



**City of Madison
Parks Division
Madison, WI**

Request for Qualifications #10082:
**Lake Monona
Waterfront Design
Challenge**

Submitted by:

port

in collaboration with

**Snow Kreilich
Architects**

**Pine & Swallow
Environmental**

SB Friedman

Anchor QEA

Proof Projects

Kimley-Horn

**Thornton
Tomasetti**

May 2, 2022



CONTACT INFORMATION

LAUREN MCPHILLIPS,
MARKETING & BUSINESS DEVELOPMENT MANAGER
MCPHILLIPS@PORTURBANISM.COM
53 W JACKSON BLVD, SUITE 830
CHICAGO, IL 60604
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port

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May 2, 2022

RE: Lake Monona Waterfront Design Challenge RFQ #10082

Dear Members of the Selection Committee —

It is with great enthusiasm that we submit this statement of qualifications in response to the *Lake Monona Waterfront Design Challenge RFQ*. **PORT** is a highly collaborative, mission-based design and planning studio that partners with communities to transcend convention and create civic environments for the future. Led by Christopher Marcinkoski and Andrew Moddrell, and based in Chicago and Philadelphia, the firm offers multi-disciplinary expertise in landscape architecture, architecture, and urban design, uniquely positioning us to negotiate, and creatively respond to, today's most complex public realm challenges. This multi-discipline practice model is unique for a practice of our size, allowing us to engage our projects from a range of disciplinary perspectives that leads to planning and design processes that are both ambitious and practical; grounded in a community's actual needs and agendas, while establishing precedents where opportunities for innovation appear.

PORT is joined in this effort by **Snow Kreilich Architects** (Snow Kreilich) a nationally recognized and award winning architecture practice based in Minneapolis, MN; **Pine & Swallow Environmental** (Pine & Swallow) a Groton, MA based consultancy specializing in landscape science and engineering, soil science and environmental chemistry; **SB Friedman Development Advisors** (SB Friedman) a Chicago-based interdisciplinary consulting firm with expertise in real estate economics and financial feasibility; **Anchor QEA** a national environmental science and engineering firm; **Proof Projects** (Proof) a Charlottesville-based consultancy specializing in Shoreline and Cultural Landscapes; **Kimley-Horn** a planning, engineering, and transportation consultancy; **Thornton Tomasetti** a global scientific and engineering consulting firm. The PORT Team believes our combination of design excellence, technical expertise, and multi-disciplinary approach makes us the perfect partners to deliver on this opportunity. More about each team member can be found below.

Snow Kreilich investigates architecture's capacity to transform experience. Snow Kreilich's design process begins with thorough research to support both the pragmatic and the intangible aspirations of clients, leading to architecture that represents the clients' ethos and mission. Grounded in the specifics of each site's historic, urban, cultural, and landscape context, Snow Kreilich's work intensifies our connection to a place, its history, its culture, and/or its natural systems.

Pine & Swallow's breadth of work exhibits that expert soil design provides the best foundation for landscapes to thrive long term. With projects ranging from city-wide landscape restorations to state-of-the-art parks and botanical gardens to streetscapes and rooftop landscapes, Pine & Swallow provides science-based horticultural soil consulting expertise.

For over 32 years, **SB Friedman** has helped its clients create equitable, resilient and well-designed communities through the practice of real estate economics, development finance and urban planning. The firm has been recognized as one of the few advisory firms that truly understands both the public and private perspectives on real estate-related issues. SB Friedman provides expertise on a full suite of development advisory services.

Anchor QEA is an environmental science and engineering firm that specializes in aquatic, shoreline, and water resource projects, including coastal engineering and flood risk management. Anchor QEA brings significant local experience and expertise to the PORT Team. With offices in Madison and Milwaukee, Anchor QEA staff have extensive experience working along the Great Lakes coasts and have worked closely with both state and federal agencies to ensure the successful delivery of local projects for more than 15 years.

Proof brings over 40 years of combined experience in researching and designing public space, infrastructure, and ecology in coastlines, ports, forest lands, and riparian landscapes. Proof's services help clients achieve successful projects that create meaningful and culturally aware landscapes benefiting human and ecosystem health over time. Proof's expertise helps project teams work with natural systems

and processes to lower costs while improving ecological and aesthetic outcomes.

Kimley-Horn is a leading consultant in the planning of regional and statewide transportation systems, corridor studies, transportation demand management programs, transportation impact assessments, and civil engineering. Kimley-Horn understands the importance of planning and designing for all travel modes and is committed to providing effective plans that encourage healthy communities, economic vibrancy, and sustainable transportation. Having previously contributed to the Lake Monona Waterfront Preliminary Report, Kimley-Horn brings profound insight to the PORT Team through the complexity, historical legacy, and latent potential of the Lake Monona Waterfront.

Thornton Tomasetti optimizes the design and performance of structures, materials and systems for projects of every size and level of complexity. Through a collaborative culture, an innovation mindset, a passion for problem-solving, and an expertise that spans disciplines, Thornton Tomasetti delivers innovative structural solutions for spaces that are unique, unforgettable, inspiring, and iconic.

We are certain that no other team will bring this same combination of talents — vision combined with local know-how — to the *Lake Monona Waterfront Design Challenge*. In this statement of qualifications you will see examples of our team's work that **connects** communities to their underutilized assets; **transforms** challenging landscapes into spaces of civic collection and environmental performance; **reimagines** and remakes familiar urban elements in new ways; and **crafts** places that are beautiful, meaningful, memorable, and useful. The PORT Team is committed to approaching the *Lake Monona Waterfront Design Challenge* with fresh eyes, a creative spirit, and unmatched motivation to work with the City of Madison Parks Division, the Lake Monona Waterfront Ad-hoc Committee, and the City of Madison to deliver a project that exceeds any and all preconceptions of outcome.

We look forward to the opportunity to tell you more about our team and our approach. If you have any questions, please do reach out. Otherwise, thank you for your attention in this matter.

Sincerely,



Christopher Marcinkoski, AIA, ALSA (affil.), FAAR
PORT Partner-in-Charge



Form A: Signature Affidavit

RFQ #:10082-0-2022-BP

This form must be returned with your response.

In signing Proposals, we certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise take any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit Proposals, that Proposals have been independently arrived at, without collusion with any other Proposers, competitor or potential competitor; that Proposals have not been knowingly disclosed prior to the opening of Proposals to any other Proposers or competitor; that the above statement is accurate under penalty of perjury.

The undersigned, submitting this Proposals, hereby agrees with all the terms, conditions, and specifications required by the City in this Request for Proposals, declares that the attached Proposals and pricing are in conformity therewith, and attests to the truthfulness of all submissions in response to this solicitation.

Proposers shall provide the information requested below. Include the legal name of the Proposers and signature of the person(s) legally authorized to bind the Proposers to a contract.

PORT
COMPANY NAME

SIGNATURE

4.26.2022
DATE

Lauren McPhillips
PRINT NAME OF PERSON SIGNING



Form B: Receipt of Forms and Submittal Checklist

RFP #:10082-0-2022-BP

This form must be returned with your response.

Proposers hereby acknowledge the receipt and/or submittal of the following forms:

Forms	Initial to Acknowledge SUBMITTAL	Initial to Acknowledge RECEIPT
RFQ Description of Services/Commodities	N/A	
Form A: Signature Affidavit	LMcP	LMcP
Form B: Receipt of Forms and Submittal Checklist	LMcP	LMcP
Form C: Proposer Profile	LMcP	LMcP
Form D: Fee Proposal	N/A	N/A
Form E: References	LMcP	LMcP
Appendix A: Standard Terms & Conditions	N/A	
Appendix B: Contract for Purchase of Services	N/A	
Addendum #	N/A	
Addendum #	N/A	
Addendum #	N/A	
Addendum #	N/A	

City of Madison Parks Division
VENDOR NAME

PORT
COMPANY NAME



Form C: Proposer Profile

RFQ #:10082-0-2022-BP

This form must be returned with your response.

COMPANY INFORMATION

COMPANY NAME (Make sure to use your complete, legal company name.) PORT Architecture and Urbanism, LLC (doing business as PORT)			
FEIN 45-5254410	(If FEIN is not applicable, SSN collected upon award)		
CONTACT NAME (Able to answer questions about proposal.) Lauren McPhillips	TITLE Marketing & Business Development Manager		
TELEPHONE NUMBER 219.765.6782	FAX NUMBER		
EMAIL mcphillips@porturbanism.com			
ADDRESS 53 W Jackson Blvd, Suite 830	CITY Chicago	STATE IL	ZIP 60604

AFFIRMATIVE ACTION CONTACT

The successful Contractor, who employs more than 15 employees and whose aggregate annual business with the City for the calendar year, in which the contract takes effect, is more than twenty-five thousand dollars (\$25,000), will be required to comply with the City of Madison Affirmative Action Ordinance, Section 39.02(9) within thirty (30) days of award of contract.

CONTACT NAME Andrew Moddrell	TITLE Founding Partner		
TELEPHONE NUMBER 312.519.1103	FAX NUMBER		
EMAIL moddrell@porturbanism.com			
ADDRESS 53 W Jackson Blvd, Suite 830	CITY Chicago	STATE IL	ZIP 60604

ORDERS/BILLING CONTACT

Address where City purchase orders/contracts are to be mailed and person the department contacts concerning orders and billing.

CONTACT NAME Andrew Moddrell	TITLE Founding Partner		
TELEPHONE NUMBER 312.519.1103	FAX NUMBER		
EMAIL moddrell@porturbanism.com			
ADDRESS 53 W Jackson Blvd, Suite 830	CITY Chicago	STATE IL	ZIP 60604

LOCAL VENDOR STATUS

The City of Madison has adopted a local preference purchasing policy granting a scoring preference to local suppliers. Only suppliers registered as of the bid's due date will receive preference. Learn more and register at the City of Madison website.

CHECK ONLY ONE:

Yes, we are a local vendor **and** have registered on the City of Madison website under the following category: _____ www.cityofmadison.com/business/localPurchasing

No, we are not a local vendor or have not registered.



Form E: Proposer References

RFQ #:10082-0-2022-BP

This form must be returned with your response.

For Proposer: Provide company name, address, contact person and information on up to five (5) or more master plan projects with scope and requirements similar to the Lake Monona Waterfront.

REFERENCE #1 – CLIENT INFORMATION			
COMPANY NAME City of Bentonville Department of Parks and Recreation		CONTACT NAME David Wright	
ADDRESS 215 SW A Street	CITY Bentonville	STATE AR	ZIP 72712
TELEPHONE NUMBER 479.464.7275	FAX NUMBER		
EMAIL dwright@bentonvillear.com			
CONTRACT PERIOD December 2019 - Present	YEAR COMPLETED Ongoing	TOTAL COST TBD	
DESCRIPTION OF THE PERFORMED WORK			
Master Planning and Landscape Architectural design and implementation of Bentonville's new 110-acre 8th Street Gateway Park			

REFERENCE #2 – CLIENT INFORMATION			
COMPANY NAME Minnesota Zoological Gardens		CONTACT NAME Thomas Root	
ADDRESS 1300 Zoo Blvd	CITY Apple Valley	STATE MN	ZIP 55124
TELEPHONE NUMBER 952.431.9231	FAX NUMBER		
EMAIL thomas.root@state.mn.us			
CONTRACT PERIOD 2016 - 2023 (anticipated)	YEAR COMPLETED Ongoing	TOTAL COST TBD	
DESCRIPTION OF THE PERFORMED WORK			
Architecture: Feasibility study/conceptual framework, schematic design, construction documentation			

PORT Team: Ref. #1 - PORT; Ref. # 2 - Snow Kreilich Architects

COMPANY NAME



Form E: References

RFP #:10082-0-2022-BP

REFERENCE #3 – CLIENT INFORMATION			
COMPANY NAME Reed Hilderbrand Associates Inc.		CONTACT NAME Adrian Nial, Principal, ASLA	
ADDRESS 130 Bishop Allen Drive	CITY Cambridge	STATE MA	ZIP 02139
TELEPHONE NUMBER 617.972.7941	FAX NUMBER		
EMAIL adrian@reedhilderbrand.com			
CONTRACT PERIOD November 2013 to January 2014	YEAR COMPLETED 2014	TOTAL COST Unknown	
DESCRIPTION OF THE PERFORMED WORK For the Seaport District Master Plan in Boston, Pine & Swallow Environmental prepared the Planting Soils Specification and provided horticultural design guidance, including recommendations for stormwater management for the landscape Master Plan Documents for the largest urban real estate development in the City of Boston. The plan will transform 23 acres that includes 25% Green Space and miles of streetscape plantings with Seaport Square Park as the centerpiece.			

REFERENCE #4 – CLIENT INFORMATION			
COMPANY NAME City of Holland, Michigan		CONTACT NAME Keith Van Beek, City Manager	
ADDRESS 270 S. River Ave	CITY Holland	STATE MI	ZIP 49423
TELEPHONE NUMBER 616.355.1312	FAX NUMBER		
EMAIL k.vanbeek@cityofholland.com			
CONTRACT PERIOD June 2020 - Present	YEAR COMPLETED Ongoing	TOTAL COST \$130k	
DESCRIPTION OF THE PERFORMED WORK Waterfront Site Development Advisory Services			

PORT Team: Ref. #3 - Pine & Swallow Environmental; Ref. # 4 - SB Friedman

COMPANY NAME



Form E: References

RFP #:10082-0-2022-BP

REFERENCE #5 – CLIENT INFORMATION			
COMPANY NAME Village of Fox Point		CONTACT NAME Scott Brandmeier, PE, Director of Public Works	
ADDRESS 7200 N Santa Monica Blvd.	CITY Fox Point	STATE WI	ZIP 53217
TELEPHONE NUMBER 414.351.8900	FAX NUMBER		
EMAIL			
CONTRACT PERIOD 2021-Present	YEAR COMPLETED Ongoing	TOTAL COST \$216,869	
DESCRIPTION OF THE PERFORMED WORK Coastal Engineering and Modeling; Geotechnical Engineering; Revetment Design; Coastal Wave Analysis; Stakeholder Engagement			

PORT Team: Ref. #5 - Anchor QEA

COMPANY NAME

PORT is a Chicago- and Philadelphia-based public realm and urban design consultancy comprising landscape architects, urban designers, architects, and planners. Our practice model is based on a belief that the public realm represents the most essential spaces of the contemporary city. By helping communities to reimagine and shape these spaces, we are actively creating the venues in which communities evolve and progress.

PORT's work has an established national and growing international presence with recent work in Philadelphia, Chicago, Boston, Knoxville, Columbia, MD, New York, Cleveland, Kansas City, Louisville, Denver, and Los Angeles, as well as in Irapuato, Mexico and Kiel, Germany. PORT is currently leading both the landscape and architectural design of a new 110-acre central park for the City of Bentonville, Arkansas as part of the Walton Family Foundation Design Excellence Program.

PORT's work has been repeatedly recognized by the American Society of Landscape Architects and the American Institute of Architects, garnering no fewer than eighteen chapter awards of honor or merit since 2018. In February of 2020, PORT was recognized with an Emerging Voices Award from the Architectural League of New York, given to a North American design practice with a significant body of realized work on a trajectory to meaningfully influence the future of their field.

More than thirty-five of PORT's current and recent clients are municipalities, public agencies, foundations and not-for-profits. As a result, all of our projects entail the active consideration of limited funding; shifting politics; sustained outreach and engagement; unpredictable agency and council approvals; and vocal communities and stakeholders with divergent opinions. The nimble negotiation of these realities allows us to deliver the highest caliber spaces of public collection regardless of budget or complexities of context.

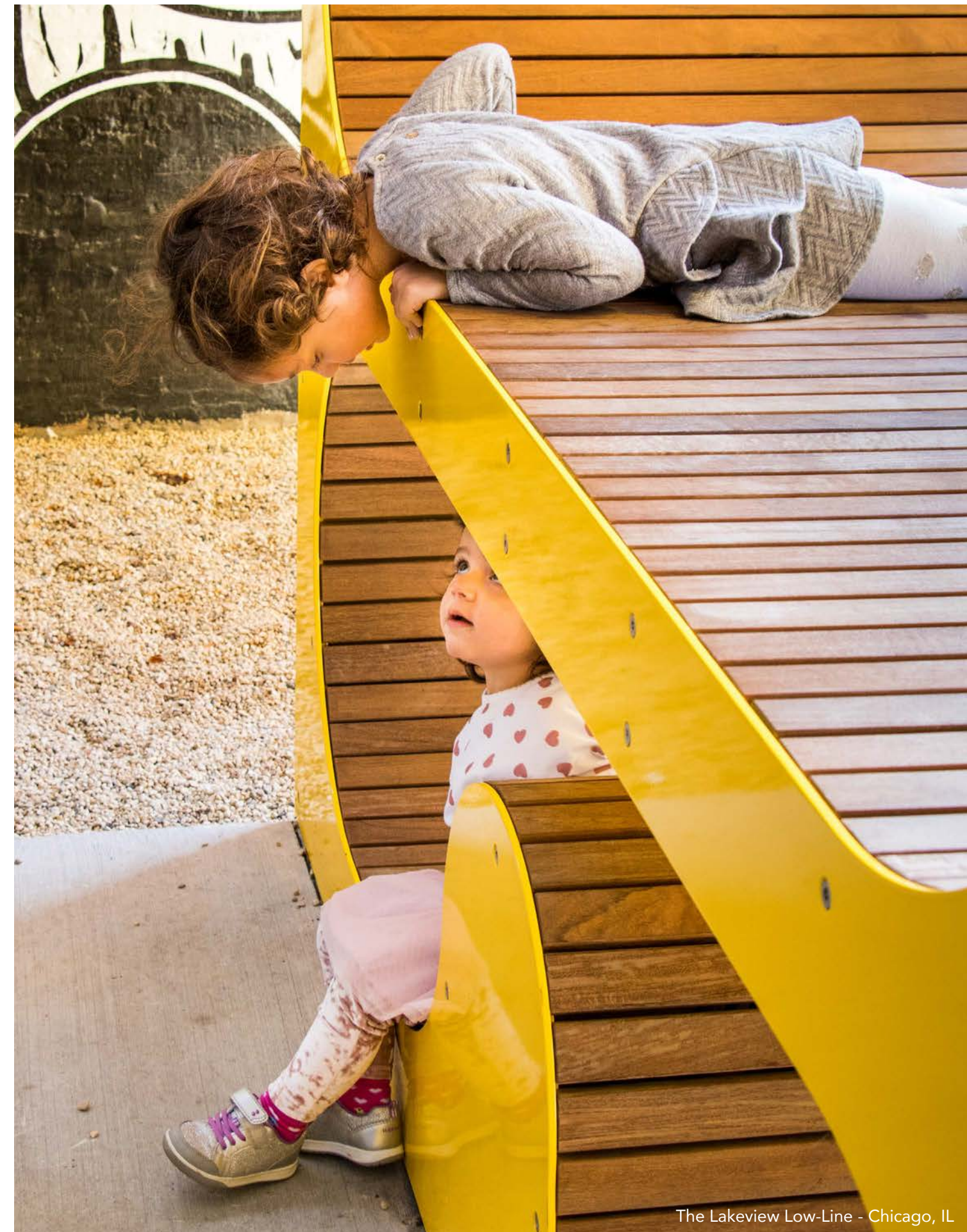
PORT Architecture and Urbanism, LLC (doing business as PORT) was established in 2012 and has offices in Chicago, IL and Philadelphia, PA.

Chicago Office Location:

PORT Chicago
53 W. Jackson Blvd. Suite 830
Chicago, IL 60604

Philadelphia Office Location:

PORT Philadelphia
1315 Walnut St. Suite 1108
Philadelphia, PA 19107



The Lakeview Low-Line - Chicago, IL

PORT PROJECT + CLIENT LIST

2022	*Invest S/W *AKA Hotel Alexandria *Lakefront North District-Wide Public Realm Framework	Chicago Dept. of Cultural Affairs & Special Events AKA Hotels Howard Hughes Corporation
2021	*Northern Liberties 2nd Street Vision Plan w/ KieranTimberlake *Waterside Park Master Plan *Charlestown/Sullivan Square Redevelopment *Lakefront North Residential Public Realm	Northern Liberties Business Improvement District North Franklin Township/PA DCNR RISE/TRAX Howard Hughes Corporation
2020	Lorain Stoverworks Redevelopment Plan Armourdale Area Master Plan w/ MVRDV + Borderless Studio Cobbs Creek Nature Playground Crook Point Bascule Bridge Design Competition Malmi Lentoasemanpuisto Design Competition (invited) Interstadt Kiel Design Competition (invited)	The City of Lorain Ohio Govt. of Wyandotte Co./City of Kansas City, KS City of Philadelphia Rebuild Initiative City of Providence City of Helsinki City of Kiel
2019	*8th Street Gateway Park - Bentonville, AR Aspire Park - Clinton, TN Vision Irapuato - Irapuato, Mexico w/ Estudio Herreros + a 911 Woods Services Master Plan - Philadelphia, PA w/ KieranTimberlake McCormick Place Public Realm Program - Chicago, IL The Summer Oval+ 2019 - Philadelphia, PA Lakeview Street Furniture Program - Chicago, IL	Bentonville Parks and Recreation The Hollingsworth Foundation Private Foundation (Withheld) Woods Services Chicago Architecture Biennial Fairmount Park Conservancy The Lakeview Chamber of Commerce
2018	*Urban Wilderness Gateway Park - Knoxville, TN Library Lane Master Plan - Louisville, KY w/ Hodgson Douglas *Lincoln Avenue Under L - Chicago, IL The Summer Oval+ 2018 - Philadelphia, PA Logan-Lathrop Connector - Chicago, IL Chicago Park & Boulevard System 2050 - Chicago, IL	City of Knoxville City of Louisville The Lincoln Park Chamber of Commerce Fairmount Park Conservancy The Active Transportation Alliance The Chicago Architecture Center, Exhibition
2017	*Frankford Avenue Connector - Philadelphia, PA RPA 4th Regional Plan: The Highlands -w/ RANGE Northcenter Town Square - Chicago, IL *Lakeview Low-Line - Chicago, IL Jardin de Metis / Reford Gardens - Montreal, Canada The Summer Oval+ 2017 - Philadelphia, PA Activate - Chicago, IL	Delaware River Waterfront Corporation New York Regional Planning Association The Northcenter Chamber of Commerce The Lakeview Chamber of Commerce International Garden Festival Competition The Fairmount Park Conservancy The Chicago Loop Alliance
2016	606-Finkl Connector - Chicago, IL *Augusta Quarry Lake - Knoxville, TN w/ Sanders Pace Arch. Archeworks Wa\$ted Market - Chicago, IL Jardin de Metis / Reford Gardens - Montreal, Canada Knoxville Battlefield Loop - Knoxville, TN w/ Sanders Pace Arch. *Main Avenue Bridge Underpass - Cleveland, OH	The Active Transportation Alliance The Aslan Foundation / City of Knoxville Archeworks, Urban Research Initiative International Garden Festival Competition The Aslan Foundation The Downtown Cleveland Alliance
2015	The Big Shift - Chicago, IL Dorchester Arts District + Civic Commons - Chicago, IL Paco Sanchez Park - Denver, CO w/ Dig Studio Goose Island Vision - Chicago, IL Resonation Room - Chicago, IL Chicago Ideas Week Thick City Pavilion - Chicago, IL	Chicago Architecture Biennial, Exhibition Theaster Gates Studio Denver Dept. of Parks and Recreation R^2 Companies The University of Chicago Place Lab Chicago Ideas Week
2014	Obama Presidential Center - Chicago, IL City Deck at City-County Building - Indianapolis, IN Cook County Hospital - Chicago, IL w/ Perkins + Will Greater Calumet Region Vision - Chicago, IL w/ SOM	University of Illinois-Chicago The City of Indianapolis, Design Competition Chicago Central Area Committee Openlands
2013	City Loop at City Park - Denver, CO w/ Independent Architecture LA River Greenway 2020 - Los Angeles, CA	Denver Dept. of Parks and Recreation River LA

*active project

PORT HONORS + AWARDS

2022	ASLA Merit Award	8th Street Gateway Park Master Plan ASLA Pennsylvania/Delaware Chapter
2021	ASLA Honor Award Invited Participant Finalist	Paco Sanchez Park ASLA Colorado Chapter Chicago Architecture Biennial City of Chicago Department of Cultural Affairs Crook Point Bascule Bridge Design Competition City of Providence Planning and Dev.
2020	Awarded AIA Honor Award AIA Merit Award Invited Participant	Emerging Voices 2020 The Architectural League of New York 8th Street Gateway Park Master Plan AIA Philadelphia Chapter The Lakeview Low-Line Phase 1 AIA Philadelphia Chapter Interstadt Kiel Design Competition City of Kiel, Germany
2019	Selected Participant AIA Merit Award AIA Merit Award AIA Merit Award Invited Participant AIA Merit Award ASLA Merit Award ASLA Honor Award ASLA Burnham Award ASLA Merit Award ASLA Merit Award First Prize	Northwest Arkansas Design Excellence Program The Walton Family Foundation The Oval+ 2017-2019 AIA Philadelphia Chapter Urban Wilderness Gateway Park Master Plan AIA Philadelphia Chapter The Lakeview Low-Line Phase 1 AIA Pennsylvania Chapter Chicago Architecture Biennial City of Chicago Department of Cultural Affairs The Lakeview Low-Line Phase 1 AIA Chicago Chapter Small Projects Awards Urban Wilderness Gateway Framework Plan ASLA Tennessee Chapter Urban Wilderness Gateway Community Event ASLA Tennessee Chapter Urban Wilderness Gateway Framework Plan ASLA Illinois Chapter The Lakeview Low-Line Phase 1 ASLA Illinois Chapter Urban Wilderness Gateway Community Event ASLA Illinois Chapter Aspire Park Design Competition Aspire/Hollingsworth Foundation
2018	AIA Merit Award AIA Merit Award Invited Participant ASLA Merit Award Finalist AIA Merit Award AIA Merit Award Invited Submission	The Oval+ 2017 and Oval+ 2018 AIA Pennsylvania Chapter Highlands Corridor, 4th Regional Plan for New York AIA Philadelphia Chapter Chicago 2050 Exhibition Chicago Architecture Center The Knoxville Battlefield Loop ASLA Tennessee Chapter The Oval+ 2017 Philadelphia ULI James Rouse Award for Excellence The Resonation Room AIA Chicago Chapter Small Projects Awards The Oval+ 2017 AIA Chicago Chapter Small Projects Awards 2019 MoMA PS1 Young Architects Program The New York Museum of Modern Art
2017	Awarded Participant (1 of 4) Invited Submission	Fourth Regional Plan Corridors Competition Regional Plan Association of New York 2018 MoMA PS1 Young Architects Program The New York Museum of Modern Art
2016	Honorable Mention Exhibitor/Participant	Jardins de Metis International Garden Festival Jardins de Métis, Montreal Chicago Urban Futures Exhibition The Chicago Architecture Foundation
2015	First Prize Artist in Residence Invited Participant Permanent Collection	Cleveland Main Avenue Bridge Competition Downtown Cleveland Alliance Chicago Ideas Week Chicago Ideas Week + City of Chicago 2015 Chicago Architecture Biennial City of Chicago Department of Cultural Affairs The Big Shift Model from "Chicago-isms" Exhibition The Art Institute of Chicago
2014	Finalist AIA Merit Award Exhibitor Awarded	Indianapolis City County Building Plaza Design Competition City of Indianapolis City Loop AIA Colorado Chapter "Chicago-isms" Exhibition The Art Institute of Chicago Emerging Visions Prize Chicago Architecture Club & The Graham Foundation
2013	First Prize	Denver City Park Design Competition Denver Department of Parks and Recreation

TEAM CAPACITY

The PORT Team and the personnel identified in this statement of qualifications have the capacity to perform the services outlined in the RFQ and proposed within our approach. This staffing anticipates workloads during the proposed project period as outlined herein and will have the capacity to deliver the work at the highest quality and on schedule.

CLIENT EXPERIENCE

PORT leadership is based in Chicago — just a short drive to Madison. The PORT Team will be steadily available to lead and attend in-person or virtual meetings, site visits, and any community events during the master plan development, the public review and engagement, and the master plan refinement periods of the *Lake Monona Waterfront Design Challenge*. The PORT Team anticipates visits, site visits, and coordination with the City and the Lake Monona Waterfront Ad-hoc Committee.

As a design practice, we have nothing more valuable than our reputation. As a matter of course, we consistently over-deliver; diligently chase the moving target; and happily adapt on the fly. We are a nimble service provider that treats every project, large or small, with the same level of commitment, care and attention to detail others might only reserve for their most valuable client. In this way, we are as committed to our projects' success as our clients are.

Collectively, PORT and our partners have decades of experience delivering on large-scale, complex public projects for municipal agencies across the country. We understand that to do this work well, we must assemble and collate vast amounts of information—technical, site-related, community-driven, etc.—and synthesize this material into a legible strategy that is compelling enough to build consensus, momentum and excitement amongst communities, stakeholders and public leaders. Our working process is open, iterative and flexible in approach in order to accommodate a project's complex needs. Throughout the design and planning process, we are constantly endeavoring to sharpen both specificity and vision.

While our offices are based in Chicago and Philadelphia, PORT successfully leads projects across the country. Our work in places as diverse as Boston and Louisville, Columbia and Knoxville, Denver and Cleveland, Los Angeles and New York is rooted in amplifying the inherent qualities of a place and synthesizing them with the desires and ambitions of the community at hand. Our success is not only attributed to the accessibility, dependability, and capacity of our team, but to the long-term relationships that we build with our clients. Our clients are unique as our projects are.

City of Madison Parks Division



PORT PERSONNEL

Education

Master of Architecture
Yale University School of Architecture
New Haven, CT

Bachelor of Architecture
The Pennsylvania State University
University Park, PA

Registrations

Registered Architect:
Pennsylvania #RA407785

Academic Appointments

University of Pennsylvania
School of Design Philadelphia, PA
Associate Professor of Landscape
Architecture and Urban Design (with
tenure), 2016-Present

Assistant Professor of Landscape
Architecture and Urban Design, 2010-
2016

2015-16 American Academy in Rome
Fellow, Landscape Architecture

Professional Experience

PORT
Philadelphia, PA
Partner, 2012-Present

James Corner Field Operations
New York, NY
Senior Associate, 2007-2010
Associate, 2006-2007
Project Designer, 2004-2005

CHRISTOPHER MARCINKOSKI, AIA, ASLA (AFFIL.), FAAR

Partner in Charge with over 18 Years of Experience

Christopher is a founding partner of PORT, and serves as the creative director of the office's public realm and urban design projects including the Frankford Avenue Connector in Fishtown, Philadelphia; The Oval at Eakins Oval in Philadelphia; Aspire Park in Clinton, TN; and the Regional Plan Association of New York's Fourth Regional Plan.

Current projects include development of a vision plan for a new 1.8-acre woonerf/public square in the Northern Liberties neighborhood of Philadelphia; conservation planning and design of a new 82-acre park on the site of a former water company reservoir lands outside Washington, Pennsylvania; and design development of a new 109-acre Gateway Park for the City of Bentonville, Arkansas as part of the Walton Family Foundation Design Excellence program. Christopher is also leading public realm and urban design services for major urban redevelopment projects in Boston, Massachusetts and Columbia, Maryland.

In addition to his work at PORT, Christopher is also an Associate Professor of Landscape Architecture and Urban Design (with tenure) at the University of Pennsylvania in Philadelphia. His work has been recognized by the Van Alen Institute, Bauhaus Dessau Foundation, Graham Foundation, Skidmore Owings and Merrill Foundation, American Institute of Architects, Chicago Architecture Club, Chicago Ideas Week and, the American Academy in Rome, which awarded him the 2015 Rome Prize in Landscape Architecture, and, most recently, the Architectural League of New York Emerging Voices Award in 2020.

Prior to establishing PORT, Christopher was a Senior Associate at James Corner Field Operations (JCFO) in New York City where he led that office's master planning and urban design projects from 2006 to 2010. Christopher's design and planning portfolio during this time included the winning competition entry, master plan, and public approval for Shelby Farms Park, transforming a 4,500-acre former penal farm into one of the world's largest urban parks in Memphis; securing the commission for and leading the concept phase for the redesign of Public Square in Cleveland; and leading the winning competition entry for the master plan of the Qianhai district of Shenzhen, initiating JCFO's first project in China.

PORT PERSONNEL

Education

Master of Architecture
Yale University School of Architecture
New Haven, CT

Bachelor of Architecture,
University of Kansas
Lawrence, KS

Registrations

Registered Architect:
Illinois #001020775
Arkansas #10001

Academic Appointments

University of Kansas School of
Architecture and Design
Lawrence, KS
Associate Professor, 2021-Present

University of Michigan Taubman
College of Architecture and Urban
Planning
Ann Arbor, MI
Eliel Saarinen Visiting Professor,
2015-2016
Visiting Assistant Professor, 2016-2019

University of Illinois Chicago
Chicago, IL
Clinical Assistant Professor, 2008-2018

Professional Experience

PORT
Chicago, IL
Partner, 2012-Present

Garofalo Architects
Chicago, IL
Architect + Project Manager, 2006-
2010

UrbanLab
Chicago, IL
Designer 2004-2006

ANDREW MODDRELL, AIA

Consulting Partner with over 18 Years of Experience

Andrew Moddrell is a founding partner of PORT. He has led a diverse range of public realm and urban design projects ranging in scale from a 600-acre master plan for the Knoxville Battlefield Loop to the 100-acre 8th St. Gateway Park in Bentonville, Arkansas for Bentonville Parks and Recreation and the Walton Family Foundation.

In addition to his work at PORT, Andrew teaches seminars and design studios related to contemporary issues of urbanism as an Associate Professor of Architecture University of Kansas School of Architecture.

Prior to teaching at The University of Kansas, Andrew was a Visiting Assistant Professor at the University of Michigan Taubman College of Architecture and Urban Planning and a Clinical Assistant Professor at The University of Illinois-Chicago School of Architecture.

He was part of the advisory panel for the National Endowment for the Arts inaugural "Our Town" initiative that awarded millions of dollars to be invested in communities that are supporting the arts as part of a community revitalization strategy.

Relevant Project Experience (Selected List)

8th Street Gateway Park, Bentonville, AR

Project Manager for the Master Plan and Schematic Design of a new 110 Acre Park in Northwest Arkansas.

Augusta Quarry Lake, Knoxville, TN

Project Manager for the Design and Construction of Phase 1 of a new public park in Knoxville, TN.

Urban Wilderness Gateway Master Plan, Knoxville, TN

Project Manager for the Master Plan for a new Gateway to Knoxville's Urban Wilderness

Urban Wilderness Gateway Phase 1, Knoxville, TN

Project Manager for the Design and Implementation of a the first phase of the UWG Master Plan, currently under construction.

Lakeview Low Line Phase 1, Chicago, IL

Project Manager for a new urban plaza and pedestrian way below the Chicago Transit Authority.

PORT PERSONNEL

Education

Master of Landscape Architecture
University of Pennsylvania
Philadelphia, PA

Bachelor of Landscape Architecture
University of Illinois
Urbana-Champaign, IL

Registrations

Licensed Landscape Architect:
Arkansas #10110
Illinois #157.001489
Maryland #4216
Tennessee #1165

Professional Experience

PORT
Philadelphia, PA
Senior Associate 2019 - Present
Associate, 2017-2019

Altamanu, Inc
Chicago
2010 - 2015

SEAN MCKAY, PLA, ASLA

Senior Associate
Project Manager with over 12 Years of Experience

Sean McKay is a Senior Associate at PORT and a licensed Landscape Architect, leading the design and implementation of a multitude of PORT's landscape and public realm focused projects. Sean brings over a decade of landscape architectural and construction administration experience to his projects. Prior to receiving his Master of Landscape Architecture, Sean was previously a Landscape Architect and Project Manager at Altamanu Inc. where he worked on a diverse range of award winning master plan and public landscape projects in the Chicagoland area.

Sean joined PORT following the completion of his Master of Landscape Architecture at the University of Pennsylvania (Penn) where he awarded the Laurie D. Olin Prize for excellence in the design of urban landscapes and an American Society of Landscape Architects Certificate of Honor. While at Penn, Sean also served on the production team for LA+ Interdisciplinary Journal of Landscape Architecture and as a research assistant for three Landscape Architecture Foundation Landscape Performance Series Case Study Briefs.

Relevant Project Experience (Selected List)

8th Street Gateway Park, Bentonville, AR

Project Manager for the Master Plan and Schematic Design of a new 110 Acre Park in Northwest Arkansas.

Augusta Quarry Lake

Project Manager for the Design and Construction of Phase 1 of a new public park in Knoxville, TN

Urban Wilderness Gateway Master Plan

Project Manager for the Master Plan for a new Gateway to Knoxville's Urban Wilderness

Urban Wilderness Gateway Phase 1, Knoxville, TN

Project Manager for the Design and Implementation of a the first phase of the UWG Master Plan, currently under construction.

Lakeview Low Line Phase 1, Chicago, IL

Project Manager for a new urban plaza and pedestrian way below the Chicago Transit Authority

Grant Park Skate and BMX Park, Chicago, IL*

Project Manager for the Design and Construction Administration of the skate park improvements at the south end of Grant Park. space in Charlestown, MA.

*Completed while at Altamanu, Inc.

PORT PERSONNEL

Education

Master of Landscape Architecture
University of Pennsylvania
Philadelphia, PA

Bachelor of Architecture
Minor: Planning, Sustainability
University of Arkansas
Fayetteville, AR

Registrations

Licensed Architect:
Pennsylvania #RA408974

Professional Affiliation

Fellow, Landscape Architecture
Foundation Fellowship for Innovation
and Leadership, 2019 - 2020

Academic Appointments

University of Pennsylvania
Philadelphia, PA
Lecturer: 2021, 2022

University of Delaware
Newark, DE
Adjunct Faculty, 2018-2019

Professional Experience

PORT
Philadelphia, PA
Associate 2020-Present
Designer, 2018-2020

DLANDstudio Architecture & Landscape
Architecture
Brooklyn, NY
Designer, 2014-2016

NICK JABS, RA

Associate
Project Landscape Architect with 8 Years of Experience

Nick is a Minnesota native, licensed architect and Associate at PORT. Since joining PORT, he has served as the Project Manager for Waterside Park and the Northern Liberties Streetscape Vision Plan and has also contributed to numerous PORT projects including 8th Street Gateway Master Plan, Oval PLUS; Frankford Avenue Connector; Library Lane Master Plan and Aspire Park.

In addition to his professional work, Nick has taught design studios focused on contemporary landscape architecture and urban design issues at the University of Pennsylvania and the University of Delaware. In 2019, Nick was named a Fellow to the Landscape Architecture Foundation's Fellowship for Innovation and Leadership. His research explores the past and present condition of Middle American Cities through the evolution and intersection of their working landscapes and public realm.

Relevant Project Experience (Partial List)

8th Street Gateway Park Master Plan, Bentonville, AR

Landscape Design and Planning for a new 110-acre public park featuring trails, public amenities, and ecological restoration.

Northern Liberties Streetscape Vision Plan, Philadelphia, PA

Project Manager for the Vision Plan for the commercial corridors through the rapidly growing Northern Liberties neighborhood in Philadelphia.

Waterside Park, Washington, PA

Project Manager on the Master Planning process for a 90-acre park that includes community engagement, zoning and implementation strategies.

Malmi Meadow Park, Helsinki, Finland

Designer and Planner for an international competition to develop an airport in Helsinki into a new urban park and mixed-use district.

Aspire Park, Clinton, TN

Project Designer for a 180 acre public park currently under construction.

Frankford Avenue Connector, Philadelphia, PA

Project Designer for a .4 mile installation and public realm improvement currently under construction.

PORT PERSONNEL

Education

Master of Landscape Architecture
University of Pennsylvania
Philadelphia, PA

Bachelor of Arts in Architecture
Washington University in St. Louis
St Louis, MO

Professional Affiliations

American Society of Landscape
Architecture (ASLA)

Academic Appointments

University of Pennsylvania
Philadelphia, PA
Lecturer: 2021

Boston Architectural College
Boston, MA
Lecturer: 2021

Professional Experience

PORT
Philadelphia, PA
Designer, 2019-Present

OLIN
Philadelphia, PA
Landscape Intern
2018

ANNA DARLING, ASSOC. ASLA

Designer
Project Landscape Architect with 4 Years of Experience

Anna is a Designer at PORT, where she has contributed to the designs of Aspire Park and Bentonville's 8th Street Gateway Park Master Plan & Public Outreach Portal. She has also led, or contributed to, numerous master planning, installation, and graphic design efforts for the firm.

Anna holds a Master's of Landscape Architecture and Urban Design from the University of Pennsylvania where she was awarded the Faculty Medal for Leadership and an ASLA Merit Award. Anna also holds a BA in Architecture from Washington University in St. Louis and served as an AmeriCorps member with Habitat for Humanity in New York City.

In Spring 2021, Anna was a guest studio lecturer at the University of Pennsylvania's Weitzman School of Design, where she led PORT's Green New Deal Studio focused on 'Designed Listening'.

Relevant Project Experience (Partial List)

8th Street Gateway Park Master Plan, Bentonville, AR
Designer for a 110-acre park Master Plan combining outdoor adventure play and recreation elements.

Aspire Park, Clinton, TN

Responsible for Playground Design, as well as general Landscape and Architectural Design of this 180-acre public park currently under construction.

Malmi Meadow Park, Helsinki, Finland

Designer for an international competition to develop an airport in Helsinki into a new urban park and mixed-use district.

Lakefront North Residential, Columbia, MD

Designer for the Landscape Design and Construction Documentation of public realm in an 11.5 acre urban redevelopment.

PORT PERSONNEL

Education

Bachelor of Landscape Architecture
Geography Minor
Pennsylvania State University
State College, PA

Professional Affiliations

American Society of Landscape
Architecture (ALSA)

Women in Landscape Architecture PPN

Sustainable Design + Development
PPN

Professional Experience

PORT
Philadelphia, PA
Designer, 2021-Present

Destination by Design
Boone, NC
Urban Designer & Planner, 2020-2021

Ground Control Collaborative
Ardmore, PA
Landscape Designer, 2019-2020

HESS Landscape Architects
Landsdale, PA
Landscape Architecture Intern, 2017

KARA SWANICK

Designer
Junior Project Designer with over 3 Years of Experience

Kara is a Pennsylvania native and Designer at PORT, where she works on the office's landscape architecture, urban design, and planning efforts.

Kara earned a Bachelor of Landscape Architecture from The Pennsylvania State University where she was awarded the Service + Leadership Award; the Pashek, Lonnett & Buerkle Scholarship; and the Humphry Repton Creative Writing Award. Kara's professional experience focuses on landscape architecture, urban planning and economic development.

Relevant Project Experience (Partial List)

Waterside Park, Washington, PA

A Project Designer on the Master Planning process for a 90-acre park that includes community engagement, zoning and implementation strategies.

Downtown Spindale, Spindale, NC*

A Project Designer and Planner for the Streetscape Design and Placemaking Brand Identity that included a 17 mile rail trail enhancement plan.

Bandera Farms, Greensboro, NC*

A Project Designer and Planner for a 115 acre recreational and equestrian park that included master planning, conservation planning, park and trail design, and community engagement. Project in collaboration with the Piedmont Land Conservancy.

Destination McDowell, McDowell County, NC*

A Project Designer and Planner for a county-wide capital infrastructure plan that included community engagement, economic development, and destination marketing to increase tourism.

* Completed while at Destination by Design

ABOUT SNOW KREILICH ARCHITECTS

Founded in 1995, Snow Kreilich Architects is a studio-based practice located in Minneapolis, MN. Our studio investigates architecture's capacity to transform experience. Using restraint and minimal means, we pursue the inspired moments architecture can bring to everyday use. Our design process begins with thorough research to support both the pragmatic and the intangible aspirations of our clients, leading to architecture that represents our clients' ethos and mission. Our work is grounded in the specifics of each site's historic, urban, cultural, and landscape context. Our architecture has a unique power to intensify our connection to a place, its history, its culture, and/or its natural systems. Through creative collaboration with our engineering and construction teams, we provide integrated building systems that achieve greater effectiveness, efficiency and durability. Synergies are achieved among building systems that advance our architecture's sustainable performance and incorporate creative systems that reduce energy dependence.

Snow Kreilich Relevant Experience: Panoway on Wayzata Bay — Wayzata, MN; Cowles Conservatory at the Minneapolis Sculpture Garden — Minneapolis, MN; Graco Park — Minneapolis, MN

ABOUT PINE & SWALLOW ENVIRONMENTAL

Pine & Swallow Environmental (P&S) provides science-based technical soils consulting to public and private clients for the design and construction of landscape development projects large and small worldwide. For over 35 years, with a unique combination of experience and expertise in environmental, civil, and geotechnical engineering, horticulture, soil chemistry, hydrogeology, drainage and soil design, P&S has provided the skills required for successful, sustainable creation or rehabilitation of landscape spaces of all kinds. During a project's Construction Phase, P&S provides construction observation, submittal review and approval, and final project evaluation because with strong Construction Phase involvement, the soil environment is optimized to provide the client with green spaces that flourish.

Pine & Swallow Relevant Experience: Shelby Farms Park, Memphis, TN; Bates College, Lake Andrews Renovation, Lewiston, ME; Fresh Pond Park, Cambridge, MA

ABOUT SB FRIEDMAN

SB Friedman Development Advisors, LLC (SB Friedman) assists in the planning and implementation of complex real estate development projects. Now in its 32nd year of operation, SB Friedman's mission is to help its clients create equitable, resilient and well-designed communities through the practice of real estate economics, development finance and urban planning. The team's extensive experience in working on development projects from the vision to the deal allows them to guide "fact-based visioning" processes that lead to successful development outcomes. The firm has been recognized as one of the few advisory firms that truly understands both the public and private perspectives on real estate-related issues. SB Friedman provides a full suite of development advisory services, including real estate market analyses, TIF projections and district eligibility studies, developer solicitation and negotiation support, and the review and structuring of public-private partnerships for development.

SB Friedman Relevant Experience: Lakefront Development Advisory Services — Cleveland, OH ; Waterfront Site Development Advisory Services — Holland, MI; River Edge Park Master and Financing Plans — Aurora, IL; Bronzeville Lakefront Development Strategy & Implementation — Chicago, IL; Downtown and Riverfront Crossings Master Plan — Iowa City, IA; Redevelopment Plan and Implementation for Playland Park Site — Council Bluffs, IA; Downtown Davenport Master Plan — Davenport, IA

ABOUT ANCHOR QEA

Anchor QEA is a national environmental science and engineering firm that specializes in aquatic, shoreline, and water resource projects, including coastal engineering and flood risk management. With a strong foundation of shared values, Wisconsin-based FreshWater Engineering merged with Anchor QEA in June 2021 to expand our collective water resources, coastal engineering, and shoreline restoration work into the Great Lakes and Midwest regions.

Anchor QEA has extensive experience evaluating and modeling the nearshore marine environment, developing and implementing shoreline and coastal protection projects, designing and constructing coastal restoration projects, and providing support to waterfront and port development projects. We have a reputation

of working successfully with project partners to meet both habitat and client needs and objectives with our designs. Anchor QEA engineers, planners, and scientists provide the full range of expertise to support a comprehensive approach to efficiently improve the resiliency of coastal communities. We have also been involved in aquatic construction projects totaling more than \$1 billion over the last 5 years.

Anchor QEA Relevant Experience: Fox Point Coastal Resiliency — Fox Point, WI; Blind Sodus Bay Resiliency Project — Lake Ontario, NY; Crescent Beach Resiliency Project — Lake Ontario, NY; Fairhaven West Barrier Bar Park Project — Lake Ontario, NY; Little Beaver Island Shoreline Coastal and Wetland Habitat Improvement — Niagara River, NY; Hancock County Marsh Living Shoreline Design — Hancock County, MS; Hika Bay Harbor of Refuge Design — Cleveland, WI; Shooting Island Living Shoreline Breakwater — Ocean City, NJ; Selkirk Shores State Park Pier Rehabilitation — Lake Ontario, NY; Illinois Beach State Park Coastal Habitat Protection — Lake Michigan, IL; Dagger Point Coastal and Marine Habitat Protection and Restoration, CBB&EP — Austwell, TX; Nueces Delta Shoreline Protection Phase I Design, GLO — Nueces Bay, TX; Village of Clayton Marina and Dock Repairs — Clayton, NY

ABOUT PROOF PROJECTS

Proof Projects, LLC (Proof) was founded in 2020 to offer services to communities in the Great Lakes and Chesapeake Bay regions that can benefit from the approach developed as part of the Healthy Port Futures project, leveraging sediment-based coastal design situated within specific cultural landscape contexts. Our works have been awarded nationally and internationally by the American Society of Landscape Architects, the Western Dredging Association, and the American Academy in Rome, among others. Together we have over forty years experience in the private sector and academia researching and designing public space, infrastructure, and ecology in coastlines, ports, forest lands, and riparian landscapes. Our services help clients achieve successful projects that create meaningful and culturally aware landscapes benefiting human and ecosystem health over time. The expertise we bring helps project teams work with natural systems and processes to lower costs while improving ecological and aesthetic outcomes. We offer research and design services to industry, public agencies, community organizations, and academic partners to deliver innovative approaches, produce new knowledge, and help develop, implement, monitor, and quantify the impacts of projects.

Proof Relevant Experience: Coastal Protection/Habitat Creation Reef -- Illinois Beach State Park, IL; Community Sediment Management / Monitoring Plan -- Port Bay, New York.

ABOUT KIMLEY-HORN

Kimley-Horn (KH) is a full-service engineering and planning firm comprising transportation planners; civil, structural, electrical, and roadway engineers; environmental professionals; and construction phase experts. Our national firm is home to more than 5,500 staff in 100+ offices across the United States. We are organized as one company with multiple locations and our organization structure is focused on providing high-quality client service. Most recently, in 2022 Kimley-Horn was ranked 22 on Fortune's 100 Best Companies to Work For list. Kimley-Horn brings you the resources of a large national firm combined with the understanding of a small local organization.

Kimley-Horn Relevant Experience: Lake Monona Waterfront Preliminary Report — Madison, WI; Campus Master Plan 2015 — Madison, WI; South Capitol Transit-Oriented Development District Planning Study — Madison, WI; Madison Yards — Madison, WI

ABOUT THORNTON TOMASETTI

Thornton Tomasetti (TT) optimizes the design and performance of structures, materials and systems for projects of every size and level of complexity. An employee-owned organization of engineers, scientists, architects and other professionals collaborating from offices worldwide, we support clients by drawing on the diverse expertise of our integrated practices. We are committed to be a sustainable and enduring organization and the global driver of innovation in our industry.

Thornton Tomasetti Relevant Experience: Tom Lee Park — Memphis, TN; St. Pete Pier — St. Petersburg, FL; Alnoba — Kensington, NH; Boston Tea Party Ship and Museum — Cambridge, MA; Chicago Park District Headquarters — Chicago, IL; Public Square and Gardens at Hudson Yards — New York, NY; Myriad Botanical Gardens — Oklahoma City, OK; Franklin D. Roosevelt Four Freedoms Park — New York, NY; Katherine Ward Burg Memorial Garden — St. Louis, MO

SNOW KREILICH PERSONNEL

Education

Master of Architecture,
University of Minnesota

Bachelor of Arts, Architecture,
University of Minnesota

Registrations

Licensed Architect: CT, MI, MN, NY,
WI; NCARB Certified

Awards + Recognition

2018 AIA Architecture Firm Award

2013 Minneapolis/St. Paul Business
Journal, 40 Under 40 Award Recipient

2011 AIA Minnesota Presidential
Citation for Leadership in Videotect

2010 AIA National Young Architect
Award Winner

2008 AIA Minnesota Young Architect
Award Winner

2007 Emerging Voices Selected
Exhibitor, AIA National Committee on
Design

2003 Ralph Rapson Traveling Study
Fellowship Recipient

2002 International Head House and
Sack House Competition | Winning
Entry

2002 La Cabane Ideale Festival des
Jardins de Metis, Winning Entry &
Exhibit

MATTHEW KREILICH, FAIA, LEED AP

Design Principal-in-Charge
28 Years of Experience

As design principal and partner of Snow Kreilich Architects, Matthew Kreilich is the heart of the firm's collaborative working model, taking an active role in both strategic and detail design resolutions in the studio. His passion lies in the belief that in addition to solving complex and pragmatic needs of a client's program, design has the transformative power to enhance our everyday life experiences. Matthew provides design leadership and insight to all of the firm's projects, and acts as the project designer on some of the studios' most significant projects.

Matthew's design leadership and experience continue to be recognized both locally and nationally. Matt was recently honored with the AIA National Young Architect Award for outstanding design leadership and locally recognized with the Minneapolis/St. Paul's Business Journal's 40 under 40 Award. His work has received numerous Awards including MN AIA Honor Awards, the National AIA Honor Award, Progressive Architecture Award and the Holcim Award. Matthew was also the recipient of the prestigious Ralph Rapson Traveling Study Fellowship.

Relevant Project Experience (Partial List)**Panoway on Wayzata Bay | Wayzata, MN**

This multi-phased revitalization of Wayzata's lakefront transformed the public shoreline on Lake Minnetonka to be more pedestrian and bicycle friendly, with a signature urban park replacing the Broadway Municipal parking lot.

Minnesota Zoo Treetop Trail | Apple Valley, MN

The existing monorail infrastructure at the Zoo is to be transformed into an elevated walkway spanning 1.25 miles with shading structures, bird blinds, and five access points to enhance the user experience.

Cowles Conservatory Renovation at the Minneapolis Sculpture Garden | Minneapolis, MN

The Cowles Conservatory, built almost 30 years ago, required a radical makeover to accommodate new works or art and community events. The project engaged issues of current strategies for artistic production and exhibition, environmental sustainability, urban connectivity, and city parks operations.

Graco Park | Minneapolis, MN

Graco Park is designed to acknowledge and celebrate the river and Hall's Island. The design reflects patterns of the river to inform spaces and landscape types. Five main features define the park: two broad tree-lined promenades, a river walk, a flexible green, and a building/plaza zone.

SNOW KREILICH PERSONNEL

Education

Master in Architecture,
Harvard University

Bachelor of Science in Economics,
University of Pennsylvania

Bachelor of Arts,
University of Pennsylvania

Registrations

Licensed Architect: MN

Academic Service

2022 Design Justice Search
Committee, University of Minnesota
School of Architecture

2017–2016, Adjunct Assistant Professor,
University of Minnesota School of
Architecture

Professional Service

2022 AIA Strategic Council - Minnesota
Representative

2019-2022 MSP NOMA Board Advisor

2020 AIA Minnesota President

Awards + Recognition

2016 AIA National Young Architect
Award

2016 Leadership Twin Cities Participant

2014 AIA Minnesota Young Architect
Award

KAREN LU, AIA, NOMA

Senior Project Architect + Design Manager
23 Years of Experience

Karen's love of architecture is rooted in its complexity – the successful combination of multiple contexts, different points of view, and the relationship of the overall goal or idea to its many supporting details. Karen's passion for making strategic connections and building meaningful relationships inspires her integrative approach to design thinking, and her desire to promote the strengths and expand the possibilities of the profession.

Karen's commitment to design excellence and to positively impacting future generations of architecture professionals and global citizens is evident in her professional work and service to the AIA and her community. She has led and collaborated on projects that have won National AIA Honor Awards, AIA/COTE Top Ten Green Project Awards, AIA Minnesota Honor Awards, and Progressive Architecture Awards. Karen has been recognized for her leadership both locally and nationally with the AIA Minnesota and National AIA Young Architect Awards.

Relevant Project Experience**Forest Park Steinberg Pavilion Area Project | St. Louis, MO**

Forest Park Forever, along with the City of St. Louis, and the design team are reimagining the Steinberg Pavilion and Rink area as a place for all-season fun that is equitably, environmentally, and economically sustainable and inspires a variety of structured and unstructured activities that are welcoming to all. The project is a renovation of and addition to the beloved mid-century modern Steinberg Pavilion located on the eastern end of Forest Park.

Lakewood Cemetery | Minneapolis, MN

Lakewood's desire to create a more relevant, accessible, and inviting experience led to the holistic re-assessment of the greater site and the design of a new Welcome Center. The master plan seeks to improve site porosity east-west and north-south, and takes into account phasing of multiple building and/or restoration projects. The unique context of the historic lawn cemetery and existing architecture necessitates the integration of landscape and building, and a careful balance of tradition with innovation. The new Welcome Center is being designed to net zero energy in alignment with Lakewood's value of stewardship.

Salt City Market | Syracuse, NY

Salt City Market is a mixed-use development located at the southern end of downtown Syracuse, New York. Located at the convergence of three distinct neighborhoods, the site was most recently a parking lot left vacant after fires destroyed previous buildings at several points in history. The Allyn Foundation envisioned a new landmark on this important site that would celebrate the diversity of Syracuse by bringing different cultures and people together through food.

SNOW KREILICH PERSONNEL

Education

Master of Architecture,
Harvard Graduate School of Design

Bachelor of Science, Architecture
University of Minnesota

Bachelor of Art, Art,
University of Minnesota

Registrations

Licensed Architect: MN

Academic Service

2016-present, Adjunct Faculty,
University of Minnesota

2015-2016, Adjunct Faculty, University
of Houston

2012 Design Instructor, Harvard
Graduate School of Design

Awards + Recognition

2014 Zagreb Think-Space Competition,
Honorable Mention

2013 Cleveland Urban Design
Collaborative Coldscapes Competition,
First Place

2012 Chicago Prize – Second Place

2011 Penny White Travel Fellowship

2008 KRob Delineation Competition
Finalist

NATALYA EGON, AIA, NOMA

Architect
11 Years of Experience

Natalya comes to Snow Kreilich with a dedication to crafting the narrative focus of a project from beginning to end. This includes a keen commitment to linking project research with concept design as well as shaping the graphic representation necessary to bring together all aspects of a project. Her diverse project experiences range from several years of working on museums/institutional buildings to mixed-use residential towers to small contemporary renovations of 19th century houses in Texas.

Her approach to architecture intends to simultaneously represent the large and small scale components of design – history, infrastructure, natural phenomena, light, function, landscape – and how those components impact individuals and urban environments. Her ideas-based work has received recognition in several design competitions and has been exhibited and published internationally. Natalya commits a significant portion of her time to academia, serving as an adjunct studio instructor and mentor at the University of Minnesota. In addition, she has also served as a guest critic at Virginia Tech, Dunwoody College, Rice University, University of Texas, Illinois Institute of Technology and Harvard Graduate School of Design. Natalya worked in Houston, Chicago, and New York before coming back to Minnesota.

Relevant Project Experience (Partial List)

Panoway on Wayzata Bay | Wayzata, MN

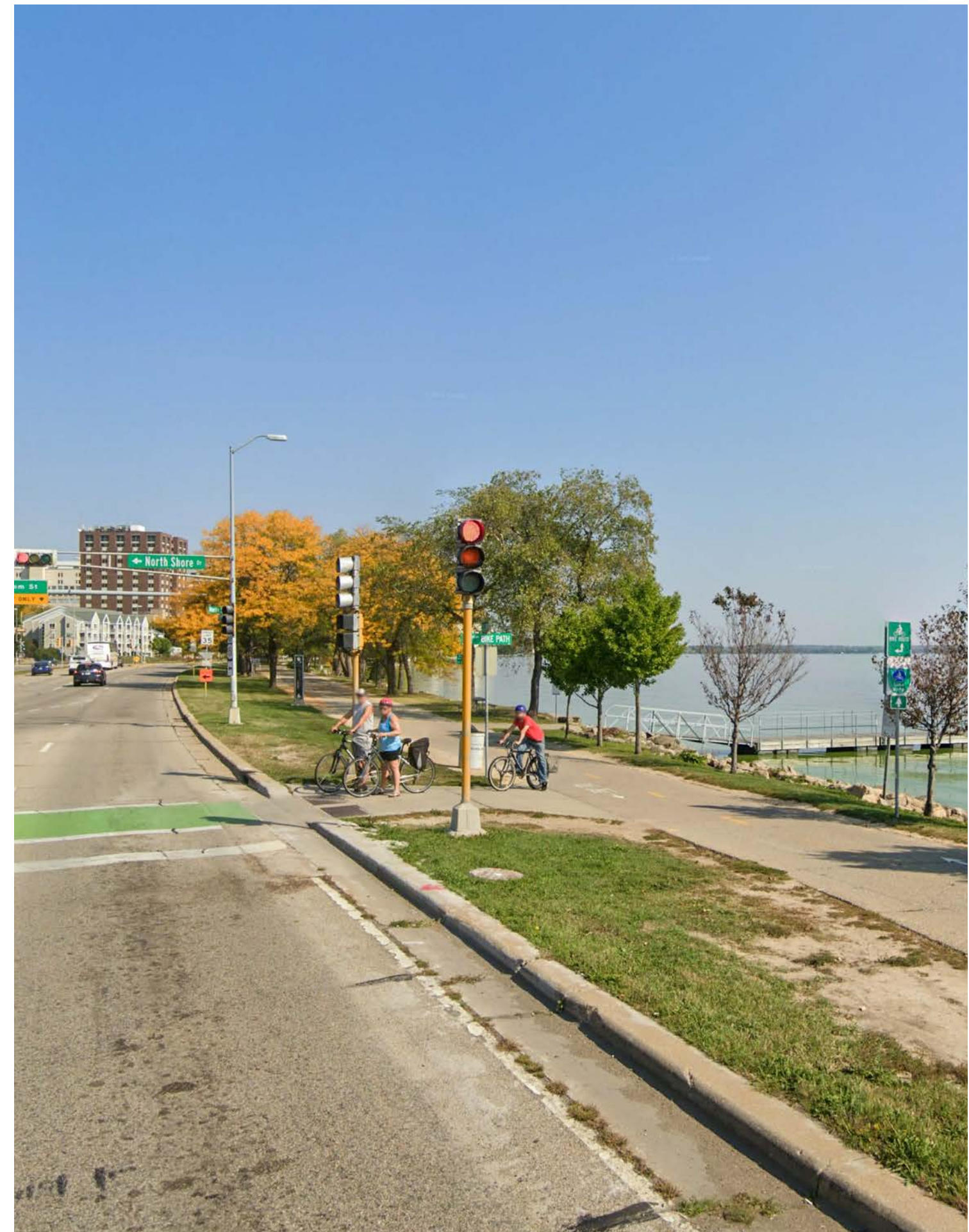
This multi-phased revitalization of Wayzata's lakefront transformed the public shoreline on Lake Minnetonka to be more pedestrian and bicycle friendly, with a signature urban park replacing the Broadway Municipal parking lot.

Minnesota Zoo Treetop Trail | Apple Valley, MN

The existing monorail infrastructure at the Zoo is to be transformed into an elevated walkway spanning 1.25 miles with shading structures, bird blinds, and five access points to enhance the user experience.

Cowles Conservatory Renovation at the Minneapolis Sculpture Garden | Minneapolis, MN

The Cowles Conservatory, built almost 30 years ago, underwent a radical makeover to accommodate new works or art and community events. The project engaged issues of current strategies for artistic production and exhibition, environmental sustainability, urban connectivity, and city parks operations.



PINE & SWALLOW PERSONNEL

Education

Master of Landscape Architecture
Harvard Graduate School of Design
Cambridge, MA

MS Geotechnical Engineering
Cornell University
Ithaca, NY

BS Civil Engineering
Cornell University
Ithaca, NY

Registrations

Commonwealth of Massachusetts –
Licensed Site Professional (LSP) #6331

State of New Hampshire – Licensed
Professional Geologist #00489

Professional Affiliation

American Society of Landscape
Architects

ROBERT N. PINE, FASLA, PE

Director of Environmental Planning and Engineering
Over 50 Years of Experience

Mr. Pine has utilized his combined background in geotechnical engineering, civil engineering and landscape architecture for land reclamation, site engineering and landscape development projects throughout the northeast and worldwide. His work ranges from initial site investigations to detailed design of hydro-geologic systems, including design and restoration of wetlands and water features, soil design, construction specifications and construction observation. His ability to evaluate and interpret soils and soil data allow him to design sustainable ways to make soils more productive.

Mr. Pine developed new standards for soils in the built environment ranging from high production soils, typical turf areas and planting beds to biotreatment, high use turf, over-structure plantings, wetlands and stream systems. He developed precise specifications that allow horticulturally appropriate, structurally stable soils to be placed under and support pavements, economically and reliably. Mr. Pine also developed strategies to modify in-place soils that have inappropriate characteristics or that are excessively compact to improve planting environments. His knowledge of hydrogeology allowed him to develop improved analysis and reduced-cost strategies for subsurface drainage: for high use areas such as sports fields; for general planting conditions; and for isolated plantings. He also developed quality control procedures to ensure compliance in blending, installing and maintaining landscape soils, drainage and plantings.

Mr. Pine's understanding of both the physical behavior and the horticultural properties of soils has allowed him to advance the profession's knowledge of soil science, with particular emphasis on manufactured soils and structural soil. He has been an education session presenter at ASLA Annual Meetings since 2009.

Relevant Project Experience (Partial List)

Bates College, Lewiston, ME

Fresh Pond Park, Cambridge, MA

Shelby Farms Park, Memphis, TN

East Village Green, San Diego, CA

Princeton University, Princeton, NJ

Seaport Square Master Plan, Boston, MA

PINE & SWALLOW PERSONNEL

Education

Ph.D. Organic Chemistry
Massachusetts Institute of Technology
Cambridge, MA

A.B. Chemistry
Colgate University
Hamilton, NY

Registrations

Commonwealth of Massachusetts –
Professional Engineer #29009

State of New Hampshire – Professional
Engineer #05092

Licensed Site Professional (LSP)

Professional Affiliation

Fellow in the Council of Fellows 2012,
American Society of Landscape
Architecture

JOHN C. SWALLOW, PH.D., LSP, PG

Director of Environmental Science
Over 45 Years of Experience

Dr. Swallow's professional soils and horticulture practice spans three decades and has emphasized service in the areas of soil chemistry, analysis of environmental conditions for plant growth, urban tree planting techniques, and site rehabilitation. Dr. Swallow was a presenter on soils in the built-landscape at ASLA National Conferences since 2008 and lectures at the Harvard Graduate School of Design. He has served on the Sustainable Sites Initiative (SITES) Technical Core and Soils Committees for many years.

Specializing in assessment of soil and water resources, Dr. Swallow has developed unique sampling and analytical methods to maximize the reuse of project soil and water assets. Manufactured soil blends incorporating onsite earth materials are designed to meet project requirements. He designs storm water management systems incorporating bio-swales, water harvesting and infiltration surfaces. Dr. Swallow has had extensive experience with urban and rooftop planting environments and has been involved with P&S's development of a structural soil for sustainable horticultural developments.

Dr. Swallow's horticultural projects range from initial site investigations to detailed design of soil-water-horticultural systems, construction specifications and construction observation. He also directs P&S's soil analytical laboratory, which is available for project site assessment and construction monitoring. Additionally, Dr. Swallow is a Licensed Site Professional and has managed many soil and groundwater investigations and remedial design implementations.

His worldwide built-projects range from new embassies to campus projects to farms on remote islands to mega parks on urban islands and lots in between.

Relevant Project Experience (Partial List)

China Basin Park, San Francisco, CA

**Arlington National Cemetery Southern Expansion,
Arlington, VA**

Cambridge Crossing, Cambridge, MA

Princeton University, Princeton NJ - Multiple projects

Smithsonian Institute, Washington DC - Multiple Projects

Botanical Gardens at One Beverly Hills, Beverly Hills, CA

Pentagon Green Roof, Arlington VA

Brooklyn Bridge Park, NYC

PINE & SWALLOW PERSONNEL

Education

B.S. in Construction Management
Fitchburg State College
Fitchburg, MA

Specializations

Soil analyses and turf management

Specialized experience in field data collection and construction monitoring

MICHAEL A. AGONIS, ASSOCIATE PRINCIPAL

Project Manager & Environmental Scientist
Over 25 Years of Experience

Mr. Agonis has experience in soils classification, infiltration testing, and field screening of soil samples in test pit and horticultural excavations. He is normally a project manager for P&S's site investigations. Mr. Agonis has familiarity with state building codes and has significant experience in strength of materials and materials testing. Mr. Agonis also has experience in waste regeneration and composting operations to improve soil texture, organic content, and moisture holding capabilities. His leadership, technical, and problem-solving skills are an integral part of P&S's site assessment services.

Mr. Agonis' projects as project manager include renovation to an 18-acre athletic field facility where differing fill soils and groundwater posed unique challenges. He has also been a project manager for a public school project where settlement had caused a schoolyard to become unsafe for children. Mr. Agonis coordinated the investigation and recommended solutions to the problems, including drainage, and tree plantings. Mr. Agonis directs field soil investigations where test pits are excavated, percolation tests performed, and soil samples collected to determine the characteristics of existing soil conditions. Responsibilities include laboratory data interpretation and reporting, as well as Specification writing and problem solving.

Mr. Agonis has also ensured the success of P&S's projects by monitoring the adherence to construction specifications, and educating contractors to the unique construction requirements of areas requiring specific soil blends, such as high use turf soils. Mr. Agonis' understanding of the environmental relationship of soil, drainage, groundwater and land use has contributed to the firm's success on many nationally recognized landscape projects.

Relevant Project Experience (Partial List)

Fresh Pond Park, Cambridge, MA

Shelby Farms Park, Memphis, TN

Governors Island, New York, NY

Omaha Riverfront Park, Omaha, NE

Port Norfolk Park, Boston, MA

Ferrous Park, Lawrence, MA

PINE & SWALLOW PERSONNEL

Education

B.S. Environmental Studies
UMass Lowell
Lowell, MA

Specializations

Skilled at field sampling and laboratory analysis of soils

Experienced in field data collection and construction observation

Special interest in environmental conservation

ARIANNA BARKER

Environmental Scientist
Over 2 Years of Experience

Arianna is an environmental scientist with P&S and is knowledgeable and experienced with laboratory analysis of soils as well as project on-site data collection and construction observation. Arianna brings her love of nature and the knowledge she gained in her university studies to every project.

Arianna meets with clients, writes proposals, discerns project specific needs related to planting soil design, and carries out the tasks associated with producing deliverables to meet project deadlines. Arianna is skilled in soils classification, infiltration testing, and field screening of soil samples during site investigations to define existing resources.

Arianna can often be found in Pine & Swallow's in-house soils laboratory. After logging in samples, she communicates with the clients and soil suppliers, and conducts an array of analyses targeted to the project's specific needs. Her skills in testing and analysis of samples, data tabulation and interpretation of results based on the project's planting soil specifications help ensure successful outcomes.

As an integral part of Pine & Swallow's field team, she performs on-site testing of soils including acquisition of samples and infiltration testing on projects of all sizes. During a project's Construction Phase, Arianna reviews formal material submittals to evaluate compliance with the specifications and, when necessary, makes recommendations for adjustments to bring a material to within compliance range. She also performs site visits for horticultural soil mockups and drainage layer installations, testing of subgrade infiltration prior to soil placement and to observe and assess soil placement and evaluate compliance.

Relevant Project Experience (Partial List)

MWRA Dams Turf Study, Multiple Sites in Massachusetts

Harvard University, Cambridge, MA

National Landing, Crystal City, Washington, DC

Omaha Riverfront Revitalization, Omaha, NE

Cambridge Crossing, Cambridge, MA

SB FRIEDMAN PERSONNEL

Education

Master's in Urban and Regional Planning, University of Illinois at Urbana-Champaign

Bachelor's degree in Architecture with honors, Jadavpur University, India

Professional/Civic Organizations

American Planning Association (APA)

American Institute of Certified Planners (AICP)

Lambda Alpha International- Ely Chapter

Urban Land Institute (ULI)- Public-Private Partnerships Product Council

Select Publications

2019, "The Nexus Between Land Use and Fiscal Balance" (with F. Rood), American Planning Association (APA) Zoning Practice

2012, "Emerging Suburban Development Issues" (with S. Friedman & G. Dickinson), ILCMA Newsletter

2009, Section on "Market Analysis," Advanced Tax Increment Reference Guide for the Council of Development Finance Agencies (CDFA)

Select Presentations

"Bronzeville Lakefront: Getting the Deal Done" (ULI Chicago, 2021)

"Chicago's Next Hot Neighborhood – Lessons from the Morgan Green Line Stop" (ULI, 2017)

"Making the Case for Mixed-Use Sub-Urbanism" (APA National Conference, 2017)

"The 'Buildable' Comp Plan: A New Paradigm for the 21st Century" (APA IL Conference, 2016)

RANADIP BOSE, AICP

Senior Vice President
Over 20 Years of Experience

Ranadip is a real estate development advisor dedicated to the creation of inclusive, high-quality urban environments. He brings over 20 years of experience in market and financial feasibility analysis, economic impact analysis, and development strategy across the country. He has directed numerous consulting assignments including a market and financial analysis for the revitalization of the lakefront area in downtown Cleveland and a redevelopment strategy for a key waterfront site in Holland, Michigan. He has also advised the City of Chicago in negotiating the economic terms of a \$3.5 billion Bronzeville Lakefront redevelopment.

Relevant Project Experience (Partial List)**Bronzeville Lakefront Development Strategy & Implementation, Chicago, IL**

Led the analysis of various redevelopment scenarios for the 48-acre former Michael Reese Hospital site in Chicago; also, reviewed development proposals and assisted in structuring a public-private partnership to support redevelopment

Waterfront Site Development Advisory Services, Holland, MI

Led the development of an implementation strategy for the Waterfront Holland Vision Plan; assisted the City with a developer solicitation process to support the redevelopment of key City-owned waterfront parcels

Cleveland Lakefront Development Advisory Services, Cleveland, OH

Managed a market analysis and financial analysis and provided implementation strategies for the lakefront area in downtown Cleveland

Equitable Growth through TOD Study, Milwaukee, WI

Led an analysis of the financial feasibility of redeveloping nine key catalytic sites along a proposed extension of the Milwaukee Streetcar and evaluated programs and policies to facilitate equitable redevelopment.

Downtown Site Redevelopment Strategy and Developer Solicitation, Omaha, NE

Led the evaluation of various redevelopment and ownership scenarios for a prominent underutilized site in downtown Omaha; also assisted in developer solicitation efforts and in the negotiation of a master development agreement (confidential project)

Hospital Site Redevelopment Plan, Bloomington, IN

Leading an evaluation of the market potential for residential and retail uses on a catalytic redevelopment site south of downtown Bloomington

90 N District Development Advisory Services, Schaumburg, IL

Provided market-driven insight and analysis to help the Village of Schaumburg create a visionary and implementable plan that included a transit-supportive and walkable environment on a former Motorola headquarters site

SB FRIEDMAN PERSONNEL

Education

Master of City and Regional Planning, Cornell University

Bachelor of Arts in Urban & Regional Planning and Public Administration, Miami University

Professional/Civic Organizations

American Planning Association (APA)

American Institute of Certified Planners (AICP)

Illinois Housing Council

Urban Land Institute

Select Presentations

"Development Finance and Incentives Best Practices" (APA Illinois, 2021)

"Express Route to Development? BRT and Market Multipliers" (APA National Conference, 2021)

"Charleston's Lowcountry Rapid Transit" (ULI South Carolina Workshop, 2020)

"Intro to Housing Finance (Using Targeted Tools to Facilitate Housing Development)" (CDFA Webinar, 2019)

Previous Experience

Development Intern, New York City Economic Development Corporation (NYCEDC)

Mayoral Fellow, Chicago Mayors Office
Research Assistant, Cornell University
Charles H. Dyson School of Applied Economics and Management

CAREN KAY, AICP

Project Manager
Over 5 Years of Experience

Caren specializes in urban economics, land use planning and real estate development. Her experience includes assisting the City of Chicago in the negotiation and structuring of a public-private partnership to support redevelopment of the Bronzeville Lakefront site in Chicago, Illinois. She has also conducted site and area-wide market analyses, including for projects in the Chicagoland area, Indianapolis, IN, Boise, ID, and Charleston, SC. Her experience in Wisconsin includes managing a housing study for the City of Sun Prairie, and analyzing the financial feasibility of transit-oriented development scenarios in Milwaukee. She was recently selected to conduct a regional housing strategy for Dane County.

Relevant Project Experience (Partial List)**Bronzeville Lakefront Development Strategy & Implementation, Chicago, IL**

Assisted in the negotiation and structuring of a public-private partnership to support redevelopment of the former Michael Reese Hospital site in Chicago

Roosevelt/Clark Underwriting Analysis & Deal Structuring, Chicago, IL

Assisted in underwriting a proposed \$7 billion development to evaluate the developer's request for public financial assistance; prepared TIF projections and modeled proposed deal structures to assess the capacity of the TIF district to fulfill the developer's request for assistance

CCDC Urban Renewal Area Feasibility Studies, Boise, ID

Conducted a market assessment for three Urban Renewal Areas in Boise, Idaho, to inform TIF projections over a 20-year period; modeled the cost of planned public improvements within the district(s) against proposed revenue streams to determine project feasibility

Lowcountry Rapid Transit TOD Planning Study, Charleston, SC Metro

Conducted a regional market analysis for a proposed bus rapid transit line in the Charleston, SC region; project includes evaluation of transit-oriented development opportunities, equitable growth strategy, and value capture strategies to fund transit improvements

Equitable Growth through TOD Study, Milwaukee, WI

Assisted in evaluating programs and policies to facilitate equitable redevelopment along a proposed extension of the Milwaukee Streetcar and analyzing the financial feasibility of redeveloping nine key catalytic sites in the Bronzeville and Walker's Point neighborhoods

Broad Ripple High School Site Market Analysis, Indianapolis, IN

Conducted a market analysis to help Indianapolis Public Schools understand the highest and best uses of a former high school site

Comprehensive Plan Update, Winnetka, IL

Analyzed the residential and retail market position of Winnetka, Illinois relative to North Shore communities; conducted stakeholder and focus group interviews as part of the comprehensive planning process

ANCHOR QEA PERSONNEL

Education

MS, Civil and Environmental Engineering
University of Wisconsin

MS, Water Resources Management,
University of Wisconsin

BS, Geology and Geophysics, University
of Wisconsin

Registrations

Professional Engineer: Wisconsin, No.
42230-6

LAURA ROZUMALSKI, PE

Principal Engineer and Project Manager
18 Years of Experience

Laura Rozumalski is a principal engineer with 18 years of experience in project management and execution. Laura is a technical expert in multidimensional hydrodynamic modeling, waterways restoration, fluvial geomorphology, coastal processes, sediment transport, and hydrologic and hydraulic modeling. Laura founded FreshWater Engineering in 2014 and has since merged Anchor QEA in June 2021 with the goal of providing engineering design services that conform to the most stringent of standards while being innovative and tailored to clients' unique project requirements. During her project career, Laura has managed dozens of coastal restoration and stabilization projects, ranging from rehabilitation and reconstruction design to addressing erosion and failing infrastructure issues. She has successfully managed projects with contract values upwards of \$4 million for NGOs, municipalities, and the U.S. Army Corps of Engineers (USACE).

Relevant Project Experience (Partial List)**City of Madison, John Nolen Drive Coastal Analysis**

Laura performed a coastal analysis for John Nolen Drive in Madison. The analysis included evaluating the nearshore wave climate and providing design recommendations for a riprap revetment to protect the Drive and nearby shoreline for the City of Madison.

Village of Fox Point, Fox Point Coastal Resiliency

Laura is currently managing coastal protection design team for a project in the Village of Fox Point, Wisconsin. The work includes evaluations of nearshore wave climates, armor dimensions, and stone sizing for various options. Additional analyses will include modeling of the site using Deflt3D, evaluation of sediment transport patterns, and assessment of the impacts of armoring on nearby shorelines.

Milwaukee County, North Point Coastal Analysis

Laura oversaw coastal wave analyses to aid in design of a shore protection strategy for the North Point parking lot in Milwaukee. She directed the coastal team using linear wave theory to convert offshore wave parameters contained in the USACE Wave Information Studies (WIS) dataset. Under her guidance, the team evaluated bathymetry and wave data to project wave heights at a range of expected recurrence intervals at the site.

Milwaukee County, Menomonee River Bank Stabilization

Laura was project manager and principal in charge for the hydrologic and hydraulic modeling and design team working on a badly eroded streambank on the urban Menomonee River. She served as the primary communication point between the engineering team and the County, coordinated meetings, site inspections, and permitting.

U.S. Geological Survey, U.S. Geological Survey Water Quality and Combined Sewer Overflow Sampling

Laura managed ongoing water quality monitoring and sampling for numerous projects in the Great Lakes Region. This work involved river sampling in areas of concern containing contaminated sediments, combined sewer overflow outfall sampling in the Milwaukee region and mercury sampling throughout Wisconsin.

Wisconsin Department of Natural Resources, Assessment of Southeastern Wisconsin's Lake Michigan Shoreline

Laura oversaw efforts to document historic and current shoreline erosion and coastal morphology in southern Kenosha County to understand mitigation options for a failing revetment in Kenosha Dunes State Natural Area.

ANCHOR QEA PERSONNEL

Education

MS, Coastal and Oceanographic
Engineering
University of Florida

BS, Civil Engineering
Worcester Polytechnic Institute

Registrations

Professional Engineer: New York,
No. 083603-1; Maryland, No. 51652;
Delaware, No. 21544

Affiliations

American Society of Civil Engineers

American Shore and Beach Preservation
Association

Great Lakes Shore and Beach
Preservation Association

MATT HENDERSON, PE

Principal Coastal Engineer
Over 25 Years of Experience

Matt Henderson has more than 25 years of experience as a coastal and environmental engineer, focusing on evaluating coastal conditions and developing sustainable approaches and designs to ensure stability of shorelines, coastal infrastructure, and natural resources. Matt has expertise in developing multidimensional models of the Great Lakes and modeling hurricane storm surges for bays and estuaries on the Gulf of Mexico and the Atlantic Coast. His expertise includes hydraulics and hydrodynamics, coastal engineering, living shoreline designs, beneficial use of dredged material, hurricane surge modeling, wave modeling, riverine flood modeling, and sediment erodibility and stability assessments. He has performed shoreline erosion and protection designs for waterfront and restoration projects in the Great Lakes. Matt has served as the lead coastal engineer on some of the largest living shoreline projects in the United States. He is currently serving as the lead coastal engineer for several coastal resiliency projects that are part of Lake Ontario Resiliency and Economic Development Initiative (REDI).

Relevant Project Experience (Partial List)**Buffalo Niagara Waterkeeper, Ohio Street Boat Launch**

Matt was the senior coastal engineer for the Ohio Street Boat Launch and Fishing Pier Project on the Buffalo River. The designs included a Americans with Disability Act (ADA)-compliant cantilevered curvilinear fishing pier, ADA-complaint non-motorized boat launch, and riparian and in-water habitat improvements. Matt led the evaluation of coastal and shoreline conditions and forces along the project area.

Clayton, New York, Clayton Resiliency and Economic Development Projects

Matt was the lead coastal engineer and modeler supporting the design of Mary Street Boat Launch and Village Street Dock Improvements. The Village of Clayton, located along the shore of the St. Lawrence River, sustained significant damages to public infrastructure due to unprecedented high water events and wave action during a major storm event. Anchor QEA evaluated wave conditions, overtopping, and hydrodynamic and ice loads for structural repairs and improvements along the River. Matt led the site specific hindcasting studies to develop design parameters for engineering analysis. Anchor QEA is currently designing a wave attenuator system to reduce wave energy along the Village Street Dock.

Buffalo Niagara Waterkeeper, Little Beaver Island Shoreline Habitat Improvement

Matt was the lead coastal engineer and modeler for the creation of a living shoreline to protect a severely eroding shoreline and create nearshore habitat in Beaver Island State Park. The design included creating and restoring riparian and coastal habitat to improve ecological conditions for resting, feeding, and spawning for numerous fish and wildlife species and enhancing shoreline stability.

Great Lakes Healthy Port Futures, Lorain, Ohio, and Illinois Beach State Park

As part of the Great Lakes Healthy Port Futures Project, the use of passive sediment management techniques to identify dredged material placement areas, protect nearshore coastal habitats, and reduce erosion along the Great Lakes shorelines are being evaluated. Matt led the development of multidimensional wave models for the two projects to estimate the effect of various nearshore structures on wind-generated wave events and associated nearshore sediment erosion, transport, and deposition characteristics.

ANCHOR QEA PERSONNEL

Education

MS, Civil and Environmental Engineer
University of Wisconsin

BS, Mechanical Engineering
Iowa State University

BRENT TESKE, PE

Senior Coastal Engineer
6 Years of Experience

Brent Teske has 6 years of experience in coastal engineering, living shoreline design and implementation, coastal wave climate assessment, wetland rehabilitation, hydrographic surveying, hydrologic and hydraulic modeling, sediment transport analysis, GIS tools, and coastal engineering design. His responsibilities include engineering design and analysis, fieldwork, and project management.

Relevant Project Experience (Partial List)**John Nolen Drive Coastal Assessment**

Brent provided a coastal assessment of John Nolen Drive in Madison, Wisconsin in support of a causeway redesign and reconstruction project. He performed a wind-fetch analysis to evaluate wave heights with GIS measurements of open water distances and wind data from Madison's airport. The analysis allowed him to provide recommendations on revetment heights, slopes, and stone sizing.

Cherokee Marsh Floating Breakwater Design

Brent developed biodegradable floating breakwaters to protect an eroding shoreline in Madison, Wisconsin's Cherokee Marsh. The fragile shoreline was exposed to large waves and was identified as an area of concern. His work involved designing, constructing, and installing a series of vegetated breakwaters to limit wave impacts and trap sediment, rebuilding the shoreline. Field measurements showed that the breakwaters were successful at both preventing erosion and accumulating sediment. They also provided a foothold for a variety of native flora and attracted a range of animals.

Village of Fox Point, Fox Point Coastal Resiliency

Brent is currently serving as lead modeler designing a coastal protection system in the Village of Fox Point, Wisconsin. The work includes modeling of the site using Delft3D to evaluate sediment transport patterns, assess impacts of armoring on nearby shorelines, and evaluate wave heights on the shoreline. Additional design work will include selecting armor strategies, structure dimensions, and stone sizing for various options.

Fairport Harbor, Fairport Harbor Marina Breakwater Design

Brent is serving as lead modeler developing a coastal wave model for rehabilitation of a marina breakwater in Lake Erie. The work includes using Delft3D to assess sediment transport patterns, analyze impacts of armoring on nearby shorelines, and evaluate wave heights within the marina. Additional design work will include defining armor strategies, structure dimensions, and breakwater stone sizing to ensure adequate protection of vessels in the marina.

Milwaukee County, North Point Coastal Analysis

Brent analyzed the local coastal wave climate to aid in design of a shore protection strategy for the North Point parking lot in Milwaukee, Wisconsin. He used linear wave theory to convert offshore wave parameters contained in the U.S. Army Corps of Engineers (USACE) Wave Information Studies (WIS) dataset. He also evaluated bathymetry and wave data to project wave heights at a range of expected recurrence intervals at the site.

Revetment Evaluation, Lakefront Preservation Group

Brent evaluated the coastal impacts of a proposed riprap revetment. Erosion of dunes along the east coast of Lake Michigan led to investigations of various shoreline armoring techniques. Work included an assessment of dominant wave and sediment transport patterns and suggestions for alternative shore protection options that would limit unintended consequences of coastal hardening.

ANCHOR QEA PERSONNEL

Education

BS, Civil Engineering
University of Wisconsin, Madison

Registrations

Advanced Certificate in Coastal Engineering
Old Dominion University, 2021

Engineer in Training (EIT)

JACOB STURZL, EIT

Junior Coastal Engineer
4 Years of Experience

Jacob Sturzl is an engineering professional with 4 years of experience in civil engineering. He is skilled in coastal engineering, including metocean analysis, design of coastal structures, and coastal process analysis. Jacob is adept at geospatial analysis and is proficient with a number of engineering software packages including AutoCAD Civil 3D, ArcGIS, Python, and Matlab. He is experienced in hydrodynamic and hydrologic modeling using Delft3D and HEC-RAS. Jacob has created several complex coastal and riverine models. He has designed successful projects in the Great Lakes and along both the east and west coasts of the United States.

Relevant Project Experience (Partial List)**Village of Fairport Harbor, Fairport Harbor Wave/Flow Model**

Jacob created a lake-wide model of Lake Erie in support of a breakwater construction to protect a new transient marina. The model predicted wave generation over Lake Erie and propagation to the project site. The wave environment at the project site was complicated by the dilapidated federal breakwater located 0.5 mile offshore. The model calculated wave transmission and diffraction through the breakwater. This model allowed the client to test the effectiveness of different breakwater configurations and choose a design that protected the proposed marina.

Village of Fox Point, Lake Michigan Hydrodynamic Modeling

Jacob performed wave and hydrodynamic modeling to assess the impact of proposed revetments in Lake Michigan. The model needed enough coverage to generate waves over Lake Michigan but also have the resolution to resolve a 3:1 slope at the project site. Jacob created a spatially variable Delft3D model to analyze changes in local hydrodynamics caused by constructing a revetment. He georeferenced the results and generated figures using ArcGIS. The results provided verification to the client and regulators that there was little impact to the coastal processes in the area.

City of Jefferson Residents, Jefferson County Flood Study

Jacob performed hydrologic and hydraulic modeling of an unnamed stream in Jefferson County using HEC-RAS. He procured and processed Light Detection and Ranging (LiDAR), infrastructure, and land cover data. Using ArcGIS tools, he delineated the watershed and determined flow paths. He calculated return period flows by reviewing available data and performing statistical analysis. He processed HEC-RAS results and mapped the floodplain using ArcGIS.

Confidential Client, Willamette River Model

Jacob performed hydrodynamic modeling of the Willamette River in support of a Superfund contaminated sediment project. The model was used to allocate liability and determine the sources for contaminants detected in the river. Because the contaminants were largely distributed before 1980s, Jacob georeferenced historical imagery and recreated the historical shoreline. He processed and presented the results into more than 50 figures using ArcGIS. His work helped the client understand the sources of contaminants in the river.

City of Sheboygan, Sheboygan Revetment

Jacob performed coastal analysis and revetment design in support of a 2-mile long shoreline protection project in western Lake Michigan. He calculated wave transformation and forces, stone sizing, and cross-section design. The project was complicated by varying shoreline morphology, so he designed different cross sections to address the changes in topography.

PROOF PERSONNEL

Education

Master of Landscape Architecture
Harvard University
Cambridge, MA.

Bachelor of Arts in Architecture
Miami University
Oxford, OH.

Registrations

FAA Registered UAS Pilot

Academic Appointments

University of Pennsylvania
Assistant Professor of Landscape
Architecture
2018-Present

SUNY University at Buffalo
Assistant Professor of Landscape and
Urban Design
2013-2018

Pennsylvania State University
Assistant Professor of Landscape
Architecture
2009-2013

Professional Experience

Westlake Reed Leskosky
Lead Landscape Designer
Cleveland, OH
2008-2009

Cleveland Urban Design Collaborative
Urban Design Project Manager
Cleveland, OH
2005-2008

SEAN BURKHOLDER

Partner-in-Charge
17 Years of Experience

Sean is a co-founder of Proof Projects, LLC, and the Andrew Gordon Assistant Professor of Landscape Architecture at the University of Pennsylvania. With over two decades of academic and professional experience, his work focuses on urban water systems and the productive interaction of human and non-human ecosystems in coastal environments, with a particular focus on context assessment and long-term monitoring. Sean is also a member of the 501(c)3 Dredge Research Collaborative.

Prior to Proof and the University of Pennsylvania, Sean developed an EPA-funded urban land assessment protocol for establishing vacant land as valuable green infrastructure in the city of Buffalo, New York and designed a series of small urban parks aimed at combining stormwater management and public use in Cleveland, Ohio, Buffalo, New York and Gary, Indiana

While he has published widely on the topic of shrinking cities and urban green infrastructure, his most recent research focuses on the specific challenges of coastal design in freshwater lake environments, with a particular interest in the North American Great Lakes. His new book: Five Bay Landscapes is due out in December of 2022, and explores the landscapes associated with lake bays, and includes Green Bay, Wisconsin.

Sean co-manages the Health Port Futures project with Brian Davis which is aimed at developing innovative shoreland design strategies that leverage coastal processes as fundamental design actors. Projects under this initiative include a coastal protection and habitat creation reef at Illinois Beach State Park in Illinois, a long-term sediment management and monitoring plan for the small community of Port Bay, New York and the co-development of a series of coastal wetlands with the Buffalo District of the United States Army Corps of Engineers for port communities in Ohio

PROOF PERSONNEL

Education

Master of Landscape Architecture
University of Virginia
Charlottesville, VA.

Bachelor of Landscape Architecture
North Carolina State University
Raleigh, NC

Registrations

Registered Landscape Architect
#1031268

FAA Registered UAS Pilot

Professional Affiliation

American Association of Landscape
Architects

Academic Appointments

University of Virginia
Charlottesville, VA
2019-Present

Cornell University
Ithaca, NY
2012-2019

Professional Experience

Thomas Balsley Associates
Landscape Project Manager
New York, NY
2007-2010

BRIAN DAVIS

Consulting Partner
15 Years of Experience

Brian is a co-founder of Proof Projects, LLC, a licensed landscape architect, and a Fellow of the American Academy in Rome. He is also an Associate Professor of Landscape Architecture at the University of Virginia, and a member of the 501(c)3 Dredge Research Collaborative, Inc. He brings 16 years of experience in public and private practice and academia focused on improving human and ecosystem health through public landscape design and research, with a special focus on landform, sediment, and construction processes. About

While a project manager for Thomas Balsley Associates Brian participated in the design of Riverside Park South in New York City and was the project manager for the park created on the site of the old Yankee Stadium. He is currently the Primary Investigator for a project with the National Park Service and the USACE Engineering with Nature Program developing innovative natural infrastructure to enhance coastal resilience for important cultural landscapes in the Chesapeake Bay

Brian co-manages the Health Port Futures project with Sean Burkholder which is aimed at developing innovative shoreland design strategies that leverage coastal processes as fundamental design actors. Projects under this initiative include a coastal protection and habitat creation reef at Illinois Beach State Park in Illinois, a long-term sediment management and monitoring plan for the small community of Port Bay, New York, and the co-development of a series of coastal wetlands with the Buffalo District of the United States Army Corps of Engineers for port communities in Ohio.

PROOF PERSONNEL

Education

PhD. University of Pennsylvania
Philadelphia, PA

Master of Architecture
University of Michigan
Ann Arbor, MI

Bachelor of Arts
Brown University
Providence, RI

Registrations

Registered Architect

Academic Appointments

University of Virginia
Assistant Professor of Architecture
2020-present

Rhode Island School of Design
Visiting Critic in Architecture
2017-2018

Virginia Tech
Visiting Assistant Professor of
Architecture
2012-2013

Professional Experience

Tod Williams Billie Tsien
Project Architect/Designer
New York, NY.
2007-2011

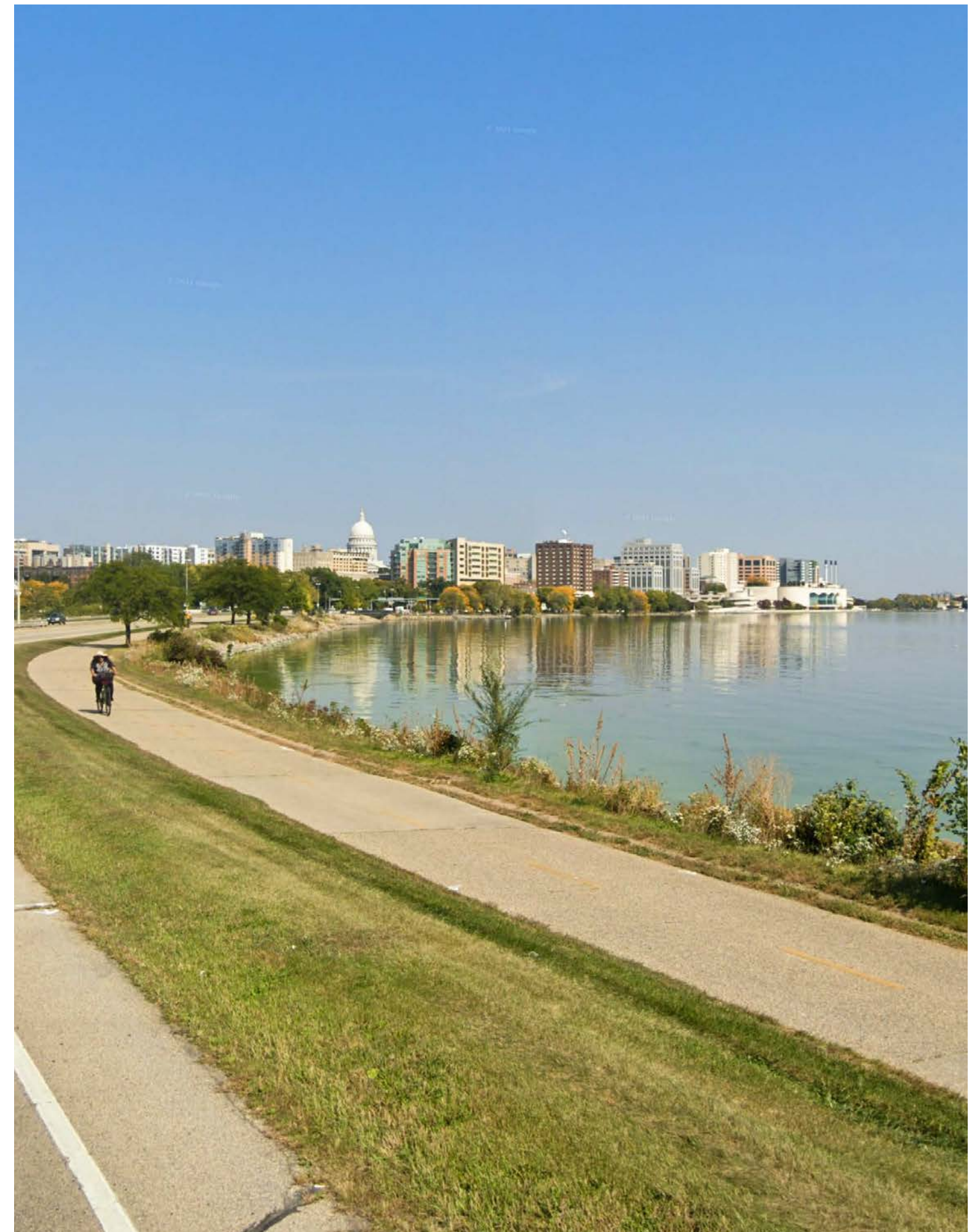
Aphrodisias Regional Survey
Site Architect and Surveyer
Rome, Italy
July: 2007, 2008

ERIN PUTALIK

Consulting Partner
15 Years of Experience

Erin is a co-founder of Proof Projects, LLC, she is also an Assistant Professor of Architecture and Architectural History at the University of Virginia. She is a licensed architect and also holds a doctorate in architectural history from the University of Pennsylvania. Her scholarly work considers how cultural values shape both land management approaches and material use in the design fields.

While at Williams and Tsien Architects Erin was a designer for the LeFrak Lakeside Center in Prospect Park, Brooklyn, NY where she worked with ecologists and landscape architects to restore the original shoreline and lake health while creating a new public icehouse and skating center for recreation.



KIMLEY-HORN PERSONNEL

Education

Bachelor of Science, Civil Engineering
Purdue University

Location

Chicago, IL

PETER LEMMON, PE, PTOE

Transportation/Mobility Planner
24 Years of Experience

Peter has 24 years of experience managing and conducting numerous traffic engineering, transportation and mobility planning, parking analysis, data collection, access/circulation, and subarea planning studies. With a breadth of project experience integrating transportation with other land use planning, economic development, and design disciplines, he demonstrates a fundamental understanding of key issues to balance a wide range of project considerations. Peter demonstrates a focus on multimodal sensibilities to safely balance needs of autos, pedestrians, bicycles, and transit. Peter also has considerable experience presenting to both technical and nontechnical audiences while collaborating with stakeholders in various formats to solicit input and gain broad support on plans that factor various perspectives and viewpoints.

Relevant Project Experience (Partial List)

Navy Pier Centennial Master Plan, Chicago, IL

Uptown Streetscape Design, Kenosha, WI

Kenosha Innovation Neighborhood Master Plan, Kenosha, WI

Downtown Master Plan, Manitowoc, WI

Purdue University Third Street Pedestrian Greenway Conversion, West Lafayette, IN

North Avenue Traffic Safety and Mobility Plan, Chicago, IL

Union Station Development Plan, Chicago, IL

Green Bay Road Corridor Improvements, Evanston, IL

IU Health Methodist Hospital Mobility Plan, Indianapolis, IN

KIMLEY-HORN PERSONNEL

Education

Master of Science, Civil Engineering
University of Minnesota

Bachelor of Arts, Geology
University of Minnesota

Bachelor of Arts, Management
University of Minnesota

Affiliations

American Planning Association

Institute of Transportation Engineers
(ITE)

Location

Phoenix, AZ

BRIAN SMALKOSKI, PE, AICP, PTP, PTOE

Senior Transportation Planner
Over 23 Years of Experience

Brian is an experienced senior transportation planner and engineer. He has more than 23 years experience managing people and projects, including more than 10 of those projects in Madison. He has worked on a wide variety of projects in roles such as transit planning, land use planning, visioning, pedestrian/bicycle planning, rail planning, aviation planning, travel demand modeling, air quality modeling, economic analysis, parking planning, and traffic operations analysis and design.

Relevant Project Experience (Partial List)

Master Planning Services, Dubuque, IA

Grandview Green Feasibility Study, Edina, MN

Capitol East District Parking Study, Madison, WI

Grant Application for USDOT Grant "Beyond Traffic: The Smart City Challenge", Madison, WI

Judge Doyle Square Master Plan, Madison, WI

South Capitol Transit-Oriented Development District Planning Study, Madison, WI

Transit Corridor Study, Madison, WI

Campus Master Plan, Verona, WI

WisDOT Site Redevelopment Master Plan, Madison, WI

North Campus Master Plan Update, Brooklyn Park, MN

University of Wisconsin-Madison Parking Ramp Replacement (aka Lot 62/Linden Drive Parking Garage), Madison, WI

Campus Master Plan 2015, Madison, WI

Statewide Traffic Engineering Master Contract 2015 (BTO 01), Statewide, WI

KIMLEY-HORN PERSONNEL

Education

Bachelor of Science, Civil and Environmental Engineering
Georgia Institute of Technology

Affiliations

Institute of Transportation Engineers (ITE)

TRACY LEHMAN, PE, PTOE RSP1, RSP2I

Senior Traffic Engineer
15 Years of Experience

Tracy has nearly 15 years of experience in transportation engineering and planning ranging from site and small-area analysis to corridor and regional studies. She recently assisted the SmithGroup team in preparing the Lake Monona Waterfront Preliminary Report, contributing to transportation elements of the plan and coordinating with stakeholders such as engineering staff from the City of Madison, WISDOT, and Wisconsin & Southern Railroad. As transportation engineer and planner, ironman triathlete, and recreational cyclist, Tracy understands the importance of balancing the needs of all members of the community to create friendly bicycle and pedestrian environments. As a nationally recognized leader in safety analysis and design, she strives to apply her passion for safety to her transportation projects and brings a breadth of perspectives from around the nation to her projects. Tracy's passion for safety extends beyond her practice—she leads the Institute of Transportation Engineers' (ITE) new Transportation and Health Standing Committee, is a contributing member of the Georgia ITE Safety Committee, and of Atlanta Regional Commission's (ARC) Regional Safety Taskforce. Tracy recently contributed to the Federal Highway Administration's (FHWA) new guidance manual, Implementing a Local Road Safety Plan, which provides tips on how to take a plan from idea to reality.

Relevant Project Experience (Partial List)

Lake Monona Waterfront Preliminary Report, Madison, WI

SSM Health Redevelopment, Madison, WI

Madison Yards Master Plan & Off-Site Improvements, Madison, WI
Capitol East District Parking Study, Madison, WI

Regional Safety Design Services On-Calls, Regions B and C, Statewide, GA

Local Road Safety Plans, Statewide, AL

Roadway Safety Analysis: Roswell Road/Abernathy Road, Sandy Springs, GA

High-Crash Intersection Safety Study and Action Plan, Tucker, GA

High-Crash Intersection Safety Study and Action Plan, Johns Creek, GA

Errant and Hostile Vehicle Deterrence Plans, Nationwide, US

Charles Road Roadside Safety Review, McHenry County, IL

KIMLEY-HORN PERSONNEL

Education

Bachelor of Science, Civil Engineering
Iowa State University

MATT HUGGINS, PE

Civil Engineer
15 Years of Experience

Matt has 15 years of engineering consulting experience delivering a variety of projects for municipal, county, State DOT, State DNR, and National Park Service clients. He has project management, design, and technical expertise delivering many park, trail, and roadway projects—including multidisciplinary context-sensitive urban corridors and community parks—from early conceptual development and public outreach through construction administration and final ribbon cutting. Matt's strong technical background includes roadway and trail design, stormwater management and storm sewer design/modeling, street lighting, public involvement, and coordination of project objectives and goals with several project stakeholders.

Relevant Project Experience (Partial List)

Levee Park Riverboat and Transient Boat Dockage, Park, and Promenade Improvements, Red Wing, MN

Wakefield Park, Maplewood, MN

2016 Park Redevelopment Projects, Coon Rapids, MN

St. Croix Boom Site Roadside Recreational Area, Stillwater, MN

Veterans Memorial Park, Anoka, MN

Greenhaven Golf Course Entry and TH 10 Interchange Landscape, Anoka, MN

THORNTON TOMASETTI PERSONNEL

JOHN PERONTO, SE, PE, CENG, EUR ING, FISTRUCTE, FICE, F.ASCE, SECB, LEED AP

Principal in Charge
Over 18 Years of Experience

The Chicago office director and founding leader of the firm's Supertall Buildings Community of Practice, John Peronto has led the design of some of the tallest buildings in the world including Jeddah Tower, which upon completion will be the 1st man-made structure to reach a kilometer in height, and numerous other tall to supertall buildings in Europe, North America, the Middle East and Asia. He has also led some of the most complex structures in the world like the World Exposition Centerpiece Venue, which will serve as "the Tour Eiffel" of Dubai for years to come.

Relevant Project Experience (Selected List)**CUNA Mutual Group, 5810 Building, Madison, WI**

Structural engineering and façade consulting services for the new 125,000-square-foot building on the CUNA Mutual Group's headquarters campus. The new building will act as the primary entrance to campus. The design contains a 500 person auditorium, a four story feature stair, and a four story atrium. The exterior wall systems feature a 60-foot-tall steel fin wall, a unitized curtain wall with terracotta and aluminum brise soliel, a custom back-lit rain screen system, and long span stick curtain wall.

University of Wisconsin - Madison, School for Computer, Data & Information Sciences (CDIS), Madison, WI

Structural engineering services for a 300,000-square-foot seven-story structure housing the computer sciences, statistics, iSchool and data sciences departments. The structure will incorporate a 350-seat and 150-seat classroom spaces, three distinct atrium monumental stairs, two bridge walkways, a green roof terrace, and a 60' long four-story cantilever section along the north-eastern corner of the building.

R1VER, Milwaukee, WI

Structural design and façade consulting services for the transformation of a six-acre site into a mixed-use development including a two-story, post-tensioned parking plinth, three office buildings, 67 multifamily units, a 103-room hotel, retail, restaurants and more than 1,000 feet of river walk. The development, occupying a prominent site in Milwaukee's revitalized Harbor District, offers more than 220,000 square feet of Class-A office space, featuring exposed structural ceilings, with Michels Corporation serving as the anchor tenant.

Education

M.Eng., Civil Engineering
Cornell University
Ithaca, NY

M.S., Civil Engineering
Marquette University
Milwaukee, WI

B.S., Civil Engineering
Marquette University
Milwaukee, WI

B.S., Mechanical Engineering
Marquette University
Milwaukee, WI

Registrations

Licensed Structural Engineer in IL
Licensed Professional Engineer in WI, CA, FL, MI, MN, OH
LEED AP
Chartered European Structural Engineer
Structural Engineering Certification Board
Chartered Member and Fellow,
Institution of Structural Engineers
Fellow, Institution of Civil Engineers
Fellow, American Society of Civil Engineers

Professional Affiliation

Chair, Tall Buildings Committee,
American Society of Civil Engineers
Committee Member, Aesthetics in
Design, Structural Engineering Institute
(SEI)
ACI 363 High-Strength Concrete Voting
Member
American Concrete Institute (ACI)
American Institute of Steel Construction
(AISC)
Chicago Committee on High Rise
Buildings
Council on Tall Buildings and Urban
Habitat (CTBUH)
Organizing Leader, Tall Buildings Task
Group, The Institution of Structural
Engineers
American Society of Civil Engineers
(ASCE)
Structural Stability Research Council
(SSRC)

Professional Experience

Thornton Tomasetti
2004-Present

THORNTON TOMASETTI PERSONNEL

ERIC WHEELER, SE

Vice President, Project Manager
Over 15 Years of Experience

Eric Wheeler joined Thornton Tomasetti in 2007 and has over 15 years of experience in adaptive reuse, structural rehabilitation and new building construction. His portfolio includes cultural, higher education, commercial, residential and critical facilities projects. Eric works closely with architects, owners, building managers and contractors to deliver quality work on time.

Relevant Project Experience (Selected List)**Chicago Architecture Biennial Pavilion, Chicago, IL**

Structural engineer-of-record for the CLT timber pavilion featured at the 2015 Chicago Architectural Biennial. The one-story pavilion features a 56-foot-by-56-foot square cross-laminated timber roof supported by 13 glulam columns. Our scope included a peer review of the structural system, design of the foundations, and support during a one-week construction period prior to the opening of the Biennial.

Pierscape II at Navy Pier, Chicago, IL

Structural engineering for the second phase of major renovations to Chicago's historic Navy Pier including Polk Brothers Park and Pier Park. The project scope included site structures, free-standing kiosks and a two-story building that also houses controls for a Ferris Wheel at Pier Park. At Polk Brothers Park, we provided the structural design for two 26 foot by 40 foot performance stages, standard kiosk, site structures and foundations for 50-foot tall light poles.

People's Energy Welcome Pavilion, Navy Pier, Chicago, IL

Structural engineering for a one-story, 4,000-square-foot facility located in Polk Brothers Park. The building was designed to welcome guests and offer a variety of information to navigate Navy Pier. The concrete frame building features a two-way flat plate sloping roof with a 10-foot cantilever, that supports an extensive green roof system.

Centennial Wheel, Navy Pier, Chicago, IL

Structural engineering, construction coordination, and overall project management for the replacement of the existing 150-foot tall Ferris wheel at Navy Pier. The project's scope includes coordination of structural design from schematic design through construction documents, collaboration with the new Ferris Wheel design team and the coordination of different design teams covering various trades. The new Ferris wheel is nearly 200 feet tall.

Navy Pier, Family Pavilion and South Arcade Renovation, Chicago, IL

Structural design of the renovation to two areas of Navy Pier. The renovation consists of replacement and reconfiguration of stairs and escalators, a new entrance, a new two-story curtain wall, a new restroom and drop-off atrium, floor leveling and accommodations for new MEP systems.

Education

M.S., Civil Engineering
Purdue University
West Lafayette, IN

B.S., Architectural Engineering
Tennessee State University
Nashville, TN

Registrations

Licensed Structural Engineer in IL

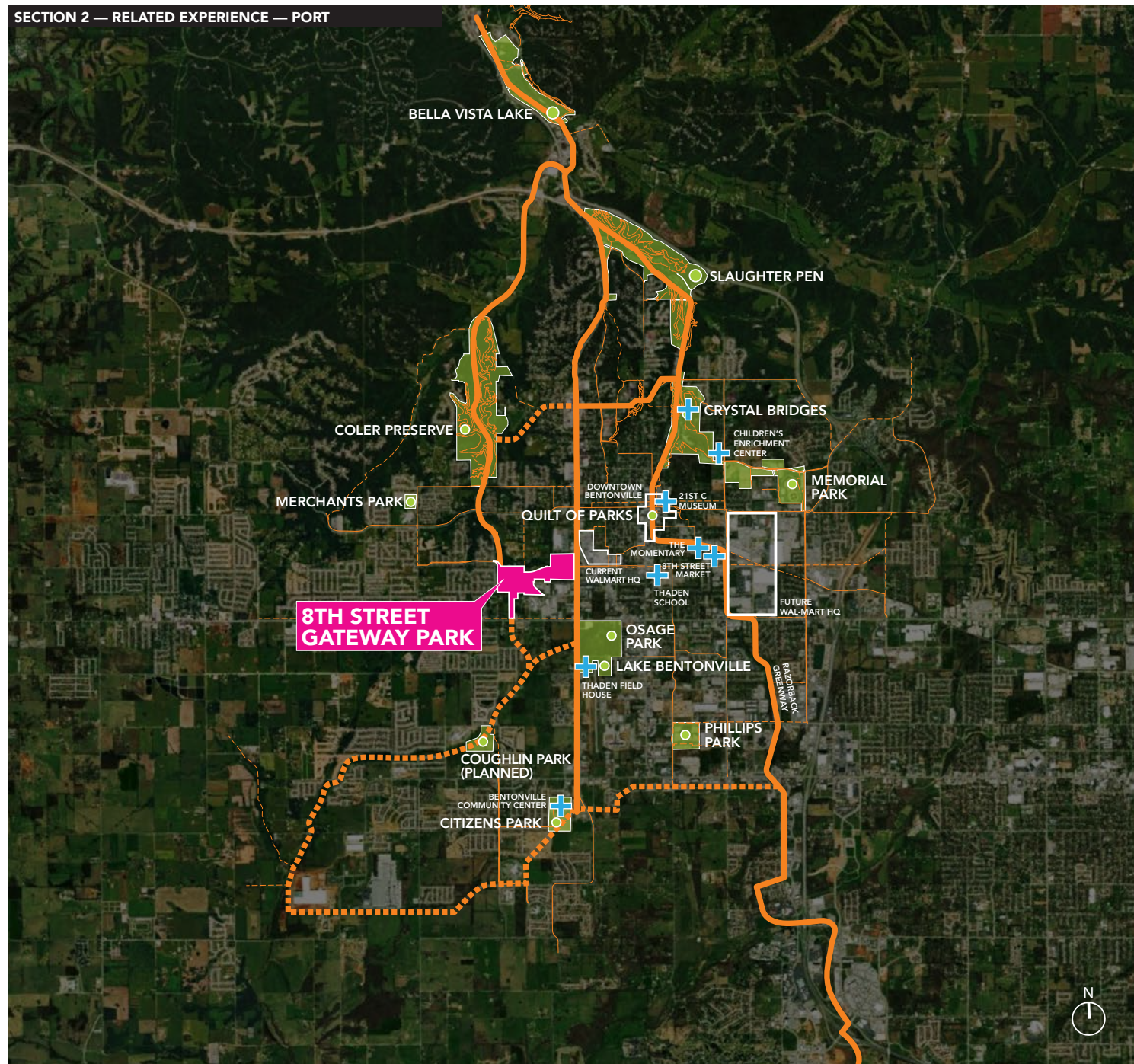
Professional Affiliation

American Institute of Steel
Construction (AISC)
Structural Engineers Association of
Illinois (SEAOI)

Professional Experience

Thornton Tomasetti
2007-Present

Milwaukee Metropolitan Sewerage
District
2002-2005



8TH ST. GATEWAY PARK

Bentonville, AR

Bentonville Parks and Recreation +
The Walton Family Foundation

110-Acres

2019-2020 Master Plan
2021-2022 SD through CD

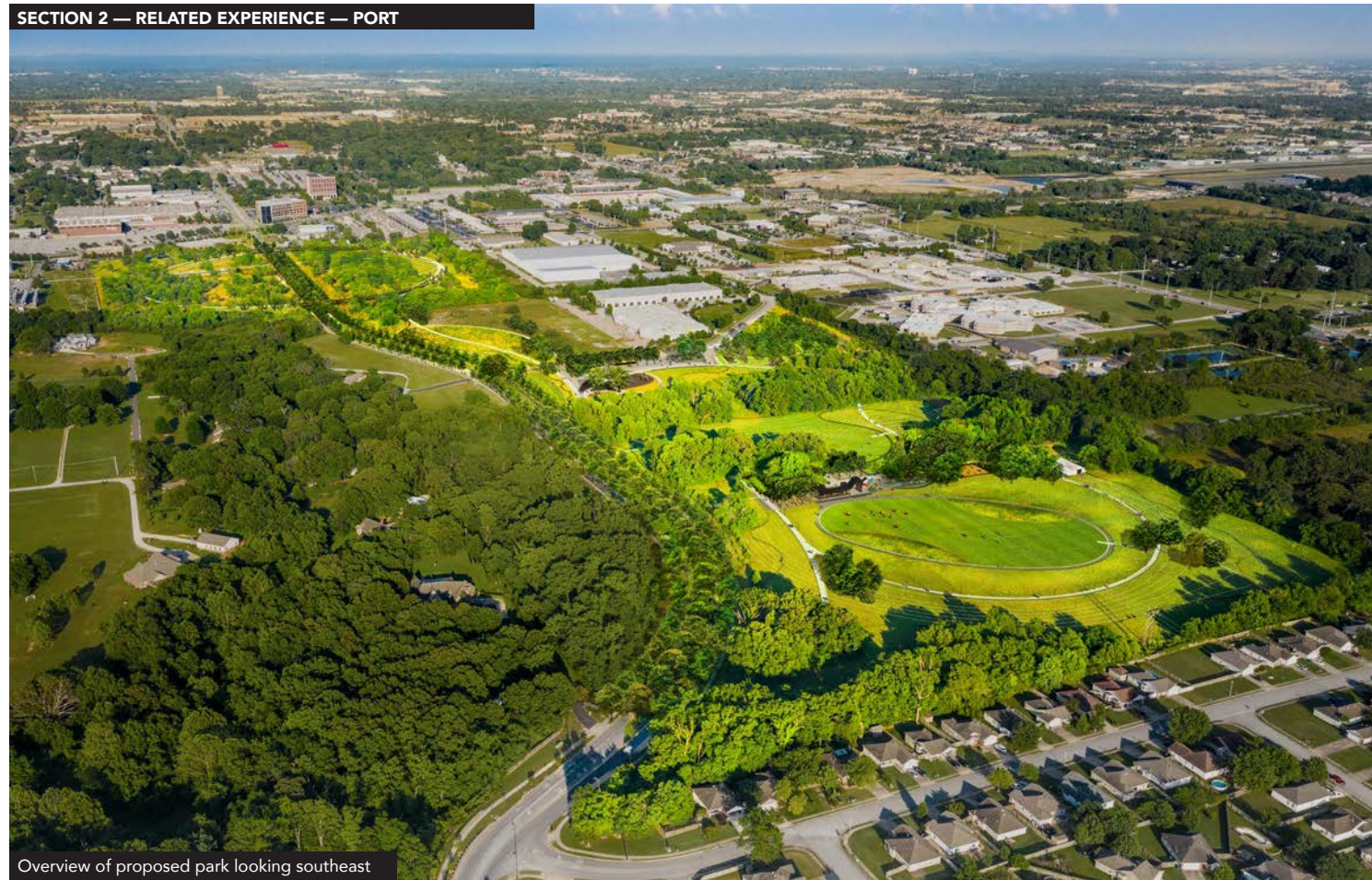
\$35M Park Budget

2022 ASLA PA-DE Merit Award
2020 AIA Philadelphia Honor Award

In Fall of 2019, PORT was selected by the City of Bentonville and the Walton Family Foundation Design Excellence Program to plan, design and implement the city's new 110-acre 8th Street Gateway Park. The project is intended to be the centerpiece of the Bentonville Parks System, and the western anchor of a nearly completed 25-mile multi-use trail system that rings the city.

With Bentonville nearly doubling in population over the last decade, the 8th Street Gateway Park is envisioned to serve both nearby residents in recently developed areas of the city, as well as regional audiences who come to Bentonville for the extensive mountain biking and fine art venues (Crystal Bridges and the Momentary). The design combines active and passive recreation venues, including a large public gathering space known as The Porch, a variety of mountain bike skills trails, enhanced meadows and flood plains, and a newly reconstructed 8th Street.





Overview of proposed park looking southeast



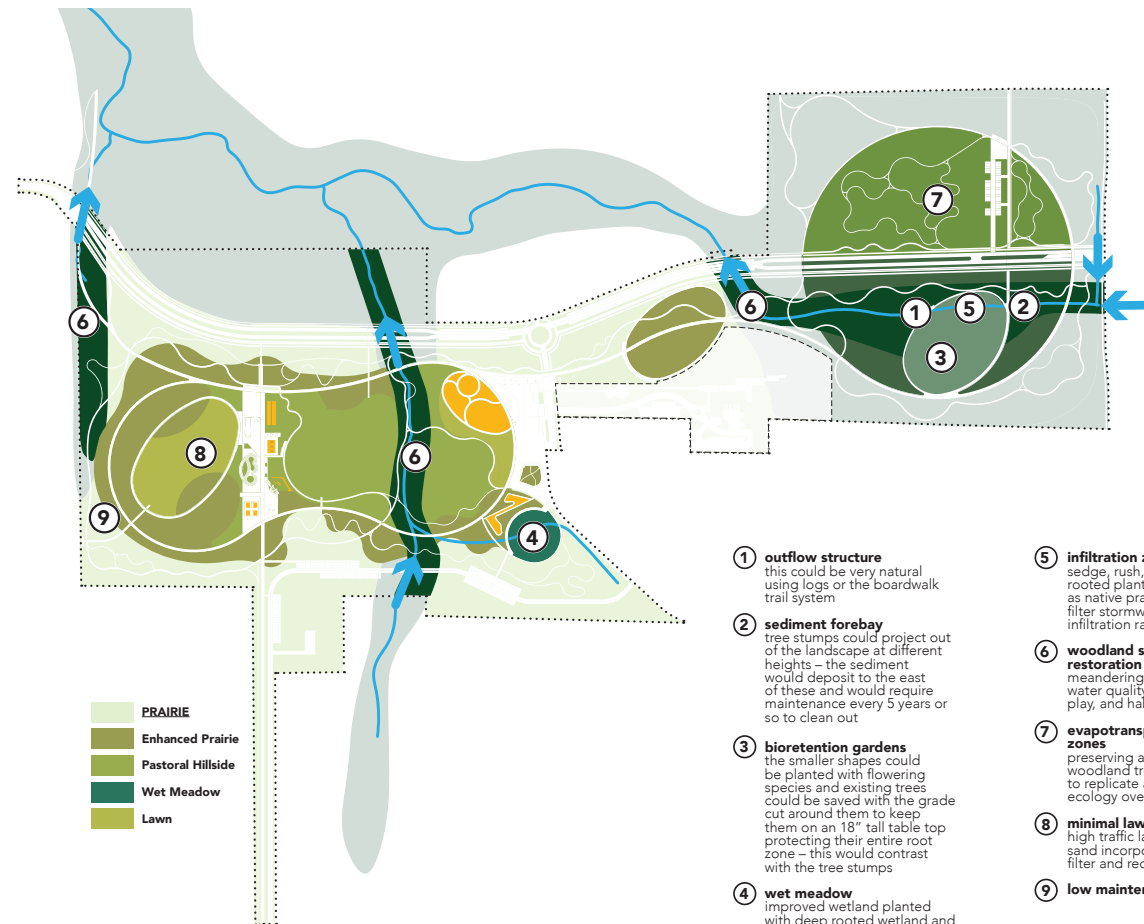
West Park — Hillside Pasture Trailhead



Park Core — Destination Playground



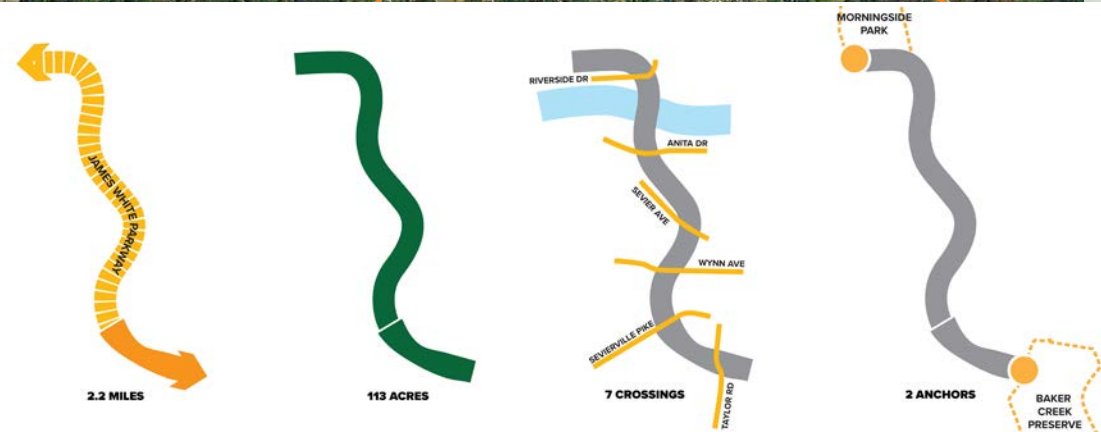
West Park — Neighborhood Pavilion + Strider Course



- WOODLAND**
- Woodland Stream
- Floodplain Woodland
- Filtration Gardens
- Upland Woodland
- Creeks + Streams

- PRAIRIE**
- Enhanced Prairie
- Pastoral Hillside
- Wet Meadow
- Lawn

- 1 outflow structure**
this could be very natural using logs or the boardwalk trail system
- 2 sediment forebay**
tree stumps could project out of the landscape at different heights – the sediment would deposit to the east of these and would require maintenance every 5 years or so to clean out
- 3 bioretention gardens**
the smaller shapes could be planted with flowering species and existing trees could be saved with the grade cut around them to keep them on an 18" tall table top protecting their entire root zone – this would contrast with the tree stumps
- 4 wet meadow**
improved wetland planted with deep rooted wetland and wet prairie plants
- 5 infiltration zones**
sedge, rush, and deep rooted plant material such as native prairie grasses to filter stormwater and increase infiltration rates
- 6 woodland stream restoration practices**
meandering stream beds - water quality improvement, play, and habitat
- 7 evapotranspiration zones**
preserving and adding native woodland trees of the Ozarks to replicate a diverse forest ecology over time
- 8 minimal lawn bio mats**
high traffic lawn areas to have sand incorporated to act as a filter and reduce wear
- 9 low maintenance fringe**

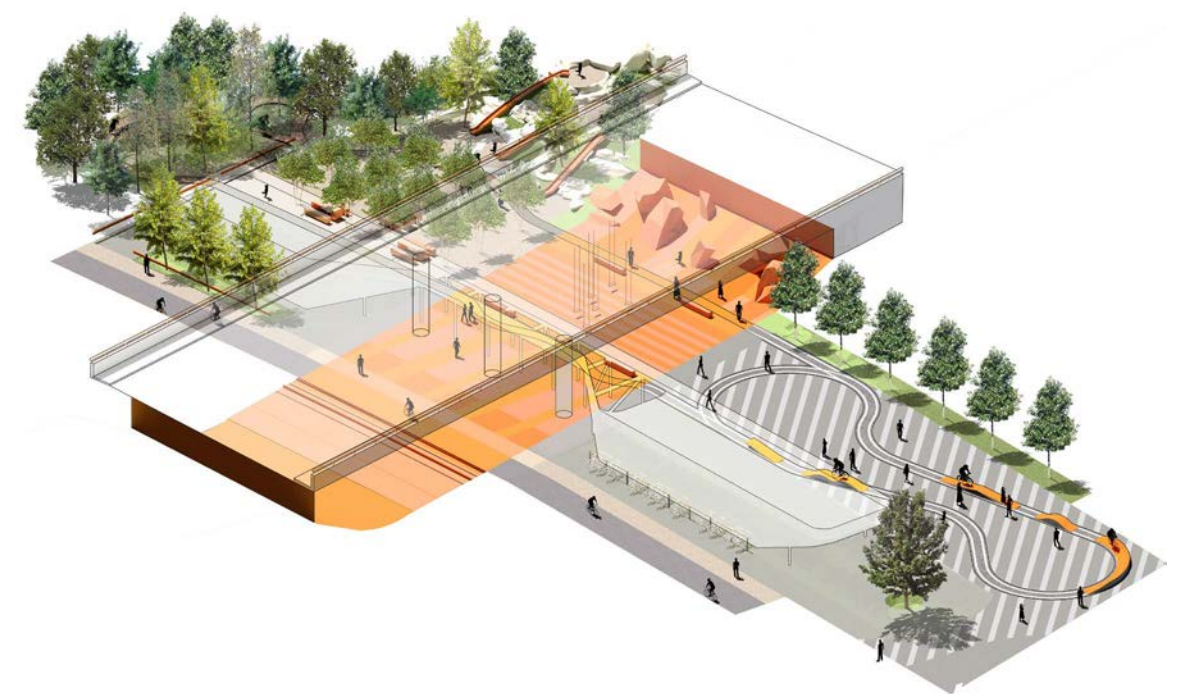


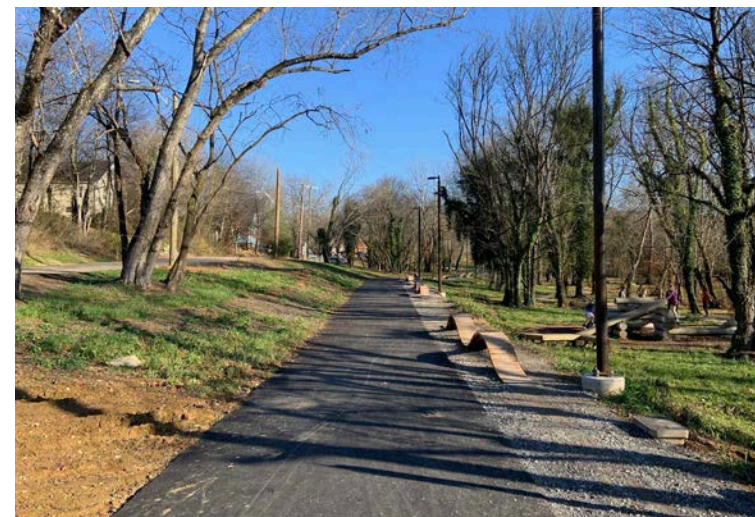
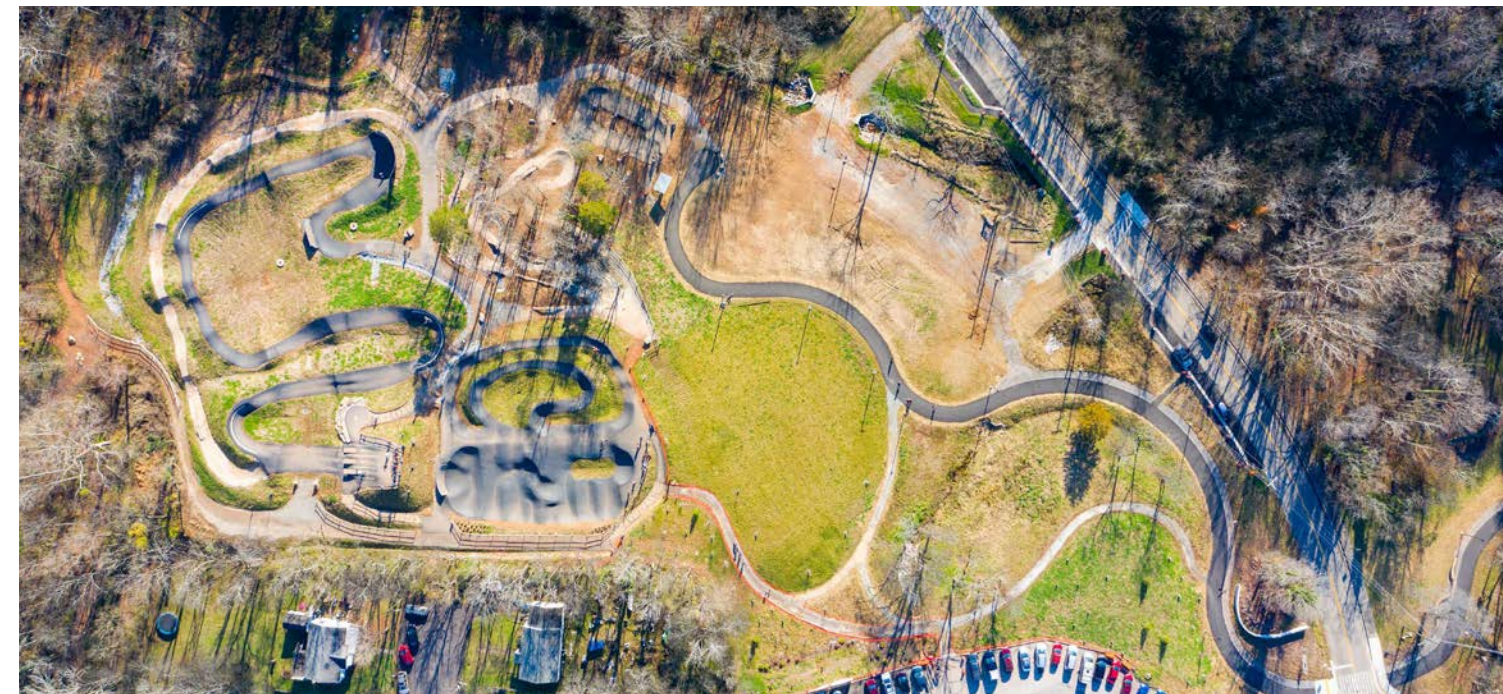
URBAN WILDERNESS GATEWAY PARK*

Knoxville, TN
 The City of Knoxville
 2.2 miles
 2018-Ongoing
 \$25M identified in Master Plan; \$10M Phase 1 Construction
 * PORT w/ Sanders Pace Architecture
 2019 AIA Philadelphia Merit Award
 2019 ASLA Tennessee Merit Award
 2019 ASLA Illinois Burnham Award
 2019 ASLA Illinois Merit Award

In the 1980's, TDOT implemented a 2-mile portion of James White Parkway, a seldom used four-lane highway extending from Downtown Knoxville south across the Tennessee River where it terminates in a dead-end. Nearly 40-years later, PORT is leading the Urban Wilderness Gateway Park project that will transform the highway into a linear park and gateway to Knoxville's Urban Wilderness, a spectacular 1000-acre outdoor adventure area that includes over 50 miles of trails and greenways, a nature center, lakes, historic sites, dramatic quarries, adventure playgrounds, five city parks, and a 500-acre wildlife area. The overall framework plan for the Urban Wilderness Gateway is comprised of three critical layers: access and community connections, continuous programming amenities and program nodes and destinations. Access and connections define the points of entry into the park and considers improved connectivity between the park and existing neighborhood destinations to improve overall mobility in South Knoxville neighborhoods as well as across the Tennessee River. Continuous programming amenities are the elements that run the length of the corridor- trails, wayfinding, lighting, planting and ecology. Program nodes are the unique spaces and programming opportunities that punctuate the corridor.









AUGUSTA QUARRY LAKE*

Knoxville, TN

The Aslan Foundation + City of Knoxville

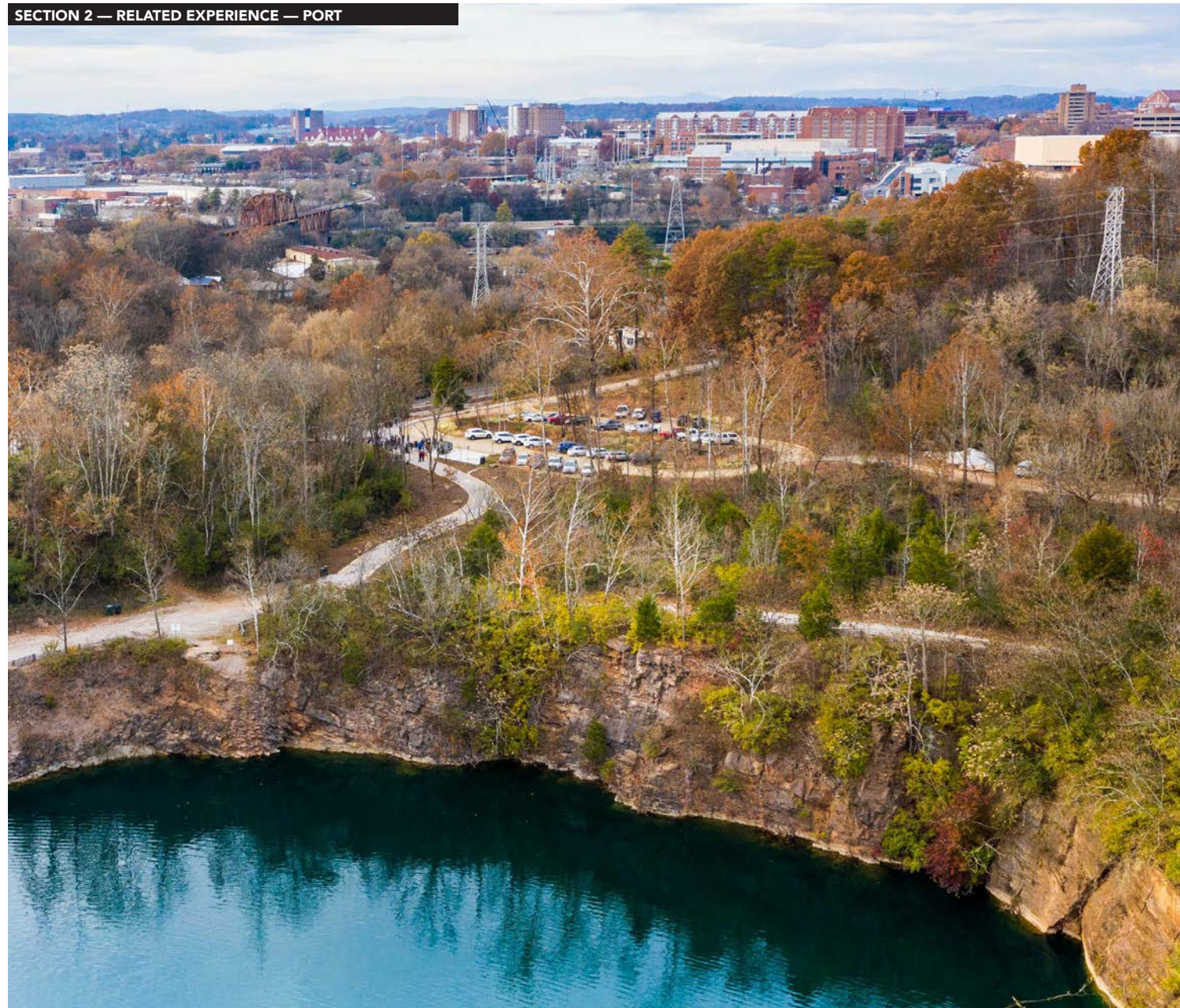
25 Acres

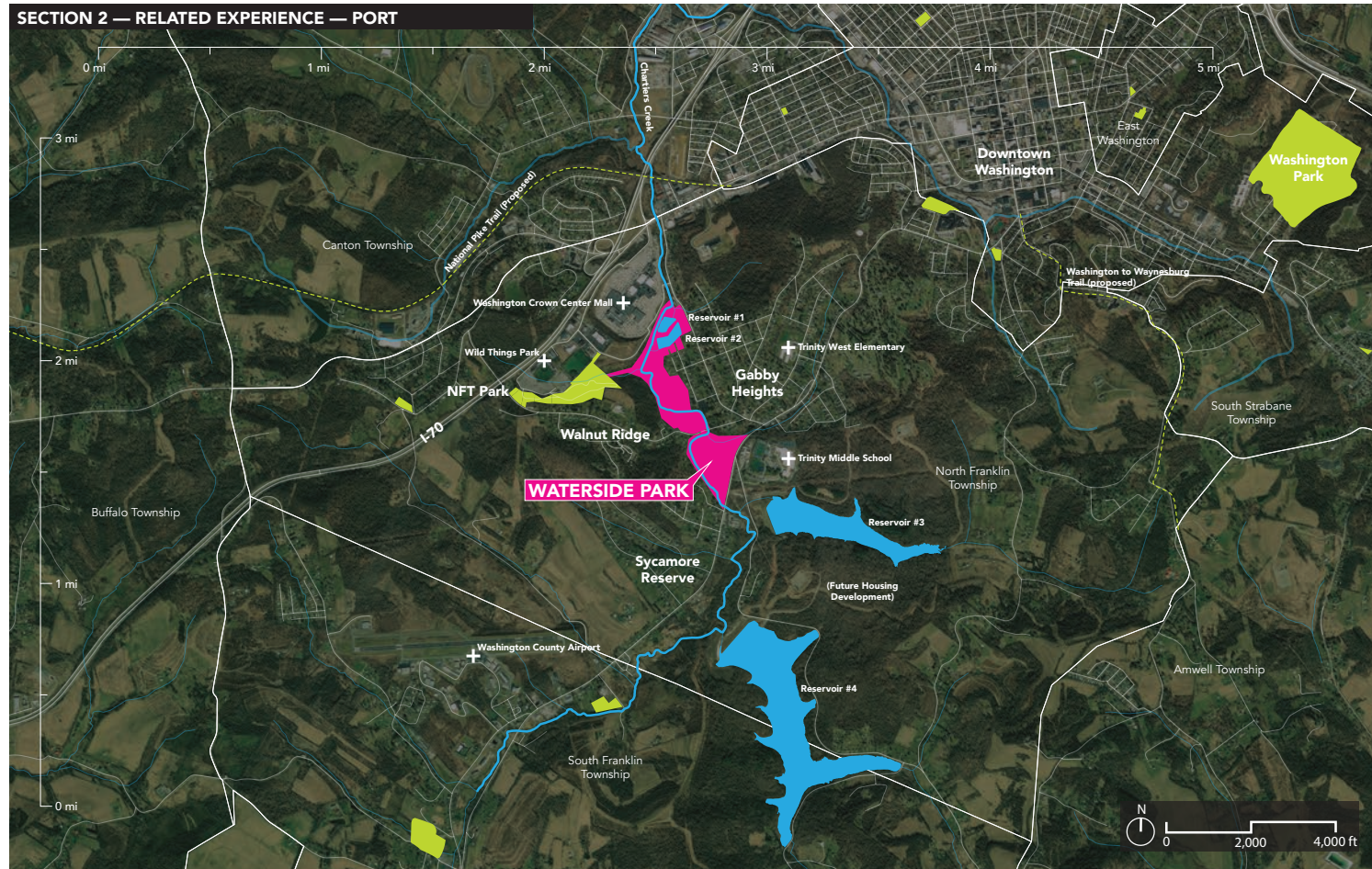
2016-Ongoing (Phase 1 in Construction; Phase 2 in Design Development)

\$8M

*Collaboration w/ Sanders Pace Architecture

Originally a 1000' high hill topped by a Union Civil War fort, the Augusta Quarry Lake site was excavated for limestone during the first half of the 20th century. By the 1970s, the quarry was closed and water no longer pumped out resulting in the creation of an 200' deep lake, which is today used by some local residents as an informal swimming venue. PORT and Sanders Pace Architecture were commissioned by the Aslan Foundation and the City of Knoxville to lead the design of enhancing the safety and access to the Quarry Lake. This work included the formalization of these activities through the introduction of a boardwalk, swimming beach, get-downs, overlooks, food kiosks and kayak/boat rentals, in addition to public parking and improved access to the water. The site's rich history, incredible scale, and dramatic views inform the priorities of PORT's design approach. The new design goes beyond mere preservation of the site, showcasing the profound character of the quarry today. To address critical safety and accessibility issues, however, the design specifies proper edge setbacks and protection, as well as accessible parking, paths, and ramps. Further, the design undertakes the ecological challenges on site—mainly the proliferation of invasive plant species—through habitat management and new planting.





WATERSIDE PARK

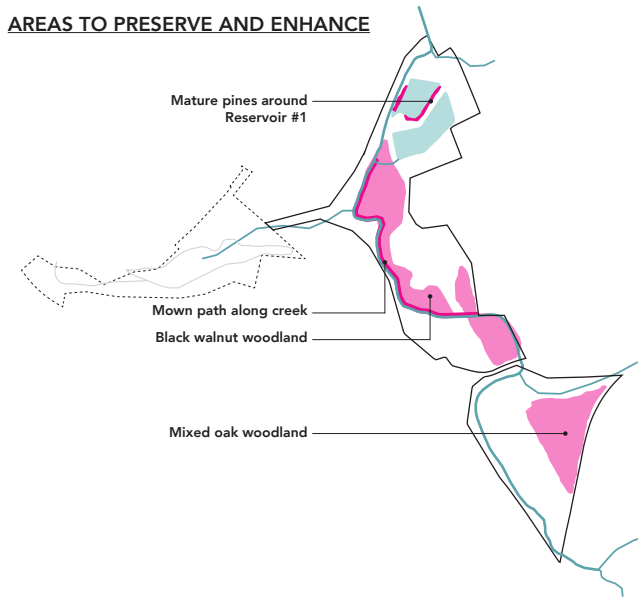
Washington, PA
 North Franklin Township Board of Supervisors, Pennsylvania Department of Conservation and Natural Resources

82-acres
 2021 Master Plan
 \$11M

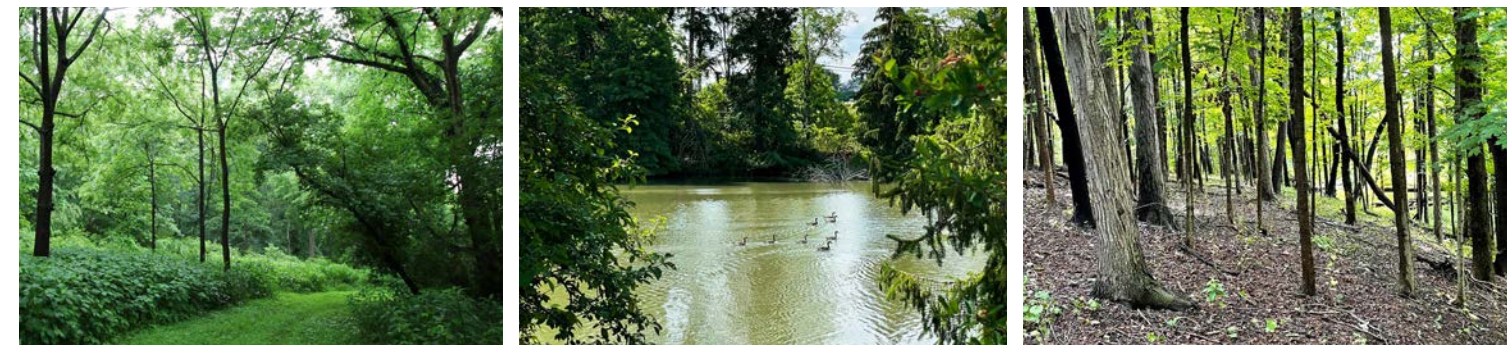
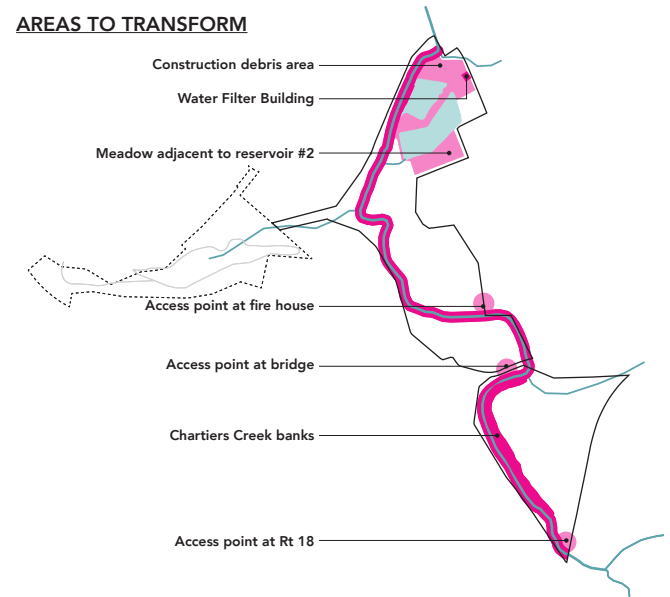
PORT is collaborating with the township of North Franklin, PA and the Pennsylvania Department of Conservation and Natural Resources on the creation of a new 82-acre regional park on the site of a former water company reservoir lands. The project, at the epicenter of Pennsylvania's fracking industry, attempts to elevate consideration of ecological assets and civic infrastructure in the public imagination of one of the most conservative counties in the state.

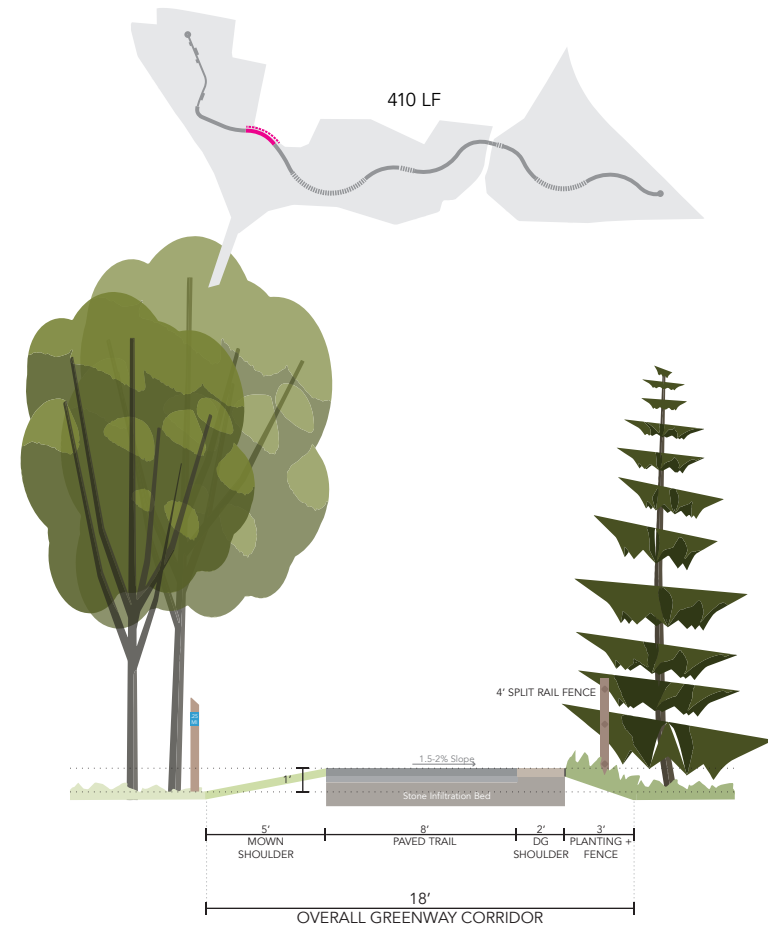
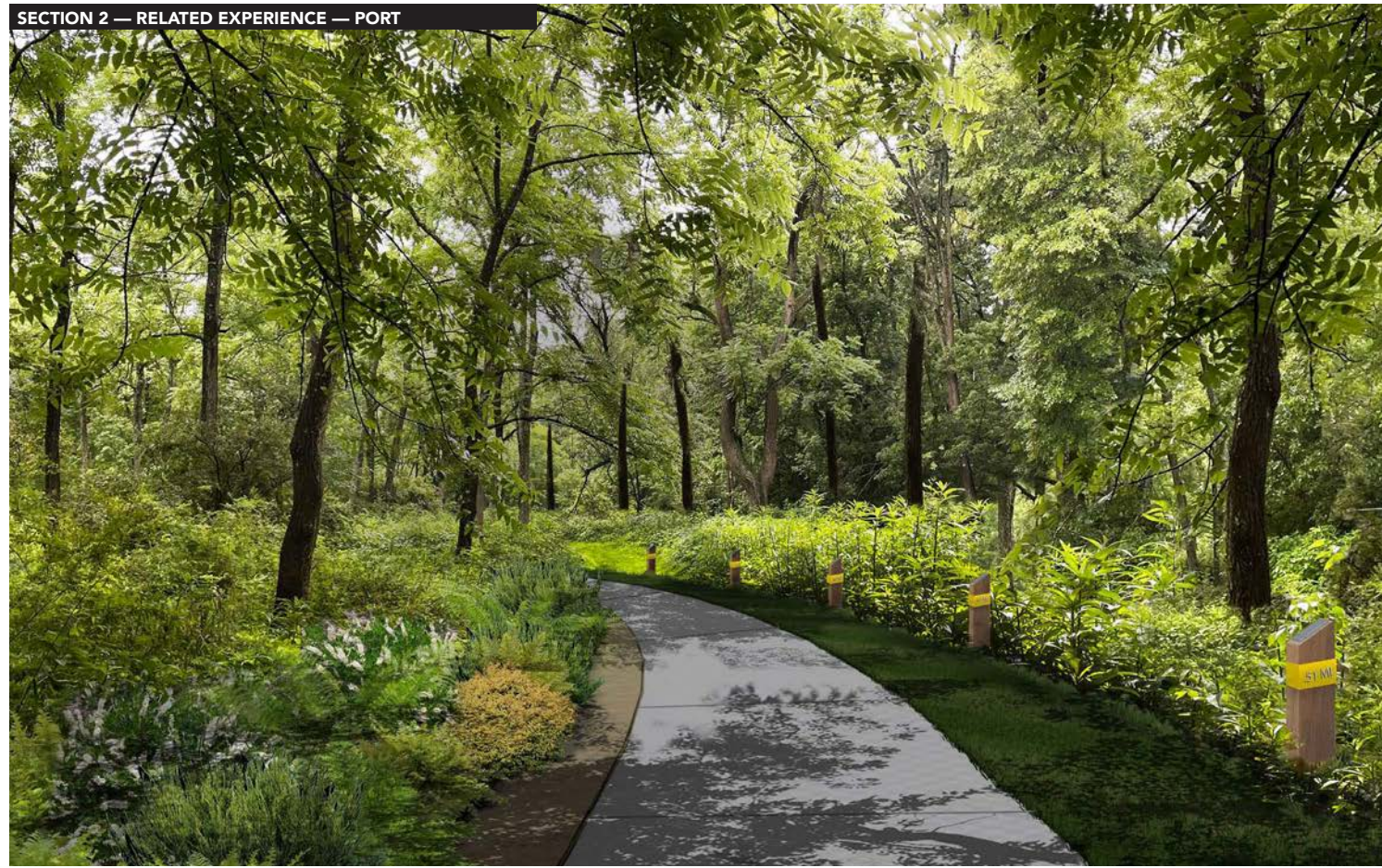


AREAS TO PRESERVE AND ENHANCE

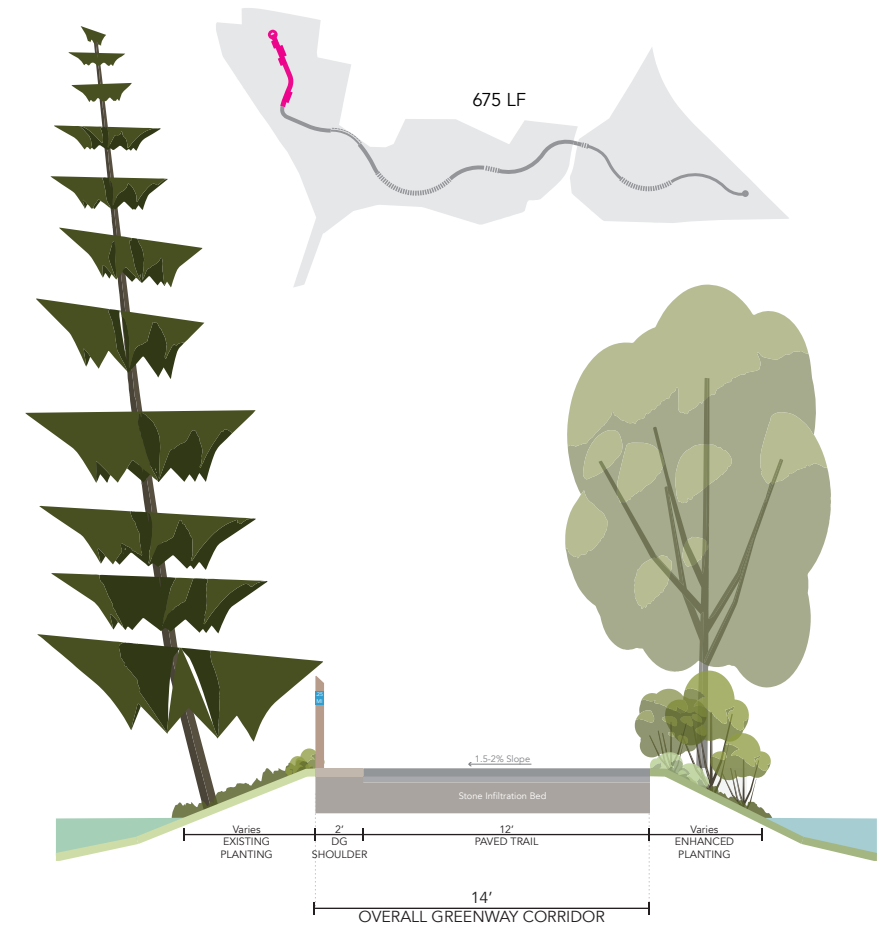


AREAS TO TRANSFORM

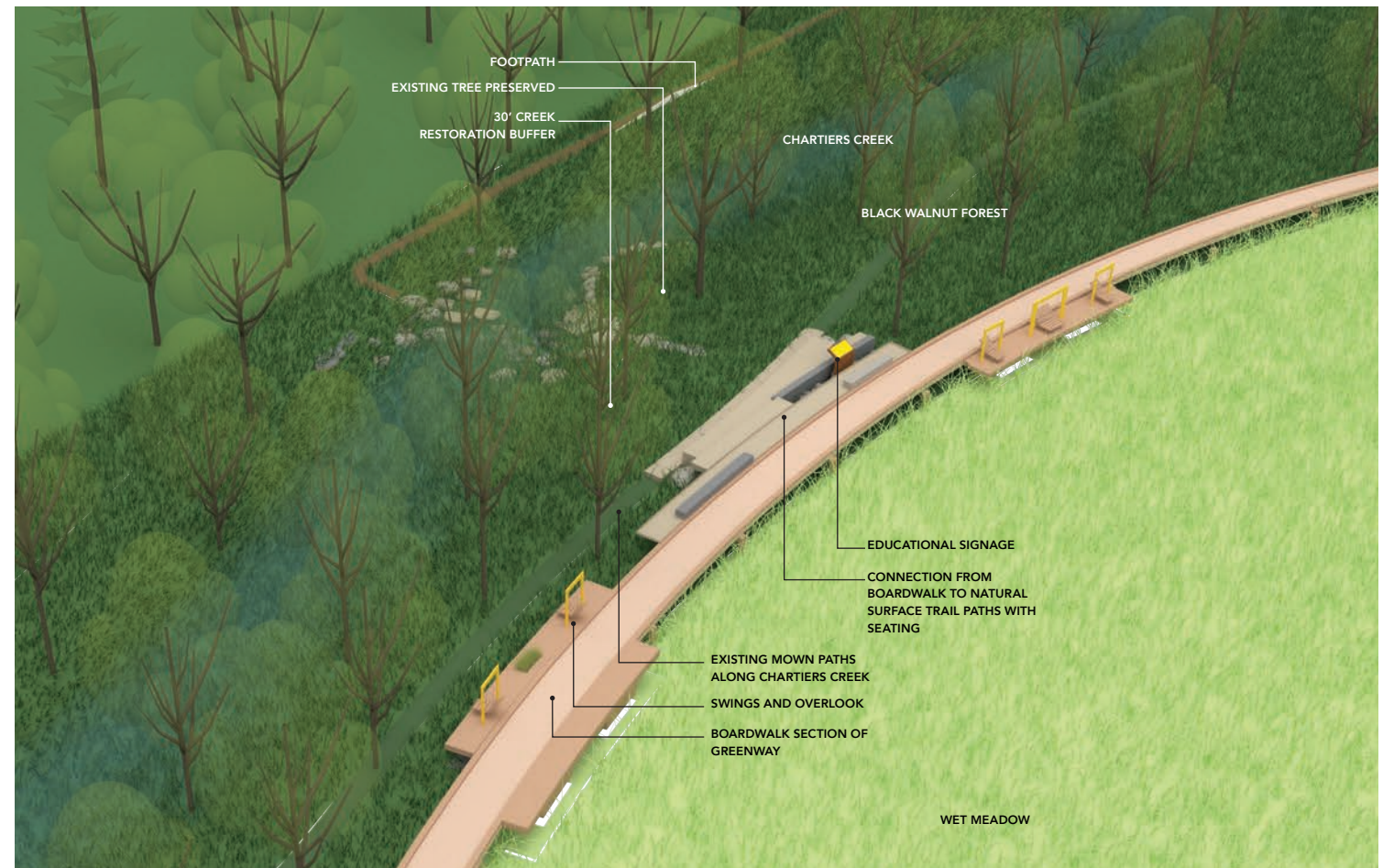
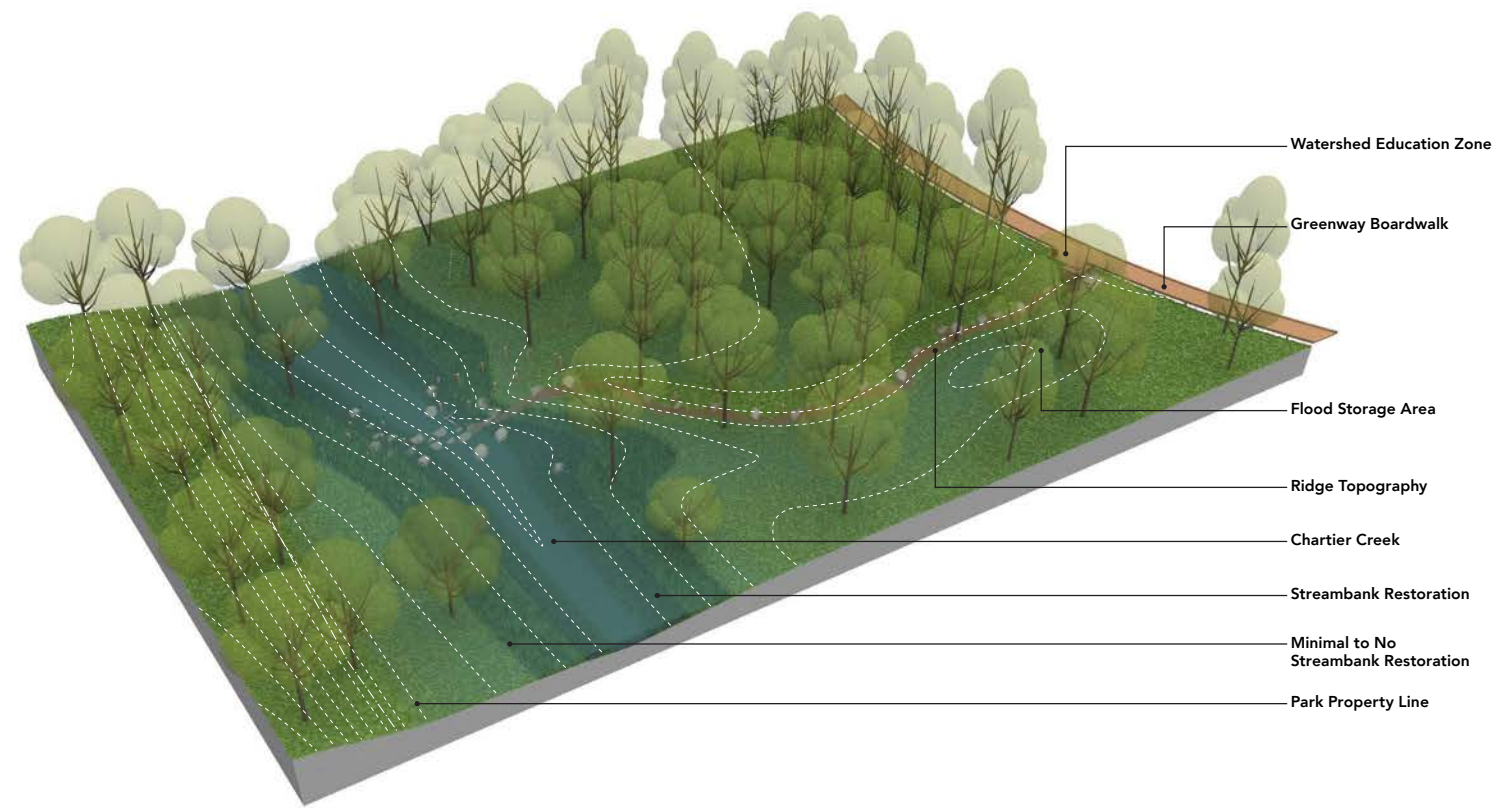
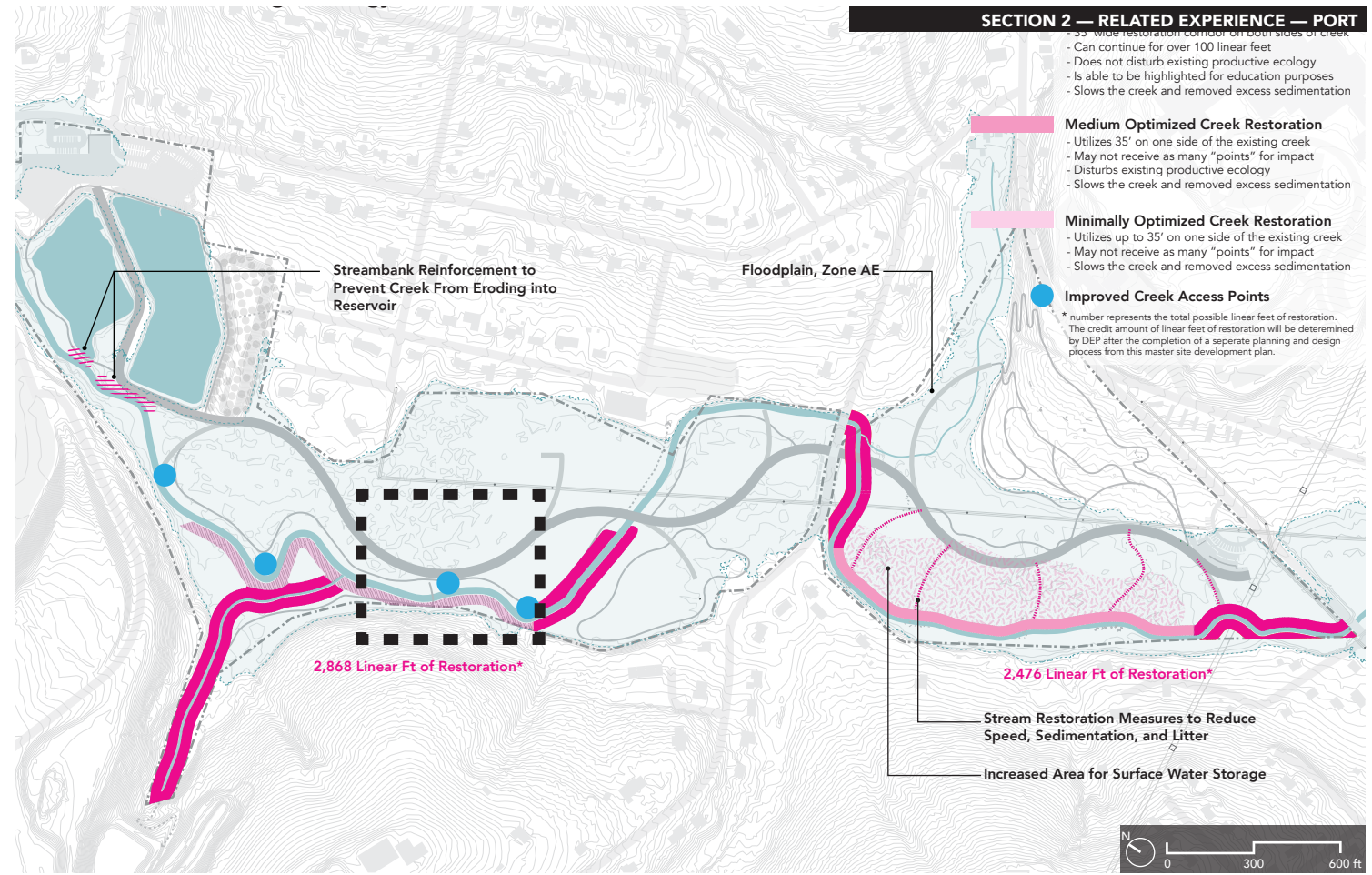
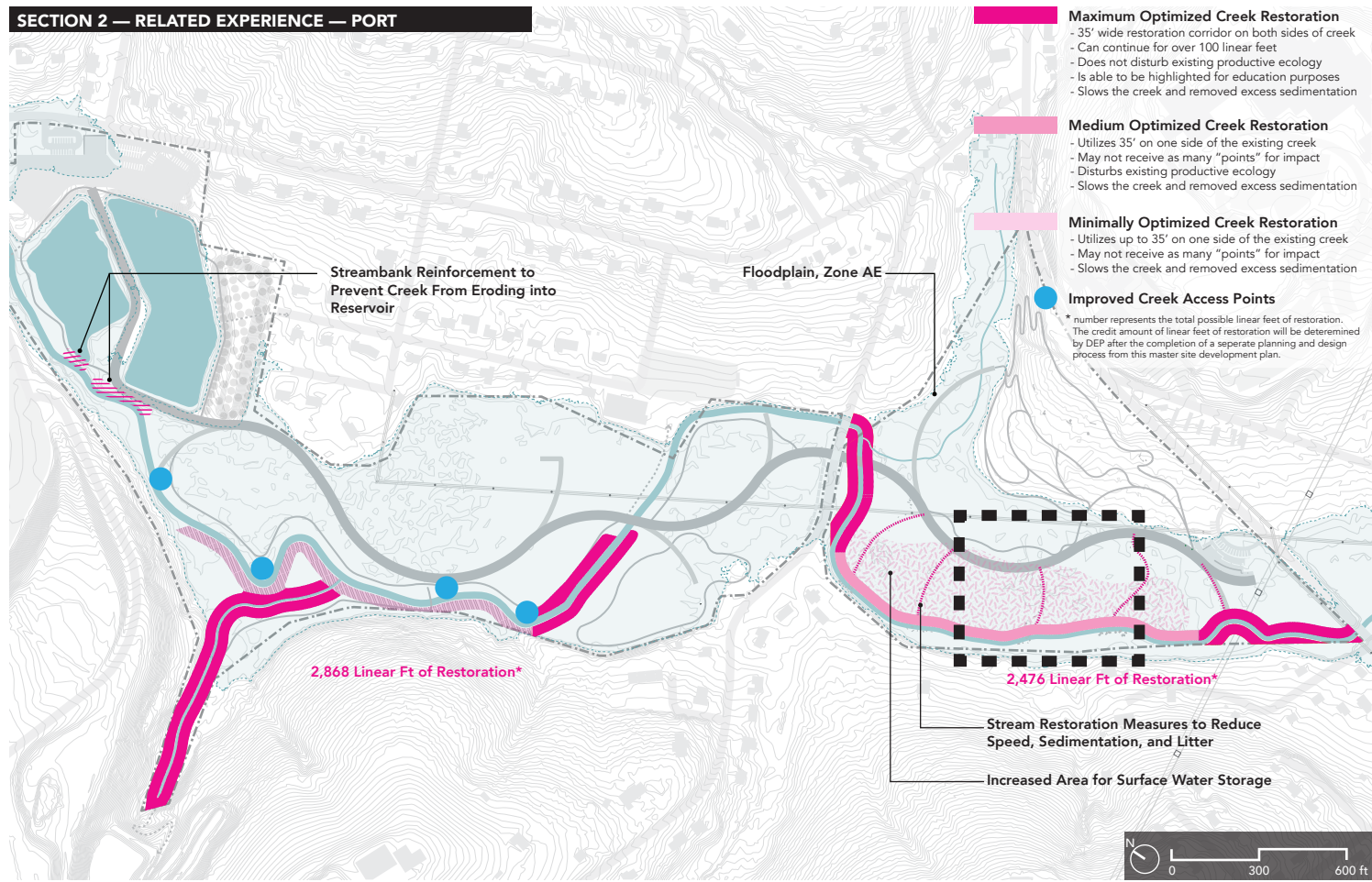




TYPICAL GREENWAY WITH SPLIT-RAIL FENCE



RESERVOIR GREENWAY





PANOWAY ON WAYZATA BAY

Wayzata, MN

Lakefront Park

20,000 sf

2015-2021

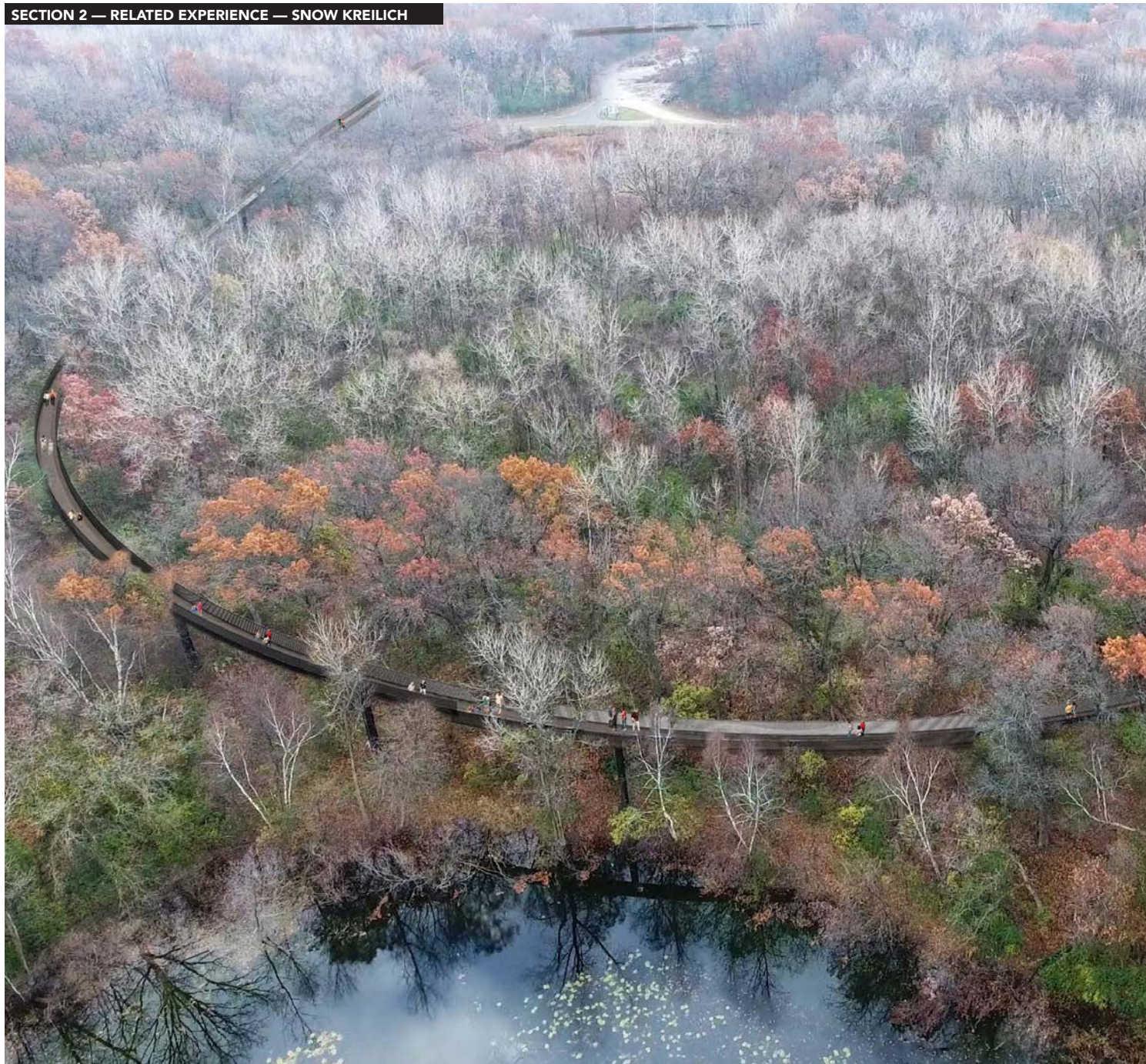
Services Provided: Architecture

Construction Cost: confidential

wayzataconservancy.org/panoway/

The design team of CIVITAS and Snow Kreilich Architects was selected by the City of Wayzata for Panoway on Wayzata Bay—a multi-phased revitalization of Wayzata's lakefront. The lakefront was redesigned to be more pedestrian and bicycle friendly, with a signature urban park replacing the Broadway Municipal parking lot. The year-round park space will include café seating, a retail kiosk, landscaping, and shade trees to create a relaxed urban experience with expansive views of Lake Minnetonka. The space will be highly adaptable to support a variety of community events. Panoway grew out of the work of the Lake Effect Initiative, which spent nearly a decade evaluating the needs of the community by soliciting input from thousands of people through years of public and private events, meetings and conversations. The multi-phase project will transform the public shoreline on Lake Minnetonka, enhancing the lakefront experience and preserving it for years to come.

Phase one included reconstructing Lake Street from Barry Avenue to Broadway Avenue to be more pedestrian and bicycle friendly; creating a beautiful, multi-use Plaza Park near the lakefront; replacing the existing surface parking lot at Lake Street and Broadway Avenue; and extending the Dakota Rail Regional Trail safely across Ferndale Road to Broadway Avenue. Future phases include creating a living classroom by restoring the Section Foreman House, preserving the Wayzata Depot, building a boardwalk along the lakefront, and restoring the shoreline.



MN ZOO TREETOP TRAIL

Apple Valley, MN

Zoo Walking Trail

1.25 mile loop

2016 – 2023 (anticipated)

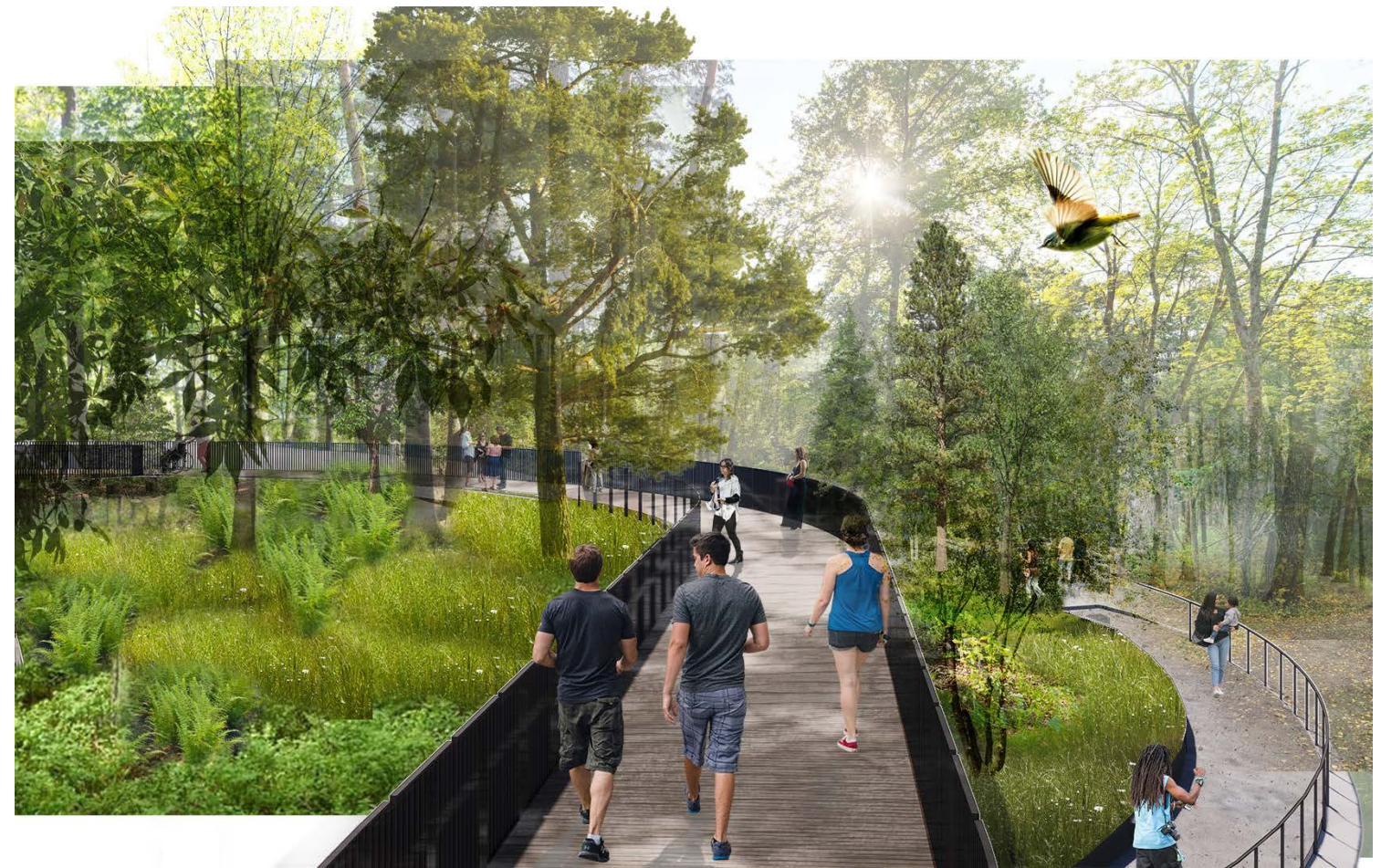
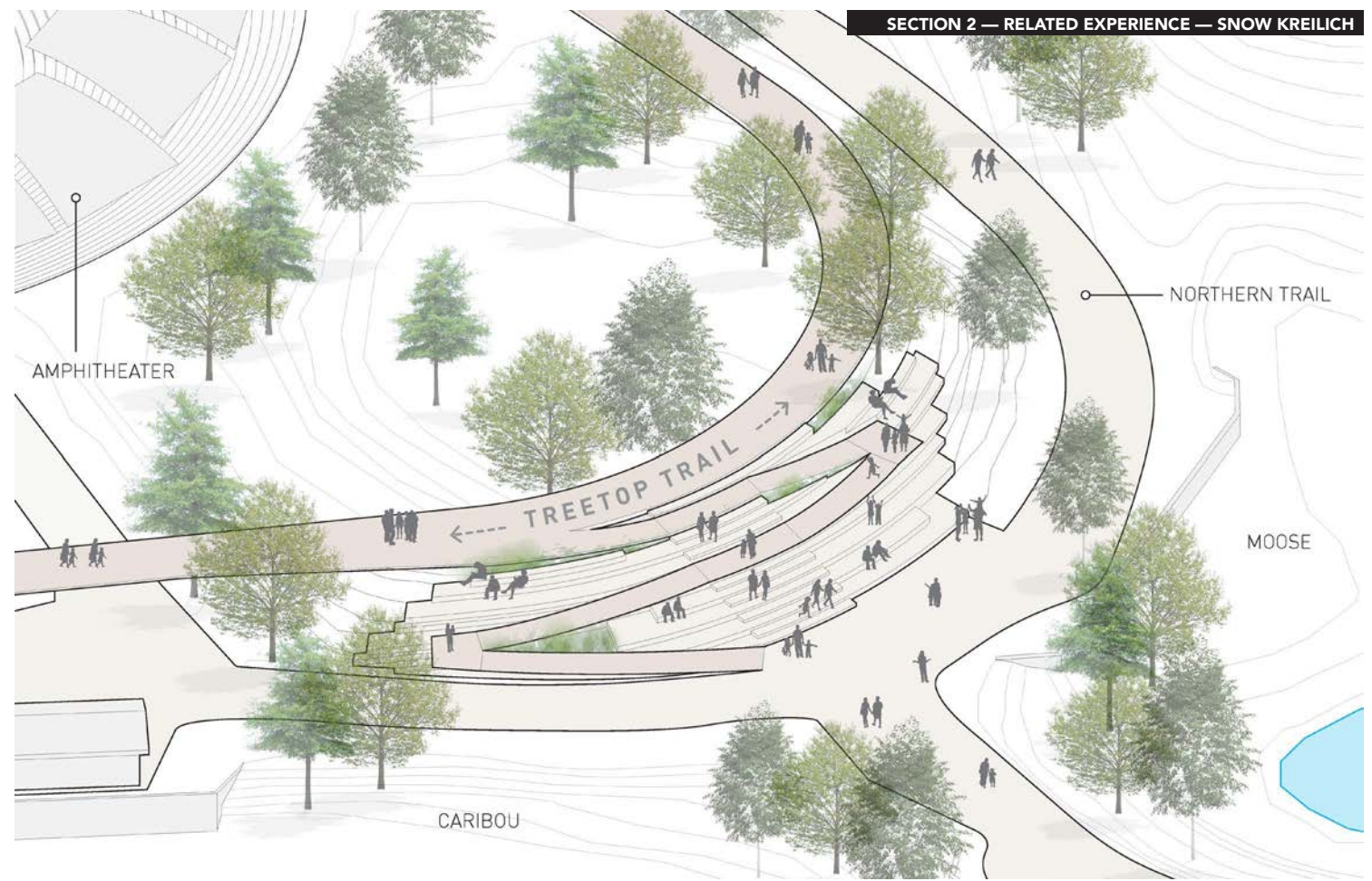
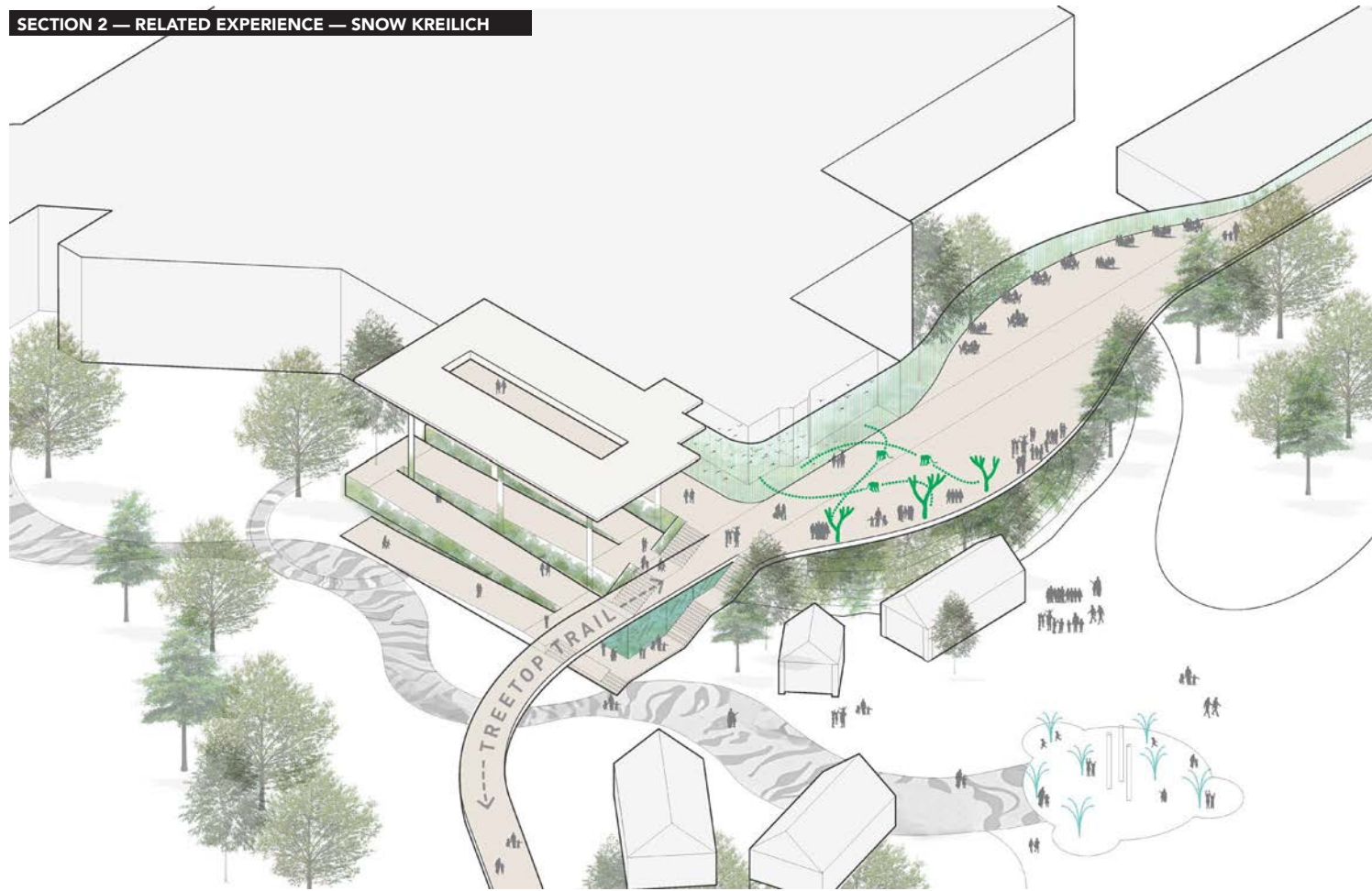
Services Provided: Architecture

Construction Cost: TBD

Snow Kreilich Architects has been collaborating with the MN Zoo since 2016 to reimagine its existing monorail infrastructure as the basis for a new elevated pedestrian walkway and viewing platform that links the exhibits in the south with the undeveloped, forested environment of the Northern portion of zoo property. First contracted for a feasibility study, Snow Kreilich Architects collaborated with Buro Happold to investigate structural capacity of the existing infrastructure. In this phase, Snow Kreilich developed a conceptual framework for the project with maps, diagrams, and renderings of the newly imagined Tree Top Trail. This documentation became the basis for a successful marketing and fundraising campaign.

Now in the Schematic Design phase, Snow Kreilich has again partnered with Buro Happold for structural design, and to complete the design and documentation for the construction of this transformative trail. Not only an elevated walkway with shading structures, bird blinds, and overlooks, the 1.25-mile-long trail incorporates five distinct "Access Points" which enhance the user experience, introduce the visitor to the Treetop Trail and overall mission of the Zoo, accessibly bring them to the trail elevation, and provide opportunities for respite, wayfinding, interpretation, and enhanced engagement of Zoo programming and exhibits.







COWLES CONSERVATORY RENOVATION AT THE MINNEAPOLIS SCULPTURE GARDEN

Minneapolis, MN

Urban Park Conservatory

8,000 sf (conservatory) + 900 sf (restroom)

2014-2017

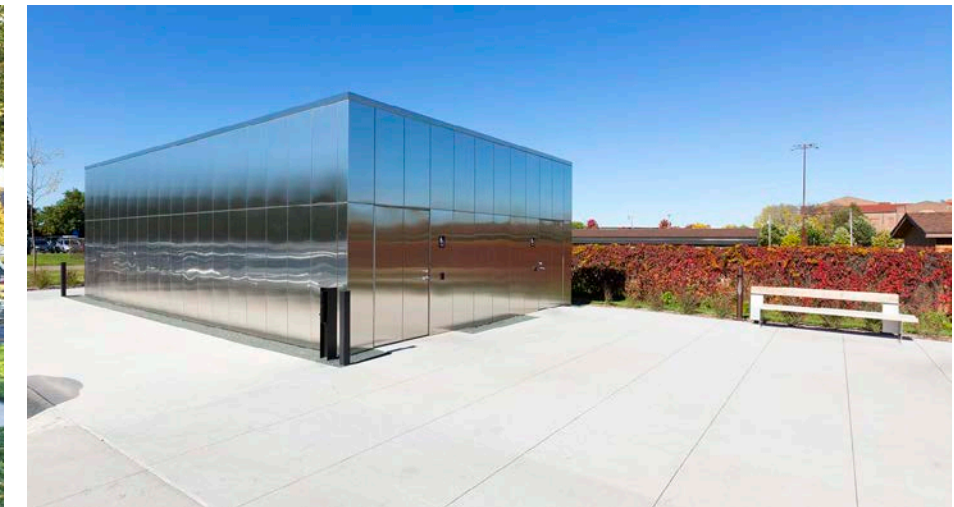
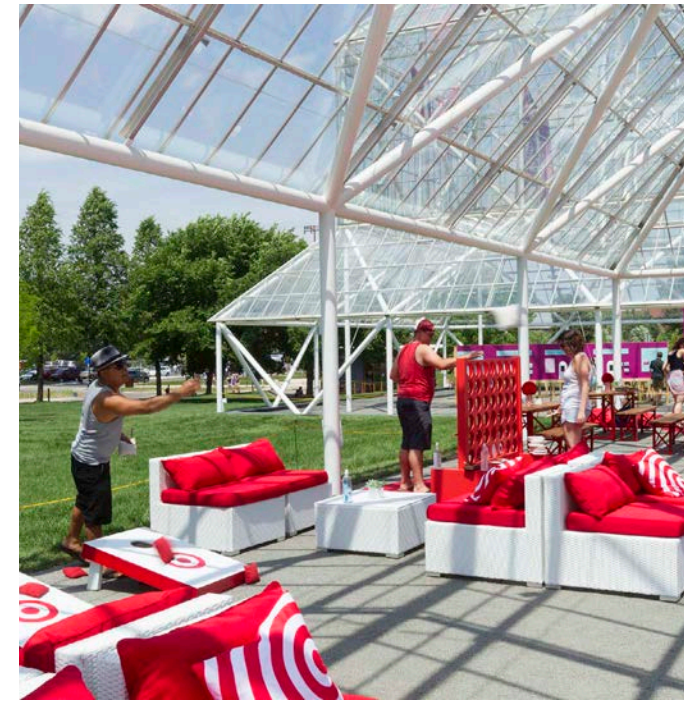
Services Provided: Architecture

Construction Cost: \$1.5 million

The Minneapolis Sculpture Garden and Cowles Conservatory, jointly operated by the Minneapolis Parks Department and the Walker Art Center, needed a radical makeover. The project engaged issues of current strategies for artistic production and exhibition, environmental sustainability, urban connectivity, and city parks operations. Working with Oslund and Associates (now O2) as project leaders, Snow Kreilich Architects collaborated on the conceptual design direction and the Cowles Conservatory renovation.

The Cowles Conservatory, a single-glazed greenhouse built almost 30 years ago, was an operating burden on the Parks Department and did not easily accommodate new works of art or community events. The brick paving floor system had settled into the poor subsoils of the former marshland to such a degree that the building was no longer fully accessible. The only restrooms serving the 13-acre sculpture Garden were housed within the Conservatory and needed mechanical and accessibility upgrades.

Our sustainable strategy was to recreate the conservatory as an open-air social space, a place to rest, connect with other patrons, house events and group uses within the garden. By removing the vertical glass walls and the restrooms connecting the three pavilions, the space becomes more embedded in the experience of the gardens and the art. Expanded accessible restrooms were added at the garden perimeter.





GRACO PARK

Minneapolis, MN

Public Park + River Walk

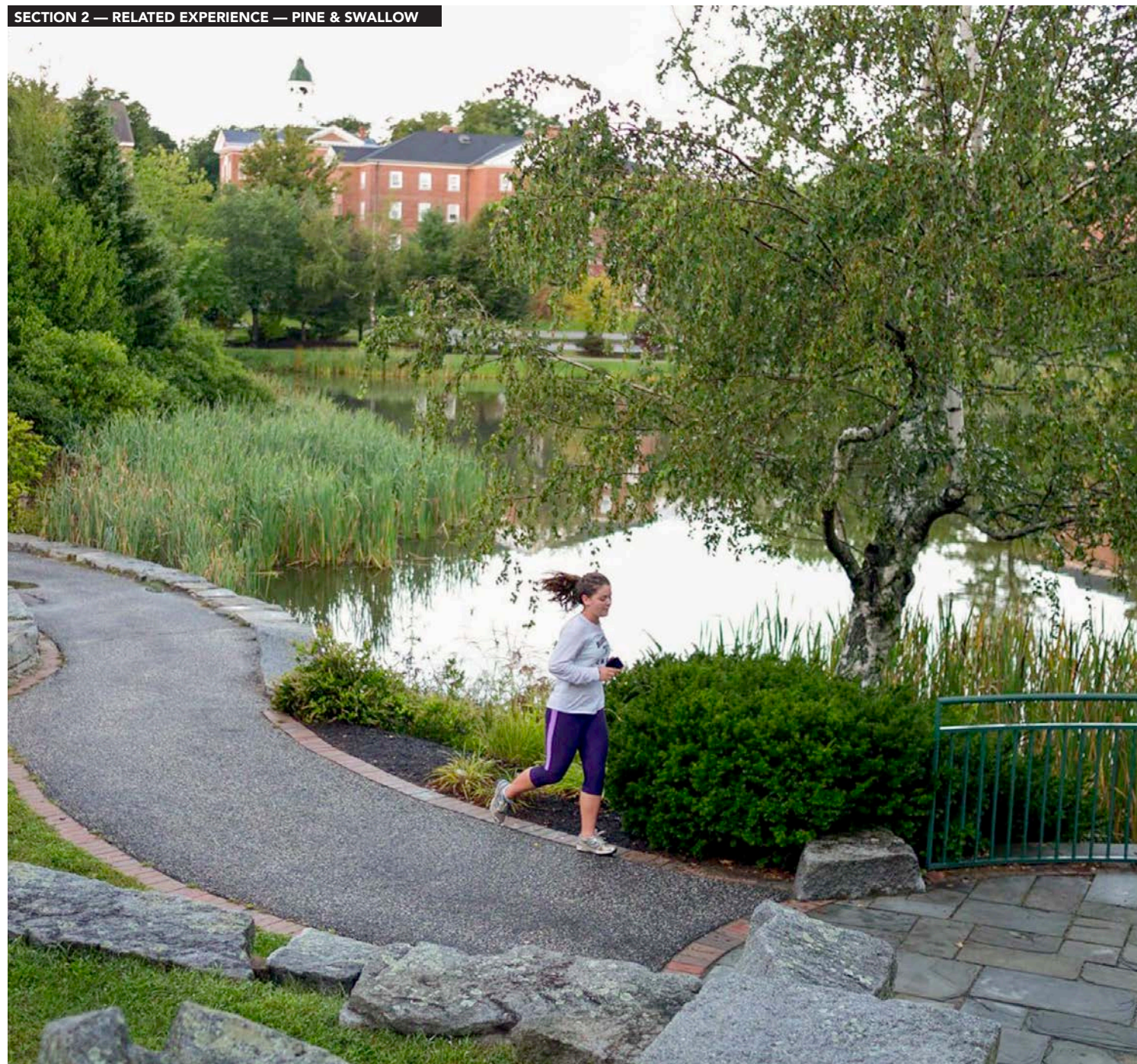
5,800 gsf

2021 – 2024 (anticipated)

Services Provided: Architecture

Construction Cost: \$4.2M

Graco Park is designed to acknowledge and celebrate the river and Hall's Island. The design reflects patterns of the river to inform spaces and landscape types. Five main features define the park: two broad tree-lined promenades, a river walk, a flexible green, and a building/plaza zone. The southern promenade leads from the corner of Sibley and Plymouth down to a boardwalk and boat rental shelter at the water's edge. At the river, a walk defines seating areas, habitat structures, high canopy forest, and plantings. The river walk terminates on the north portion of the site at a river gathering space and the Hall's Island promontory that feature panoramic views of the city skyline and Hall's Island. Leading east from the overlook, the regional trail defines the edge of the flexible green space. The building overlooks the flexible green and has two main gathering spaces surrounding it. On the north side is a performance green with seating and on the south side a plaza is defined with stormwater features, benches, a sculptural water feature, and shelter. The Graco Park building houses three distinct multi-purpose spaces: one, a large open space intended for flexible uses such as performances, fitness classes, community meetings and workshops; the second space serves as an expanded lobby with furnishing for informal gathering or independent work and includes an enclosed conference room; the third, a space designed to house MPRB's program to introduce teens to creativity and technology. Between these spaces are several restrooms, both gender neutral and gender assigned, storage, and a front desk, which will be staffed during open hours.



BATES COLLEGE

Lewiston, ME

Halvorson / Tighe & Bond Studio

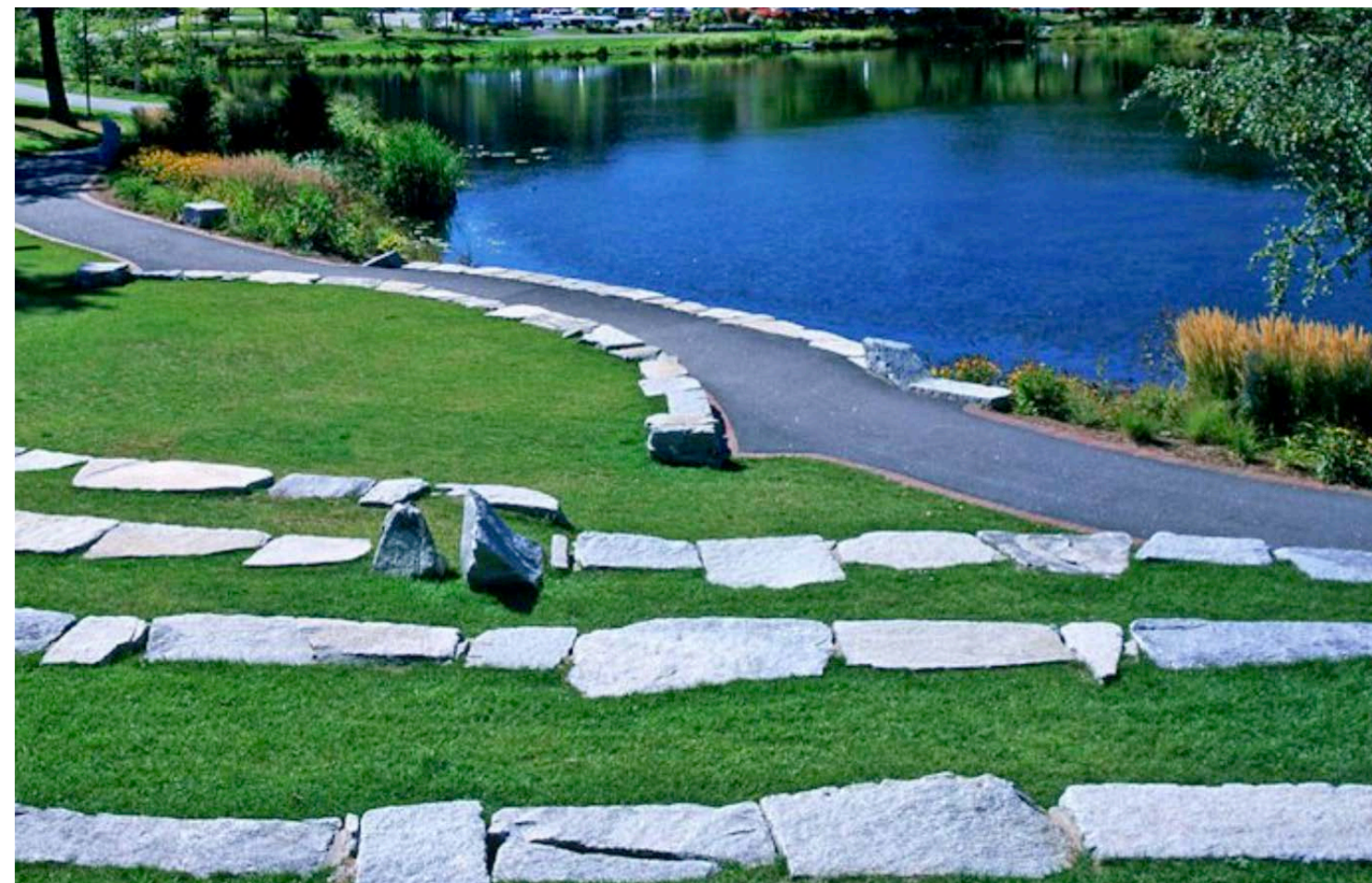
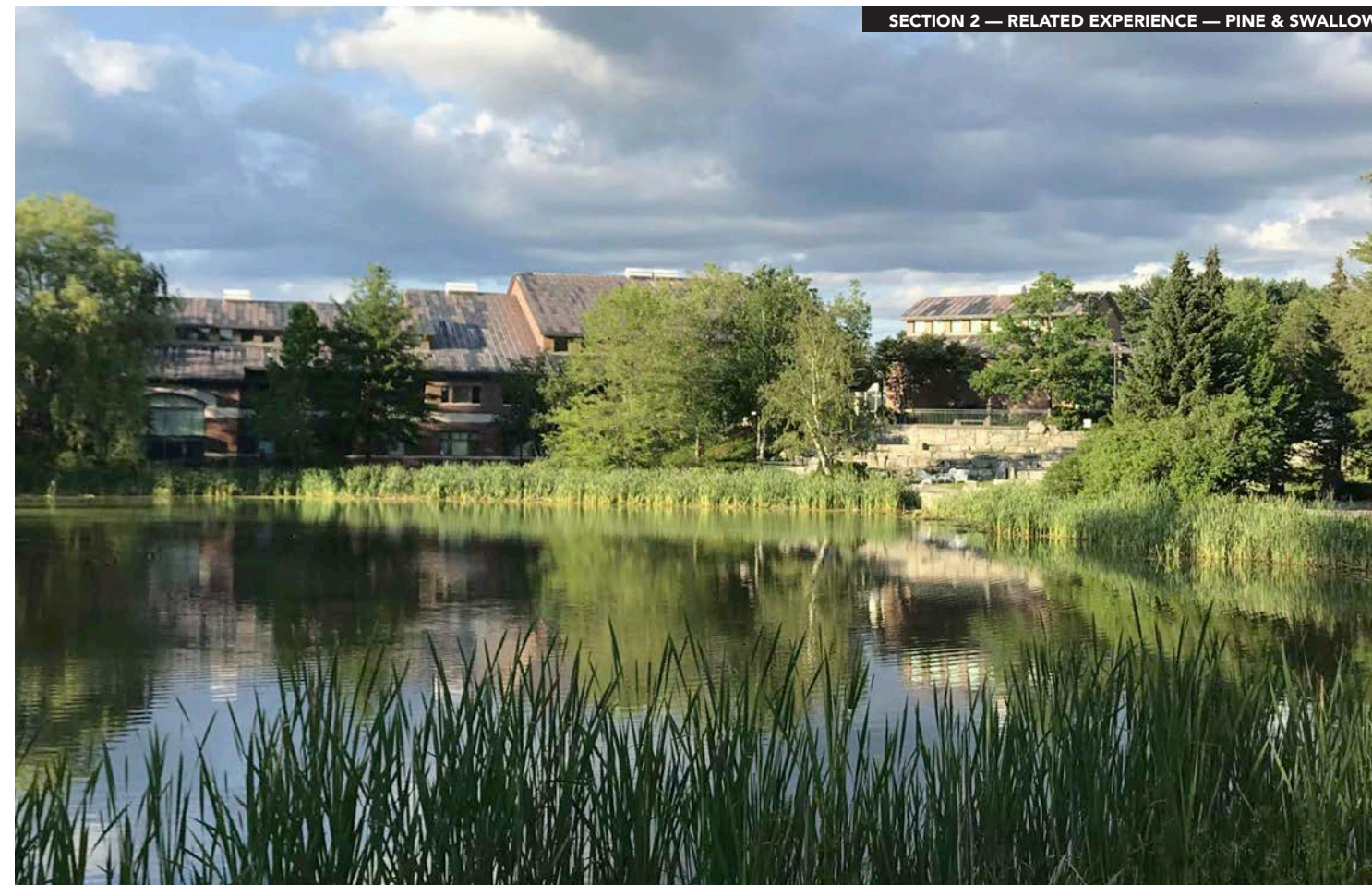
2.13 acres

1998 - 1999

Services Provided: Horticultural Soils
Design and Drainage Consulting

Budget: \$1M

When Bates College decided to expand its campus, a decision was made to use land around the pond behind the original quad. However, for many years both storm water and the campus boiler water had discharged into the pond, resulting in severe eutrophication. Pine & Swallow sampled and evaluated the sediments and then designed a reclamation program to remove nutrient-laden sediments from the pond bottom and a storm water treatment system using soils beneath a new circumferential path to remove nutrients before water entered the pond to help prevent algae blooms. P&S also worked with Halvorson Design Partnership to construct a new amphitheater at the edge of the improved pond as well as the overall landscape for the new campus area. The restored pond is known as Lake Andrews and coupled with the enhanced surroundings, provides recreation and rejuvenation opportunities to the student body year-round.





FRESH POND PARK

Cambridge, MA

Carol R. Johnson Associates (IBI Group)

30 acres

2001 - 2010

Services Provided: Horticultural Soils and Storm Water Treatment Design

Budget: \$4M

2009 BSLA Honor Award for Restoration and Reclamation

The Fresh Pond Reservation, originally designed by the Olmstead Brothers in the 1890s, is a 325-acre preserve surrounding a 165-acre City of Cambridge drinking-water reservoir. The city embarked on an effort to increase the protection of the water supply, as well as to enhance the extensive recreational use that the park supports. This landscape restoration project encompassed 30 acres of the Reservation and achieved restoration of native forest, meadow and edge ecosystems, including the soils beneath them. The restored park area includes a soccer field, community gardens, path and trail systems, a butterfly meadow, new wetlands and wet meadows. Pine & Swallow provided hydrologic design for the wetland storm water treatment system to protect drinking water supplies, created a soils management plan and soil blending strategies for the range of site landscapes and stabilization systems for naturalized paths.



SHELBY FARMS PARK

Memphis, TN

James Corner Field Operations

4,500 acres

2009 - 2011

Services Provided: Horticultural Soils Consulting

Budget: \$70M

NJASLA Honor Award 2019
2019 AIA Regional & Urban Design Award
SITES Certified ("Woodland Discovery Playground" at Shelby Farms Park)

This project is a 4,500 acres reserve of scenic fields, meadows, woodlands, lakes, pathways and trails. The Master Plan for the enhancement of the park was developed around a threefold concept – One Park, one million trees, twelve landscapes. The project's design goals were to boost the park's identity, to revitalize ecological habitats, and to improve circulation and connectivity. This extensive project offered a wide variety of passive and active recreation options as well as farming, educational resources, markets and festivals. Pine & Swallow conducted an assessment of existing site conditions and developed site remediation strategies to solve soil drainage challenges and provide planting media in cost-effective, sustainable ways in scale with this 2 million cubic yard earthmoving project. P&S also developed lake edge and spillway stabilization strategies. For the Woodland Discovery Playground, P&S worked with the contractor on construction strategies for soil restoration and protection of specimen trees within the play areas. P&S also prepared a maintenance plan for horticultural soils and assisted with one of the first submittals under the SITES Sustainable Soils Initiative resulting in SITES Certification for the project.



LAKEFRONT DEVELOPMENT ADVISORY SERVICES

Cleveland, OH
 City of Cleveland Department of Port Control
 August 2011 - April 2013

SB Friedman advised the City of Cleveland Department of Port Control to transform its lakefront into a vibrant, mixed-use destination.

Budget: \$290K

Their plan envisioned a mixed-use redevelopment of the waterfront, including restaurants, retail, office, and entertainment and hotel development along the Lake Erie coastline in Downtown Cleveland. Our team included Berusch Development Partners, a Cleveland-based firm. SB Friedman's work included the following: Testing the market and economic feasibility of the proposed BKL office plan; Analyzing the market potential for an NCH hotel, retail and restaurant arcade adjacent to the existing museums and restaurants along Erie Pier; Developing market-supportable development programs for North Coast Harbor and Burke Development District; Identifying site and management issues that will affect lakefront development potential and advising on development strategy; Identifying critical infrastructure components required to attract private development to the lakefront; and Projecting tax increment financing (TIF) revenue available for infrastructure components based on the NCH and BKL development programs outlined in earlier work.

Results: Our analysis showed that office and retail development on the Cleveland waterfront was market-feasible. We identified critical infrastructure components and projected initial tax increment, which indicated that certain components could be financed with TIF proceeds. The City of Cleveland selected a lakefront developer in 2014, following an RFQ/P process. The developer has since completed a restaurant and apartment building on the site. The City is planning to construct a pedestrian bridge to make the area more accessible.



WATERFRONT SITE DEVELOPMENT ADVISORY SERVICES

Holland, MI
 City of Holland, Michigan
 June 2020 - Ongoing

SB Friedman is advising the City of Holland as it pursues a once-in-a-generation opportunity to redevelop a 17-acre City-owned waterfront site to achieve the goals outlined in the recently complete community-led Waterfront Holland Vision

Work completed to date: \$130K

For decades, Holland's Lake Macatawa waterfront has been an industrial working waterfront. In 2017, the coal-fired James De Young power plant building was decommissioned, which initiated conversations among City leadership and the community about the redevelopment potential of the site. The desire to synthesize these ideas and reimagine the waterfront's potential led the City to undertake the Waterfront Holland Vision, which positioned the site as the key to transforming the City's relationship with its waterfront. SB Friedman worked as part of a team to assist the City with identifying and executing a multi-phase redevelopment strategy for the site. Key steps completed to date include: Reviewing existing site conditions and conducting interviews with the development community and other stakeholders to identify desired and feasible redevelopment outcomes; Devising several possible pathways to implementation for the site for each of the desired redevelopment outcomes; Presenting implementation pathways to City Council and selecting a preferred redevelopment strategy; Developing a development prospectus and two-stage Request for Qualifications/Request for Proposals ("RFQ/P") solicitation document; Conducting initial outreach and marketing to the development community in advance of the release of the solicitation package; Assisting in Q&A, site visits, and developer pre-submittal calls as part of the RFQ stage. Results: The City released the RFQ/P in May 2021 and three developer statements of qualifications were received. SB Friedman reviewed the submittals and determined that all three were qualified to advance to the proposals stage. One developer submitted a proposal in January 2022, and the City has formally entered into a negotiated transaction period with the developer. SB Friedman is currently assisting with evaluating the developer's proposal and anticipated request for public assistance.



FOX POINT COASTAL RESILIENCY - COASTAL ENGINEERING + REVETMENT DESIGN

Fox Point, WI

Village of Fox Point

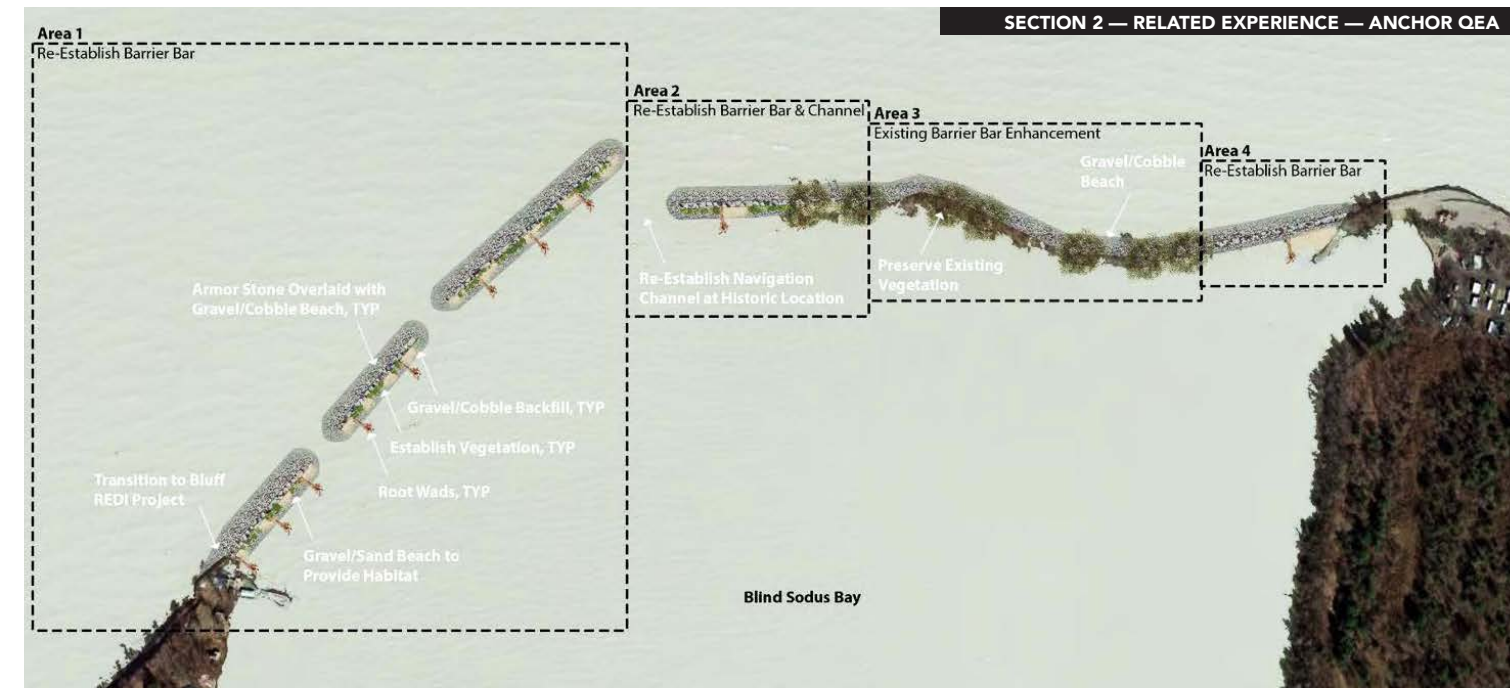
1 mile

April 2021 - Present

\$216,869

Services: Coastal Engineering and Modeling; Geotechnical Engineering; Revetment Design; Coastal Wave Analysis; Stakeholder Engagement

Anchor QEA is working with the Village of Fox Point to design a coastal protection system along North Beach Drive. Recent large storm events have eroded large volumes of sediment, endangering critical infrastructure. This project is currently in the initial design phase for the selected alternative; shoreline improvements will include specification of final armor stone sizes, structure crest elevations, and other essential design details. Throughout the life of the project, Anchor QEA has engaged with stakeholders along the shoreline to provide solutions that maintain the view of the lake from their property and preserves the ways homeowners enjoy recreating near the shoreline of Lake Michigan. Anchor QEA has designed rubble mound and riprap shore protection structures for a variety of clients and will bring that expertise to this project. Our past work experience in coastal environments and our coastal engineering expertise have helped guide the community to an effective, resilient management solution. **Challenges/Sustainable Strategies:** Leveraging our project experience on Lake Michigan to provide a range of alternatives, possible design solutions the team considered included detached breakwaters, groins, shoreline revetments, coastal wetland creation, and other shoreline protection features. Each alternative came with its own set of advantages and disadvantages which were weighed against stakeholder needs and environmental benefits. **Value:** Anchor QEA is using Delft3D to evaluate wave characteristics and impacts to neighboring shorelines. This numerical model uses wave climate information and sediment properties to evaluate coastal morphological changes.



BLIND SODUS BAY RESILIENCY PROJECT

Wayne County, NY

Wayne County Soil and Water Conservation District

0.7 miles of shoreline

2020 - Present

\$208,000

Services: Breakwater/Living Shoreline Design; Coastal Engineering Design; Permitting; Technical Specifications; Cost Estimating; Stakeholder Engagement

The Blind Sodus Bay Resiliency project is part of New York State's Resiliency and Economic Development Initiative (REDI) to increase the resiliency of shoreline communities in the Lake Ontario region. In response to barrier bar systems that sustained significant erosion and breaching due to high lake levels and wave action, Anchor QEA designed offshore coastal structures that incorporate natural and nature-based features (NNBF) to create living shoreline systems that mimic natural features to reduce shoreline erosion, enhance habitat restoration, and protect valuable embayments and property. **Challenges/Sustainable Strategies:** The design considers factors such as navigation, private property, and recreational use of the project area. Coastal modeling analyses were used to evaluate sediment transport characteristics in the project area and verify that the proposed projects do not result in adverse impacts to adjacent shorelines. Anchor QEA performed detailed wind, wave, and hydrodynamic modeling analyses to design offshore breakwater structures and living shorelines to attenuate wave energy. Anchor QEA also supported the design, permitting, and development of construction documents and actively engaged in coordination and communication with regulatory agencies and the general public to ensure the designs addressed project permitting requirements and public comments. **Value:** These projects demonstrate Anchor QEA's experience in evaluating erosive forces and design, permitting, construction documentation, and stakeholder engagement for shoreline protection and coastal resiliency projects in the Great Lakes. Wave and hydrodynamic modeling analyses informed design decisions including armor stone sizing, structural crest elevations, incorporation of NNBF, and construction specifications.



LITTLE BEAVER ISLAND COASTAL + HABITAT IMPROVEMENTS

Grand Island, NY

Buffalo Niagara Waterkeeper

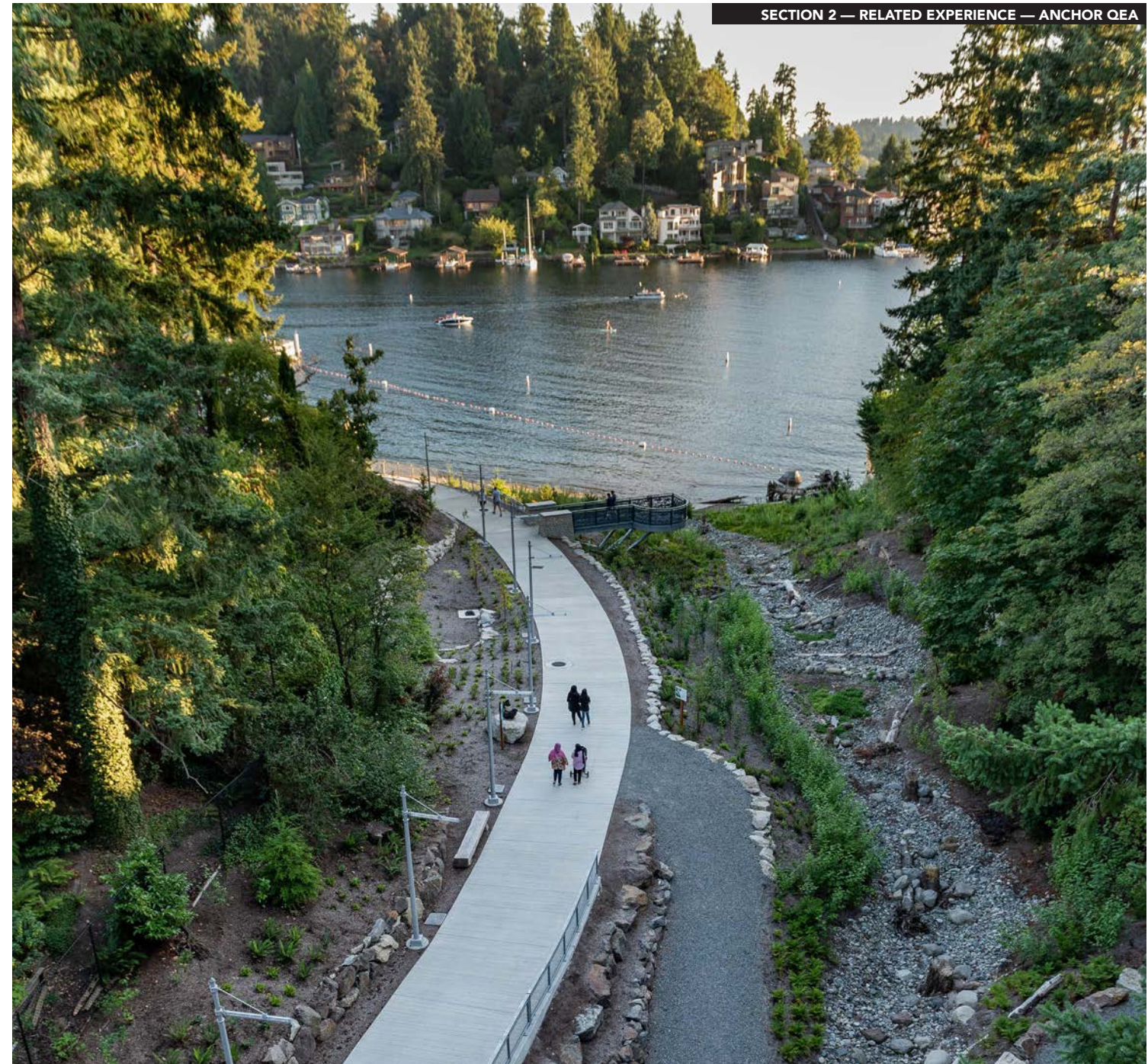
1,000 ft of shoreline

2018 - 2019

\$230,000

Services: Coastal Engineering and Modeling;
Breakwater/Living Shoreline Design;
Geotechnical Engineering; Permitting;
Technical Specifications; Cost Estimates;
Construction Administration

This project covers approximately 1,000 feet of shoreline and nearshore habitat in Beaver Island State Park on Grand Island along a high-energy section of the Niagara River. Erosive forces, including high-velocity currents, wind, and ice scour, prevented the establishment of coastal wetland habitat and led to extreme bank erosion and property loss. Anchor QEA performed detailed wind and wave modeling analyses to design offshore breakwater structures and living shorelines to attenuate wave energy and accelerated the design and permitting schedule to meet Buffalo Niagara Waterkeeper expectations. **Challenges/Sustainable Strategies:** Design objectives included creating and restoring riparian and coastal habitat to improve ecological conditions for resting, feeding, and spawning by numerous fish and wildlife species and to address erosive forces and improve coastal resiliency to enhance shoreline stability and prevent future property loss. To meet these objectives, stabilization and restoration designs included offshore breakwaters to reduce wind-driven wave energy and deflect potential debris. Offshore tern nesting habitat was integrated into breakwater crests. Additional habitat features included turtle nesting beaches and anchored rootwad logs and tree limbs. Protected nearshore habitats were planted with emergent and submerged aquatic vegetation. Upland habitat and riparian enhancements were designed with pedestrian access and viewing opportunities in mind. **Value:** This project demonstrates Anchor QEA's ability to develop and support the design, permitting, and construction phases of shoreline restoration, coastal resiliency, and habitat improvement in a riverine environment within the Great Lakes region. Wave modeling analyses informed design decisions including armor stone sizing, structural crest elevations, incorporation of NNBF, and construction specifications.



MEYDENBAUER BAY PARK PHASE 1

Bellevue, WA

City of Bellevue, Parks and Community Service
Department

March 2014 - March 2019

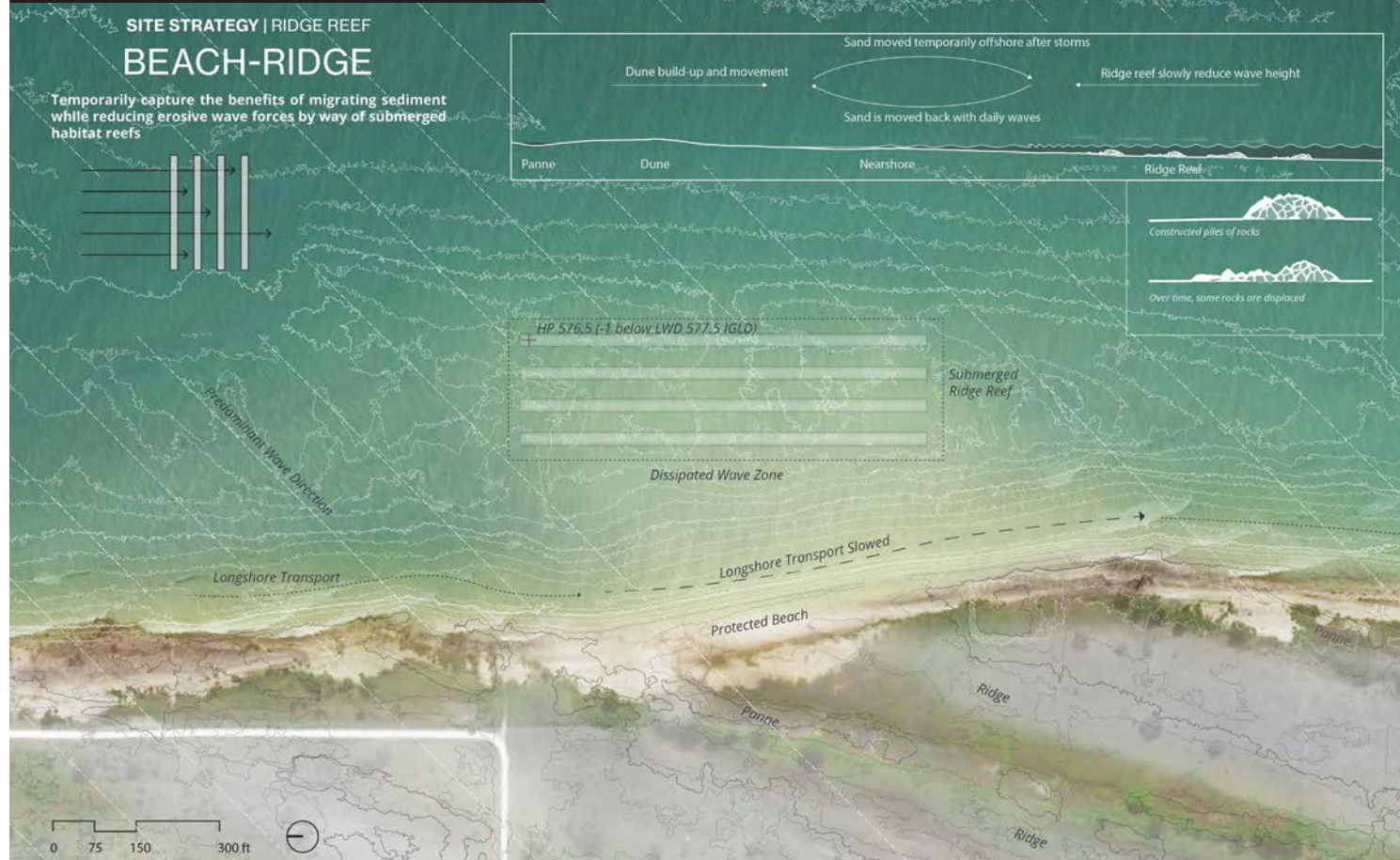
\$1.7M Design; \$14M Construction

Services: Habitat Restoration and Mitigation;
Landscape Architecture; Planning and
Permitting; Stormwater Management; Water
Resources

Anchor QEA managed the first phase in the City of Bellevue's long-term vision to reconnect Bellevue's downtown to Lake Washington. The project transformed the site from private residential and marina uses to a public park with water-focused recreational use and access, upland recreation facilities, parking and vehicle access, pedestrian paths, habitat restoration, complex utilities, and green stormwater infrastructure.

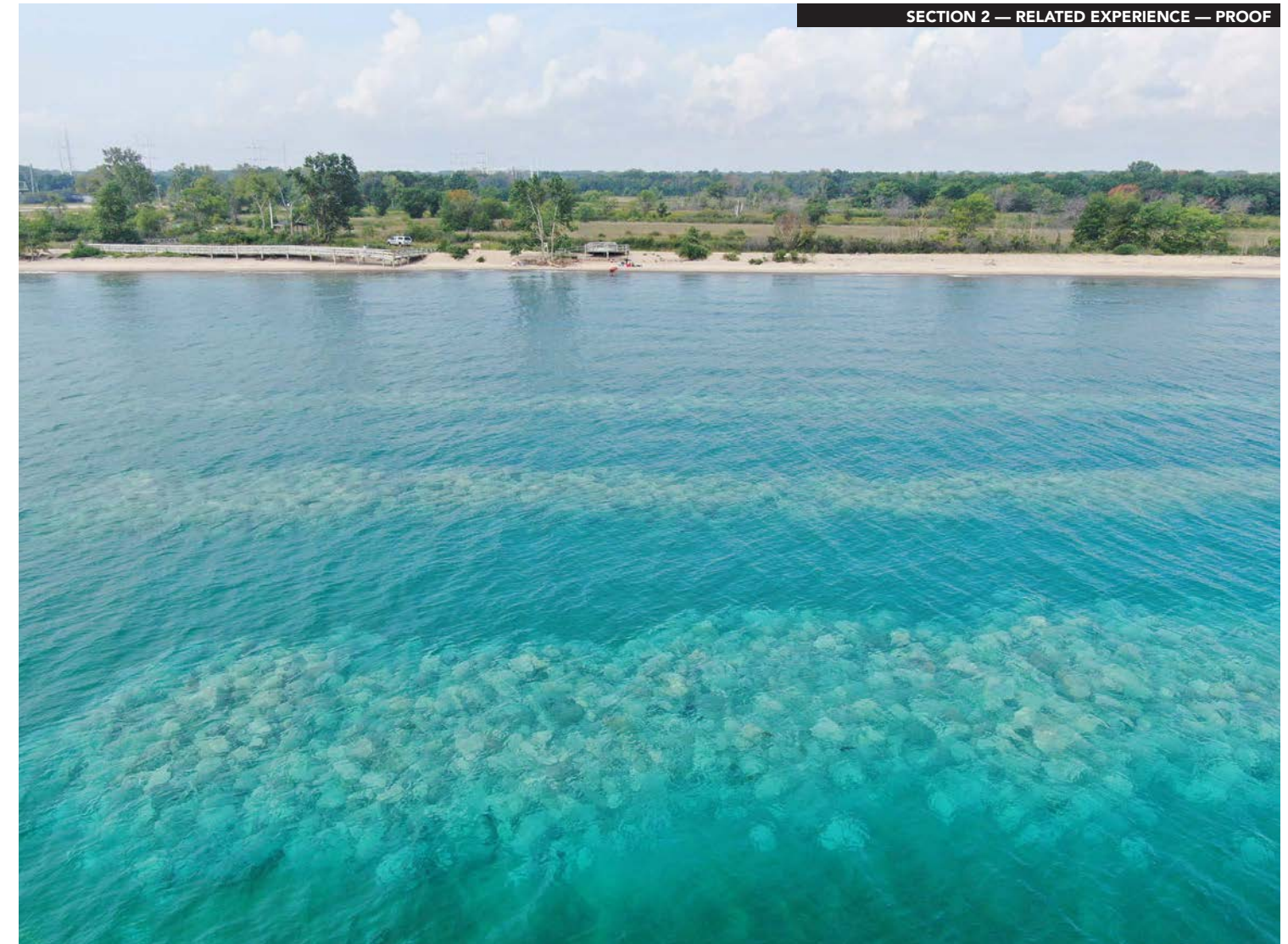
Anchor QEA led this complex project from design development through construction administration. We also led stakeholder and public involvement, permit approvals, and habitat restoration and on-site mitigation design.

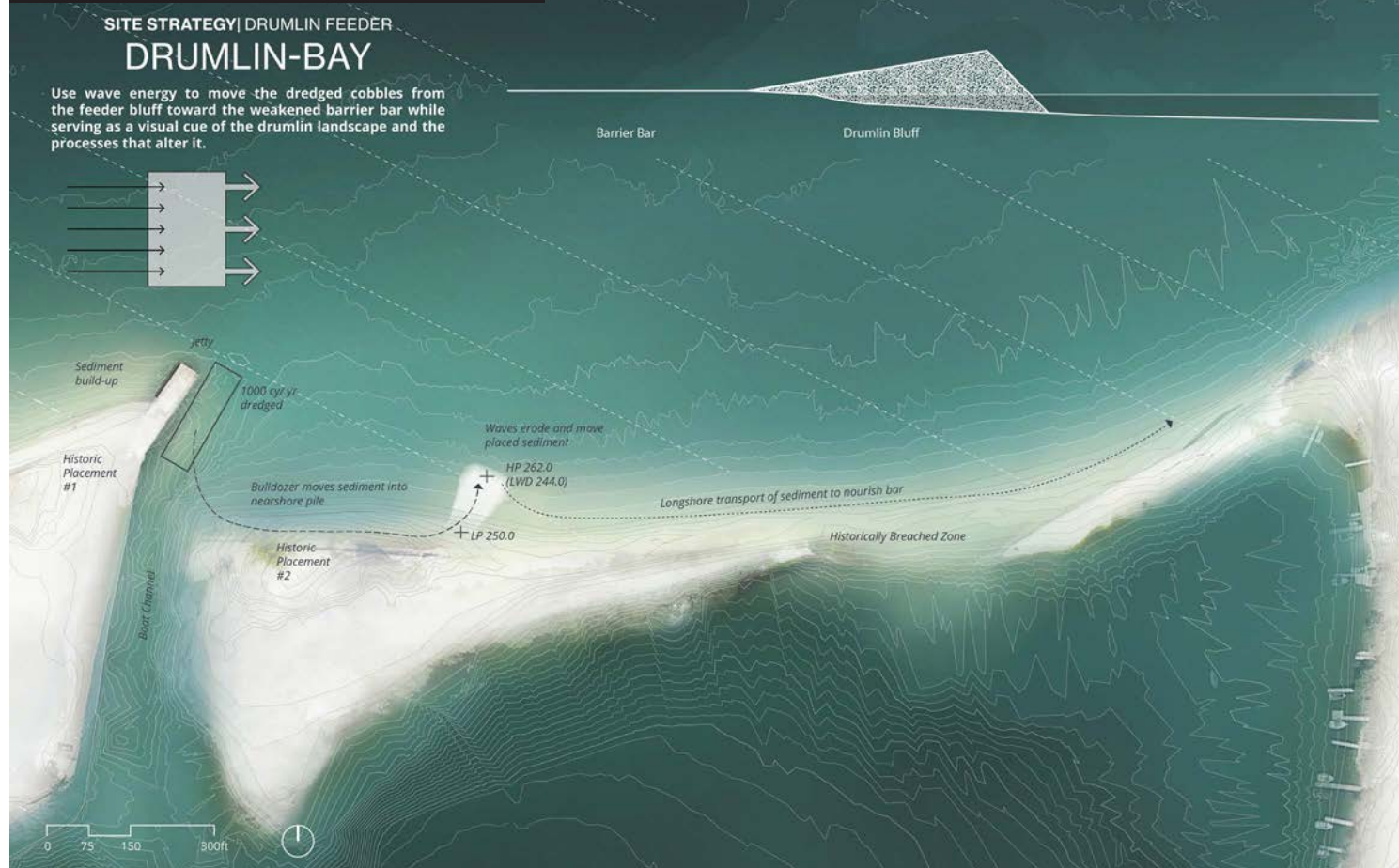
Project construction was completed in 2019, and the project won a Merit Award from the Washington Chapter of the American Society of Landscape Architects the same year. It then received a Local Outstanding Civil Engineering Achievement Award in 2020 from the Seattle Section of the American Society of Civil Engineers.



IBSP RUBBLE RIDGE REEF
 Zion, IL
 Illinois Department of Natural Resources
 2018-2020 Design
 2021 Construction
 2020 ASLA National Honor Award in
 Analysis and Planning

This project served as an innovative pilot, funded by Great Lakes Restoration Initiative and co-developed with the Illinois Department of Natural Resources Coastal Program. Designed to remain underwater during most times, the project protects coastal habitat without affecting the cultural value (views) of the coastal landscape or negatively affecting coastal processes, including longshore sediment transport. It takes inspiration from the ridge and swale topography of the adjacent beach ridge plain. It is highly attuned to the specific conditions of the Illinois shoreline and is designed to operate with it as it transforms over time. The project is intended to serve as an example of an alternative to hard, expensive, and visually obstructive offshore breakwaters. The project is a clear example of a productive working experience with IDNR and GLRI around the development of an innovative coastal infrastructure project. It also demonstrates a way of working that highly values contextual (ecological, cultural and economic) conditions and positions these values as drivers for the project. It necessitated a high degree of engagement with federal and state agencies and local stakeholders in the area, including the Sand Management Working Group. The experiences from that outreach will be invaluable as we work closely with those communities and organizations on this project.





PORT BAY COBBLE BELL

Port Bay, NY

Wayne County and town of Port Bay

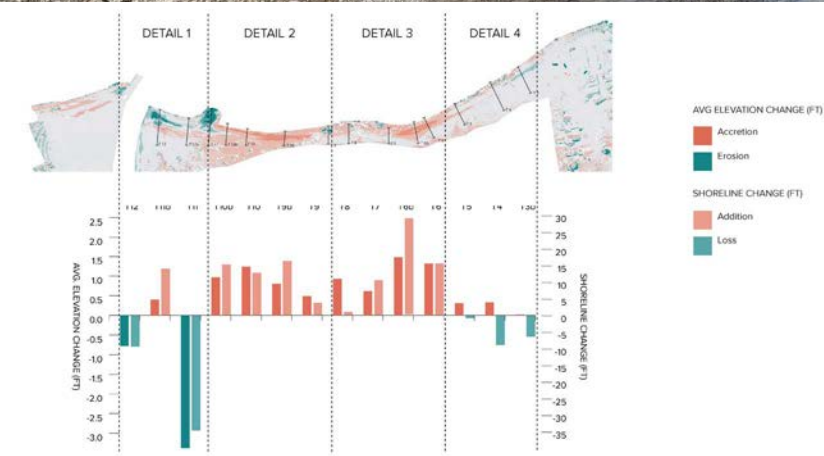
2017-2020 Design

2020 - Present Construction and Monitoring

2020 ASLA National Honor Award in Analysis and Planning

The product of a rich and ongoing collaboration between agencies and the local community, the Cobble Bell projects represents a unique process of integrated landscape design, monitoring, and adaptation. As the primary feature of the annual dredge material management plan, the Cobble Bell is a temporary and re-created form that extends into the waves and wind of Lake Ontario. Designed to erode over time, the cobbles of the Bell nourish adjacent protective barrier beaches without additional transport costs to the community. Located on a public shoreline, the Bell provides unique a unique lake experience while also demonstrating coastal processes at a tangible scale.

Working closely with the Wayne County Soil and Water district and the Port Bay Improvement Association, the Dredge Material Management Plan and Cobble Bell provide an example of how adaptive coastal management is possible within smaller Great Lakes Communities. The monitoring of the project over time allows for the informed placement of new sediment from dredging operations each year, creating an adaptive feedback loop of coastal management.





CAMPUS MASTER PLAN 2015

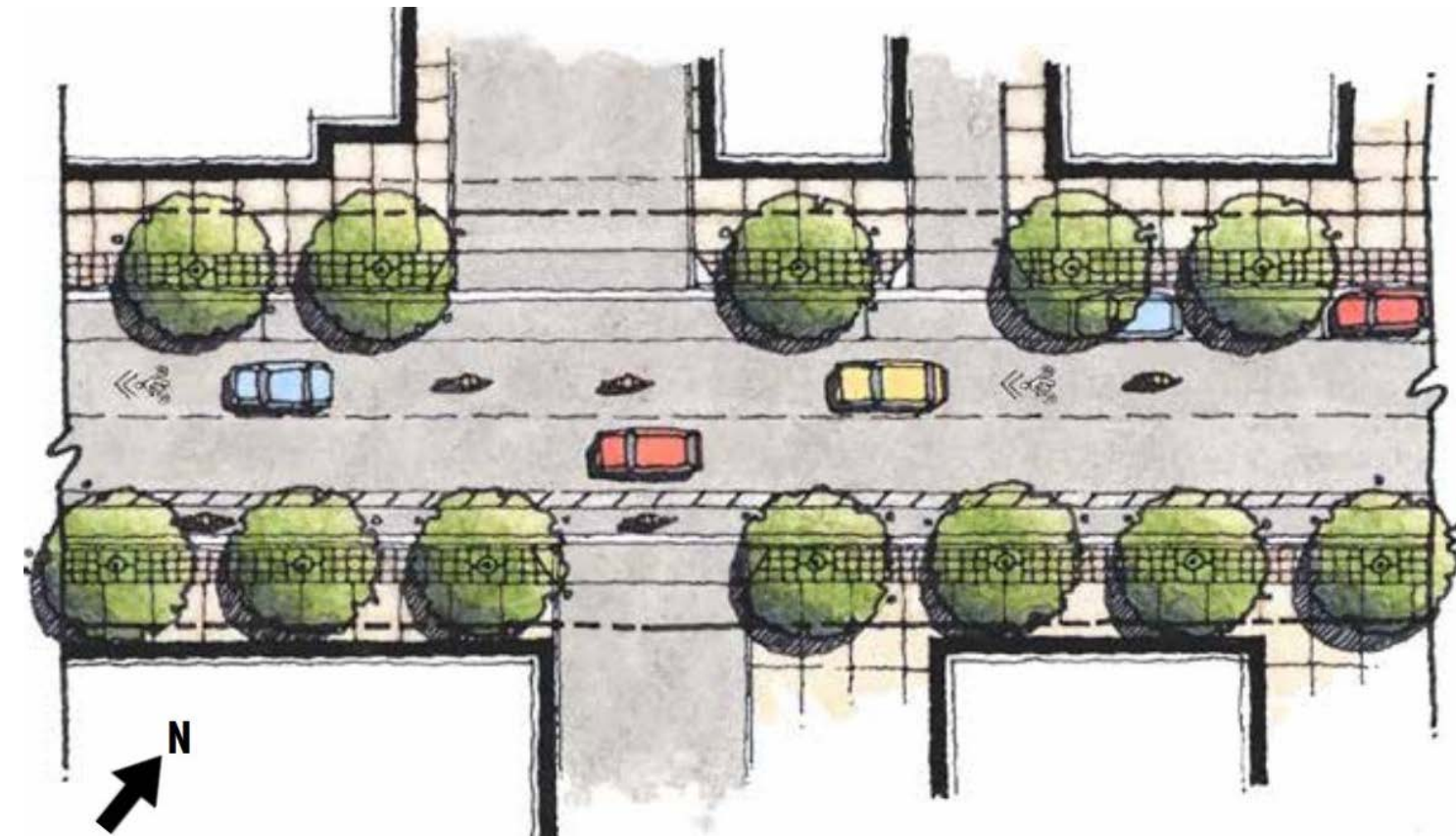
Madison, WI

University of Wisconsin-Madison

2018

Role: Transportation Consultant

Kimley-Horn was a part of the team that updated the University of Wisconsin-Madison Master Plan, including the University of Wisconsin Hospital complex. The plan defines the campus landscape, open spaces, and transportation facilities through 2025. Kimley-Horn led the development of the comprehensive long-range transportation plan, evaluating existing campus transportation facilities, and developing recommendations related to traffic and circulation, parking, pedestrian and bicycle routes, and transit connections to campus.



SOUTH CAPITOL TRANSIT-ORIENTED DEVELOPMENT DISTRICT PLANNING STUDY

Madison, WI

City of Madison

2014

Role: Lead Consultant

Kimley-Horn developed a transit-oriented development district plan for the southern part of downtown Madison, an area of approximately 30 city blocks. The southern lakefront (Lake Monona) is not well connected to Capitol Square and the downtown area. The district plan evaluated transportation facilities through the southern part of the isthmus and their interconnectivity to downtown destinations. We analyzed all modal connections (pedestrian, bicycle, auto, and transit), and developed conceptual plans for street, trail, bridge, and intersection improvements in the district. Kimley-Horn evaluated potential intermodal terminal sites and developed a conceptual plan for the recommended site. Potential redevelopment sites were evaluated to maximize their transit orientation. The transportation and redevelopment analyses were coordinated with a multistep public outreach and engagement process. Kimley-Horn led a multifaceted public involvement program that included a project management team, an ad-hoc committee, and three public open houses. One of the public open houses was held as a design workshop to allow citizens to help the design team develop potential recommendations for improving pedestrian and bicycle connectivity through the planning district. Kimley-Horn met the budget and other project performance goals. The project was extended to accommodate the planning study committee's decision-making process.



Rendering courtesy of Smith Gilbane

MADISON YARDS

Madison, WI

SG Hill Farms, LLC / Madison Yards, LLC

2021

Role: Transportation Consultant

Kimley-Horn contributed to the master planning efforts for the redevelopment of the 21-acre former Wisconsin State Department of Transportation building site in Madison. As part of the project, Kimley-Horn evaluated the potential transportation impacts of various land use and density scenarios proposed for the site. Off-site improvements were determined to mitigate the site's impact to the surrounding area, which included roadway widening to accommodate a new half-signalized intersection along University Avenue. Kimley-Horn prepared final design plans for the widening and new half-signal and obtained approval for construction from the City of Madison and Dane County in March of 2017. We also completed a traffic impact study for the proposed site, transportation demand management plans, and participated in public meetings as part of the development approval process for the City of Madison.



Linear park concept rendering courtesy of Manning Architects

CONVENTION CENTER BOULEVARD

New Orleans, LA

New Orleans Ernest N. Morial Convention Center

2017

Role: Independent Review

Kimley-Horn was contracted by the New Orleans Convention Center to complete a peer review of a high-profile plan to redevelop Convention Center Boulevard into a linear park. The project reconfigured the road from a major four-lane divided thoroughfare into a two-lane street that prioritized pedestrian movements and included significant traffic reconfiguration, landscaping, design, and programming upgrades that aim to activate the space as a public amenity. On an aggressive three-day schedule, four members of Kimley-Horn's planning and engineering staff conducted field observations, technical review, and met with representatives of eight separate groups, including neighborhood and regional stakeholders, key local decision makers, and members of the project team. Ultimately, Kimley-Horn provided a full complement of recommendations to aid the project's implementation, including an ongoing engagement process, a broader vision for multimodal transportation in the area, and further analysis on the traffic reconfiguration elements.



TOM LEE PARK

Memphis, TN

Memphis River Parks Partnership (MRPP)

Services Provided: Structural Engineering

Construction Cost: \$50M

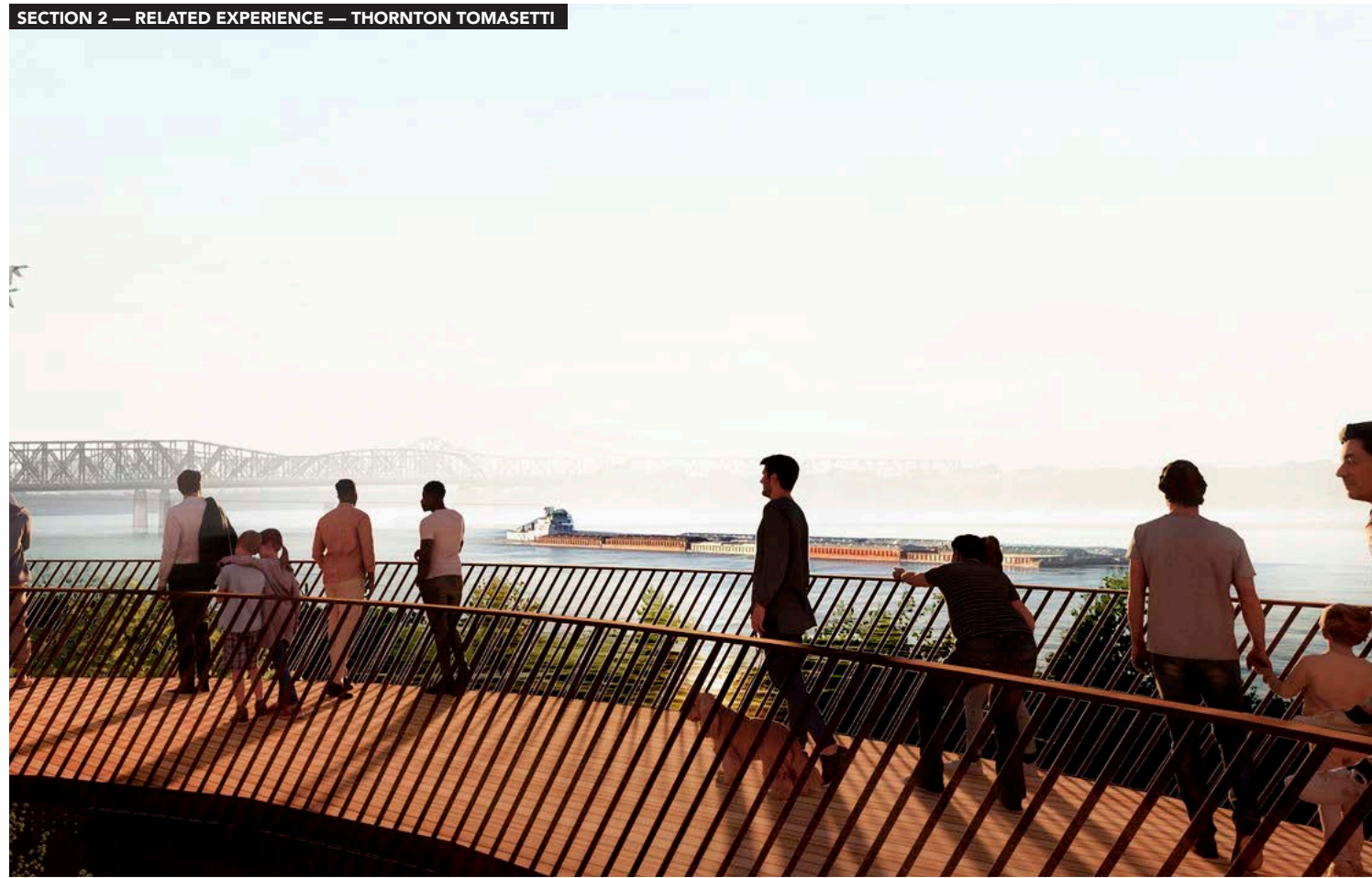
Honorable Mention, The Architect's Newspaper Best of Design Awards, Unbuilt – Landscape Category, 2019

Located in the growing downtown area of Memphis, the redesigned Tom Lee Park will anchor the Mississippi waterfront district and revitalize the area for locals and visitors.

Thornton Tomasetti is providing structural design services to Studio Gang Architects for three architecturally significant components of the signature Tom Lee Park including a canopy over the activity courts, elevated trail extending out to the Mississippi River, and timber-pole pavilions for event and back of house space.

Tom Lee Park will feature landscape and ecological diversity; a network of paths and trails that connect the part to the city; a series of signature architectural pavilions; and a collection of hardscape surfaces and gathering plazas. Sustainable best practices and energy efficiency are also high priorities for the project. Structural layout, foundation systems, and surcharge onto the Mississippi dike wall were coordinated with and approved by the Army Corps of Engineers. All project design decisions were balanced against construction budget - approximately \$50 million - and schedule, as construction has required the temporary relocation of the wildly popular Memphis in May festival.







ST. PETE PIER

St. Petersburg, FL

City of St. Petersburg

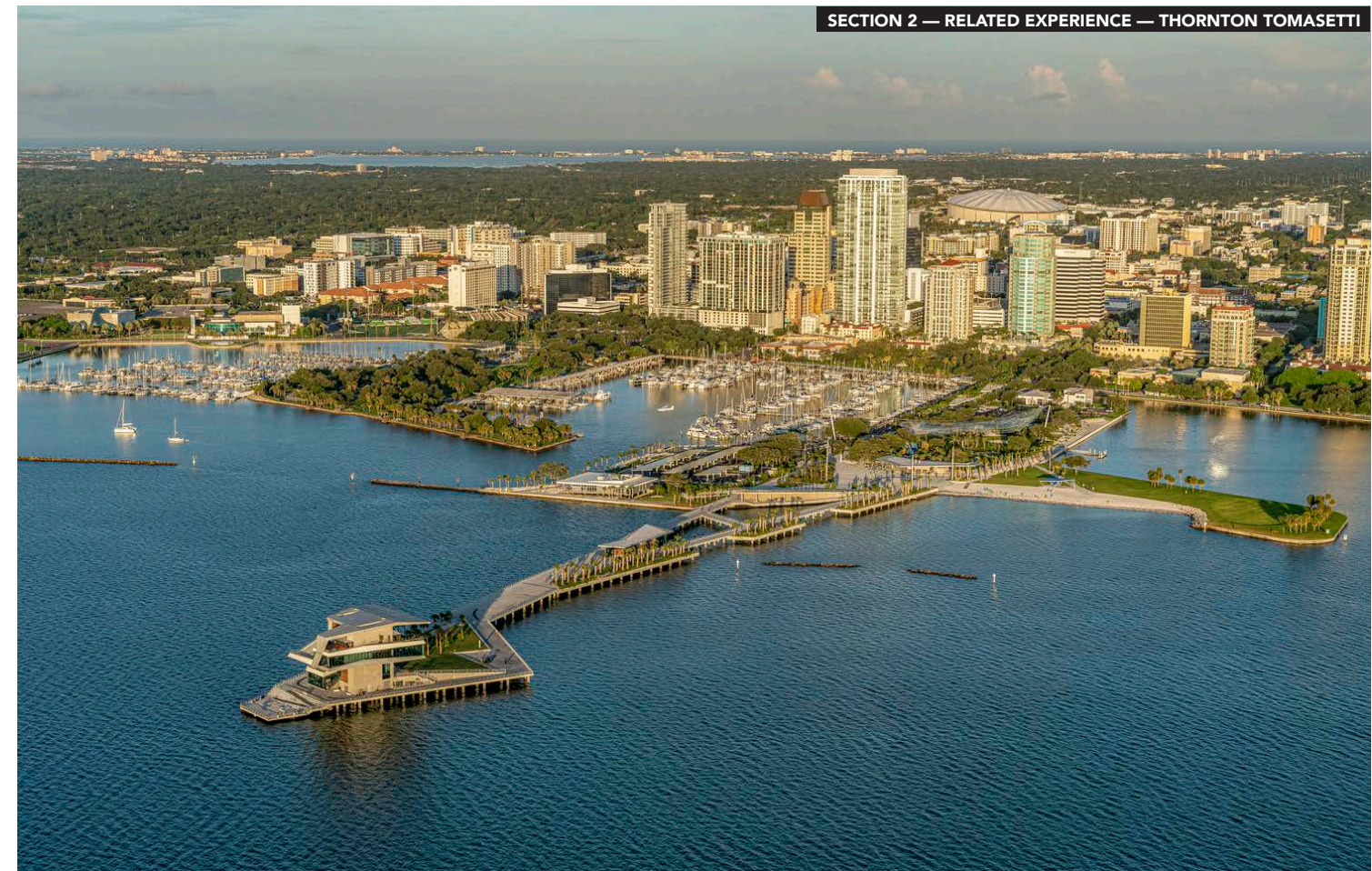
26,065 sq ft | 26 acres (park)

2020

Services Provided: Structural and
Geostructural Engineering

Construction Cost: \$93M

The pier has been a landmark for the city of St. Petersburg since the late 1800's. Over the ensuing years the historic pier became too costly for the city to upkeep necessitating a new pier. After a decade of design development, the aging icon was replaced with a revitalized pier and park that extends the urban and recreational aspects of St. Petersburg into Tampa Bay, reconnecting the pier to the daily life of the city and its transportation systems. The new St. Pete Pier is a 26-acre waterfront district featuring a series of "destinations," each one leading into the next, including a playground, environmental education center, restaurants and numerous art installations. The park offers bike paths, fishing piers, and jogging trails. The pier is built on piles and designed to resist a foot of sea level rise as well as for 100-year storm surge scenarios. All buildings and structures sitting on the pier are designed to withstand a Category 4 hurricane and winds up to 155 mph. As Design Engineer, Thornton Tomasetti led the structural design of the education center, pavilion, tilted lawn and signature pier head building from concept design through design development. The engineers continued to have oversight to ensure the final design met the design intent. Thornton Tomasetti also provided geostructural design services for the pier's new bridge deck and its supporting piles and seawall. Our work helped to revitalize a century-old beloved local and tourist destination. Our geostructural experts analyzed and developed the design, and in the process enabled the team to reduce the number of pile supports, decreasing material and installation costs.





EXPERIENCE WITH & UNDERSTANDING OF TECHNICAL ISSUES

PORT plans and designs equitable public landscapes and civic environments that respect and accentuate the local context and culture to grow and evolve with their communities. The PORT Team designs environments with people and for people. Together with our team, our clients, and community partners, we create memorable and compelling public spaces that are flexible and diverse — reinforcing values, supporting innovation, and providing inspiration.

PORT has led large park and plaza projects through all phases of design and construction that directly engage water including 8th Street Gateway Park in Bentonville, AR; Aspire Park in Clinton, TN; and Augusta Quarry Lake in Knoxville, TN. We have aligned our extensive experience with a multi-disciplinary team of experts to achieve the goals of the Lake Monona Waterfront Design Challenge.

Project Master Planning

PORT has extensive experience developing award-winning, compelling and technically rigorous master plans in numerous contexts. Our work on the Urban Wilderness Gateway, which won awards from chapters of the American Institute of Architects and the American Society of Landscape Architects, connects downtown Knoxville Tennessee — through a developing area of South Knoxville — to the Urban Wilderness. Along the gateway, we developed nodes of activity that are both areas for development as well as entrances onto the greenway itself. The Urban Wilderness Gateway Master Plan also created a public case for investing in the James White Parkway as a pedestrian and bicycle-focused greenway by attracting the support of the Knoxville Mayor, the Tennessee Department of Transportation, and the many other organizations and partners necessary to deliver the project over the next ten years. This approach — combining technical rigor with compelling public renderings and communications — is exactly the approach we would take to the Lake Monona Waterfront Design Challenge.

Our partner Kimley-Horn contributed to the development of the Lake Monona Waterfront Preliminary Report for the City of Madison, Parks Division. The report was developed to provide background information to inform future phases of the Lake Monona lakeshore corridor and to serve as the foundation for future planning work. The initial study focused on Law Park and was expanded to include John Nolen Drive causeway and a northern portion of Olin Park, ultimately including over 1.7 miles of lake shoreline and 17 acres of parkland. Law Park, the causeway, and Olin Park areas create a combined lakeshore corridor connecting Madison's downtown, east, west, and south side communities. In addition to contributing to transportation elements of the plan for the corridor, Kimley-Horn led coordination efforts with stakeholders such as engineering staff from the City of Madison, WISDOT, and WSOR.

Multi-modal Transportation Engineering & Pedestrian/Bicycle Bridge Structures

PORT has extensive experience adapting public landscapes in growing communities into dynamic and beloved parks for those communities. 8th Street Gateway Park in Bentonville, Arkansas emphasizes community connections to adjacent bicycle and pedestrian infrastructure, and creates memorable experiences by combining circulation and paths with ecological restoration and natural experiences.

We have partnered with Snow Kreilich Architects, who has successfully collaborated with large interdisciplinary teams delivering dozens of projects for Metro Transit around the twin cities, ranging from designing the transit stops for our Light Rail system to multi-modal transit centers, including a large multi-modal transit stop at the Mall of America. Snow Kreilich understands the nuanced coordination between the often conflicting requirements of pedestrians, POV's and transit vehicles.

Our partner Kimley-Horn has assisted numerous local and state agencies in developing transportation plans and programs for both short-term and long-range improvements. These and other assignments in transportation planning and network analysis, economics, urban and regional planning, and engineering

design have positioned Kimley-Horn as a national leader in the transportation field. With over 70 years of experience, Thornton Tomasetti understands that pedestrian and bicycle bridge structures create connections between home, work, and play. Thornton Tomasetti supports the design of these links that bind communities together. By pairing the practical — use, accessibility, site conditions and constraints, environmental impacts, security requirements and more — with signature design, Thornton Tomasetti ensures a final design can reach its fullest potential of striking aesthetics, sustainability, and long-term resilience.

Storm Water Management & Lake Water Quality/Limnology

PORT understands that hydrological design solutions need to consider regulation and resilience. One of the challenges with this site is dealing with the nutrient loading from the watershed to the lake. Solutions to the problem involve disciplines that our partner Pine & Swallow has long experience and expertise in, such as soil chemistry, soil physics, hydrogeology, stormwater management, environmental impacts, and horticultural maintenance practices. Whether restoring existing soils or replacement with new, the planting soils are designed to have high levels of soil biologic activity, which reduces the need for applications of nutrients. These soils also have high infiltration rates that reduce direct runoff and allow removal of excess nutrients by the soils.

Sustainable Design, Shoreline Projection, and Aquatic Habitat Restoration

PORT believes that sustainability is more than just a consideration, it is a mandate. We are committed to advancing projects rooted in climate resilience, public health enhancement, and environmental stewardship. This approach shapes everything we do — from individual material and species selections to our alignment with partners and collaborators.

Our partner Anchor QEA has extensive experience evaluating and modeling the nearshore marine environment, developing and implementing shoreline and coastal protection projects, designing and constructing coastal restoration projects, and providing support to waterfront and port development projects. Anchor QEA has a reputation of working successfully with project partners to meet both habitat and client needs and objectives with our designs. Anchor QEA engineers, planners, and scientists provide the full range of expertise to support a comprehensive approach to efficiently improve the resiliency of coastal communities.

Anchor QEA's coastal engineering work often supports the design of shoreline development projects, including habitat restoration and mitigation. Our challenge is to create suitable and sustainable habitat for aquatic organisms and avian species. Some of Anchor QEA's coastal engineering expertise includes the following: Coastal process evaluation and modeling; Coastal engineering and planning; Beach nourishment; Coastal landscape architecture; Surface water quality assessment; Nearshore habitat delineation and restoration; Natural resource management; Contaminated sediment management; Waterfront transportation; Water resources engineering; Sediment transport and stability evaluations; Wetlands and ecosystem engineering; Shoreline and coastal structures evaluation, design, and monitoring; Hydrodynamic modeling and circulation; Analysis of hydrostatic and hydrodynamic (wave) loads on structures; Wind-wave hindcasting and wave transformation; Vessel-generated wave prediction; Geotechnical engineering; Bid documents, permitting, and public outreach; and Construction management.

Anchor QEA staff have extensive experience working along the Great Lakes coasts and have worked closely with both state and federal agencies to ensure the successful delivery of local projects for more than 15 years. We have worked on some of the largest living shoreline projects in the United States over the past several years, including the largest living shoreline projects in New Jersey, Mississippi, and Texas. All of these projects contain offshore breakwaters to protect the shorelines from erosion and damage during extreme events. Anchor QEA is also currently involved in five projects that are part of Lake Ontario Resiliency and Economic Development Initiative (REDI), which is a \$300 million dollar program consisting of over 60 projects aiming to rebuild and enhance the resiliency along the Lake Ontario and the St. Lawrence River shorelines. Components of the program include protecting critical infrastructure and enhancing natural features that support coastal resilience. Anchor QEA is providing design support services for project components

including dredging and beneficial use of dredged material; living and resilient shoreline design, including incorporating breakwaters as well as nature and nature-based features; and coastal infrastructure improvements to marina, dock, and riverwalk facilities.

Our partner Proof develops new ways to intervene in large living and constructed systems so that practices of sediment management, forestry, landscape maintenance, wetland restoration, and construction processes become the generative means for design goals. Proof provides design research into cultural, natural, and technical processes of ecosystem management and construction pertaining to coastal, urban, riparian, and forestry environments. Proof has extensive expertise in the creation of natural and nature-based features, materials research, and public space design to improve human and ecosystem health over time. Proof's work is rooted in a historical and ecological approach that synthesizes technological, cultural, ecological, infrastructural, and architectural issues and can help guide capital projects, sediment management projects for public or ecological benefit, forest plantation and city tree canopy management plans, artist and community engagement, and maintenance protocols and manuals. Proof's projects often emphasize how ongoing maintenance practices can be leveraged in large constructed and natural systems to minimize capital costs and improve performance over time.

Structural Decking, Waterfront Structures & Amenities

A waterfront is a culture space for people to gather. These community spaces offer limitless possibilities – for both function and design. They can enlighten, uplift, inspire or educate. And they can host any number of events, programs or exhibits. Our partner Thornton Tomasetti's innovative, collaborative design approach fully embraces these possibilities and more, creating iconic, flexible structural centerpieces that enrich and transform their communities. You can count on our team to keep your performance and aesthetic goals in sight. With a portfolio of thousands of completed projects, Thornton Tomasetti understands cultural and community buildings inside and out and their portfolio runs the gamut from parks and gardens, landscaped terraces, monuments and public sculptures; visitor centers, community centers and more.

Park structures, ranging from restrooms to picnic shelters are no different. Our partner Snow Kreilich Architects has designed numerous park and park-like facilities that not only work harmoniously within the landscapes but account for user wear, operational needs and maintenance. From concept to detail Snow Kreilich considers the nuance details that result in 50+ year facilities. Snow Kreilich Architects has been working in the public sector for the past two decades and their clients demand high performance, durable and well detailed facilities.

ADA Design

The PORT Team puts particular emphasis on ADA accessibility and compliance with ADA Standards. We believe the rewards of accessibility come in many forms and we are committed to partnering with the City of Madison to establish an accessible design that provides the public with access to open space, community facilities and independent mobility regardless of age or physical challenges. The PORT Team's approach also emphasizes inclusive design for all users and age groups, encouraging mental, physical, social and emotional health.

Economic Opportunity & Philanthropic Design

Significant investment in public realm improvements can have a catalytic impact, oftentimes stimulating subsequent development activity by the private sector in the surrounding area. This inflow of investment can accelerate neighborhood change in the form of development, business attraction, job creation, or increased tourism. These potential impacts should be considered during a master planning process prior to advancing public investments. Assessing the interrelated impacts fueled by private investment helps ensure development changes over time best align with priorities of existing residents and businesses, such as equitable and inclusive development. Our partner SB Friedman has extensive experience in working on development projects from the vision to the deal allows them to guide "fact-based visioning" processes that lead to successful development outcomes.

Unique, Design-Led Community Engagement

A signature of the PORT Team's approach to urban design and planning projects is a creative and committed community engagement process. As a design-focused practice, we place a great deal of emphasis on a well-elaborated public engagement process. We design events that are central to this process to act as the means of feedback and evaluation; additionally, we take the utmost care in the design of the resulting project itself. Our work enlists social media campaigns, playful public events, temporary physical interventions, and graphic, compelling imagery to inspire, provoke and attract. These activities are oriented towards current users, and more critically, potential audiences. As a result, our work is imaginative, playful, inspiring, engaging, and memorable.

The PORT Team approach is rooted in actively engaging public audiences and stakeholders in events and interventions, rather than the more familiar show-and-tell approach. In our opinion, there are few experiences less engaging than sitting in a dark gathering space, listening to a planner or designer drone on about a potential community amenity in the abstract, relying on vague bullet points and familiar platitudes projected on a wall or screen. We find these meetings as dull as the audience does, and we keep them to an absolute minimum. The PORT Team has extensive experience in facilitating public discussion, thinking and consensus-building around the potential and ambition of a community's civic spaces — be it their regeneration or their creation.



EQUITABLE & INCLUSIVE DESIGN

We have brought together a team of consultants with deep expertise, broad disciplinary points of view, and diverse personal backgrounds who are all committed to the ideals outlined in the RFQ for the Lake Monona Waterfront Design Challenge, as well as to the health and wellbeing of the City of Madison. As a practice, PORT strives to include as many partners led by historically underrepresented communities on our team as possible. Our pursuit of a more equitable built environment depends on partnerships with minority-owned, women-owned, and disadvantaged businesses. Our relationships with MBE, WBE, and DBE consulting firms bring diverse voices to our projects and continues to grow while we pursue building business opportunities.

In order to deliver people-centered design solutions for the Lake Monona Waterfront Design Challenge, rooted in memory and belonging, and to connect people and spaces in order to thrive in place — we are committed to the design team being comprised of a range of voices as broad and diverse as the communities that it seeks to serve.

Snow Kreilich Architects:

Through our experience with equitable and inclusive design we have found it necessary to reach out beyond our known networks. This often requires a collaborative process engaging multiple voices, organizations, neighborhood groups and beyond. For our project at the MN Zoo we partnered with the University of Minnesota Urban Design Institute to create a Co-design team that included a diverse group more representative of the audiences that will visit the zoo. They provided direct design feedback through the process that ranged from varying levels of comfort felt within spaces to culturally inappropriate designs.

Our studio is working on numerous projects for the city of St. Paul and Minneapolis' Park and Recreation on similar projects to yours, all of which required community engagement processes. Our team can both lead and support this important aspect of the project and recognize its importance to overall perception and project success within the community.

As a small studio-based practice of 38 members, Snow Kreilich has been recognized for the diversity and background of its studio members. In 2018, when Snow Kreilich received the AIA Architecture Firm Award, it was noted that over 50% of the staff were women and people of color. Now that number is over 70%. Diversity matters, but it is not enough. This past year, to increase the studio's cultural self-awareness and its capacity to bridge across cultural differences, Snow Kreilich implemented equity training for all staff that included the Intercultural Development Inventory assessment and related workshops last winter, an Intercultural Conflict Styles workshop planned for early this summer, and ongoing conversations to discuss racial justice resources and current events.

To continually advance this work, Snow Kreilich is a corporate member of the International Living Future Institute and has registered for a Just Label – a means to document and publicly demonstrate our commitment to equity. Snow Kreilich expects to achieve Level 4, the highest level possible, in the Gender Diversity, Ethnic Diversity, Pay-scale Equity, and Gender Pay Equity indicators when the submission is finalized this summer. Snow Kreilich Architects is a certified S/WBE, as verified by the Central CERT Certification Program, valid until January 2024. Karen Lu, AIA, NOMA leads Snow Kreilich's Equity Focus Group and actively oversees all of its initiatives.

Pine & Swallow Environmental:

Pine & Swallow Environmental (P&S) does business with a diverse array of Landscape Architectural firms, including MBE, WBE, and DBE firms, as well as municipalities and non-profit organizations. In our choice of projects, we are most drawn to the ones that will benefit the public in the most open and inclusive way.

At P&S we provide equal employment opportunities to everyone regardless of race, ethnicity, religion, gender, citizenship status, age, veteran status, or disability. We have zero tolerance for any type of discrimination or harassment against our employees by their peers, supervisors, customers, or vendors. This assurance is also reflected in our policies regarding: recruiting, advertising, hiring,

promotion, payment, benefits, termination and any relevant privileges, terms and conditions of employment.

SB Friedman:

SB Friedman is a mission-driven firm that believes in inclusive development that supports social equity, economic mobility and sustainability. Our rigorous, objective analysis helps empower our clients to make informed decisions and achieve ambitious goals. Our commitment to empowering diverse communities includes supporting planning and reinvestment efforts across the nation, such as evaluating opportunities for affordable transit-oriented development (TOD) in Milwaukee, supporting the City of Chicago's Invest South/West initiative with market analysis and strategies for the Austin and East Garfield Park neighborhoods, providing analysis and research to aid in Elevated Chicago's efforts around equitable TOD, conducting market assessments and an affordable housing inventory in support of a proposed bus rapid transit (BRT) line for HART in Tampa, and assisting in all aspects of project evaluation, structuring, closing and reporting on New Markets Tax Credit (NMTC) transactions in disinvested neighborhoods nationally. In our project work, we regularly meet or exceed the minority/women business enterprise (M/WBE) subcontracting goals of the governmental entity/agency with whom we are contracted.

Anchor QEA:

Anchor QEA is committed to providing a voice to under-represented groups and BIPOC members of our communities. We recognize that discrimination is an ongoing problem, and we pledge to do everything in our power to promote racial equity and social justice in our community. We are an equal-opportunity employer, and we strive to include underserved groups in the public outreach components of our projects.

Anchor QEA addresses social equity in internal- and external-facing programs. We launched our Diversity, Equity, and Inclusion Committee (DEIC) in 2018, recognizing that a well functioning DEIC will better support company employees, improve teaming opportunities, and demonstrate the company's value to clients. The DEIC includes employees from multiple staff levels, races, and genders. Under guidance from the Anchor QEA Board of Directors, the DEIC established the following statement of guiding principles for the company:

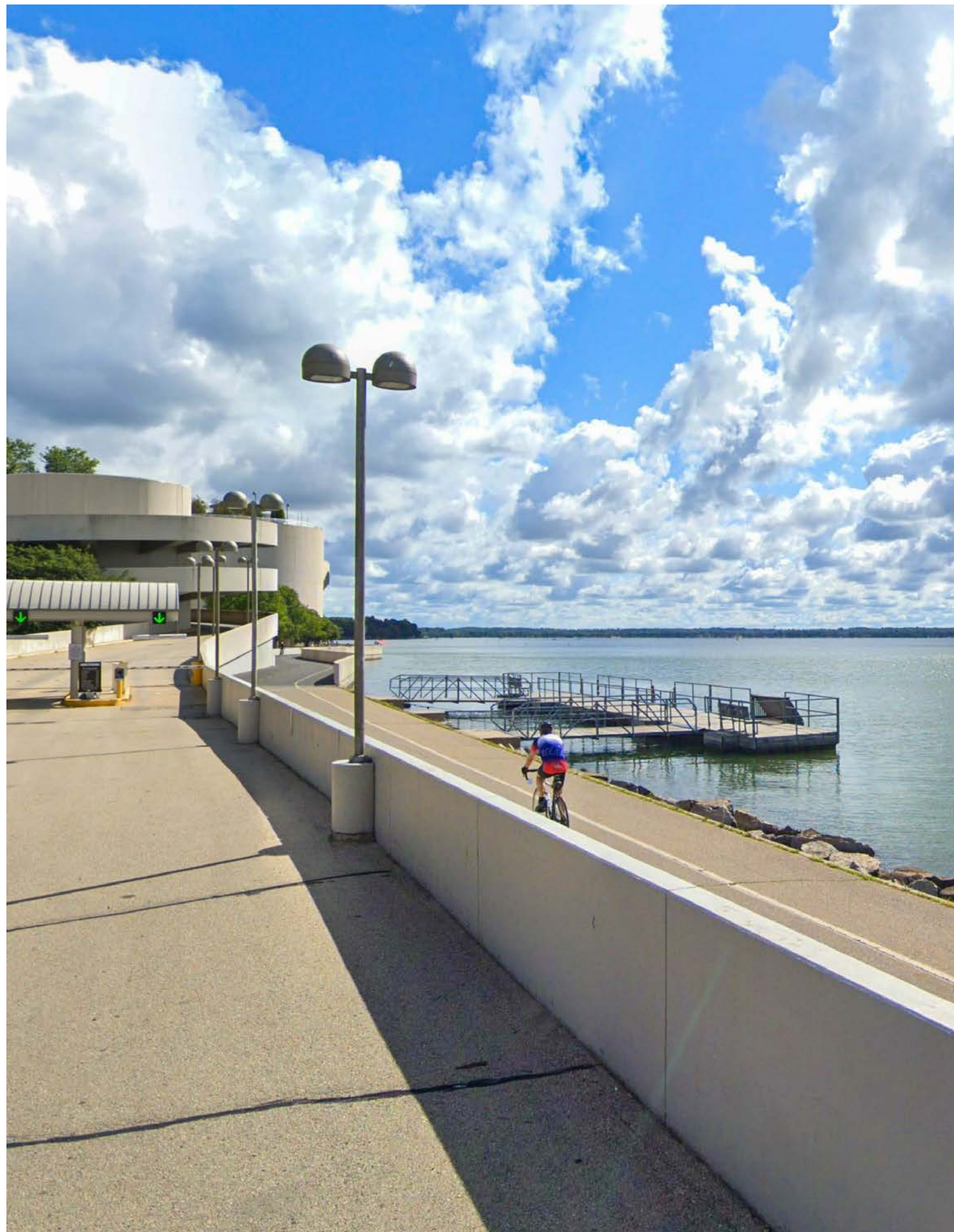
Anchor QEA's vision and success depends on a continuous focus on diversity, equity, and inclusion. We believe: Everyone is entitled to be respected and heard; Diversity makes us stronger; and Everyone has a unique perspective and something valuable to contribute. The DEIC champions topics of equity and inclusion within the company, critically reviews company policies and practices, and explores external teaming opportunities (both professional and philanthropic).

Kimley-Horn:

While Kimley-Horn is not a DBE firm, DBE utilization as part of our contracts is a matter of corporate philosophy at Kimley-Horn. In all cases, we have sought to involve our DBE subconsultants in meaningful roles. When clients have established specific goals for DBE involvement, we have met or exceeded them. In 2021, Kimley-Horn paid \$56.6 million to 608 DBE firms for goods and services.

Thornton Tomasetti:

In addition to attracting and maintaining a diverse workforce, we are proud of our extensive teaming experience with MBE and WBE firms across the country. Thornton Tomasetti has trusted minority- and women- owned business enterprises, as well as small local business enterprises who collaborated with us on the structural design of many projects. We maintain close ties with local firms in metropolitan areas and within the engineering community, with which we feel comfortable teaming in fulfillment of an MWBE requirement. In working with these partners, we mutually arrive at an equitable and efficient distribution of the scope of work to ensure meaningful participation by our partners at levels that are at least the minimum established in the contract. It is our intent that through our participation in this program, we transfer to our MWBE partners the unique experiences, knowledge, and expertise that a larger firm such as ours can bring to bear for their future success on projects moving forward. Strategies include co-locating engineers from the two firms and providing the necessary training on any required software platforms, including advanced Building Information Modeling (BIM) or analysis platforms.



UNDERSTANDING OF PROJECT SCOPE & CHALLENGES

PORT, together with our multi-disciplinary team of experts, understands the following goals for the Lake Monona Waterfront Design Challenge: to create a welcoming destination for all Madison residents and visitors; to connect Downtown Madison to Lake Monona; to enhance community connections, increase physical and visual access to the lake; to improve Lake Monona's water quality and aquatic habitat; to celebrate Frank Lloyd Wright's architectural legacy in Madison; and to preserve Lake Monona's cultural history from the Ho-Chunk nation to the present day.

Increase Connectivity

The unique geographical position of Madison presents a compelling opportunity for a dynamic waterfront amenity that serves local residents and visitors and that celebrates the natural asset of the Lake Monona lakefront as a year-round destination for recreation and public collection. While Madison sits in close proximity to one of the region's largest lakes, Lake Monona, the downtown core remains physically, visually, and acoustically disconnected from the shoreline. In addition to the steep topographical separation, the shoreline and the downtown are bifurcated by infrastructural barriers — a six-lane highway, the WSOR railroad and private development.

While presenting infrastructural challenges, the Lake Monona Waterfront Planning Area also offers circulation advantages and potential through its proximity to existing regional trails and mobility networks such as the Lake Monona Bike Loop, the Monona Bay Loop, the Southwest Commuter Trail, the Capital City Trail, and the Winga Creek path system. The access easement at Wilson Street, the air space over John Nolen Drive, and the vicinity of Law Park also award the opportunity for a pedestrian overpass corridor.

The PORT Team's overall approach to developing mobility elements will go beyond identifying basic transportation infrastructure needs. Our approach focuses on using transportation and circulation as a tool to conserve and connect. The PORT Team's approach will also support broad community goals for the area — increasing health and wellness through safe and comfortable active transportation options; enhancing quality of life through access for all ages and abilities. Our team will establish an accessible design that improves trail and circulation safety and that provides the public with access to open space, community facilities and independent mobility regardless of age or physical challenges.

Improve Water Quality and Aquatic Habitat

The site is also confronted with the challenge of nutrient loading from the watershed to the lake. This runoff directly threatens the health and quality of the lake, disrupting the aquatic habitat and reducing public access. PORT understands that hydrological design solutions need to consider regulation and resilience as well as recovery. We also believe this site presents a unique opportunity to embrace and celebrate the dynamic hydrologic nature of the site into the project design itself. An example of this synthesis can be seen in PORT's 8th Street Gateway Park project. In the east zone of the park, site improvements are focused on water quality improvements and stream enhancement, creating a unique educational setting to learn about the region's watersheds and ecology.

With our extensive experience and expertise in nearshore- and aquatic based engineering, shoreline and cultural landscapes, and soil science and environmental engineering, the PORT Team is committed to a multi-pronged approach to preserving and restoring the Lake Monona waterfront.

Celebrate Architectural Legacy

The PORT Team understands the importance and significance of architecture and planning in the history of Wisconsin and recognizes the architectural legacy of Frank Lloyd Wright in Madison. The PORT Team commits to a planning approach that is mindful of the past, reflective of the present, and focused on the future. PORT's urban planning and design methodology is grounded in research, conscientious of context, and steeped in sustainability — resulting in solutions that celebrate the site's history and that realize the full potential of a site for its long-term future.

Preserve Cultural History

The PORT Team recognizes that the land the planning area encompasses is the ancestral home of the Ho-Chunk Nation, who have called this land Teejop (day-JOPE) since time immemorial. We acknowledge the circumstances that led to the forced removal of the Ho-Chunk people, and honor their history of resistance and resilience. We recognize and respect the inherent sovereignty of the Ho-Chunk Nation

and the other eleven First Nations residing in the boundaries of the state of Wisconsin. This history of colonization informs our work and vision for a collaborative future.

Guiding Principles

The PORT Team commits to the following guiding principles throughout the Lake Monona Waterfront Design Challenge: to create a **Master Plan Vision** that is authentic and that is steeped in the unique local context and culture of Madison; to reinforce values of a compelling and diverse planning process that promotes **racial equity and social justice** and that champions voices that have been historically underrepresented; to establish a **connected community** and promote a **sense of place**; to celebrate Madison's natural assets and to unlock unrealized **access to the lake**; to advance environmental stewardship, **sustainability**, and resiliency; to transcend convention and create civic environments and **public space** for future generations; to foster public interaction and engagement through the incorporation of **public art**; to integrate **education** and collaboration into the planning and design process; to enhance the **economic opportunities** and potential for a world-class waterfront attraction and to **design for philanthropic support and investment**.

Project Area

The PORT Team understands that the Lake Monona Waterfront Design Challenge includes 1.7 miles of lakeshore and 17 acres of parkland and that the Lake Monona Waterfront will be the primary artery connecting the Alliant Energy Center campus, the future Destination District, and the City Madison. Our Team also acknowledges the planned attachment of the Town of Madison into the City of Madison and identifies the necessity of establishing a connected and unified network of multi-modal paths and trails that anticipates future growth.

The PORT Team recognizes that the southern edge of Lake Monona — stretching from Olin Park north to Law Park — along with Law Park, the Monona Terrace Community and Convention Center, the air space over John Nolen Drive, the John Nolen Drive Causeway, Olin Park and the Olin Park Facility, as well as the unrealized Frank Lloyd Wright Boathouse comprises this planning area. As part of the larger Yahara River Watershed, the PORT team anticipates the potential for the Lake Monona Waterfront to set precedence for future projects of aquatic habitat restoration and sustainability in this region.

Lake Monona Waterfront Design Challenge Schedule, Process, and Phases

The PORT Team understands that Phase 1 of the Lake Monona Waterfront Design Challenge will begin with the identification of three Design Challenge Participants that are selected by the Lake Monona Waterfront Ad-hoc Committee. Once selected the PORT Team would participate in a 14-week Master Plan Development process that would incorporate a period of public review and would culminate in the selection of a preferred Master Plan by the Lake Monona Waterfront Ad-hoc Committee.

The PORT Team anticipates that the Phase 1 Master Plan Submission will include site development drawings, as well as accompanying Narrative Report describing the proposed waterfront design's features, development, use, construction, connections, and other important elements. As part of our Master Plan Submission for Phase 1, the PORT Team also anticipates creating a video to support our Master Plan Submission. The PORT Team will also present our Phase 1 Master Plan Submission to the Lake Monona Waterfront Ad-hoc Committee in a virtual meeting.

The PORT Team anticipates that Phase 2 of the challenge would begin with a four-month refinement process of the Preferred Master Plan Option and would collaborate closely with the Lake Monona Waterfront Ad-hoc Committee to implement the Committee's recommendations. The PORT Team will also participate in presentations (virtual or in-person) to the Madison Common Council and the Board of Park Commissioners during the Master Plan Review and Adoption Periods.

The PORT Team will provide schematic design drawings of improvement made to the John Nolen Drive Causeway to inform the John Nolen Drive Reconstruction Project and, if proposed, will also provide schematic design drawings for any improvements proposed to the Capital City Trail in Olin Park.

The Final Master Plan will be comprised of all the materials necessary for the City of Madison Parks Division and the Lake Monona Waterfront Ad-hoc Committee's approval and to guide the development of the Lake Monona Waterfront development in the future.



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