A1.127: Proposed Rapids View and Interchange Park aerial rendering



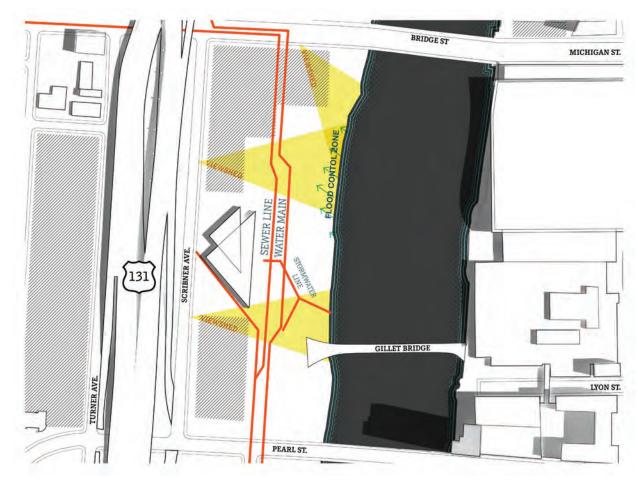


FIG A1.128: Ah Nab Awen Park opportunities and constraints

>> Ah Nab Awen Park



> sewer line, water main, stormwater line

The goals of Ah Nab-Awen Park are:

- > Manage flooding/stormwater through the design of the trail landscape
- > Maintain existing program opportunities
- > Provide a continuous multi-use trail connection
- > Create habitat and increase opportunities to manage stormwater
- > Maintain character and increase access to the river

Flood Managment Method

> Berm at Pearl St. and green wall along Scribner Ave.

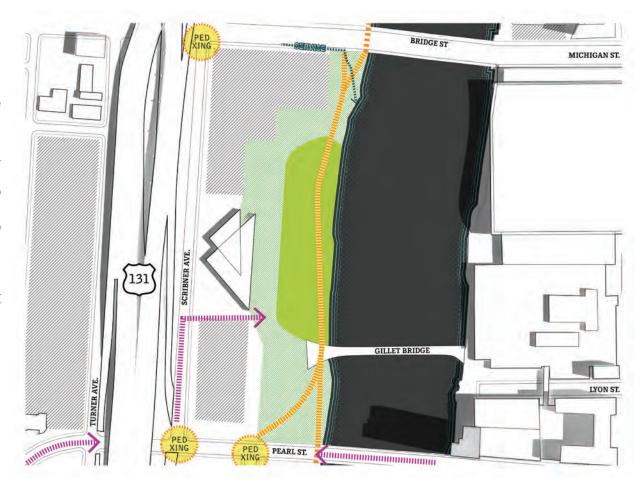


FIG A1.129: Ah Nab Awen Park concept design





FIG A1.130: Proposed Ah Nab Awen Park site plan



FIG A1.132: Ah Nab Awen Park flood considerations

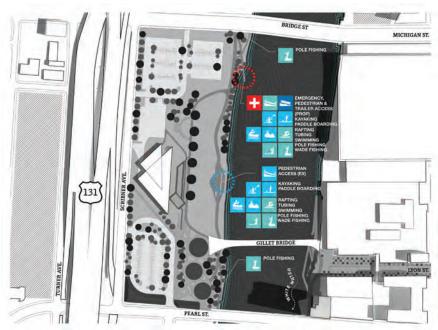


FIG A1.131: Proposed Ah Nab Awen Park water access

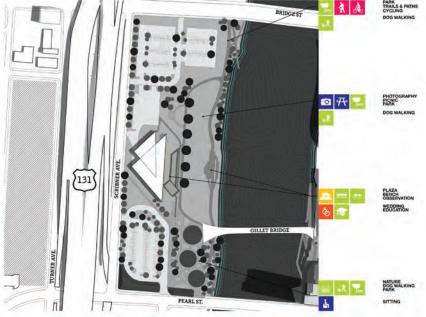


FIG A1.133: Proposed Ah Nab Awen Park land program

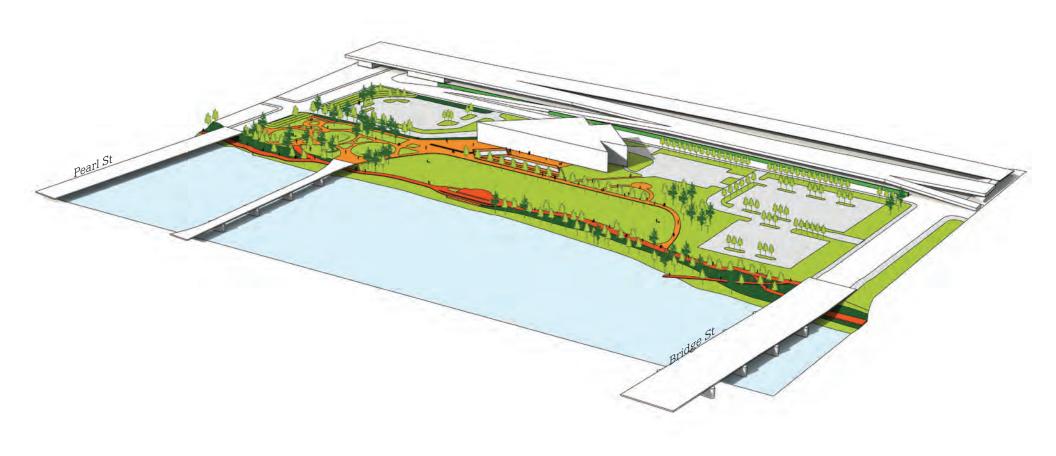
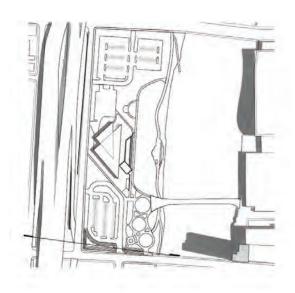


FIG A1.134: Proposed Ah Nab Awen Park aerial view





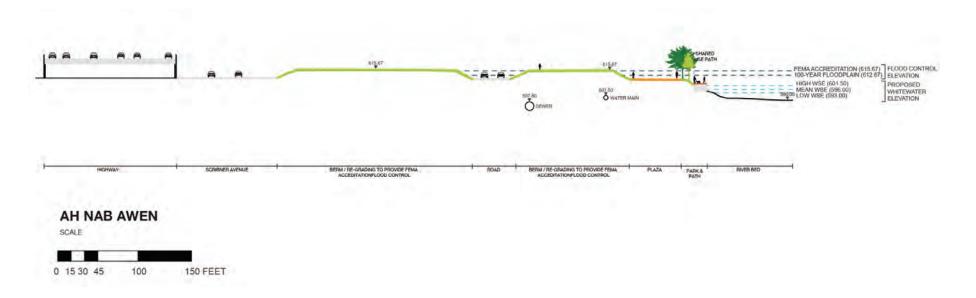
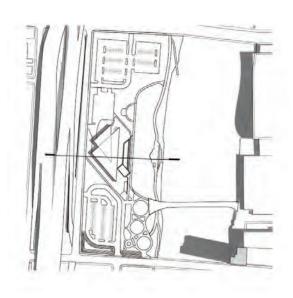


FIG A1.135: Proposed Ah Nab Awen Park site sections



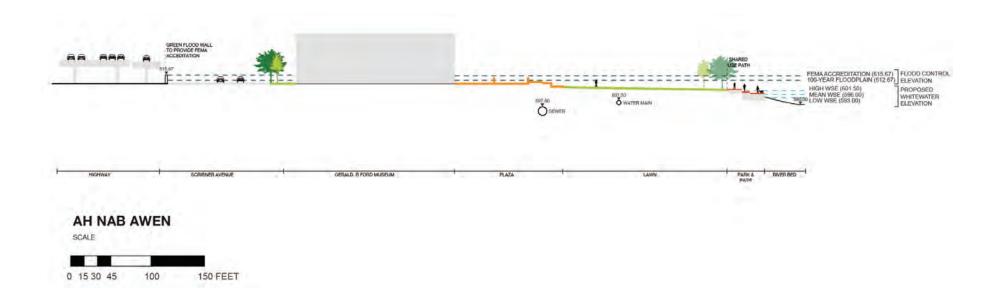


FIG A1.136: Proposed Ah Nab Awen Park site sections



>> Public Museum





 ${\sf FIG\ A1.137:}\ {\it Public\ Museum\ opportunities\ and\ constraints}$

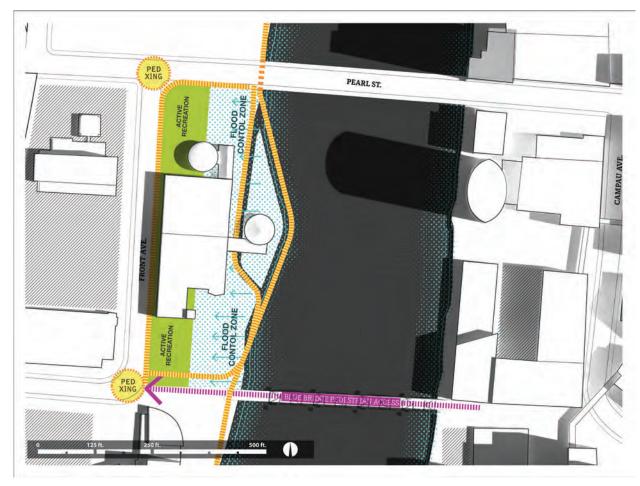


FIG A1.138: Public Museum concept design

> 3 stormwater lines

The goals of Public Museum are:

- > Create a world class exhibit about the Grand River that expands opportunities for the museum to grow in its mission to support a healthy river
- > Expand public opens pace access on the Westside
- > Create access to the river
- > Create pedestrian access to river provide a continuous multi-use trail
- > Create habitat and allow for a unique river experience in the city

Flood Managment Method

> Wetland terracing to sloped lawn to FEMA level





FIG A1.139: Proposed Public Museum site plan



FIG A1.141: Public Museum flood considerations

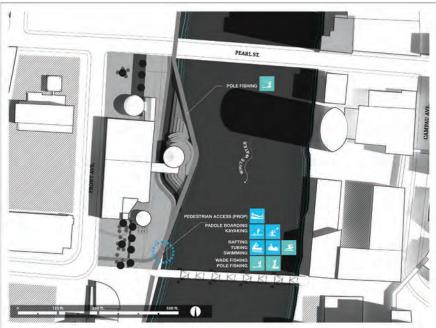


FIG A1.140: Proposed Public Museum water access



FIG A1.142: Proposed Public Museum land program

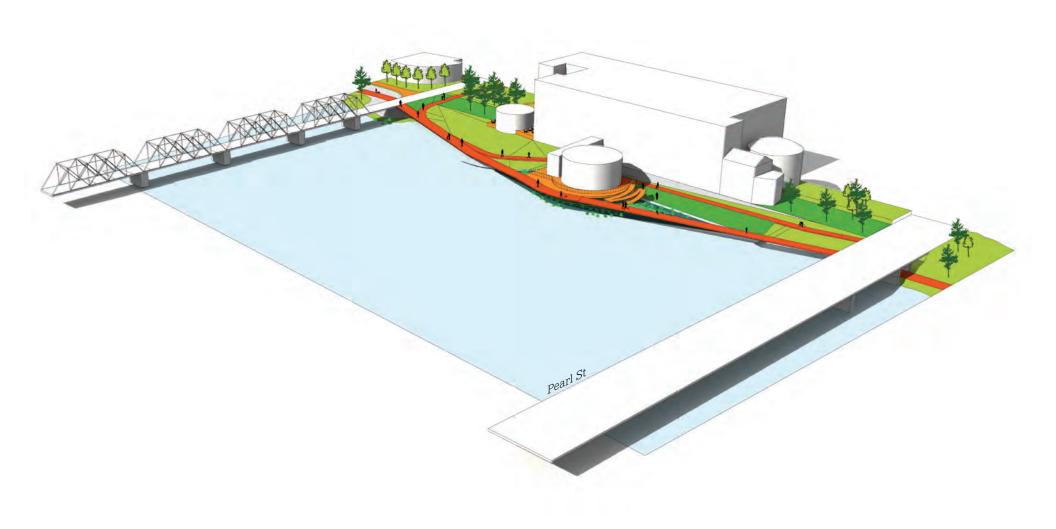


FIG A1.143: Proposed Public Museum aerial view



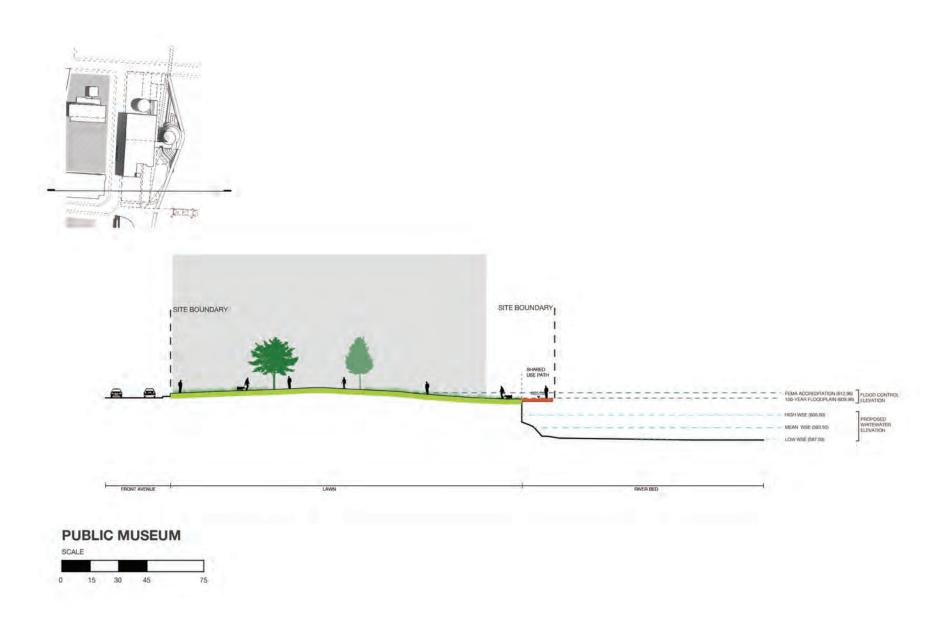
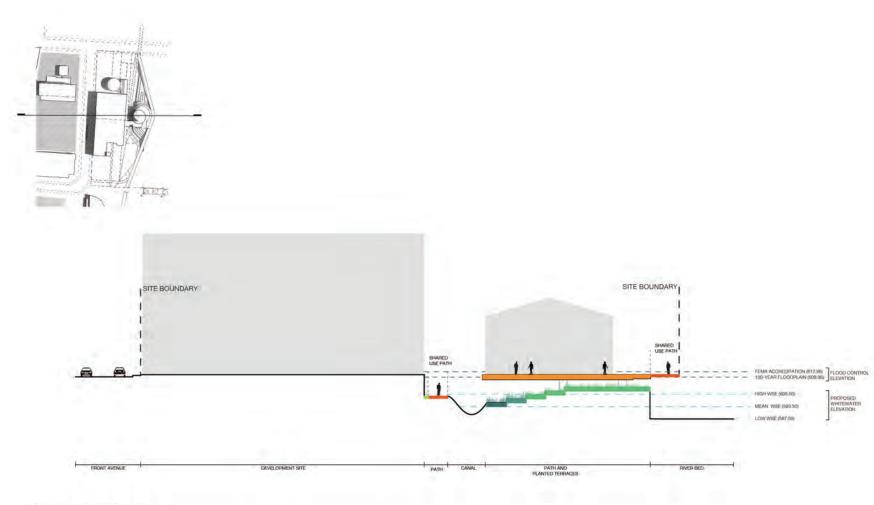


FIG A1.144: Proposed Public Museum site sections



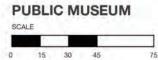


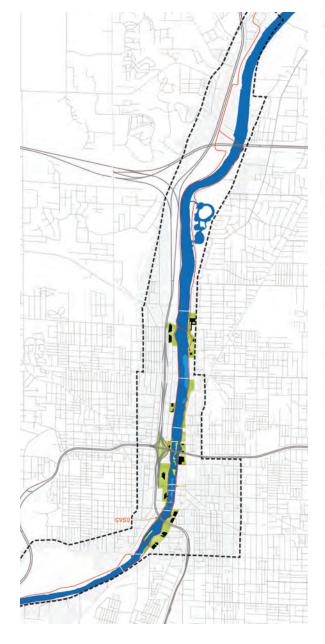
FIG A1.145: Proposed Public Museum site sections





FIG A1.146: Proposed GVSU aerial rendering

>> GVSU Seidman



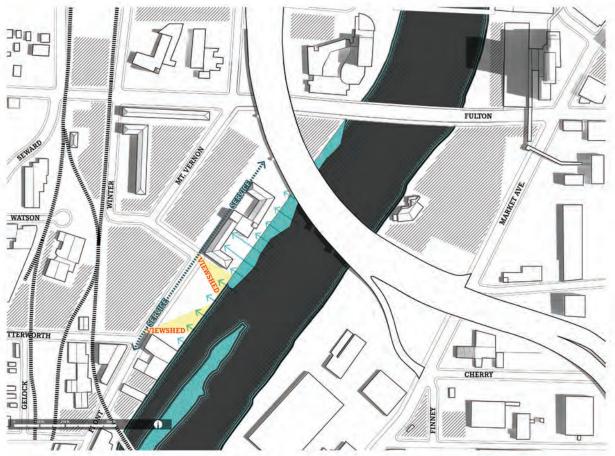


FIG A1.147: GVSU Seidman opportunities and constraints



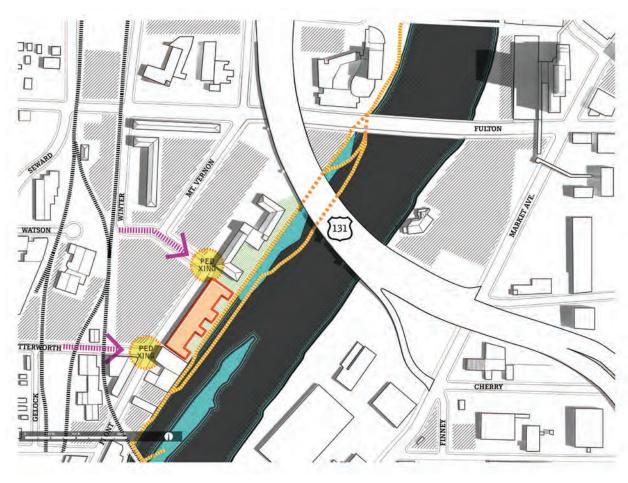


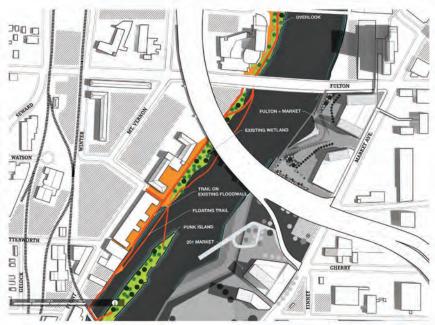
FIG A1.148: GVSU Seidman concept design

The goals of GVSU Seldman are:

- Allow for the creation of a new edge to **GVSU**
- > Expand public openspace access on the Westside
- Create unique views to the river
- Create pedestrian access to river provide a continuous multi-use
- > Create an upper and lower trail for varied experience and view of the river

Flood Managment Method

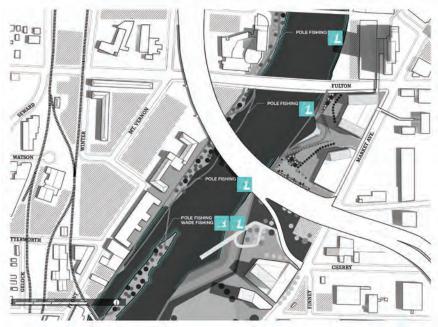
> Green wall along Winter Ave rail



 $FIG~A1.149: {\it Proposed~GVSU~Seidman~site~plan}$



FIG A1.151: GVSU Seidman flood considerations



 $FIG~A1.150: {\it Proposed~GVSU~Seidman~water~access}$

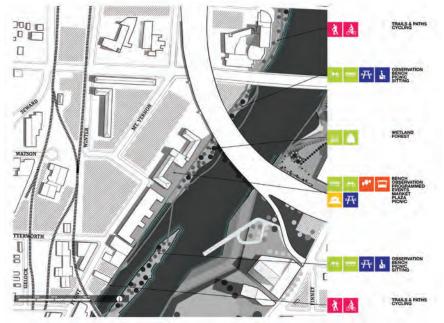


FIG A1.152: Proposed GVSU Seidman land program



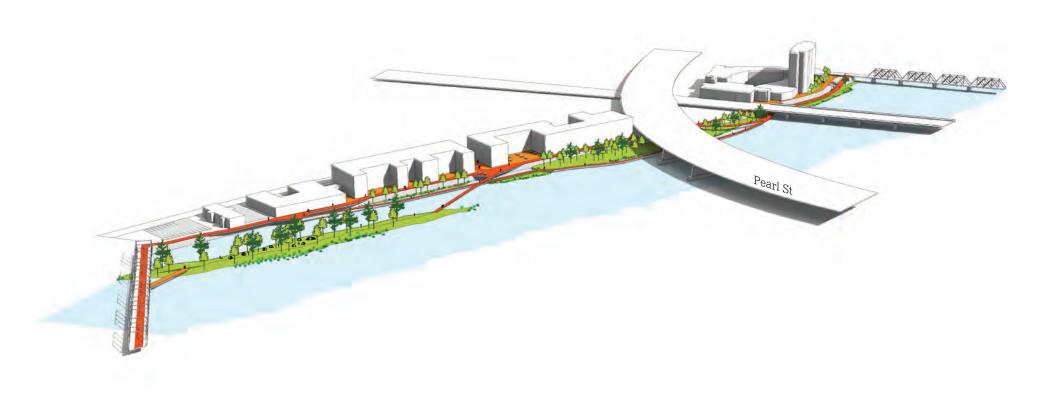


FIG A1.153: Proposed GVSU Seidman aerial view

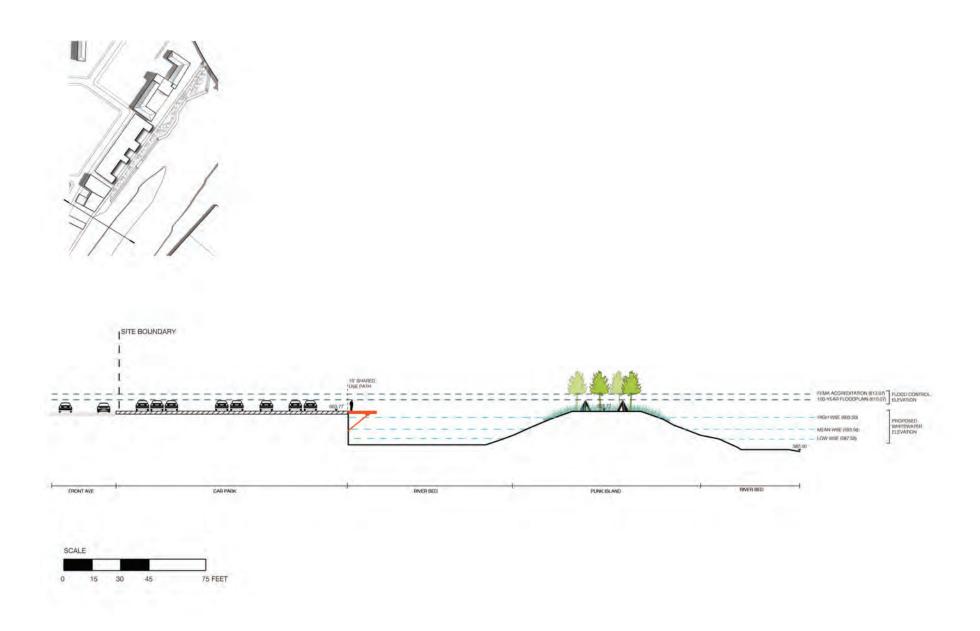


FIG A1.154: Proposed GVSU Seidman site sections



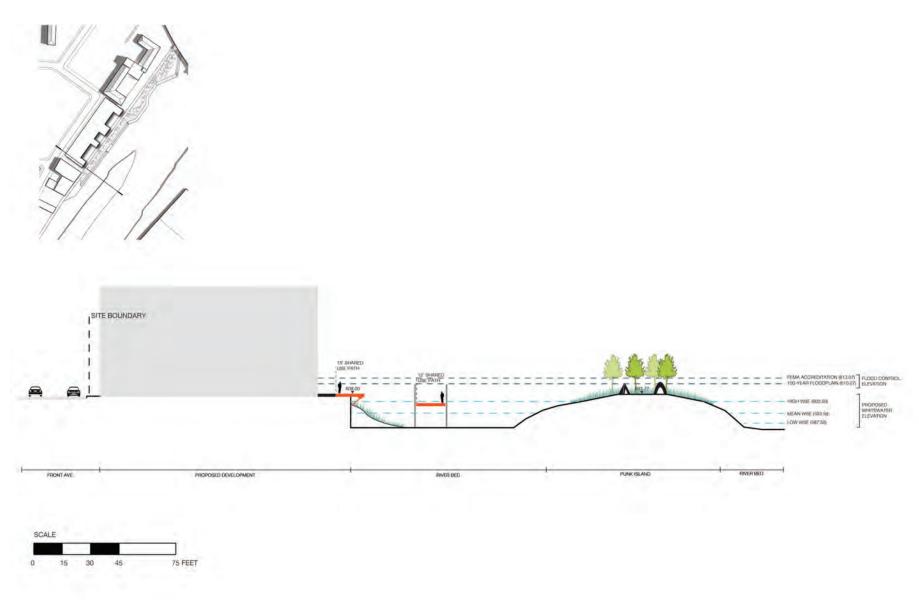


FIG A1.155: Proposed GVSU Seidman site sections

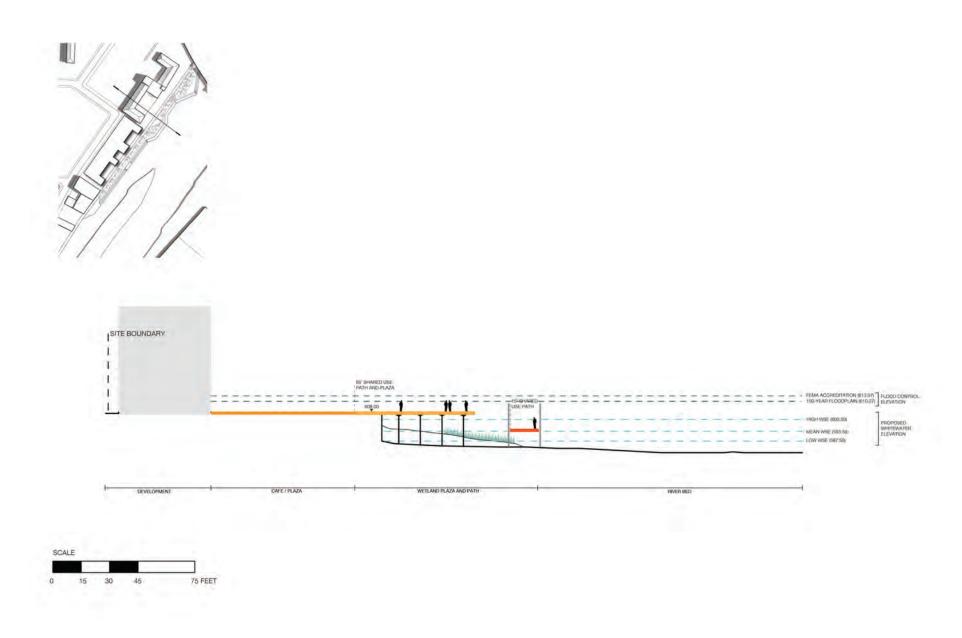


FIG A1.156: Proposed GVSU Seidman site sections



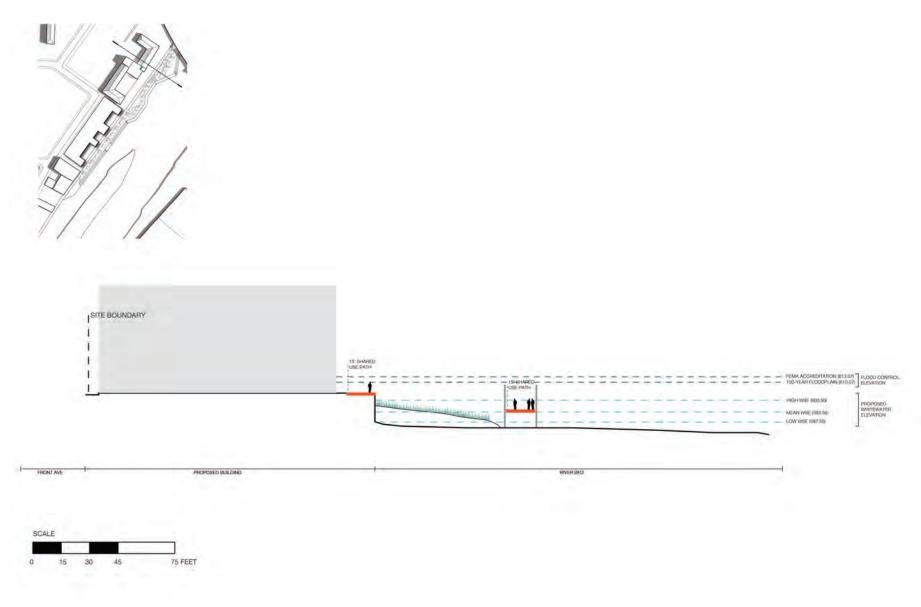


FIG A1.157: Proposed GVSU Seidman site sections



FIG A1.158: Proposed GVSU aerial rendering

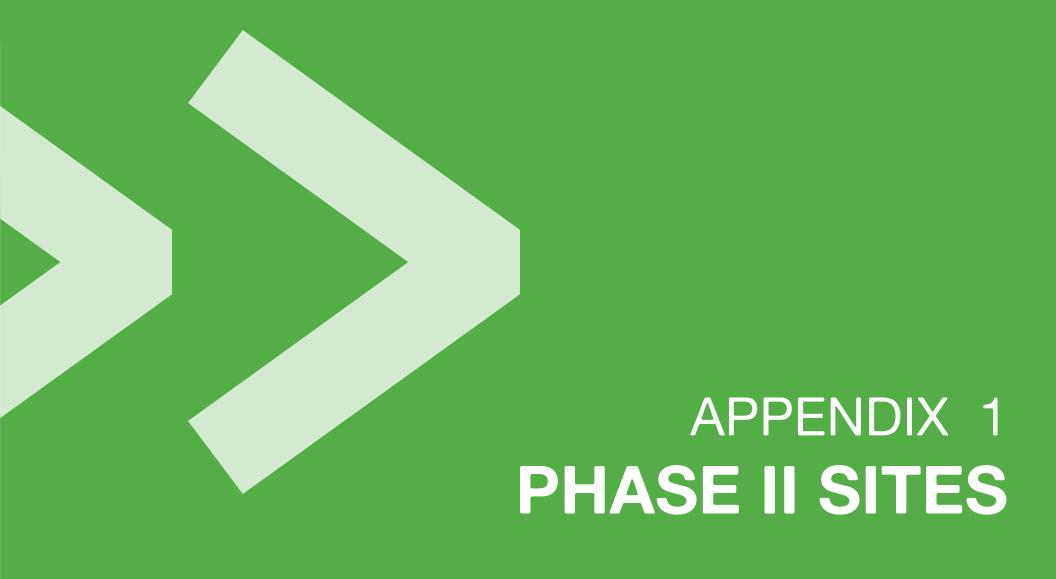




FIG A1.159: Potential phase 2 development sites

- 1 Market St. Marina
- 2 Punk Island Urban Campground
- 3 City Island Plaza
- 4 Middle River Islands
- 5 Post Office
- 6 The Ledge
- 7 Bridge Park
- 8 Riverside Park Lagoon
- 9 Walker Waterfront Park
- 10 Westside Park
- 11 Indian Mill Creek Greenway
- 12 Storm Park
- 13 Tech Park



>> Market St. Marina



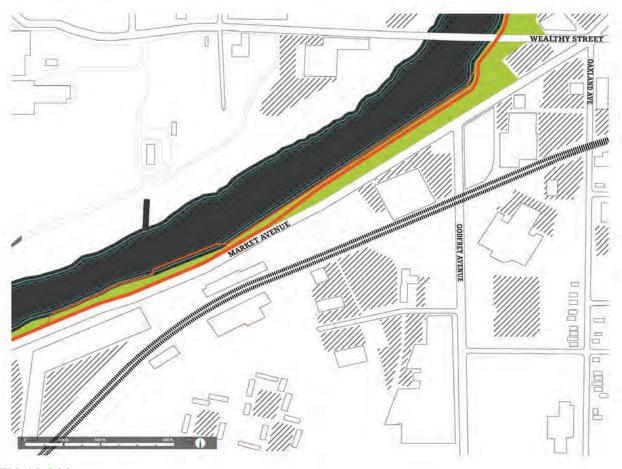


FIG A1.160: Proposed Market Street Marina site plan

>> Punk Island Campground



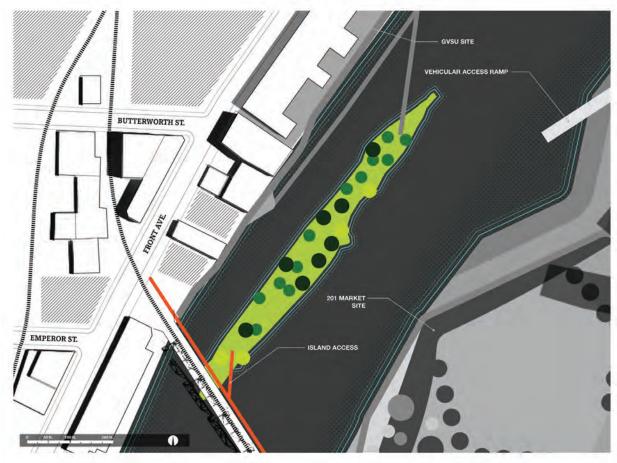


FIG A1.161: Proposed Punk Island Urban Campground site plan



>> City Island Plaza





FIG A1.162: Proposed City Island Plaza site plan

>> Middle River Island





 $FIG~A1.163: {\it Proposed Middle River Islands site plan}$



>> Post Office



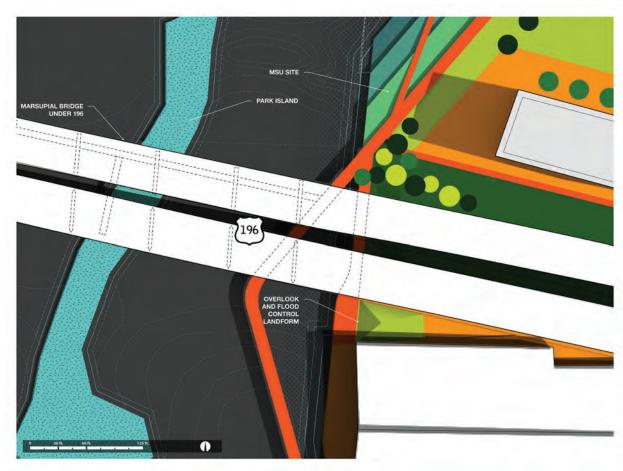


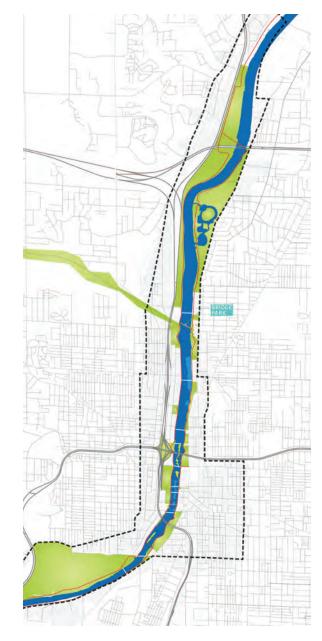
FIG A1.164: Proposed Post Office site plan

>> The Ledge FIG A1.165: Proposed The Ledge site plan





>> Bridge Park



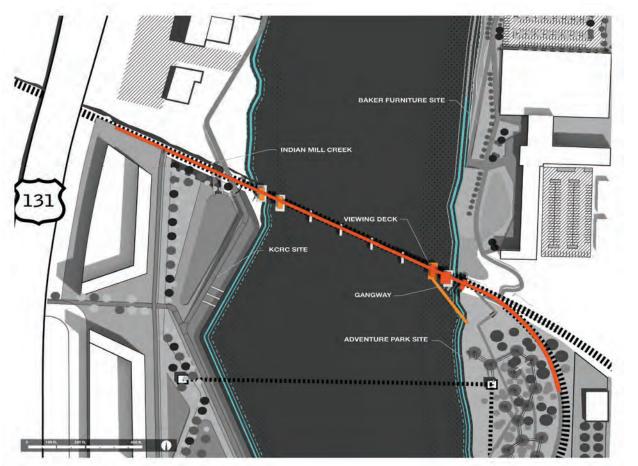


FIG A1.166: Proposed Bridge Park site plan

>> Riverside Park Lagoon



FIG A1.167: Proposed Riverside Park Lagoon site plan



>> Walker Waterfront Park





FIG A1.168: Proposed Walker Waterfront Park site plan

>> Westside Park



FIG A1.169: Proposed Westside Park site plan



>> Indian Mill Greenway



FIG A1.170: Proposed Indian Mill Creek Greenway site plan

>> Storm Park

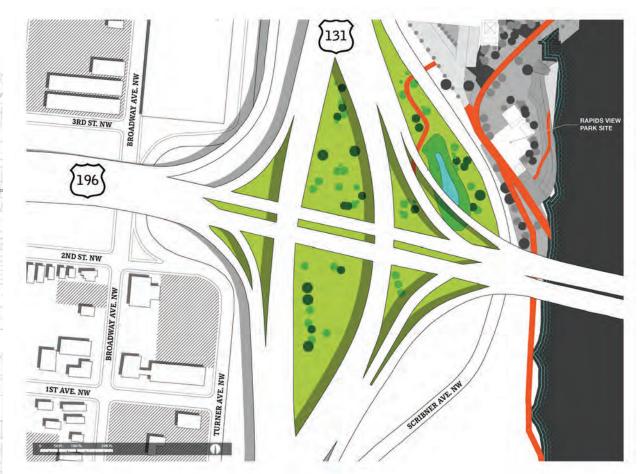


FIG A1.171: Proposed Storm Park site plan

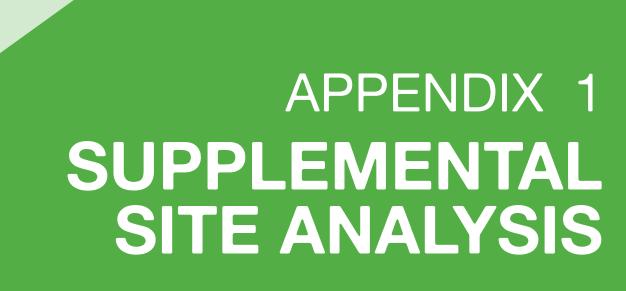


>> Indian Mill Greenway



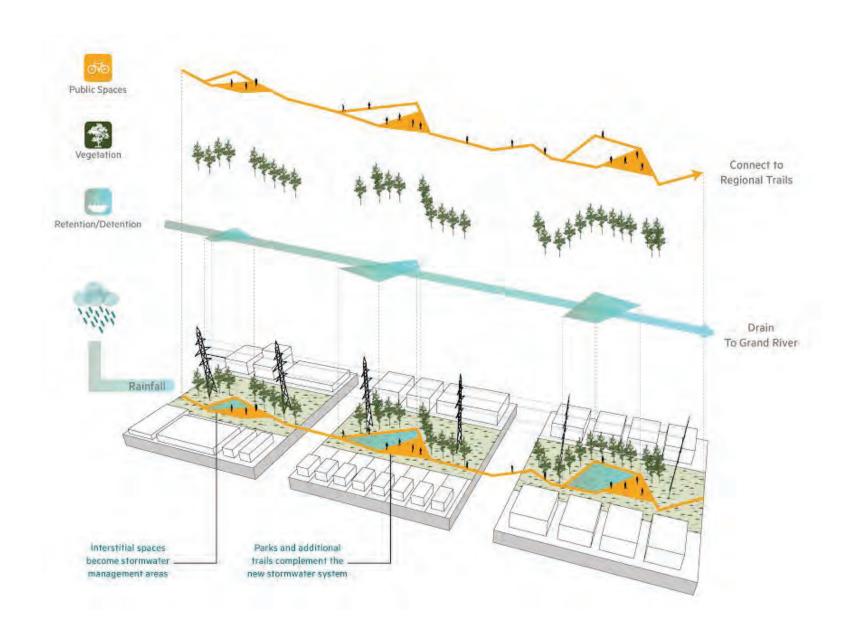


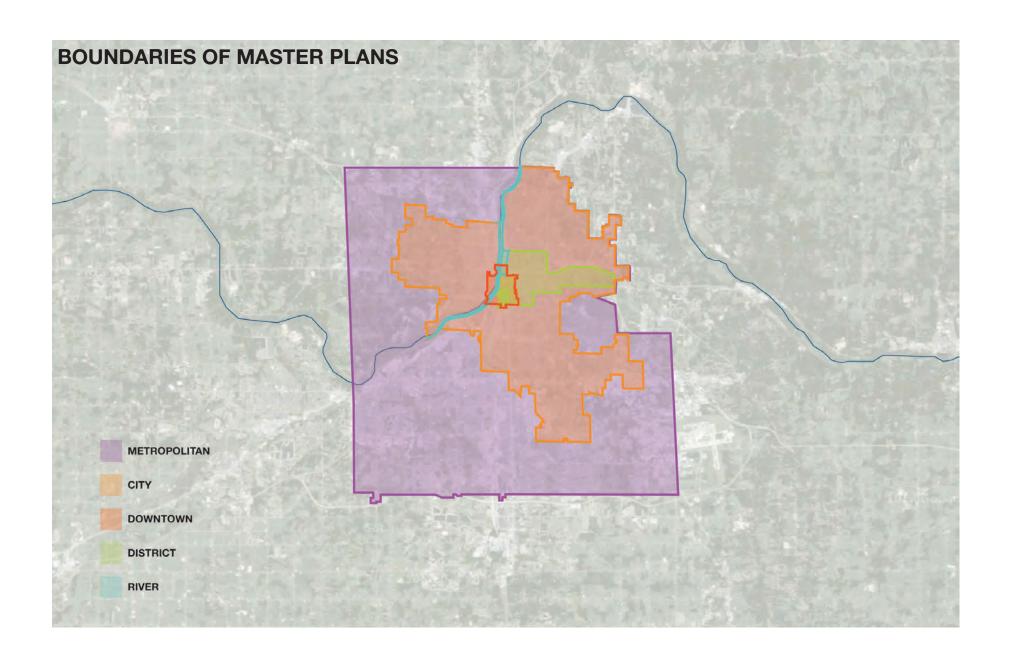
FIG A1.172: Proposed Tech Park site plan



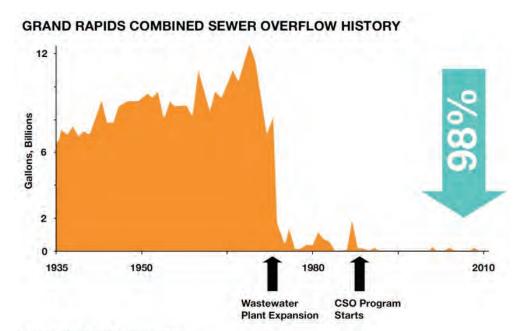


BMPs CONNECTIVE HYDROLOGY SYSTEMS



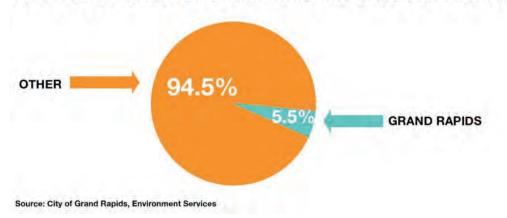




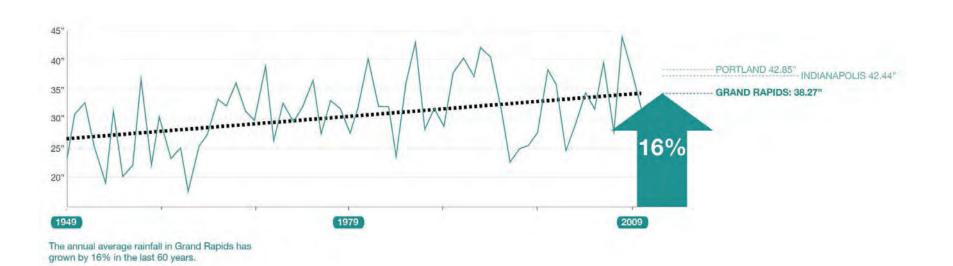


Source: City of Grand Rapids, Environment Services

2009 CSO DISCHARGE TO THE GRAND RIVER (% OF VOLUME)

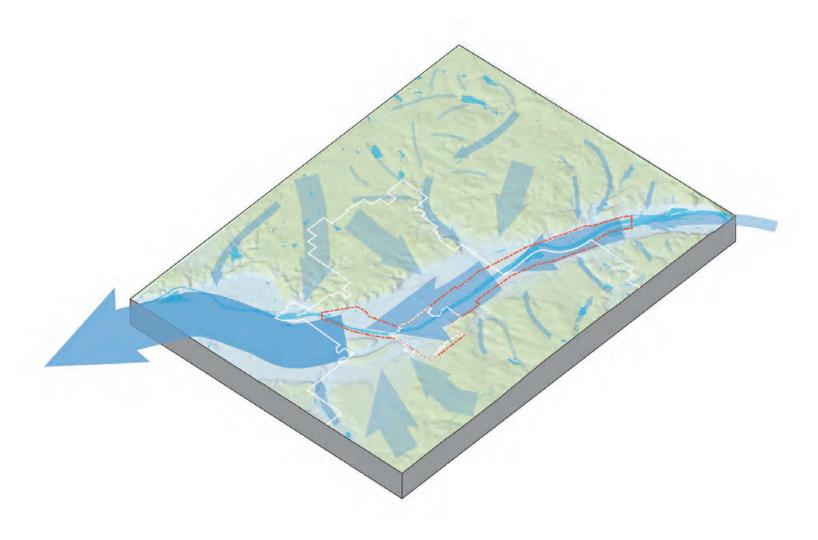


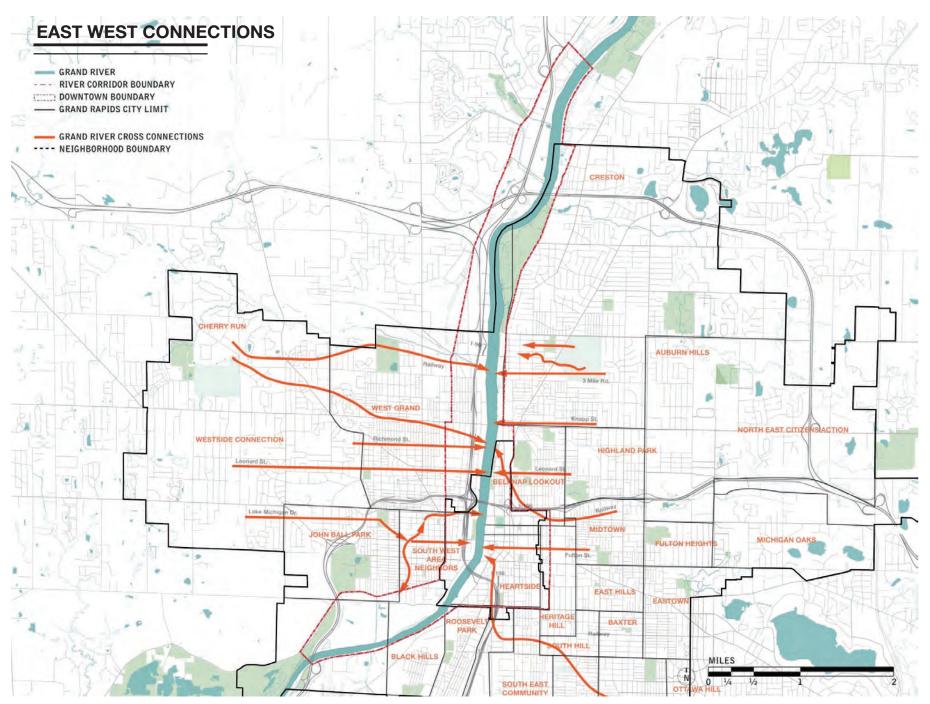
CLIMATE CHANGE - RAINFALL



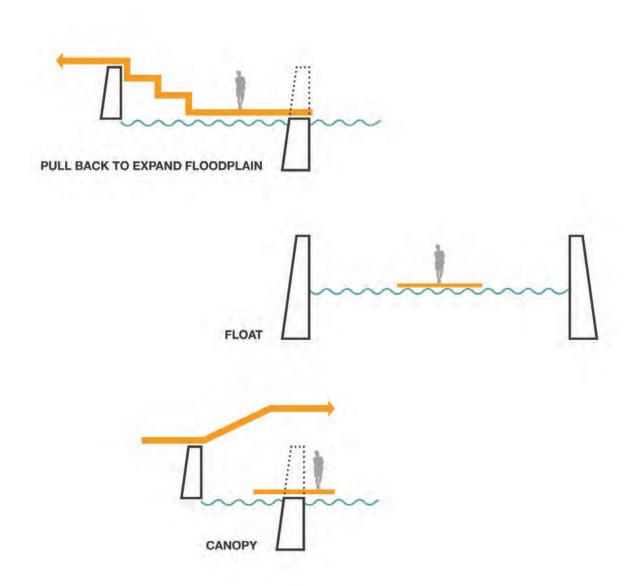


DRAINAGE MAP

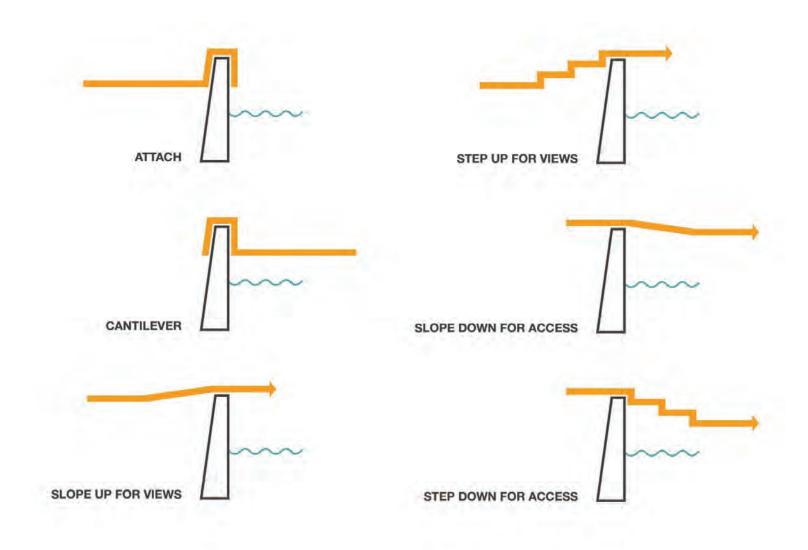






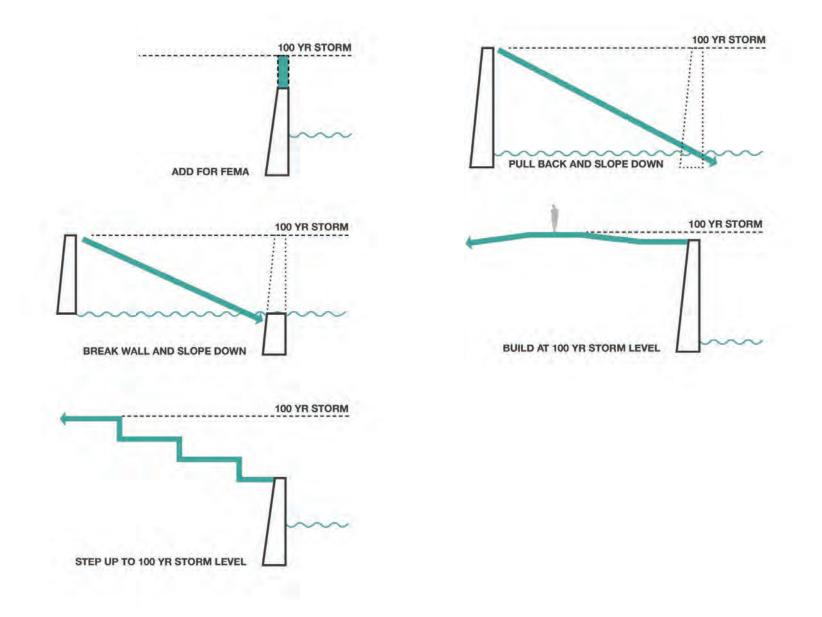


EDGE DESIGN - ACCESS + RECREATION

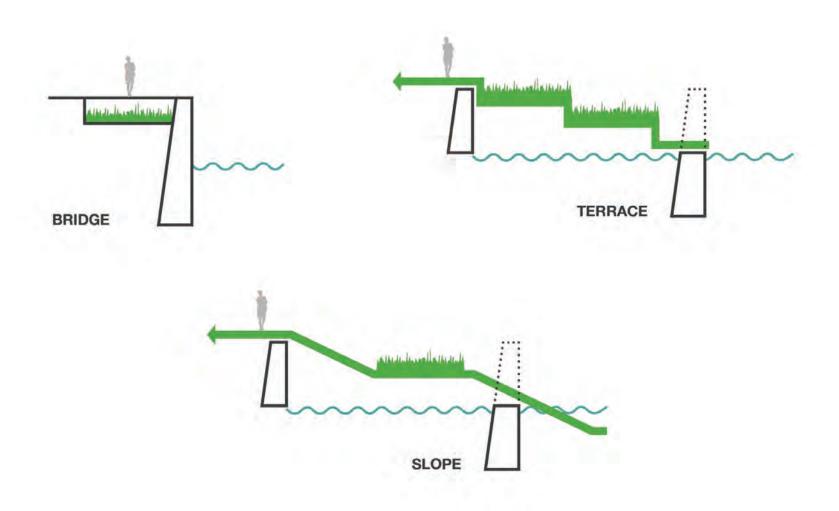


EDGE DESIGN - ACCESS + RECREATION



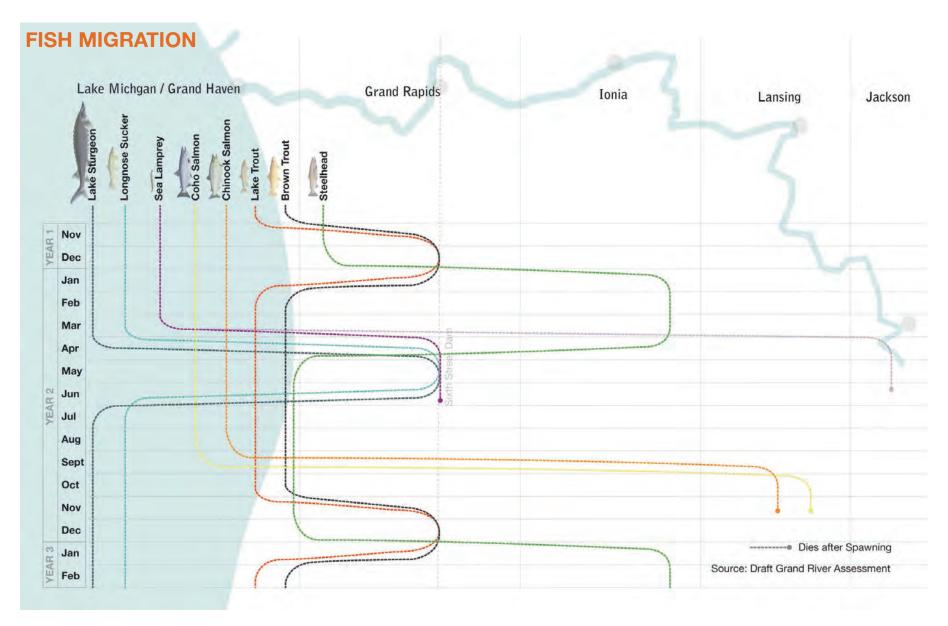


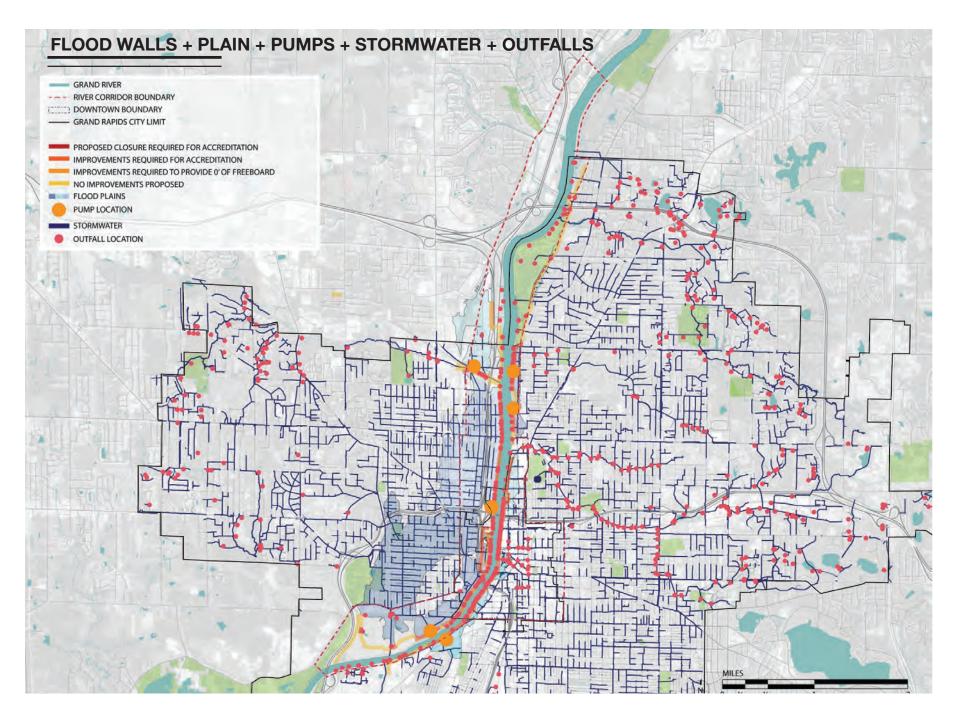
EDGE DESIGN - FLOOD MANAGEMENT



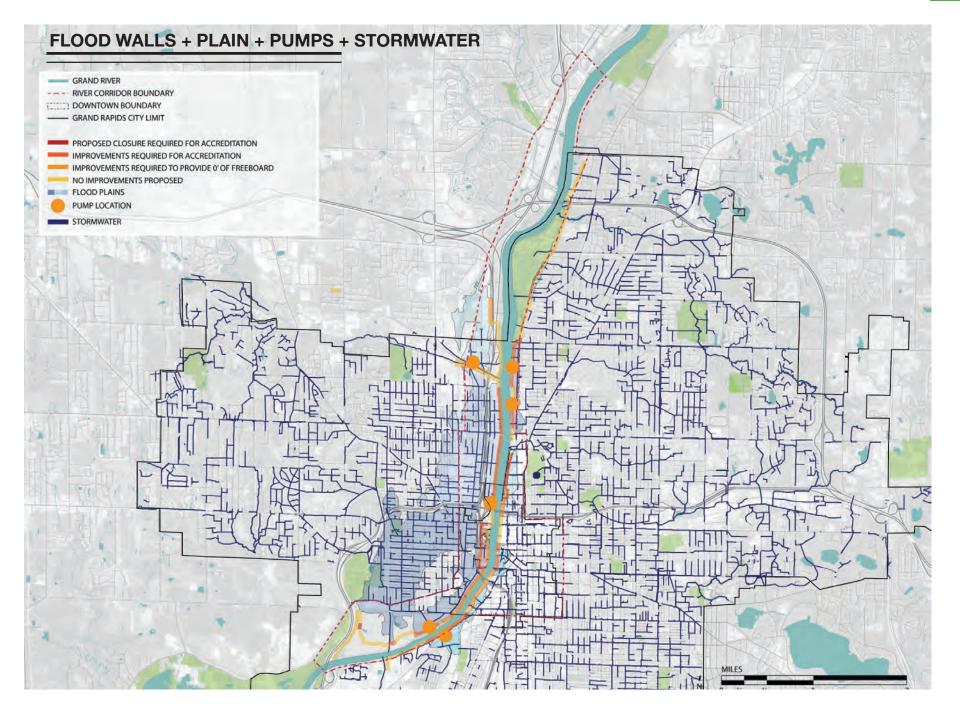
EDGE DESIGN - STORMWATER MANAGEMENT

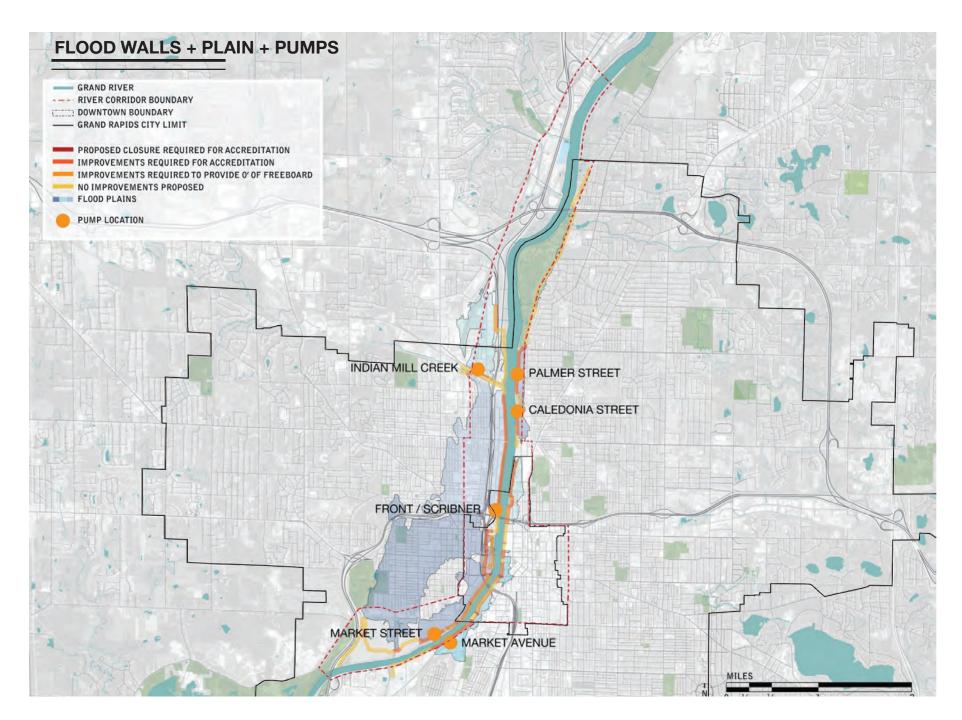




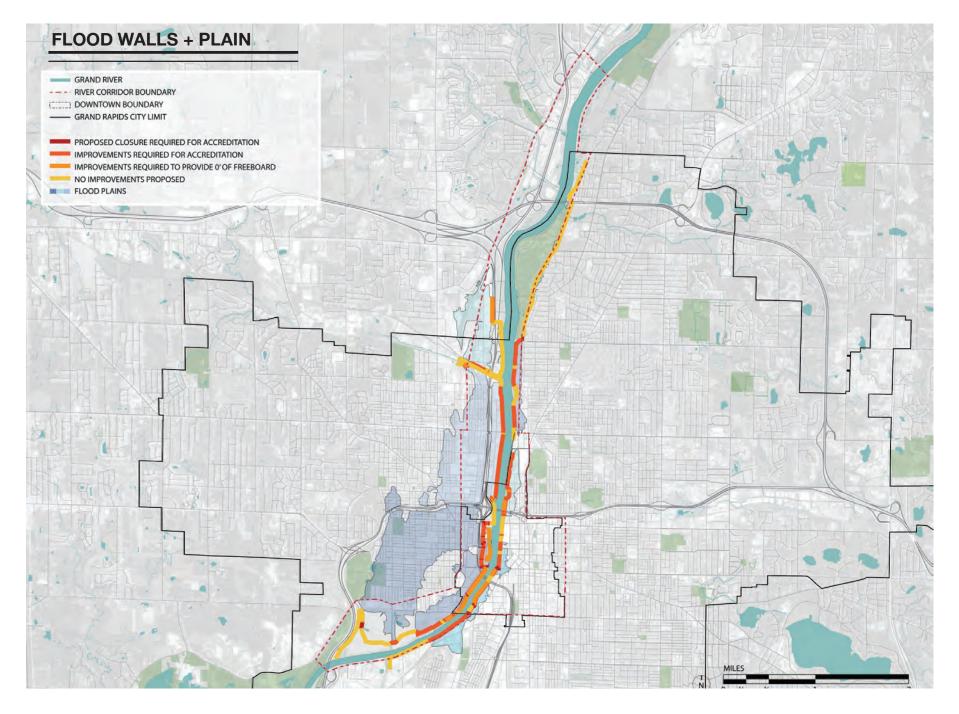


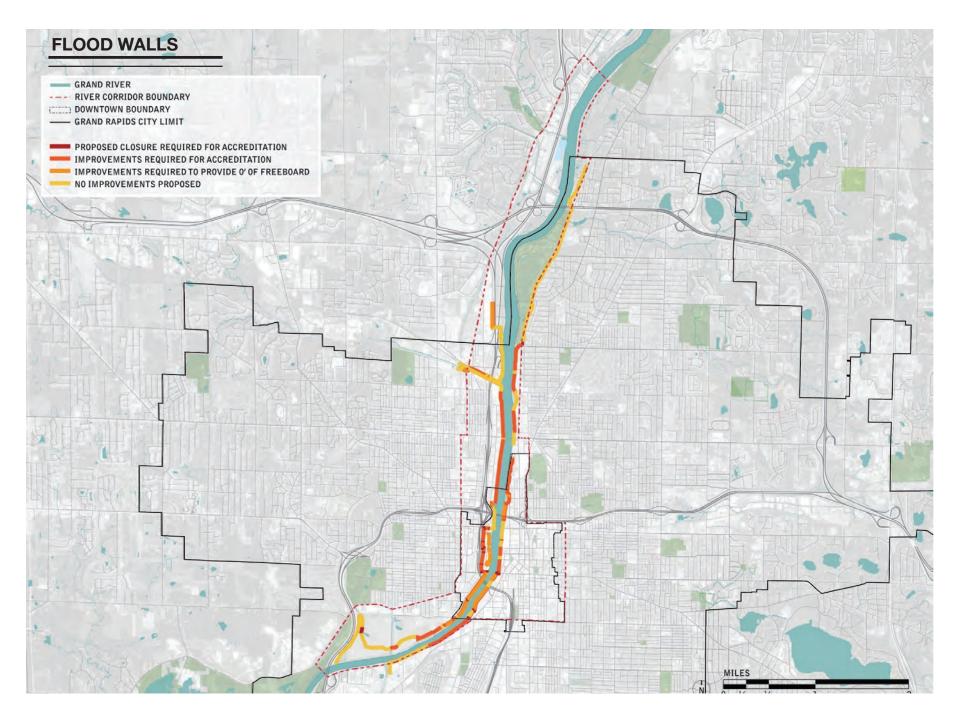




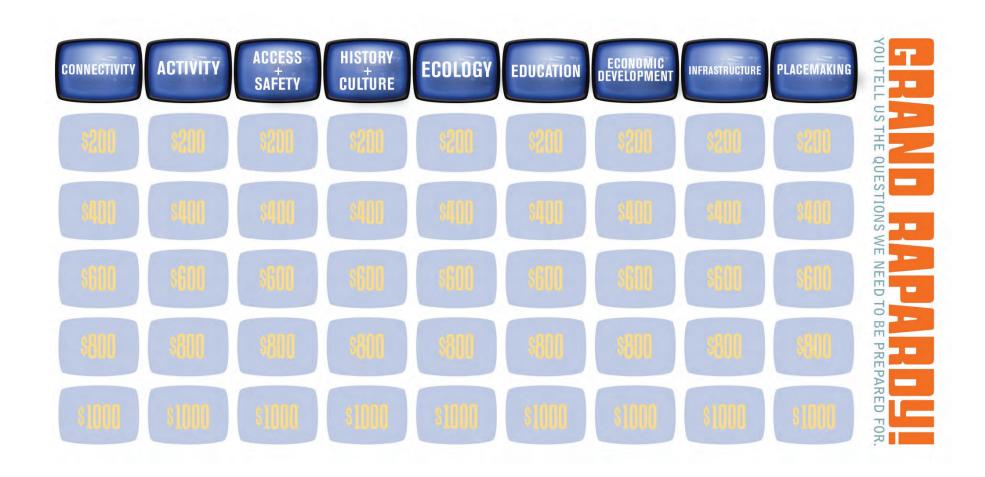






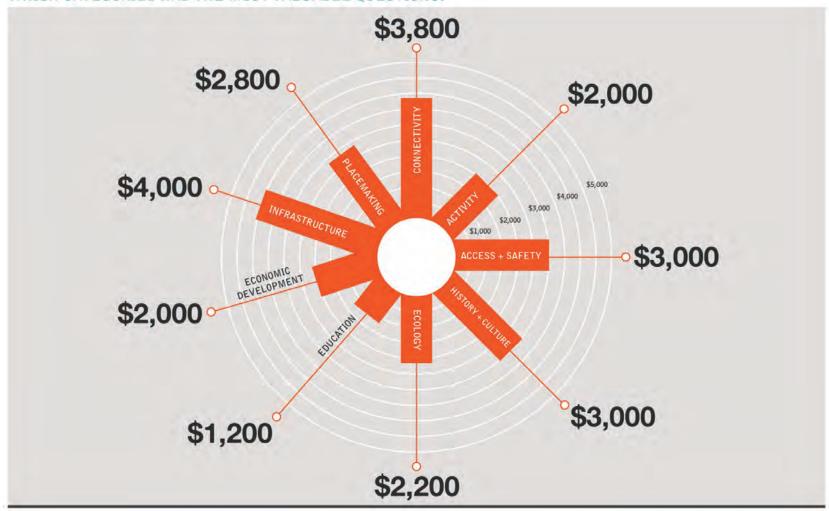




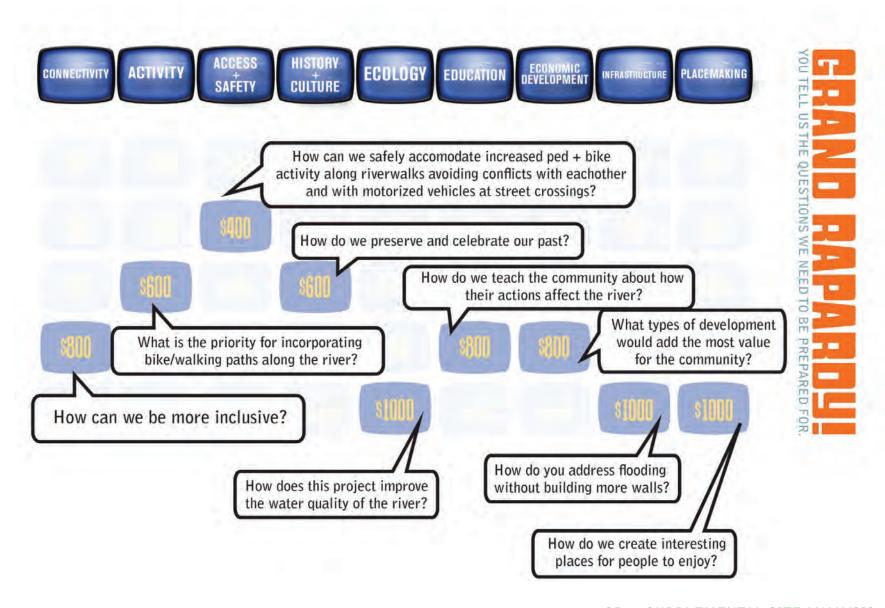


New Themes

WHICH CATEGORIES HAD THE MOST VALUABLE QUESTIONS?



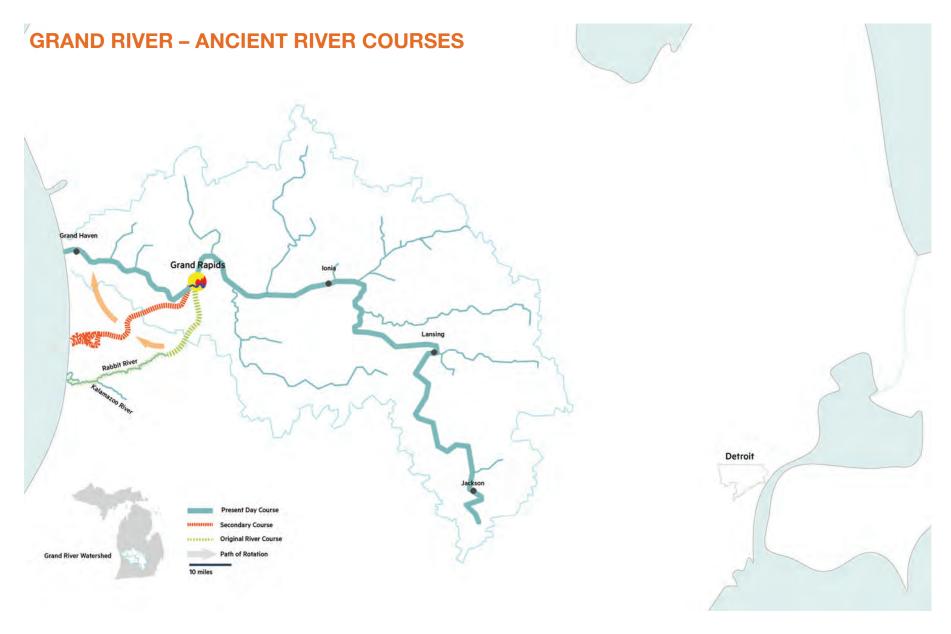


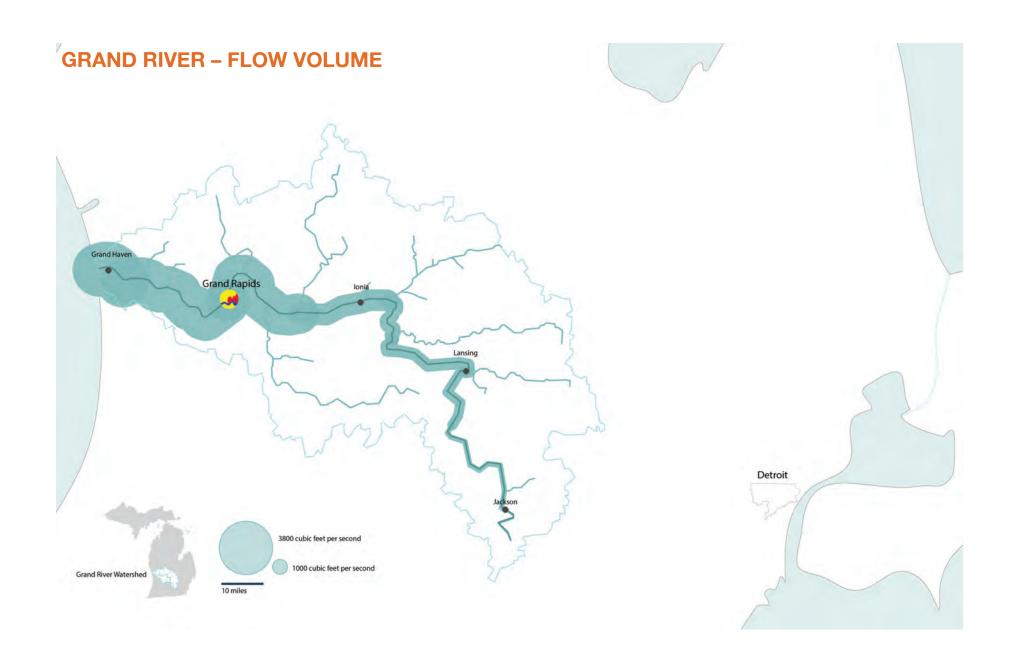




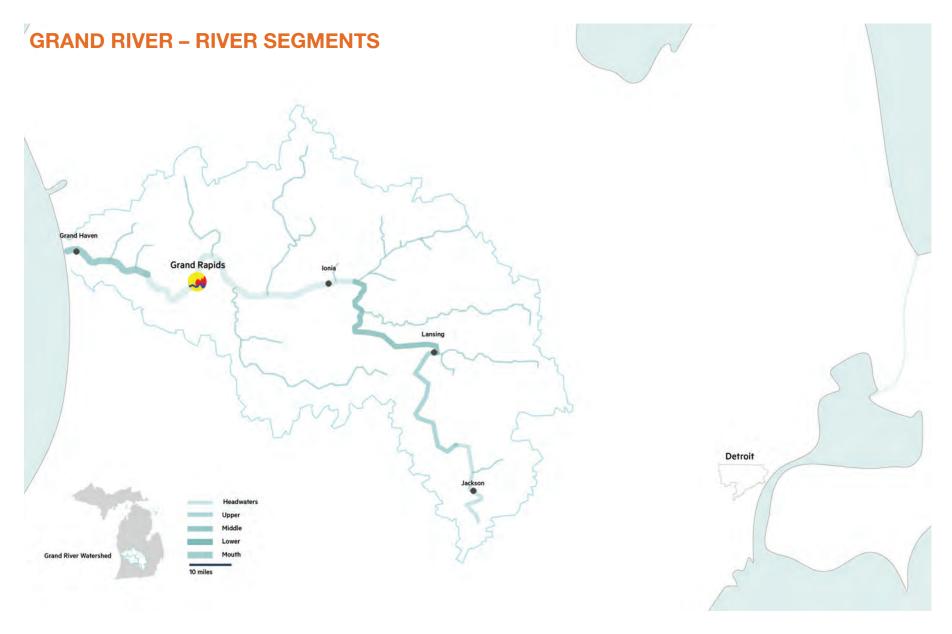
Grand Rapardy → **Themes**



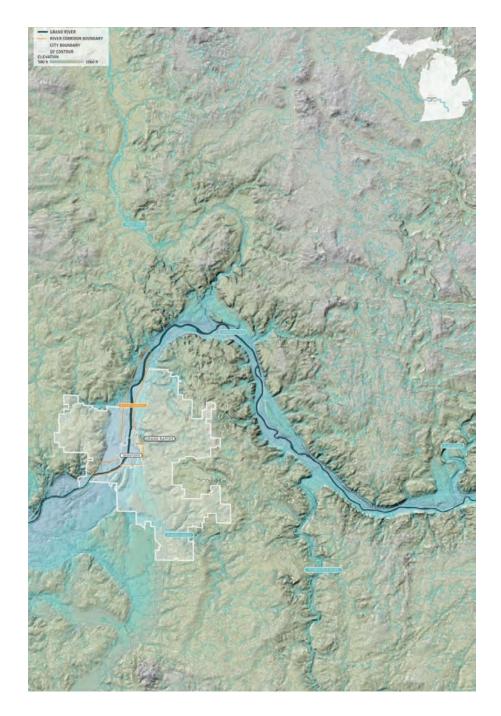






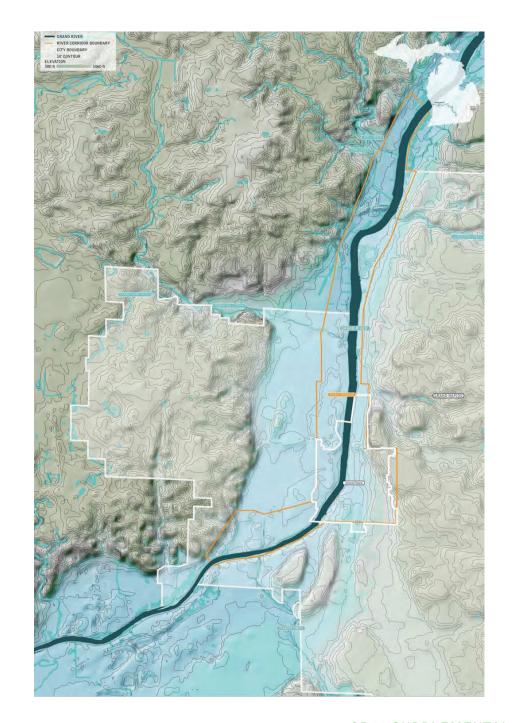


HOW THE RIVER FORMED





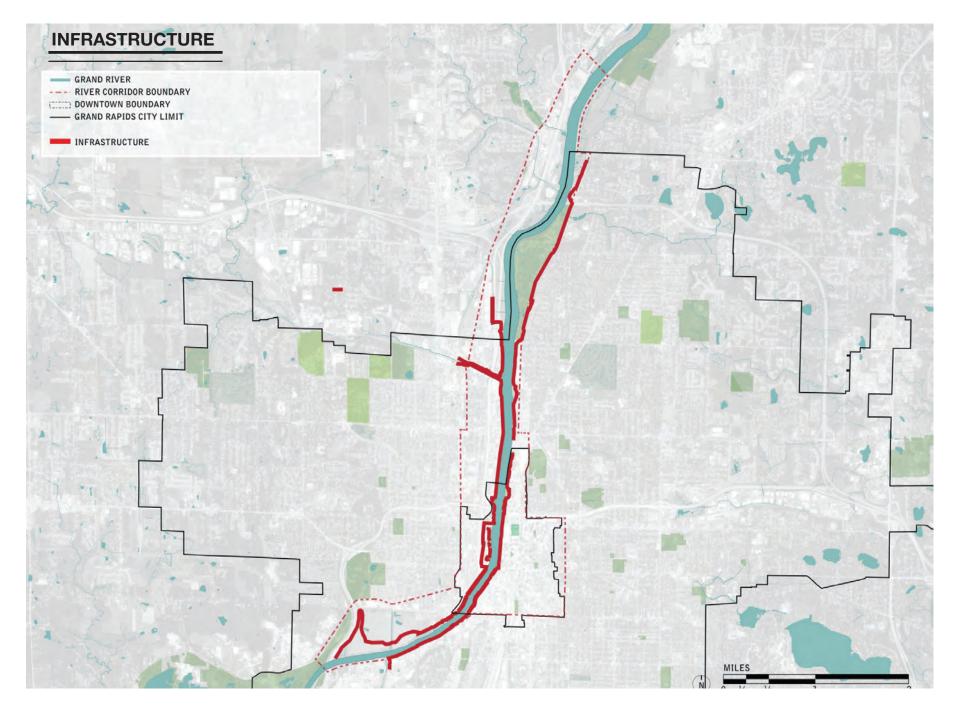
HOW THE RIVER FORMED

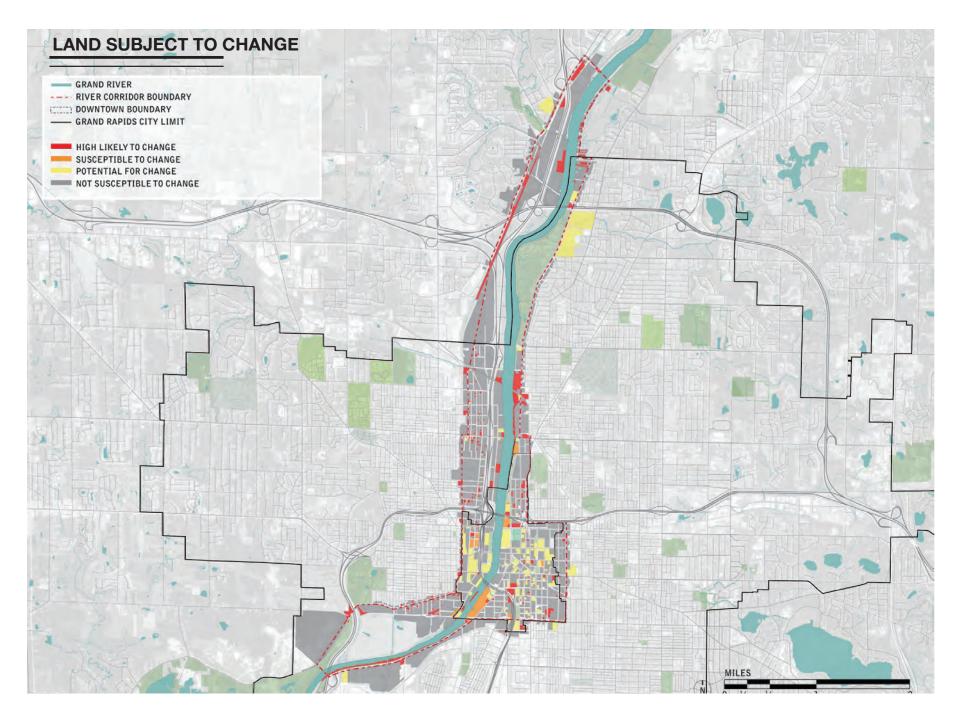


HYBRIDIZED HYDROLOGY



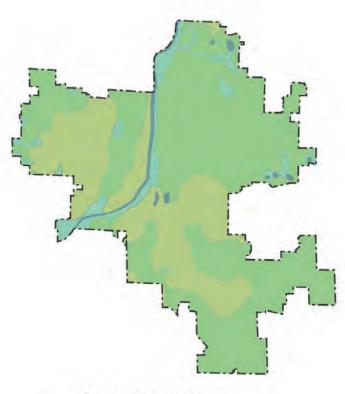






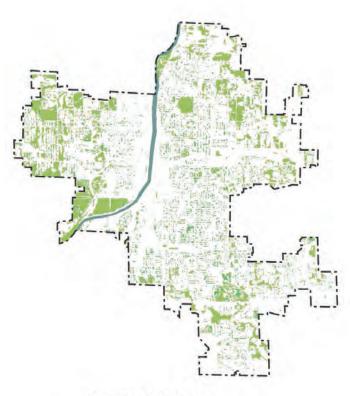


LAND COVER

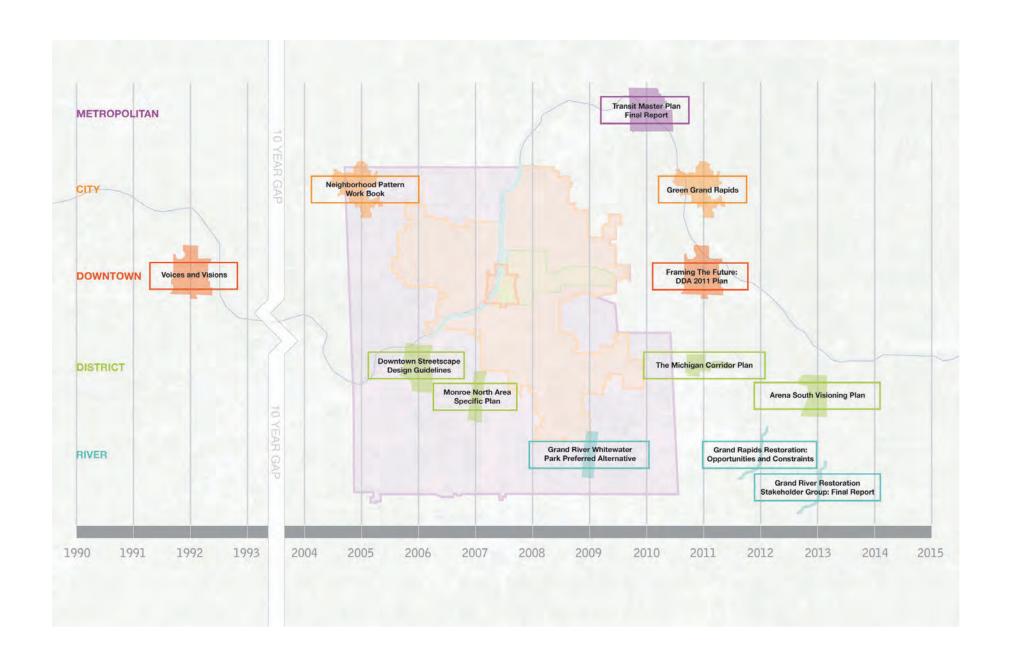


GRAND RAPIDS 1816 Source: Natural System Atlas by Green Grand Rapids





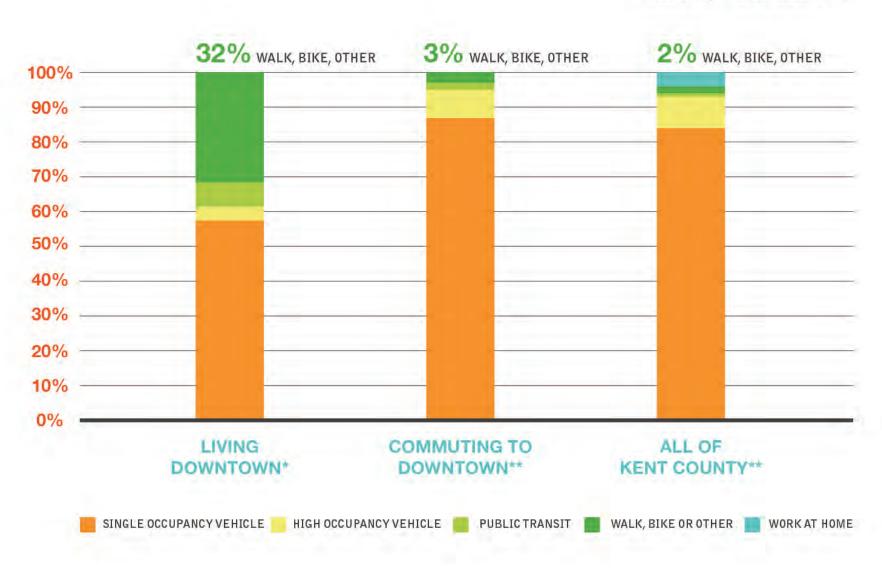
GRAND RAPIDS 2008
Source: Urban Forest Ecological Services Assessment by City of Grand Rapids



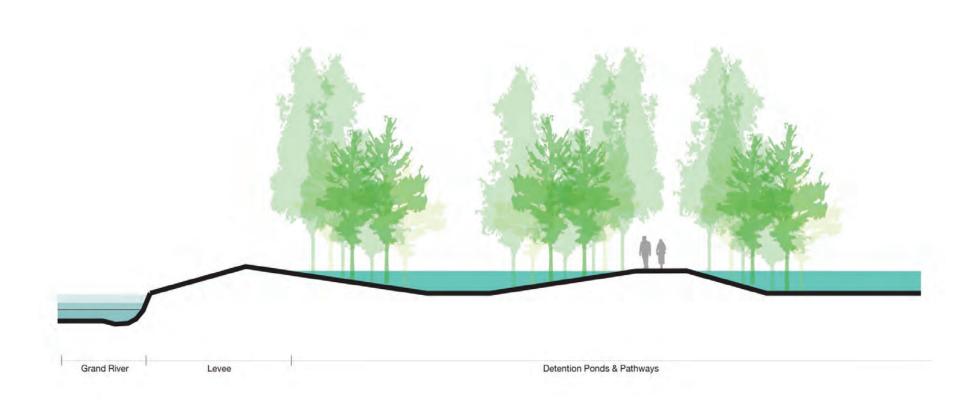


GRAND RAPIDS MODE OF TRANSPORTATION SPLIT

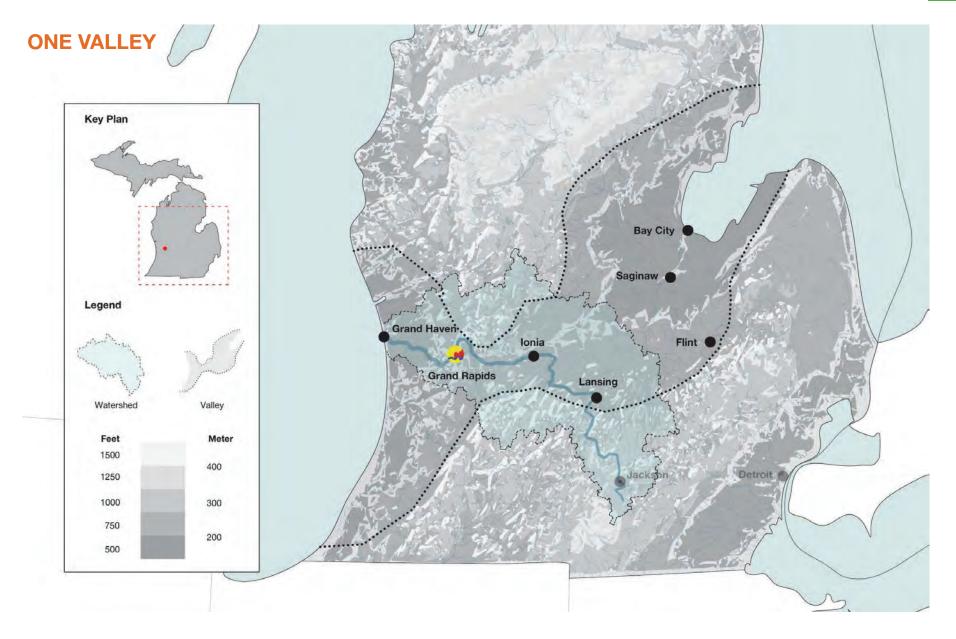
* 2012 ACS, ** 2006-2010 CTPP

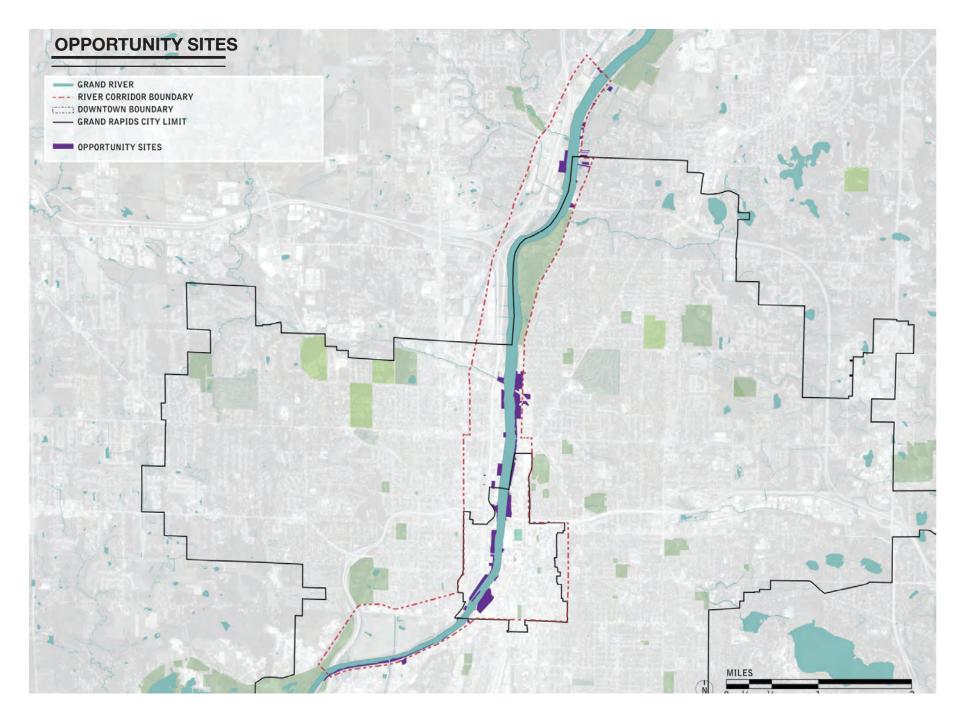


NEW HYDROLOGY – STORMWATER POLISHING

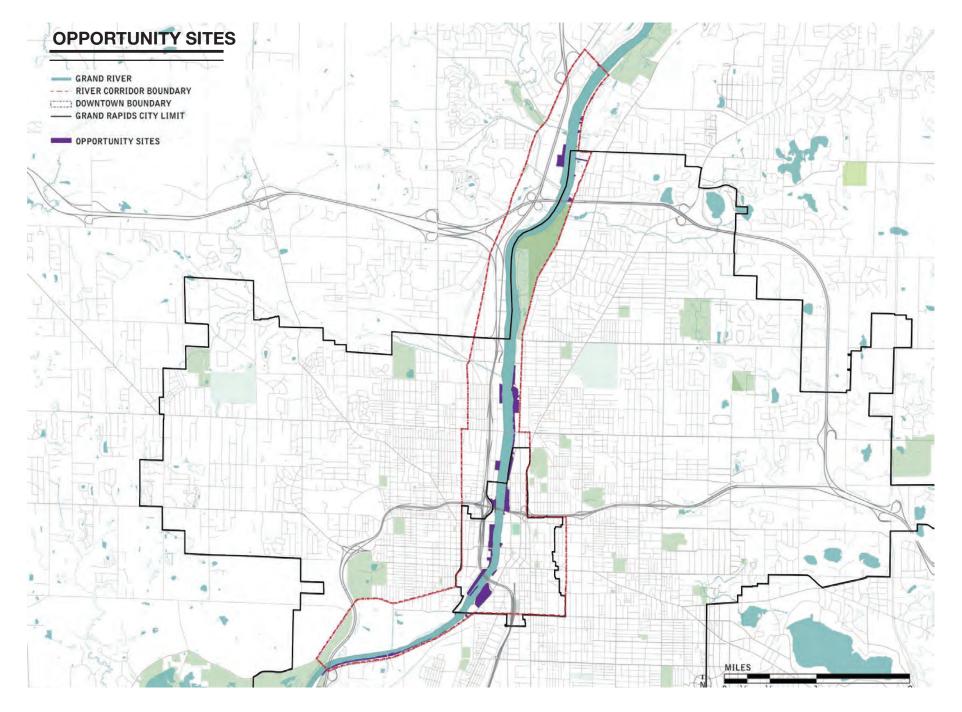




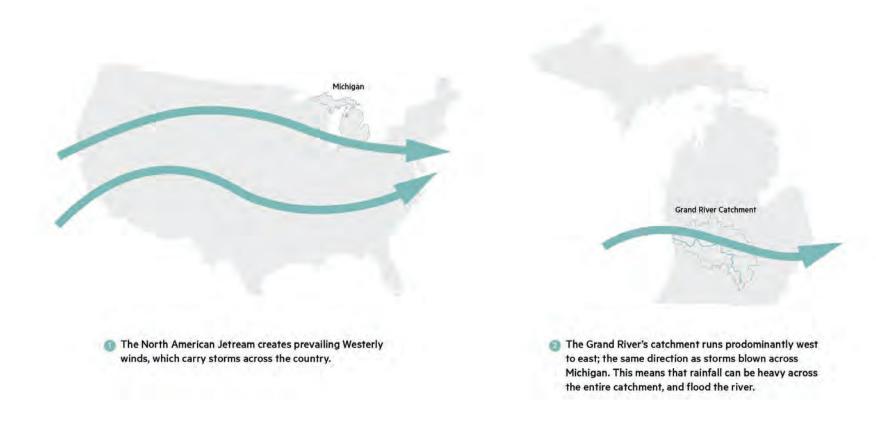




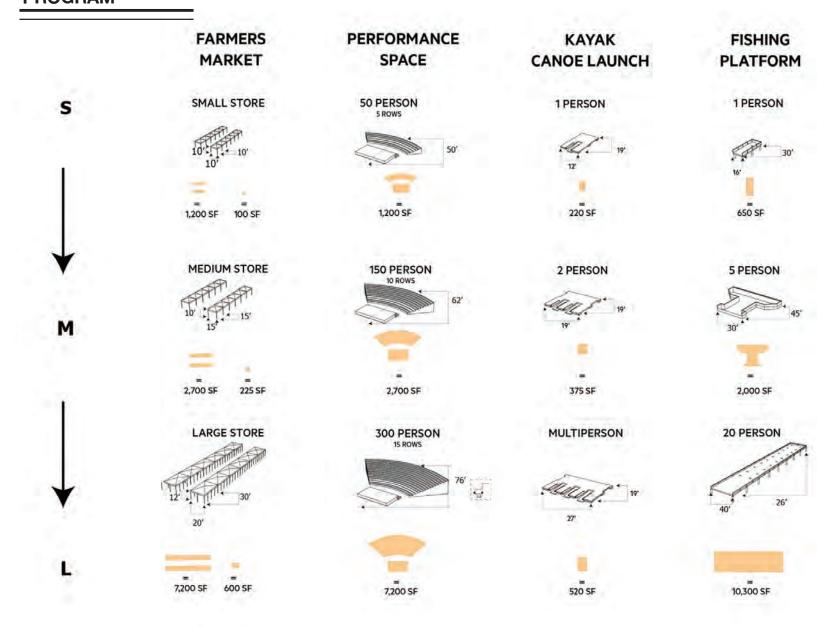


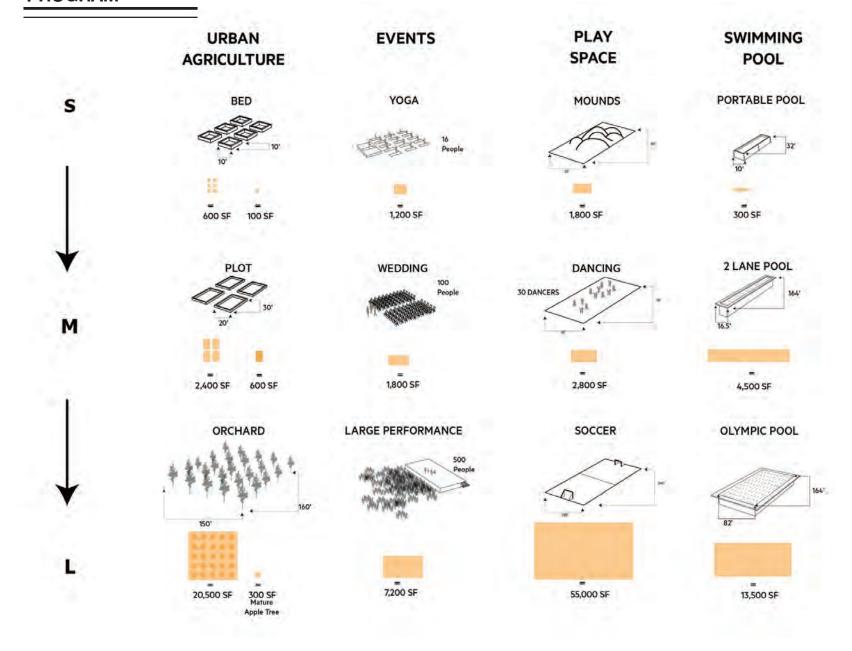


PREVAILING WINDS



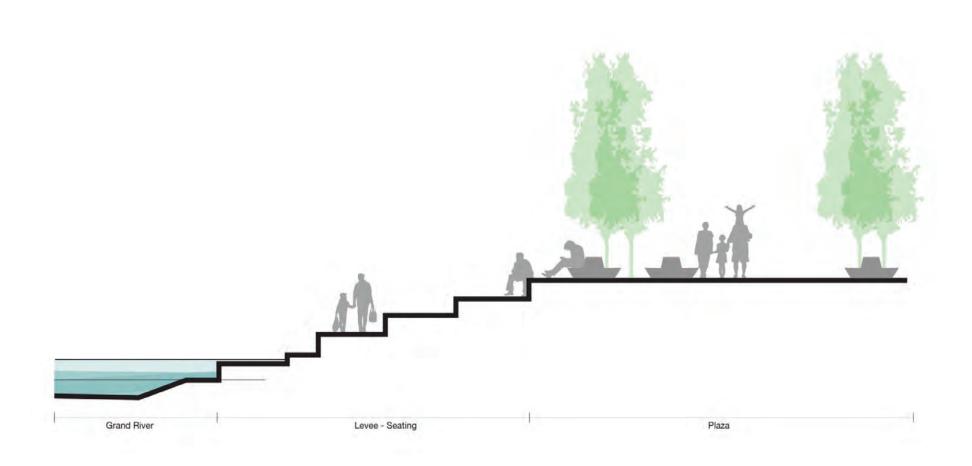


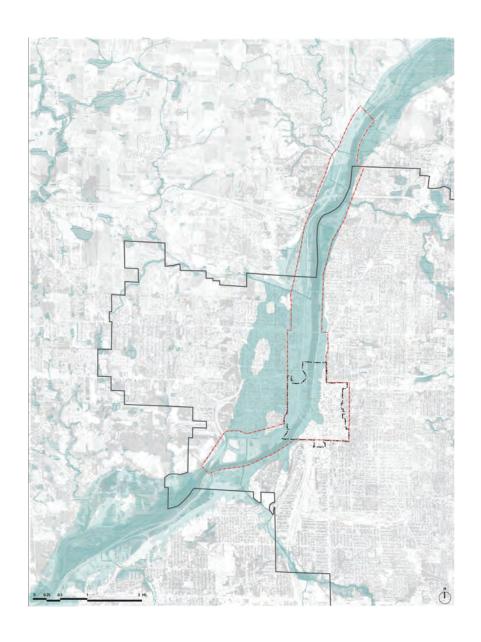




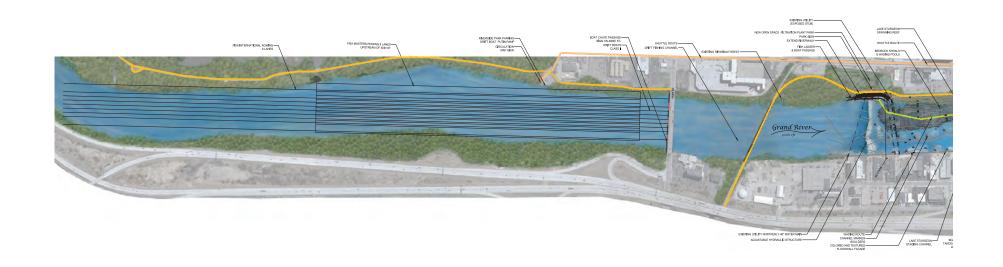


PROPOSED EDGE CONDITIONS – LEVEE + SEATING





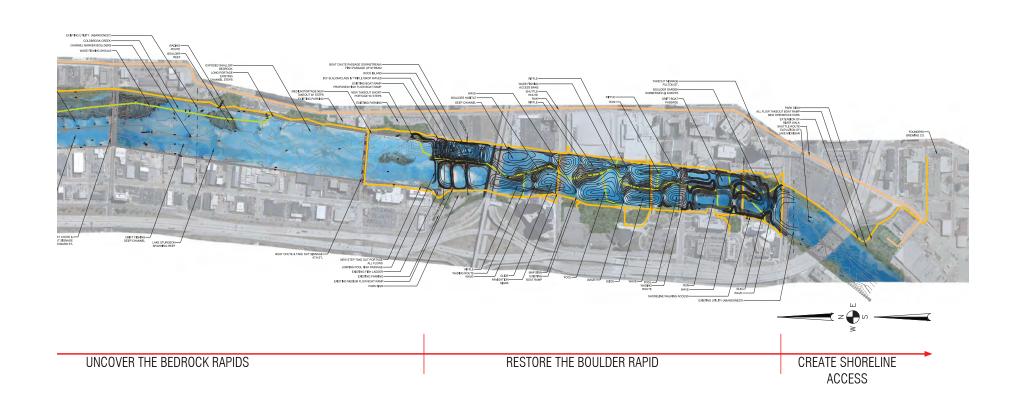
APPENDIX 1 WHITEWATER RIVER RESTORATION



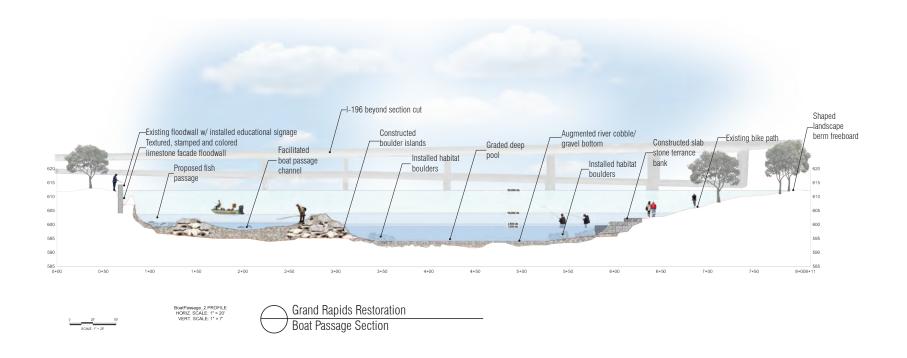
IMPROVE THE ROWING POOL

MASTER PLAN

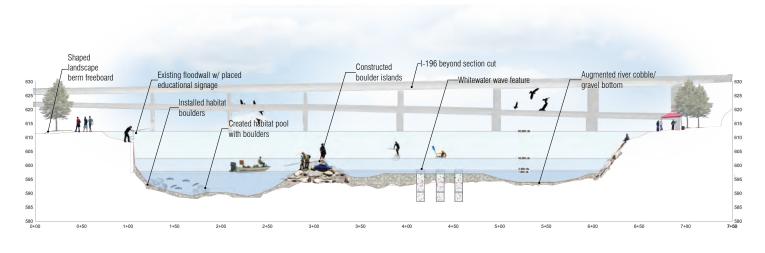




STRENGTH IN DIVERSITY







Grand Rapids Restoration

Boat Passage Section

Boat Passage Section

