County Contract No._____

AGREEMENT
BETWEEN
ENSIGN ENGINEERING AND LAND SURVEYING
AND
WEBER COUNTY
FOR
PROFESSIONAL SERVICES

2022 PINEVIEW RECREATION SITES REDESIGN
SOLICITATION # 22-200

****

THIS AGREEMENT is made and entered into as of the 11 day of October, 2022, by and between WEBER COUNTY (COUNTY), a body corporate and politic of the State of Utah, and ENSIGN ENGINEERING AND LAND SURVEYING (CONSULTANT), an Utah corporation authorized to do business in Utah, Taxpayer Identification No. 87-0443598.

W I T N E S S E T H:

WHEREAS, COUNTY desires to obtain engineering services for the 2022 Pineview Recreation Sites Redesign; and

WHEREAS, CONSULTANT has submitted a proposal to provide consulting and related services for such; and has been chosen through a competitive process to contract with COUNTY; and

WHEREAS, COUNTY desires to accept said proposal and to receive the services of CONSULTANT as set forth in said proposal;

NOW, THEREFORE, in consideration of the mutual covenants set forth herein, the parties agree as follows:

ARTICLE I

SERVICES OF THE CONSULTANT

A. CONSULTANT shall perform such services as are specified by this contract and as are specified by the scope of services set forth in Exhibit A to this contract, attached hereto and incorporated herein. In performing said services, CONSULTANT shall follow practices consistent with acceptable professional and technical standards for work of this nature.

B. CONSULTANT hereby agrees to furnish those services necessary to complete the scope of services specified in this contract. All said services shall be performed by CONSULTANT or by CONSULTANT's associates, employees, or subconsultants under the personal supervision of the Project Manager, designated in Article I, Section C, or such other qualified person as shall be designated by CONSULTANT and approved in writing by COUNTY.

C. Robert Rousselle will perform or supervise the project on behalf of CONSULTANT as Project Manager. Should (s)he be unable to complete said responsibility for any reason, COUNTY reserves the right to terminate this contract in the event (s)he is not replaced by a person which COUNTY finds satisfactory.

D. CONSULTANT has, or will secure at its own expense, the qualified personnel required to perform the services specified by this contract.

E. Except as may be delineated in Exhibit A, or except as allowed by COUNTY's Representative in writing, none of the services specified by this contract shall be subcontracted.

F. During the contract period, CONSULTANT shall attend such meetings and public hearings and shall provide such advice as may be required as described in Exhibit A.

G. All materials developed, prepared, completed, or acquired by CONSULTANT during the performance of the services specified by this contract, including all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, and reports, in both electronic and non-electronic format, shall become the property of COUNTY and shall be delivered to COUNTY during or at the end of the contract period. All such materials shall not be released by CONSULTANT at any time without the prior written approval of COUNTY's Representative. It is understood and agreed that such materials are to be prepared exclusively for work required under this agreement, and that their use on other projects may not be appropriate. Therefore, COUNTY agrees that its use of said materials on other projects shall be at its own risk unless prior thereto CONSULTANT has given its written approval for such use.

H. In providing opinions of cost, financial analyses, economic feasibility projections, and schedules for the project, CONSULTANT has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by third parties; quality, type, management, or direction of operating personnel; and other economic and operational factors that may materially affect the ultimate project cost or schedule. Therefore, CONSULTANT makes no warranty that COUNTY's actual project costs, financial aspects, economic feasibility or schedules will not vary from CONSULTANT's opinions, analyses, projections, or estimates. Such variations will be resolved by negotiation between the parties and amendment to this agreement, if needed.

I. CONSULTANT shall not at any time supervise, direct, control, or have authority over any contractor work, nor shall CONSULTANT have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any

contractor, or the safety precautions and programs incident thereto, for security or safety at the Site, nor for any failure of a contractor to comply with Laws and Regulations applicable to such contractor's furnishing and performing of its work.

ARTICLE II

MANAGEMENT AND COORDINATION

In order that COUNTY may maintain coordination with the content of the studies completed and the services performed as specified by this contract, it is hereby agreed that the services performed by CONSULTANT hereunder shall be coordinated with COUNTY's Representative, who will be either the County Engineer (currently Gary Myers, P.E.) or the County Engineer's designee.

ARTICLE III

SERVICES OF THE COUNTY

A. The representative designated above shall serve as the sole intermediary between COUNTY and CONSULTANT. Said representative shall receive and examine documents submitted by CONSULTANT and shall render any needed decisions on COUNTY policies or procedures in a prompt manner so as to prevent unreasonable delay in the progress of work to be performed by CONSULTANT under this agreement.

B. COUNTY shall without charge furnish to or make available for examination or use by CONSULTANT, as it may request, all available pertinent information and documents related to the project which COUNTY has available and may legally disclose.

C. COUNTY shall not be responsible for discovering deficiencies in the technical accuracy of CONSULTANT's services. CONSULTANT shall correct deficiencies in technical

accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in COUNTY-furnished information.

ARTICLE IV

(RESERVED)

ARTICLE V

TIME SCHEDULE

A. CONSULTANT shall commence its services as specified by this contract upon receipt from COUNTY of written notice to proceed. CONSULTANT shall meet set milestones and complete its work hereunder within the time limits set forth in Exhibit D, except where written notification of variance is received from COUNTY's Representative or except in the event of the occurrence of unforeseeable circumstances beyond the reasonable control of CONSULTANT.

B. It is hereby agreed that CONSULTANT is not required to provide full-time service throughout said period. However, during the entire contract period, CONSULTANT shall commit necessary resources as deemed necessary, within reason, to keep to said schedule.

ARTICLE VI

COMPENSATION

A. Payment to CONSULTANT for its services provided under this contract shall become due upon completion of the same. At the end of each 30-day period during CONSULTANT's performance hereunder, CONSULTANT may request a progress payment based upon work performed and services rendered within that 30-day period. COUNTY shall pay to CONSULTANT the requested payment, if approved, or the undisputed portion thereof within sixty (60) days of the progress payment request. Final payment shall be made when

CONSULTANT has submitted the final work product to COUNTY in a manner consistent with the contract. If COUNTY fails to make a payment within the time specified above, there shall be added to such payment, interest at a rate equal to the percentage rate earned by the County Treasurer on such funds, compounded monthly, commencing on the first day after said payment is due and continuing until payment is made. Interest shall be deemed to be additional to any compensation due CONSULTANT for services provided pursuant to this contract.

B. The payment process described above shall begin only upon submission by CONSULTANT, to COUNTY's Representative, of an invoice or billing signed by the CONSULTANT's Project Manager, including support documents. The invoice or billing may be a hard copy with a wet signature or an electronic document signed digitally (e.g., VeriSign). The invoice or billing shall include an invoice number. Any request for a progress payment shall be denominated as such and shall include the invoice or billing, with support documents, detailing the bill and giving a brief statement of accomplishments and status.

C. The parties agree that the compensation COUNTY shall pay CONSULTANT for performance of the services described in the "Scope of Work" found in Exhibit A shall be made as follows:

COUNTY shall pay CONSULTANT on a time and materials basis with an estimated fee of $442,940.27 (additional requested services will be charged at the hourly rates included in Exhibit B) further broken into the project areas with amounts as follows:

1. Port Ramp Area - $202,971.88
2. Pineview Trailhead Area - $73,573.81
3. Pelican Beach Area - $56,932.29
4. Spring Creek Area - $55,882.29
5. New Point Area - $53,610.00

unless this agreement is amended as specified in Article XI, Section G.]

ARTICLE VII

INSURANCE AND INDEMNIFICATION

A. CONSULTANT shall accept full responsibility for the payment of premiums for unemployment insurance and workers' compensation, as well as income tax and social security deductions and any other taxes or payroll deductions required by law for its employees who are performing services by this contract.

B. CONSULTANT shall procure and maintain the insurance policies required in this article from an insurance company authorized to write casualty insurance in the State of Utah, to protect itself and COUNTY from all claims including, but not limited to, bodily injury, death, or property damage which may arise from performance under the contract. All insurance policies must be approved and accepted by COUNTY, and excepting the professional liability and workers' compensation policies, will name Weber County as additional insured, and will be issued by a surety authorized to do business in the State of Utah and be rated with an A- or better rating in the most current edition of *Best's Key Rating Guide*.

C. CONSULTANT shall not commence performance under this agreement until it has obtained all insurance required by this article and filed a certificate of insurance or certified copy of insurance policy with COUNTY. Each insurance policy shall contain a clause providing that the insurance company will not cancel coverage without thirty (30) days prior written notice to COUNTY of intention to cancel. The amount of such insurance coverage will not be less than the following:

1. Workers' compensation statutory limits as required by the Workers' Compensation Act of the State of Utah and Employers Liability limits $1,000,000 per occurrence.

2. Commercial General Liability insurance in the minimum amount of $1,000,000 per occurrence with a $2,000,000 aggregate.

3. Professional Liability insurance in an amount of not less than $1,000,000.

4. Automobile Liability insurance in the minimum amount of $1,000,000 per occurrence with no deductible. "Any Auto" coverage is required.

Excluding workers' compensation and professional liability coverages, CONSULTANT's insurance coverage shall be a primary insurance. COUNTY's self-insurance or insurance shall be in excess of CONSULTANT's insurance and shall not contribute with it. CONSULTANT's failure to comply with policy reporting provisions shall not affect coverage provided to COUNTY, its officers, officials, employees, or volunteers.

D. CONSULTANT agrees to indemnify and hold harmless COUNTY, its officers, employees, and agents from and against any and all liability, loss, expense (including reasonable attorney's fees), or claim, arising out of the performance of this Agreement but only in proportion to and to the extent such liability, loss, expense, attorney's fees, or claims for injury or damage are caused by or result from the negligent or intentional acts, errors, and/or omissions of the CONSULTANT, its agents, employees, and/or subconsultants. CONSULTANT shall not indemnify for default when the delay is beyond the control and without the fault and negligence of CONSULTANT, including but not restricted to, changes in the scope of work, strikes, availability of materials, acts of God or of the public enemy, acts of COUNTY or its representatives or agents, and acts of any other consultant and/or contractor in the performance of a contract with COUNTY.

E. The parties agree that for purposes of this agreement, CONSULTANT, its officers, agents, and employees are not to be regarded as COUNTY employees, and that CONSULTANT is an independent contractor in all respects.

ARTICLE VIII

REMEDIES

A. Time for Completion. The date of beginning and the time for completion of the specified work are essential conditions of this contract. If CONSULTANT shall fail to comply with the time schedule set forth in Article V and Exhibit D, or any extension of time granted by COUNTY, then CONSULTANT shall be in default, unless the failure is beyond the control and without the fault and negligence of CONSULTANT. If CONSULTANT defaults, then COUNTY shall be entitled to the recovery of direct damages, if any, resulting from the default, in addition to any other remedies granted by this contract.

B. Correction of Work. CONSULTANT shall promptly replace and/or re-execute work rejected by COUNTY for failure to comply with this contract, without expense to COUNTY. However, COUNTY shall give expeditious and thorough consideration to all reports and sketches, estimates, drawings and specifications, proposals and other documents submitted by CONSULTANT and shall inform CONSULTANT of any decisions concerning adequacy of the work within a reasonable time.

C. Disputes. If CONSULTANT disputes COUNTY's compliance with any term of this contract, CONSULTANT shall present its claim in writing to COUNTY within ten (10) days of learning of the act or condition that created the dispute, or the claim shall be deemed waived by CONSULTANT. Notice of such claim need not be specific in detail but shall be sufficient to identify the character and scope of the claim. COUNTY shall consider said claim and render its

decision thereon in writing not later than ten (10) days following the date notice of said claim was received by COUNTY. In the meantime, CONSULTANT shall proceed with the work as directed by COUNTY. If CONSULTANT is aggrieved by the decision of COUNTY upon its claim, CONSULTANT shall nevertheless comply therewith and complete the work required thereunder, and under this agreement. By giving timely notice of its claim according to this paragraph, CONSULTANT shall preserve its claim for future proceedings or litigation, if necessary. However, the existence of any dispute shall not serve as reason to terminate or delay the work required under this agreement.

ARTICLE IX

CHANGES

COUNTY may, at any time by written order, and without notice to the sureties, if any, make changes in the concept of the project of this contract, if within its general scope. If such changes cause an increase or decrease in CONSULTANT's cost of, or time required for performance of the contract, an equitable adjustment in price or time will be made and the contract modified in writing accordingly. The equitable adjustment shall be based upon a negotiated price for the change required. All changes shall be set forth in writing, signed by all parties prior to the performance thereof and any changes in price shall be added to or subtracted from the price hereof and billed to COUNTY in accordance with the provisions of Article VI hereof. Except as provided in this contract, no charge for any extra work or materials will be allowed or paid. In determining the equitable adjustment to be paid, the books and records of CONSULTANT pertaining to this agreement shall be made available to COUNTY.

ARTICLE X

TERMINATION

A. COUNTY shall have the right to terminate this agreement in whole, or from time to time, in part, for COUNTY's convenience or because of CONSULTANT's failure to fulfill the contract obligations. COUNTY shall terminate by delivering to CONSULTANT a Notice of Termination specifying the extent to which performance of services under this contract is terminated, and the date upon which such termination becomes effective. In the event the agreement is terminated by COUNTY prior to full performance by CONSULTANT, CONSULTANT shall be paid for services rendered to the date of termination based upon a percentage of completion of the full performance of this agreement.

B. After receipt of a written Notice of Termination for convenience, CONSULTANT shall:

1. Stop work under the contract upon the date and to the extent specified in the Notice of Termination;

2. Place no further orders or subcontracts for materials, services or facilities, except as may be necessary for completion of such portion of the work under the contract as is not specifically terminated;

3. Transfer to COUNTY, and deliver to COUNTY, work in process, completed work, completed or partially completed plans, drawings, information and other property (including all electronic files and support files) which would be required to be furnished to COUNTY if the contract had been completed;

4. Terminate all orders and subcontracts to the extent that they relate to performance of work terminated by the Notice of Termination;

5. Assign to COUNTY, in the manner, at the times, and to the extent directed by COUNTY, all of the right, title, and interest of CONSULTANT in any orders and

subcontracts so terminated, in which case COUNTY shall have a right, in its discretion, to settle and pay any or all claims arising out of the termination of such orders and subcontracts;

6. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with the approval and ratification of COUNTY to the extent CONSULTANT may require, which approval or ratification shall be final for all purposes of this clause.

C. After receipt of a written Notice of Termination, CONSULTANT shall submit to COUNTY its termination claim no later than sixty (60) days after the termination of this contract, unless extensions in writing are granted by COUNTY. Upon failure of CONSULTANT to submit its termination claim within the time allowed, COUNTY may determine, on the basis of information available, the amount, if any, due to CONSULTANT by reason of the termination and shall thereupon pay to CONSULTANT the amount so determined.

D. In the event of termination for convenience, the amounts due CONSULTANT from COUNTY shall be determined as follows:

1 There shall be included all costs and expenses reimbursable in accordance with this contract, not previously paid to CONSULTANT for the performance of this contract prior to the effective date of the Notice of Termination, and such of these costs as may continue for a reasonable time thereafter with the approval of, or as directed by, COUNTY; and

2 There shall be included so far as not included under (1) above, the cost of settling and paying claims arising out of the termination of work under subcontracts or orders, which are properly chargeable to the terminated portion of the contract.

E. With the exception of work completed prior to receipt of the Notice of Termination, in no event shall all termination claims and payments described herein exceed the value of work left to be completed as of the date of receipt of the Notice of Termination.

ARTICLE XI

MISCELLANEOUS

A. No Officer or Employee Interest. No officer or employee of COUNTY shall have any pecuniary interest, direct or indirect, in this agreement or the proceeds thereof. No officer or employee of CONSULTANT nor any member of their families shall serve on a COUNTY board or committee or hold any such position which either by rule, practice, or action nominates, recommends, or supervises CONSULTANT's operations, or authorizes funding to CONSULTANT. No officer, employee, or member of the governing body of COUNTY, or of the locality or localities in which the project governed by this contract takes place, shall (1) participate in any decision relating to this contract which affects his or her personal interest or the interest of any corporation, partnership, or association in which (s)he is, directly or indirectly, interested, or (2) have any interests, direct or indirect, in this contract or the proceeds thereto.

B. Assignability. CONSULTANT shall not assign any interest in this contract, and shall not transfer any interest in the same (whether by assignment or novation), without the prior written consent of COUNTY.

C. Interest of CONSULTANT. CONSULTANT covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed as specified in this contract. CONSULTANT further covenants that in the performance of said services no person having any conflict of interest shall be employed.

D. Equal Employment Opportunity. CONSULTANT, by entering into this agreement, or any person acting in its behalf, agrees that it shall not, because of race, color, sex, religion, age, disability, marital status, sexual orientation, ancestry, or national origin, discriminate in the engagement or employment of any professional person or any other person qualified to perform the services required under this agreement or any subagreement executed in the furtherance thereof.

E. Contingent Fees. CONSULTANT warrants that no person or company has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees; nor has CONSULTANT paid or agreed to pay any person, company, corporation, or firm, other than a bona fide employee, any fee or commission resulting from award of this contract. For any breach or violation of this provision, COUNTY shall have the right to terminate this agreement without liability and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration and any other damages and shall be responsible for reporting the details of such breach or violation to the proper legal authorities where and when appropriate.

F. Affidavit. A sworn affidavit may be required to be submitted by each officer, employee, or agent of CONSULTANT who has been in contact or communicated with any officer, agent, or employee of COUNTY during the past calendar year concerning the provision of these services. The affidavit shall contain the following statement.

> "I do solemnly swear that neither I, nor to the best of my knowledge, any member of my firm or company, have either directly or indirectly restrained free and competitive bidding for these consultive services by entering into any agreement, participating in any collusion, or otherwise taking any action

unauthorized by the governing body of the County, or in violation of applicable law."

G. Amendments. Unless otherwise provided for in this agreement, all changes, including any increase or decrease in the amount of CONSULTANT's compensation, time schedule, or scope of services, which are mutually agreed upon by and between COUNTY and CONSULTANT, shall be incorporated in written amendments to this contract and signed by the parties hereto. No alteration or variation in the terms of this agreement shall be valid unless made in writing as required herein.

H. Default. If either party defaults in the performance of the agreement or any of its covenants, terms, conditions, or provisions, the defaulting party shall pay all costs and expenses which may arise or accrue from enforcing the agreement or from pursuing any remedy provided thereunder.

ARTICLE XII

EXHIBITS AND SPECIAL PROVISIONS

A. Exhibits Included:

1. Exhibit A, Scope of Work.

2. Exhibit B, Cost Proposal

3. Exhibit C, Schedule

B. Total Agreement: This Agreement, (together with the exhibits identified above) constitutes the entire agreement between COUNTY and CONSULTANT and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties have signed and subscribed their names hereon and have caused this agreement to be duly executed as of the day and year first set forth above.

WEBER COUNTY

By: _____
Commission Chair

Recommended for Approval:

_____
Gary Myers, P.E.
County Engineer

ATTEST:

By: _____

Title: _____

CONSULTANT:
ENSIGN ENGINEERING AND LAND SURVEYING, INC.

By: _____

Title: PRINCIPAL

STATE OF UTAH)
: §
County of Salt Lake)

On this 7 day of October, in the year 2022, before me,
(notary name) Cherise Vincent, a notary public, personally appeared,
(signer name) Koby Morgan, proved on the basis of satisfactory evidence to be the person(s) whose name is subscribed to this instrument, and acknowledged (s)he executed the same.

Witness my hand and official seal.

_____
NOTARY PUBLIC

CHERISE VINCENT
NOTARY PUBLIC- STATE OF UTAH
COMMISSION# 722745
COMM. EXP. 03-25-2026

EXHIBIT A - SCOPE OF WORK

Proposal for:

2022 Pineview Recreation Sites Redesign
Pineview Reservoir Recreation Complex

Ogden Ranger District
Weber County, UTAH

Solicitation Project No. 22-200
August 16, 2022

rendering of the New Point Day Use Area by MGB+A

Ensign Engineering and Land Surveying
45 W 10000 S, Suite 500
Sandy, UT 84070
801-255-0529

August 16, 2022

Weber County
2380 Washington Blvd
Ogden, UT 84401

RE: PROPOSAL FOR 2022 PINEVIEW RECREATION SITES REDESIGN SOLICITATION #22-200

Dear Review Committee:

Ensign Engineering and Land Surveying (Ensign), and our dedicated team of consultants, is submitting our proposal for the above mentioned project. Per the solicitation, our Cost Proposal is submitted separately.

Like many others, we spend time with family and friends at many Weber County and US Forest Service facilities. Because of this, we understand the importance of engineering access and utility systems to support ease of use, long term functionality, and minimal maintenance.

For a better understanding of site constraints, our team visited each project site giving insight into *potential risks and mitigations, Tab 2, Page 15-17.* For the past 30+ years, our team has surveyed, planned, rendered, designed and managed hundreds of projects of similar scope. We have a wealth of knowledge from work on other recreation projects, *Tab 1, Page 5-7,* and will bring this past experience to this project. With this information and thought of creating a "sense of space," our team has created a *preliminary rendering, Tab 1, Page 4,* of the New Point area and additional associated renderings. These images are being provided to build upon the extensive work already completed by the US Forest Service's site concept plans and Pineview Recreation Complex Build Environment Image Guide (BEIG), so the entire project team can be on board to quickly move forward. *Following this cover letter is our Executive Summary.*

Collaboration will be critical to the success of these projects. With this in mind, our proposal includes a line item for meetings and coordination throughout design. Once we have finalized our constraints and opportunities mapping, we propose a workshop meeting where we can work with Weber County, Forest Service officials, and other project Stakeholders to confirm the precedent concepts we received work well with constraints. We can propose modifications to arrive at the best solutions for each site being sure to follow the BEIG by the end of the workshop. We will also present site elements (picnic pavilions, tables, benches, etc.) to gather input on a consistent pallet of amenities.

Our team designs and delivers projects for public agencies. We understand deliverable expectations (plans and design narratives), code review processes, collaboration, and the importance of a schedule being followed and how it can affect funding.

Thank you for your time reviewing our submittal and for your consideration.

Sincerely,

Robert Rousselle, PE, Associate
Mobile: 801-859-4759
Phone: 801-255-0529
Email: rrousselle@ensignutah.com

Koby Morgan, PE, Principal
Mobile: 801-520-9687
Phone: 801-255-0529
Email: kmorgan@ensignutah.com

EXECUTIVE SUMMARY SHEET

(There are NO requirements our team can not meet.)

TAB 1 ABILITY TO MEET PROJECT SCOPE

Project Understanding

Pineview Trailhead (renovation)

- Hwy 158 - Deceleration and Acceleration
- One-Way Access Road to Port Ramp
- Pedestrian Trails Extended
- New Day Use Sites
- New Double Vault Restroom
- Signage Kiosk per EM-7100-15

Port Ramp (renovation)

- Hwy 158 - Deceleration and Acceleration
- Access Road to Fee Station, Parking, and Boat Ramp
- New Buildings per BEIG -fee station, decontamination stations, boat ramp monitoring, concessions, and concessionaire administration
- Host Trailer Sites
- Pedestrian Trails Extended
- New Day Use Sites
- Boat Ramp - repave and add courtesy docks and floating docks
- New Double Vault Restroom
- Signage Kiosk per EM-7100-15

New Point (new construction)

- New Access Road and Parking Lot
- Pedestrian Trails Extended
- New Day Use Sites
- New Double Vault Restroom
- Signage Kiosk per EM-7100-15

Pelican (new construction)

- Hwy 158
- Access Road
- Pedestrian Trails Extended
- New Day Use Sites
- New Double Vault Restrooms
- Signage Kiosk per EM-7100-15 (future)

Spring Creek (new construction)

- Hwy 158
- Access Road
- Pedestrian Trails Extended
- New Day Use Sites
- New Double Vault Restrooms
- Signage Kiosk per EM-7100-15 (future)

TAB 2 TECHNICAL CAPABILITY - APPROACH

Ensign will utilize the traditional Design Development Documents (30% to 50% Design), Pre-construction Documents (95% Design), and Construction Documents (100% Design) phases submittal process, as specified in the RFP, to maintain synergy and forward momentum on this project. ***(Page 12-15)***

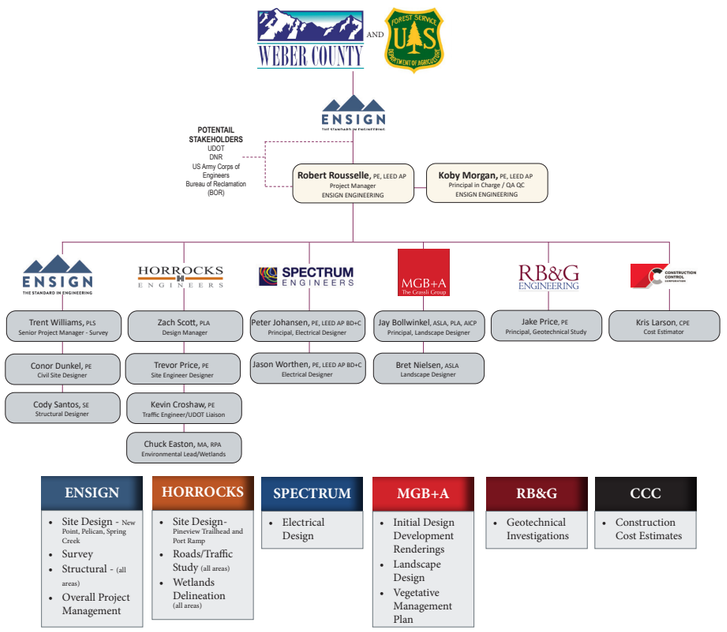
Prime Consultant Management of Project Tasks: Ensign will be the prime consultant and the main contact for Weber County and the US Forest Service. ***(Page 11)***

Division of Work Between Team Members: Design work will be between Ensign and Horrocks. Ensign will also complete survey and strucutral design. Horrocks will do traffic studies and wetland delineations. MGB&A covers planning and landscape architect services with RG&B completing geotechnical studies. Electrical design provided by Spectrum, and CCC handles cost estimating. ***(Pages 11-12)***

location	project team
New Point	ENSIGN
Pelican Beach-Quist	ENSIGN
Spring Creek	ENSIGN
Pineview Trailhead	HORROCKS
Port Ramp	HORROCKS

Risks and Mitigations Based on our design team's sites visit, several risks were identified with mitigation plans. ***(Page 15-17)*** We have also included some value added ideas. ***(Page 18)***

Project Team



Relevant Project Experience

Responsibilities	Ensign	Horrocks	MGB+A	Spectrum	RG&B	CCC
Pineview Loop Trail East-Side (Pelican Beach to Spring Creek)	✓					
Eden to Wolf Peak Mixed-Use Trail - 1.6 miles	✓					
Sand Hollow, Quail Creek, Gunlock State Parks Upgrade		✓		✓		
Willard Bay State Park	✓	✓		✓	✓	
Deer Creek State Park		✓	✓	✓		
Utahraptor State Park		✓		✓		
Green River State Park	✓		✓			✓
Dead Horse Point State Park				✓		
Goblin Valley State Park	✓		✓			✓
Wasatch Mountain State Park		✓		✓	✓	
Soldier Hollow State Park		✓				✓
Antelope Island New Bridger Bay Campround	✓		✓			✓
Tibble Fork and Dry Creek Day Use Areas and Dam Reconstruction		✓			✓	
Six Parks Environmental Studies		✓				
Antelope Island White Rock Bay Campground	✓		✓			✓
Rock Port State Park Day Use Area			✓			

(***Pages 5-6)*** for summary projects and schedules.

Schedule: We anticipate work to be bid in one bid package. The preliminary project schedule includes timelines for each task. Our detailed project schedule, ***(Page 19)***, shows details. Construction is anticipated to begin May or June 2023.

2022 PINEVIEW RECREATION SITES DESIGN SCHEDULE #22-200

Task	Days	Begin Date	End Date
Notice to Proceed (NTP)	0	Thursday, September 15, 2022	Thursday, September 15, 2022
30-50% (Design Development) Design Complete	60	Tuesday, September 20, 2022	Wednesday, November 16, 2022
30-50% Design Review	30	Wednesday, November 16, 2022	Friday, December 16, 2022
95% (Preconstruction Documents) Design Complete	60	Tuesday, December 20, 2022	Friday, February 17, 2023
95% Design Review	30	Friday, February 17, 2023	Sunday, March 19, 2023
100% (Bid Documents) Complete	30	Tuesday, March 21, 2023	Tuesday, April 18, 2023
Total Contract Days	**210**	**Tuesday, September 20, 2022**	**Tuesday, April 18, 2023**

Note: NTP is an estimated start date. Design Schedule will shift depending on the actual start date.

Overall Project Goals

1. Utilize the Pineview Reservoir Recreation Complex Build Environmental Image Guide (BEIG) as design guidelines for improvements around Pineview Reservoir.
2. Work with existing landscape and topographic conditions to fit the new road improvements into the terrain and natural setting.
3. Focus design on the user experience and connect the user to the landscape surrounding the reservoir.
4. Conduct a half day workshop with Weber County and Forest Service officials to verify the existing concepts work with constraints mapping (BEIG) principals.

TAB 3 QUALIFICATIONS AND EXPERTISE OF STAFF

Upon visiting each site, our team is familiar with the needed project upgrades. Some past experience comes from working together on Antelope Island - New Bridger Bay and White Rock Bay campgrounds and on a new campground and day use area and entranceat Willard Bay State Park. ***(Details Page 20-24)***

TAB 4 REFERENCES

See ***Page 25*** for a list of **ALL** references.

Name: Antelope Island State Park
Reference For: Ensign and MGB+A
Point of Contact: Jeremy Shaw, Park Manager
Phone Number: 385-238-8511

Name: DFCM
Reference For: Ensign and MGB+A
Point of Contact: Guy Wayman, DFCM PM
Phone Number: 801-518-0878

Name: DFCM
Reference For: Ensign
Point of Contact: Lucas Davis, DFCM PM
Phone Number: 801-842-8210

ENSIGN
THE STANDARD IN ENGINEERING

TAB 1
ABILITY TO MEET PROJECT SCOPE

PROJECT understanding

PROJECT UNDERSTANDING

The team we have selected consists of individuals at firms who have completed similar projects, some together. With a recent site visit, our team is familiar with the project areas, overall landscape, utilities and the environment of the Pineview recreational area. Based on the RFP and our site visit, the following is our understanding of the project.

USDA Forest Service is partnering with Weber County to solicit for, and award, contracts to provide professional Architect-Engineer Design and Supporting Services for a variety of recreation projects within National Forest System lands surrounding Pineview Reservoir in northern Utah. All recreation sites shall be designed and constructed to meet the manuals and handbooks listed in the solicitation. A description of the five (5) recreation project areas are summarized below:

1. PINEVIEW TRAILHEAD (RENOVATION)

- **Highway 158** - Deceleration and acceleration lanes (turn pockets) to alleviate traffic stacking onto Highway 158 – coordinate with transportation engineer and UDOT.
- **Access Road** - Extension of project road to New Point day use area with one way access to Port Ramp recreation area alleviating traffic queuing on Highway 158.
- **Pedestrian Trails** - Extend pedestrian accessible paths and non-accessible paths from parking to shoreline.
- **Day Use Sites** - Add pavilions with picnic tables on concrete pads, trash enclosures, and grills.
- **Restroom** - New double vault restroom
- **Signage Kiosk per EM-7100-15**
- **Highway Trail Underpass -** Our design team is currently working on a variety of highway trail underpasses. These underpasses are expensive, and, due to the overall budget of this project, we have left this design task out. However, we want to work with Stakeholders for potential UDOT funding to complete design and construction of this highway trail underpass. Also, if this is important to Weber County and the US Forest Service, we will add back to our scope.

2. NEW POINT (NEW CONSTRUCTION)

- **Access Road** - Layout access road and new parking lot to be integrated into the existing landscape and screened by existing and new trees avoiding wetlands
- **Pedestrian Trails** - Extend pedestrian accessible paths along existing natural trails connecting to parking lot and other recreation sites.
- **Day Use Sites** - Add pavilions with picnic tables on concrete pads, trash enclosures, and grills. Position day use site for best

New Point Rendering completed by MGB+A

PROJECT understanding

wildlife viewing opportunities.
- **Restroom** - New double vault restroom
- **Signage Kiosk per EM-7100-15**

3. PORT RAMP (RENOVATION)

- **Highway 158** - Deceleration and acceleration lanes (turn pockets) to alleviate traffic stacking onto Highway 158 – coordinate with transportation engineer and UDOT.
- **Access Road** - Layout access road through new fee station to existing parking lot and boat ramp.
- **Prefabricated Buildings per BEIG** - Fee station, decontamination stations, boat ramp monitoring, concessions, and concessions administration building.
- **Host Trailer Sites** - Concrete pads for the host trailer site, picnic table, grill.
- **Trails** - Extended pedestrian trails around existing parking lots connecting to natural trails leading to the Yacht Club.
- **Day Use Sites** - Add pavilions with picnic tables on concrete pads, trash enclosures, and grills.
- **Boat Ramp** - Repave and add courtesy docks and floating docks for future boat slips.
- **Restrooms** - New double vault restrooms.
- Elevated Board Walk
- **Signage Kiosk per EM-7100-15**

4. PELICAN (NEW CONSTRUCTION)

- **7100 EAST** - Deceleration and acceleration lanes (turn pockets) to safely access the parking lot - coordinate with Horrocks' transportation engineer.
- **New Parking Lot** - Layout new parking lot to be integrated into the existing landscape and screened by existing and new trees. Asphalt and striping will be in a future phase.
- **Trails** - Connect to existing trail on 7100 East, to and along parking lot, lake shore, day use sites, and other recreation sites. *Paving of trails will be in a future phase.*
- **Electric Pay Station (future)** - Design the site with this in mind for the future.
- **Day Use Sites (future)** - Add pavilions with picnic tables on concrete pads, trash enclosures, and grills.
- **Restrooms** - New double vault restrooms.
- **Signage Kiosk per EM-7100-15 (future)**

5. SPRING CREEK (NEW CONSTRUCTION)

- **7100 EAST** - Deceleration and acceleration lanes (turn pockets) to safely access the parking lot - coordinate with Horrocks' transportation engineer.

PROJECT
understanding

- **New Parking Lot** - Layout new parking lot to be integrated into the existing landscape and screened by existing and new trees. Asphalt and striping will be in a future phase.
- **Trails** - Connect to existing trail on 7100 East, to and along parking lot, lake shore, day use sites, and other recreation sites. *Paving of trails will be in a future phase*.
- **Electric Pay Station (future)** - Design the site with this in mind for the future.
- **Day Use Sites (future)** - Add pavilions with picnic tables on concrete pads, trash enclosures, and grills.
- **Restrooms** - Three (3) new double vault restrooms.
- **Signage Kiosk per EM-7100-15 (future)**

New Point Rendering completed by MGB+A

RELEVANT PROJECT experience

Our team recognizes the importance of creating a "sense of space and connectivity," more so now than ever before. Like many others, we spend time with our families and friends at many Weber County and US Forest Service facilities. With this in mind, we also understand the importance of engineering access and utility systems to ensure ease of use, long term functionality and minimal maintenance. Following here are a few projects we have worked on together making our team that much stronger since we also understand each other and we know our teaming capabilities are strong!

ANTELOPE ISLAND WHITE ROCK BAY CAMPGROUND ~ MGB+A and Ensign Engineering planned and developed a new campground. Ensign completed the topographic survey, site civil design, and managed the design team for this new 41 campsite campground at Antelope Island State Park, which is about to go out for bid. Seven (7) of the campsites are part of a larger group site that has its own restroom and pavilion. In lieu of precast concrete prefabricated restrooms our design team designed the restrooms to State Parks specifications and preferences. There are two (2) smaller restrooms with flush toilets, two (2) larger restrooms with flush toilets and showers, and one (1) smaller unisex restroom for the group site. This is the second campground on the island with electrical and water hookups, flush toilets, and showers. MGB+A was a subconsultant for concept plans and landscape design. Our design utilized HDPE pipe for drinking water and sanitary sewer mains for durability, lower upfront costs, and long-term maintenance benefits. It is jointless, inhibits root intrusion, is robust, corrosion resistant and required fewer sanitary sewer manholes since the pipe can be curved.

White rock Bay Campground Rendering completed by MGB+A

Task 1: Preliminary Design & Schematic Design 8/2021-2-2022	Task 2: Final Design Documents 1/2022-2/2022	Task 3: Bidding Assistance & Procurement 8/2022-9/2022	Task 4: Construction Management 9/2022-5/2023

RELEVANT PROJECT experience

ANTELOPE ISLAND NEW BRIDGER BAY CAMPGROUND ~ Ensign completed the topographic survey, site civil design, managed the design team, construction staking, and construction administration of this new 40 campsite campground at Antelope Island State Park. This is the first campground on the island with full hookups, flush toilets, and showers. This new campground allows more people to experience this unique island. MGB+A was a subconsultant for concept plans and landscape design. Our design utilized HDPE pipe for drinking water and sanitary sewer mains for durability, lower upfront costs, and long-term maintenance benefits. It is jointless, inhibits root intrusion, is robust, corrosion resistant and required fewer sanitary sewer manholes since the pipe can be curved. Due to the close proximity to the Great Salt Lake and fast infiltration of the native soil, an alternative onsite wastewater treatment system was required. The treatment system consisted of pre-cast concrete tanks (septic, septic/anoxic, anoxic, aeration/clarification combo), packed media bed, and UV treatment prior to discharge into a drain field. This provides long term preservation of the ecosystem due to the effectiveness of this type of wastewater treatment. Design also had to take into consideration the wildlife at Antelope Island State Park, more specifically bison. "Bison Proofing" consisted of mitigation measures to either eliminate bison interaction utilizing rock rip rap around improvements, providing bison a place for them to rub on to protect improvements, or constructing improvements sturdy enough for them to rub on.

Constructed New Bridger Bay Campground

Task 1: Preliminary Design & Schematic Design 3/2020-6/2020	Task 2: Final Design Documents 6/2020-7/2020	Task 3: Bidding Assistance & Procurement 7/2020-8/2020	Task 4: Construction Management 9/2020-8/2021

Existing Willard Bay Day Use Area

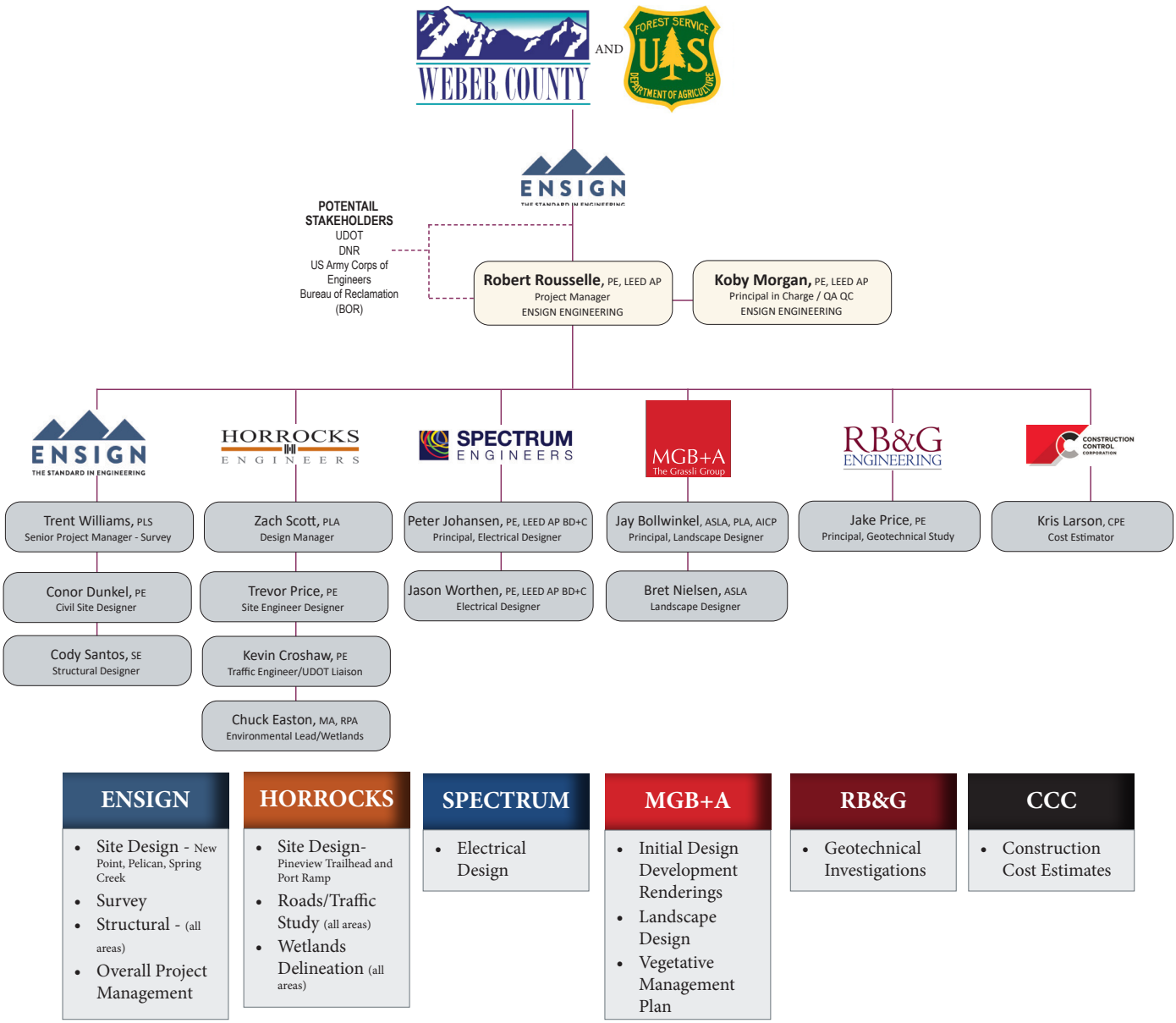
WILLARD BAY STATE PARK EXPANSION~ Horrocks Engineers and Ensign Engineering teamed to provide engineering and planning services for Willard Bay State Park. The project included the design of a new entry road to the park for more vehicle queuing, a renovation of the existing Willow Creek Campground, an expansion of the Willow Creek Campground with 26 new campsites, and a new day use area south of the existing marina which included parking areas, trails, day use cabanas, and fishing access points. The project is currently out for bid with an estimated completion date Summer 2023.

Task 1: Preliminary Design & Schematic Design 9/2021-3/2022	Task 2: Final Design Documents 4/2022-6/2022	Task 3: Bidding Assistance & Procurement 6/2022-7/2022	Task 4: Construction Management 7/2021-5/2023

RELEVANT PROJECT
experience

Responsibilities	Ensign	Horrocks	MGB+A	Spectrum	RG&B	CCC
Pineview Loop Trail East-Side (Pelican Beach to Spring Creek)	✓					
Eden to Wolf Peak Mixed-Use Trail - 1.6 miles	✓					
Sand Hollow, Quail Creek, Gunlock State Parks Upgrade		✓		✓		
Willard Bay State Park	✓	✓		✓	✓	
Deer Creek State Park		✓	✓	✓		
Utahraptor State Park		✓		✓		
Green River State Park	✓		✓			✓
Dead Horse Point State Park				✓		
Goblin Valley State Park	✓		✓			✓
Wasatch Mountain State Park		✓		✓	✓	
Soldier Hollow State Park		✓				✓
Antelope Island New Bridger Bay Campround	✓		✓			✓
Tibble Fork and Dry Creek Day Use Areas and Dam Reconstruction		✓			✓	
Six Parks Environmental Studies		✓				
Antelope Island White Rock Bay Campground	✓		✓			✓
Rock Port State Park Day Use Area			✓			

STATE PARKS
project team



OVERALL goals

Our overall suggested goals to the proposed site designs and construction documents is comprised of three main goals:

1. Utilize the Pineview Reservoir Recreation Complex Build Environmental Image Guide (BEIG) as design guidelines for USDA Forest Service recreation facilities and improvements around Pineview Reservoir.
    a. Analyze topography to minimize land disturbance, balance cut and fill.

2. Work with existing landscape and topographic conditions to fit the new road improvements into the terrain and natural setting.
    a. Analyze topography to minimize land and existing vegetation disturbance, balance cut and fill.
    b. Utilize restoration technologies to restore disturbed areas quickly.
        i. Wood straw mulch applied to seeded areas creates a highly effective wind and water erosion control. The wood straw mulch allows seeds to germinate and mature. It eventually turns gray and decomposes over time. It can be walked on and driven over.
        ii. Weathering stain product applied to disturbed rock areas. The solution, once applied, reacts with sun and oxygen to produce a natural looking weathered patina. This approach reduces the visual effect of any soil disturbance and helps visually integrate the project into the existing view-shed.
    c. Collect and stockpile Lichen covered boulders at the project site to reuse for slope retainage or simply place them in disturbed areas.

3. Focus the design on the user experience and connect the user to the landscape surrounding the reservoir following BEIG principals.
    a. Create a comfortable, well designed improvements which visitors will talk about and want to return to.
        i. Utilize the available area to create space and buffers between day use amenities.
        ii. Balance quantity of improvements with quality and available budget.
    b. Orient the day use amenities towards desirable views, utilize topography to preserve open views.
    c. Create a trailhead connection to the existing trail system and include map kiosks and wayfinding signage.

4. Conduct a half day workshop with Weber County and Forest Service officials to verify the existing concepts work with constraints mapping (BEIG) principals.
    a. Adjust concepts as needed during this workshop and receive input.
    b. Show precedent images of a variety of available site elements (picnic pavilions, tables, benches, trash receptacles etc.) to insure a consistent materials palette for all recreation areas.
    c. Formalize palette into an amenity selection guide for suture improvements.

ENSIGN
THE STANDARD IN ENGINEERING

TAB 2
TECHNICAL CAPABILITY (APPROACH)

PROJECT MANAGEMENT approach

SCOPE CONTROL PLAN

Ensign will apply our extensive experience leading projects with multi-firm teams. Horrocks, MGB+A, Spectrum, RG&B, and CCC will provide design expertise and management support to ensure a successful project with Weber County and the US Forest Service.

We recognize the importance of how site designs and construction documents are incorporated into the overall project. To stream line the site design and construction documents our team has developed our scope control plan, budget control plan, and schedule control plan. Our team will utilize and build upon the extensive work already completed on the concept plans and BEIG.

Scope creep can lead to budget issues. Sometimes, a stakeholder may want to add items not originally included in the project cost estimate. Other times, it is because the original concept plan failed to scope everything required for the facility to operate correctly. Several of these additions can quickly lead to over design and higher construction cost. ***Ensign follows a formal process to avoid scope creep and, as a result, maximizes the design within the budget to provide the best value for the project.*** Our general plan for scope control consists of the following:

1. Identify and work with all Stakeholders during the negotiation phase of the project to define tasks, allot specific hours to tasks, and include assumptions and deliverables for each task.
2. Review the schedule with Stakeholders and the project team for completion of the project tasks while allowing adequate review time by Weber County, US Forest Service, and permitting jurisdictions.
3. Internal resources and sub-conultants will be properly managed allowing tasks to be completed as defined in our team's proposal and staying focused on the proposed project schedule.
4. Create and maintain a decision log that tracks the decisions of the project and who made the decision.
5. Communication is key. Ensign will utilize frequent communication through the entire project outlining email, phone call, video conference calls, and in-person meetings. Our team will coordinate with Weber County and the US Forest Service if requests are made during design outside of the scope of work. Our team will work to avoid need for change orders by providing creative and cost effective solutions to design challenges, or modifying our existing scope tasks to accommodate additional tasks.

The ***Scope Control Plan will be the guiding document to keep the project team on the scoped task items.*** A major component of the scope control plan is the schedule control plan structure. Ensign has already begun creating the schedule control plan for this project. The schedule control plan structure provided on **Page 12** shows the tasks required that are anticipated in the design of this project.

PROJECT MANAGEMENT approach

As illustrated by the Schedule Control Plan, **Page 10**, Ensign will utilize the traditional Design Development Documents (30% to 50% Design), Pre-construction Documents (95% Design), and Construction Documents (100% Design) phases submittal process, as specified in the RFP, to maintain synergy and forward momentum on this project.

PRIME CONSULTANT MANAGEMENT OF PROJECT TASKS

- Ensign will be the prime consultant on the project and will manage the project and the team members. As the prime consultant we will manage subconsultants, coordinate designs, compile project documents, coordinate meetings, provide meeting minutes, and prepare project specifications.
- Topographic survey and utility locates for each site will be provided by Ensign. Our survey crew has completed topographic survey for numerous similar Utah State Park projects allowing us to be efficient and effective. The survey will establish a base dataset for our other team members to utilize for design.
- A portion of the civil design for the projects will be provided by Ensign. Refer to the **Division of Work between Team Members** on which projects Ensign will provide civil design.
- Structural design will be provided by Ensign for project items such as the boardwalk and dock anchorage at the Port Ramp area, and foundations for the prefabricated buildings.

DIVISION OF WORK BETWEEN TEAM MEMBERS

- Ensign will be responsible for the design of the New Point, Pelican-Quist, and Spring Creek areas. Ensign has extensive experience with recreation projects. Our team understands the design and delivery expectations for this type of work to ensure it is successful.
- Horrocks will be responsible for the design of the Pineview Trailhead and Point Ramp areas. With their extensive traffic, highway, and street experience and recent design experience on the Willard Bay State Park entry reconfiguration, their knowledge is second to none.
- Traffic Studies and Environmental, wetland delineations, will be provided by Horrocks. Horrocks is well known for their extensive traffic engineering experience, expertise, and relationships with UDOT. Horrocks environmental group has also completed wetland delineations and environmental studies for a large majority of the Utah State Park projects in recent years.
- MGB+A has worked with our team on numerous other Utah State Park projects and will provide initial design development designs and landscape architect services.
- Geotechnical investigations are provided by RB&G and they have been on other similar projects with our group recently.

location	project team
New Point	ENSIGN
Pelican Beach-Quist	ENSIGN
Spring Creek	ENSIGN
Pineview Trailhead	HORROCKS
Port Ramp	HORROCKS

PROJECT MANAGEMENT approach

- Electrical design will be provided by Spectrum. Our team has worked with Spectrum on other Utah State project and numerous projects throughout the years.
- CCC provides cost estimates on the project. They are connected into the construction industry and have also been instrumental on other Utah State Park projects with up to date cost estimates.

BUDGET CONTROL PLAN

There has never been a more difficult time than now for controlling construction budgets. Because of this, ***we propose to submit a construction cost estimate to Weber County at Concept, Design Development Documents (30% to 50% Design), Pre-construction Documents (95% Design), and Construction Documents (100% Design) phases to monitor and control budgets.***

To accurately provide the construction cost estimate, Ensign has included Construction Control Corporation (CCC) to the project team to assist with cost control. If the estimates show the project is trending over budget prior to any design phase or bidding, Ensign will involve Stakeholders in conversations of value engineering components to reduce project costs. It is better to find this out early in the design process so adjustments can be made to maintain project goals while reducing construction costs. This process will assist in determining the project base bid items and alternates.

Ensign has established QA/QC procedures and our design team has/will utilize Bluebeam Sessions for our internal design team document, drawings, and specifications review. PDF documents are on the “cloud” allowing the design team to redline documents and see comments in real time. This tool provides collaborative review of drawings minimizing change orders in construction resulting from design and bid schedule errors and ommissions.

SCHEDULE CONTROL PLAN

We anticipate work to be bid in one bid package for the project. The preliminary project schedule includes timelines for each task. A brief explanation has been provided for each task. The wetlands delineations, traffic studies, topographic/boundary survey, and geotechnical investigations will be complete before winter if Ensign is under contract by the middle of September. Our detailed project schedule, Page 18, is anticipated to begin construction in May or June of 2023.

Task 1: Design Documents	Task 2: Bidding Phase Services

PROJECT MANAGEMENT approach

Task 1: Design Development Documents

1.1 Design Development Documents (30% Design)

This phase will begin with the kick-off meeting with the Design team, Weber County, US Forest Service and Stakeholders. We will review site constraints, confirming the design scope for the project. Design Development documents (30%) takes into account site and space constraints, what Weber County, US Forest Service, UDOT and Stakeholders are all envisioning and ideas the team brings to the table. To develop design development drawings, our team will build upon the already prepared site concept plans and BEIG completed by the US Forest Service. These drawings will be reviewed with markup and input from the Stakeholders and design team in an in-person half day workshop.

During this phase, basic design information will be gathered, and the topographic/boundary survey, geotechnical investigation, and wetlands delineations will be completed since these items will have an impact on establishing the site layouts, improvement alternatives, and the design development design, which will then be agreed upon by the design team to carry forward into the 50% Development Documents phase. A preliminary construction cost estimate will be generated to provide a better understanding of the rough order of magnitude (ROM) project costs.

Task 1.1 Objectives

1. Familiarize team with sites.
2. Create summary scope of work.
3. Create project basis of design and standards based on US Forest Service site concept plans and BEIG.
4. Design Development Drawings
5. Discussion and coordination with stakeholders.
6. Preliminary Construction Cost Estimate
7. Evaluate site layout alternatives and recommend the best ones.
8. Establish permitting requirements.

Task 1.1 Deliverables

1. Kickoff Half-Day Workshop Meeting Minutes
2. List of required improvements
3. Topographic/Boundary and utility survey.
4. Project basis of design and standards utilizing BEIG
5. Geotechnical investigation report.
6. Traffic Studies
7. Wetlands Delineation Report
8. Preliminary Project Schedule
9. Preliminary Construction Cost Estimate
10. Design Development Drawings

Task 1.1 Meetings

1. Kickoff meeting - Obtain background information.
2. Half-Day Workshop: Review project basis of design and standards, review alternatives,review preliminary construction cost estimates, discussions and gather input from Weber County, US Forest Service, and Stakeholders

PROJECT MANAGEMENT approach

1.2 Design Development Documents Phase (50% Design)

The 50% design document phase follows and builds on the 30% design development drawings and will focus on analysis of constructibility, budget considerations and modifications, and preferred equipment and materials needed to build the project during this stage. Also, during this stage permit requirements should be considered and value engineering if budget constraints are apparent. During the 50% DD stage, the overall project plan set is created. General notes and details are included in the drawing set and design elements requiring team input are identified. These items are addressed during a review meeting with the project team and the updated construction cost estimate and project schedule are also reviewed.

1.3 Pre-Construction Documents Phase (95% Design)

The 95% design document phase continues from 50% DDs and creates drawings and specifications for submittal to permitting jurisdictions. A team meeting will be held with the project team before these submittals to discuss any potential final changes to design so they can be incorporated into the project documents submitted for permitting and code review.

1.4 Construction Documents Phase (100% Design)

Construction Documents will include any changes required by permitting and code review. The project manual is included in this subtask.

Task 1.2-1.4 Objectives

1. Complete final design documents.
2. Discussion and coordination with stakeholders.
3. Update construction cost estimate.
4. Submit to permitting jurisdictions and incorporate review comments into construction documents.
5. Obtain Permit Approvals
6. Create Construction Documents
7. Determine project base bid and alternates for bid schedule.

Task 1.2-1.4 Deliverables

1. Bi-Weekly project updates via meeting minutes.
2. Review meetings during 30% - 50%, and 95% and 100% design with above mentioned meeting minutes. Post responses prior with copies of these comments for distribution.
3. 30%-50%, 95%, and 100% drawings, design analysis, specifications, construction cost estimates, and project schedule updates printed and electronic as specified in RFP.

Task 1.2-1.4 Meetings

1. Conduct Bi-Weekly Progress Meetings: Review project design, review construction costs estimate, discussion with stakeholders, Weber County, and US Forest Service.
2. Conduct Review Meetings during 30%-50%, 95%, and 100% design with above mentioned meeting minutes.

PROJECT MANAGEMENT approach

Task 2: Bidding Phase Service

Task 2 Objectives
1. Bidding assistance

Task 2 Deliverables
1. Addenda, as required

2.1 Bidding

Bidding assistance is provided under this task. Bidding assistance includes responding to bidding questions.

In the Appendix Section, we have included several construction design sheets from previous park projects, summarized on pages 5 and 6, so you can review our technical capabilities for yourself. We are also open to talking with you in more detail regarding these sheets or providing additional drawings.

RISKS IDENTIFICATION AND MITIGATION PLANS

Based on the project improvements listed in the RFP, our design team's sites visit, and our previous project experiences, the following are potential risks and mitigation plans.

Risk: Wetland Encroachment and Wetland Delineation Schedule
Mitigation: Delineation of jurisdictional wetlands within each site location according to jurisdictional wetland protocols by Army Corps of Engineers prior to design. These wetland delineations along with defined buffers will assist in design to avoid any impacts to jurisdictional wetlands. We are quickly approaching the end of field work season. If the delineation is not completed this fall it could substantially delay the overall project schedule. Our team has field technicians ready to perform the delineation as soon as notice to proceed is provided.

Risk: Impact Existing Vegetation and Natural Beauty
Mitigation: Survey existing trees and topography. Preserve established and healthy trees and vegetation and integrate improvements around them.

Risk: Traffic Impact on Highway 158 and 700 East
Mitigation: Conduct traffic studies and install appropriate length deceleration/ acceleration lanes for recreational vehicle traffic. Since the season for Pineview Reservoir is typically May 1st through September 20th, our design team's approach would be to complete traffic counts during Fall 2022, extrapolate that data based on visitation numbers from the concessionaire, and then verify these numbers the following year during the peak season before the project is complete.

PROJECT MANAGEMENT
approach

Risk: UDOT Coordination for Improvements on SR-158
Mitigation: The UDOT permitting process and design standards can be a concern from a scheduling and budget standpoint on any project. Our team has significant UDOT experience and has developed relationships with the resident engineers in this area that will allow us to facilitate early engagement with UDOT on the project to understand their requirements and how we can best team with them to design, permit, and fund the improvements on the state highway.

Risk: Boat Ramp Repair/Repave Scheduling and Permitting
Mitigation: Depending on water levels and time of year, the project will need a USACE permit to temporarily dam off the boat ramp, potentially dewater, and complete construction. This process also will need to consider visitors and peak use times. Our team will work with the USFS/Weber County to outline a detailed schedule considering permitting requirements, and use patterns to make an informed decision about the construction timeline for this aspect.

Risk: Camping in All Areas
Mitigation: Signs to designate camping areas and define the actionable limits of law enforcement.

Risk: Ignoring Existing Site Concept Plans and Pineview Reservoir Recreation Complex Built Environment Image Guide (BEIG)
Mitigation: Incorporate the BEIG principals and site concept plans in selecting program elements and integrating improvements into the natural landscape.

Risk: Pineview Loop Path Disconnected
Mitigation: Extend path connecting to each recreation area as much as budget allows. Create a phased plan for path extension in the future.

Risk: Use Existing Concept Plans without Vetting Other Alternatives
Mitigation: Prepare alternatives with stakeholders and project team input in a collaborative workshop to integrate BEIG principals, arriving at best design alternative(s).

PROJECT MANAGEMENT
approach

Risk: Delays of Electrical Equipment

Mitigation: From current and past experiences, electrical equipment continues to be delayed from manufacturers. We suggest using standard USFS electrical transformers (lead time is four months vs. 12 months) ordering these at the start of the project to prevent delays.

Risk: Building Material Consistency and Quality

Mitigation: Review all program elements with stakeholders and project team for consistency (as recommended by BEIG). Understand types of materials that will withstand the demands of the users and elements. Review and discuss materials with stakeholders and implement at each recreation area to select the most durable, proven & sustainable materials that falls within project budget.

Risk: Prefabricated Structures and Building Materials Delivery

Mitigation: Due to recent shortages of materials there have been long lead times on the prefabricated structures and other building materials. The team will look at other alternatives to the prefabricated structures and building materials, which may include structures built on-site or ordering the structures/materials earlier in the project.

VALUE ideas

VALUE ADDED IDEAS

Electrical: Understanding of the intended operational use of the areas and the equipment it will contain is important for troubleshooting and addressing potential roadblocks, such as delays due to coordination with utility companies. Staying in front of this allows us to anticipate and plan for measures to avoid unnecessary cost and schedule impacts.

Pedestrian Underpass at Pineview Trailhead: Although this element is a future improvement and not included in our current scope of work, Members of our team have worked on various underpasses in the last 3-5 years. We have various estimates, actual construction costs, and lessons learned that we can share with the USFS and Weber County to help guide the design leading up to the future underpass, outline funding options for the underpass itself, and provide guidelines moving forward.

Reuse of Existing Asphalt: Our team recently completed a similar project at Willard Bay State Park. In the project we gave the contractor the option to remove and recycle existing asphalt for reuse in proposed gravel day use parking areas. This same option would allow the USFS and Weber County to have a suitable parking surface for new day use areas, while also allowing for new pavement in some of the areas that are showing wear.

ENSIGN
THE STANDARD IN ENGINEERING

TAB 3
QUALIFICATIONS AND EXPERTISE OF STAFF

YOUR committed team

OVERALL PROJECT TEAM EXPERIENCE

From visiting the project areas and recreating at Pineview at times, our team is **familiar with the project upgrades needed.** The team we have selected consists of individuals who have successfully completed projects together at other Utah state parks and national parks. We understand each other and we work together smoothly and efficiently to reach the goals of the client while staying within a budget. Some examples of related experience comes from the following projects: ***New Bridger Bay Campground and the White Rock Bay Campground, both on Antelope Island, and the new campground at Willard Bay State Park.***

ENSIGN ENGINEERING AND LAND SURVEYING (SITE CIVIL, STRUCTURAL AND SURVEY)

Robert Rousselle, PE, Project Manager, Utah #7885569-2202 ~ Robert has 17 years of experience with municipal improvement projects and all aspects of water resources. He works on projects starting at the funding stage all the way through planning, design and construction. His primary responsibilities are funding, permitting, design, construction documents and construction management for any given project. Robert's experience comes from ***Antelope Island New Bridger Bay and White Rock Campgrounds, and Willard Bay State Park.***

Koby Morgan, PE, Principal in Charge, Utah #5567061-2202 ~ Koby has 19 years of experience designing site development and land improvement projects. He has a broad range of experience related to civil engineering design of public projects. This work often consists of coordination with governmental entities, including DFCM, school districts, higher education facilities, and municipalities. He is experienced in the design and development of pressurized culinary and secondary water systems, site grading plans, sanitary sewer design, and storm drainage design. For this project, Koby will support Robert and provide QA/QC.

Conor Dunkel, PE, Design Engineer, Utah #11026834-2202 ~ Conor has seven years of experience in civil engineering including transportation and water resources. He has worked on project designs for local municipality potable water systems, UDOT highway design and construction cost index, as well as residential and commercial developments. His additional responsibilities include water demand calculations, storm drain master plans, and GIS data analysis.

YOUR committed team

Cody Santos SE, Structural Project Manager, Utah #9062337-2203~ Cody has over 14 years of structural design and construction experience including multi-family structures, churches, school facilities, water tanks, concrete vaults and pre-engineered steel building foundations using concrete, steel, masonry, and wood building materials. Cody's structural experience in the Pineview area comes from wok on the equestrian/pedestrian bridge on the Eden to Wold Creek Project, north of Pineview. His state parks experience comes with completing structural calculations and design for restroom buildings, entry booths, and garbage enclosures at ***Antelope Island's New Bridger Bay and White Rock Campgrounds, and Willard Bay State Park.***

Trent Williams, Survey Project Manager, Utah #8034679~ Trent's experience is vast, including daily field crew coordination, right-of-way surveys, ALTA, Boundary and Topographic Surveys, High Definition Scanning and utilizing UAS (drones) to conduct aerial surveys. He also manages civil design projects which helps him understand the challenges of civil design and how a complete survey drawing makes the design process smoother. His state park experience comes from surveying ***Antelope Island for the New Bridger Bay Campground, White Rock Bay Campground, and the Visitor's Center.***

HORROCKS (SITE CIVIL, TRANSPORTATION, ENVIRONMENTAL)

Zach Scott, PLA, Utah #10448786 ~ Zach has 12 years of experience with trail and site planning work. He has worked and coordinated with State Park staff throughout Utah on projects ranging from campgrounds, trail master plans, day use facilities, and parking/circulation studies. He been instrumental on a wide variety of projects including access management plans, trail master plans, regional park master conceptual designs and construction documents, trail feasibility studies, UDOT aesthetic plans, and local government park and recreation improvement plans. Park experience is from ***Willard Bay State Park Upgrades; Sand Hollow, Quail, and Gunlock State Parks Upgrades; and Utah Raptor State Park Programming and AE Design.***

Trevor Price, PE, Utah #9803098 ~ With nine years of experience, Trevor designs and manages infrastructure projects for state and federal institutions, municipal and industrial clients, and residential land developers. His experience includes roadway design, parking lot redesign, site grading design, storm drain modeling and design, retention and detention basins design, hydraulic and hydrologic modeling. Trevor has served as an engineer on civil site development projects involving complete site grading, sidewalk, curb and gutter, stairs, ADA parking, pavement evaluation, full-depth asphalt rehabilitation, crack seal, and asphalt overlay, utilities, and permitting. ***Willard Bay State Park Upgrades; Sand Hollow, Quail, and Gunlock State Parks Upgrades; and Utah Raptor State Park Programming and AE Design.***

YOUR committed team

Kevin Croshaw, PE, Utah #10484815 ~ Kevin has more than eight years of experience in transportation engineering and design. His project experience includes roadway design, traffic engineering, traffic control, traffic studies, transportation master planning, and traffic modeling. He is familiar with local and national standards used for design and construction such as American Public Works Association (APWA), and UDOT. Some of his experience comes from the following projects: ***Blue Vista Hills-Bear Lake Traffic Impact Study in Garden City, PRWRC Plan-EIS for Upper Price River Watershed, Ogden City's 26th Street Reconstruction, and Tremonton City Traffic Master Plan.***

Chuck Easton, MA, RPA, Utah #15314 ~ Chuck has 26 years of experience working with federal and state agencies, municipalities, and transit. Chuck expanded his scope of services to include specialization in National Environmental Policy Act (NEPA), and Section 404 of the Clean Water Act. He has served as Field Technician, Field Director, Manager, and Principal on cultural resource surveys, wetland delineations and permitting projects, traffic noise analyses (on both highway and air traffic), and on Threatened & Endangered Species surveys and reports. He has managed and assisted with EISs; written and managed numerous EAs, hundreds of Categorical Exclusions, and several Section 4(f) analyses. As a former UDOT Region 2 Environmental Lead, Chuck understands the UDOT project development process, UDOT's local government process, and in the way they comply with NEPA. He has completed environmental work at ***Sand Hollow, Quail, and Gunlock State Parks Upgrades, Raptor State Park, Utah Lake Beach Park, for Wasatch County Trail Plan, Wasatch County Railroad Feasibility Study, Ashley National Forest Cultural Resources Survey.***

MGB+A (LANDSCAPE ARCHITECTURE and SITE PLANNING)

Jay Bollwinkel, ASLA, PLA, AICP, Utah #108570-5301~ Jay manages complex projects from marketing, client relations and contract negotiation, through the design and construction document phase. He has participated in public workshops directing neighborhood groups and governmental agencies through complicated public input processes relating to controversial projects. Jay's state park experience stems from the following projects: ***Antelope Island's New Bridger Bay and White Rock Bay Campgrounds; Goblin Valley State Park Campground; Green River State Park Campground; and Bear Lake State Park Boat Ramp, just to name a few.***

Greg Boudrero, ASLA, PLA, Utah #7456904-5301~ Greg grew up in Weber County where he enjoyed riding his bike around the Pineview Recreation area. He is an avid rider, and is excited for the opportunity to plan and connect trails for this area. He enjoys collaborating with multi-disciplinary teams and understands the best solutions come from an open design process. Some of Greg's state park and trails experience comes from working on ***Antelope Island's White Rock Bay Campground; Green River State Park Campground; Ogden Cyclo-Cross and Water Sports Park.***

YOUR committed team

Bret Nielsen, ASLA ~ Bret has a true passion for design and developing projects that will last for generations. His work includes public parks, recreation sites, and master planning. He pays attention to details and uses with ease, several different design software, and multiple social and professional platforms to create visual aids. He is passionate in creating spaces that can enhance, bring enjoyment and satisfaction to the community. His state park experience is from some of the following projects: ***Antelope Island White Rock Bay Campground; Green River State Park Campground, Deer Creek Campground, and Rock Port Campground.***

SPECTRUM ENGINEERING (ELECTRICAL)

Peter Johansen, PE, LEED AP BD+C, Utah #185978-2202 ~ Peter has 24 years of electrical engineering experience. He has a vast project history including dozens of government projects for federal, state and municipal agencies. He has a passion for outdoor activities and enjoys projects that provide for additional outdoor recreational opportunities. He has been the principal-in-charge or electrical engineer for many of the company's recreational projects such as ***Dead Horse Point State Park New Campground; Sand Hollow State Park OHV Campground; Yuba State Park - Painted Rock Campground; and Deer Creek State Park Campground Improvements.***

Jason Worthen, PE, LEED AP BD+C, Utah #11783731-2202 ~ Jason is an Associate Principal Electrical Engineer with Spectrum Engineers and has 10 years of electrical engineering experience. His ample project experience includes dozens of government projects for federal, state, county and city agencies***. Willard Bay State Park Campground Development; Dead Horse Point State Park New Campground; Scofield State Park Madsen Bay Restroom and Septic System; Utah Raptor State Park Campground Development; and Deer Creek State Park Campground Improvements.***

RB&G ENGINEERING (GEOTECHNICAL)

Jake Price, PE, Geotechnical/Civil Engineer Utah #7897748-2202 ~ Jake has 16 years experience in engineering and has participated in environmental assessments for RB&G. His primary functions include geotechnical design, field management for geotechnical investigations, and geotechnical instrumentation and monitoring and construction. His areas of expertise include soil mechanics, foundation engineering, construction engineering, pavement evaluation, seismic evaluation, geotechnical instrumentation, and slope stability. His realted experience comes from working on projects at: ***Willard Bay State Park - Entrance Reconfiguration, Campground and Day Use Improvements; Soldier Hollow Campground; Juniper Canyon Retention Basins; and Tibble Fork Dam Rehabilitation.***

ABOUT OUR committed team

CCC (COST ESTIMATING)

Kris Larson, CPE, Certified Professional Estimator ~ Kris as 21 years of experience of efficiently created accurate project estimates. He is able to complete this task for all stages of design including all building systems. His recreational park experience has been gained from work at ***Soldier Hollow Campground expansion, Antelope Island Visitors Center, and Great Salt Lake Nature Center.***

TAB 4
REFERENCES

REFERENCES TO
confirm ability to perform

REFERENCES

We urge you to call our references and discuss our abilities related to providing our ability to respond and provide design and consultant services in a timely manner. Below are relevant and recent references

Name: Utah Division of Facilities Construction and Management (DFCM) **Reference For:** Ensign and MGB+A
Address: 4315 S 2700 W, FL 3, Taylorsville, UT 84129-2128
Point of Contact: Guy Wayman, DFCM PM
Phone Number: 801-518-0878

Name: Antelope Island State Park **Reference For:** Ensign and MGB+A
Address: 4528 W 1700 S, Syracuse, UT 84075
Point of Contact: Jeremy Shaw, Park Manager
Phone Number: 385-238-8511

Name: UDOT Region 1 **Reference For:** Horrocks
Address: 166 Southwell St, Ogden, UT 84404
Point of Contact: David Alger, UDOT R1 Permits Engineer
Phone Number: 801-620-1654

Name: Dominion Energy **Reference For:** Ensign
Address: 1140 W 200 S, Salt Lake City, UT 84104
Point of Contact: Will Radford
Phone Number: 801-556-5084

Name: Utah Division of Facilities Construction and Management (DFCM) **Reference For:** Ensign
Address: 4315 S 2700 W, FL 3, Taylorsville, UT 84129-2128
Point of Contact: Lucas Davis, DFCM PM
Phone Number: 801-842-8210

Name: Layton City Parks **Reference For:** Horrocks and Ensign
Address: 437 N. Wasatch Dr., Layton, UT 84041
Point of Contact: JoEllen Grandy, Planner
Phone Number: 801-336-3900

Name: Park City Engineering **Reference For:** Horrocks
Address: 445 Marsac Ave, Park City, UT
Point of Contact: Gabriel Shields, PE, Transportation Engineer
Phone Number: 385-315-9428

ENSIGN
THE STANDARD IN ENGINEERING

APPENDIX
SAMPLE CONSTRUCTION DRAWINGS

(FROM THE THREE HIGHLIGHTED AND RELEVANT PROJECT EXPERIENCES IN TAB 1)

EXHIBIT B - COST PROPOSAL

ENSIGN
THE STANDARD IN ENGINEERING

Structural Engineering
Municipal Services
Civil Engineering
Land Surveying

September 28, 2022

Weber County Purchasing Department
2380 Washington Blvd, Suite #320
Ogden, UT, 84401
Originally Submitted though SciQuest (U3P) Website

RE: REQUEST FOR PROPOSAL – 2022 PINEVIEW RECREATION SITES REDESIGN
PINEVIEW RESERVOIR RECREATION COMPLEX, OGDEN RANGER DISTRICT, WEBER COUNTY, UTAH

COST PROPOSAL (REV. 1)
SOLICITATION # 22-200

Dear Review Committee and Purchasing Department,

Ensign Engineering and Land Surveying (Ensign) and our dedicated team of consultants have analyzed the requested scope of work in the RFP, updated based on our kick-off meeting on September 22, 2022, and are submitting our cost proposal for the above-mentioned project. Per the RFP, our cost proposal was submitted separately from our proposal.

To better define the scope of work to allow the development of a cost proposal, the following assumptions have been made and were confirmed in our kick-off meeting.

Cost Assumptions

1. Project Manager and Design Lead
    a. Ensign is the Project Manager and Design Lead for the Project.
2. Meetings
    a. As outlined in the RFP the following meetings will be held:
        i. Two-hour project kick-off meeting.
        ii. Half-day workshop to confirm scope of work and site improvements.
        iii. Review meetings held in Ogden, Utah, or virtually for 30%-50% Design, 95% Design, and 100% Design Phases.
        iv. Bi-weekly meetings will be held virtually (Total 4 estimated video conference calls) for 30%-50% Design and 95% Design Phases.
3. Civil Design
    a. Ensign to provide civil design for New Point, Pelican Beach-Quist, and Spring Creek Sites.
    b. Horrocks to provide civil design for Pineview Trailhead and Port Ramp Sites.
        i. Based on budget and design constraints it is assumed that the pedestrian underpass is part of a future phase. Based on the kick-off meeting, we have included some Ensign structural time and Horrocks has included time in their proposal to provide a conceptual level design and a cost estimate for the underpass. Our team also had dedicated time in our proposal to identify potential funding sources. These documents will assist Weber County and the

US Forest Service to pursue funding opportunities. Horrocks will ensure that trail connections to the proposed underpass will accommodate a future design and will provide recommendations for the underpass, but the final design of the underpass is not included in this scope of work.

   c. Wet utilities only are included in Ensign and Horrock's civil design. It is assumed that no new sources or treatment facilities will be included that improvements will consist of relocating or rerouting existing utilities and providing some new connections at host sites and the dump station.
   d. Lift station design is excluded from site designs. Based on our conversation, all sewer will be gravity flow to septic holding tanks or contained within vault restrooms.
4. Subsurface utility excavation is excluded from this scope of work.
5. Architectural Design
   a. The buildings will be prefabricated with minor aesthetic variations based on the Built Environment Image Guide (BEIG) as answered in the Q&A session of the RFP. Architectural design is not included in the cost proposal, but can be added if requested.
6. Structural Design
   a. Highway Trail Underpass is not included in the structural design scope of work, see 3.b.i for assumptions. However, we will provide conceptual design for the underpass and drawings so a cost estimate can be completed so Weber County and US Forest Service can pursue funding.
   b. Boat ramp slab recommendations for your pavement cross sections.
   c. (2) fee buildings. Conventional foundations only.
   d. (2) covered boat cleaning stations. Conventional foundations only.
   e. Concessionaire building. Conventional foundations only.
   f. Concessionaire admin building. Conventional foundations only.
   g. Boat ramp monitoring station. Conventional foundations only.
   h. Anchorage for proprietary floating docks. Dock designs will be per the dock manufacturer. Structural scope entails the foundations and points of anchorage to tie the floating dock to.
   i. All buildings are assumed to be prefab buildings based on the RFP response and only foundations designs are needed. All concrete elements and concrete foundations will be mild reinforced concrete with most foundations being conventional spread footings bearing on undisturbed native soils or compacted structural fills as determined by the Geotechnical Engineer of Record. There are a few deep foundations anticipated on the elevated board walk and potentially on the Dock anchorage for the proprietary floating dock. It is likely that the deep foundations will be Helical Piers or similar per the recommendations of the Geotechnical Engineer.
   j. Structural designs will be performed to meet the 2018 IBC and 2020 AASHTO LRFD Bridge Design Specifications 9th Edition.
   k. Pavilions (Shade Shelters) for picnic tables and Double Vault Toilets are assumed to be deferred submittals with foundation design and structural calculations provided by the manufacturer or supplier.
7. Landscape Design
   a. In addition to landscape design drawings and vegetative management plans, MGB+A will provide site analysis, initial design development drawings for each site, and a half day workshop. Even though not specified in the RFP, we've included this half day workshop to confirm scope of work and site improvements with Project Stakeholders.

8. Wetlands Delineation
    a. After our September 22nd, 2022 kick-off meeting, Zach Maughan reached out to Trevor with Horrocks and directed Horrocks to remove the wetlands delineation from the project scope. The US Forest Service's hydrogeologist/wetland specialist would weigh in throughout design and did not anticipate much, if any, impact to the wetlands. The US Forest Service would take care of any wetlands internally if it was required.
9. Traffic Studies
    a. Horrocks will complete traffic studies for the five (5) sites identified in the RFP.
    b. It is anticipated the traffic studies will be split into two (2) studies shown below.
        i. Pelican and Spring Creek Area
        ii. Port Ramp, Pineview Trailhead, and New Point Area
    c. Horrocks will coordinate with UDOT and the County to determine the peak day to be used for analysis.
    d. Horrocks assumes a UDOT Level II traffic study be completed for the Port Ramp and Pineview Trailhead locations, if a Level III or higher is required it will be completed at an additional fee.
    e. Horrocks will provide a TIS to meet the standards of the County for the Spring Creek and Pelican locations.
    f. Since the peak season for Pineview Reservoir is typically May 1st through September 20th, our design teams' approach is to complete traffic counts fall 2022, extrapolate that data based on visitation numbers from the concessionaire and then verify these numbers the following year during the peak season before the project is complete.
10. Geotechnical Investigations
    a. At each site, the geotechnical investigations include a minimum of one (1) 15-foot boring for small structures and one (1) 6-foot boring for pavement. The Port Ramp area will include one (1) additional 15-foot boring and the Pelican and Spring Creek Day use areas will include one (1) additional 15-foot boring and one (1) additional 6-foot boring at each site. Two (2) additional borings to a depth of 30 feet are provided for the anticipated helical piers at the Port Ramp boardwalk area. This provides an opportunity to complete one (1) boring to 60-feet instead of two (2) at 30-feet if it appears the foundations will need to go deeper than 15 to 20-feet.
    b. Results of the field and laboratory tests will be analyzed and summarized in a written report submitted electronically. Information contained in the report will include:
        i. Geological and Existing Site Conditions
        ii. Subsurface Soil and Water Conditions
        iii. Foundation Considerations and Recommendations
        iv. Site Preparation and Compacted Fill Requirements
        v. Flexible Pavement Design Recommendations
        vi. Results of Field and Laboratory Test
    c. If only one site were to be investigated, the report amount would be $2,500. Two or more sites are $3,700 total for the report.
11. Construction Cost Estimates
    a. Construction cost estimates will be provided at Design Development (30%), Design Development (50%), Pre-construction Documents (95%), and Construction Documents (100%) Design Phases.
    b. Cost estimate will be provided for the concept trail underpass at the Pineview Trailhead by Horrocks.

12. Electrical Design
    a. Assumed electrical design will be provided for Port Ramp site boat decontamination stations, entrance booths, concessionaire building, concessionaire admin building, and host trailer sites.
    b. Exterior lighting design to be provided at Port Ramp site near entrance booths and concessionaire buildings.
    c. Design fee has been included to design power to the fee stations in lieu of solar powered fee stations.
    d. Construction administration services are excluded.
13. Project Documents
    a. Prints of drawings, design analysis, specifications, and preliminary cost estimates will be provided for the 30%-50% Design, 95% Design, and 100% Design Phases as specified in the RFP.
14. Bidding Phase Services
    a. Only response to bidding questions and addenda has been provided for bidding services as requested in the RFP.
    b. Attendance at the pre-bid meeting, abstract summary of all bids received, and award recommendation letter are excluded from our cost proposal, but can be provided if requested.
15. Construction Administration
    a. Construction administration services were not requested in the RFP, so these services have been excluded. This excludes project record drawings. If requested, our team can add these services to our cost proposal.
16. Water Reports
    a. The RFP mentioned that the Contractor shall complete Utah Division of Drinking Water Reports if newly established water sources will be developed at the sites. Since this scope is speculative, this is not included in our cost proposal. If requested, our team can add these services to our cost proposal.
17. Permit Fees
    a. Any required permit fees will be paid directly by Weber County.
18. Old Highway and Fishing Areas
    a. These areas were discussed during our September 22, 2022 kick-off meeting, but since the scope of work of these sites has not yet been determined design fees are not included in our scope. If requested, our team can add these services to our cost proposal via contract amendment at a later date.
19. Scope of Work
    a. All work not specifically identified with the RFP scope of work or kick-off meeting will be handled as a separately negotiated change order.
    b. Additional assumptions and scope of work are listed in individual subconsultant proposals, attached.
    c. Any tasks listed in the scope of work as “Optional” are excluded from the cost proposal at this time.

Cost Proposal

Based on our kick-off meeting and at the request of Weber County and the US Forest Service, our team has provided a more detailed design fee format of our proposals, which still meets the intent of the sample cost proposal format, 5.3_Sample Cost Proposal.pdf, included in the RFP.

Thank you for your time reviewing our cost proposal and for your consideration.

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **OVERALL**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting		6	6							**12**	$1,650			**$1,650**
1.2	Establish Basis of Design			6		8					**14**	$1,600			**$1,600**
1.3	Schematic Design Drawings (30%)		8	24							**32**	$4,120			**$4,120**
1.4	Half Day Workshop (30%)		6	6							**12**	$1,650			**$1,650**
1.5	Design Meeting (Virtual - 1 Total)		3	3							**6**	$825			**$825**
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		1	2	8						**11**	$1,240			**$1,240**
1.7	Horizontal Control Plan		1	2	8						**11**	$1,240			**$1,240**
1.8	Existing Togography and Demolition Plan		8	16	32						**56**	$6,520			**$6,520**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		16	28	40	80					**164**	$18,840			**$18,840**
1.10	Erosion Control Plans		4	6		16					**26**	$3,100			**$3,100**
1.11	Structural Plans		4					28	37	28	**97**	$11,550			**$11,550**
1.12	Details		10	16	16		32				**74**	$8,670			**$8,670**
1.13	Ensign QA/QC	24	16					4			**44**	$7,720			**$7,720**
1.14	DD Project Review Meeting		6	6							**12**	$1,650			**$1,650**
1.15	Update Project Schedule and Estimate of Probable Costs		2	6							**8**	$1,030			**$1,030**
	TASK 1 SUBTOTALS	**24**	**91**	**127**	**104**	**104**	**32**	**32**	**37**	**28**	**579**	**$71,405**			**$71,405**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)		4	8	16						**28**	$3,260			**$3,260**
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		7	7							**14**	$1,925			**$1,925**
2.3	Horizontal Control Plan		2	8	16						**26**	$2,950			**$2,950**
2.4	Existing Togography and Demolition Plan		4	8	16						**28**	$3,260			**$3,260**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		32	60	80	80	80				**332**	$38,160			**$38,160**
2.6	Erosion Control Plans		6	16		24					**46**	$5,490			**$5,490**
2.7	Architectural Plans		8	12							**20**	$2,680			**$2,680**
2.8	Structural Plans		4	12				27	75	47	**165**	$19,025			**$19,025**
2.9	Details		8	24	32		60				**124**	$14,080			**$14,080**
2.10	Ensign QA/QC	32	24					14			**70**	$11,920			**$11,920**
2.11	PD Project Review Meeting		6	6							**12**	$1,650			**$1,650**
2.12	Update Project Schedule and Estimate of Probable Costs		2	6							**8**	$1,030			**$1,030**
2.13	Submit to Applicable Permitting Agencies		12	24							**36**	$4,740			**$4,740**
	TASK 2 SUBTOTALS	**32**	**119**	**191**	**160**	**104**	**140**	**41**	**75**	**47**	**909**	**$110,170**			**$110,170**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **OVERALL**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		12	24	40	24		10	21	10	**141**	$16,340			**$16,340**
3.2	Ensign QA/QC	8	8					4			**20**	$3,360			**$3,360**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		16	20				5	5		**46**	$6,130			**$6,130**
	TASK 3 SUBTOTALS	**8**	**36**	**44**	**40**	**24**		**19**	**26**	**10**	**207**	**$25,830**			**$25,830**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal													$145,455.27	**$145,455.27**
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$36,940.00	**$36,940.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$25,960.00	**$25,960.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$15,340.00	**$15,340.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$11,840.00	**$11,840.00**
													SUB-CONSULTANT SUBTOTAL	**$235,535.27**	**$235,535.27**
	TOTALS	**64**	**246**	**362**	**304**	**232**	**172**	**92**	**138**	**85**	**1695**	**$207,405**		**$235,535.27**	**$442,940.27**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PORT RAMP AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
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9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting		6	6							**12**	$1,650			**$1,650**
1.2	Establish Basis of Design			6		8					**14**	$1,600			**$1,600**
1.3	Schematic Design Drawings (30%)														
1.4	Half Day Workshop (30%)		6	6							**12**	$1,650			**$1,650**
1.5	Design Meeting (Virtual - 1 Total)		3	3							**6**	$825			**$825**
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		1	2	2						**5**	$610			**$610**
1.7	Horizontal Control Plan		1	2	2						**5**	$610			**$610**
1.8	Existing Togography and Demolition Plan		2	3	6						**11**	$1,300			**$1,300**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)														
1.10	Erosion Control Plans														
1.11	Structural Plans		4					18	37	28	**87**	$10,150			**$10,150**
1.12	Details														
1.13	Ensign QA/QC	5	3					4			**12**	$2,000			**$2,000**
1.14	DD Project Review Meeting		6	6							**12**	$1,650			**$1,650**
1.15	Update Project Schedule and Estimate of Probable Costs		2	2							**4**	$550			**$550**
	TASK 1 SUBTOTALS	**5**	**34**	**36**	**10**	**8**		**22**	**37**	**28**	**180**	**$22,595**			**$22,595**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)		4	8	16						**28**	$3,260			**$3,260**
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		2	2							**4**	$550			**$550**
2.3	Horizontal Control Plan		2	2	3						**7**	$865			**$865**
2.4	Existing Togography and Demolition Plan		1	2	3						**6**	$710			**$710**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)														
2.6	Erosion Control Plans														
2.7	Architectural Plans (Coordination to Incorporate Pre-Fab Building/Structures Drawings)		4	6							**10**	$1,340			**$1,340**
2.8	Structural Plans		4	12				27	75	47	**165**	$19,025			**$19,025**
2.9	Details						60				**60**	$6,600			**$6,600**
2.10	Ensign QA/QC	6	5					14			**25**	$3,905			**$3,905**
2.11	PD Project Review Meeting		6	6							**12**	$1,650			**$1,650**
2.12	Update Project Schedule and Estimate of Probable Costs		2	2							**4**	$550			**$550**
2.13	Submit to Applicable Permitting Agencies		2	5							**7**	$910			**$910**
	TASK 2 SUBTOTALS	**6**	**32**	**45**	**22**		**60**	**41**	**75**	**47**	**328**	**$39,365**			**$39,365**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PORT RAMP AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		4	5	8	5		10	21	10	**63**	$7,370			**$7,370**
3.2	Ensign QA/QC	2	2					4			**8**	$1,260			**$1,260**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		3	4				5	5		**17**	$2,195			**$2,195**
	TASK 3 SUBTOTALS	**2**	**9**	**9**	**8**	**5**		**19**	**26**	**10**	**88**	**$10,825**			**$10,825**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal													$88,421.88	**$88,421.88**
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$12,460.00	**$12,460.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$14,335.00	**$14,335.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$5,720.00	**$5,720.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$9,250.00	**$9,250.00**
	SUB-CONSULTANT SUBTOTAL													**$130,186.88**	**$130,186.88**
	TOTALS	**13**	**75**	**90**	**40**	**13**	**60**	**82**	**138**	**85**	**596**	**$72,785**		**$130,186.88**	**$202,971.88**

Note: Horrocks will be predominately preparing these subtasks on this project area. Ensign will be providing project management/coordination. Geotechnical Report and Meetings have been included in the Port Ramp Area.
All project coordination and meeting hours are shown in the Port Ramp area design fee instead of split into the separate areas.

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PORT RAMP AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL													
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting														
1.2	Establish Basis of Design														
1.3	Schematic Design Drawings (30%)														
1.4	Half Day Workshop (30%)														
1.5	Design Meeting (Virtual - 1 Total)														
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index				2						**2**	$210			**$210**
1.7	Horizontal Control Plan				2						**2**	$210			**$210**
1.8	Existing Togography and Demolition Plan		2	3	6						**11**	$1,300			**$1,300**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)														
1.10	Erosion Control Plans														
1.11	Structural Plans							10			**10**	$1,400			**$1,400**
1.12	Details														
1.13	Ensign QA/QC	5	3								**8**	$1,440			**$1,440**
1.14	DD Project Review Meeting														
1.15	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
	TASK 1 SUBTOTALS	**5**	**5**	**4**	**10**			**10**			**34**	**$4,680**			**$4,680**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)														
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		2	2							**4**	$550			**$550**
2.3	Horizontal Control Plan			2	3						**5**	$555			**$555**
2.4	Existing Togography and Demolition Plan		1	2	3						**6**	$710			**$710**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)														
2.6	Erosion Control Plans														
2.7	Architectural Plans (Coordination to Incorporate Pre-Fab Building/Structures Drawings)		1	1.5							**3**	$335			**$335**
2.8	Structural Plans														
2.9	Details														
2.10	Ensign QA/QC	6	5								**11**	$1,945			**$1,945**
2.11	PD Project Review Meeting														
2.12	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
2.13	Submit to Applicable Permitting Agencies		4	5							**9**	$1,220			**$1,220**
	TASK 2 SUBTOTALS	**6**	**13**	**13.5**	**6**						**39**	**$5,435**			**$5,435**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PORT RAMP AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		2	5	8	5					**20**	$2,300			**$2,300**
3.2	Ensign QA/QC	2	2								**4**	$700			**$700**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		3	4							**7**	$945			**$945**
	TASK 3 SUBTOTALS	**2**	**7**	**9**	**8**	**5**					**31**	**$3,945**			**$3,945**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal													$47,288.81	**$47,288.81**
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$7,500.00	**$7,500.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$2,145.00	**$2,145.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$2,210.00	**$2,210.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$370.00	**$370.00**
	SUB-CONSULTANT SUBTOTAL													**$59,513.81**	**$59,513.81**
	TOTALS	**13**	**25**	**26.5**	**24**	**5**		**10**			**103.5**	**$14,060**		**$59,513.81**	**$73,573.81**

Note: Horrocks will be predominately preparing these subtasks on this project area. Ensign will be providing project management/coordination.
All project coordination and meeting hours are shown in the Port Ramp area design fee instead of split into the separate areas.

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PELICAN BEACH AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL													
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting														
1.2	Establish Basis of Design														
1.3	Schematic Design Drawings (30%)		3	8							**11**	$1,425			**$1,425**
1.4	Half Day Workshop (30%)														
1.5	Design Meeting (Virtual - 1 Total)														
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index				1						**1**	$110			**$110**
1.7	Horizontal Control Plan				1						**1**	$110			**$110**
1.8	Existing Togography and Demolition Plan		1	3	7						**11**	$1,250			**$1,250**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		5	9	13	27					**54**	$6,190			**$6,190**
1.10	Erosion Control Plans		1	2		5					**8**	$950			**$950**
1.11	Structural Plans														
1.12	Details		3	5	5		11				**24**	$2,800			**$2,800**
1.13	Ensign QA/QC	5	3								**8**	$1,440			**$1,440**
1.14	DD Project Review Meeting														
1.15	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
	TASK 1 SUBTOTALS	**5**	**16**	**28**	**27**	**32**	**11**				**119**	**$14,395**			**$14,395**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)														
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		1	1							**2**	$275			**$275**
2.3	Horizontal Control Plan			1	3						**4**	$435			**$435**
2.4	Existing Togography and Demolition Plan		1	1	3						**5**	$590			**$590**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		11	20	27	27	27				**112**	$12,880			**$12,880**
2.6	Erosion Control Plans		2	5		8					**15**	$1,790			**$1,790**
2.7	Architectural Plans (Coordination to Incorporate Pre-Fab Building/Structures Drawings)		1	1.5							**3**	$335			**$335**
2.8	Structural Plans														
2.9	Details		3	8	11						**22**	$2,580			**$2,580**
2.10	Ensign QA/QC	7	5								**12**	$2,140			**$2,140**
2.11	PD Project Review Meeting														
2.12	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
2.13	Submit to Applicable Permitting Agencies		2	5							**7**	$910			**$910**
	TASK 2 SUBTOTALS	**7**	**26**	**43.5**	**44**	**35**	**27**				**183**	**$22,055**			**$22,055**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **PELICAN BEACH AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		2	5	8	5					**20**	$2,300			**$2,300**
3.2	Ensign QA/QC	1	1								**2**	$350			**$350**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		3	4							**7**	$945			**$945**
	TASK 3 SUBTOTALS	**1**	**6**	**9**	**8**	**5**					**29**	**$3,595**			**$3,595**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal													$4,872.29	**$4,872.29**
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$4,460.00	**$4,460.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$3,955.00	**$3,955.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$2,860.00	**$2,860.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$740.00	**$740.00**
													SUB-CONSULTANT SUBTOTAL	**$16,887.29**	**$16,887.29**
	TOTALS	**13**	**48**	**80.5**	**79**	**72**	**38**				**330.5**	**$40,045**		**$16,887.29**	**$56,932.29**

All project coordination and meeting hours are shown in the Port Ramp area design fee instead of split into the separate areas.

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **SPRING CREEK AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting														
1.2	Establish Basis of Design														
1.3	Schematic Design Drawings (30%)		3	8							**11**	$1,425			**$1,425**
1.4	Half Day Workshop (30%)														
1.5	Design Meeting (Virtual - 1 Total)														
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index				1						**1**	$110			**$110**
1.7	Horizontal Control Plan				1						**1**	$110			**$110**
1.8	Existing Togography and Demolition Plan		1	3	7						**11**	$1,250			**$1,250**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		5	9	13	27					**54**	$6,190			**$6,190**
1.10	Erosion Control Plans		1	2		5					**8**	$950			**$950**
1.11	Structural Plans														
1.12	Details		3	5	5		11				**24**	$2,800			**$2,800**
1.13	Ensign QA/QC	5	3								**8**	$1,440			**$1,440**
1.14	DD Project Review Meeting														
1.15	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
	TASK 1 SUBTOTALS	**5**	**16**	**28**	**27**	**32**	**11**				**119**	**$14,395**			**$14,395**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)														
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		1	1							**2**	$275			**$275**
2.3	Horizontal Control Plan			1	4						**5**	$540			**$540**
2.4	Existing Togography and Demolition Plan		1	1	3						**5**	$590			**$590**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		11	20	27	27	27				**112**	$12,880			**$12,880**
2.6	Erosion Control Plans		2	5		8					**15**	$1,790			**$1,790**
2.7	Architectural Plans (Coordination to Incorporate Pre-Fab Building/Structures Drawings)		1	1.5							**3**	$335			**$335**
2.8	Structural Plans														
2.9	Details		3	8	11						**22**	$2,580			**$2,580**
2.10	Ensign QA/QC	7	5								**12**	$2,140			**$2,140**
2.11	PD Project Review Meeting														
2.12	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
2.13	Submit to Applicable Permitting Agencies		2	5							**7**	$910			**$910**
	TASK 2 SUBTOTALS	**7**	**26**	**43.5**	**45**	**35**	**27**				**184**	**$22,160**			**$22,160**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **SPRING CREEK AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		2	5	8	5					**20**	$2,300			**$2,300**
3.2	Ensign QA/QC	1	1								**2**	$350			**$350**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		3	4							**7**	$945			**$945**
	TASK 3 SUBTOTALS	**1**	**6**	**9**	**8**	**5**					**29**	**$3,595**			**$3,595**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal													$4,872.29	**$4,872.29**
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$3,920.00	**$3,920.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$3,990.00	**$3,990.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$2,210.00	**$2,210.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$740.00	**$740.00**
													SUB-CONSULTANT SUBTOTAL	**$15,732.29**	**$15,732.29**
	TOTALS	**13**	**48**	**80.5**	**80**	**72**	**38**				**331.5**	**$40,150**		**$15,732.29**	**$55,882.29**

All project coordination and meeting hours are shown in the Port Ramp area design fee instead of split into the separate areas.

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **NEW POINT AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL												
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
1	**Design Development (30-50%)**														
1.1	Kick-off Meeting														
1.2	Establish Basis of Design														
1.3	Schematic Design Drawings (30%)		2	8							**10**	$1,270			**$1,270**
1.4	Half Day Workshop (30%)														
1.5	Design Meeting (Virtual - 1 Total)														
1.6	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index				2						**2**	$210			**$210**
1.7	Horizontal Control Plan				2						**2**	$210			**$210**
1.8	Existing Togography and Demolition Plan		2	4	6						**12**	$1,420			**$1,420**
1.9	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		6	10	14	26					**56**	$6,460			**$6,460**
1.10	Erosion Control Plans		2	2		6					**10**	$1,210			**$1,210**
1.11	Structural Plans														
1.12	Details		4	6	6		10				**26**	$3,070			**$3,070**
1.13	Ensign QA/QC	4	4								**8**	$1,400			**$1,400**
1.14	DD Project Review Meeting														
1.15	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
	TASK 1 SUBTOTALS	**4**	**20**	**31**	**30**	**32**	**10**				**127**	**$15,370**			**$15,370**
2	**Preconstruction Documents (95%)**														
2.1	Bi-Weekly Design Meetings (Virtually - 3 Total)														
2.2	General Sheets (Cover Sheet, General Notes, Abbreviations, and Index		1	1							**2**	$275			**$275**
2.3	Horizontal Control Plan			2	3						**5**	$555			**$555**
2.4	Existing Togography and Demolition Plan			2	4						**6**	$660			**$660**
2.5	Site, Utility, and Grading Plan and Profile Sheets (1-inch=40-feet)		10	20	26	26	26				**108**	$12,400			**$12,400**
2.6	Erosion Control Plans		2	6		8					**16**	$1,910			**$1,910**
2.7	Architectural Plans (Coordination to Incorporate Pre-Fab Building/Structures Drawings)		1	1.5							**3**	$335			**$335**
2.8	Structural Plans														
2.9	Details		2	8	10						**20**	$2,320			**$2,320**
2.10	Ensign QA/QC	6	4								**10**	$1,790			**$1,790**
2.11	PD Project Review Meeting														
2.12	Update Project Schedule and Estimate of Probable Costs			1							**1**	$120			**$120**
2.13	Submit to Applicable Permitting Agencies		2	4							**6**	$790			**$790**
	TASK 2 SUBTOTALS	**6**	**22**	**45.5**	**43**	**34**	**26**				**177**	**$21,155**			**$21,155**

PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

PROJECT DESIGN FEE, PREPARED SEPTEMBER 28, 2022

TASK COST REPORT

Owner: Weber County and US Forest Service

Project: PINEVIEW RECREATION SITES REDESIGN (SOLICITATION # 22-200)

Ensign Project #: N/A

Project Area: **NEW POINT AREA**

PERSONNEL, ROLES, AND HOURLY RATES

1) Koby Morgan, PE, Principal-in-Charge and QA/QC - $195
2) Robert Rousselle, PE, Sr. Project Manager - $155
3) Conor Dunkel, PE, Assistant Project Manager - $120
4) Glenn Offermann, Designer - $105
5) Matthew Sanford, EIT, Design Engineer - $110
6) Tomey Averett, EIT, Design Engineer - $110
7) Cody Santos, PE, Structural PM - $140
8) Quinn Lythgoe, Structural Design Engineer - $110
9) Rodolfo Maligon, Structural BIM Specialist - $105

		LABOR HOURS BY PERSONNEL													
Task No.	Task Description	1 KM $195	2 RR $155	3 CD $120	4 GO $105	5 MS $110	6 TA $110	7 CS $140	8 QL $110	9 RM $105	Total Hours	Labor Charges	Direct Reimbursable Expenses	Sub-consultant Expenses	Totals
3	**Bid Documents (100%)**														
3.1	Finalize Bid Set Drawings, Specifications, and Bid Schedule		2	4	8	4					**18**	$2,070			**$2,070**
3.2	Ensign QA/QC	2	2								**4**	$700			**$700**
3.3	Bidding Assistance (Answer Bidder's Questions and Addenda)		4	4							**8**	$1,100			**$1,100**
	TASK 3 SUBTOTALS	**2**	**8**	**8**	**8**	**4**					**30**	**$3,870**			**$3,870**
	SUB-CONSULTANT EXPENSES														
1	Civil Design, Environmental, and Traffic Studies (Horrocks) - See Subconsultants Proposal														
2	Concepts, Landscape Design, and Vegetation Management Plans (MGB+A) - See Subconsultants Proposal													$8,600.00	**$8,600.00**
3	Geotechnical Investigations (RBG Engineering) - See Subconsultants Proposal													$1,535.00	**$1,535.00**
4	Cost Estimates (Construction Cost Control) - See Subconsultants													$2,340.00	**$2,340.00**
5	Electrical Design (Spectrum Engineering) - See Subconsultants Proposal													$740.00	**$740.00**
													SUB-CONSULTANT SUBTOTAL	**$13,215.00**	**$13,215.00**
	TOTALS	**12**	**50**	**84.5**	**81**	**70**	**36**				**333.5**	**$40,395**		**$13,215.00**	**$53,610.00**

All project coordination and meeting hours are shown in the Port Ramp area design fee instead of split into the separate areas.

HORROCKS ENGINEERS

2162 West Grove Parkway, Ste 400
Pleasant Grove, UT 84062
801-763-5100
www.horrocks.com

9-28-2022

Ensign Engineering
Attn. Robert Rouselle
Transmitted via email to: rrouselle@ensignutah.com

Re: Pineview Recreation Sites Redesign - Solicitation #22-200

Horrocks Engineers appreciates the opportunity to provide the following scope and fee for A/E services for the Pineview Recreation Sites Redesign Project. Our understanding of the project, proposed team, schedule, scope, tasks, and assumptions are summarized below.

PROJECT UNDERSTANDING:

Our understanding of the project is that the United States Forest Service in conjunction with Weber County will be improving various recreation sites around Pineview Reservoir including roadway and parking improvements, trail realignments and improvements, boat ramp repair, new vault restrooms, various day use facilities such as picnic tables and shade pavilions, and other associated improvements. The scope of work for the A/E includes planning, environmental studies (wetlands), engineering, and bidding support.

1. Based on previous correspondence and on-site discussions, Horrocks will provide the following services for the project with Ensign as the Project Manager:
2. Traffic Studies for all sites defined in the RFP.
3. Civil Design for the Pineview Trailhead and Port Ramp Site Including a concept design for a pedestrian tunnel at the Pineview Trailhead.

PROJECT TASKS:

Task 1: Project Management, Meetings and Coordination
Task 2: Pedestrian Underpass Concept Design
Task 3: Traffic Studies for the Port Ramp, Pineview Trailhead, Pelican Site, and Spring Creek Site
Task 4: Civil Design for the Port Ramp Site
Task 5: Civil Design for the Pineview Trailhead

Task 1 – Project Management, Meetings, and Coordination

Horrocks staff will provide design management and planning under Ensign's overall project management for the Port Ramp and Pineview Trailhead Sites including meetings, email coordination, project updates, meeting agenda items, accounting tasks, coordination with participating agencies, and internal team coordination. Assumptions are listed below:

A) Anticipated meeting schedule:

1. On-Site Kick-Off Meeting
   - Assume 1 meeting, 1-2 participants

2. Milestone Review and Other Client Coordination Meetings

   - Assume up to 6meetings, 1-2 participants, 1-2 hours per meeting

3. Internal Coordination Meetings

   - Assume a maximum of 10, 1-hour meetings.

B) Deliverables task 1 are as follows:

1. Meeting Minutes
2. Meeting Agenda Items
3. Project invoices

Task 2 – Pedestrian Underpass Concept Design

A) Horrocks will complete a conceptual design for the proposed pedestrian underpass located southwest of the Pineview Trailhead Site. The conceptual design will examine and identify needs for the following elements:

- Tunnel length and ideal location based on:
  1) ROW
  2) Adjacent Trailhead
  3) Existing Topography
  4) Requirements from UDOT
- Tunnel size including internal width and height to accommodate the proposed users.
- Trail tie-ins on both sides of the highway
- The need for ramps, retaining walls, or other elements to accommodate a tunnel.

B) Deliverables for this task include:

- Plan Sheets of the conceptual layout
- Preliminary estimate
- Action plan for design coordination with UDOT moving forward
- Potential funding sources

C) Assumptions for this task include:

- Survey provided by Weber County including right-of-way/property lines and topography.
- Minor coordination with UDOT only. No plan reviews or formal submittals to UDOT will be made.
- No structural calculations are anticipated.
- Minor structural assumptions for tunnel wall thickness and size based on previous tunnel designs and coordination with Ensign's structural group is included.

Task 3 – Traffic Studies

A) Horrocks will perform traffic studies in accordance with the RFP and county/UDOT requirements for the following sites:

- Port Ramp (UDOT Roadway) and Pineview Trailhead (UDOT Roadway)
  1) These two studies will be combined into the same report.
- Spring Creek (County Roadway) and Pelican (County Roadway)
  1) These two studies will be combined into the same report.

B) Deliverables for this task include:

- Traffic counts
- Draft Report
- Final Report

C) Assumptions for this task include:

- Horrocks will coordinate with UDOT and the County to determine the peak day to be used for analysis
- Horrocks assumes a UDOT Level II traffic study be completed for the Port Ramp and Pineview Trailhead locations, if a Level III or higher is required it will be completed at an additional fee
- Horrocks will provide a TIS to meet the standards of the County for the Spring Creek and Pelican Locations
- Reports for the Port Ramp and Pineview Trailhead will be combined.
- Reports for the Spring Creek and Pelican Sites will be combined.

Task 4 – Civil Design for Pineview Trailhead

Horrocks will prepare design documents for the Pineview trailhead site as described in the RFP.

<u>The primary elements of design for this site include:</u>

- Recommendations for pavement rehabilitation or replacement
- New Pavement design where required
- Signage and striping design
- Design of pathways within the site and coordination for connections outside of the site
- Design of turn pockets along state highway to meet UDOT standards and adhere to the recommendations of the traffic study.
- Fencing and Gate Design and Layout
- Placement of prefabricated shade structures and kiosks within the site.
- Trail connection up to a future pedestrian underpassing.
- Roadway Connection to the proposed port ramp site.

A) Submittals will occur at the following intervals:

1. Concept Design (30%)
2. Schematic Design (50%)
3. Design Development Plans (95%)

4. Construction Documents (100%)

B) The following sheets are anticipated in the final design package:

1. Existing Conditions and Demolition Plan
2. Site Layout and Dimensioning Plan
3. Grading Plan
4. Horizontal and Vertical Control Sheets
5. Site Detail Sheets
6. Landscape/Revegetation Plan (Provided by MGB&A)
7. No utility plans are anticipated at the day use area.

C) Deliverables for Task 4 include PDF and DWG files for each submittal.

D) Assumptions for the design of this site are as follows:

1. Horrocks will prepare design drawings for the turn pockets along the state highway per UDOT standards but the access permitting will be handled by the county/USFS.
2. Based on budget and design constraints it is assumed that the pedestrian underpass is part of a future phase. Horrocks will ensure that trail connections to the proposed underpass will accommodate a future design and will provide recommendations for the underpass, but the design of the underpass is not included in this scope of work.
3. No utility design is included for this site. All proposed restrooms are assumed to be vault style facilities and prefabricated.

Task 5 – Civil Design for Port Ramp Site

Horrocks will design and prepare drawings for the proposed Port Ramp as described in the project RFP and the understanding of work section of this proposal.

<u>The primary elements of design for this site include:</u>

- Recommendations for pavement rehabilitation or replacement
- New Pavement design where required
- Signage and striping design
- Design of pathways within the site and coordination for connections outside of the site
- Design of turn pockets along state highway to meet UDOT standards and adhere to the recommendations of the traffic study.
- Fencing and Gate Design and Layout
- Placement of prefabricated shade structures and kiosks within the site.
- Trail connection up to a future pedestrian under passing.
- Roadway Connection to the proposed port ramp site.
- Horizontal design for elevated boardwalk (Ensign to provide structural design)
- Pad design for proposed buildings. No architectural design included.
- Shoreline protection including basic hydraulic analysis and rip rap details.
- New pavement design for boat ramp based on geotechnical recommendations and structural design from Ensign.

- Prefabricated floating dock details as provided from manufacturer and integrated into the plans.
- Sewer connections from the camp host sites to a prefabricated holding tank specified by the county/forest service.

A) Submittals will occur at the following intervals:

1. Concept Design (30%)
2. Schematic Design (50%)
3. Design Development Plans (95%)
4. Construction Documents (100%)

B) The following sheets are anticipated in the final design package:

1. Existing Conditions and Demolition Plan
2. Site Layout and Dimensioning Plan
3. Grading Plan
4. Horizontal and Vertical Control Sheets
5. Site Detail Sheets
6. Landscape/Revegetation Plan (Provided by MGB&A)
7. No utility plans are anticipated at the day use area.

C) Deliverables for Task 5 include PDF and DWG files for each submittal as well as a memo outlining the findings of the water/sewer modeling exercise.

D) Assumptions for the design of this site are as follows:

1. All buildings will be prefabricated or designed by others. Horrocks will prepare designs for the pads for prefab buildings in accordance with manufacturer's details.
2. Wet utilities only are included in Horrocks' design. It is assumed that no new sources or treatment facilities will be included that improvements will consist of relocating or rerouting existing utilities and providing some new connections at host sites and the dump station.
3. No lift station design is included. It is assumed that all sewer is gravity flow, septic tank, contained within vault restrooms, or there is an existing lift station on site.

Sincerely,
Horrocks Engineers, Inc.

Zach Scott, PLA
Project Manager

Accepted by,

_____ **Date** _____

Name:
Company:
Title:

Pineview Recreation Sites Redesign

Horrocks Engineers Scope/Cost Estimate

TASK DESCRIPTION	COST	HOURS PER TASK	Design Management and Planning	Traffic Studies and Engineering	EIT	Utility and Site EIT	UDOT Structures Liason	UDOT Liason	Site Engineering	Site EIT	Design Technician	Traffic EIT	Traffic EIT	Drainage and Hydraulics Engineer	Drainage EIT
			Zach S. $145.20	Kevin C. $171.32	Justin S. $129.38	Caitlyn N. $112.10	Tony Curtis $217.65	Dustin Richins $190.55	Trevor P. $175.40	Daxen S. $93.62	Mackelle H. $93.62	Shane E. $97.43	Ted C. $97.27	Todd A. $222.15	Trevor O. $108.03
Port Ramp Site Design															
Project Management, Meetings, Coordination	$9,263.13	60	16	8	8	4			12			0		6	6
Review of Schematic Design/Concept Designs	$3,699.80	23	8	4	2				6			1		2	
30% Site Design Drawings	$13,594.17	104	4	2	36	16			8	14				8	16
Address 30% Design Comments	$890.54	8	1		2	1				4					
50% Site Design Drawings	$9,277.74	74	4	2	28	18			8	14					
Address 50% Design Comments	$2,643.35	20	1		2	1				4				4	8
95% Design Drawings	$9,826.11	82	4		44	20				14					
95% Specifications	$4,136.68	31	2	2	1				8	2	12			2	2
95% Estimate	$1,655.32	16	2		1	1				4	8				
Address 95% Comments	$890.54	8	1		2	1				4					
100% Design Drawings	$10,187.00	78	4	2	28	16			8	12				4	4
100% Specifications	$2,369.13	22	6							4	12				
100% Estimate	$1,994.65	18	6							4	8				
UDOT Roadway Design Coordination	$9,605.29	64	16	8	24				16						
SUBTOTAL:	**$80,033.44**	**544**													
Traffic Study - Port Ramp Site (State Highway)															
Data Collection	$779.40	8										8			
Traffic Analysis	$2,877.97	25		6								12	7		
Draft Report (combined with Pineview Trailhead)	$1,705.85	16		2								9	5		
Final Report (combined with Pineview Trailhead)	$1,219.02	11		2								6	3		
UDOT Coordination	$1,806.20	11	3	8											
SUBTOTAL:	**$8,388.44**	**71**													
PORT RAMP SITE SUBTOTAL:	**$88,421.88**														
Pineview Trailhead Site Design															
Project Management, Meetings, Coordination	$5,272.77	34	10	4	4	2			8					3	3
Review of Schematic Design/Concept Designs	$580.81	4	4												
30% Site Design Drawings	$4,396.18	35	2	1	14	6			4	8					
Address 30% Design Comments	$890.54	8	1		2	1				4					
50% Site Design Drawings	$4,256.51	34	4		12	6			4	8					
Address 50% Design Comments	$890.54	8	1		2	1				4					
95% Design Drawings	$5,291.52	42	4		20	6			4	8					
95% Specifications	$719.12	6	2		1	1				2					
95% Estimate	$1,413.84	14	2							4	8				
Address 95% Comments	$1,265.02	12	1		2	1				4	4				
100% Design Drawings	$4,319.81	34	8		8	6			4	8					
100% Specifications	$1,704.25	16	4							4	8				
100% Estimate	$1,329.77	12	4							4	4				
SUBTOTAL:	**$32,330.67**	**259**													
Pedestrian Underpass Concept Design															
Conceptual Layout	$4,264.73	26	8		8		6	4							
ROW Investigation	$1,098.31	8	4		4										
Draft Estimate and Funding Source Identification	$1,206.66	7	4				2	1							
SUBTOTAL:	**$6,569.70**	**41**													
Traffic Study - Pineview Trailhead (State Highway)															
Data Collection	$779.40	8										8			
Traffic Analysis	$2,877.97	25		6								12	7		
Draft Report (Combined with Port Ramp)	$1,705.85	16		2								9	5		
Final Report (Combined with Port Ramp)	$1,219.02	11		2								6	3		
UDOT Coordination	$1,806.20	11	3	8											
SUBTOTAL:	**$8,388.44**	**71**													
PINEVIEW TRAILHEAD SITE SUBTOTAL:	**$47,288.81**														
Other Sites															
Traffic Study - Spring Creek Site (County Highway)															
Data Collection	$779.40	8										8			
Traffic Analysis	$1,510.85	14		2								6	6		
Draft Report (Combined with Pelican Site)	$1,510.24	14		2								2	10		
Final Report (Combined with Pelican Site)	$1,071.80	9	1	2								2	4		
SUBTOTAL:	**$4,872.29**	**45**													
Traffic Study - Pelican Site (County Highway)															
Data Collection	$779.40	8										8			
Traffic Analysis	$1,510.85	14		2								6	6		
Draft Report (Combined with Spring Creek Site)	$1,510.24	14		2								2	10		
Final Report (Combined with Spring Creek Site)	$1,071.80	9	1	2								2	4		
SUBTOTAL:	**$4,872.29**	**45**													
OTHER SITES SUBTOTAL:	**$9,744.57**														
TOTAL HOURS PER CATEGORY			146	81	255	108	8	5	90	138	64	107	70	29	39
TOTALS	**$145,455.26**	**1005**	**$21,199.42**	**$13,877.29**	**$32,991.08**	**$12,107.06**	**$1,741.20**	**$952.75**	**$15,786.14**	**$12,919.56**	**$5,991.68**	**$10,424.50**	**$6,809.19**	**$6,442.38**	**$4,212.99**

TOTAL ESTIMATED COST: $145,455.26

Pineview Reservoir
MGB+A FEE ESTIMATE WORKSHEET **OVERALL**
8/5/2022

			Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
			Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$	150.00	6	$ 900.00	12	$ 1,800.00	4	$ 600.00	4	$ 600.00	0	$ -
Principal (Greg)	$	120.00	6	$ 720.00	10	$ 1,200.00	4	$ 480.00	4	$ 480.00	0	$ -
Proj. Manager (Bret)	$	110.00	6	$ 660.00	25	$ 2,750.00	10	$ 1,100.00	15	$ 1,650.00	8	$ 880.00
Land. Arch.	$	90.00	15	$ 1,350.00	165	$ 14,850.00	20	$ 1,800.00	45	$ 4,050.00	8	$ 720.00
Staff	$	80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$	70.00	0	$ -	0	$ -	0	$ -	5	$ 350.00	0	$ -
TOTAL			**33**	**$ 3,630.00**	**212**	**$ 20,600.00**	**38**	**$ 3,980.00**	**73**	**$ 7,130.00**	**16**	**$ 1,600.00**

TOTAL **372 $ 36,940.00**

Pineview Reservoir

MGB+A FEE ESTIMATE WORKSHEET **PORT RAMP AREA**

8/5/2022 (Rev. 1 - 9/26/2022)

			Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
			Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$	150.00	2	$ 300.00	4	$ 600.00	1	$ 150.00	1	$ 150.00	0	$ -
Principal (Greg)	$	120.00	2	$ 240.00	4	$ 480.00	1	$ 120.00	1	$ 120.00	0	$ -
Proj. Manager (Bret)	$	110.00	2	$ 220.00	8	$ 880.00	4	$ 440.00	5	$ 550.00	2	$ 220.00
Land. Arch.	$	90.00	5	$ 450.00	58	$ 5,220.00	7	$ 630.00	16	$ 1,440.00	2	$ 180.00
Staff	$	80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$	70.00	0	$ -	0	$ -	0	$ -	1	$ 70.00	0	$ -
TOTAL			**11**	**$ 1,210.00**	**74**	**$ 7,180.00**	**13**	**$ 1,340.00**	**24**	**$ 2,330.00**	**4**	**$ 400.00**

TOTAL **126 $ 12,460.00**

Pineview Reservoir

MGB+A FEE ESTIMATE WORKSHEET **PINEVIEW TRAILHEAD AREA**

8/5/2022 (Rev. 1 - 9/26/2022)

			Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
			Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$	150.00	1	$ 150.00	3	$ 450.00	1	$ 150.00	1	$ 150.00	0	$ -
Principal (Greg)	$	120.00	1	$ 120.00	2	$ 240.00	1	$ 120.00	1	$ 120.00	0	$ -
Proj. Manager (Bret)	$	110.00	1	$ 110.00	5	$ 550.00	2	$ 220.00	3	$ 330.00	2	$ 220.00
Land. Arch.	$	90.00	3	$ 270.00	32	$ 2,880.00	4	$ 360.00	9	$ 810.00	2	$ 180.00
Staff	$	80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$	70.00	0	$ -	0	$ -	0	$ -	1	$ 70.00	0	$ -
TOTAL			**6**	**$ 650.00**	**42**	**$ 4,120.00**	**8**	**$ 850.00**	**15**	**$ 1,480.00**	**4**	**$ 400.00**

TOTAL **75 $ 7,500.00**

Pineview Reservoir

MGB+A FEE ESTIMATE WORKSHEET **PELICAN BEACH AREA**

8/5/2022 (Rev. 1 - 9/26/2022)

		Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
		Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$ 150.00	1	$ 150.00	1	$ 150.00	1	$ 150.00	1	$ 150.00	0	$ -
Principal (Greg)	$ 120.00	1	$ 120.00	1	$ 120.00	1	$ 120.00	1	$ 120.00	0	$ -
Proj. Manager (Bret)	$ 110.00	1	$ 110.00	3	$ 330.00	1	$ 110.00	2	$ 220.00	1	$ 110.00
Land. Arch.	$ 90.00	2	$ 180.00	17	$ 1,530.00	2	$ 180.00	5	$ 450.00	1	$ 90.00
Staff	$ 80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$ 70.00	0	$ -	0	$ -	0	$ -	1	$ 70.00	0	$ -
TOTAL		**5**	**$ 560.00**	**22**	**$ 2,130.00**	**5**	**$ 560.00**	**10**	**$ 1,010.00**	**2**	**$ 200.00**

TOTAL	**44**	**$ 4,460.00**

Pineview Reservoir

MGB+A FEE ESTIMATE WORKSHEET **SPRING CREEK AREA**

8/5/2022 (Rev. 1 - 9/26/2022)

			Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
			Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$	150.00	1	$ 150.00	1	$ 150.00	0	$ -	0	$ -	0	$ -
Principal (Greg)	$	120.00	1	$ 120.00	1	$ 120.00	0	$ -	0	$ -	0	$ -
Proj. Manager (Bret)	$	110.00	1	$ 110.00	3	$ 330.00	1	$ 110.00	2	$ 220.00	1	$ 110.00
Land. Arch.	$	90.00	2	$ 180.00	17	$ 1,530.00	2	$ 180.00	5	$ 450.00	1	$ 90.00
Staff	$	80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$	70.00	0	$ -	0	$ -	0	$ -	1	$ 70.00	0	$ -
TOTAL			**5**	**$ 560.00**	**22**	**$ 2,130.00**	**3**	**$ 290.00**	**8**	**$ 740.00**	**2**	**$ 200.00**

TOTAL	**40**	**$ 3,920.00**

Pineview Reservoir

MGB+A FEE ESTIMATE WORKSHEET **NEW POINT AREA**

8/5/2022 (Rev. 1 - 9/26/2022)

			Site Analysis		SD/Half Day Workshop		DD		CD		Bidding	
			Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
Partner (Jay)	$	150.00	1	$ 150.00	3	$ 450.00	1	$ 150.00	1	$ 150.00	0	$ -
Principal (Greg)	$	120.00	1	$ 120.00	2	$ 240.00	1	$ 120.00	1	$ 120.00	0	$ -
Proj. Manager (Bret)	$	110.00	1	$ 110.00	6	$ 660.00	2	$ 220.00	3	$ 330.00	2	$ 220.00
Land. Arch.	$	90.00	3	$ 270.00	41	$ 3,690.00	5	$ 450.00	10	$ 900.00	2	$ 180.00
Staff	$	80.00	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Clerical/Admin	$	70.00	0	$ -	0	$ -	0	$ -	1	$ 70.00	0	$ -
TOTAL			**6**	**$ 650.00**	**52**	**$ 5,040.00**	**9**	**$ 940.00**	**16**	**$ 1,570.00**	**4**	**$ 400.00**

TOTAL **87 $ 8,600.00**

RB&G ENGINEERING, INC.

September 27, 2022

Ensign Engineering
Attention: Robert Rousselle
919 North 400 West
Layton, UT 84041

Re: Pineview Reservoir Recreational Facilities – Geotechnical Investigation Proposal Revised

Mr. Rousselle:

In accordance with your request, we are outlining below our proposal to perform a geotechnical investigation for the proposed Pineview Reservoir Recreational Facilities project, near Huntsville and Eden in Weber County, Utah. We understand that the project will include improvements to five areas including Spring Creek, Pelican Beach, Pineview Trail Head, New Point, and Port Ramp. The proposed improvements include about 2,000 ft of new roadway, one new parking area (New Point), expanded parking areas for the other 4 locations, and several small structures including pavilions, covered picnic areas, vault toilets, and fee booths.

We propose to drill eight borings to depths of 15 feet (one to two at each of the five locations identified above) to investigate foundation conditions for small structures, and seven borings to depths of 6 feet (about one boring per 1,000 feet of new road plus additional for new parking areas) to investigate subgrade conditions for the roadways. We also propose to drill up to two borings to 30 feet for foundation recommendations for the boardwalk repair. Based upon the results of the field investigations and appropriate laboratory tests, recommendations will be provided for foundation and pavement design. In addition to the geotechnical investigation, we have included in our scope time to attend two meetings at project milestones, including the 60% design and the final design submittals. Our proposal to perform the soil investigation based upon the above scope of work is described below.

1. SUBSURFACE INVESTIGATION

We propose to furnish all labor, materials, and equipment to perform the work indicated above. Sampling will be performed continuously within the 6-foot deep pavement borings and at three-foot depth intervals in the structure borings during the subsurface investigation. The test holes will

be logged in the field and each sample will be classified visually according to the Unified Soil Classification System. If groundwater is encountered, the depth of the water table will be noted on the boring logs. Our cost for performing this phase of the work is shown below, shown individually for each site.

Site 1: Port Ramp Area Field Investigation

A	Drill Crew Mobilization / Demobilization	190	mi	@	$4.50	/mi	$855.00
B	Drill Rig Plus Crew	16	hrs	@	$220.00	/hr	$3,520.00
C	Geologist/Engineer (including bluestakes)	24	hrs	@	$125.00	/hr	$3,000.00
D	Geologist/Engineer mileage (includes separate trip for bluestaking)	400	mi	@	$0.625	/mi	$250.00
E	Support Equipment (truck & water trailer)	2	days	@	$110.00	/day	$220.00
F	Per Diem (3 man crew)	6	man-days	@	$125.00	/day	$750.00
						Subtotal	$8,595.00

Site 2: Pineview Trailhead Area Field Investigation

A	Drill Crew Mobilization / Demobilization	0	mi	@	$4.50	/mi	$0.00
B	Drill Rig Plus Crew	3	hrs	@	$220.00	/hr	$660.00
C	Geologist/Engineer (including bluestakes)	4	hrs	@	$125.00	/hr	$500.00
D	Geologist/Engineer mileage (includes separate trip for bluestaking)	0	mi	@	$0.625	/mi	$0.00
E	Support Equipment (truck & water trailer)	1	days	@	$110.00	/day	$110.00
F	Per Diem (3 man crew)	3	man-days	@	$125.00	/day	$375.00
						Subtotal	$1,645.00

Site 3: Pelican Beach Area Field Investigation

A	Drill Crew Mobilization / Demobilization	0	mi	@	$4.50	/mi	$0.00
B	Drill Rig Plus Crew	7	hrs	@	$220.00	/hr	$1,540.00
C	Geologist/Engineer (including bluestakes)	8	hrs	@	$125.00	/hr	$1,000.00
D	Geologist/Engineer mileage (includes separate trip for bluestaking)	0	mi	@	$0.625	/mi	$0.00
E	Support Equipment (truck & water trailer)	1	days	@	$110.00	/day	$110.00
F	Per Diem (3 man crew)	3	man-days	@	$125.00	/day	$375.00
						Subtotal	$3,025.00

Site 4: Spring Creek Area Field Investigation

A	Drill Crew Mobilization / Demobilization	0	mi	@	$4.50	/mi	$0.00
B	Drill Rig Plus Crew	7	hrs	@	$220.00	/hr	$1,540.00
C	Geologist/Engineer (including bluestakes)	7	hrs	@	$125.00	/hr	$875.00
D	Geologist/Engineer mileage (includes separate trip for bluestaking)	0	mi	@	$0.625	/mi	$0.00
E	Support Equipment (truck & water trailer)	1	days	@	$110.00	/day	$110.00
F	Per Diem (3 man crew)	3	man-days	@	$125.00	/day	$375.00
						Subtotal	$2,900.00

Site 5: New Point Area Field Investigation

A	Drill Crew Mobilization / Demobilization	0	mi	@	$4.50	/mi	$0.00
B	Drill Rig Plus Crew	3	hrs	@	$220.00	/hr	$660.00
C	Geologist/Engineer (including bluestakes)	3	hrs	@	$125.00	/hr	$375.00
D	Geologist/Engineer mileage (includes separate trip for bluestaking)	0	mi	@	$0.625	/mi	$0.00
E	Support Equipment (truck & water trailer)	0	days	@	$110.00	/day	$0.00
F	Per Diem (3 man crew)	0	man-days	@	$125.00	/day	$0.00
						Subtotal	$1,035.00

The total for the field investigation for the five sites comes to $17,200.

Our cost to perform the investigation assumes that no special permitting or traffic control will be required to perform this work. If permits or traffic control are required, the associated fees and costs will be invoiced to the project along with time spent obtaining the permits. The cost also assumes that access to the drill sites will be available for a drill rig mounted on a 2-ton truck. The cost also assumes that all 5 sites will be drilled during the same mobilization, such that drill crew/rig mobilization and geologist/engineer travel are shown only for Site 1. If the investigation for each site cannot be completed during the same mobilization, additional costs associated with mobilization will be added at the rates shown.

The depth of the structure borings is based on the assumption that the small structures will not be explicitly designed for seismic loading, such that determination of an accurate site class and evaluation of liquefaction potential will not be necessary.

2. LABORATORY TESTING

The exact type and number of laboratory tests cannot be completely defined until the field investigations have been completed. It is anticipated, however, that the following testing program will be required to define the strength and compressibility characteristics of the subsurface material:

Site 1: Port Ramp Area Lab Testing

A	Classification (Gradation or Plasticity)	12	tests	@	$80.00	/test	$960.00
B	Unconfined Compression	2	tests	@	$80.00	/test	$160.00
C	Consolidation (with collapse / swell)	2	tests	@	$110.00	/test	$220.00
D	Electro Chemical (pH, resistivity, sulfate, chloride)	1	tests	@	$160.00	/test	$160.00
E	Proctor and 1-Point CBR	0	tests	@	$260.00	/test	$0.00
						Subtotal	$1,500.00

Site 2: Pineview Trailhead Area Lab Testing

A	Classification (Gradation or Plasticity)	3	tests	@	$80.00	/test	$240.00
B	Unconfined Compression	0	tests	@	$80.00	/test	$0.00
C	Consolidation (with collapse / swell)	0	tests	@	$110.00	/test	$0.00
D	Electro Chemical (pH, resistivity, sulfate, chloride)	0	tests	@	$160.00	/test	$0.00
E	Proctor and 1-Point CBR	1	tests	@	$260.00	/test	$260.00
						Subtotal	$500.00

Site 3: Pelican Beach Area Lab Testing

A	Classification (Gradation or Plasticity)	6	tests	@	$80.00	/test	$480.00
B	Unconfined Compression	1	tests	@	$80.00	/test	$80.00
C	Consolidation (with collapse / swell)	1	tests	@	$110.00	/test	$110.00
D	Electro Chemical (pH, resistivity, sulfate, chloride)	0	tests	@	$160.00	/test	$0.00
E	Proctor and 1-Point CBR	1	tests	@	$260.00	/test	$260.00
						Subtotal	$930.00

Site 4: Spring Creek Area Lab Testing

A	Classification (Gradation or Plasticity)	6	tests	@	$80.00	/test	$480.00
B	Unconfined Compression	1	tests	@	$80.00	/test	$80.00
C	Consolidation (with collapse / swell)	1	tests	@	$110.00	/test	$110.00
D	Electro Chemical (pH, resistivity, sulfate, chloride)	1	tests	@	$160.00	/test	$160.00
E	Proctor and 1-Point CBR	1	tests	@	$260.00	/test	$260.00
						Subtotal	$1,090.00

Site 5: New Point Area Lab Testing

A	Classification (Gradation or Plasticity)	3	tests	@	$80.00	/test	$240.00
B	Unconfined Compression	0	tests	@	$80.00	/test	$0.00
C	Consolidation (with collapse / swell)	0	tests	@	$110.00	/test	$0.00
D	Electro Chemical (pH, resistivity, sulfate, chloride)	0	tests	@	$160.00	/test	$0.00
E	Proctor and 1-Point CBR	1	tests	@	$260.00	/test	$260.00
						Subtotal	$500.00

The total for the laboratory testing for the five sites comes to $4,520.

It will be noted that the testing has been defined in terms of the number, type, and unit cost so that modifications can be made in the total cost for the laboratory testing, depending upon the actual tests performed. No additional tests will be performed without authorization from your organization. Soil samples not used for laboratory testing will be retained for 60 days following submittal of our geotechnical report, after which they will be discarded unless other arrangements for sample storage are made.

3. ANALYSIS AND REPORT

The results of the field and laboratory tests will be analyzed and summarized in a written report to be submitted electronically. Hard copies will be provided upon request. The information contained in the report will include the following: (1) Geological and Existing Site Conditions, (2) Subsurface Soil and Water Conditions, (3) Foundation Considerations and Recommendations, (4) Site Preparation and Compacted Fill Requirements, (5) Flexible Pavement Design Recommendations, and (6) The Results of Field and Laboratory Tests. Our cost for performing this phase of the work will be $3,700 if all sites are combined in one report.

4. PROJECT MILESTONE MEETINGS

We propose to participate in two meetings for the project 60% design submittal and the Final design submittal, both of which will occur after completion of the geotechnical investigation and report. We have assumed that each meeting will be up to two hours long, and that we will be able to attend the meetings virtually / remotely. We can attend additional meetings upon request at the hourly rate shown below. Travel for in-person meetings will be billed at the rate shown plus $0.625 per mile.

A	Geotechnical Engineer Meeting Attendance	4	hrs	@	$135.00	/hr	$540.00

Based upon the subdivision of costs indicated above, the estimated cost for performing this investigation and attending the requested meetings will be **$25,960.00**. This cost can be itemized per site for the field and lab work as follows.

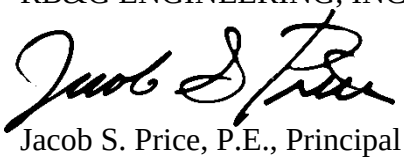
	Field Investigation	Laboratory Testing	Total
Site 1: Port Ramp Area	$8,595.00	$1,500.00	$10,095.00
Site 2: Pineview Trailhead Area	$1,645.00	$500.00	$2,145.00
Site 3: Pelican Beach Area	$3,025.00	$930.00	$3,955.00
Site 4: Spring Creek Area	$2,900.00	$1,090.00	$3,990.00
Site 5: New Point Area	$1,035.00	$500.00	$1,535.00
Report	n/a	n/a	$3,700.00
Project Milestones Meetings	n/a	n/a	$540.00
Total	$17,200.00	$4,520.00	**$25,960.00**

Preliminary locations of the borings are shown on the attached conceptual plans. The final locations will be determined in coordination with Ensign. Field work can typically be started with two to four weeks' notice after Notice to Proceed is issued and the boring locations have been identified. About four weeks should be scheduled to perform the Lab Testings, laboratory testing, and complete the geotechnical report.

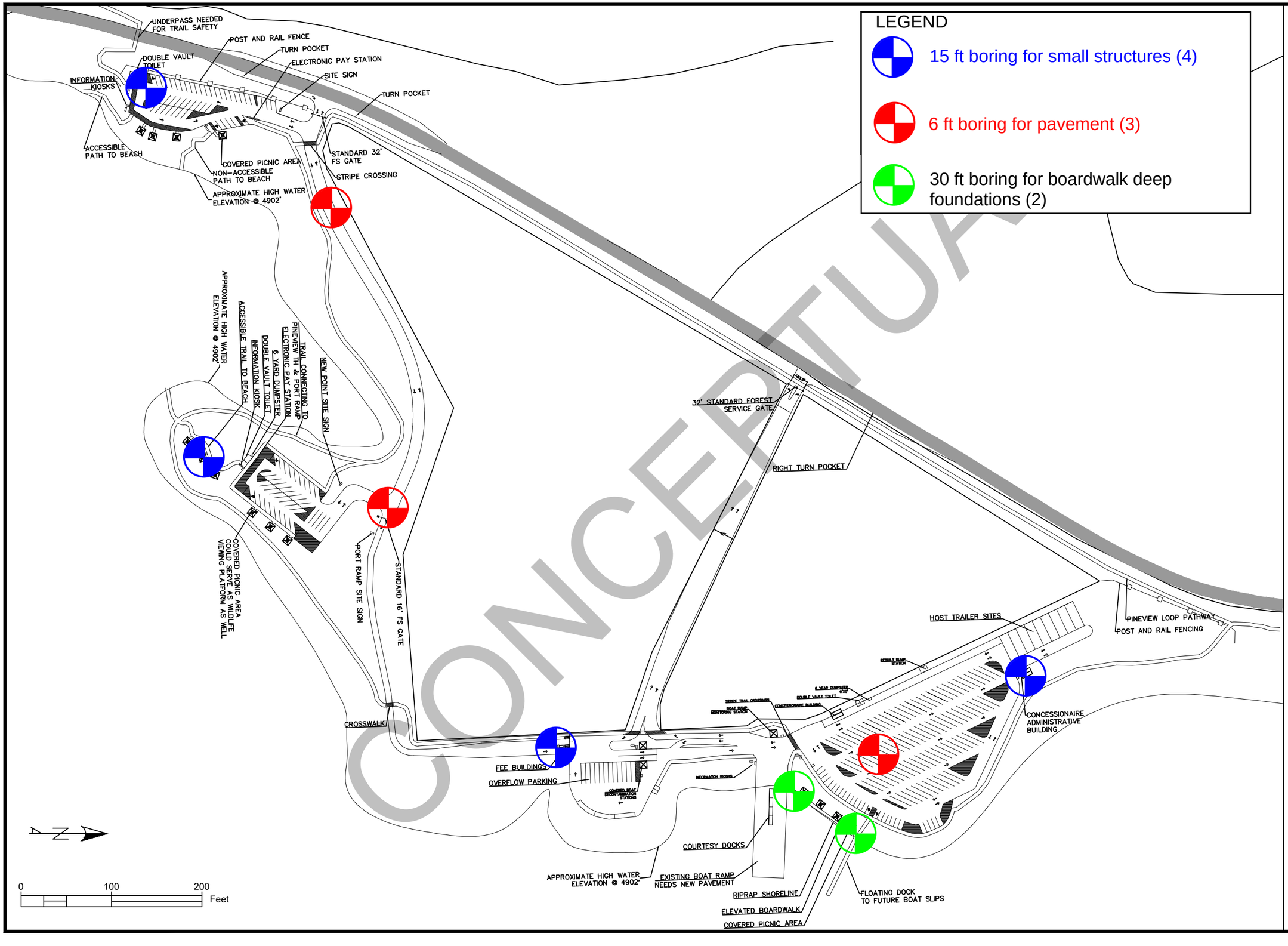
We appreciate the opportunity to submit this proposal to you and hope we can be of service to you on this project.

Sincerely,

RB&G ENGINEERING, INC.



Jacob S. Price, P.E., Principal



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United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME

PORT RAMP/PINEVIEW TRAILHEAD

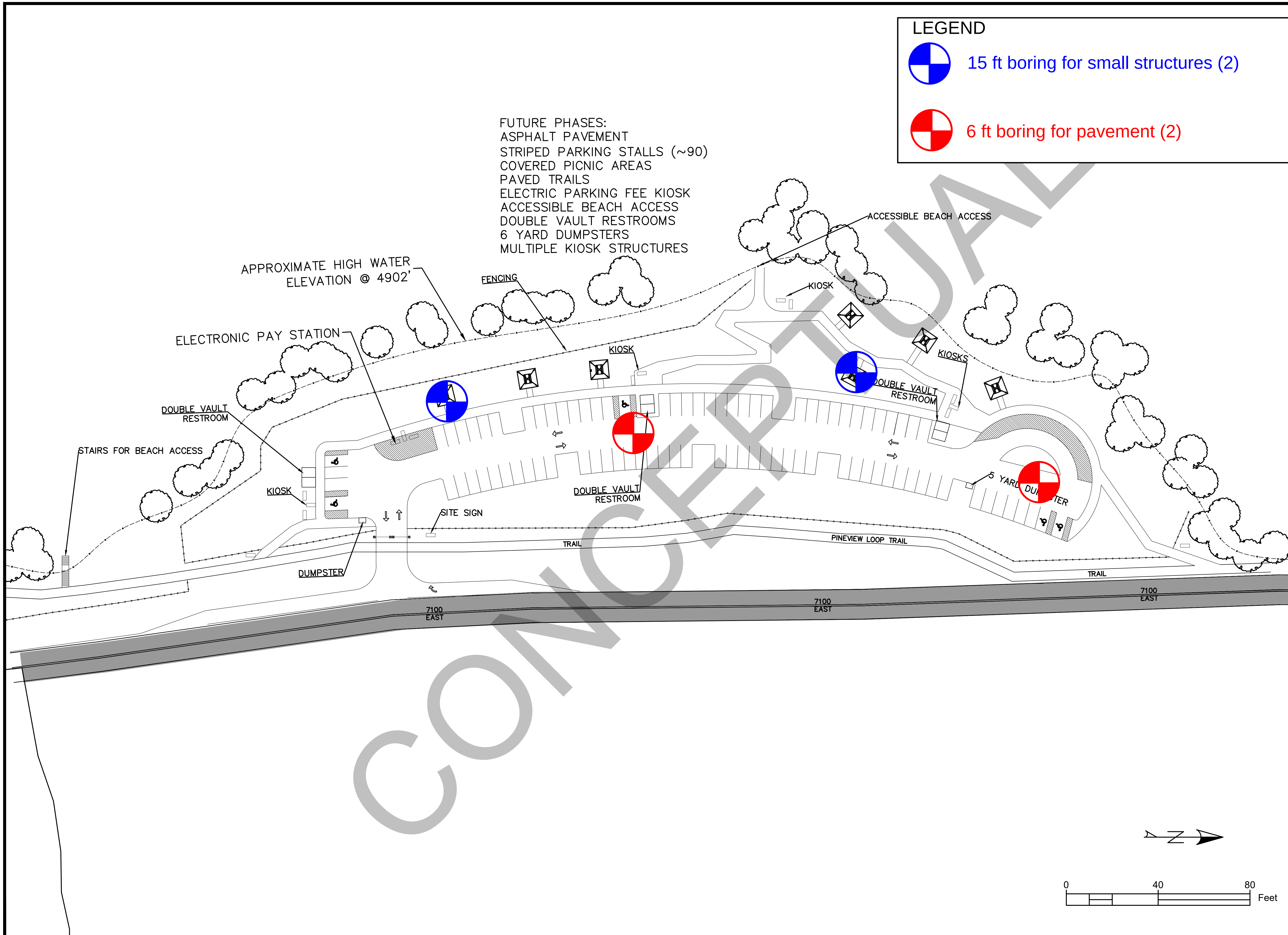
UINTA-WASATCH-CACHE NATIONAL FOREST

OGDEN RANGER DISTRICT

DRAWING TITLE

CONCEPTUAL LAYOUT

DATE 04/01/2022	ARCHIVE NO.
DESIGNER Z. MAUGHAN	DRAWING SHEET NO. X-01
DRAWN Z. MAUGHAN	
CHECKED X.XXX	
PROJECT NO.	SHEET 1 OF 6



4/1/22 12:04 ZMAUGHAN C:\USERS\ZMAUGHAN\BOX\2300RECREATION_UWC\00_NAMP\PROJECTS\06_PINEVIEW RECREATION COMPLEX\DESIGN\SITEDESIGN\SITE CONCEPTUALS\CAD FILES\FSLAYOUT_PINEVIEW_CONCEPTS.DWG;

USDA

United States Department of Agriculture
Forest Service

(R4)
INTERMOUNTAIN

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME

PELICAN (QUIST) DAYUSE AREA

UINTA-WASATCH-CACHE NATIONAL FOREST

OGDEN RANGER DISTRICT

DRAWING TITLE

CONCEPTUAL DESIGN

DATE 04/01/2022	ARCHIVE NO.
DESIGNER Z. MAUGHAN	DRAWING SHEET NO. **X-01**
DRAWN Z. MAUGHAN	
CHECKED X.XXX	
PROJECT NO.	SHEET 6 OF 6

LEGEND

15 ft boring for small structures (2)

6 ft boring for pavement (2)

FUTURE PHASE:

- COMPACTED AGGREGATE PAVEMENT (ASPHALT OPTIONAL)
- PROVIDE GROUP PICNIC SITES
- PICNIC AREAS WITH SHADE STRUCTURES
- COMPACTED AGGREGATE TRAILS (CLASS 4)
- PARKING FEE KIOSK (SOLAR PREFERRED)
- ~70 PARKING STALLS
- INTERPRETIVE TRAIL
- ACCESSIBLE BEACH ACCESS
- MAINTAIN CONNECTIVITY WITH PLP TRAIL

TRAIL

ACCESSIBLE BEACH ACCESS

6 YARD DUMPSTER
ADD SCREENING

DOUBLE VAULT TOILET

ELECTRONIC PAY STATION
INFORMATION KIOSK

ACCESSIBLE TRAIL
TO BEACH

PROVIDE TURN POCKETS
STANDARD 32' FOREST GATE

CONSIDER VEGETATED
ISLANDS FOR STORM
WATER

DOUBLE VAULT TOILET

6 YARD DUMPSTER
ADD SCREENING

ACCESSIBLE NATURE TRAIL

DOUBLE VAULT TOILET

COVERED PICNIC SITE

APPROXIMATE HIGH WATER
ELEVATION @ 4902'

COVERED PICNIC AREA
COULD SERVE AS WILDLIFE
VIEWING PLATFORM AS WELL

0 40 80 Feet

N

United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME

SPRING CREEK DAY USE

UINTA-WASATCH-CACHE NATIONAL FOREST

OGDEN RANGER DISTRICT

DRAWING TITLE

CONCEPTUAL LAYOUT

DATE 03/31/2022	ARCHIVE NO.
DESIGNER Z. MAUGHAN	DRAWING SHEET NO. X-01
DRAWN Z. MAUUGHAN	
CHECKED X.XXX	
PROJECT NO.	SHEET 5 OF 6

CONSTRUCTION CONTROL CORPORATION

FEE PROPOSAL

FROM: Kris Larson
TO: Robert Rouselle
CO: Ensign

DATE: September 28, 2022
PROJECT: Pineview Recreation Sites Redesign

Robert,

Thank you for considering us to provide estimating services for the Pineview Recreation Sites Redesign project. The estimating services are for the redesign of the Pelican Beach, Port Ramp, Pineview Trailhead, New Point, Spring Creek areas of the reservoir. We propose to provide estimating services for the following not to exceed fee:

Concept Design			
Port Ramp	8 HR	$130.00	**$1,040.00**
Pineveiw Trailhead	4 HR	$130.00	**$520.00**
Pelican Beach Area	4 HR	$130.00	**$520.00**
Spring Creek Area	4 HR	$130.00	**$520.00**
New Point Area	4 HR	$130.00	**$520.00**
Design Development			
Port Ramp	12 HR	$130.00	**$1,560.00**
Pineveiw Trailhead	4 HR	$130.00	**$520.00**
Pelican Beach Area	6 HR	$130.00	**$780.00**
Spring Creek Area	4 HR	$130.00	**$520.00**
New Point Area	4 HR	$130.00	**$520.00**
PreConstruction Documents			
Port Ramp	16 HR	$130.00	**$2,080.00**
Pineview Trailhead	5 HR	$130.00	**$650.00**
Pelican Beach Area	8 HR	$130.00	**$1,040.00**
Spring Creek Area	5 HR	$130.00	**$650.00**
New Point Area	6 HR	$130.00	**$780.00**
Construction Documents update			
Port Ramp	8 HR	$130.00	**$1,040.00**
Pineveiw Trailhead	4 HR	$130.00	**$520.00**
Pelican Beach Area	4 HR	$130.00	**$520.00**
Spring Creek Area	4 HR	$130.00	**$520.00**
New Point Area	4 HR	$130.00	**$520.00**
Total Not to Exceed Fee			**$15,340.00**

P (801) 578-1201
307 W. 200 S. Ste 4006
SLC, UT 84101
www.cccutah.com

CONSTRUCTION CONTROL CORPORATION

Estimating services are limited to the scope listed above. This fee proposal does not include additional estimates, regular design meeting attendance, or travel expenses. If these are required they will be billed at the rate shown above.

We look forward to working with you on this project. Please call if you have any questions.

Thank You,

Kris Larson
President

P (801) 578-1201
307 W. 200 S. Ste 4006
SLC, UT 84101
www.cccutah.com

SPECTRUM
ENGINEERS

Fee Proposal For:

Pineview Reservoir Recreation Complex

Robert Rousselle
Ensign
45W 10000 South, Suite 500
Sandy UT, 84070
rrousselle@ensignutah.com

September 28, 2022

Project Description: Provide engineering design services for the following improvements at Pineview reservoir.

- Providing electrical for boat decontamination stations.
- Providing electrical and design for entrance booths, concessionaire and concessionaire admin buildings.
- Electrical for host trailer sites.
- Provide electrical for the electronic pay stations at each site.
- Construction administration services are excluded

Hourly Rate	$185.00

SPECTRUM
ENGINEERS

Engineering Service	Scope of Work	Hours	Proposed Fee (Based on hourly rate)
Electrical New Point	• New electrical service • Power distribution to electronic pay stations	**4**	**$740**
Electrical Pelican Beach	• New electrical service • Power distribution to electronic pay stations	**4**	**$740**
Electrical Pineview Trailhead	• Provide power distribution to new electronic pay stations • Utilizing existing electrical service at restroom	**2**	**$370**
Electrical Port Ramp	• Upgrade existing electrical services or provide new as needed. • Electrical Utility Coordination • Electrical distribution throughout site. • Electrical connections for equipment/devices provided by others. • Exterior lighting near entrance booths and concessionaire buildings	**50**	**$9,250**
Electrical Spring Creek	• New electrical service • Power distribution to electronic pay stations	**4**	**$740**
Total Electrical Engineering Fee		**64**	**$11,840**

DISCIPLINES
Mechanical Engineering
Electrical Engineering
Technology Design
Acoustical Engineering
Lighting Design
Theatre Design
Fire Protection Engineering
Building Commissioning

CENTERS OF
ENGINEERING EXCELLENCE
Healthcare
Higher Education
K-12 Education
Government
Houses of Worship
Special Projects

SALT LAKE CITY
324 S. State Street
Suite 400
Salt Lake City, UT 84111
phone: 801-328-5151
fax: 801-328-5155

PHOENIX
1501 W. Fountainhead Parkway
Suite 340
Tempe, AZ 85282
phone: 480-621-8444
fax: 480-621-8445

ST. GEORGE
2195 W. Stonebridge Dr.
St. George, UT 84770
phone: 435-656-2429
fax: 435-656-2519

www.spectrum-engineers.com
800-678-7077

Additional Services: None

By: _____

Jason Worthen, P.E., Associate Principal

SPECTRUM
ENGINEERS

Basis of Fee:

General

Predesign services include:

- Electrical to visit to the project site to determine as-built and existing conditions.

Design services include:

- Attendance at bi-weekly design meetings
- Drawings and specifications suitable for submission to the local jurisdiction.
- Corrections to our drawings to reflect changes and comments by all Reviewing Authorities.
- An electronic set of final drawings and specifications in ACAD and PDF format for record purposes.
- Construction drawings to be completed using CAD or Revit modeling to the extent required to coordinate with major architectural, structural and mechanical components as modeled by others.

Bidding services include:

- Issuing addenda
- Answering bidder's questions
- Responding to requests for information

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1501 W. Fountainhead Parkway
Suite 340
Tempe, AZ 85282
phone: 480-621-3444
fax: 480-621-3445

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SPECTRUM
ENGINEERS

Hourly Rates		
Principal Project Manager		
	Principal	$250.00
Mechanical, Electrical, and Plumbing Engineering		
	Principal	$215.00
	Associate	$185.00
	Staff Engineer or Designer	$135.00
Technicians		
	CAD Draftsman	$85.00
	Clerical	$65.00

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Authorization to Proceed:

This proposal remains open for a period of 60 days from the date of the proposal.

Terms of Payment: 30 days net, without any retentions or deductions, from the date of invoice.

By signing below I hereby accept this proposal from SPECTRUM ENGINEERS, INC. as the basis for preparing a consulting contract as indicated above. If this proposal is not signed and SPECTRUM ENGINEERS, INC. is instructed to proceed with the work, this proposal will form the basis of the agreement between us, and will automatically incorporate the referenced AIA Agreement. If a separate Agreement is signed for this project, then this proposal letter will automatically be incorporated into the signed Agreement.

Client Signature_____

Date_____

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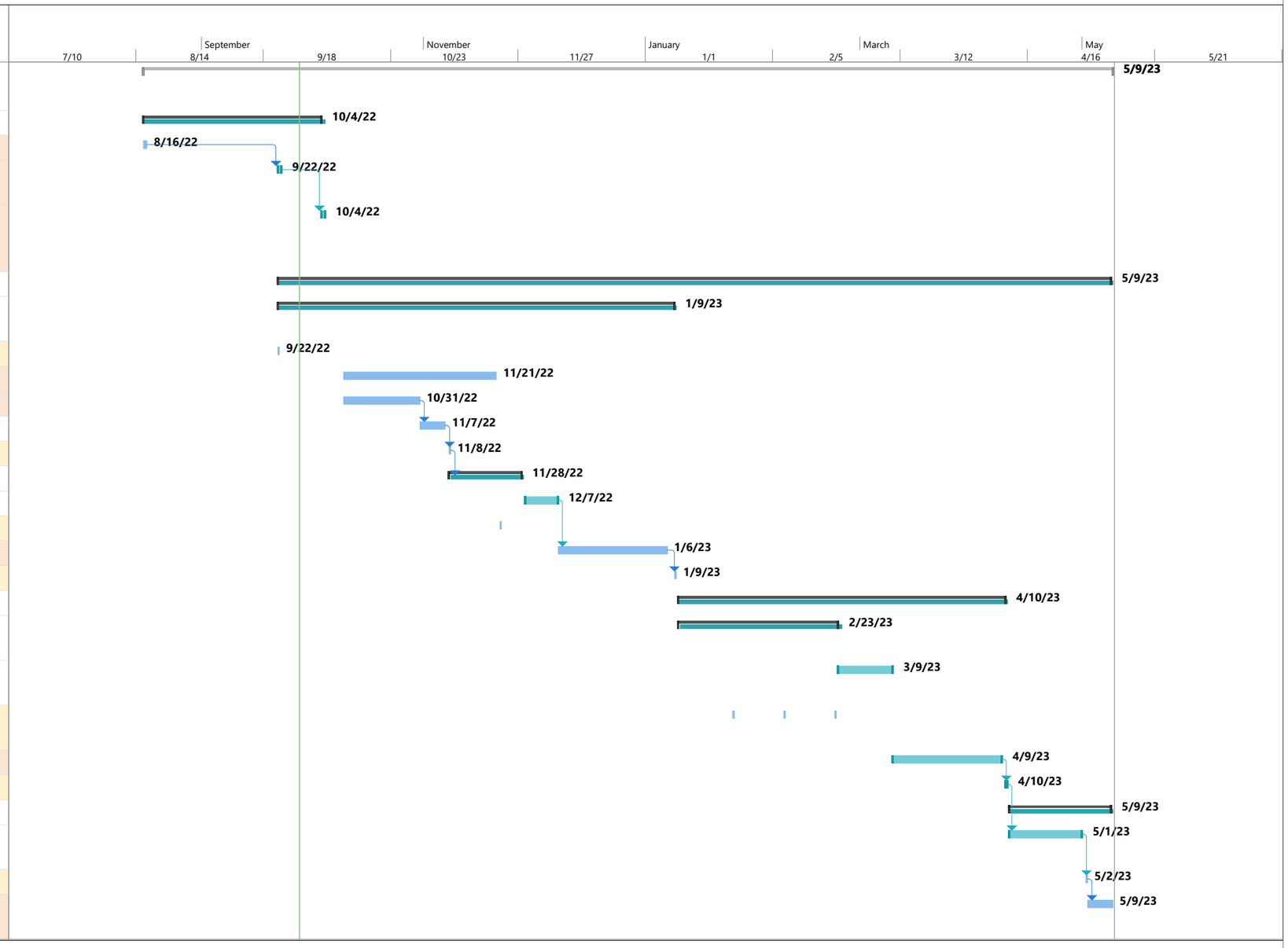
Ensign Engineering and Land Surveying
Pineview Recreation Sites Redesign
Solicitation # 22-200
Preliminary Project Schedule (Rev. 1)
Exhibit C

ID	Task Name	Duration	Start	Finish
0	**Pineview Reservoir Recreation Complex - Project Schedule (Rev. 1)**	**190.5 days**	**Tue 8/16/22**	**Tue 5/9/23**
1	**Contract Negotiation/Sub-Consultant Agreements**	**49 edays**	**Tue 8/16/22**	**Tue 10/4/22**
2	SOQ and Cost Proposal Due	1 day	Tue 8/16/22	Tue 8/16/22
3	Selection and Announcement of Design Firm by Selection Committee	1 day	Thu 9/22/22	Thu 9/22/22
4	Notice to Proceed (NTP) - Enter Into Design Agreement Between Weber County and Ensign Engineering	1 day	Tue 10/4/22	Tue 10/4/22
5	**Design Documents**	**229 edays**	**Thu 9/22/22**	**Tue 5/9/23**
6	**Design Development Documents Phase (30%-50% Design)**	**109 edays**	**Thu 9/22/22**	**Mon 1/9/23**
7	Kickoff Meeting	2 hrs	Thu 9/22/22	Thu 9/22/22
8	Traffic Studies	42 edays	Mon 10/10/22	Mon 11/21/22
9	Geotechnical Analysis	21 edays	Mon 10/10/22	Mon 10/31/22
10	**Schematic Drawings (30%)**	**7 edays**	**Mon 10/31/22**	**Mon 11/7/22**
11	Half-Day Workshop to Review Schematic Drawings	4 hrs	Tue 11/8/22	Tue 11/8/22
12	**Design Development Drawings (50%)**	**20 edays**	**Tue 11/8/22**	**Mon 11/28/22**
23	Design Development Drawings (Complete)	7 days	Tue 11/29/22	Wed 12/7/22
24	**Virtual (50% Design) Project Team Meeting (1 Total)**	**1 day**	**Tue 11/22/22**	**Tue 11/22/22**
26	30-50% Design Review	30 edays	Wed 12/7/22	Fri 1/6/23
27	Design Development Review Meeting	4 hrs	Mon 1/9/23	Mon 1/9/23
28	**Pre-construction Documents Phase (95% Design)**	**90 edays**	**Tue 1/10/23**	**Mon 4/10/23**
29	**Preconstruction Documents - Drawings and Specifications**	**44 edays**	**Tue 1/10/23**	**Thu 2/23/23**
41	Finalize Pre-construction Documents - Drawings and Specifications	11 days	Thu 2/23/23	Thu 3/9/23
42	**Virtual Bi-Weekly (95% Design) Project Team Meetings (3 Total)**	**21 days**	**Wed 1/25/23**	**Wed 2/22/23**
46	95% Design Review	30 edays	Fri 3/10/23	Sun 4/9/23
47	Pre-construction Documents Review Meeting	4 hrs	Mon 4/10/23	Mon 4/10/23
48	**Construction Documents Phase (100% Design)**	**28 edays**	**Tue 4/11/23**	**Tue 5/9/23**
49	Construction Bid Documents - Drawings, Specifications, and Bid Schedule	20 edays	Tue 4/11/23	Mon 5/1/23
50	Final Construction Documents Review Meeting	4 hrs	Tue 5/2/23	Tue 5/2/23
51	Finalize Bid Documents - Drawings, Specifications, and Bid Schedule	7 edays	Tue 5/2/23	Tue 5/9/23



Project: Pineview Reservoir Rec
Date: Wed 9/28/22

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Manual Progress	
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Critical Path Task	
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Progress	Meeting Task	