Seven County Infrastructure Coalition
Daggett and Uintah Counties
Trails Master Plan

2018
January 4, 2018

Mike McKee
Coalition Executive Director
Seven County Infrastructure Coalition
5995 South Redwood Road
Salt Lake City, UT 84123
801.261.3407
mmckee@7county.utah.gov

Dear Mr. McKee and Selection Committee Members:

Thank you for this opportunity to propose on the Trails master plan. Daggett and Uintah Counties have abundant natural resources that attract recreationalists from all over the state. This master plan is a great opportunity to not only document existing and future trails, but to provide a marketing and public relations roadmap for further branding the region as the year-round destination for recreationalists. To this end, our project manager, Rob Sunderlage, will focus on team leadership, collaboration, and properly managing the quality, schedule, and budget to fulfill your vision on time and on budget.

Horrocks has unmatched teams in GIS, Right-of-Way, and Public Involvement to efficiently gather data and information, compile it into GIS models, and convey it in its simplest form for the public, and technical forms for each jurisdiction. We have designed trails and master plans for various communities and have a strong commitment to developing well-designed systems. As avid trail users ourselves, we understand the importance of well-designed and well-planned trails.

Please find enclosed our Proposal for Services. We welcome the opportunity to discuss any component of this proposal as there are many opportunities with each discipline to provide you with the tools you need to make decisions that will be a significant benefit to the community.

Project manager, Rob Sunderlage, PE, will be the key contact for this project and is available for any questions regarding this proposal. He can be reached at 801.319.7388. Thank you again and we look forward to any further discussion.

Sincerely,

HORROCKS ENGINEERS

Rob Sunderland, PE
Project Manager
Office: 801.763.5100; Mobile: 801.319.7388
Email: robs@horrocks.com
We have assembled a team of experts based on the required skills and experience needed to meet project specifications. Our team is led by our project manager, Rob Sunderlage, PE. Rob understands the vision of Seven County Infrastructure Coalitions’ current and future goals for the trail system in Daggett and Uintah counties.

Rob will provide the appropriate level of leadership for this project as he has done so on similar projects in the past. He will be supported by a team of qualified professionals, who, like Rob are industry leaders with reputations for delivering projects on-budget and on-time. Our goal is to meet the Coalition’s desires through staffing, responsiveness, communications, and appropriate costs. The Horrocks team has a proven ability to respond quickly, to take action appropriately, and to be efficient and cost-effective.

Horrocks is teamed with Sid Ostergaard Senta Beyer, who have extensive experience in trail master planning, and Bryan Markkanen for his funding experience. Combined efforts mean strength, innovation, and experience that no other team can match for this project. The following key individuals will guide our team through the design and construction process:

**Brent Ventura, PE – Principal in Charge:** Brent is a Principal of Horrocks Engineers with more than 20 years of experience. He has a master’s in Engineering Management, and is a licensed Professional Engineer in the State of Utah. Brent is a Principal at Horrocks Engineers with responsible charge for municipal and water resource projects. His experience includes master planning, design, and construction of many municipal infrastructure projects including roadways, trails, water resources and sewer. Brent has spent a significant portion of his career designing to AASHTO standards for roadways and trails. In addition to infrastructure design and construction, he has overseen master plans, capital facilities plans, and impact fee analyses (including parks and recreations facilities) for communities such as Bluffdale, Eagle Mountain, Payson, Saratoga Springs, Clearfield, Grand County, Moab, Enoch, Herriman, and Salem. He has spent significant time serving as the Engineer of Record for various Utah local governments.
Rob Sunderlage, PE – Project Manager:
Rob has 20 years of experience working with municipal agencies, developers, and architects to complete a broad range of infrastructure, and site development projects as well as transportation related studies and implementation of multi-modal improvement designs. His expertise is in public and private civil engineering, site development planning and agency processing, water resource engineering, large development concept planning, city storm water and domestic water master planning and hydraulic/hydrologic system design. Rob is accustomed to working in a strong team environment and coordinating his work with other team members and governing agencies as design concepts conform to the overall project vision. He has a passion for innovative solutions to our growing built environments.

Chuck Richins, PE – Client Manager:
Chuck is a design engineer with 19 years of experience in municipal design, water resources design, residential developments, storm drainage analysis and design, sanitary sewer system design, roadway design, master planning, and project management. He is proficient with water, sewer, hydraulics, and hydrology design and modeling. Chuck has experience with GIS mapping for utility and roadway master plans. He also has experience in utility design, working with various utility companies and UDOT on the Mountain View Corridor Project. One of Chuck’s recent assignments was the Design Engineer and Project Engineer/Manager for the Duchesne City Road Improvement Project, which was a citywide street reconstruction project that was completed in 2016. Chuck has been involved with developing and reviewing several engineering design and master plan reports. Chuck has been working for various clients in the Uintah Basin for approximately seven years now, and during that time has developed working relationships with many local individuals and entities.

Ryan Pitts, PLA – Environmental:
Ryan is a Licensed Landscape Architect in Utah and Idaho with a masters of Landscape Architecture and a Bachelor of Science degree in Horticulture. He is a Principal of Horrocks with 11 years of experience working with federal, state, and local agencies as a Landscape Architect and NEPA specialist, working primarily with wetlands and threatened and endangered species. He has served as the technical lead scientist in conducting wetland delineations, threatened and endangered species plant surveys, Section 404 permitting activities, and wetland functional assessments. Since joining Horrocks Engineers Ryan has served as the environmental lead or project manager on numerous projects and has proven to be an effective manager of budgets, schedules, and communication between other disciplines. He has been integral in producing and reviewing environmental documents, including: Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions for multiple lead federal agencies.

Derrick Sharp, GISP – Geographic Information Systems:
Derrick brings 11 years of GIS experience to our team. He has a master’s in Historical Resource Management with an emphasis in Geographically Integrated History from Idaho State University. Derrick’s experience includes working as a Sr. GIS Analyst and Planner for Whisper Mountain Professional Services. He specializes in server-side GIS, workflow automation, complex spatial analysis, and spatial data management. His software experience includes the entire ArcGIS Suite. Derrick has experience developing GIS analysis for planning projects to visualize impacts and suitability. He can also train our clients in all facets of GIS which allows them to manage their Geographic Information Systems quickly and efficiently. Derrick has worked on a variety of projects involving local and state agencies to improve their spatial analysis and GIS data management capabilities.

Beau Hunter – Public Involvement:
With a decade of public involvement and construction management experience, Beau has overseen communication efforts on more than 100 UDOT projects statewide. Beau is known for his ability to manage communications through all phases of a project using a combination of boots-on-the-ground interaction and media relations tactics. He anticipates public concerns, develops a strategy to proactively address each, and works seamlessly with his clients to mitigate any issues that may arise. He excels in leading outreach and media relations on projects with complex residential and business impacts.

Scott Bishop, PLS – Cost Estimates/ Prioritization:
Scott has more than 16 years of experience as a land surveyor. He has conducted extensive boundary surveys, construction staking, right-of-way, topographic mapping and surveying, ALTA surveys, annexation, and water rights surveys; designed subdivision plats; and prepared records of survey. He has served as an expert witness on multiple cases and has served as an acting
City and County Surveyor. Scott has prepared all types of ROW instruments for both local and federal projects, and helped a number of local governments obtain property for their projects.

Marie Woodin, PLS – Right-of-way/Preservation: Marie has more than 20 years of professional experience, including more than 14 years as a Professional Land Surveyor. Throughout her career she has prepared and managed right-of-way (ROW) projects, boundary surveys, ALTA drawings, topographic surveying, annexations, and subdivision plats. She has been involved with creating ROW maps and documents for use with acquisition. She has been involved in commercial and residential developments within the private sector as well as large governmental projects. Marie has experience performing extensive land ownership and easement research in various counties throughout Utah. Marie has a great working relationship with UDOT and various cities and agencies.

Lonnie Olson, PLS – Data Collection: Lonnie has 20 years of experience in surveying and surveying technologies. He currently acts as the Survey Operations Manager at Horrocks Engineers. His duties include overseeing and coordination of all field surveys for many types of projects, including topographic, hydrographic, boundary, design, 3D laser scanning, construction staking surveys, and as-built surveys. He also oversees the data processing, managing of the survey data files, preparation of survey control, and existing topographic map drawings. Lonnie has been a key part of many major projects including UTA Airport Light Rail, I-15 Access Utah County, Utah Data Center, Legacy Parkway, Heber Airport Expansion, and many more.

Sandi Lampshire – Graphics/Marketing: Sandi has been serving the design and construction industry for 15 years, with eight years as part of Horrocks’ communication’s team, including: public involvement, public relations, media relations, database coordination, graphic design, event management, and marketing. She is a skilled communicator and graphic artist with experience in messaging and presenting technical engineering and construction information to the public. Sandi has been an integral part of several public involvement efforts providing: communication planning; project branding, web site design, and printed collateral; coordination of public information meetings; and coordination of special events. Prior to Horrocks, Sandi worked for a regional architectural firm and an international PR and advertising agency, both in Salt Lake City. Her past PR/Media activities included work for: National Geographic; Huntsman Cancer Institute; KSL Channel 5; and the 2002 Olympic Committee.

SUB-CONSULTANTS

Sid Ostergaard – Planning: Sid has spent the past sixteen years in land planning and landscape architectural design of projects throughout the United States, Mexico and other international venues. His skills lie in his aesthetic sensibility to the nuances of land whether it be desert, mountain or seaside and in his understanding of the components necessary to a successful project design. His understanding of how to match the built environment to the often extreme landscapes in which we work has saved clients millions of dollars in development costs and resulted in projects that people want to live in and come back to time and time again. With his artistic talent, Sid can translate technical engineering issues into sketches that both clients, public officials, and the end user readily feel comfortable with and understand.

Senta Beyer – Trails Planning: Trails master planning, which may include drafting development and design standards, environmental review and permitting, conducting public meetings, project management, project design, fundraising, developing comprehensive sign plans, preparing and analyzing technical documents, and other tasks necessary to facilitate trail development on a variety of levels.

Bryan Markkanen, AIA (Victus Advisors) – Funding: Bryan assembled the Uintah Basin Recreation Master Plan, including conceptual drawings for new facilities and in-depth analysis of existing ones; participated in design for the zip lines and the jump facility at the Olympic Park; did the conceptual design and master planning for the National Ability Center with the construction of a equestrian support facility; and gives in earnest to non-profits that cultivate outdoor recreation.
PROJECT EXPERIENCE

MOAB LIONS PARK TRAIL (ON SR-128), Grand County, UT – Horrocks was responsible for developing a design, obtaining permits, and performing the construction management for a two-mile segment of the Moab Lions Park Trail adjacent to SR-128 on the banks of the Colorado River.

Client Reference: Rick Torgerson, UDOT R4, 435-896-6458

PROVO WESTSIDE CONNECTOR (PWC), Provo, UT – This greenfield project near Utah Lake included 3.5 miles of new roadway and multi-use trail. Design included roadway and trail, retaining walls, hydraulics, and utilities. Key elements included: Evaluating various wall types and trail configurations to maximize project scope, using retaining walls to support the roadway and trail while minimizing impacts to wetlands and ROW, conducting wetland mitigation, and coordinating with stakeholders.

Client Reference: John Higgins, UDOT R3, 801-404-3852

DIXIE DRIVE INTERCHANGE, St. George, UT – Project included an EA and CMCG for Dixie Dr Interchange. Key design elements included: new interchange and roadways on new alignment, integrated pedestrian/bike trails, pedestrian/bike structures, USFWS T&E, Section 404 permitting, CLOMR, cultural resources, bridges over rivers, drainage, and PI.

Client Reference: Brandon Anderson, UDOT R4, 435-619-0098

MOAB LIONS PARK TRANSIT HUB & COLORADO RIVER PATHWAY, Grand County, UT – Project included the addition of a 1.8 mile trail along the Colorado River. Depending on the natural terrain, the pathway was either placed on top of the river bank, supported by retaining walls, or raised above the river using a series of elevated trail bridges. Project also included one pedestrian tunnel and 12 retaining walls.

Client Reference: Rick Torgerson, UDOT R4, 435-201-1844

*Sub-Consultant Work
**SPANISH FORK RIVER PARKWAY ALIGNMENT TRAIL**, Spanish Fork, UT – In 2007 and again in 2016, Horrocks Engineers worked with Spanish Fork City on a trail that follows the Spanish Fork River from the mouth of Spanish Fork Canyon to I-15 called the River Parkway Trail.

**Client Reference:** Chris Thompson, Spanish Fork City, 801-804-4556

**OREM TRANSPORTATION master plan**, Orem, UT – Horrocks updated Orem’s Transportation master plan that was adopted in December of 2015. The project included evaluating and making recommendations for current transit, pedestrian, and bike mobility/safety plans. Horrocks’ public involvement activities included creation of an interactive project website with GIS maps for public comment and direct contact with stakeholders and the public. GIS was used extensively on this project.

**Client Reference:** Paul Goodrich, Orem City, 801-229-7320

**BONANZA PARK AND LOWER PARK AVENUE TRANSPORTATION PLAN**, Park City, UT – Horrocks has participated with Park City in several studies that involve the evaluation of transportation needs (multi-modal and pedestrian) along the SR-248 and SR-224 corridors. Our team created the SR-224 Corridor Study and have been actively implementing the recommendations with a SR-224 East and West pathway project and studies for a future tunnel project that we will be designing to complete a major trail “spine” connection.

**Client Reference:** Alfred Knotts, Park City, 435-615-5360

**BAY OF DREAMS**, La Paz, Mexico – Project included 5,000 acres of single and multi-family unit plans; as well as hiking, biking and ATV trails. We utilized renewable energy concepts for construction and ongoing utility service. And we optimized beach front and ocean views while avoiding the most environmentally sensative areas.
*RED LEDGES*, Heber City, UT – Project Planner, designed the conceptual village center with pedestrian paths and plaza, indoor/outdoor tennis facilities, club house, restaurants, condos and hotel. Also landscaped around club house and outdoor pool and did the conceptual design for the golf club house.

Client Reference: Mitchel Burns, Red Ledges, 435-657-4090

*GARIBALDI*, Squamish, Canada – Project Planner, designed hiking/biking/equestrian/ATV trails. Garibaldi is an all-season recreational and residential resort that is proposed for 7,900 acres of land along the Brohm Ridge outside of Squamish, British Columbia. The resort has been master planned to include 150 trails for alpine skiing, snowboarding, and free ride skiing accessed by 20 lifts. Garibaldi's proposed summer amenities include extensive golf terrain, hiking trails with breath-taking views, and equestrian facilities complete with stables, arenas, and riding paths.

*SHUNDAHAI*, Garden City, UT – Project Planner, designed hiking/biking/equestrian/ATV/golf court trails, equestrian trail head, golf course, golf club house, village center, and roads. Shundahai is a 1,000-acre four season resort with an 18-hole golf course, club house and recreational facilities.

Client Reference: Norm Mecham, Bear Lake, 435-757-6278

*VALLE NEVADO SKI AREA*, Vitacura, Chile – Analyzed the existing facilities and created signature plazas, pedestrian pathways, hiking and biking trails, new facilities, and lifts.

Client Reference: Ricardo Margulis, Valle Nevada, 562-477-7712
Comstock and Sidewinder Walkability Projects, Park City, UT – A shared-use path, sidewalk, and roadway improvements along Comstock Blvd. and Sidewinder provided major connection in the trails system throughout Park City and connects the Rail Trail to the recently constructed Pedestrian Tunnel under SR-248. The project involved significant public involvement effort, including several public meetings, which was provided by Horrocks.

Client Reference: Heinrich Deters, Park City, 435-615-5205

SR-248 Shared-Use Pedestrian Tunnel, Park City, UT – The SR-248 Pedestrian Tunnel was part of a walkability study from Park City. The City prioritized different locations where pedestrian connectivity was needed. This pedestrian crossing traverses SR-248, which is a major corridor within the city. Horrocks was responsible for trail and structures design, storm drainage, sanitary water, utility relocations, grading, construction management, and public involvement.

Client Reference: Heinrich Deters, Park City, 435-615-5205

Other Relevant Experience

Feasibility Study (bike/ped bridge between Orem FrontRunner station and UVU Campus)

Horrocks worked with Mountainland Association of Governments (MAG), Orem City, and UVU to estimate the feasibility of connecting the existing FrontRunner station to the UVU Campus. This required that we include a facility that would allow and encourage pedestrian and bike travel. The project is currently funded and under design.

Mt. Olympus Trail Head Redesign

This was a Salt Lake County project along Wasatch Boulevard. Horrocks designed a roadway widening and new pedestrian/bike lanes in an area that didn’t previously have bike lanes. Our design included a striping plan, shoulder design, and access design to Wasatch Boulevard.

Wasatch Drive Traffic Calming/Road Narrowing

Wasatch Drive is a local road on the University of Utah campus. Horrocks provided a new striping plan that included pedestrian/bike lanes where possible and a shared lane for a short portion of the roadway. Parking was rearranged and restricted to allow the roadway to have better crossings and improve pedestrian and bicycle safety.

University of Utah Transportation Master Plan

As part of the overall Transportation master plan, Horrocks developed an inventory of existing pedestrian and bike facilities and detailed locations to make improvements. This included adding pedestrian/bike continuity, suggesting below-grade pedestrian/bike trail crossings, sidewalk continuity, bicycle storage, and covered bike lock areas.

Broadway Shared-Use Lane Intersection

Implementation of pedestrian/bike lanes in downtown Salt Lake City required thorough evaluation of intersections and approaches. This project was an innovative way of creating safe bike ways while still integrating them into the roadway for a “complete street.”

Main Street Station

Horrocks was awarded the 2017 ITE Intermountain Section Transportation Engineering Project of the Year for designing an innovative multimodal transportation system in downtown Boise. This project integrated a downtown bus depot with underground facilities. It also included Idaho’s first underground ramp that exits on to a major roadway within a previously existing lane of travel. Bike and pedestrian safety were key elements of the project scope. Horrocks performed access studies to implement the City’s new pedestrian/bike lane program within the project design and construction.
Horrocks Engineers is excited for the opportunity to participate in the creation of this trails master plan (master plan). We are fully committed to providing quality services to the Seven County Infrastructure Coalition (Coalition) and will be responsive to the project needs. We understand that the goal of this project is to gather data and comments and put it in a GIS format catalogue. This catalogue will include existing and proposed trails, and will generate a trails master plan for the Coalition that identifies existing and future trails expansion, and serves as a blueprint to complete an organized trail system for the enhancement of the tourism economy in Daggett and Uintah Counties. In conjunction with the creation of the master plan, we understand there will be a communications aspect that will encompass public involvement (PI), marketing, and partnering with agencies and interested individuals.

**Daggett and Uintah Counties have significant resources to offer the biking and trail communities throughout Utah.** The abundant natural resources of this region have attracted many local and non-local visitors (Flaming Gorge, reservoirs, mountain trails, etc.) The desire to expand upon and develop the existing resources is a reflection that the Coalition is in tune with the growing demands of such infrastructure and has a unique opportunity to provide it in a well-developed master plan. This master plan should serve as not only a document for the counties’ existing and future infrastructure needs, but also as a vision for marketing and attracting visitors to this region, as it further becomes a “destination” for recreation and users, and a critical component to the active transportation component of the counties.

We are aware there may be various opinions on the trail system, but we feel that our team will have the expertise and manpower to identify and address any conflicts that may arise. We will assign a principal and associates to active project roles for continuity, and to ensure a strong commitment of the firm and the project team throughout the project’s duration. Our project manager will focus on team leadership, collaboration, and properly managing the quality, schedule, and budget of the project. This approach is designed to maximize project quality and efficiency through the coordination of work tasks and the development of specific project deliverables. The Coalition can be certain that we understand the scope of work and the required tasks to complete the project.

**Task 1: Development of Trails Database (GIS format).** Horrocks Engineers recognizes that information about trails in Uintah and Daggett Counties exist in a variety of locations. The first task is geared towards **collecting and organizing available information.** The data that needs to be gathered includes information about existing and proposed trails, which include their condition, history, maintenance concerns, existing right-of-ways, environmental issues, and opportunity for expansion.

Part of Task 1 includes the leg work. Our intent is to “beat the brush” and generate a list of potential sources for trail information and environmental information within Uintah County, Daggett County, and on State of Utah and United States database websites. Such sources for this information include but are not limited to:

- Seven County Coalition
- Uintah County
- Daggett County
- Vernal City
- Ballard City
- naples City
- BLM
- Town of Manila
- UDOT
- Geographic Reference Center
- SITLA
- Natural Resources
- Wildlife Resources
- AGRC
- Ashley National Forest
- Ballard City
- Utah National Parks Council
- Private Land Owners

One of the key tools that Horrocks will utilize throughout this project is our **GIS technology.** Through GIS, we have the capability of compiling and conveying information in its simplest form for the public, as well as in technical form to be utilized by each jurisdiction. We are up to speed on the latest technology and are excited to apply our knowledge on this project.
Team members will coordinate with all entities, and information and data gathered from the generated list will be compiled and put into a GIS model. The GIS model will include existing and future trails, and will give the user access to information about specific uses of the trail, whether it be ATVs or snowmobile, or non-motorized uses like equestrian, cross country skiing, bicycling, or hiking. The database will also display future trails as historic, new or improved, as well as potential opportunities for a trail within an existing County right-of-way.

We propose investigating new forms of information gathering, including tapping into the wide variety of existing resources and technologies that are user-based, such as STRAVA, Map my Run, and Trail Forks. These databases track real users and allow us to see where and what trails are currently being used. This information also allows us to identify gaps in the system.

Horrocks will use information provided by the Counties, as well as other publicly available information, to identify environmental concerns. This will also be entered into the GIS trails database in order to provide information for planning purposes. Horrocks does not anticipate the need for any fieldwork or site visits to confirm the presence or absence of environmental resources.

Horrocks Engineers has substantial experience obtaining environmental information and coordinating with federal, state, and local agencies in Uintah and Daggett Counties. These include Ashley National Forest, the Vernal Field Office of the BLM, the Bureau of Reclamation, Utah School and Institutional Lands Administration (SITLA), UDOT, Uintah County, Daggett County, the Uintah Basin Association of Governments, and private landowners. Our environmental staff are experienced in dealing with land ownership, wetlands and waters of the US, threatened and endangered species, specially designated areas, cultural resources, and other environmental resources in the Counties.

Using the GIS portal, the Coalition will quickly be able to view the condition, history, and maintenance of each trail, as well as environmental aspects tied to each trail. The GIS model can be formatted so that it is interactive and authorized individuals will be able to update the status of each trail as changes are made and new trail information is received.

Horrocks has an unmatched right-of-way team that is experienced in not only identifying ROW and easements through the development corridors, but is also able to establish ROW needs and participate in the negotiation of land purchases that may be needed to implement the vision of the trail system. We do not anticipate that undesired land “takes” will be required, but rather easements as needed. Our team can help manage the best way of procuring property for the trails to be installed.

**Task 2: Partnering.** One of the keys to the success of this master plan will be communication and partnering with all agencies that will be affected, have jurisdiction over the location where existing trails exist, or are located where future trails will be located. A list of partners will be determined under this task, and we will establish a system to effectively and efficiently collect input from all affected or interested agencies vital to the achievement of the master plan.

It is important to be up front with all affected and interested or concerned individuals, and provide organized, user friendly information during this entire process, so that they can view, have input, and be included in the creation of the master plan. Those agencies that we feel will be strongly involved with the vision of the trail system in Uintah and Daggett Counties include SITLA, the Utah Division of Wildlife Resources (UDWR), State Parks, government agencies, private enterprises, tribal councils, trails committees, the Coalition, and the concerned public, just to name a few.

During this task, discussions with these agencies will focus on issues, such as the trail system interconnectivity, public access, right-of-way, and economic development. We will hold regular team meetings, assess risk and track risk items, and create an environment of open communication for all team members. Under this task, it is our intent to hold regular meetings with the Coalition so they can stay current of the planning process and offer feedback.

**Task 3: Public Involvement.** Horrocks Engineers has an in-house PI department that will develop and execute an effective PI strategy, which will focus on timely public and agency communications and coordination. Our team will organize meetings in public settings and present material for review and input. We understand there will be numerous jurisdictions that hold public meetings, and our team will schedule those accordingly so that the public and committee...
members will have the opportunity to have input in a public forum on the master plan, and on needs and interest of projects that are of the highest priority. We also understand that there will likely be a strong Tribal presence that we need to coordinate with for potential interconnectivity.

Horrocks has the ability to utilize our in-house GIS experts to upload public comments that can be viewed in real time by members of the coalition, government agencies, private entities, and the public. All public information received will be organized and put into a directory so that it can be easily viewed and incorporated in the master plan as needed.

**Task 4: Trails Master Planning.** Analysis of the existing data gathered as described in previous tasks will be utilized in the master plan creation. The analysis will focus on:

1. Recreation routes
2. Travel routes
3. Interconnectivity with adjacent counties and tribal lands; identifying existing trail and trailhead locations and any needed improvements
4. Identify required future trailhead locations
5. Recommended improvements
6. Future trail system recommendations
7. Economic benefits for proposed projects
8. Existing/future county roadways, and the recommendation for trails within right-of-way

We will analyze existing Uintah County and Daggett County general plans as well as existing risk mitigation plans (RMPs).

We will also work on describing a marketing strategy for the trail system in an effort to increase travel and tourism in Uintah and Daggett Counties. There are so many opportunities to create a brand for this region that draw interest from the trails-based recreationalists. We will work with the Coalition to identify strategies and marketing ideas. Information must be made available with easy searching. It is important to have a strong presence on social media as well as the resources that people currently use when searching for trails such as Trail Forks and utahmountainbiking.com. New trails can be featured on these sites and can introduce interest for people looking to travel to new destinations.

There is no reason that Daggett and Uintah Counties cannot be home to several of the growing fields of competition that exist with The National Interscholastic Cycling Association (NICA) High School mountain biking races, ICUP events, marathons and half marathons, or triathlons and “Ultra events.” This market is only growing and unique venues are continually sought after.

Many communities have been actively implementing these events into their calendars, as it not only draws people to the community for the event, but it also exposes people to the unique trail opportunities that can be offered.

We will use collected data and information from significant stakeholders (which may include public and private entities benefiting from the travel and tourism sector of this region), and interested parties to prioritize projects which will include short, medium, and long term planning. Along with identifying and prioritizing projects, there must be a consistent vision for the overall master plan which consists of “spine” systems that interconnect the regions and various smaller trail and recreation systems. These spines do not necessarily need to be a common constructed path, but an alignment which identifies the major routes that are currently being used and will be used as the master plan is realized. These spine systems are not only key for conveying users, but also a means of connecting the various regions that are impacted by the trails system.

Under this task, a completed report will be created, and an internal quality control process will be completed. We have a formal Quality Assurance/Quality Control Program that includes technical and peer reviews, including a five-step check process to ensure a quality product is delivered to the client. Prior to releasing a final document, it is checked, and corrections made and verified.

Our team of experts has designed trails and master plans with various communities and has a strong commitment to developing well-designed systems. As trail users (our team includes mountain bikers, road bikers, off-road vehicle
users, runners, hikers, and cross-country skiing/winter users) we understand that in order to get people to use the trails, the trails must be well designed and planned. There are several design guidelines that we are familiar with and have implemented including the IMBA (International Mountain Bicycling Association) Guidelines for soft trails and AASHTO Guidelines for urban and paved trails. ADA accessibility is easy to achieve on the trails that are considered community resources and these accessible routes need to be made available. The mountain trails will be designed to satisfy not only soft recreational use, but will have components that draw the more “intense” users with downhill courses, and longer endurance “climbs” to draw people from all over. We envision creating a reputation for these trails that will help Daggett and Uintah Counties be recognized as the place to go for rides and weekend excursions.

Specific trails should be equipped with parking facilities to accommodate events such as the NICA or ICUP events that draw people from all over the state and in doing so, help solidify the region as a “good venue” for events.

Wayfinding is a critical component of the master plan. Users must have an easy, recognizable, and consistent means of identifying trails. This creates a sense of comfort and confidence while riding in unfamiliar areas. Developing a standard signage system and naming system will be one of our goals.

Along with the trails, the team needs to draw users to existing and proposed amenities that this region has to offer. This can be anything from reservoirs to peaks, to parks and even popular eating establishments. Riders and runners like to have a destination. The Trails master plan should help create “routes” which lead to the destination and create the experience the user wants to feel.

A common discussion among trail system coordinators and jurisdictions is: what to do with electric and motorized bikes? Are they allowed on the trails? We will help facilitate this discussion by identifying equipment and where these bikes should be allowed. This discussion also needs to include electric bikes and how the future of these bikes change the trail use.

The trail systems should not stay strictly outside of the urban areas. By connecting urban trails and recreation trails, the user is brought into an environment that promotes commerce and an economic benefit to the cities and counties where they exist.

Rail Trails are another means of utilizing an existing right-of-way and creating a low-grade smooth transition trail for all users. These are also a major benefit to connecting areas that are far apart. This has been hugely successful in Park City. Horrocks has worked with other communities on their rail trail and has experience in seeing just how successful these systems can be.

With a strong winter recreation community in Utah, the need for winter trails is growing. Historically, cross-country skiing and snow shoeing have been the dominate use. Now with the growth of skate skiing and fat bikes, the winter trails are becoming more and more crowded. We would work do identify the trails that could be used for winter recreation as well. It should be noted that this is also an advantage to identify winter use trails, as it removes the need to snow plow or remove snow from these systems.

We will work with the Coalition to identify maintenance methods for the trails. This is important when designing the master plan as we will develop strategies for snow removal, leveling, run-off protection, and basic design standards to accommodate maintenance and service vehicles.

We propose developing a standard for landscaping so that a common aesthetic can be maintained as well as uniformity to convey a sense of place.

**Task 5: Final Report.** With the completion of the quality control phase, Horrocks will create a final report, including an executive summary, a priority list of projects, maps generated from the GIS database with specific information for each trail, critical elements for the trail system as a whole, and the trails’ environmental status. This report will reflect the Coalition’s vision for a usable and sustainable trail network that will
improve each county involved and bring visitors to discover this developing amenity.

The most important part of this project is to **create a report that is truly usable** and not something that promotes an unattainable or unpursuable vision. The document shall serve as the basis and guideline for future construction efforts and an integration into other projects throughout the counties. The executive summary shall provide the reader with a succinct outline of the region’s resources, and with a sense of the vision and an understanding of what can be accomplished on the trail network throughout the region.

It should also be a tool the public can use, and will include a web address to direct the reader to an internet site with a GIS database of the trails that is publicly accessible. Horrocks will also prepare a presentation of the plan to the Coalition Board.

**Task 6: Funding (as requested).** At the discretion of the Coalition, Horrocks will assist in the procurements necessary to fund this master plan. We have a long history in the Uintah Basin and extensive experience in coordinating with clients and in working with the Community Impact Board (CIB), and getting clients those funds needed to support and sustain their projects. Early coordination for management of the project funding will aid in keeping the project on schedule and budget.