



INTRODUCTION

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THE BOOK



THE BOOK

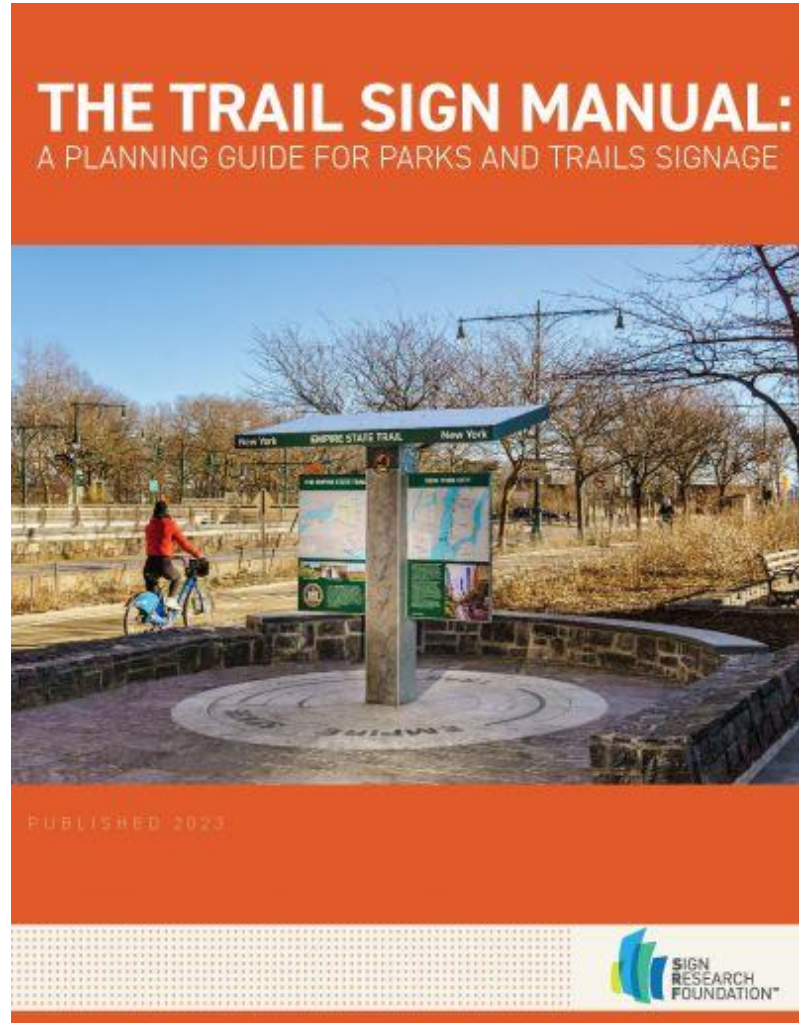
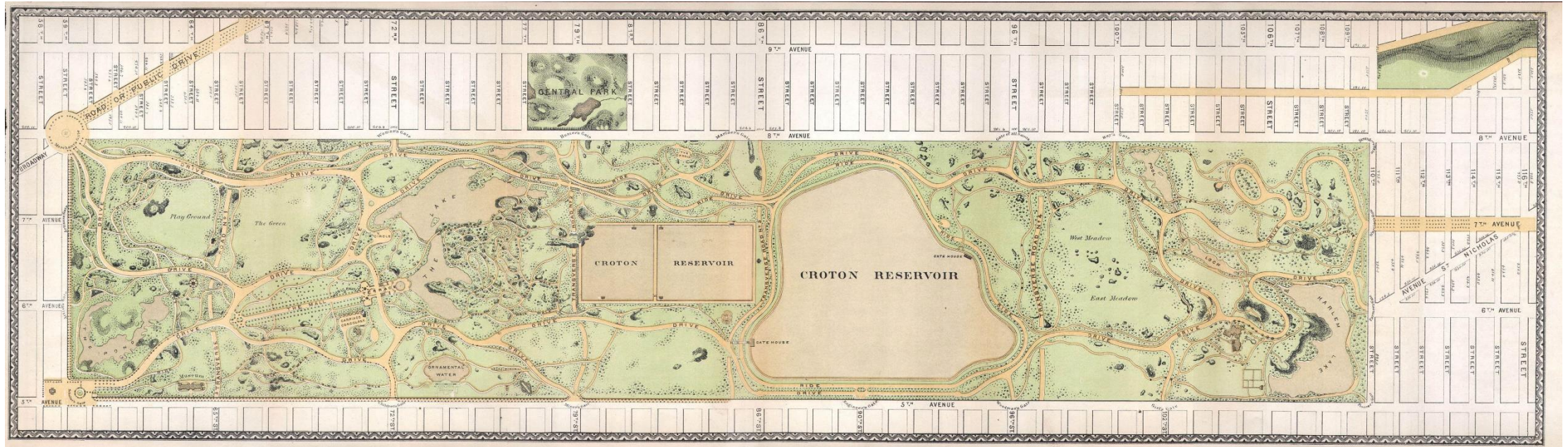


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KEY THEMES



Know Your History

KEY THEMES



Build Community

KEY THEMES



Theatrical Platform

KEY THEMES

BOXERS' TRAIL



Tell A Story

KEY THEMES



Explore Opportunities

TRENDS



Infrastructure

TRENDS



Cultural Storytelling

TRENDS

Off-Street Trail Signs



SIGN TYPE A - Trailhead
 Trailhead signs are located at major trail access points where the trailhead is identified by vehicle parking, restrooms, staging areas or other facilities. The sign type includes a map of the entire trail and the surrounding area as well as provide space for trailhead rules and trail regulations. This sign type is compatible with The International Symbolic Language.

SIGN TYPE B - Trail Access
 Trail Access signs are located at trail access points where the trail typically marks the right of way. The sign type identifies the trail and mode of travel and how to take a trail way, direction or other information.

Wayfinding



Interconnection



TRENDS

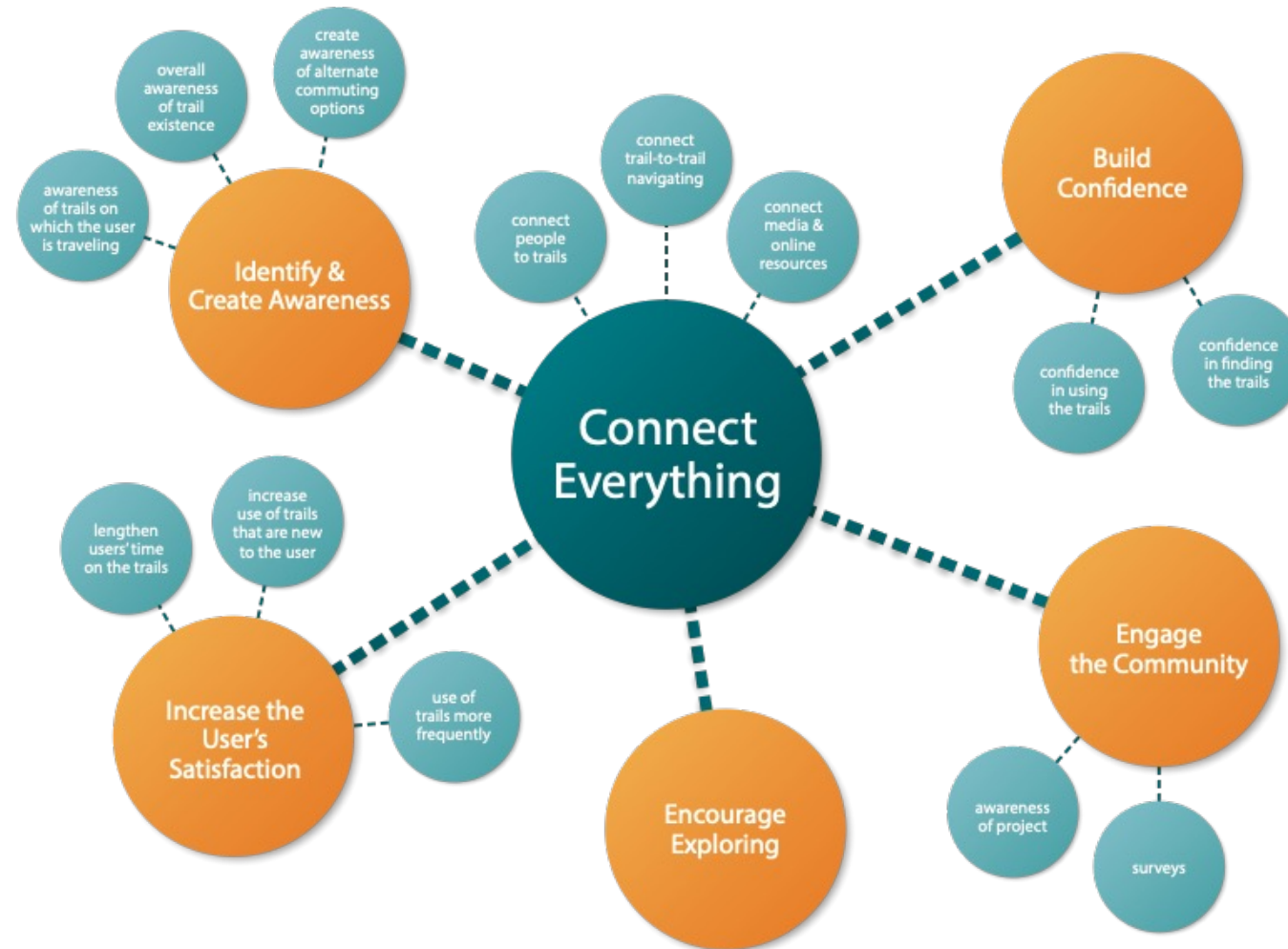
Urban Development Anchor

PLANNING AND DEVELOPMENT

Jeff Frank | Corbin Design
Moira O'Polka | Corbin Design
Shelley Steele | Corbin Design



Identify Project Goals



Project Goals – Lake County, IL

- Develop signage design standard that they can implement internally
- Present information in clear and consistent way
- Rebrand the trail system to be more inclusive of the various users
- Identify connections to additional trails, destinations, and amenities
- Identify ownership and maintenance of specific trail segments



System Rebrand – Lake County, IL

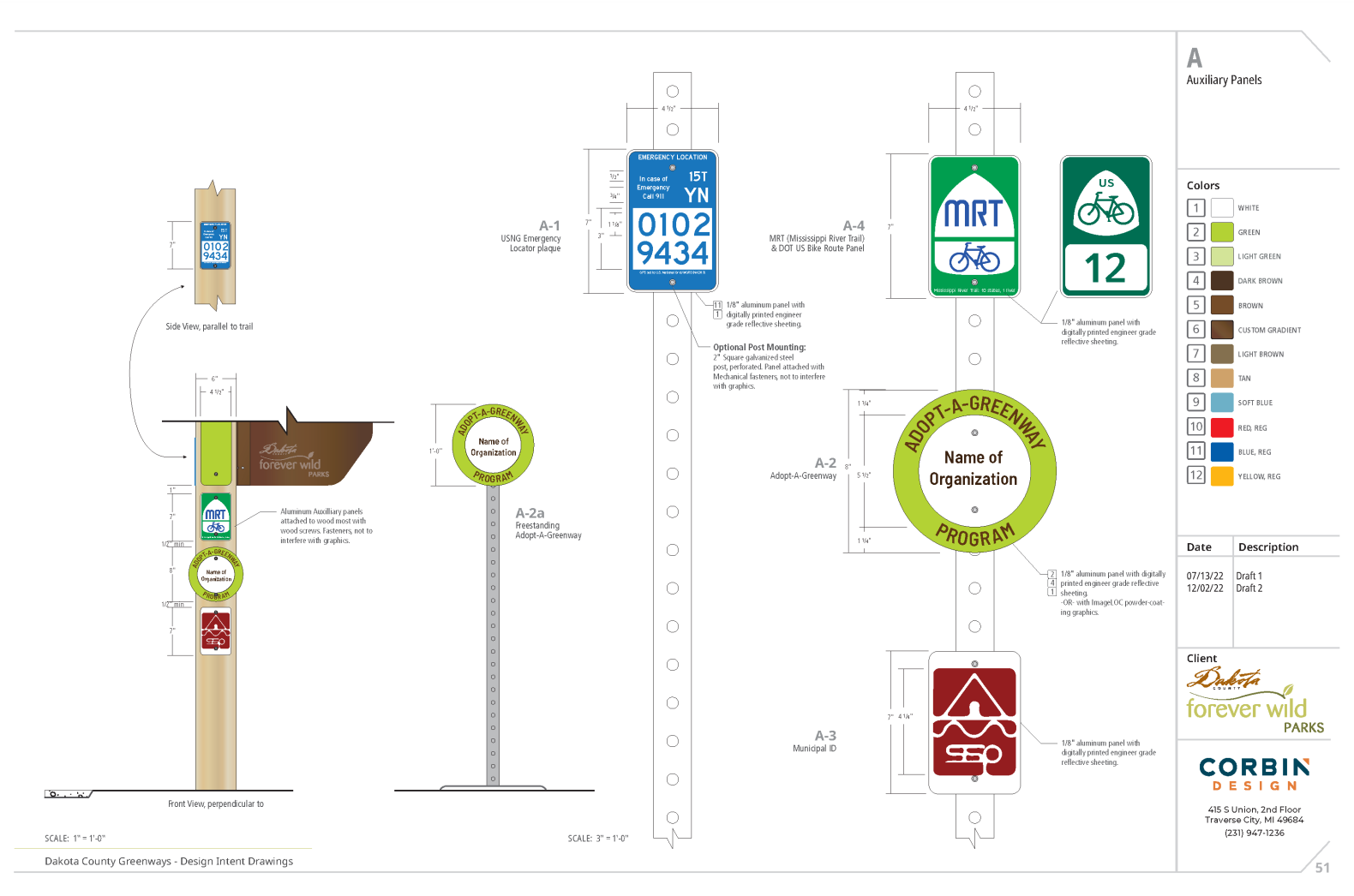


Coordinate with Partners / Jurisdictions

- Local Municipalities
- County Departments
- City Recreation Departments
- Department of Natural Resources
- Department of Transportation
- Forest Preserve
- Local Bike/Race Clubs
- Community



Integrate Co-branding of Existing Systems

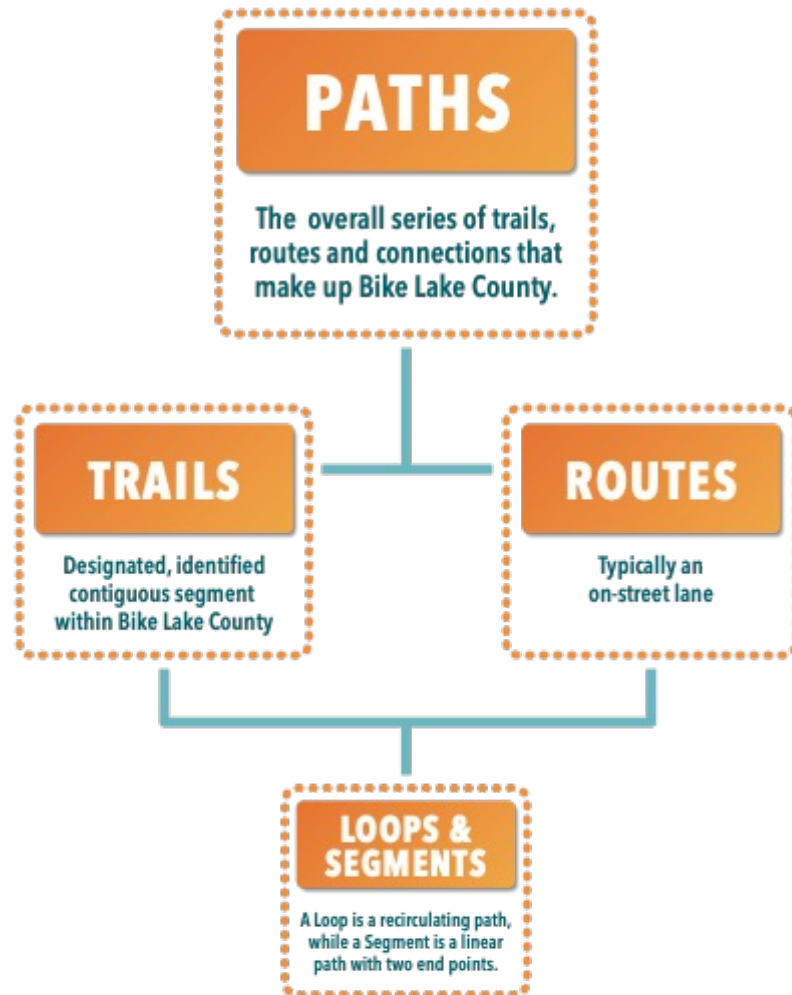


Evaluate Trail Types & Conditions

- On Street
- Paved
- Unpaved
- Loops
- Segments
- Seasonal Use



Establish Terminology / Naming Strategy



Minnesota River Greenway - Trailhead Names			
Trailhead Name	Location	Partner Agency	Overview/Notes
Minnesota Riverfront Trailhead	Riverfront Park	Burnsville – Riverfront Park	Google Minnesota River Greenway Blackdog Trailhead
Nicols Trailhead	Nicols Road	MN DNR – Casperson Landing (north), Fort Snelling State Park USFWS - Minnesota Valley National Wildlife Refuge, Blackdog unit	Other options include: “Blackdog” or “Casperson” DC Map needs to be updated
Lone Oak Trailhead	Lone Oak Road	MN DNR - Fort Snelling State Park	
Big Rivers Trailhead	Confluence of MN and Miss Rivers, CCC overlook	MNDOT, long-term lease	
Lilydale Trailhead	Lilydale Pool and Yacht Club	None	Also referred to as the “Lilydale Yacht Club” trailhead
Mississippi River Greenway - Trailhead Names			
Trailhead Name	Location	Partner Agency	Overview/Notes
Kaposia Landing Trailhead	Kaposia Landing	South St. Paul -Kaposia Landing Park	Not currently a County Trailhead but likely to be in the master plan update. Not supported consistently – restrooms not open in winter
Wakota Bridge Trailhead	Wakota Bridge Verderosa Road	DNR – Public Water Access South St. Paul Community Garden	May be developed into a city waterfront park in the future
Swing Bridge Trailhead	Rock Island Swing Bridge	Inver Grove Heights – Swing Bridge Park	
Pine Bend Bluffs Trailhead	Pine Bend Bluffs SNA	MN DNR – Pine Bend Bluffs SNA	
Spring Lake Park Reserve Fahey Trailhead	Fahey Ave. Archery Lot	None	Alternately could be called the “West” trailhead, Lower Trailhead
Spring Lake Park Reserve Fischer Trailhead	Fischer Ave	None	Alternately could be called the “Bison” trailhead, or “Central” trailhead
Spring Lake Park Reserve Schaar’s Bluff Trailhead	Schaar’s Bluff	None	
Hastings Riverfront Trailhead	Downtown Hastings, Levy Park	City of Hastings – Levy Park, and RiverWalk	
River to River Greenway - Trailhead Names			
Trailhead Name	Location	Partner Agency	Overview/Notes
Lilydale Trailhead	Lilydale Yacht Club	None	
Marthaler Park Trailhead	Marthaler Park	West St. Paul - Marthaler Park	
Thompson County Park Trailhead	None	None	Butler Trailhead (?)

Determine Users to Manage Expectations

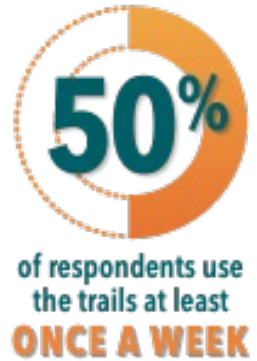
- Various User Types
- ADA Compliancy
- Universal Design



Conduct User Research & Site Work



of survey respondents
use Bike Lake County's
WEBSITE
for information



Establish Symbol Usage Standards

SYMBOLS

Typical Symbol Spacing: x, 30% x, x, 30% x

REGULATORY

- No Motorized Vehicles [X.MV]
- No All-Terrain Vehicles [X.ATV]
- No Horses [X.HORSE]
- No Smoking [X.SMOKER]
- No Alcohol [X.ALC]
- No Weapons [X.WEP]
- Bike Yield to Ped [YIELD PED]
- Be Alert [ALERT]
- Mind your pets [MIND PET]
- Walk Bike [WALK BIKE]
- Electric Bike [E.BIKE]
- Keep Right, Pass Left [KEEP RIGHT]
- Stand Aside [STAND]

AMENITIES Primary

- Vault/Portable Toilet [VT]
- Toilet Flushing [T]
- Drinking Water [DW]
- Parking [P]
- Barrier Free [BF]
- Biking [BIKE]
- Walking [PED]
- Trail Access [TA]
- Swimming [SWIM]
- Shopping [SHOP]
- Food/Restaurant [FOOD]
- Charging Station [CHAR]
- Bike Repair Station [BRR]
- Information [INFO]

ACTIVITIES Secondary

- Library [LIB]
- School [SCH]
- Playground [PLAY]
- Nature Playground [PLAY 2]
- Adaptive Trails ADA [AT]
- Mountain Biking [MTBI]
- Hiking [BIKE]
- Pedestrian Crossing [PEDE]
- Interpretive Exhibit [IE]
- Overlook [OL]
- Shelter [SHEL]
- Picnic Area [PIC]
- Picnic Shelter [PKCS]
- Equipment Rental [RENT]
- Park [PARK]
- Dog Off Leash [DOG]
- Dog Off Leash [DOG 2]
- Skiing / Dorsledging [DS]
- Kick-sledging [KS]
- Sledging [SL]
- Ice Skating [IS]
- Classic Skiing/Skate Skiing [SKI]
- Snowshoeing [SS]
- Baseball [BB]
- Sand Volleyball [SVB]
- Archery [ARCI]
- Roller/In-Line Skating [SKATE]
- Museum [MUSE]
- Portage [POR]
- Paddleboarding [PADDLE]
- Non-Motorized Launch [CAN]
- Canoe/Kayak [CANO]
- Boating [BOAT]
- Motorized Boat Launch [MBL]
- Camper / Boat Trailer Parking [TRLP]
- Fishing Pier [FP]
- Fishing [FISH]
- Ice Fishing [FI]
- Dam [DAM]
- Horsehoes [HS]
- Equestrian [EQ]
- Disk Golf [DISK]
- Historic/Cultural Site [HCS]
- Geocaching [GEO]
- Campground [CG]
- Group Campsite [GG]
- Fire Ring [FR]
- Wood Shed [WOOD]
- Camper Cabin [CABIN]
- Lodge [LODGE]
- Campground Office / Visitor's Center [COVC]
- Amphitheater [AMP]
- Inclement Weather Shelter [IWS]
- Shower [SHOWER]
- Dump Station [DS]
- Vehicle Charging Station [EV]
- Trash [TR]
- Organics- Trash [TRO]
- Recycling [RE]
- Recycle- Trash [RET]
- Comm. Garden [GAR]

Graphic Standards Symbols

Colors

- 1 WHITE
- 2 GREEN
- 3 LIGHT GREEN
- 4 DARK BROWN
- 5 BROWN
- 6 CUSTOM GRADIENT
- 7 LIGHT BROWN
- 8 TAN
- 9 SOFT BLUE
- 10 RED, REG
- 11 BLUE, REG
- 12 YELLOW, REG

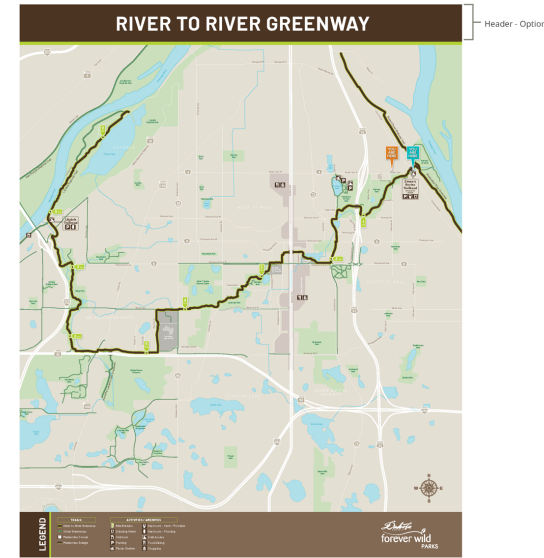
Date	Description
07/13/22	Draft 1
12/02/22	Draft 2



Develop Mapping Standards



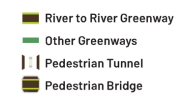
MAPPING



Map Layout Example

Map Assets:

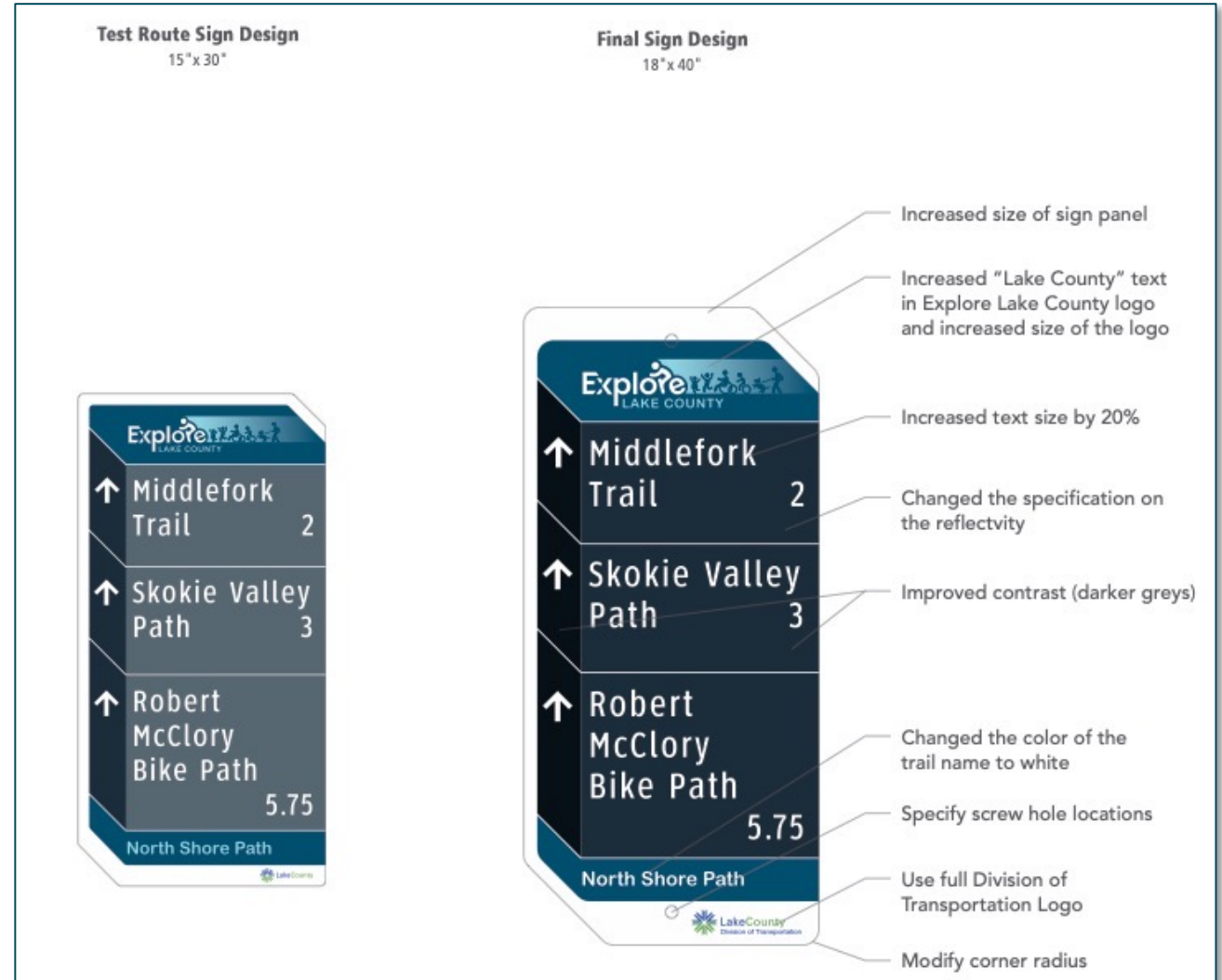
Icon PMS: 7533C CMYK: 50, 65, 78, 58	Light Gray Background PMS: 7539 @60% CMYK: 28, 22, 25, 2
Medium Brown: PMS: 7533C CMYK: 44, 53, 66, 20	Lime Green: PMS: 2297C CMYK: 35, 0, 100, 0
Road Icons: PMS: 7535C CMYK: 27, 25, 38, 0	Orange PMS: 7571C CMYK: 11, 59, 100, 1
Map Background: PMS: 7527C @72% CMYK: 10, 9, 15, 0	Teal: PMS: 326C CMYK: 73, 0, 30, 0
Water Background: PMS: 7457C CMYK: 30, 1, 8, 0	Water Outline & River: PMS: 304C CMYK: 47, 0, 12, 0
Park Background: PMS: 4205C @50% CMYK: 21, 4, 30, 0	Water Text: CMYK: 87, 9, 17, 0 Font: Avenir Book Oblique, 8pt
Park Trail: PMS: 2263C CMYK: 65, 23, 70, 5	Park Text: CMYK: 90, 30, 95, 30 Font: Barlow Thin, 8pt



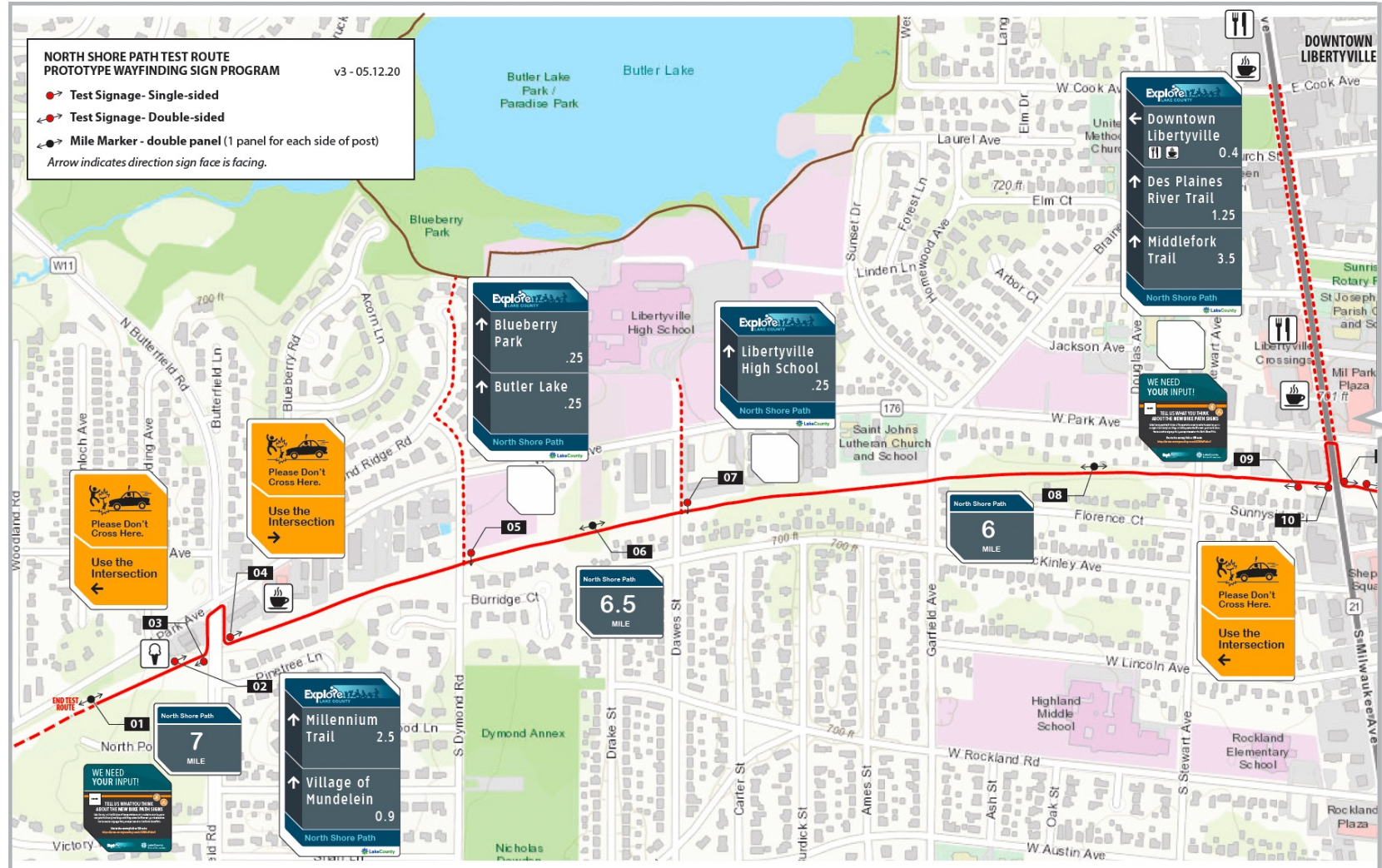
TYPOGRAPHY:
Barlow Semi Condensed - Regular, Medium
Barlow - Thin
Avenir - Medium

Test Route – Validate Design

- Install in select area
- Evaluate the legibility, contrast, size, materials, colors, etc.
- Gather input from users
- Adjust design based on feedback



Test Route – Validate Programming

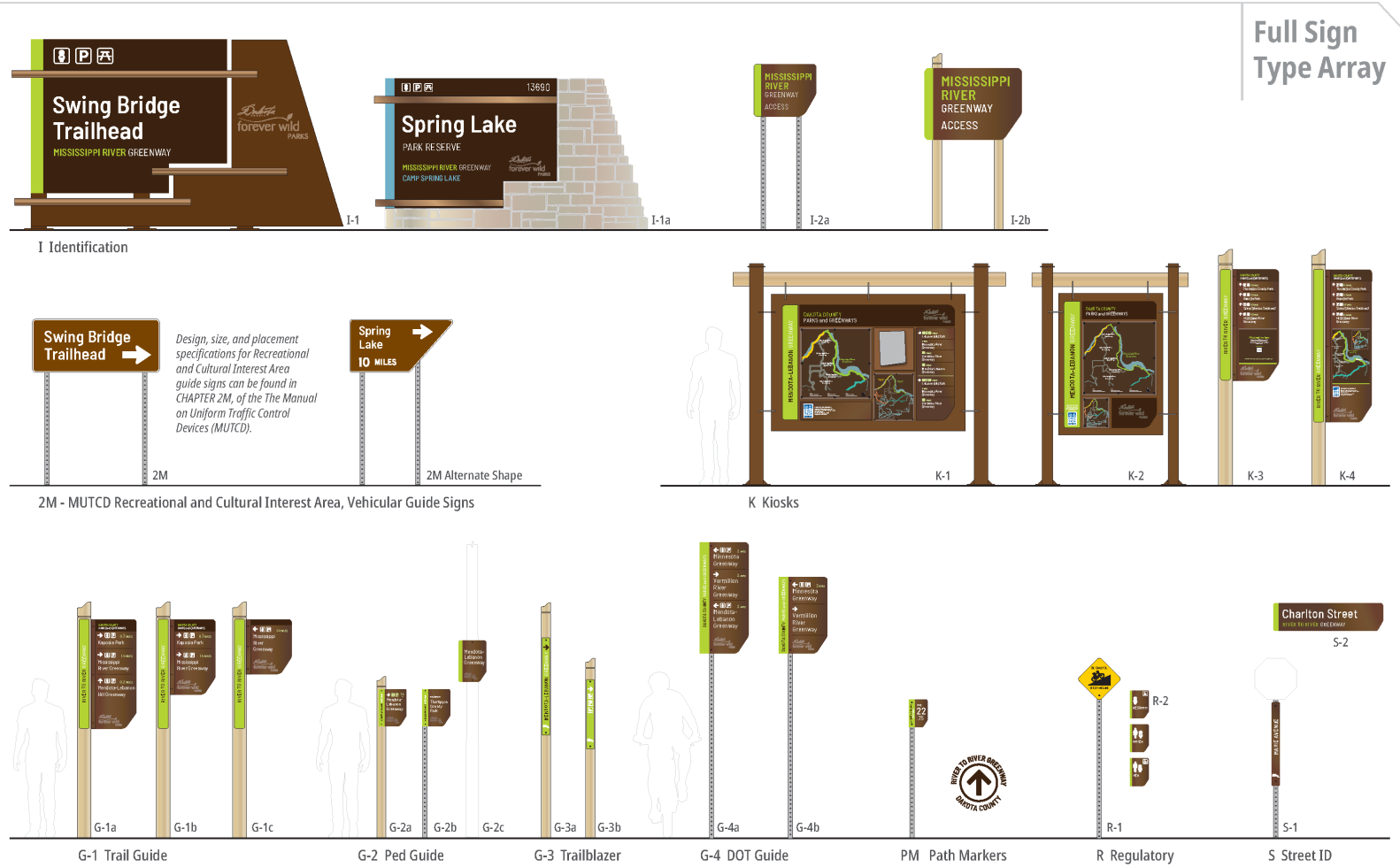


Develop Standards Manual

- Sign Type Array
- Fabrication & Installation Specifications
- Sign Location Guidelines
- Set Back Guidelines
- Sign Programming
- Design Template Layouts
- Cost Estimates
- Phasing/Maintenance Plan
- Fabricator Recommendations

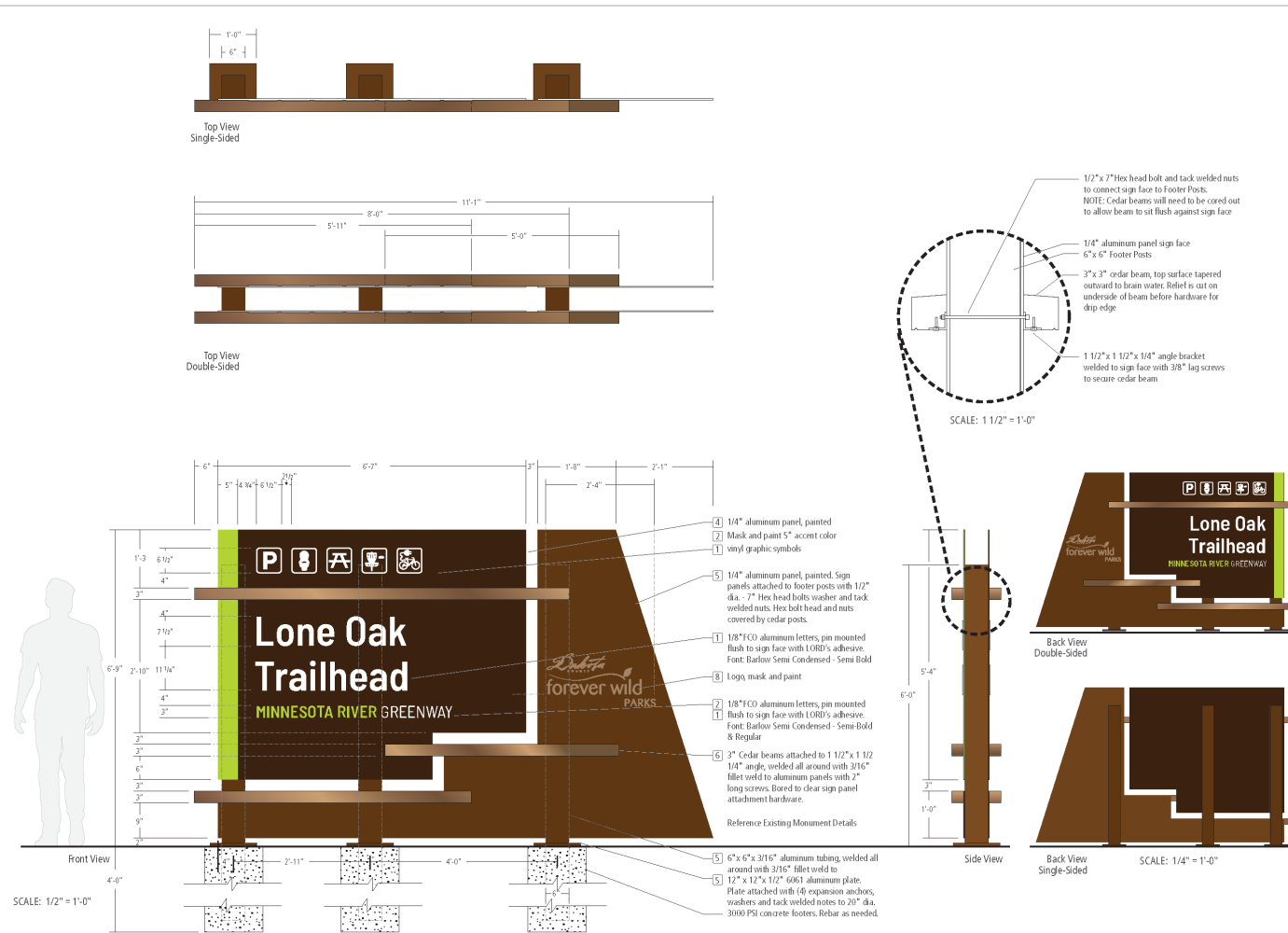


Sign Type Array



Full Sign Type Array

Fabrication & Installation Specifications



I-1 New Monument Identification

Colors

- 1 WHITE
- 2 GREEN
- 3 LIGHT GREEN
- 4 DARK BROWN
- 5 BROWN
- 6 CUSTOM GRADIENT
- 7 LIGHT BROWN
- 8 TAN
- 9 SOFT BLUE
- 10 RED, REG
- 11 BLUE, REG
- 12 YELLOW, REG

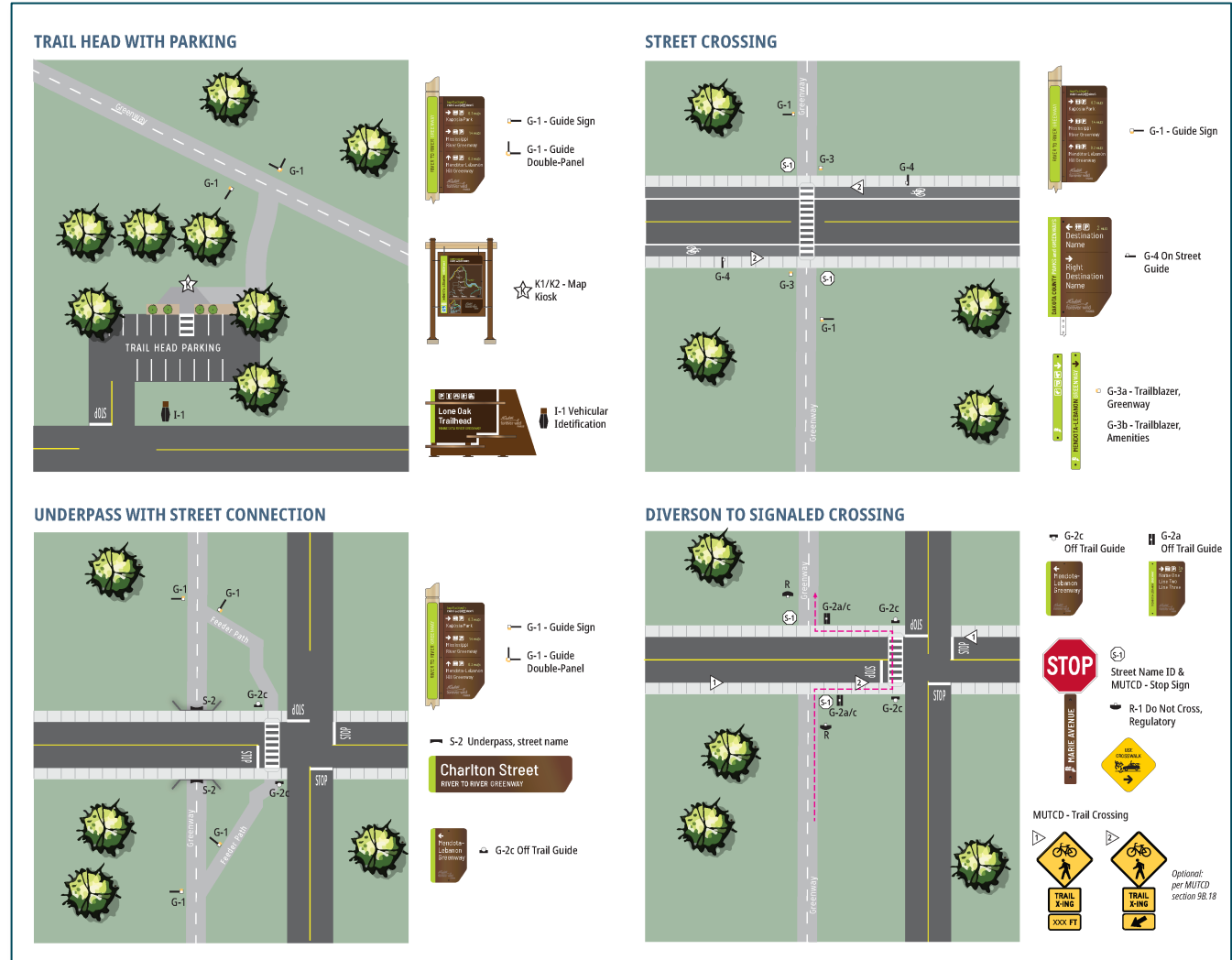
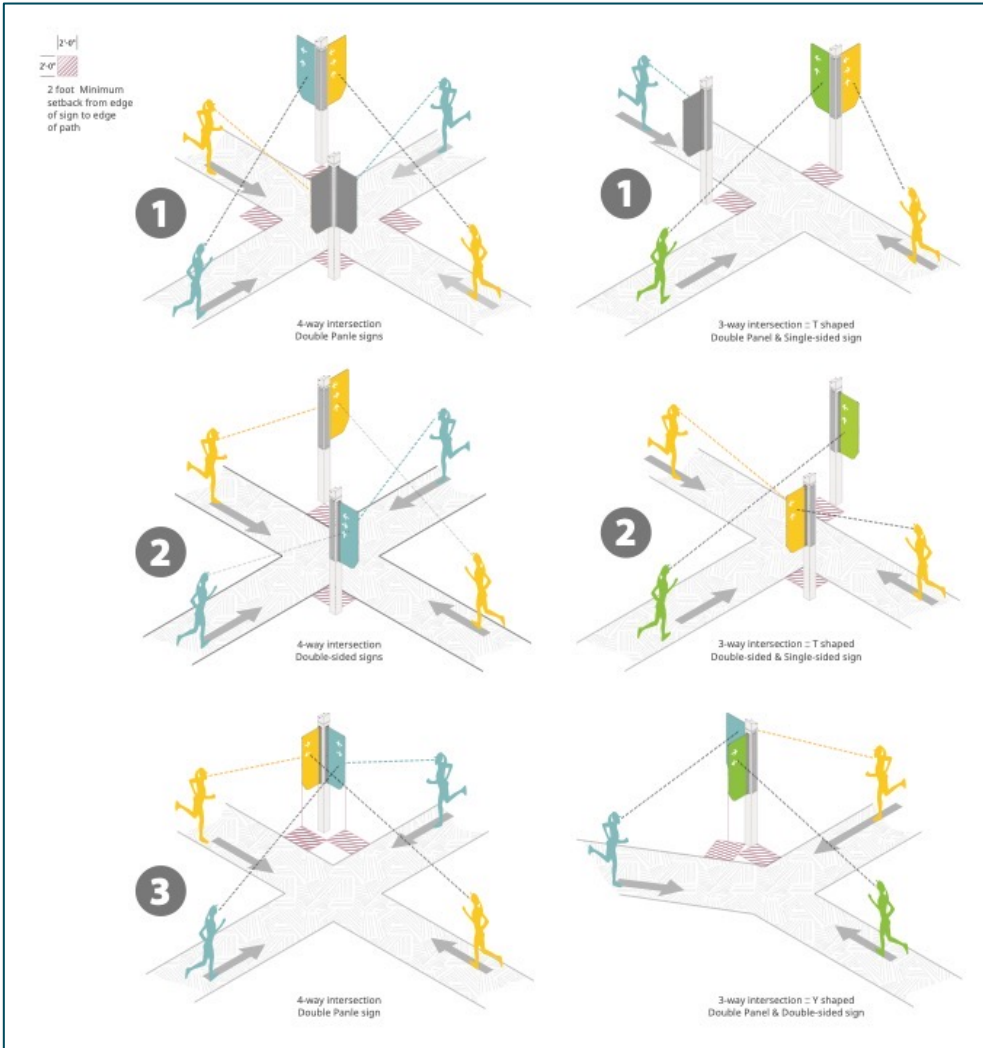
Date	Description
07/13/22	DRAFT



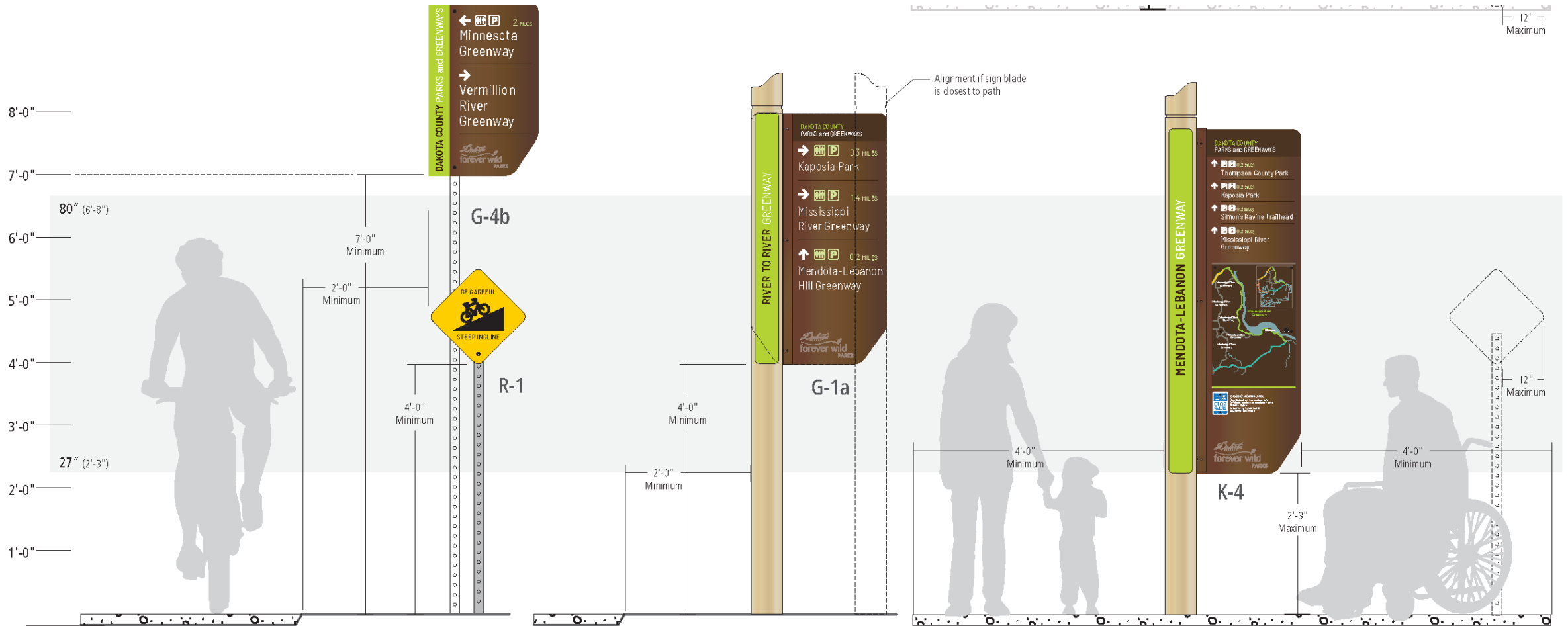
CORBIN
DESIGN

415 S Union, 2nd Floor
Traverse City, MI 49684
(231) 947-1236

Sign Location Guidelines

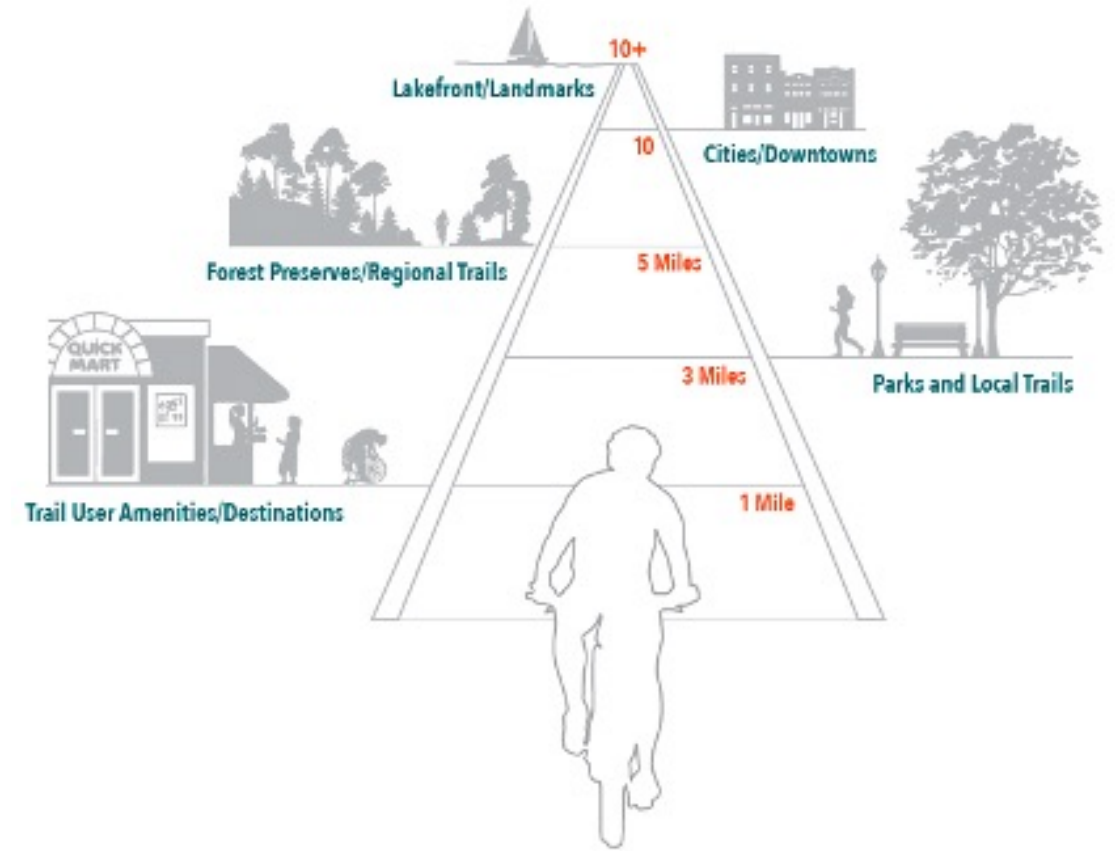


Set Back Guidelines



Sign Programming

- Destinations to include:
 - Be relevant for trail users
 - Consider amenities like restrooms, picnic areas, bike repair stations, etc.
 - Be open year-round
 - Be a public or not-for-profit destination
- When and where to include each type of messaging (see right)
- Order of messaging
 - Left, Right, Straight
 - Alphabetical within arrow group



Design Template Layouts

DAKOTA COUNTY PARKS and GREENWAYS

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name with a Long Name

MAP

FOOTER

Dakota
COUNTY
forever wild
PARKS

Front View

DAKOTA COUNTY PARKS and GREENWAYS

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name

↑ **P** **♿** 0.2 MILES
Destination Name with a Long Name

MAP

FOOTER

Dakota
COUNTY
forever wild
PARKS

Back View

K-3 & K-4 Layouts
Graphic details

Colors

- 1 WHITE
- 2 GREEN
- 3 LIGHT GREEN
- 4 DARK BROWN
- 5 BROWN
- 6 CUSTOM GRADIENT
- 7 LIGHT BROWN
- 8 TAN
- 9 SOFT BLUE
- 10 RED, REG.
- 11 BLUE, REG.
- 12 YELLOW, REG.

Date	Description
07/13/22	Draft 1
12/02/22	Draft 2

Client
Dakota
COUNTY
forever wild
PARKS

CORBIN
DESIGN

415 S Union, 2nd Floor
Traverse City, MI 49684
(231) 947-1236

40

Dakota County Greenways - Design Intent Drawings



EMPIRE STATE TRAIL PLANNING AND DESIGN

Gail Wittwer-Laird | Starr
Whitehouse

Empire State Trail Design Guide & Gateway Implementation



Empire State Trail Design Guide & Gateway Implementation



Empire State Trail Design Guide & Gateway Implementation

Introduction + Brand Framework

EMPIRE STATE TRAIL - DESIGN GUIDE

BRAND FORMATION

One of the most important functions of the brand is to provide a cohesive look and feel for materials and messaging while respecting the existing brand of sections of the trail. This will be accomplished through hierarchy of brand and the addition of brand blazes to existing signage. The Champlain Canal Greenway, Hudson River Valley Greenway, and Erie Canalway are already recognizable brands within the Empire State Trail and will be the primary brand along those sections of the trail and the Empire State Trail brand will be secondary. See Wayfinding + Signage Chapter for brand placement on signage.

EMPIRE STATE TRAIL



EST Gateway Implementation – Engaging Stakeholders

- Client: Hudson River Valley Greenway / Empire State Development
- Donor: Ralph C. Wilson Foundation
- Local Stakeholders:
 - NYS State Fair, Syracuse, NY (Implemented by the Office of General Services)
 - Mayors of Tonawanda & Lockport, NY
 - Genesee Valley Park, Parks Department, Rochester, NY
 - Office of Parks Recreation and Historic Preservation (OPRHP), Buffalo, NY

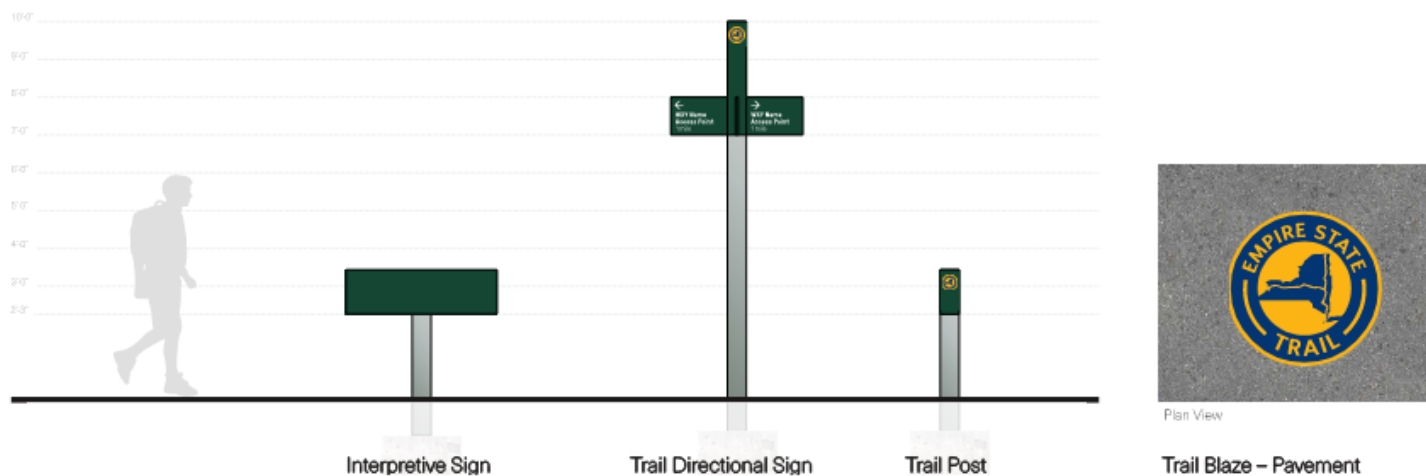
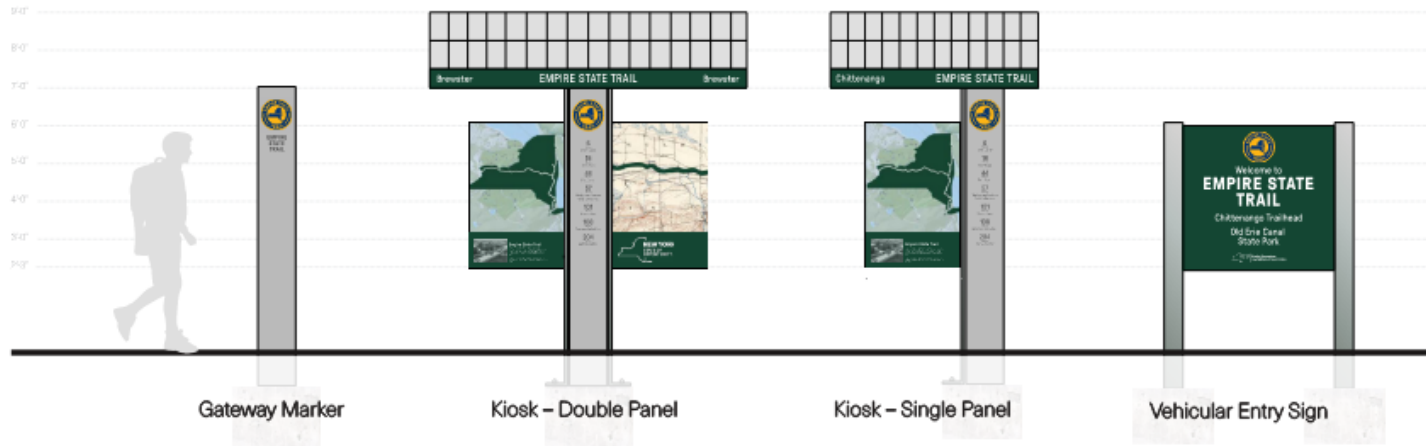


Empire State Trail Gateways – Establishing a *Flexible* Kit of Parks

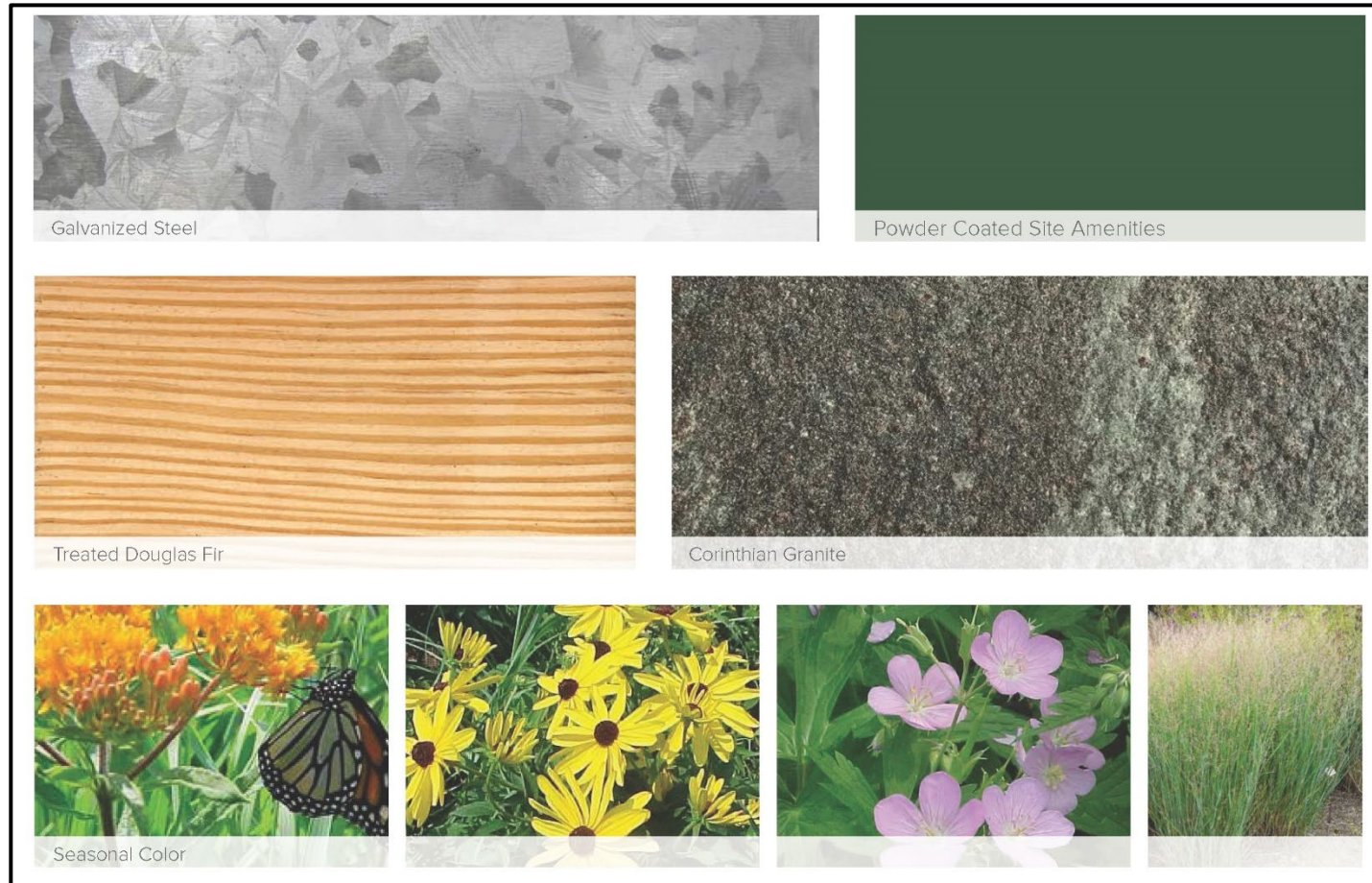
EMPIRE STATE TRAIL AMENITIES BY SITE TYPE	SIGNAGE							FURNISHINGS					AMENITIES				PLANTING					
	Gateway Marker	Kiosk-Double Panel	Kiosk-Single Panel	Vehicular Entry Sign	Interpretive Sign (Optional)	Trail Directional Sign	Trail Blaze-Post	Trail Blaze-Pavement	Picnic Tables	Wooden Benches-Armrests & Backs	Wooden Benches-Backless	Stone Block Benches	Wooden Barrier Rail (As required)	Bicycle Repair Station	Bicycle Racks	Shade Structure (Optional)	Litter & Recycling Receptacles	Bottle Filler & Drinking Fountain	Solar Area Lighting	Canopy Trees	Understory Trees	Herbaceous Plants
GATEWAYS	1	2		4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
<i>Gateways are significant entry points to the Empire State Trail and provide an array of site amenities for both trail visitors and local residents. Gateways are placed approximately every 50 to 75 miles along the trail. Each site celebrates local culture as well as its connection to the larger trail system. Gateway sites are actively maintained and programmed by municipal or community based partners. These locations typically have access to utilities such as water and power and are frequently in close proximity to existing comfort stations or visitors centers.</i>																						
TRAILHEADS			3	4	5	6		8												20	21	
<i>Trailheads are important access points to the Empire State Trail. These sites have small to medium sized parking areas are placed approximately every 25 to 50 miles along the trail. Trailheads are equipped with a simple array of site amenities for visitors such as wayfinding maps, seating and bike repair stations. These sites are minimally maintained and do not have access to existing water, power or comfort stations.</i>																						
ACCESS POINTS - MAJOR						6		8				12									21	22
<i>Major access point are those portions of the trail which cross busy streets and are woven into the fabric of the communities through which the trail passes. In some instances these access points can have an array of simple site amenities such as benches and directional signage. There is an opportunity for communities to adopt their local trailheads by tending plantings or helping to maintain them. Both on-road and off-road signage is deployed to alert people to the trail location and ensure safe crossing.</i>																						
ACCESS POINT - MINOR								7	8												21	
<i>Minor access points occur frequently throughout the system where the trail intersects minor roadways. Typically on-road signage and high visibility striping will alert people to the trail location. Small trail blaze posts or on-pavement trail blazes will be incorporated into both existing and newly constructed portions of the trail.</i>																						

Empire State Trail Gateways – Establishing a Flexible Kit of Parks

OFF-ROAD SIGNS

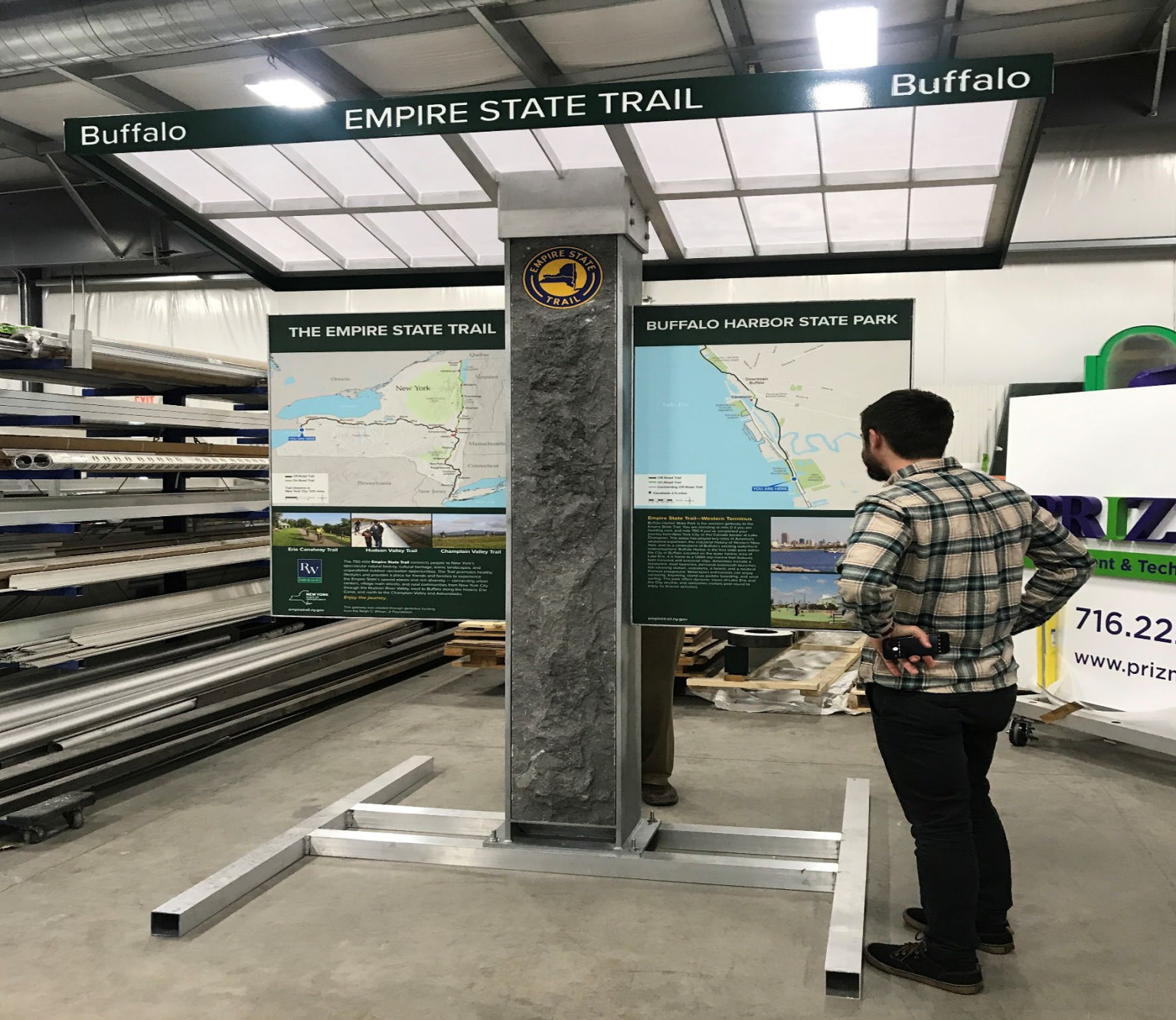


Empire State Trail Gateways – Establishing a Flexible Kit of Parks



Empire State Trail - Proto-typical Gateway Plan





son, Jr. Gateway

Mr. Wilson founded the Buffalo Gateway Foundation to honor the people of Buffalo and his 55-year career in the game of football. He is a devoted family man and a generous philanthropist who has supported many charitable endeavors.

Mr. Wilson requested that the Buffalo Gateway Foundation be named in his honor, including the site of his home and his lifelong home of Buffalo. The Buffalo Gateway Foundation was established in 2011 and has since made a significant impact in the Buffalo community.

The Buffalo Gateway Foundation's mission is to invest in the people of Buffalo and to make Buffalo a more vibrant and connected future.

The Buffalo Gateway Foundation made a significant investment in the Buffalo Gateway Initiative, which includes the development of signature legacy parks and regional trails. The initiative supports the Foundation's efforts to connect communities, encourage healthy lifestyles and promote economic growth.

The Buffalo Gateway Initiative committed \$200 million split equally across Western New York and Southern Michigan regions to support the development of signature legacy parks and regional trails. The initiative supports the Foundation's efforts to connect communities, encourage healthy lifestyles and promote economic growth.

The Buffalo Gateway Initiative was established in 1925, and includes developed trails, and extensive natural resources.

The Buffalo Gateway Initiative includes the development of signature legacy parks and regional trails. The initiative supports the Foundation's efforts to connect communities, encourage healthy lifestyles and promote economic growth.

The Buffalo Gateway Initiative includes the development of signature legacy parks and regional trails. The initiative supports the Foundation's efforts to connect communities, encourage healthy lifestyles and promote economic growth.

Buffalo's Olmsted Park System

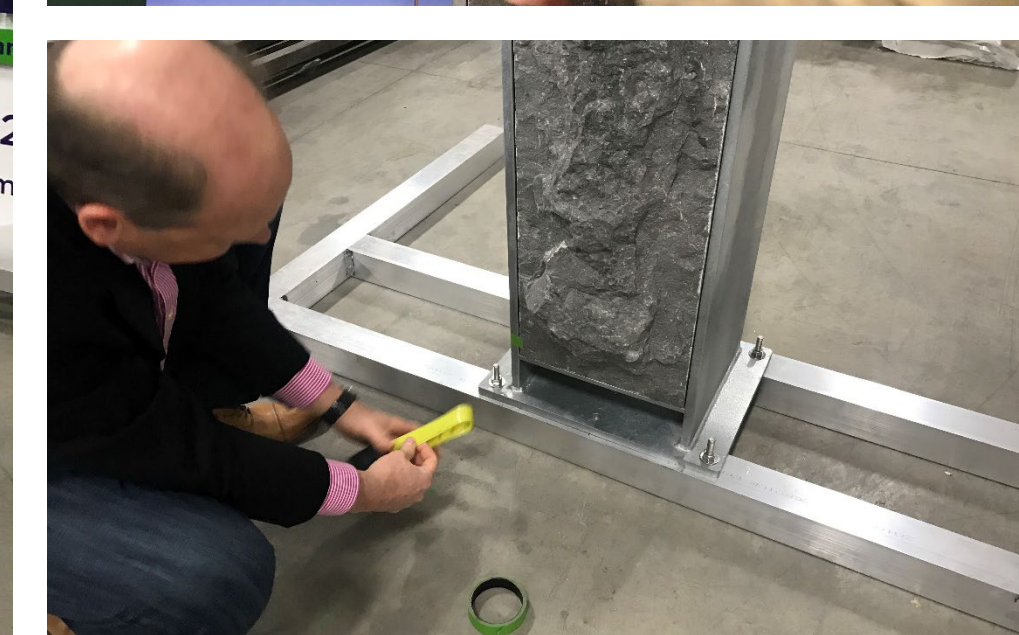
Buffalo is home to America's first urban park system. Designed by Frederick Law Olmsted in the 1870s, the system encompasses 6 parks, 7 parkways and 8 traffic circles. As one of Olmsted's largest bodies of work, it is listed in the National Register of Historical Places. Riverside Park, pictured right, was designed in 1886-1899 by Frederick Law Olmsted's sons and successors. This park features the River Rock Gardens and recreational amenities such as tennis and baseball.

Canalside

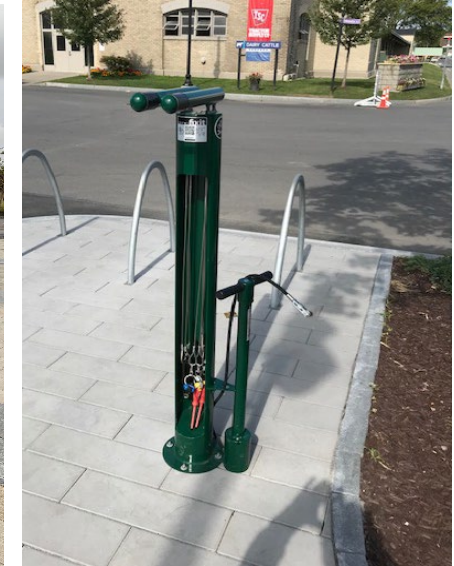
Located at the former Western Terminus of the Erie Canal, Canalside is at the heart of Downtown Buffalo's revitalization. Just 2 miles away, it is the site of hundreds of free and low-cost events and activities year-round including fitness classes, concerts, cultural events, and more. The Boardwalk at Canalside's Central Wharf, pictured right, features a beach and beautiful sunset views over the Buffalo River. In winter, the Ice at Canalside offers public ice skating, ice bikes, curling, and ice bumper cars for endless cold weather fun.

Tift Nature Preserve

Tift Nature Preserve, right across Fuhrmann Boulevard, is a 264-acre nature refuge dedicated to conservation and environmental education. Animals from the entire region take advantage of its ponds, marshes and woodlands. In addition to its five miles of trails and three boardwalks, viewing blinds for visitors to enjoy, Tift's Jane Darling Education Center provides including educational displays, restoration programming and event space.



The Kit of Parts – Integrated wayfinding and landscape elements





Buffalo Harbor State Park-Before



Buffalo Harbor State Park-After



Rochester-Before Historic Olmsted Park, Existing Canal Trail



Rochester



STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

SIGNRESEARCH.ORG



Lockport



Lockport

Lockport

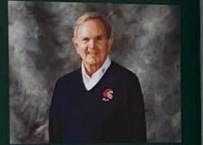
EMPIRE STATE TRAIL

Lockport



The Ralph C. Wilson, Jr. Gateway

In 1973, Ralph C. Wilson, Jr. founded the Buffalo Club and former National Bank and the owners of the Buffalo Club. Throughout his 50-year ownership of the bank, he continued to support the city through his contributions to the game of football, but also through his various charitable endeavors. Prior to his passing in 2014, Mr. Wilson requested that a signature block of his name, including the name of the team, be used to continue his legacy generously of some by helping the Foundation that bears the name—The Ralph C. Wilson, Jr. Foundation.



With a grantmaking capacity that began with more than \$1 billion, the Foundation's mission is to focus on the quality of life of the people of the Buffalo home of Western New York and the Buffalo home of Eastern Michigan. To make an immediate, substantial and measurable impact in these communities, the Foundation is proud to fund all of its funds by 2025.



Niagara Escarpment

On October 17, 2018, the Foundation made a historic commitment to support parks and trails in honor of the Wilson 50th birthday. A rare opportunity to not just honor it, but to make a stronger impact and a more connected future through Mr. Wilson's generosity.



The Best Choice

Trail engineers were faced with the daunting challenge of how to traverse the Buffalo Escarpment and take the trail to its heart in Buffalo. The trail would traverse the Buffalo Escarpment in Lockport, where the Escarpment runs in a north-south direction. The Buffalo Escarpment was formed and raised by the Niagara Escarpment, the former extension, and the formation of Niagara Falls.



Niagara Heritage Village

Historic Lockport is the only village in the Buffalo Niagara Heritage Village project. The village is a 28-acre grounds, which will be a historic site for the Buffalo Niagara Heritage Village. The village will be a historic site for the Buffalo Niagara Heritage Village. The village will be a historic site for the Buffalo Niagara Heritage Village.



Kennel Center

Kenel Center is a 13-acre park in Buffalo, New York. The center is a 13-acre park in Buffalo, New York. The center is a 13-acre park in Buffalo, New York. The center is a 13-acre park in Buffalo, New York.



Wine Trail

The Wine Trail is a 13-mile trail in Buffalo, New York. The trail is a 13-mile trail in Buffalo, New York. The trail is a 13-mile trail in Buffalo, New York. The trail is a 13-mile trail in Buffalo, New York.



The Wetlands

The Wetlands are a 13-acre park in Buffalo, New York. The wetlands are a 13-acre park in Buffalo, New York. The wetlands are a 13-acre park in Buffalo, New York. The wetlands are a 13-acre park in Buffalo, New York.



Lockport



Tonawanda-East



Tonawanda-West

ONGOING MANAGEMENT AND MAINTENANCE

Paul Dudley |
ID Signsystems

Brickyard
Trail



SHARED
USE
TRAIL
FIREARMS
AND TRAIL
DANGERS
WEAPONS
OR EQUIPMENT
OR TRAIL
READ
LAW
STRICTLY
ENFORCED
TRAIL USE

ONGOING MANAGEMENT AND MAINTENANCE

Materials

- Material selection
- Finishes and Graphics

Modularity

- Value Engineering
- Multiple trades coordination
- Easy Update and Accessibility

Service and Maintenance

- Vandal resistance
- Cloud based management





Empire State Trail

Stone column with inset cast
plaques & galvanized steel base

Our questions

- Is the specification build ready
- Engineering review or every design
- Sampling to ensure conformance
- Lead times v contract timeline
- Long term durability
- Protection
- Special handling requirements
- Staging and early actions

Materials

A balance of durability, ease of fabrication, maintenance and appearance

- Steel
- Aluminum
- Fiberglass
- Acrylic
- Wood
- Stone
- Concrete



Graphics and Materials

Durable graphic production has evolved significantly with new technology including DHPL, powder coated graphics durable vinyl and clear coating.

Considerations:

- Durability
- Weather conditions
- Changeability
- Replaceability
- Material availability



Sign Preliminary Rendering

Scale: NTS

4"X 4"X 3/16" STEEL TUBING W/
WELDED CAPS

WELD FRAME EXTENSION

LETTERING TO BE LASER CUT
INTO PANEL

PANEL TO BE WELDED
TO FRAME

"36"X20" GRAPHICS PANEL"
MOUNTED USING S/S 10-24
PIN-IN-HEX DRIVE SCREWS (6)

RAIL MECHANICALLY FASTEN
TO MOUNTING PLATE

1/4" T STEEL ANGLED
RAIL MOUNTING

10"X 30"X 1/2" BASE PLATE
W/ (4) 5/8" DIAMETER HOLES
FOR 1/2" DIAMETER ANCHOR BOLTS



Front View

Modularity

Plan for ongoing system growth, additions over time

Accessible for Information updates, maps and copy changes

Repair and maintenance

Design of each part and connection for durability and buildability



Modularity and Value Engineering

Engineer as a family of signs and parts

Cost of getting to the site and installation

Review of vendors and materials

Standard sizes

Off the shelf systems



Custom signs are not
always easily replicable

Service and Maintenance

By following a modular approach your sign vendor can easily replicate and replace damaged elements.

It is a good idea to keep an inventory of spare parts and replacement elements.



Cloud Based Management Database

Permanent photo and sign data record
 Manage changes, updates and service history
 Shared record with multiple stakeholders

Location	Status	Date	Action
TPP BOXART CITYWIDE WEST FACE	Active	12/15/2020	Completed
TPP BOXART LOCAL EAST FACE	Active	12/15/2020	Completed
TPP BOXART WEST FACE	Removed	12/15/2020	Completed
TPP BOXART EAST FACE	Removed	12/15/2020	Completed