City Council Staff Report

MAPLETON

Date:
7/6/22

Applicant:
Mapleton City

Prepared By:
Logan Miner, Parks Director

Public Hearing:
No

Attachments
1. Resolution.
2. Proposal.

REQUEST

Adopt a resolution awarding contracts to Avid Trails for the preparation of a Trails Master Plan and a Mapleton Bike Park.

BACKGROUND & DESCRIPTION

During a Council retreat in February of this year, staff and the Council discussed the need for a comprehensive trails plan, particularly for the bench areas of the City. A trails plan will allow the City to properly plan and prepare for the construction and maintenance of our future trail systems. The City solicited bids and is recommending awarding the contract to Avid Trails based on their superior experience and proposal. The project would include:

- Preparation of a Trails Master Plan with an emphasis on the Mapleton Bench. Development of the plan would include the following:

  Phase 1: Site and Landscape Assessment.
  Phase 2: Project Kick-Off & Site Visits.
  Phase 3: Mapleton Community Pubic Input (Optional).
  Phase 4: Trails Master Plan Development and Presentation.

- Preparation of a plan for a bike park. The City is receiving approximately 30 acres as part of the Mapleton Village project in the south part of town. The consultant would prepare a plan to utilize some of that 30-acre parcel as a bike park. Development of the plan would include:

  Phase 1: Site Visit, visioning session with City Staff and Stakeholders.
  Phase 2: Present Bike Park site analysis and site opportunities map.
  Phase 3: Present draft Bike Park schematic plan.
  Phase 4: Present final Bike Park plan, renderings, detail enlargements and budget.

Budget: The proposal for the trails master plan is $36,700 with an optional amount of $11,500 for public outreach. Staff is supportive of the additional amount for public outreach. The proposal for the bike park plan is $10,600 for a total contract of $58,800. Staff is recommending that the project be paid for out of the Parks and Recreation impact fees (payback portion).

RECOMMENDATION

Adopt the resolution authorizing the mayor to sign a contract with Avid Trails for the Trails Master Plan and Bike Park Plan in an amount not to exceed $58,800.

RESOLUTION NO. 2022-

RESOLUTION AUTHORIZING THE MAYOR TO SIGN A CONTRACT WITH AVID TRAILS FOR THE TRAILS MASTER PLAN AND BIKE PARK PLAN FOR AN AMOUNT OF $58,800.

WHEREAS, the City desires to have an updated and comprehensive trails master plan; and

WHEREAS, the City desires to have a bike park plan for a portion of a 30 acre open space parcel that it will own in the south part of the City; and

WHEREAS, The City sent out a request for proposals to prepare a trails master plan and bike park design; and

WHEREAS, the City received two proposals; and

WHEREAS, the City has selected Avid Trails as the most qualified to complete the projects based on their proposals that have been submitted to the City; and

WHEREAS, there is sufficient funds in the payback portion of the Parks and Recreation Impact Fees to complete these projects.

NOW THEREFORE, BE IT RESOLVED by the City Council of Mapleton, Utah to adopt the resolution authorizing the mayor to sign a contract with Avid Trails for the Trails Master Plan and Bike Park Plan in an amount not to exceed $58,800.

This resolution adopted this 6th day of July, 2022 by the City Council of Mapleton City, Utah.

_____
Dallas Hakes
Mayor

ATTEST:

_____
Camille Brown
City Recorder



PROPOSAL FOR

Mapleton Bike Park Design

MAPLETON, UTAH
JUNE 28, 2022

AVID TRAILS

Introduction

Founded in Park City, Utah in 2013, Avid Trails is comprised of a unique team of planners, designers, builders, hikers, mountain bikers, road cyclists, snow sport and outdoor enthusiasts who share a passion for providing access to great trails and recreation opportunities. Our planning philosophy is focused on the user experience, carefully considering the land and sensitive environmental resources, long term sustainability and deeply understanding the desires of anticipated users.

With countless miles of trail planning and construction projects and an ever-expanding bike park design portfolio, the Avid Trails team is experienced in all facets of planning, design, layout, and construction of sustainable multi-use trails, mountain bike trails, pump tracks, skills trails, jump trails and other outdoor recreation amenities. Every Avid design and construction team member is a fanatic mountain biker who takes pride in creating world class riding experiences for riders of all skill levels.

The best bike park designs accommodate fun and challenges for a variety of skill levels, and provide outdoor enjoyment for the whole community.

Avid Trails projects range from small community bike parks (less than one acre) to large scale master planning and construction for projects up to 30,000 acres. We work throughout the United States including completed projects in over 15 states. As such, we have excellent experience designing and building in a wide variety of terrain and conditions.

In addition to typical trail and bike park projects, our team of talented planners and designers have created and implemented concepts for urban parks, outdoor fitness nodes, trailheads, regional multi-use pathways, tree canopy trails, zip-lining facilities, ski trails and more. Our capabilities include:

- Complete Trails Planning and Design
- GIS Services
- Trail Signage and Wayfinding Design and Installation
- Map Creation and Illustration
- 3D Rendering
- CAD and Construction Drawings
- Trail Construction
- Bike Park Feature Design and Construction
- Pump Track Design and Construction
- Trailhead Design and Construction
- Trail Maintenance Guides and Oversight
- Trail Volunteer Training

We are proud members of the Professional Trail Builders Association and the Urban Land Institute.

Bike Park Design Experience

The Avid Trails design team has significant experience designing bike parks and bike-optimized trails. Our menu includes pump tracks, flow trails, slopestyle and dirt jump lines, berms, rollers, skills zones, skinnies, teeters, step-ups, step-downs, A-frames, wall rides, drops, rock gardens, rock armoring, culverts, bridges, and even BMX street facilities where appropriate. In short, we love all things bike, and our design always focuses on fun.

We also have excellent experience navigating the public and municipal process. We understand the importance of public input, open and transparent communications and record keeping. Humbly, we also think we are quite good at collaborating with stakeholders, developing and presenting concepts, and seeing the project through to a successful outcome.

As we are a design + build firm, everything we design is also vetted for implementability, and we have extensive experience with ground-truthing our designs in the field.

Our Process: Vision & Programming

We believe that what makes a bike park great is more than just the trails and facilities. The best bike park designs are an opportunity to integrate outdoor recreation with community and gathering areas for all types of users.

For this reason, our process begins by listening. We listen to the stakeholders. We listen to the people who will use the park most. And we listen to the land.

We begin with a thorough field study of the site to help us get our bearings, and understand what is possible in the space. The design should be an integral part of the landscape, not imposed upon it, and the land will teach us what is appropriate.

After the site visit, we will proceed to a visioning session with the City and key stakeholder groups, where we continue to listen. We guide the process, and answer important questions like:

- What ability levels should be included and which are most critical?
- What is the right scale for the facilities given the space and constraints?
- What is the desired character of the bike park?
- Who is the desired demographic for the site?
- How do people access the site?
- How do we make the experience fun and challenging to make visitors want to return again and again?

Outcomes from the visioning session might also include confirming site selection, establishing environmental goals, identifying bike park branding or naming opportunities and creating a list of possible community gathering areas and amenities for park users. This information informs the process before any design takes place.

We will work diligently with the client team to understand and prioritize the desired elements of the bike park, and make design recommendations to achieve the highest and best use of the available land.

Data Collection & Analysis

Next, the Avid Trails team would assess site conditions and site resources using GIS spatial analysis software. Areas of study would include site hydrology, soil, topography, vegetation, priority habitat areas and species, adjacent land uses, and connections to other Mapleton trails, parks and schools. We would use information gathered from the client and publicly available data to run these site analyses.

The outcome of the analysis phase would be a suitability assessment for which areas of the site are most appropriate for the programming established during the visioning phase. This suitability assessment would inform the scale and layout for the Mapleton bike park and how feasible it is to include each desired component.







An Avid Trails bike park design often includes flow trails, jump lines, pump tracks, built features and easy-to-read trail signage.

Conceptual & Schematic Design

Following the visioning and initial desktop analysis process, the Avid Trails team will assess the viability of the desired programs for the site, including flow trails, jump lines, pump tracks, skills trails and features, climbing trails and other progressive bike park components appropriate to the community. Our designers will also consider the integration of bike support facilities and maintenance areas as well as associated community gathering spaces at this time. Information compiled during the site analysis and feedback received during the visioning session would influence which programs are viable and shown on the schematic design.





From flow trails to pumptracks to built bike features, Avid Trails knows how to design and shape dirt to create an awesome experience for all levels of riders.

The Avid Trails team will draft two alternatives for the site and present them to City Staff and/or appropriate stakeholders. Any feedback or revisions would then be incorporated into a final schematic design plan for review and approval by the City. The level of detail of this schematic plan will be appropriate to establish a construction budget, phasing plan, and to solicit funding or bids as needed.

Client Engagement and Deliverables

Engagement with the City would be ongoing throughout the design phase of the project, and we expect an appropriate mix of in-person and virtual meetings. Input from these meetings will be integrated throughout the entire planning process.

The phases of engagement would be as follows, with the potential for additional meetings as deemed necessary:

- Phase 1: Site visit, visioning session with City staff and stakeholders
- Phase 2: Present site analysis and site opportunities map
- Phase 3: Present draft schematic plan
- Phase 4: Present final bike park plan, renderings, detail enlargements, budget

Project Management

Our project management philosophy is focused on frequent communication with all appropriate stakeholders including City Staff and other key groups as identified by the client.

The project manager will provide a project schedule with key milestones following the project kick-off meeting.

Our typical communications process will include weekly project updates via email, and bi-weekly team phone calls to review progress.

We Work Well With Others

Nearly every Avid Trails project has some level of stakeholder input and collaboration, including IMBA bike chapters, volunteer groups, National Park Service, US Forest Service, private land owners, developers, City and County Staff, and elected officials. We play nice with all. We understand the nuance, budget parameters and timelines of big and small municipalities, as well as the process of procurement and public bid.

We follow the visioning process by looking at what is feasible for a given site. We evaluate things such as the spatial footprint necessary for each amenity (e.g. a kids bicycle zone may require a footprint of ½ acre and a relatively flat slope) and overlay this onto the site. Our team of landscape architects assess spatial layout and ensure that all components have compatible uses and locations within the park. Again, we believe quality bike parks are more than just nice trails, and include other amenities that make parks great: gathering areas, site access, safety, lighting, maintenance, and our team has the ability to vet and design these additional features.

How to Budget a Bike Park

The good news about budgeting is we've designed and built a lot of bike parks and trails, so we have a very good idea of construction costs across many different regions of the country. When we plan a bike park, we include probable construction costs as part of the design, providing line item budgets for trail types, bike features, rock work and the like. This gives our clients a menu of bike park elements in which they can prioritize and phase as budget allows. Conversely, because we know general costs up front, we also have the ability to design to a budget, if that is the approach the City would prefer.

Bike Park Maintenance

All trail systems need regular maintenance, and we can provide a variety of services for taking care of your investment. Following an approved design, our team will be able to determine a opinion of probable cost for annual maintenance. This process includes assessing required ongoing maintenance tasks based on the final plan and available local resources (e.g. volunteer maintenance capability vs. district staff) to create a realistic maintenance budget. Some options that we've performed for our clients include:

- Train and coordinate volunteer teams for maintenance days
- Determine probable costs for annual maintenance by professional trail builders (ourselves or others)
- Help the City write an RFP for trail maintenance by others
- Develop a maintenance handbook specifically for the Mapleton Bike Park to be used by City Staff

While these maintenance items are not included in this scope, we have the ability to provide any or all of these services as needed.

Proposed Design Fees

The following costs cover all four phases and deliverables:

Phase 1: Site visit, visioning session with City staff and stakeholders

Phase 2: Present Bike Park site analysis and site opportunities map

Phase 3: Present draft Bike Park schematic plan

Phase 4: Present final Bike Park plan, renderings, detail enlargements and budget

Total Project:	$10,600

We request a deposit of 20% to begin work, with monthly progress billing based on percentage of project completed. Avid Trails works in a GIS platform. All client-related CAD data will be converted to spatial layers for use in GIS. This proposal includes up to 4 hours of conversion time. Any additional time for data management, preparation and conversion will be billed at $200 per hour with prior approval by client.

Some of Our Bike Park Projects

The following pages showcase a few of the bike park projects we're proud of designing. Take a look, or better yet, go ride one of them!

Gateway Flow Trails

Traveler's Rest, SC

Avid Trails Design + Build
Project Size: 4 Acres
Completed: 2021

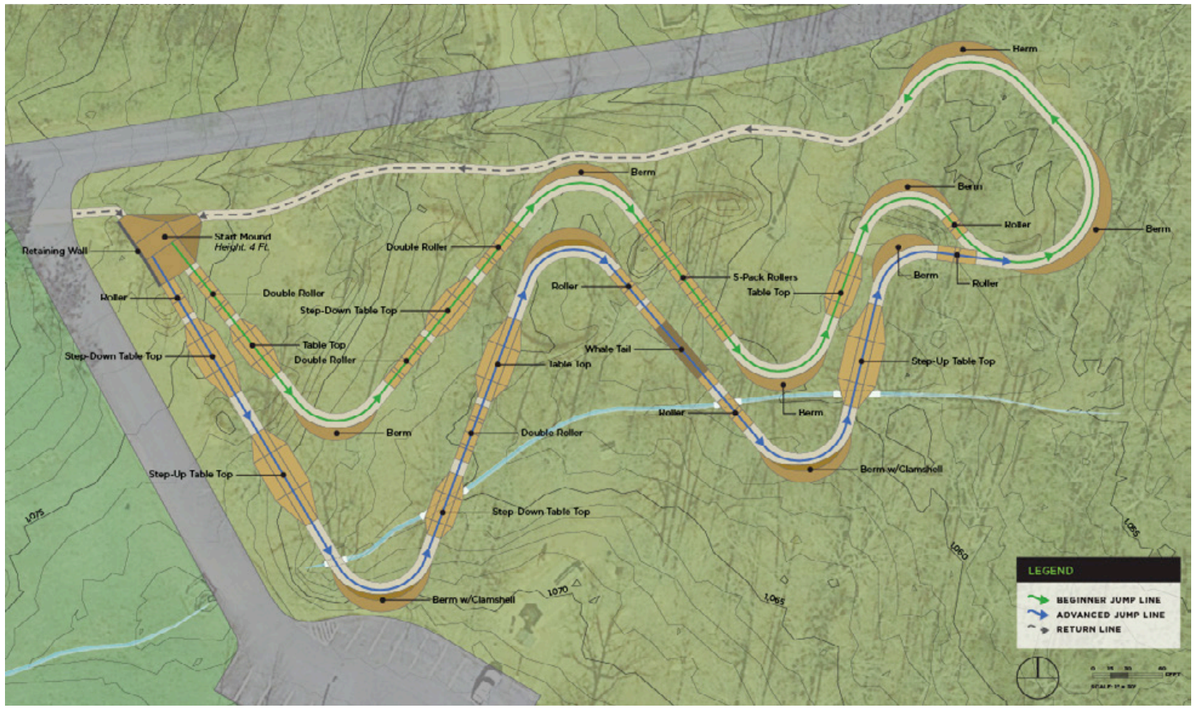
Just an hour from Asheville, NC, Traveler's Rest is poised to become one of the Upstate region of South Carolina's mountain biking hot spots. Gateway Park is situated in the center of town and features a small system of XC trails, a dirt pump track and a small area for jump trails.

The Avid Team was engaged by Greenville County and Upstate SORBA to re-imagine the existing jump trails into a sustainable and progressive riding experience. Our design included a beginner jump trail, and a "dark blue" intermediate to advanced trail with larger berms, table tops, step-ups, step downs and rollable doubles. The construction process included installation of drainage culverts, stockpiling clay cap dirt from the old lines, importing roughly 460 tons of dirt, and re-naturalizing the old decommissioned trails.











High Bridge Flow Trails

The Commons, High Bridge NJ

Avid Trails Design + Build
Project Size: 12 Acres
Completed: 2021

Avid Trails partnered with the Borough of High Bridge, NJ, JORBA and local advocates to plan, design and build the state's first mountain bike designated trails on public land. We developed a concept plan, presented to town council for approval, obtained funding through JORBA, raised additional funds then completed construction. A little over a year later and this little trail system is quickly becoming one of the most popular in New Jersey for riders of all ability levels.











Orem Bike Skills Park

Mt Timpanogos Park, Orem UT

Avid Trails Co-Design + Build
Project Size: 4 Acres
Completed: 2020

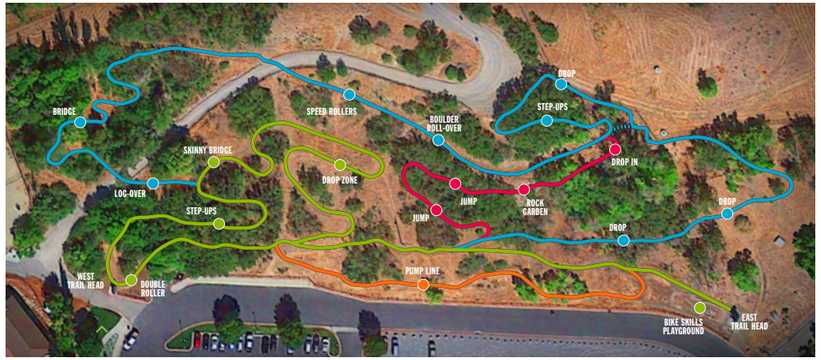
The Orem Bike Skills Park features beginner, intermediate and advanced mountain bike trails in a compact, easy to navigate environment. It's progressive design and obstacles allow for new riders to hone their skills safely.
It's also a ton of fun.

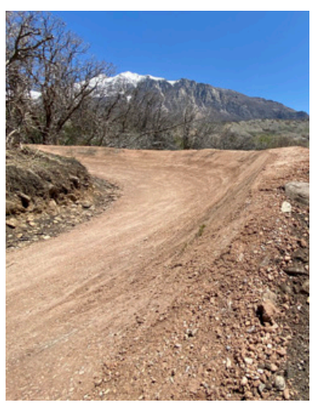
The Avid team built flow trails, linear pump line, skills zone and all features along the way, including installations of timber and stone. We also designed and installed informative trail signage that identifies trail types and level of rider experience needed.





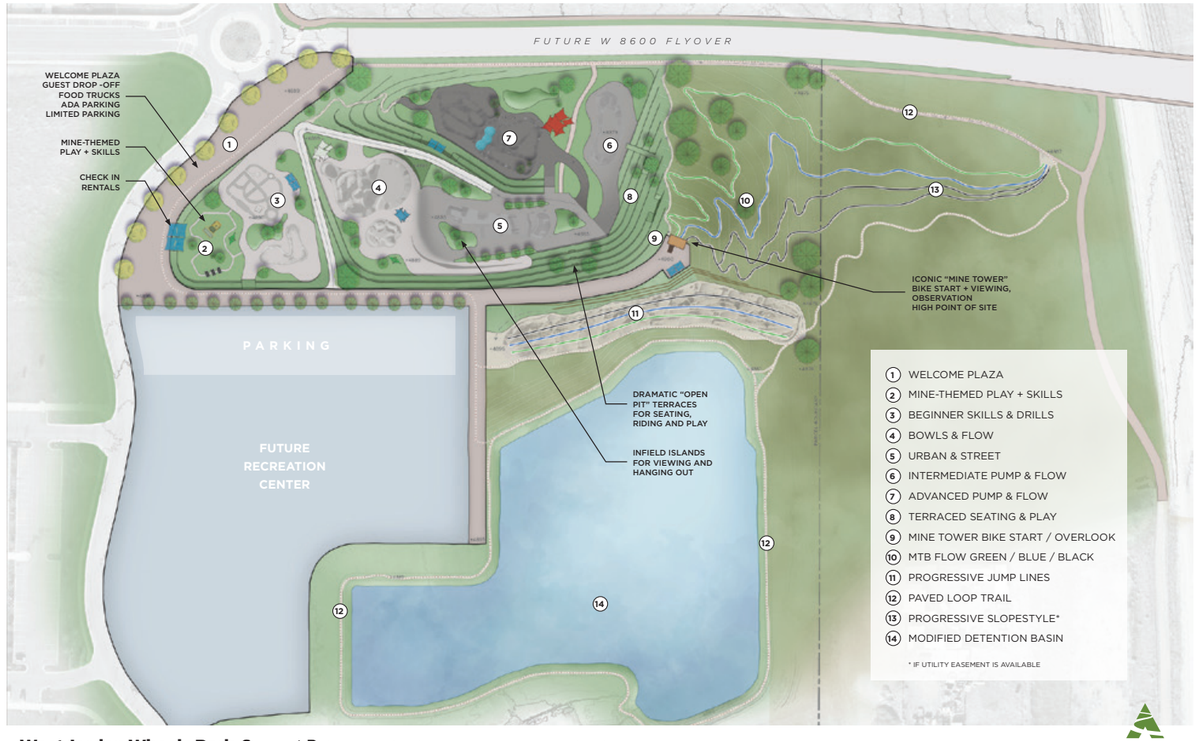












West Jordan Wheels Park Concept B (11 acres with utility easement; 6.5 acres without)

AVID TRAILS





West Jordan Wheels Park Conceptual Plan

West Jordan, UT

Avid Trails Design
Project Size: 11 Acres
Completed: 2021 (Design)

Avid Trails was selected to do the conceptual design for this major public bike and skate park in the Salt Lake City valley. We tapped into the local open-pit mining culture and created an iconic playground that utilizes terraced forms and mining-themed features. City officials were delighted with the concept, and are approaching the local mining operations for co-branding and funding of the project.

Twining Valley Bike Park Conceptual Plan

Upper Dublin, PA

Avid Trails Design
Project Size: 81 Acres
Completed: 2021 (Design)

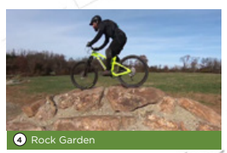
Upper Dublin's planning and engineering firm hired us to help plan and design a 2-mile multi-use single track trail system on a former municipal golf course property that is being converted to a public park. Working with the engineers, our team designed a fun, sustainable and progressive trail that will appeal to both bikers and hikers. It was critical to be mindful of the environment so we worked closely with the team to respond to Pennsylvania Department of Natural Resources requirements for erosion and sediment control, storm water management, sensitive environment and species avoidance and so on.

Our team also met with community members including the local NICA teams to understand their needs and wishes for the new trail. This lead to the inclusion of progressive skill building features as alternate lines throughout the 2-mile loop. Construction is slated to begin in Summer of 2022 and when completed will fill a significant void in the regions trail and MTB infrastructure.


1 Wooden Double Roller


2 Wooden Clamshell


3 Progressive Skinnies


4 Rock Garden


5 Earthen Rollers into Banked Berm



8 Logover Pyramid

6 Wooden Zig Zag Bridge

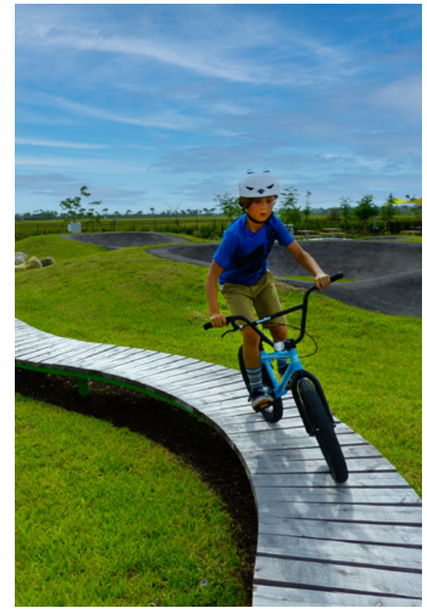
9 Progressive Jump Line

7 Progressive Drop Zone

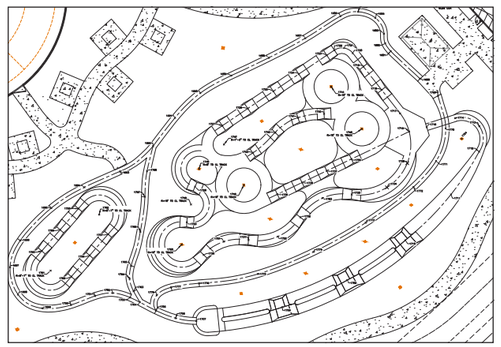
10 Rock Over



Family Bike Park | Westlake West Palm Beach, FL | January 26, 2018











Westlake Family Bike Park

Loxahatchee, FL

Avid Trails Design + Build
Project Size: 1.5 Acres
Completed: 2019

This 1.5 acre bike park features a beginner pump track oval, an intermediate-advanced pump track with multiple lines and options, a progressive jump line, and a fun and challenging skills loop encircling the park.

Oakley Trail Park

Oakley, UT

Avid Trails Design + Build
Project Size: 40 Acres
Completed: 2019

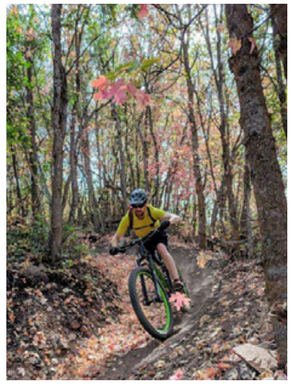
Oakley Trail Park has a variety of fun and challenging trails for mountain bikers of all levels. Tame and twisty Buckaroo teaches new riders the art of flow, while Rodeo and Barrel Racer give advanced riders a run for their money.



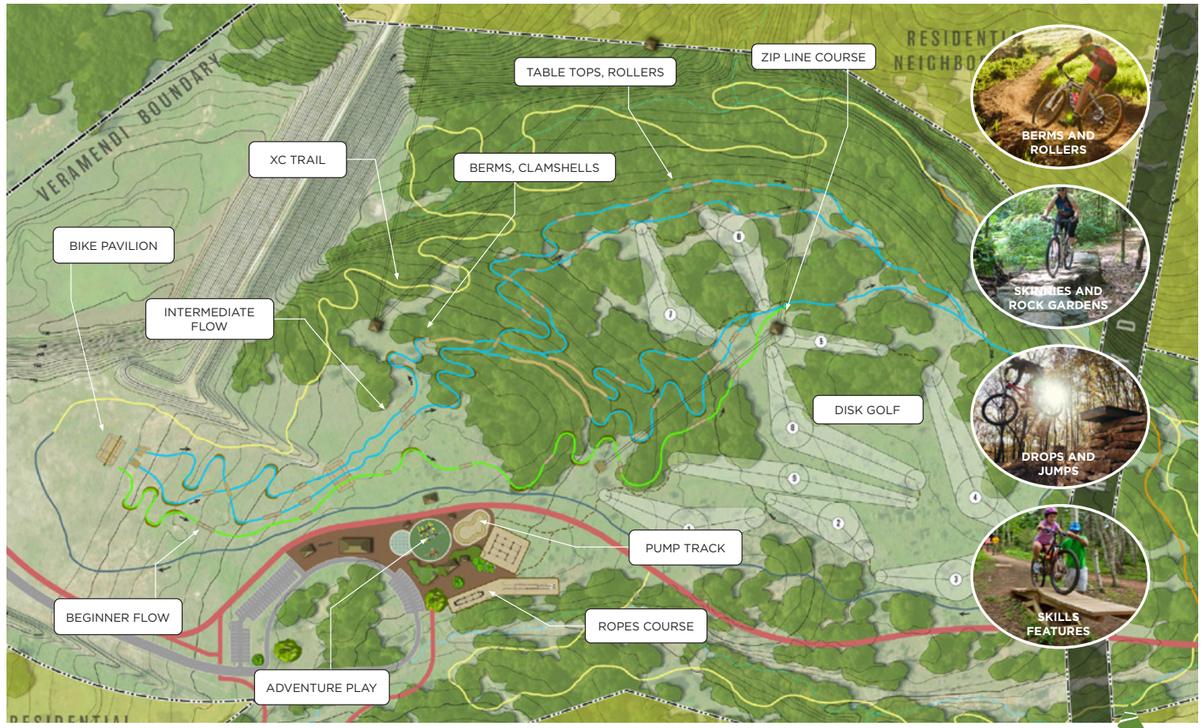












Mountain Bike & Adventure Zone

0' 200' 400'

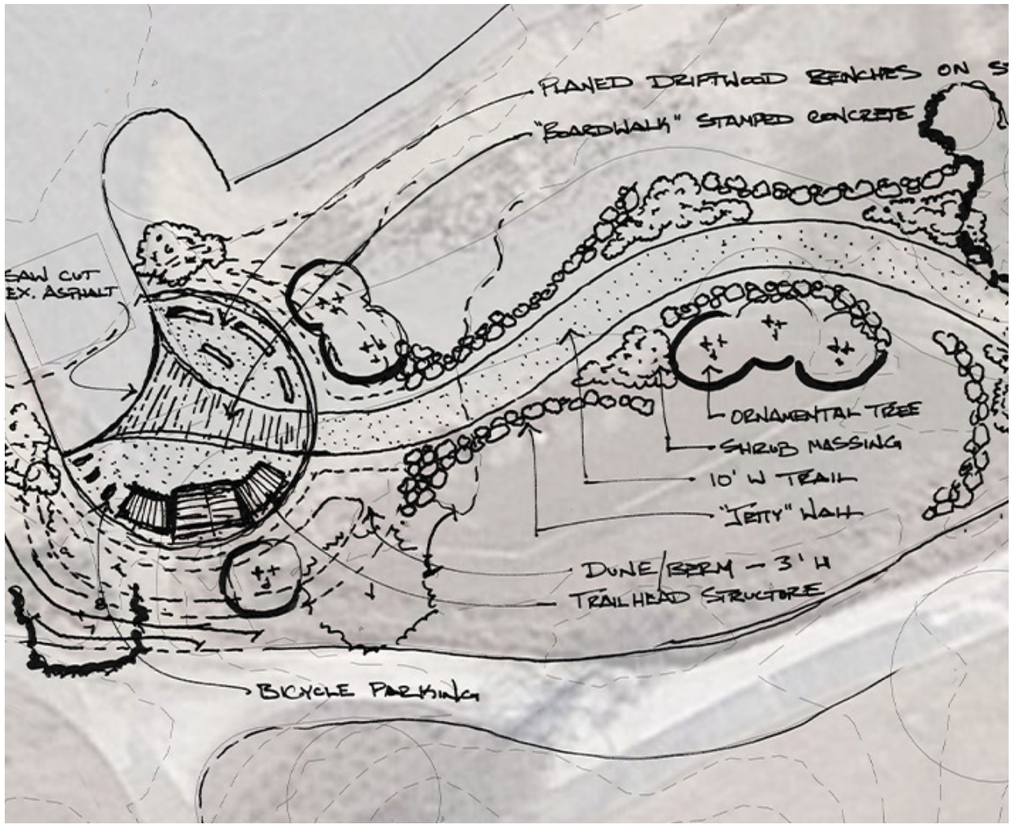
AVID TRAILS

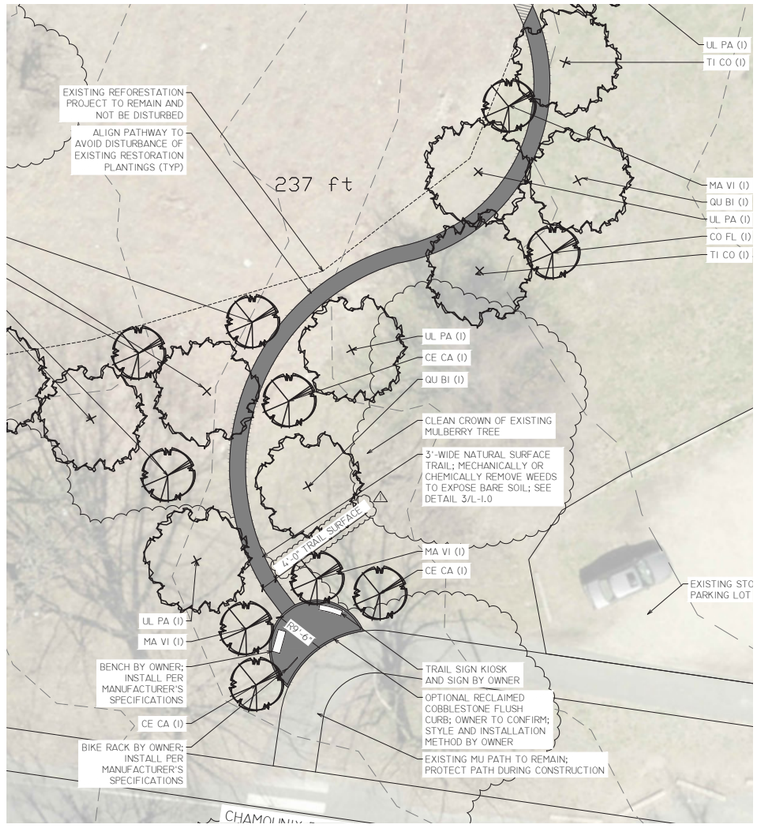
Veramendi Mountain Bike Park

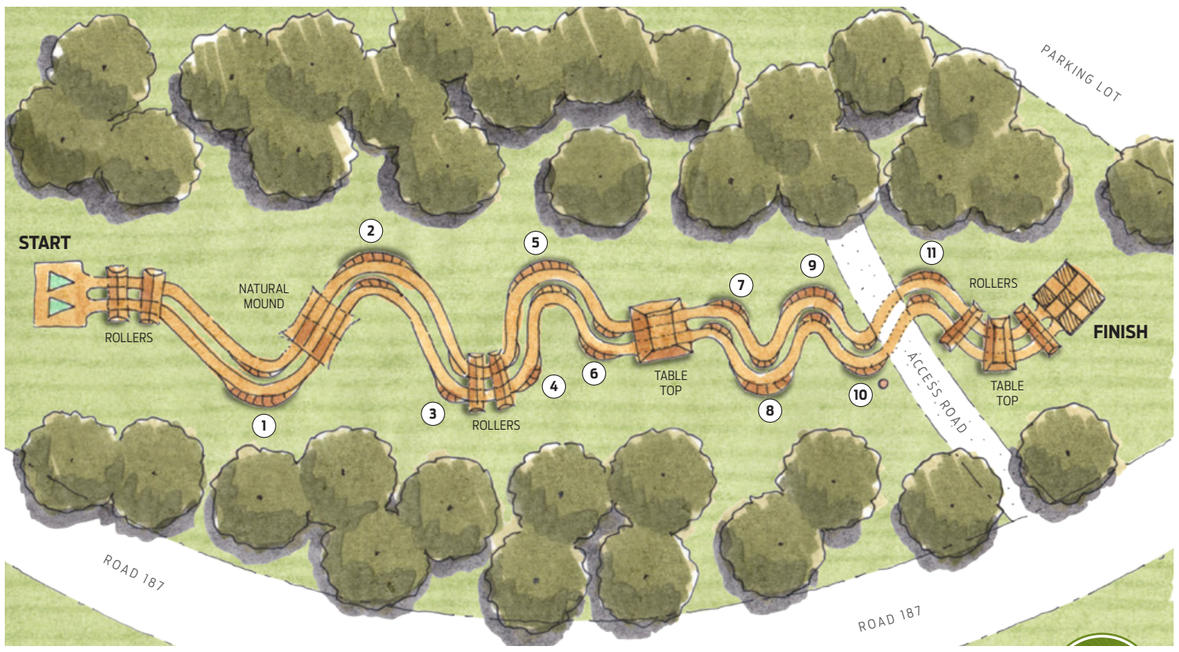
New Braunfels, TX

Avid Trails Conceptual Design
Project Size: 27 Acres
Completed: 2019

Veramendi is a large-scale residential community located near the Guadalupe River about an hour south of Austin TX. A significant watershed runs through the community, and it has been designated as public opens space. We were asked to create a trails master plan for the overall community, including conceptual plans for an Avid-designed Mountain Bike and Adventure Park located in the watershed. The varied topography allows for nearly five miles of bike optimized trails, including beginner, intermediate and advanced flow and XC options.









Avid Trails rough concept sketches allow collaboration in the early stages of design.
We also provide complete DD and CD sets, as well as 3D rendering and visualizations for presentations and public forums.

We appreciate this opportunity to submit our qualifications for design and build of the Mapleton Bike Park. We'd be honored to work with the Mapleton Parks and Recreation Department to create a fun, rewarding and sustainable bike park the community will be proud of.

We look forward to discussing the project with you, and answering any questions about our process. We are also able to provide references for all of our projects.

Thank you for your consideration.

AVID TRAILS

Justin Lax
justin@avidtrails.com | (908) 892-5370

Jay Hoeschler
jay@avidtrails.com | (310) 779-1271

We're proud members of Professional Trail Builders and the Urban Land Institute. See more of our work at AvidTrails.com.

PTBA Professional TrailBuilders

ULI Urban Land Institute



PROPOSAL FOR

Mapleton Trails Master Planning

MAPLETON, UTAH
JUNE 30, 2022

AVID TRAILS

AVID TRAILS INTRODUCTION

Thank you for the opportunity to present this proposal for Mapleton City Trails Master Planning.

Founded in Park City, Utah, Avid Trails is comprised of a unique team of professional trail designers, landscape architects and spatial analysts who are also trail builders, hikers, mountain bikers, road cyclists, skiers, and boarders who share a passion for providing access to great trails and outdoor recreation opportunities. Our trails planning philosophy is focused on the user experience, carefully considering not only the land and sensitive environmental resources, but also the demographics and recreation habits of anticipated visitors and users, as well as the long-term sustainability of the system.

With countless miles of cumulative trails planning and construction work throughout the United States, the Avid Trails team is experienced in all facets of trail planning, design, layout, and construction for sustainable multi-use, hiking, biking, walking, winter and equestrian trails. Avid Trails also designs and builds mountain bike flow trails, bike parks, asphalt pump tracks and outdoor fitness facilities, as well as complete signage and wayfinding systems, trailheads, and other trail-related amenities. We're also proud members of the Professional Trail Builders Association and the Urban Land Institute.

Our planning philosophy is focused on the user experience, while carefully considering the land and long-term trail sustainability.

While our services are employed in a range of environments and serve a wide variety of trail users, Avid Trails specializes in working with municipalities and community developers to create trail networks, trail-related amenities and park systems that promote outdoor recreation and fitness activities to enhance the quality of life for residents. Frequently, our planning process looks beyond the community boundaries and engages other surrounding communities, local business owners, public officials and trails advocacy groups to develop connectivity networks that facilitate and promote non-vehicular travel to local destinations.

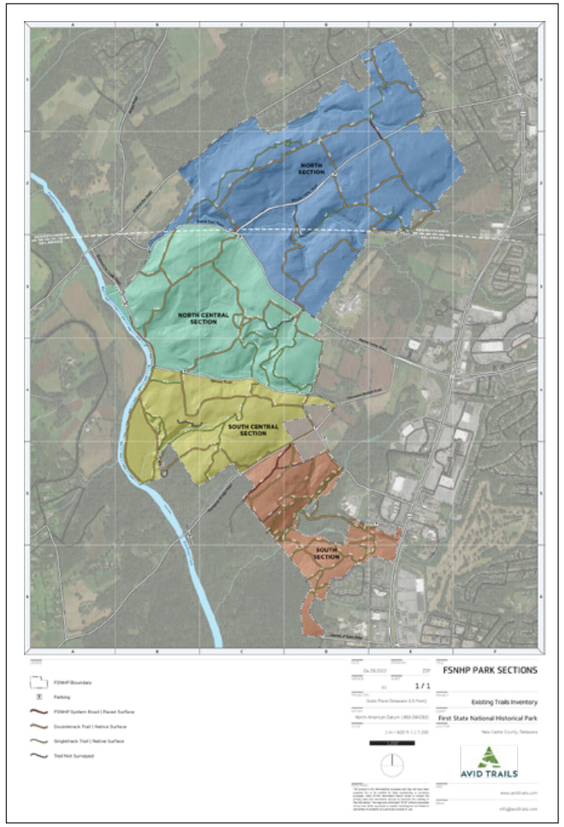
For these reasons, we believe Avid Trails is uniquely qualified to guide this master planning assignment for Mapleton. We are thrilled at the chance to participate in this planning endeavor, and look forward to demonstrating how Avid Trails can assist in successfully realizing the City's vision to guide future development of trails, paths and recreation within the rapidly growing region.

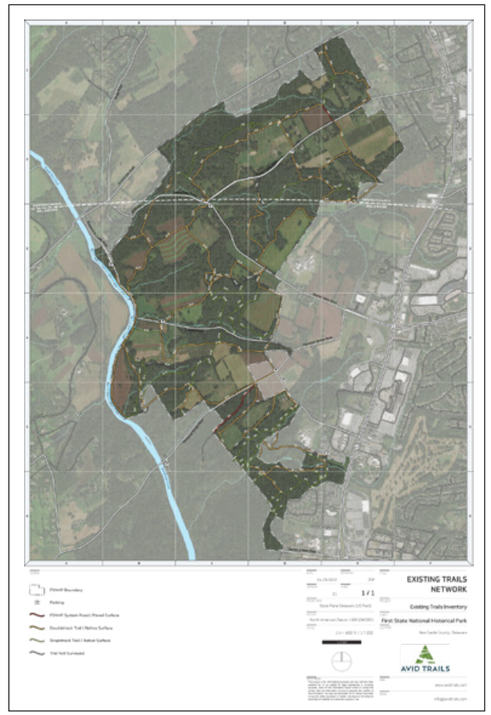
UNDERSTANDING OF NEED

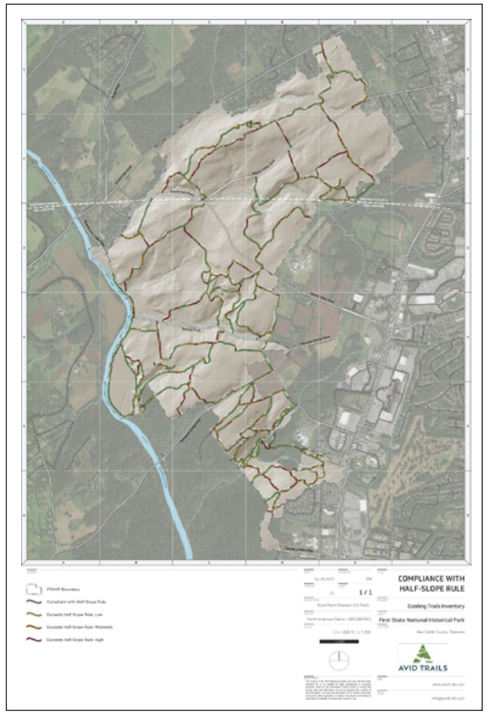
As trails planners who frequently work on collaborative planning efforts with private developers, trails advocacy groups and public entities, Avid Trails is distinctly qualified to partner with Mapleton to develop a comprehensive trails master plan. Our extensive experience in developing trail systems and trail-related amenities involving both public and private entities provides us with a solid foundation for navigating potentially complex social environments and a framework for crafting a plan that provides a vision and guidance for trail system implementation and maintenance that serves both current and future needs.

While Avid Trails works on complex trails projects all across America, we have a special affinity for Utah. We've completed trails planning projects for communities up and down the Wasatch range, including Lehi, Orem, Draper, Bountiful, Davis County, Heber City, Oakley, and of course, Park City where our company was founded.

Lastly, our decades of experience working with community real estate developers across America gives us special insight into balancing the public benefit needs of trail users with the fiscal and zoning objectives of municipalities and developers.









First State National Historic Park near Wilmington, Delaware is America's newest National Park. Avid Trails was tasked with inventory, analysis and recommendations for the extensive 25+ mile trail system across varied landuse zones and recreation opportunities.

PROJECT OVERVIEW

As your partner, Avid Trails will support and facilitate:

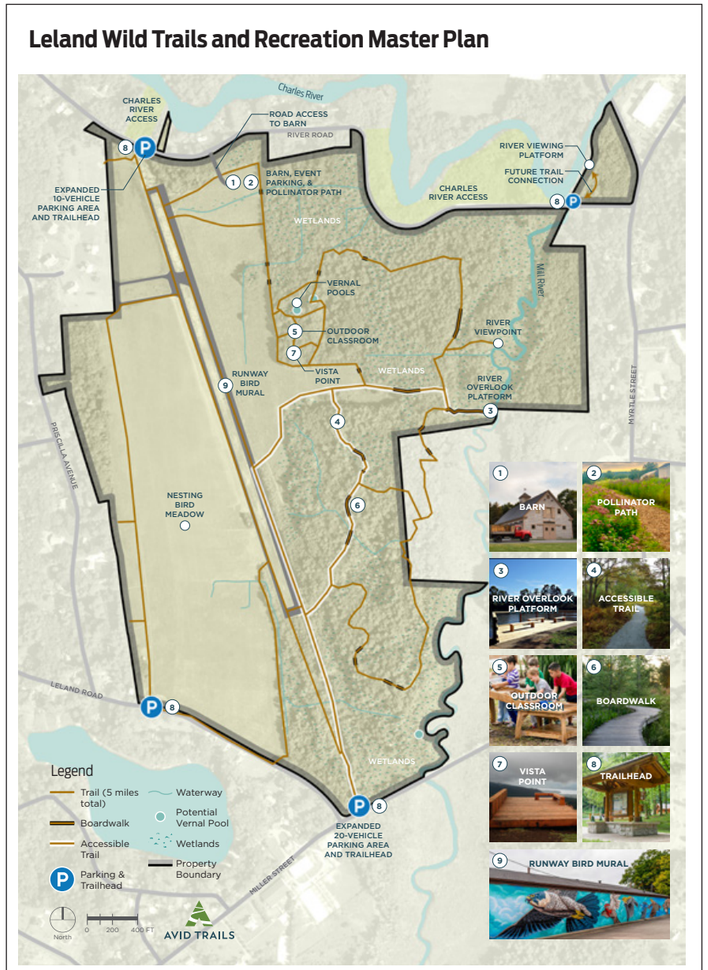
Data acquisition and inventory of existing conditions. Avid Trails will acquire all spatial data to support analysis and planning exercises pertinent to this effort, including existing and proposed trail alignments, existing and proposed transportation networks, environmental constraints and topographic conditions, as well as current and future zoning and land uses. In addition, Avid will review existing plans and documents relevant to the development of the Mapleton Trails Master Plan, such as the 2020 General Plan Update and any available private development plans that will impact the system.
Avid team members will then visit the community and surrounds to observe and inventory site conditions, identify opportunities and constraints for trails, fitness and recreation development, and explore adjacent and surrounding neighborhoods, business parks, educational institutions and public spaces to keenly understand connectivity opportunities and gaps within the City.

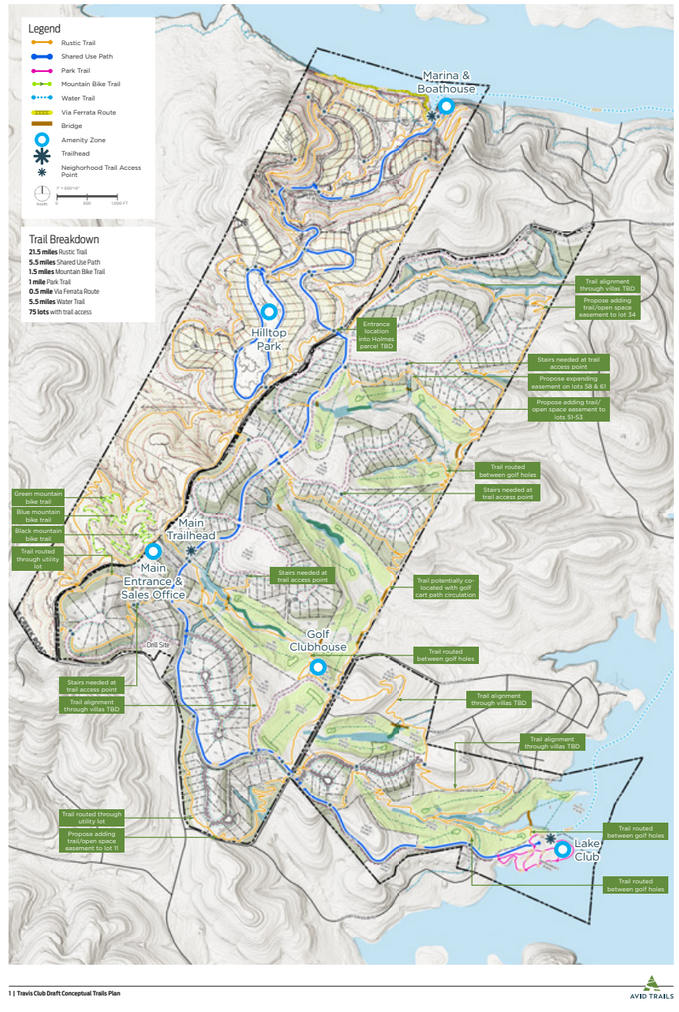
Mapleton Community Public Input (Optional Phase). The best trails plans are informed and influenced by the people who will use the trails the most. We will facilitate survey and public workshops to solicit community perceptions, wishes, and concerns about existing and future trails planning. This important public dialogue will allow us to be more thoughtful and collaborative in our planning process.

Development of proposed trail routes, trail usage types, and trailhead locations. Avid Trails will utilize the data collected from our site visit and desktop inventory to develop a trails system for Mapleton that offers the greatest connectivity and recreation opportunities for its residents. The proposed alignments will identify critical trail corridors to destinations and open spaces that facilitate non-vehicular means of travel, opportunities for stacked looped systems that support a variety of both casual and active recreational uses, as well as detail trail surface types and allowable uses.

Finally, Avid will develop guidelines for trail usage types, signage and wayfinding, and trail heads that promote consistency, sustainability, safety and equitable access for City residents and visitors as the trail system develops.

Development of the Mapleton Trails Master Plan. Avid Trails will develop both draft and final master plan documents for delivery to Mapleton City and Staff in both digital and hard-copy formats. The master plan will summarize the discussions and findings resulting from the input, inventory and study process; outline the planning and review efforts employed to develop the proposed trails plan; discuss issues concerning trail experience, usage and etiquette, and provide guidelines for trail development and maintenance, environmental protection, health and safety of trail users. The final proposed trails master plan produced by this effort will be relayed in appropriate map graphics and geo-spatial files.





Avid Trails planning services include detailed site assessments, conceptual recreational planning and illustrative mapping.

SCOPE OF SERVICES

Phase 1: Site and Landscape Assessment

Expected Time frame: 4 weeks

Spatial Data Collection: The Avid Trails team will review pertinent spatial data and imagery provided by the client and downloaded from other publicly available databases, and converted to the GIS environment. Data should include:

- City boundaries, current and future land uses
- Existing and proposed ROWs, transportation routes, utility easements
- Point locations of public institutions, facilities, recreation areas
- Existing and proposed trails and path alignments
- Tree surveys
- Topographic contours; LIDAR data
- Environmental constraints and topographic conditions
- Delineations for watersheds, floodplain, jurisdictional waters and buffers

Literature Review & Background Research: Our team will review other relevant planning efforts such as the Mapleton General Plan, existing and future regional trail planning documents, etc.

Base Map Development: Our team will create a georeferenced existing conditions base map for use during the site visit and to serve as the base for future conceptual design.

Deliverables: Base maps and summary prepared for field study.

Phase 2: Project Kick-Off & Site Visit

Expected Time frame: 4 weeks

Project Kick-Off Meeting: Kick-off meeting with the Avid Trails team, client, and necessary stakeholders. Meeting format will begin via scheduled video calls, as well as conducted in-person as needed while the Avid Trails team is on-site.













Avid Trails projects incorporate a wide variety of user experiences and surface types.

- Thorough and detailed site visit by Avid Trails team

Site Visit: We anticipate a two to three-day site visit by Avid Trails personnel to study the existing and potential Mapleton trails planning areas. This study will include:

- Meetings with City Staff and stakeholders discussing goals, objectives, conditions
- Review and inventory of existing Mapleton trails and paths, trailhead conditions
- Site study of City trails planning areas
- Review of existing City signage and wayfinding

Site Visit Report: Our team will compile the takeaways from the site visit in a report to Mapleton Staff with an assessment of the site's opportunities and constraints.

Deliverables: Meeting notes, site visit report.

Phase 3: Trails Master Plan Development

Expected Time frame: 8 - 12 weeks

Trail Planning: Following the public input survey and event, the Avid Trails team will develop the conceptual trails master plan for review and discussion with the Mapleton team. This planning exercise will be guided by review and analysis of existing trail alignments, desired destinations, environmental constraints, future surrounding land uses and circulation gaps. We will identify critical connection corridors to facilitate efficient non-vehicular means of transportation and recreation throughout the City. In addition, we will identify potential trailhead locations, alignments suitable for stacked-loop trails, park systems or other recreational and/or fitness features.

The trail alignments and trail heads will be located in harmony with the surrounding landscape in a manner that minimizes impacts to environmental resources, enhances recreational opportunities and increases access to open spaces from current and future residential and commercial development zones. Proposed trail alignments will be identified by surface type and allowable uses. Recommended trailhead locations will also be sited at appropriate locations throughout the plan.

In summary, the Trails Master Plan process will include:

- Study of trail user demographics, preferences, desired trail types
- Recommend trails hierarchy and typology
- Establishment of key trail alignments and types
- Integration and coordination of user types, including walking, hiking, cycling, mountain bike, equestrian, adaptive/universal, etc.
- Considerations for trail alignments linking neighborhoods and important destinations: schools, parks, shopping areas, etc.
- Recommendations for multi-use and single-use trail conditions
- Proposed trailhead locations; hierarchy of trailhead types and sizes
- Trail surface recommendations and specs
- Inclusion of regional trail connections
- High quality map exhibits demonstrating trails master plan
- Conceptual drawings and precedent imagery to demonstrate concepts

Trailhead and Wayfinding Guidelines: As part of the Mapleton Trails Master Plan, our team will develop schematic design for recommended trailhead programming, wayfinding and trail signage, and general recommendations for standardized trail furnishings.

This work will include:

- Trailhead kiosk and experience conceptual design
- Trail signage and wayfinding conceptual design
- Sign type hierarchy
- Trail head furniture conceptual recommendations (benches, bike racks, lighting, etc.)
- Conceptual drawings and precedent imagery to demonstrate concepts

Presentation and Deliverables of Mapleton Trails Master Plan:

- Presentation of Trails Master Plan to City, Staff and stakeholders, delivered in PDF format
- Up to two rounds of revisions
- Proposed trail alignments delivered in SHP, KMZ and DWG formats
- Trail OPCs and budgets, based on City feedback of

desired improvements
- Implementation timeline and phasing plan
- Exploration of funding options for trails and amenities

Project Management: Meetings & Correspondence

Our project management philosophy is focused on frequent communication with all appropriate stakeholders. Our typical communications process will include weekly project updates via email, and bi-weekly team phone calls to review progress.

Regular meetings with City Staff: The team anticipates meetings with the Mapleton Team at key project milestones.

Trails Master Plan Presentation: This proposal includes time for the Avid Trails team to present findings and trails master plan to project City, Staff, and key community stakeholders up to three separate presentations.

Optional Phase: Mapleton Community Public Input

Expected Time frame: 4 - 6 weeks

We will create content for and facilitate two approaches to public input for the Mapleton Trails Master Plan and future Mapleton Bike Park. This public input phase would take place between Phases 2 and 3 described above.

Online survey: We will write and design questionaire content for public online survey solicitng perceptions and wishes for existing and future trails planning. Online programming to be provided by City website team.

Public Open House /Workshop: We will write and design content for two public forum events. The first event will be to solicit intial input (perceptions of existing trails, wishes and concerns for future planning). The second event will be to present planning concepts for public comment, which will take place after Phase 4 planning. Workshop facilities to be provided by City.

Deliverables: Report summarizing public comments and findings.

PROJECT FEES

Phase 1: Site and Landscape Assessment

Existing data collection	
Existing data analysis	
Project setup	
Base map creation	
Input meetings with City	
Subtotal:	$7,600

Phase 2: Project Kick-Off & Site Visit

Field study	
Field data collection	
Field data analysis	
Stakeholder meetings	
Subtotal:	$8,900

Phase 3: Conceptual Master Plan Development

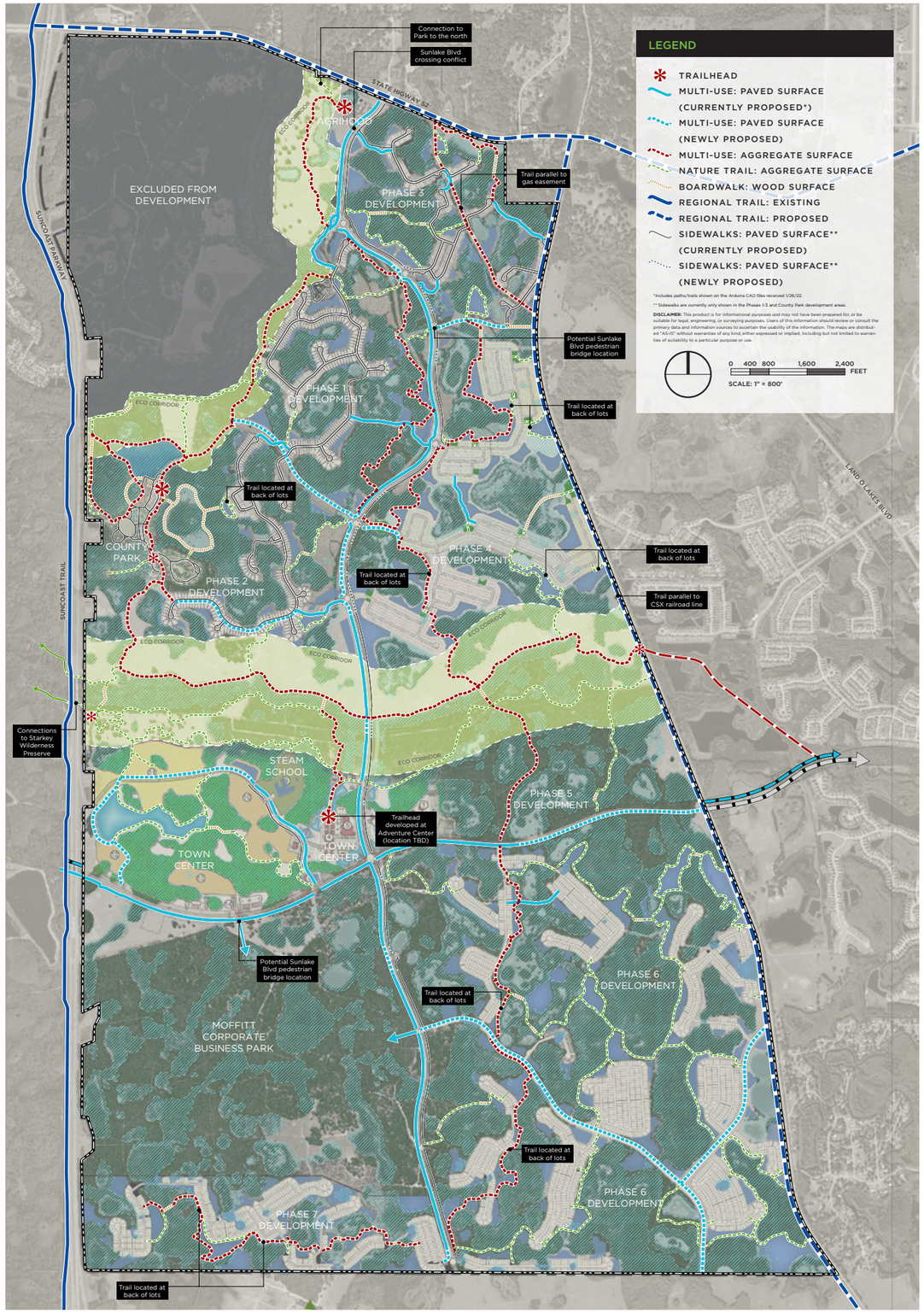
Primary master plan design and mapping	
Written master plan document	
Trailhead design standards	
Signage and wayfinding standards	
Budgeting and phasing	
Trails Master Plan presentation preparation	
Presentations to City and Staff	
Trails Master Plan refinements	
Subtotal:	$20,200
Total Project:	$36,700

Optional Phase: Mapleton Community Public Input

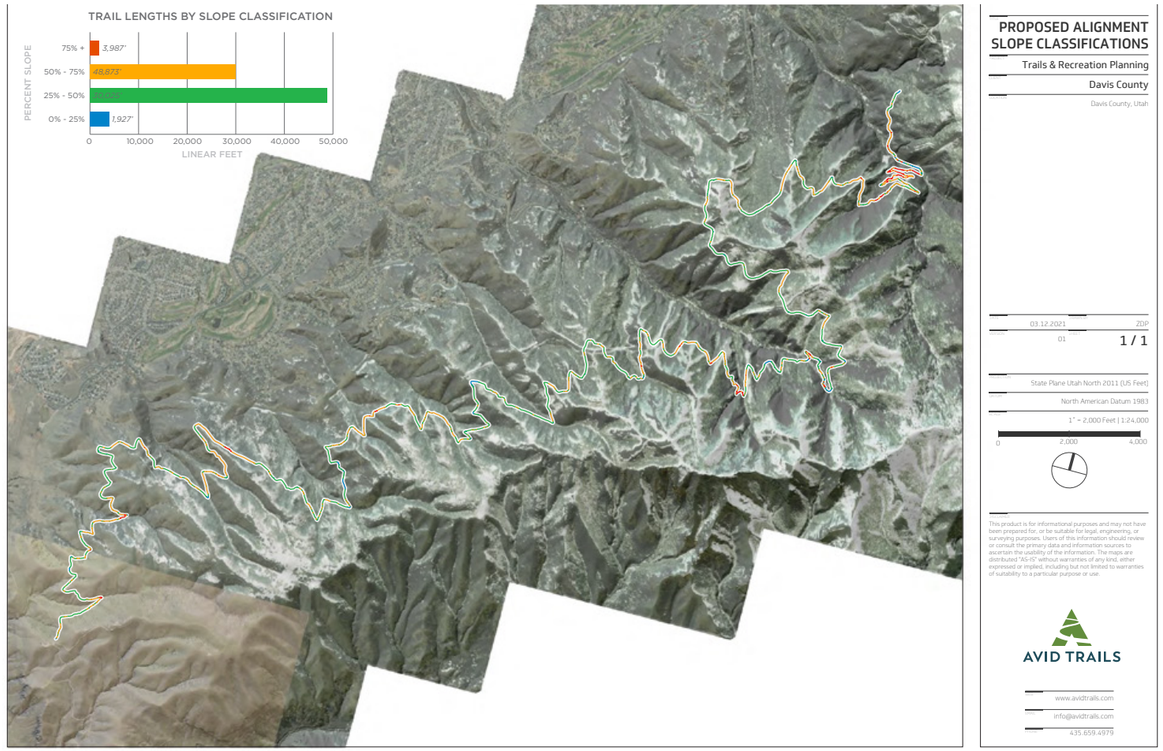
Design and Content for Online Survey	
Public Workshop / Open House Event #1	
Public Workshop/Open House Event #2	
Optional Public Input Scope:	$11,500

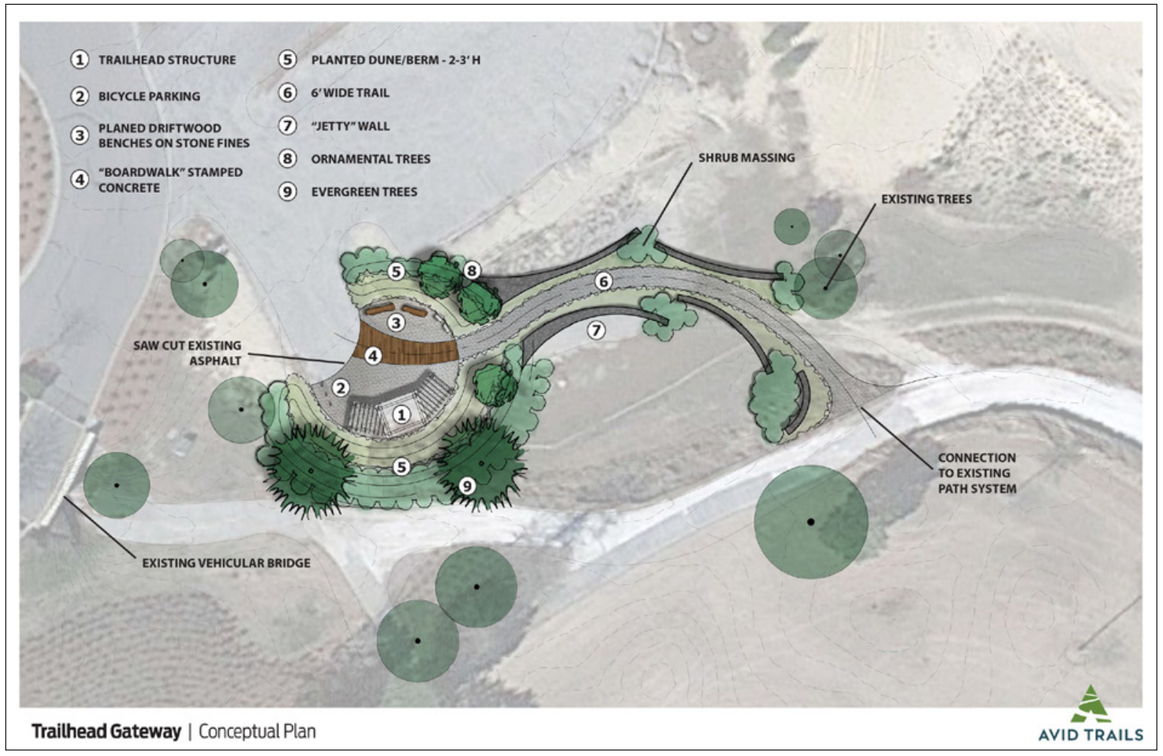
We request a deposit of 20% to begin work, with monthly progress billing based on percentage of project completed.

Avid Trails works in a GIS platform. All client-related CAD data will be converted to spatial layers for use in GIS. This proposal includes up to 4 hours of conversion time. Any additional time for data management, preparation and conversion will be billed at $200 per hour with prior approval by client.



Avid Trails master planning for Angeline, a 5,000 acre new community in Pasco County, Florida.





Avid Trails' capabilities include robust GIS and spatial analysis, as well as complete trails recreation planning and design.

PRIMARY AVID TRAILS TEAM FOR MAPLETON TRAILS MASTER PLANNING

The following bios feature our core team for this assignment. Each member is an experienced trails planning professional, and will devote the appropriate time needed to complete this planning scope.



Justin Lax
Partner, President

Justin Lax is a founding partner and the President of Avid Trails. Justin founded Avid Trails with a group of partners who share his vision for bringing better trail systems, bike facilities and outdoor recreation opportunities to communities across the country. His approach centers around creating thoughtful, connected and interesting trail systems and bike facilities that help get people spending time outdoors, growing their passion for hiking and biking and progressing their abilities.

Justin is actively involved in all aspects of the business including advocacy, planning and design, community engagement, construction operations and implementation, project management. When he's not in the office coordinating our various crews and projects, Justin can be found in the field doing trail assessments, design, corridor flagging, operating mini ex's, trail dozers, skid steers, Rogue hoes, flat shovels and whatever else it takes to get a job done.

Justin's robust experience in trail construction results in a deep understanding of trail constructibility and feasibility. This helps to inform all planning and design work completed by the firm. As a lifelong two wheel enthusiast and avid rider, he understands how to design and build things that work for the target audience.

Justin volunteers actively at his local YMCA where he focuses on initiatives that help kids and families reconnect with the outdoors. He is also a past Board Member of the Professional Trail Builders Association and a member of the Urban Land Institute where he works to increase access to trails and outdoor rec in communities throughout the country.

Justin is based in Stockton, NJ with his wife Amanda and new daughter Willow, where they frequent local trails on two feet and two wheels.



Jay Hoeschler
Partner, Design Director

Jay Hoeschler is a founding partner of Avid Trails. He heads up a team of environmental, GIS, landscape and graphic designers who thoughtfully consider every aspect of the trail experience. His design expertise includes trail types and alignments, signage and wayfinding systems, trailhead kiosks, bridges and water crossings, interpretive displays and graphics, fitness stations, and adventure obstacles.

Jay has a particular affinity for designing and building bike-optimized trails and features, including flow trails, downhill, XC, skills obstacles, jump lines and pump tracks.

In an attempt to practice what he preaches, he is a dedicated mountain biker, road cyclist, swimmer, surfer, hiker, and competitive triathlete. He does all this so he can enjoy craft beer with (mostly) zero guilt.

Jay serves as Planning Commissioner for his home town of El Segundo, CA. He is a full member of the Urban Land Institute, and serves on its Residential Neighborhood Development Council. He is a member of the Professional TrailBuilders Association (PTBA), as well as the International Mountain Bike Association (IMBA). He also serves on the board for Tour de Pier, an annual charity spin bike event that raises millions each year to fight cancer.



Lindsay Kageyama
Landscape Designer

Lindsay Kageyama is a landscape designer and comes to Avid Trails with extensive experience in recreation planning and design. Her professional experience ranges from regional-scale analysis and planning for public agencies to thoughtful site design including trails, recreation amenities, streetscapes, and residences. Lindsay's professional work has been recognized by the national American Society of Landscape Architects, the Urban Land Institute, and regional and state chapters of the American Planning Association.

Lindsay graduated summa cum laude with a Bachelor of Landscape Architecture from Cal Poly San Luis Obispo and lives in Lake Tahoe, California. When not at work, she enjoys exploring the Sierra Nevada mountains whether on a mountain bike, on a hike, or on a pair of skis. Lindsay is a member of the American Society of Landscape Architects.



Troy Duffin
Technical Director

Troy Duffin is a bona fide trail advocate, planner, builder and user, having built over 600 miles of trail in his career. For nearly twenty-five years, Troy has been planning and constructing the most unique trail systems in the United States. An avid hiker and mountain biker himself, Troy has served as a citizen activist and advisory board member of the Truckee Trails Foundation (CA), as Executive Director of the Mountain Trails Foundation (UT), President of the rapidly growing Professional Trail Builders Association and on the board (and as board Chair) of the nation's preeminent trails organization, American Trails. His numerous accolades include the International Mountain Bicycling Association's (IMBA) Trail Hero Award. A land use attorney, Troy understands the intricacies of trail permitting, including land use entitlements, easements and other grants of land, from donations to licenses to fee transfers. Beyond the permitting phase, Troy has extensive experience with funding for trails, from land acquisition to construction and maintenance, through a variety of sources, including public and private grants, tax assessments and bond elections, fee-in-lieu agreements with developers, and non-profit fundraising, among others.

Troy has negotiated easements for subsurface rights beneath trails, including complex communication right of way agreements, providing for perpetual funding for trail maintenance. He's also been involved in virtually all aspects of public trail acquisition and development, having been instrumental in the creation and management of a trails special service district in Summit County, Utah. The SSD creation and implementation included public meetings and community scoping, development of needs assessments and budgets, master planning, and public meetings. Troy has testified on trail matters at dozens of public meetings, before city and county planning commissions and councils, as well as at the state legislature on trail-related bills.

Troy's work in Park City, Utah has led to a community widely regarded as one of the most trail-friendly in the nation. The greater Park City area encompasses only about 100 square miles, and has a population of just 25,000 or so, yet boasts about 400 miles of public trails. Troy's involvement in Park City began with the non-profit Mountain Trails Foundation in 1993, when the town could claim only about 15 miles of public trails, and land was quickly being gobbled up for development. His work over the next two decades there, with Mountain Trails Foundation, the Snyderville Basin Special Recreation District and his previous planning, design and construction company, Alpine Trails, Inc., laid the groundwork for a thriving and ever-expanding trail community which is now considered a model for other communities around the nation.















Avid Trails designs and produces complete trail signage, wayfinding, and interpretive systems.

SELECTED LIST OF AVID TRAILS PLANNING, DESIGN+BUILD

Armstrong Trail, Park City, Utah
Planning, design and construction of multi-use backcountry trail connecting city and Silver Star area to the Mid-Mountain trail. 4.3 miles.

Avenues Trail, Park City, Utah
Field design and construction of multi-use singletrack trails within subdivision's open space. Approximately 2 miles.

Bexley, Land O' Lakes, Florida
Planning, design and construction observation of multi-use trails. Approximately 10 miles.

Blackhawk Ranch, Park City, Utah
Planning and construction of multi-use trail system through open space areas within hillside development. Approximately 5 miles.

Bonneville Shoreline Trail, Davis County, Utah
Design and construction of 18 mile BST segment for mountain bikes and multi-use.

The Canyons Resort, Park City, Utah
Design and Construction of several non-motorized trails, connecting the system to other public trails. Approximately 7 miles.

The Colony Development, Park City, Utah
Construction of several private ski trails for various lots within the development.

Deer Valley Resort, Park City, Utah
Design and construction of three soft-surface trails in the resort connecting existing trails, providing additional lift-accessible alternatives, and differing experiences. About 3.5 miles.

Draper City Trails, Draper, Utah
Construction of Achtung Baby, singletrack mountain bike flow trail, approx 3 miles.

Flow Trail, Oskar Blues Reeb Ranch, Hendersonville, North Carolina
Design and construction of advanced mountain bike flow trail for Oskar Blues Brewery Bike Park.

Flying Dog "IMBA Epic" Trail, Park City, Utah
Field design and construction of extensive public trail network through private development. Approximately 8 miles.

Ghost Falls Trail, Draper City, Utah
Field design/layout and construction of multi-use natural surface trail in City's Corner Canyon recreational area. Work included construction and installation of four bridges. Approximately 1.25 miles.

Glenwild, Park City, Utah
Design and construction of multi-use trail system within private community. Approximately 3.5 miles.

High Bridge Pump Track, High Bridge, NJ
Design and construction of family bike park.

Lehi MU Trails, Lehi, Utah
Design and construction of multi-use flow trails and climbing loops. Approximately 4 miles.

Oakley Bike Park, Oakley, Utah
Design and construction of mountain bike park, including flow trails and climbing loops. Approximately 3 miles.

Orem Bike Park, Orem, Utah
Design and construction of mountain bike beginner skills trail including features and obstacles.

Park City Mountain Resort, Park City, Utah
Design and construction of "Mojave" trail within resort. Approximately 2 miles.

Pinecone Ridge Connector Trail, Park City, Utah
Design and construction of multi-use backcountry trail connecting Mid-Mountain Trail to the Wasatch Crest Trail, and continuing the Armstrong Trail. Approx. 4 miles. Designated an IMBA "Epic" trail.

Red Ledges Trails, Heber City, Utah
Design and construction of community multi-use trails for upscale residential community. Approx 3 miles.

REEB Ranch, Hendersonville, North Carolina
Planning, design and construction of mountain bike flow trails within bike park.

Snowbird Resort, Snowbird, Utah
Design and construction of mountain bike trail for Specialized Bicycle Company conference and testing. Design and construction of multi-use natural surface trail, along with multiple drainage crossings, through rocky and steep terrain. Approximately 7 miles.

Solitude Mountain Resort, Utah
Field design and construction of "Queen Bess" mountain bike trail within resort. Approximately 4 miles.

Suncrest Development, Draper, Utah
Creation of trails master plan, plus design and construction of natural surface trails in and around major development. Approximately 5 miles.

Summit Park, Park City, Utah
Planning, field design, and construction of over four miles of multi-use natural surface trails in varying terrain and soils, including areas of very steep and rocky terrain.

Talisker, Deer Valley, Utah
Field design and construction of multi-use trail within the Tuhaye Development near Kamas, Utah. Approximately 3 miles.

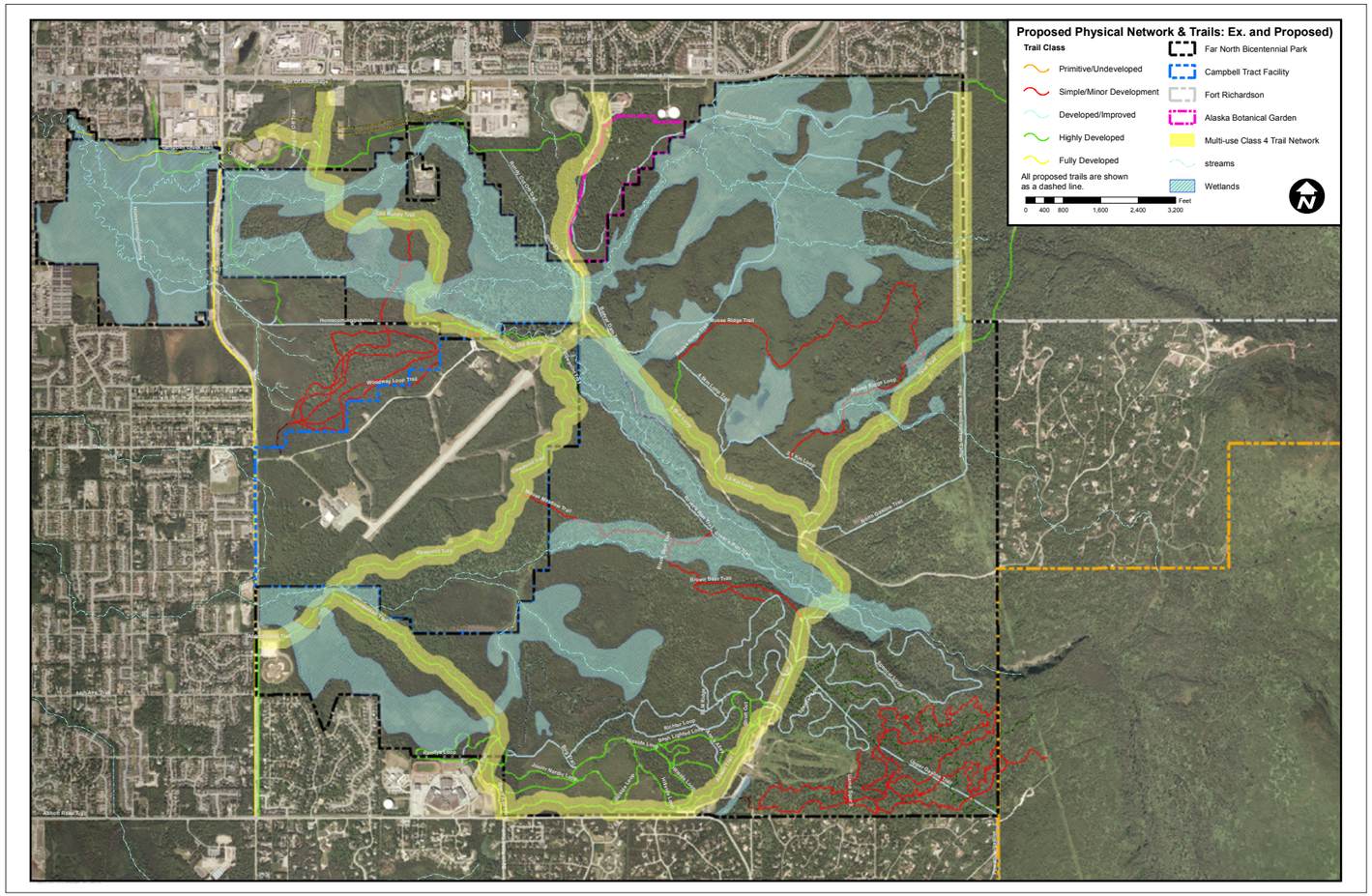
Victory, Buckeye, Arizona
Construction of multi-use trail system within private community. Approximately 3.5 miles.

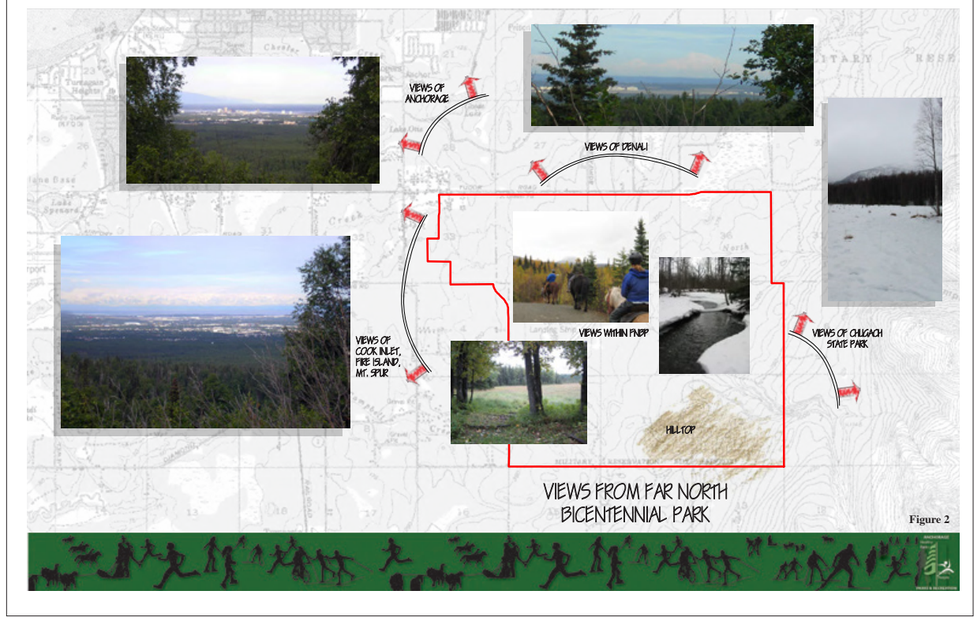
Victory Ranch Club, Francis, Utah
Design and construction of various multi-use and mountain bike flow trails within private development. Approx. 7 miles.

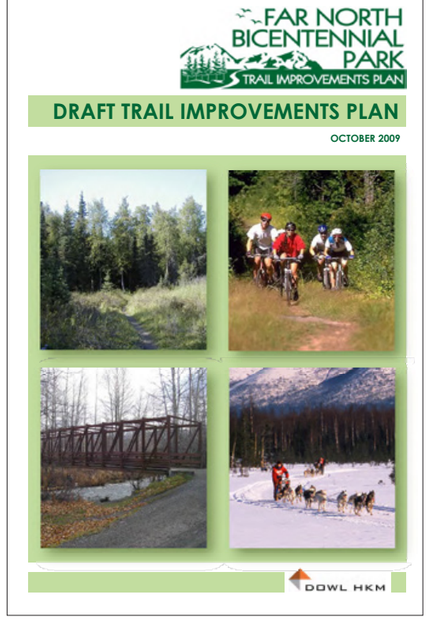
Westlake Bike Park, West Palm Beach, Florida
Design and construction of family bike park for residential community. Park includes beginner and intermediate pump tracks, bike skills loop, and progressive jump lines.

Wendell Falls, Raleigh, North Carolina
Design and construction of cross country and flow trails for mountain bikes and multi-use. About 5 miles.

Wolf Ranch, Georgetown TX
Planning , design and construction of multi-use trail system within private community. Approximately 3.5 miles.







Anchorage, Alaska
2008 Trails Master Plan

Prepared by: Avid Trails team member Troy Duffin in conjunction with DOWL Engineering.

Contact:
Holly Spoth-Torres
Municipality of Anchorage (907) 343-4585

Kevin Doniere, DOWL
(907) 562-2000

In 2007 The Municipality of Anchorage, Alaska undertook a comprehensive Trail Plan Update for its largest park, known as Far North Bicentennial Park. The park sees over a million visitors a year, including everything from cross country skiers, hikers, runners, bicyclists and equestrians, and even skijourers and dog sled teams.

To accomplish the plan, the Municipality hired DOWL Engineers, and subcontracted Avid's Troy Duffin as its soft surface trail and urban interface expert. In addition to an inventory of existing trails and design of new trails, the comprehensive master plan included new construction, maintenance, design and signage standards and guidelines.

While involved with Far North, the Municipality also hired Troy to consult on the 48th Avenue Road and Trail expansion project, which included a 200' wide multi-use trail underpass for both humans and wildlife, as well as other off-grade crossings, and multiple trail/road interface areas.

Greater Park City Area Trails Master Plan

Public lands + various land owners
Park City, UT

Prepared by Avid Trails team member Troy Duffin.

Our involvement included all aspects of advocacy, landowner relations, permitting, drafting of master plans and key ordinances, fundraising, and public outreach. Additionally, our work included regional mapping of all trails, which also included the function of developing a region-wide trails master plan, with forward-thinking alignments to connect proposed developments, existing neighborhoods, schools, shopping areas, and recreational trailheads. These annual efforts allowed us to "stay ahead" of rapid development, such that today, the area is so well connected by trails that few residents or visitors need to use roads to connect from town to the backcountry, or to services within the town. Our team was instrumental in creating funding sources for trail construction and ongoing maintenance, via a range of public and private sources. This includes grant request writing, establishing development agreements with landowners, private donations, and typical non-profit organization-based fundraising.

Summit County Area Trails Master Plan

Public lands + various land owners
Summit County, UT

Prepared by Avid Trails team member Troy Duffin.

For Summit County, we drafted the area's first trails master plan, setting up the trails department, budgeting and operations planning, and beginning the construction and maintenance of its trail system. Our efforts also included public hearings and input sessions, creation of a needs assessment, public polls, documentation and justification for tax assessments, bond election preparation, budgeting, implementation timelines, master plan mapping, and related tasks. Finally, we initiated innovative approaches to the master planning process that began with the identification of key connection points, rather than detailed alignments, to assure ultimate functionality of the system, while simultaneously assuring landowner and stakeholder cooperation with the process.









Our mission is simple: Get people outside to have fun.

Thank you for this opportunity to submit our proposal to create a thoughtful and enjoyable Trails Master Plan for Mapleton City. We know we can create a truly remarkable plan for your community. We look forward to the dialogue.

AVID TRAILS

Justin Lax
justin@avidtrails.com | (908) 892-5370

Jay Hoeschler
jay@avidtrails.com | (310) 779-1271

We're proud members of Professional Trail Builders and the Urban Land Institute. See more of our work at AvidTrails.com.

PTBA Professional TrailBuilders

ULI Urban Land Institute