ReDew Anson

REQUEST FOR PROPOSAL

7/11/2025

PREPARED FOR:

ReDewable

PREPARED BY:

FastGrid

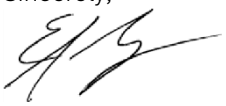
FASTGRID

Dear Talor Byington,

Thank you very much for the opportunity to provide you with a proposal for Civil, Structural, Electrical, and Geotechnical Engineering for the ReDew Anson located in Jones County, TX. We have prepared the following for your consideration and welcome any feedback or questions you may have. We are grateful for the opportunity to team with ReDewable and we will strive to exceed your expectations in delivering an optimal design to achieve your construction objectives. We believe our experience, expertise, and collaborative approach uniquely positions FastGrid to support ReDewable in the engineering and design of this important project.

With our deep experience across the project development and construction life cycle, we recognize the importance of selecting the right partner for a project, and its criticality to the success of your business and we are excited to help you achieve the goals and objectives of your organization. Thank you again for the opportunity to partner with you and we look forward to collaborating on a great project.

Sincerely,



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FASTGRID APPROACH

FastGrid is uniquely positioned to support ReDewable as a partner on the ReDew Anson Project.

Real-time Project Optimization

FastGrid specializes in providing an Owner's Engineer approach to our design projects to assist our clients and their customers by quickly optimizing for multiple solutions simultaneously. FastGrid utilizes our proprietary tools and experience to design a site in real-time with our clients to keep technology options viable until a final procurement decision is made.

Solid Understanding of ReDewable

FastGrid also has a very solid understanding of where ReDewable is trying to position itself in the market through multiple joint client facing meetings, RFP responses, and ongoing project collaboration/engagements. This understanding allows FastGrid the ability to serve as a similarly focused partner to ReDewable, and not just a contractor.

Single Point of Contact

FastGrid understands the importance of this Project and its successful execution. Given this level of importance, and our desire to become a partner, FastGrid will provide a dedicated point of contact for this Project to ReDewable. This contact will provide a direct liaison between all parties to ensure milestones remain achievable and deliverables are on time.

PROJECT OVERVIEW

ReDewable is requesting a proposal to construct ReDew Anson located in Jones County, TX. The Project consists of a 200MWac/200MWh site situated on 10.5 acres.

FastGrid (the "Engineer") will serve as the Engineer of Record (EOR)

General Project Information

Project Name: ReDew Anson
Project Address: Jones County, TX
Main Project Contact: Talor Byington

Exhibit A: ReDew Anson Site Plan

SCOPE OF WORK

Civil

Task BEC1 | BESS Civil 30% Design, Document Review and Basis of Design

Engineering teams will prepare the deliverables per MDL attached.

DOCUMENT REVIEW:

FastGrid will review the Authority Having Jurisdiction's (AHJ) design and permitting requirements and meeting with the AHJ to obtain design and permitting clarifications and interpretations. This includes but is not limited to County, City, State, DOT, FEMA, and USACE.

FastGrid will review Client-provided documents and specifications provided by ReDewable prior to the start of design. The review may include the following documents:

- ALTA Survey
- Cultural Resources Study
- Endangered Species Study
- Geotech Report
- Local Permitting Approvals
- Phase 1 ESA
- Site Plans
- Topo Survey
- Wetlands Studies
- Miscellaneous documents, standards, permit conditions, requirements known by the Client.
- Contact the AHJ, if necessary, and summarize the civil permitting process through the AHJ in the Basis of Design Document prepared as part of this task.

SITE VISIT:

Civil Engineer will conduct a site visit to confirm existing features and take photos to help with the design. An owner's representative will be requested to be present on site.

BASIS OF DESIGN (BOD) DOCUMENT

The criteria and parameters that define the design will be outlined. The Design Basis will be reviewed with the key stakeholders, and all major assumptions regarding means and methods should be discussed at this time. The BOD Document will consist of:

- Roads
- Pad
- Fence
- E&S and Drainage Requirements
- Grading Parameters
- Drainage Requirements

PLAN PREPARATION:

Utilizing the Preliminary Electrical Design the Civil team will locate the roads, perimeter fence and vehicular access gates based on the conceptual array layout provided by the Client or Electrical Engineer. The FastGrid team will coordinate recommended layout changes with Client or Electrical Engineer if equipment is affected by civil site constraints.

CIVIL CONSTRUCTION DRAWINGS

The drawings will be prepared on a 22”x34” sheets unless stated otherwise by client prior to the commencement of this task:

- Cover Page and General Note Sheets
  - FastGrid will prepare one (1) cover sheet and additional notes sheets to include the Project Title, Sheet Index, Project Team, Vicinity Map, Permitting Information, Site Information, Reference Documents, and applicable Civil Construction Notes.
- Existing Condition and Demolition Plans
  - FastGrid will prepare one (1) overall sheet and additional sheets at a scale no coarser than 1” = 100’. These sheets will indicate the existing site features to be protect-in-place, relocated, or demolished and removed.
- Site Plans
  - FastGrid will prepare one (1) overall sheet and additional sheets at a scale no coarser than 1” = 100’. These sheets will show the proposed layouts.
- Grading and E&S Plans
  - FastGrid will prepare one (1) overall index sheet and additional sheets at a scale no coarser than 1” = 100’. These sheets will show the proposed on-site finish grading, surface drainage information, and horizontal control within the project line. These sheets will indicate the proposed erosion and sediment control measures to minimize erosion from the project site to the adjacent properties as required.
    - If a proposed culvert or low water crossing is required, the location will be shown but the size and vertical location will not be designed as part of the 30% Drawings.
- Drainage Plan (if applicable)
  - FastGrid will contact AHJ and determine stormwater requirements. If required a preliminary basin location will be completed and provided on the plans.

BESS CIVIL ASSUMPTIONS, CLARIFICATIONS, & EXCLUSIONS

Please refer to the General Section for further Assumptions, Clarifications and Exclusions. The following apply respectively for Civil Scope only.

ASSUMPTIONS:

- The following information will be provided at LNTP:
    - ALTA, and topographic survey.
        - Existing boundaries, roads, contours, culverts, ditches, utilities, etc. will be provided by the client for design at the project kickoff.
            - All existing drainage culverts will have inverts and sizes.
            - Trees will include heights.
        - Surveys will be provided on state plane coordinates (NAD 83).
        - The Demolition Plan (if applicable) will include items to be removed or abandoned only if provided in the survey.
    - Environmental report including a CAD file with wetlands and streams.
    - The owner will provide all setback and buffer requirements.

CLARIFICATIONS:

- The Scope of Work generally does not include the preparation of a separate/stand-alone specification book.
- Design review meetings will be teleconference.

EXCLUSIONS :

- Permitting support and exhibits
- Improvements to existing roads and road maintenance plan are excluded from this scope.
- Blasting plans and procedures are excluded from this scope.
- Civil cost estimating is excluded from this scope.
- Construction and testing services are excluded from this scope.
- Underground or overhead collection plans are excluded from this space.
- Signage, landscape, and maintenance, utility relocation, and protection of traffic plans are excluded from this scope.

Structural

Task BES1 | BESS Structural 30% Preliminary Design

FastGrid will initiate the project by reviewing key project documentation to develop the basis of design. This includes:

- Reviewing geotechnical reports, pile load testing data, topographic survey, preliminary grading plans, hydrology studies, and tracker system cut sheets.
- Reviewing initial project layout and BESS equipment list, including battery skids, PCS skids, and auxiliary power equipment.
- Documenting applicable design criteria (IBC, ASCE, ACI, etc.), assumptions, and design parameters.
- Coordinating with geotechnical engineers, civil engineers, tracker vendors, and the Owner to confirm the project basis of design.

ANS Geo will perform a preliminary structural analysis and prepare a 30% design package with deliverables per the MDL attached. This scope of work includes the following:

- Initial BESS foundation analysis using client provided equipment specifications and site-specific geotechnical parameters.
- Preliminary design of BESS foundations for major equipment such as Battery skids, PCS equipment, and auxiliary power equipment, using standard driven steel pile or shallow concrete foundations.
- Draft drawings including general notes, foundation layouts, and typical details.
- Simplified structural calculation reports to accompany 30% drawings.
- Coordination meetings with Owner and stakeholders to review assumptions and align on design path.

BESS STRUCTURAL ASSUMPTIONS, CLARIFICATIONS, & EXCLUSIONS

Please refer to the General Section for further Assumptions, Clarifications and Exclusions. The following apply respectively for Structural Scope only.

ASSUMPTIONS:

- Design assumes a single battery skid type within a single soil zone.
- Equipment cut sheets and equipment specific load distributions necessary for design will be provided by the Owner or EPC.
- Foundation types include driven steel piles and shallow concrete pads; other types available for additional fee.
- Geotechnical report and pile load test data will be provided by others.

CLARIFICATIONS:

- Foundation structural design is based on site-specific geotechnical data and Owner-provided loading.
- Equipment skid design is provided by the manufacturer and is not within ANS Geo's scope.
- All drawings will be based on DWG files provided by others; ANS Geo is not responsible for errors in supplied CAD files.
- Pile reveal heights are dependent on grading, racking tolerances, frost depth, and storm water constraints.
- Any substantial changes to the equipment layout, equipment types, or grading plan may require rework and incur additional fees.

EXCLUSIONS :

- Structural design for substation, switchyard, T-Line, and PV Tracker and BOS foundations.
- Structural design for O&M buildings or related infrastructure.
- Equipment base frame or skid design.
- Site-specific construction observation, pile load testing, or geotechnical services (available under separate proposal).
- Preparation of stamped As-Built drawings.
- Foundation/structural design for temporary construction facilities or underground utilities.to existing roads are excluded from this scope.

BESS Electrical

Task BE1 | BESS Electrical 30% Design and Basis of Design

Engineering teams will prepare the deliverables per MDL attached.

DOCUMENT REVIEW:

FastGrid will review the Authority Having Jurisdiction's (AHJ) design and permitting requirements and meeting with the AHJ to obtain design and permitting clarifications and interpretations. This includes but is not limited to County, City, State, IBC, NEC, and IECC.

FastGrid will review Client-provided documents and specifications provided by the ReDewable prior to the start of design. The review may include the following documents:

- ALTA Survey
- Cultural Resources Study
- Endangered Species Study
- Geotech Report
- Local Permitting Approvals
- Phase 1 ESA
- Site Plans
- Topo Survey
- Wetlands Studies
- Miscellaneous documents, standards, permit conditions, requirements known by the Client.

BASIS OF DESIGN (BOD) DOCUMENT

The criteria and parameters that define the design will be outlined. The Design Basis will be reviewed with the key stakeholders, and all major assumptions regarding means and methods should be discussed at this time. The BOD Document will consist of:

- Plant/System Sizing (DC capacity, AC capacity, both MVA and MWh; augmentation strategy)
- Major Equipment (BESS Unit, Inverter, MVT, Auxiliary Power System, Fire Protection System, Cables)
- Site Design Criteria
- Site Design Temperature and Soil data
- MV Collection (Ckt quantity, Cabling, loss requirements)
- Auxiliary Power
- Communications

BUILDABLE AREA AND CONSTRAINTS MAP:

1. Initial assessment of areas suitable for development of the utility scale storage project. Environmental buffers, easements (if previously determined), ROW lines, property lines, vegetation buffers (if applicable), zoning setbacks, landowner setbacks, slope analysis, exclusion zones, SHPO setbacks (if applicable), and special flood hazard areas will be shown on the constraints map.
2. Based on the findings in the constraints map, FastGrid will prepare a buildable area map that depicts the maximum extents the project can build within.

PLAN PREPARATION:

Utilizing the Preliminary Electrical Design the Civil team will locate the perimeter and interior access roads, the perimeter fence and vehicular access gates based on the conceptual array layout provided by the Client or Electrical Engineer. The FastGrid team will coordinate recommended array layout changes with Client or Electrical Engineer if panels or equipment are affected by site constraints or proposed access roads.

ELECTRICAL CONSTRUCTION DRAWINGS AND STUDIES

FastGrid will advance conceptual design, optimize the layout for the assumed equipment selections, and provide major equipment specifications, aiming for layout lock. The overall site layout will be completed based on the relevant major equipment information provided by the Client at project kickoff. Engineer will work directly with the civil engineer to layout the BESS equipment within the civil site constraints, considering access roads and clearances required for constructability and shall be locked no later than two weeks of providing the 30% deliverable. Any Client requested changes to the layout after the 30% deliverable may result in a change. Studies in the 30% package will be performed with the most accurate information available at this stage of design.

BESS ELECTRICAL ASSUMPTIONS, CLARIFICATIONS, & EXCLUSIONS

Please refer to the General Section for further Assumptions, Clarifications and Exclusions. The following apply respectively for Electrical Scope only.

ASSUMPTIONS:

- The scope of this work will be from the DC system to the MV system. The scope demarcation with the substation is assumed to be at the substation fence.
- FastGrid assumes one (1) design package will be required at each milestone. Separate packages are not included in this proposal.
- The collection system short circuit current rating will be limited to 20 kA at the substation bus. If the short circuit current is greater than 20 kA, the substation design will address this to maintain less than 20 kA at the point of demarcation with this scope.
- MV collection system will be designed for underground installation.
- The following information will be provided at LNTP: interconnection agreement, geotechnical engineering investigation, ALTA, and topographic survey. The geotechnical survey should include at a minimum the soil resistance and soil thermal resistivity.
- Changes made after the 30% “site layout lock” may result in change in fee or schedule. This includes, but is not limited to, changes to Battery Cabinet, Inverter, Auxiliary power sources and design approach, site location, site boundaries, interconnection requirements, site constraints, etc.
- Changes made in equipment model numbers may result in change in fee or schedule.
- The BESS project is not being designed to be black-start capable.
- Linework (DC cable, trenches, MV cable, etc.) in CAD deliverables will be approximate and shown for the Contractor’s reference. The linework is not georeferenced and should not be used for coordinates.
- ETAP or software equivalent will be used to conduct the load flow study.
- Utility data will be provided by others and will be included in the model.
- OCPD protection (relay, circuit breaker, etc.) settings at the substation provided by others.
- The client or the construction contractor will be responsible for the permitting process, including the submittal of the drawing package to the appropriate AHJ, serving as primary contact for the AHJ, coordinating the schedule for permit review, receipt of the permit, and site inspection(s). AHJ questions and resulting drawing changes will be addressed.

CLARIFICATIONS:

- FastGrid will coordinate with the SCADA vendor to include any necessary information.
- Record drawings will not be sealed.
- All milestone drawing packages will be per the MDL provided. Any adjustments to the MDL may result in a change order.
- The Scope of Work does not include the preparation of a separate/stand-alone specification book.

EXCLUSIONS :

- Mobilization design and related permits.
- Perform Substantial Completion site review and prepare Punch List Report.
- Perform Final Completion observation and report.
- Overhead MV design is not included in this proposal.
- Fire detection, alarm, security, or firewater system design.
- Emergency response plans.
- Procurement services.
- Cooling for electronic devices.
- Grid connection studies.
- SCADA/DAS design is not included in this proposal.
- Studies not listed in the MDL.
- Permit intake submission and coordination with AHJ for permit intake, payment, status etc.
- Extended construction support beyond what is listed in the construction administration section.
- System commissioning and commissioning coordination services. We assume commissioning of the system components will be completed by Others.
- Attendance at pre-commissioning and commissioning meetings.
- Sales tax.
- Design and consulting related to the interconnection utility, Independent System Operator (ISO) or Balancing Authority.
- Engineer has not accounted for additional comments or standards from Owner's Independent Engineer in this fee. Excessive comments or standards may result in a change order.
- Arc-flash labels.
- The following studies are excluded from Electrical MV scope:
    - Harmonic Study
    - Protective Relay Coordination
    - Transient Over Voltage
    - Temporary Over Voltage
    - Transient Recovery Voltage
    - Loss Report
    - Cable Ampacity Study (AC & DC)
    - Load Flow Study
    - Short Circuit Study
    - BESS Yard Protection Coordination Study
    - Lightning Risk Assessment
    - Insulation Coordination Study
    - Grounding Study
    - Arc Flash Study
- A power flow model (PSLF, PSSE, etc.) will not be developed as part of this scope.
- Fire detection, alarm, security, or firewater system design. Fire walls and/or active or passive fire protection is not included with the exception of MPT oil containment pits which will be designed to standards based on transformer oil volume.
- FastGrid will not use SES CDEGS software for Grounding or Lightning design. Equivalent software such as WinIGS will be utilized.

GENERAL SCOPE OF WORK

Task G1 | Design Coordination (Meetings)

PROJECT DESIGN KICKOFF MEETING:

- Key project stakeholders will participate in a Design Kickoff Meeting via Teleconference after the Limited Notice to Proceed (LNTP) execution. This meeting aims to fully define and confirm the Basis of Design (BOD), major system components and equipment specs, preliminary drawing package sheet count/titles, list of reports, calculation packages and schedule.

WEEKLY DESIGN MEETINGS:

- A design progress meeting shall be conducted on a weekly basis from the Design Kickoff Meeting until the 30% packages are issued. The weekly design progress meeting will be attended by the Engineer's project manager and lead engineer. Our proposal assumes the duration of the meeting will be one hour and the meeting will be conducted via teleconference over a 8-week duration.

MILESTONE REVIEW MEETINGS:

- Each package will be submitted for review. It is assumed a design review meeting will be conducted approximately five business days after the submittal date with the Owner's comments to be reviewed. FastGrid assumes a 30% design review meeting will be conducted via teleconference.
- It is assumed that the meeting will take 2.5 hours and the design lead, engineering lead and EOR will be the technical members attending the meeting.

OWNER'S INDEPENDENT ENGINEER.

- As the level of effort associated with this task is difficult to predict, this task assumes a maximum of ten (10) hours for each discipline will be required to address Owners Engineering comments. If more time is required, additional budget may be requested.

SITE VISITS:

- Civil Engineering has included a site visit during construction for one Civil Engineering lead to visit the site during construction. Additional site visits for additional disciplines or staff can be requested by the client. The consultant will conduct site visits on a time and material basis to observe the general progress of the work applicable to Consultant's design.

CHANGE ORDERS:

- Consultant may recommend Change Orders to the Client and will review and make recommendations related to Change Orders submitted or proposed by the Contractor.

GENERAL ASSUMPTIONS, CLARIFICATIONS, & EXCLUSIONS

ASSUMPTIONS:

- Please refer to the discipline specific sections.

CLARIFICATIONS:

- Record drawings will not be sealed.
- The Scope of Work generally does not include the preparation of a separate/stand-alone specification book.
- Design review meetings will be teleconference.

EXCLUSIONS :

- Mobilization design and related permits.
- Perform Substantial Completion site review and prepare Punch List Report.
- Perform Final Completion observation and report.
- Permit intake submission and coordination with AHJ for permit intake, payment, status etc.
- The following permits are outside of this scope: temporary facility, encroachment/ROW, utility crossing, dust control/air quality, traffic control, driveway access, utility excavation, environmental (wetlands/streams), and grid connection agreement.
- Attendance at pre-commissioning and commissioning meetings.
- Attending in person Authority Having Jurisdiction (AHJ) meetings.
- 60% Engineering Design
- 90%/IFP Engineering Design
- 100%/IFC Engineering Design

GEOTECHNICAL SCOPE OF WORK

Geotechnical Investigation

Task GI1 | Geotechnical Scope

FastGrid's scope of work directly addresses the project's geotechnical needs as described in ReDewable's Request for Proposal (RFP). Our proposed scope is based on our professional experience with similar sized projects and our knowledge of the project area. Our scope of work for the project is as follows:

Scope Item	Proposed Scope
BESS Area	
Borings (40-ft)	6
Test Pits (10-ft)	3
Pile Load Test Locations (2 piles per location; lateral/compression testing on each pile)	2 locations (4 piles)
- Lateral Tests	4 tests
- Compression Tests	4 tests
Field Electrical Resistivity Tests (ERT) – *'a' spacings up to 200-ft*	2
Corrosivity Testing Suites (0-5ft) *(pH, chlorides, sulfates, sulfides, RedOx, lab electrical resistivity)*	3
Thermal Resistivity Tests (TRT) (90%) (3-5ft) – *inc. Proctor testing*	1
California Bearing Ratio (CBR) (1-3ft) – *for roadway design*	1
Free Swell	2
Moisture Content Testing for Expansive Soil Evaluation	33
Soil Index Testing *(Moisture Content, Grain Size Analysis, Atterberg Limits)*	Included
Substation Area	
Borings (50-ft)	2
Test Pits (10-ft)	1
Field Electrical Resistivity Tests (ERT) – *'a' spacings up to 200-ft*	1
Corrosivity Testing Suites (0-5ft) *(pH, chlorides, sulfates, sulfides, RedOx, lab electrical resistivity)*	1
Thermal Resistivity Tests (TRT) (90%) (3-5ft) – *inc. Proctor testing*	1
California Bearing Ratio (CBR) (1-3ft) – *for roadway design*	1
Free Swell	1
Moisture Content Testing for Expansive Soil Evaluation	11
Soil Index Testing *(Moisture Content, Grain Size Analysis, Atterberg Limits)*	Included
Geotechnical Report	Included
OPTIONAL – Gen-Tie Scope	
Optional – Borings (35-ft)	*TBD, 2*
Optional – Soil Index Testing *(Moisture Content, Grain Size Analysis, Atterberg Limits)*	*TBD, Included*

Each scope item identified above is further elaborated in Section 3 of our proposal. Testing and sampling locations will be strategically distributed across the site to efficiently profile and cover the full development area while minimizing data gaps.

INVESTIGATION COORDINATION

- Investigation Location Plan: FastGrid will prepare a comprehensive investigation location plan for the site including proposed sampling and testing locations for ReDewable's review and approval at least five (5) working days prior to site mobilization.
- As is our standard practice for all work, FastGrid will perform a "pre-investigation" survey and take still photographs (electronically dated) of the planned investigation areas prior to the start of work. These photos will help serve as a baseline to evaluate if measurable damage or impacts have been made to the properties as a result of our work.

PRE-FIELD INVESTIGATION

- FastGrid's team will submit required one-call with local utility authorities to provide our intent to dig in accordance with state law.
- FastGrid will familiarize ourselves with the geologic setting, current and past land use, and the potential geohazards which may impact the project.

FIELD EXPLORATIONS

Geotechnical Soil Boring Program

- FastGrid's team will conduct soil borings in accordance with ASTM D1586. Each boring will be advanced using Standard Penetration Testing (SPT) sampling. Soil samples will be collected continuously within the upper 10 feet of each boring, then in five-foot intervals thereafter until the planned termination depth. Upon completion, boreholes will be backfilled with soil cuttings.
- Borings will be completed to the planned termination depths or to top of competent rock, whichever comes first, as follows:
    - Battery-Energy Storage System (BESS) Borings: 40-feet below grade
    - Substation Borings: 50-feet below grade.
    - Optional - Gen Tie Line Borings: 35-feet below grade
- Where groundwater is observed, FastGrid will make short-term observations for groundwater during boring and prior to closure of each borehole. Each boring will be backfilled with cuttings and leveled at grade at completion.
- All SPT samples will be placed in marked jars or double-ziploc bags to preserve moisture content and integrity during shipment to lab and prior to testing. Each container will be noted with boring number, sample number, and sample depth.
- Rock coring is not included in our scope of work; however, if rock is encountered, we will notify ReDewable prior to conducting rock coring at added cost. Rock coring can be completed at an additional cost of +$1,300 per 5-ft core.
- All investigations will be overseen and logged by an FastGrid representative under the direction of a Professional Engineer.
- As is typical with our subsurface investigations, daily progress and schedule e-mail updates will be provided to ReDewable for the duration of the field investigation programs. We will maintain logs of each soil boring, and other investigation points.

Soil and Groundwater Logging

- Our geotechnical staff will maintain logs of the soil and rock material encountered during the investigation in accordance with ASTM D2488 (Visual-Manual Method).
- As is typical of our work, we will note and maintain blow counts, soil description, field measurements, depth to groundwater, and other relevant drilling notes.

Test Pit Program

- FastGrid will advance the above-listed number of test pits for bulk sample collection at the above-listed number of locations. Each test pit will be extended to a depth of 10-feet, top of static water, or depth to refusal, whichever comes first.
- Test pits will be used to evaluate the subsurface profile and collect a five-gallon bucket of soil material for laboratory testing. Upon completion, test pits will be backfilled with native soils.
- FastGrid's staff will maintain test pit logs at each profile, and will denote the change in soil stratigraphy in depth, presence of groundwater, seasonal high water table due to signs of mottling, and other visible features as part of this work.

Field Electrical Resistivity Testing (ERT)

- FastGrid will perform in-field electrical resistivity testing following procedures of ASTM G57 and IEEE Standard 81. At each location, a mutually perpendicular transect will be performed (one North-South, one East-West).
- ERT testing will be completed in accordance with ASTM G57, using the Wenner Four-Electrode Method. We will use an AGI Ministing unit (low-frequency meter) to complete our testing. We will also record atmospheric temperature, weather, and description of ground conditions.
- ERTs will utilize "a" spacings of 5, 10, 15, 20, 25, 50, 75, 100, 150, and 200-feet.

Pile Load Testing Program

- Prior to site mobilization, FastGrid will prepare a pile testing location plan and procedure for performing all aspects of the pull-out testing process, including installation, testing, and removal prior to the performance of pull-out testing for ReDewable's review and approval. Pile load test locations will consist of a single pile, which will be installed and tested across the project area along with test pit excavations at each pile load test location to profile the investigation location. This method will also help profile subsurface risks such as presence and type of shallow rock or cobbles/boulders, excavate-ability for trenching and installation of cabling, the ability to install piles, and pull-out test results for evaluation of embedment.
- Upon approval of the pile testing locations, FastGrid will furnish, deliver, and provide the above-listed number of W6x15 piles to be used for load testing for the project. Each pile will be ordered to a length of 15-feet.
- Each pile load test location will consist of two piles (2 locations, 2 piles per location, 4 piles total) installed to varying embedment depths of 7- to 9-feet below grade. Each pile will be tested for lateral and compression capacities.
- After pile delivery, FastGrid will begin driving piles to the planned embedment depths, performing the number of above-captioned load tests.
- The cost for pile installation into rock or pre-drilling is not included in our scope of work; however, can be completed at an additional cost. Should pre-drilling be required, FastGrid can mobilize a pre-drilling rig at an approximate cost of $3,500, plus $5,500 per day.
- During our load testing program, we will record drive times for each foot of embedment. Pile installation records, including confirming location, drive time, and noting damage during driving, will be completed by FastGrid staff. Piles will be driven with a Vermeer PD10, Gayk 4000 HRE, or similar pile driving rig.
- After pile installation, FastGrid will complete the pile load testing activity. FastGrid will provide one staff, and one laborer to operate a lull to complete the testing program. We will provide our calibrated jack, clamps, load cell, dial gauges and other accessories to complete testing.
- FastGrid's trained geotechnical field staff will oversee the load testing program and conduct the program in general accordance with the following applicable ASTM Standards:
    - Lateral (push) – ASTM D3966
    - Compression – ASTM D1143

- Piles shall set for a minimum of 72 hours prior to testing.
- Lateral loads will be applied at 36-inches above grade.
- Maximum loads during our program will be as follows:
    - Lateral – 5,500 lb
    - Compression – 15,000 lb
- Lateral Load Testing: Lateral loads will be achieved in 500-lb increments up to the target maximum load or failure, whichever comes first. Failure will be noted greater than 1-inch of lateral displacement for lateral testing measured at 6-inches above grade.
- Compression Load Testing: Compression loads will be achieved in 1,000-lb increments up to the target maximum load or failure, whichever comes first. Failure will be noted greater than 1-inch of vertical displacement for compression testing.
- Our field staff will maintain records of the measured vertical displacement and horizontal deflection at each load.
- After load testing sequences have been completed, FastGrid will extract the piles and legally dispose off-site.
- The results of the pile load testing program, including determining active and passive soil pressures, skin friction, end-bearing, strain factor, cohesion, and other LPILE parameters will be summarized within our comprehensive geotechnical report.

LABORATORY TESTING

- Representative soil samples collected during our investigation will be sent to FastGrid's in-house laboratory for testing.
- FastGrid will determine the sample testing program based on the recovered soil from the various testing locations. Samples will be tested in accordance with their applicable ASTM standards, and may include:
    - Grain Size (Sieve) Analysis – ASTM D6913
    - Atterberg Limits – ASTM D4318
    - Moisture Content – ASTM D2216
        - Moisture contents will be tested in one foot intervals at select testing locations to evaluate the moisture profile of the soils and determine a design active zone for expansive soils.
    - One-Dimensional Free Swell – ASTM D4546

Thermal Resistivity Testing

- Thermal Resistivity Testing will include bulk soil samples collected from three (3) to five (5) feet below grade at the number of specified locations.
- Thermal resistivity samples will be tested in accordance with ASTM D5334 at 90 percent Standard Proctor Density (ASTM D698).
- FastGrid will conduct a Standard Proctor on each thermal resistivity sample.

California Bearing Ratio (CBR) Testing

- Supplemental to the soil collection for thermal resistivity, additional material will be obtained at the one to three-foot depth interval, stripped of any topsoil or organics, for California Bearing Ratio (CBR) in accordance with ASTM D1883. Collected soil samples will be submitted to our laboratory and compacted per Standard Proctor (ASTM D698).

Corrosion Testing

- Corrosion testing suites, collected from zero (0) to five (5) feet below grade, will be conducted, including pH determination (ASTM G51), sulfates (ASTM C1580), chlorides (AASHTO T291), soil box resistivity (ASTM G187), and redox potential (ASTM G200).

ENGINEERING ANALYSIS AND GEOTECHNICAL REPORT

- Following our field investigation program, and based on the results from this program, FastGrid will perform an engineering analysis to evaluate the project's subsurface conditions. Our analysis will be completed to summarize the expected subsurface conditions, highlight concerns or areas requiring attention, and provide recommendations for site preparation, installation and design of foundations, and development of geotechnical properties to support other aspects of the project's work.
- Once all aspects of the filed investigation program are completed, FastGrid will prepare a Geotechnical Report for the project. The Geotechnical Report will generally include:
    - Investigation procedures and methodologies
    - Descriptions and stratifications of subsurface conditions and groundwater
    - Summary of laboratory, field electrical resistivity testing, and thermal resistivity testing results
    - Site-wide thermal resistivity value recommendations
    - Summary of Pile Load Testing Program and Results
    - Shallow and deep foundation recommendations and geotechnical design parameters including foundation type, capacities, proposed embedment depths, settlements, summary of expansive soils recommendations, earth pressures, and tabulated LPILE/MFAD parameters (as applicable) for larger pole structures
    - Construction recommendations including site preparation, grading, earthwork, compaction, access roads, excavation, dewatering, corrosion potential, flooding, erosion, liquefaction, expansive soils, and frost considerations and adfreeze values.
    - Seismic site classification and hazards including:
        - Description of nearby faults, liquefaction potential, and settlement
        - Seismic site classification, with soil profile and shear wave velocity
        - USGC Seismic Parameters (S1, Sd1, Ss, Sds, Fa, Fv, PGA)
    - Investigation Location Plans, typed soil boring logs, test pit logs. and pile load testing logs
    - References appendices, including laboratory results and design references

HEALTH AND SAFETY

FastGrid considers Health and Safety as paramount in successfully completing the planned scope of work. FastGrid will follow good housekeeping and safe working practices throughout the duration of our investigation program. Our field personnel and drillers will don the necessary Personal Protective Equipment (PPE), including, but not limited to a hard hat, composite or steel-toed boots, high-visibility outerwear, as well as eye and ear protection.

PROJECT SCHEDULE

FastGrid has implemented many small, medium, and large-scale geotechnical investigation projects and fully understand the demands of this type of project. We understand the need to complete the work expeditiously in order to meet the requirements of ReDewable. Our anticipated schedule is as follows:

Geotechnical Investigation

Task / Milestone	Target Completion
Signed Notice to Proceed (NTP)	**Milestone**
Provide Pre-Field Investigation Plans	NTP + 5 days
Site Mobilization	**NTP + 15 days**
Field Investigation	NTP + 15 – 25 days
Laboratory Testing	NTP + 20 – 30 days
Report Submission	**NTP + 35 days**

If ReDewable would like to compress the schedule, we would be glad to discuss the project time constraints and review efficiencies which may help consolidate the schedule to meet any critical milestone dates. FastGrid will strive to meet the milestone dates and remain open and transparent with ReDewable through regular schedule and progress updates. The schedule has also been created on the basis that any permitting, site access, and site permission requirements are obtained prior to the start of mobilizing field crews as scheduled.

GEOTECHNICAL ASSUMPTIONS

FastGrid's proposal is based on the following assumptions:

- Legal access is provided by ReDewable to each investigation site. This will include coordination with the landowner or tenant, and including opening of gates, approving the removal of any obstructions in path of soil boring, and discussing the planned work. We can provide a short, one-page investigation summary memo at no charge to describe the scope of work to landowners, if requested by ReDewable.
- Preparation or payment for any permit fees is not included with our proposal. If payment of fees are required, we assume that ReDewable will remit permit fees directly to regulatory agencies.
- All field investigations, within all parcels, will be conducted within one uninterrupted mobilization, between 7am to 7pm (local time) with up to seven days per week of work (including weekends) as needed. Separate mobilizations will be billed at direct as-incurred additional mobilization cost.
- "Separate" mobilizations are defined by FastGrid's team being mobilized to the project site, de-mobilized (due to inability to access the site, landowner/owner delay request, or request to postpone schedule), and then re-mobilized to the site under a separate attempt. FastGrid will work with ReDewable to schedule the proposed start date at the site; and, as long as FastGrid can mobilize at the agreed-upon date and complete the investigation under this mobilization, no additional/separate mobilization cost would be incurred.
- Delay downtime caused by a lack of land access or weather will be billed at a rate of $500 per hour, with a not-to-exceed daily maximum of $4,800. In addition, should inclement weather occur, FastGrid will first attempt to mobilize our crew to other portions of the site which may be unaffected by the weather (ie. areas which are not inundated, soft, or difficult to access). Our weather delay will only incur if our crew is mobilized to site and unable to conduct across any location at the project site.
- All work will be completed through soil. Rock coring and/or pre-drilling for piles is not included within our scope, but can be completed at an additional cost, however, may impact the overall schedule.
- Traffic control measures are not expected for this work since work will be completed away from active roadways; therefore, we have not included any flagging or signage.
- Each testing location can be accessed using a four-wheel drive vehicle. Clearing and trimming are not included as part of our scope of work; however, if required, FastGrid can provide a backhoe to complete clearing work at an additional cost of $4,200 per day.
- As is typical with subsurface investigation programs, ReDewable and the landowner/tenant understand that minor surficial disturbance may occur during the completion of the soil borings and pile load testing. The restoration or maintenance of the ground surface prior, during, and after our investigation is not included in this scope of work. If restoration and maintenance is required, we would be glad to provide a cost for this service after the conclusion of our investigation. Any restoration or maintenance costs requested and approved by ReDewable will be paid at cost + 10%.
- Environmental testing and disposal of impacted soils are not included in this proposal. While we will try to avoid work during wet periods or after large rain events; however, FastGrid will not be responsible for rutting or damage caused by our equipment due to unavoidable soft ground conditions. Should the damage be shown to be caused by our negligence or improper care, we will repair the ground conditions at no additional cost to ReDewable.

SCHEDULE

The following schedule will be completed based on specific project requirements and alignment between ReDewable, FastGrid, and other engineering firms. The milestones below assume receipt of all information and documentation outlined in this proposal's scope of work, assumption, and clarifications before the LNTP.

Milestone	Duration
30% Submittal Package for Review	35 BD from Review
ReDewable Review Period	10 BD from 30% Submittal

BD = Business Days

COMPENSATION AND VALIDITY

FastGrid will provide engineering services detailed above based on the following fee schedule. All fees are fixed unless denoted otherwise.

Task	BESS Civil Task Description	Fee	Fee Type
BEC1	BESS Civil 30% Design, Document Review and Basis of Design	$30,100	Lump Sum
G_BEC1	Design Coordination (Meetings)	$2,200	Hourly NTE
	Estimated PV Civil Engineering without Expenses	**$32,300**	

Task	BESS Structural Task Description	Fee	Fee Type
BES1	BESS Structural 30% Design, Document Review and Basis of Design	$18,000	Lump Sum
G_BES1	Design Coordination (Meetings)	$2,500	Hourly NTE
	Estimated BESS Structural Engineering without Expenses	**$20,500**	

Task	BESS Electrical Task Description	Fee	Fee Type
BE1	BESS Electrical 30% Design and Basis of Design	$87,000	Lump Sum
G_BE1	Design Coordination (Meetings)	$11,000	Lump Sum
	Estimated BESS Electrical Engineering without Expenses	**$98,000**	

Task	Geotechnical Task Description	Fee	Fee Type
GI1	Geotechnical Scope	$62,200	Lump Sum
	Estimated Geotechnical Engineering without Expenses	**$62,200**	
Optional	Gen Tie Line Scope (LS)	$6,700	Lump Sum

Total Engineering without Expenses or Optional Tasks	$213,000

Additional Services	Fee	Fee Type
Site Visit (Per Person, Per Visit)	$3,000	Lump Sum

FastGrid will submit invoices based on the monthly overall percentage of services performed and upon reaching specified milestones. The client shall pay any undisputed invoices within thirty (30) days of receiving them. The client has (14) days to notify FastGrid of a dispute upon receipt of the invoice.

If travel is required for this engagement outside of any travel explicitly detailed in the Scope of Work, FastGrid and its consultants shall be reimbursed for all travel-related expenses that do not constitute overhead costs (e.g., time and materials, travel and lodging, food and beverage, printing, and delivery expenses) that are reasonable and incurred in the performance of its obligations as outlined in the above Tasks. All reimbursable expenses will incur a 15% markup.

The fee and schedule herein are valid for 30 days from the date of this letter, after which each is subject to change.

PROPOSAL ACCEPTANCE

FastGrid appreciates the opportunity to present its proposal for engineering services. We look forward to working with you.

If this proposal is acceptable, please sign in the signature block below. Once signed, please return one scanned copy of the complete package to me for our file.

FastGrid

TRAVIS ROSE
CCO

Signed by:
Travis Rose
B7A4A01AC2F6407...

ReDewable

Name: _____

Title: _____

Date: _____

APPENDIX A: DELIVERABLES LIST

Description	30%	Notes
Notes: P = Preliminary		
General		
Basis of Design	x	All disciplines
Civil Bess: Drawings		
Cover Sheet and General Notes	x	
Existing Conditions & Demo Plan	x	
Site Constraints & Buildable Area	x	
Site Plan	x	
Grading and E&S Plan	x	
Drainage Plan	x	If applicable for AHJ
Civil Calculations, Studies, Reports		
Site Visits	x	
Structural PV: Drawings		
Cover Sheet	X	
General Notes and Specifications Drawing	X	
Overall Foundation Layout Drawing	X	
BESS Foundation Sections & Details Drawing	X	
PCS/Inverter Foundation Plan, Sections & Details Drawing	X	
Auxiliary Foundation Sections & Details Drawing	X	
Structural PV: Calculations, Studies, Reports		
Report of Design Calculations	x	
BESS Electrical: Drawings		
Cover Sheet and Index	x	
General symbols, abbreviations, and notes	x	
System Summary Table	x	
Overall site plan	x	
AC & DC single-line electrical diagrams	x	
LV AC/ Aux single-line electrical diagram	x	
AC & DC electrical plans	x	
Trench details	x	
BESS Grounding Layout and Details	x	
MV cable Schedule	x	
Major equipment datasheets	x	