

AIRPORT CONSULTING SERVICES

AUTHORIZATION OF SERVICES NO. 1

Airfield Electrical Improvements
Design, Bid and Construction Administration Services
Task Order No. 1

Whereas the City Bisbee (City/Sponsor) and Dibble and Associates Consulting Engineers, Inc. (Dibble/Consultant) have entered into an Airport Consulting Services Agreement (Agreement) dated May 5, 2026, and is effective for up to three (3) years from said date, both the Sponsor and Consultant wish to enter into a specific Authorization of Services as titled above and detailed by the attached Fee Proposal.

This Authorization of Services, under the articles, terms and conditions of the Agreement, is entered into and effective as of this 15th day September, 2026 by and between:

FOR THE Consultant

Dibble and Associates
Consulting Engineers, Inc.

By: _____


Ryan Toner, PE
Vice President

Date: 09/16/2026

FOR THE Sponsor

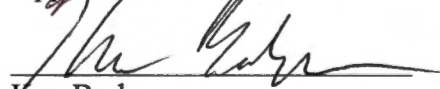
City of Bisbee
Bisbee Municipal Airport

By: _____


Matthew Gurney
Public Works Director

Date: 9-16-2026

Approved as to form:


Ken Budge
Mayor

p 602.957.1155 | 3020 East Camelback Road, Suite 201
f 602.957.2838 | Phoenix, AZ 85016

dibblecorp.com

June 10, 2026

Matthew Gurney
Public Works Director
City of Bisbee
118 Arizona Street
Bisbee, AZ 85603

RE: **AUTHORIZATION OF SERVICES NO. (TBD)**
Design, Bid and Construction Bid Phase Services Fee Proposal
Bisbee Municipal Airport: Airfield Electrical Improvements

Dear Mr. Gurney:

We appreciate the opportunity to provide Design, Bid and Construction Phase services for the Airfield Electrical Improvements project at the Bisbee Municipal Airport in Bisbee, Arizona. This project is being undertaken to address the challenges associated with the aged runway lighting, precision approach path indicators, windcone, and beacon systems including fixtures, cable, constant current regulators, and isolated conduit replacements.

Dibble, as the prime consultant, supported by CR Engineers (Airfield Electrical Inspection) is proposing to complete the Scope of Work, as included in this proposal, for the following fees:

A. Design Phase Services :	\$128,655.00
B. Bid Phase Services:	\$12,089.00
C. Construction Phase Services:	<u>\$165,559.00</u>
TOTAL:	\$306,303.00

Transmitted herewith are our proposed Scope of Work, Fee Summary, Derivation of Fee Proposal, and Estimated Manhours, as well as all subconsultant proposals. We are very much looking forward to working with the City on this important project. If you need additional information or have questions, please do not hesitate to call.

Sincerely,



Jim Cunningham, P.E.
Project Manager,
Airport Development Business Unit
Dibble



Ryan W. Toner, P.E.
Vice President,
Airport Development Business Unit Leader
Dibble

DIBBLE



SCOPE OF WORK

**Design, Bid & Construction Phase Services
City of Bisbee – Bisbee Municipal Airport
Airfield Electrical Improvements**



Dibble and Associates Consulting Engineers, Inc. (Dibble) has been requested by the City of Bisbee (City) to provide Design, Bid and Construction Phase services for airfield electrical improvements at the Bisbee Municipal Airport. This includes replacement of the Runway Medium Intensity Runway Edge Lights (MIRLs), Runway Threshold Lighting, Runway End Identifier Lights (REILs), the 2-Box Precision Approach Path Indicators (PAPIs), replacement of lighted windcone, and the airport rotating beacon fixture. The existing lighting equipment identified to be replaced is beyond its useful life.

The project will include replacing the existing MIRLs with new LED fixtures and new transformers as well as rehabilitation or replacement of the taxiway lighted guidance signage for Runway 17-35. This work includes replacing the constant current regulators (CCRs) and the lighting cable for the runway edge lights and the entire length of the homerun cable to the existing airfield electrical vault as well as replacing the L-821 lighting control panel and L-854 pilot-controlled radio panel. The existing runway edge light base cans and conduit will remain in place unless damage to the infrastructure requires replacement.

Additionally, the project includes replacing the existing PAPIs with LED fixtures for Runway 17-35 including power cable to the airfield electrical vault. Dibble will complete a PAPI siting study to determine if the existing 2-Box PAPI locations are adequate or if the new PAPIs will need to be installed in new locations. An evaluation will be conducted to determine the most appropriate PAPI type for Runway 17-35 (current or voltage-driven). It is currently unknown if Runway 17-35 has electrical current-driven PAPIs, which are typically changed to voltage-driven, when practicable.

This project also involves replacing the lighted primary windcone and a new LED rotating beacon fixture on a new tower, along with any necessary cable and conduit replacements.

Lastly, the existing electrical vault, originally constructed in 1980 will be evaluated for rehabilitation or replacement.

The following key Federal Aviation Administration (FAA) Advisory Circulars (AC) will be used for design:

FAA AC No. 150/5300-13A – Airport Design

FAA AC No. 150/5340-30J – Design and Installation Details for Airport Visual Aids

FAA AC No. 150/5345-53D – Airport Lighting Equipment Certification Program

FAA AC No. 150/5370-2G – Operational Safety on Airports During Construction

FAA Engineering Brief No. 95 – Additional Siting and Survey Considerations for Precision Approach Path Indicator (PAPI) and Other Visual Glide Slope Indicators (VGSI)

It is anticipated that the anticipated design, bid and construction administration cost, including sponsor administration is \$322,425.00 which is expected to be funded by a fiscal year (FY) Airport Improvement Program (AIP) grant. Construction cost is estimated at \$1,065,000 and is also expected to be funded with AIP and Infrastructure Investment and Jobs Act (IIJA) grants including three separate grants/bid schedules:

Schedule I – Rehabilitation of MIRL & REILs	\$700,000
Schedule II - PAPI Replacement	\$205,000
Schedule III – Windcone & Beacon Replacement	\$160,000

The design duration for this project is anticipated to be ten-months. This Scope of Work and Derivation of Fee is reflective of the approximate design and bidding schedule.

Figure 1 below shows the project location:

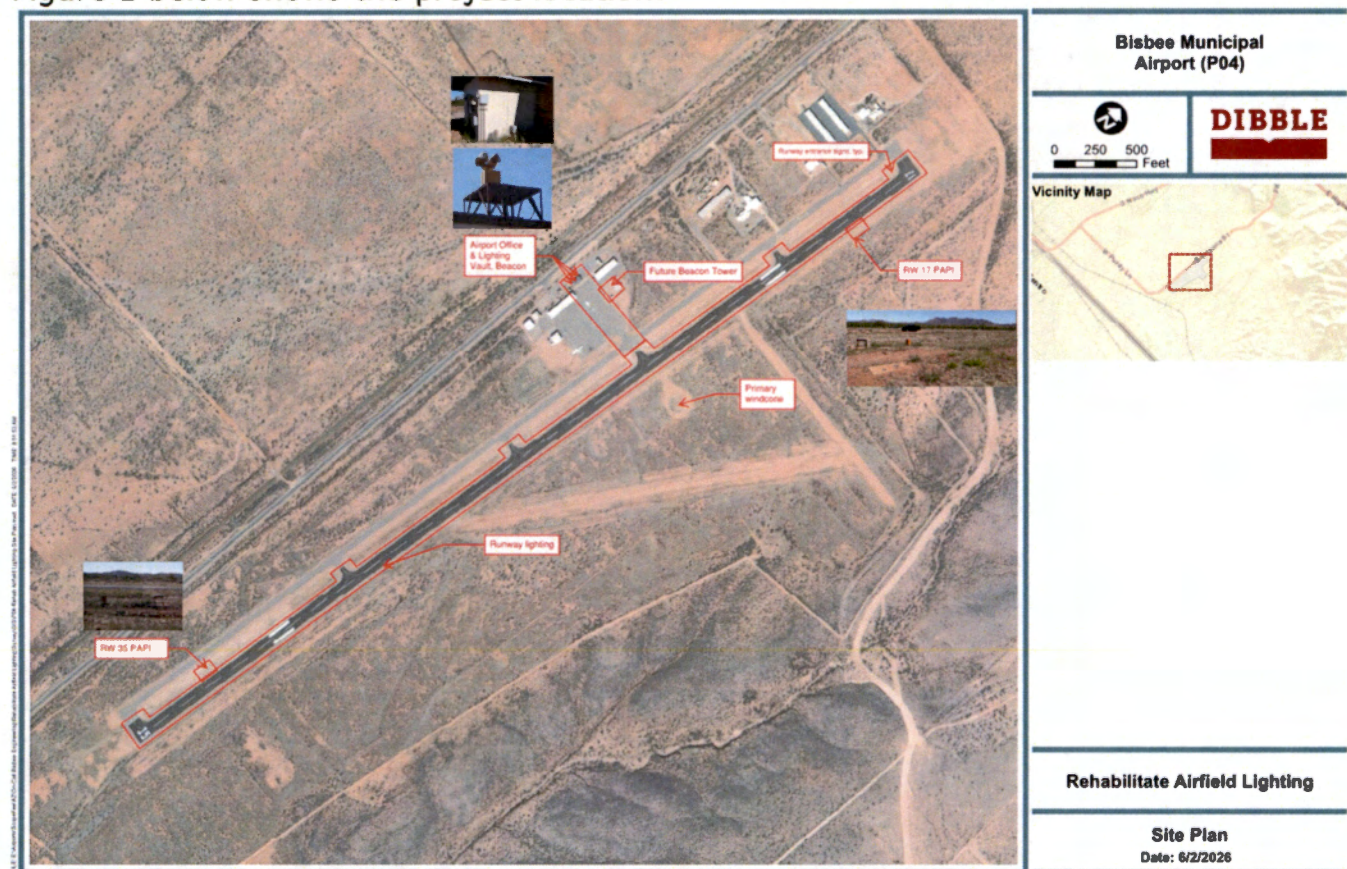


Figure 1 Project Location

DESIGN AND BID PHASE SERVICES

The following specific Design and Bid Phase scope elements are included in this project:

1) General:

- a) **Project Management and Administration:** Dibble will provide project management and coordination of the design team and will provide coordination between design

team members, the City, Airport, and other interested stakeholders. Administration tasks such as file coordination, project printing and deliverable compilation at each submittal level will also be included under this task.

Dibble will make monthly "Design and Progress Reports", including invoicing, to the City of Bisbee in a format acceptable to the City.

- b) Grant Applications and Coordination: Dibble will compile and provide the initial FAA BIL grant application for review by the City, and coordinate updates and modifications with the City for final submission to the FAA. Dibble will also provide the required financial data, such as total project costs and outlay, as well as the project schedule for the ADOT match grant application to the City.
- c) Grant Reimbursement Coordination: Dibble will coordinate with the City's Grant Manager to provide required project data and/or review the monthly FAA and ADOT grant reimbursements for compliance with FAA and ADOT policies.

2) Project Start-Up and Data Collection:

- a) Project Kick-Off Meeting: This meeting will be held with the City and Airport staff at the beginning of the project. Discussion items will include design team, control of correspondence, design standards, design schedule, submittals, and coordination of impacts to airport operations/tenants from survey operations.
- b) Existing Document Research and Coordination: Gather and review available as-built or record drawings, utility maps, design plans, studies, reports and miscellaneous projects at the airport and relevant to this project. This item shall also include contacting utility stakeholders for potential impacts of this project.

3) Field Survey:

- a) Survey Research and Preparation: Dibble will research the existing control points and datum at the airport and in the vicinity of the project and prepare/confirm the survey equipment is calibrated for accurate data collection for this project. The survey crew will also be informed at the Project Kick-Off Meeting (reference Section 2.a) and educated of the project and location specifics so they can be aware of their environment while out in an active airfield. This item shall also include documenting the survey methodology used for data collection and accuracies thereof, along with, use of existing survey control, field photos and notes.
- b) Survey Control Establishment and Field Survey: Dibble will establish horizontal (NAD 83) and vertical control (NAVD 88) in US Survey Feet. Dibble will then collect topographic features and survey shots of infield areas, grades, pavement and other features within the general vicinity of the four existing and proposed PAPI locations as well as the location of existing runway edge lights and junction structures. Topographic features will include survey shots at approximate 25-foot cross-sections in the vicinity of the four existing and proposed PAPI locations at

a 25-foot grid, to include existing pavement edge(s), centerlines, pavement markings, points-of-tangency, points-of-curvature, existing signs, lights, and utilities, and drainage features (toes and tops of swales, culverts, catch basins, etc.) The survey will also include the Runway 17-35 end monuments, so that a centerline can be established and runway end elevations confirmed for PAPI siting calculations.

- c) Survey Base Mapping and QA/QC: Topographic, utility, and civil basemaps will be created from the topographic, pavement and utility infrastructure features collected from the topographic field survey, existing design files, field investigations (pictures and notes), quarter-section maps (if applicable), and record drawings. Also included in this item is the setup of the survey and horizontal control plan sheet. All work will be in accordance with FAA and City of Bisbee standards, where applicable. A registered professional land surveyor will consolidate the data and compare to surveyor field notes and pictures, as well as any other survey data already provided. Any discrepancies that appear to be in conflict will be researched and reviewed. Additionally, the land surveyor will prepare a survey write-up to be included in the Engineer's Design Report that provides a summary of the survey performed, as well as existing site conditions including topographic and utility features.

4) 30% Submittal:

- a) PAPI Siting Analysis: Based on available data from the current Airport Layout Plan (ALP), site survey data, and applicable as-builts/record drawings, including runway end monument data and effective gradient, Dibble will perform a siting analysis for each PAPI unit based on the criteria and equations found in AC's 150/5340-30H and 150/5345-28G, as well as FAA Order 6850.2B, for the purposes of evaluating the existing PAPI locations and proposing new PAPI locations as needed. The siting analysis will be provided to CR for use in the electrical plans.
- b) 30% Design Plans: Dibble shall prepare plan sheets which may include the following: general construction notes, design legend and abbreviations; airport access location, contractor's haul route, staging and storage yard; construction phasing and barricading plans; Storm Water Pollution Prevention Plan (SWPPP) in accordance with Best Management Practices; and electrical plans and details per the attached Scope of Work from CR Engineers.
- c) Draft Engineer's Design Report: The draft engineer's design report shall provide the design criteria and standards used in developing the construction documents (i.e. plans and technical specifications). The report shall cover the following: airport and project descriptions; draft environmental documentation; relevant design standards; and list of anticipated technical specifications. The draft engineer's design report shall also include airport and project location exhibits and appendices such as Engineer's Opinion of Probable Construction Costs, and other design elements as needed to document design intent.

- d) 30% Quantities and Engineer's Opinion of Probable Construction Costs (EOPCC): Based on the preliminary 30% construction plans and technical specifications, develop an EOPCC on a unit price basis. The unit pricing for each line item will be based on recent bid tabulations from comparative projects, locations, materials, and quantities available at that time.
- e) 30% ADOT and City/Airport Review Meeting: This meeting will be held shortly after the 30% Submittal with representatives from ADOT MPD Aeronautics staff and the City and Airport to review the 30% submittal package and review of grant scope and criteria. This meeting is required by ADOT to receive approval to proceed past the 30% submittal stage.
- f) Plans-in-Hand Site Visit: Shortly after the 30% Submittal and before proceeding with the remainder of the project, Dibble and CR will perform a plans-in-hand site visit to visually compare the plans to existing field conditions. Design elements will be reviewed and/or confirmed in the field such as utilities infrastructure and structures (visible in the field), project limits, etc.
- g) Internal QA/QC Project Review: In addition to the regular quality assurance reviews performed by senior practice staff, Dibble also performs additional quality control reviews prior to each submittal utilizing standardized checking processes by Dibble's Quality Director. Each subconsultant will be responsible for their own Quality Assurance/Quality Control program; however, the Quality Director will review all combined project documents for consistency amongst the design elements before each submittal.
- h) Construction Phasing Concept/Stakeholder Meeting: This meeting will be held with City and Airport staff after the 30% submittal to present and discuss preliminary construction phasing concepts with tenants and other relevant stakeholders. Stakeholder questions and concerns will be accounted for, coordinated with City and Airport staff, and responded to within two (2) weeks following this meeting. Preferred alternatives, with phase durations, will be included as part of the Final Construction Safety and Phasing Plan at the 95% Submittal stage.

5) 95% Pre-Final Submittal:

- a) 95% (Pre-Final) Design Plans: The pre-final plans submission shall include those plan sheets noted in Section 4b and shall also include detailed construction phasing and aircraft detouring plans.
- b) 95% (Pre-Final) Contract Documents and Technical Specification: Pre-final contract documents, technical specifications, special provisions, FAA general provisions will be compiled and developed for final review/approval by the City and Airport. This set will also be coordinated with the City's designated representative to determine project advertisement and bidding dates.

- c) Pre-Final Engineer's Design Report: The pre-final engineer's design report shall provide all the design criteria and standards used in developing the construction documents (i.e. plans and technical specifications) and document the work and results of investigative efforts. This will be provided to the City/Airport at this submittal level for final review and approval.
- d) Final Construction Safety and Phasing Plan (CSPP): The final CSPP will be included as an appendix to the Contract Documents. The CSPP will be prepared in accordance with the most recent edition of FAA AC 150/5370-2G.
- e) 95% Quantities and EOPCC: Based on the pre-final 95% construction plans and technical specifications, develop an EOPCC on a unit price basis. The unit pricing for each line item will be based on recent bid tabulations from comparative projects, locations, materials, and quantities available at that time.
- f) 95% ADOT, City/Airport Review Meeting: This meeting will be held shortly after the 95% Submittal with representatives from ADOT MPD Aeronautics and the City/Airport to review the 95% submittal package, and discuss any comments from the City and Airport, and for the purpose of approval to bid the project. This approval is required by ADOT for bidding the project.
- g) Internal QA/QC Project Review: In addition to the continual quality assurance reviews performed by senior airport staff, Dibble also performs additional quality control reviews prior to each submittal utilizing standard checking processes by Dibble's Quality Director. Each subconsultant will be responsible for their own Quality Assurance/Quality Control program; however, the Quality Director will review all combined project documents for consistency amongst the design elements before each submittal.
- h) Obstruction Evaluation & Airport Airspace Analysis (OE/AAA) Coordination: An FAA Notice of Construction or Alteration (FAA Form 7460-1) with a Site Exhibit will be submitted to the FAA Airspace Review (OE/AAA) website for processing approximately 45 calendar days before bidding the project.
- i) PAPI Flight Check Coordination: Dibble will coordinate with the FAA Air Traffic Organization (ATO) to schedule the Flight Check to commission the PAPIs post construction.

6) 100% Bid Submittal:

- a) 100% Bid Plans: Sealed plans shall have all internal and external review comments by the City and Airport incorporated and addressed and modifications made during final site visits. Plans shall include all sheets noted in Sections 4b. and 5a.
- b) Bid Contract Documents and Technical Specification: The final bid contract documents, technical specifications, and special provisions shall have all internal and external review comments by the City and Airport incorporated and

addressed. The bid contract documents, and technical specifications will be issued for bidding and construction.

- c) Bid Quantities and EOPCC: Based on the bid construction plans and technical specifications, provide a final bid schedule of line items in the contract documents and a final EOPCC.
- d) Final Engineer's Design Report: The final engineer's design report shall provide the design criteria and standards used in developing the construction documents (i.e. plans and technical specifications) and document the work and results of investigative efforts. The final report shall also address any review comments received from internal and external reviews, including the City and Airport.
- e) Internal QA/QC Project Review: The Dibble Quality Director will provide a final review prior to submittal of sealed plans. This check will include a review of all combined project documents for consistency amongst the design elements before each submittal.

7) Bid Phase Services:

- a) Project Management and Administration: Dibble will provide project management and coordination of the design team, and will provide coordination between design team members, the City, and other interested stakeholders as needed.

Administration tasks such as file coordination and project printing during the bid phase will be included under this task.

- b) Pre-Bid Meeting: Dibble will attend the pre-bid meeting and assist the City/Airport in conducting as needed. Dibble, upon the request of the City, will provide a brief overview of the project and contract components, identifying important elements within the documents that the Contractors should be particularly familiar with prior to submitting a bid. Dibble shall also assist the City in developing and submitting the pre-bid meeting minutes.
- c) Bid Addendums: Pending contractors' reviews, comments, and questions, Dibble will assist the City in developing and issuing up to two (2) addendums, including revisions to contract documents (i.e. plans and technical specifications). It should be noted that the hours provided in the *Estimated Manhour* matrix contained herein is estimated for a maximum of two (2) addenda.
- d) Contractor Questions: Dibble will coordinate, address, and appropriately respond to contractor communications and questions during the bidding process. Responses will be submitted through addenda as needed.
- e) Bid Tabulation and Recommendation: Dibble will evaluate each bid submitted for mathematical/calculative errors and for comparative purposes against the Engineer's Opinion of Probable Construction Cost and other bids submitted.

Dibble will provide a bid summary letter stating inconsistencies and results and a recommendation for the lowest responsible, responsive bidder.

8) Airfield Electrical Consulting Services (CR Engineers)

For the design and bid phases, CR will provide the electrical drawings, specifications, quantities and estimates for the replacement of the runway edge and threshold lighting, lighted signs, REILs, including all fixtures, runway lighting cable and new cable for the homerun from the airfield lighting vault to the runway including new constant current regulators. Additionally, their designs will include lighting vault rehabilitation, the replacement of two PAPIs including power cable, the lighted windcone, L-821 panel, L-854 radio, and the rotating beacon on a new tower.

For the bidding phase, CR will assist during the pre-bid meeting and assist with construction questions.

Refer to CR Engineers' Scope of Work (attached) for additional information.

9) Design Project Deliverables

- a) 30% Submittal: 30% plans, Draft Engineer's Design Report and 30% quantities and Engineer's Opinion of Probable Construction Cost. Dibble will provide submittals through Microsoft SharePoint. If requested, two (2) hard copies of half-size 11"x17" plans will be provided, as well as a CD of electronic (PDF) versions of all documents.
- b) 95% Pre-Final Submittal: 95% pre-final plans, pre-final contract documents and specifications, 95% quantities and Engineer's Opinion of Probable Construction Costs, Pre-Final Engineer's Report, and Final Construction Safety and Phasing Plan. Dibble will provide submittals through SharePoint. Dibble will provide submittals through Microsoft SharePoint. If requested, two (2) hard copies of half-size 11"x17" plans will be provided, as well as a CD of electronic (PDF) versions of all documents.
- c) 100% Bid-Ready Submittal: 100% sealed bid-ready plans, contract documents and specifications, 100% quantities and Engineer's Opinion of Probable Construction Costs and Final Engineer's Report. Dibble will provide submittals through Microsoft SharePoint. If requested, two (2) hard copies of full-size 24"x36" and half-size 11"x17" plans will be provided as well as a CD of electronic (PDF) versions of all documents.

10) Miscellaneous

This proposal is based on an estimated 10-month design schedule (July 2026 – April 2027) with bidding anticipated in May 2027. A detailed design schedule is attached for additional information.

All plans are to be prepared in AutoCAD Civil 3D 2023.

11) Exclusions Design and Bid Phase Services

- a) Environmental Clearance (Simple CATEx provided by Coffman)
- b) Landscape and Irrigation
- c) Geotechnical investigations
- d) Pavement design
- e) Grading and Drainage design
- f) Printing/plotting of bid sets for Contractor pickup/use.

CONSTRUCTION PHASE SERVICES (T&M)

This Scope of Work and Derivation of Fee are reflective of all the construction administration and inspection services associated with all three Bid Schedules. The services will involve providing pre-construction services, part-time construction administration and full-time inspection/observation services for 90 calendar days, as well as post construction services.

The following specific scope elements are included in this project:

12) Project Management & Administration:

- a) Between Bid Award and Project Closeout, Dibble will provide overall project management and coordination of subconsultants as well as communication with the City and Airport. This includes reviewing and enforcing the Contractor's Safety Plan Compliance Document (SPCD), review and coordination of the construction schedule, evaluating Contractor requests for extra work and/or time extensions, and change orders. Estimated hours to complete these tasks are provided in the attached man-hour and fee spreadsheets.

13) Pre-Construction Conference:

- a) Dibble will conduct the Preconstruction Conference and provide support and/or coordination of the construction documents as needed. Dibble will prepare and provide the meeting agenda and sign-in sheet, facilitate the meeting, and issue meeting minutes. The Preconstruction Conference will be held at the Airport.

14) Contractor Submittal and RFI Review:

- a) Shop Drawing Review & Coordination - Review and provide a response to the civil construction material and general project submittals. A total of 20 submittals are estimated and Dibble will respond to approximately 4 of the 20 submittals. For the electrical submittals, Dibble will coordinate with CR Engineers and pass through the documents to and from the Contractor.
- b) RFI Review & Coordination - Coordinate, review, and provide a response to civil construction and general project Requests for Information (RFI), (estimated at

approximately 6 RFI's). For electrical RFIs, Dibble will coordinate with CR Engineers to pass through the documents to and from the Contractor.

- c) ESI Development & Coordination - Coordinate, review, and develop necessary Engineering Supplemental Information (ESI) documents, additional details, or sketches as revisions to the construction specifications and/or plans, (estimated at approximately 4 ESI's). The CR Engineers will review and prepare the electrical ESI's in addition to the ones noted herein.

15) Construction Meetings/Site Visits/Documentation Coordination:

- a) Coordinate weekly construction meetings which includes developing and distributing meeting agendas, sign-in sheets, and meeting minutes as well as conduct regular site visits during the course of construction, to provide on-site engineering support and project management one (1) day per two weeks, and virtual meeting attendance between site visits.
- b) Review Quality Control (QC) material test results.
- c) Regularly review and track project quantities in the field and on the Contractor's As-Builts. Coordinate these inspected quantities with the Contractor and coordinate prior to the submittal of monthly payment applications.
- d) Grant Reimbursement Coordination: Dibble will coordinate with the City's Grant Manager to provide required project data and/or review the monthly FAA and ADOT grant reimbursements for compliance with FAA and ADOT policies.
- e) Dibble will assist the City with the completion of the required ADOT and FAA weekly reports.
- f) Dibble will conduct contractor employee interviews and review contractor's payrolls for federal compliance.

16) Walkthroughs:

- a) Coordinate and attend the substantial completion walk-through meeting as well as issue the substantial completion letter along with the combined punch list.
- b) Coordinate and attend the final walk-through meeting and issue the final acceptance letter.

17) Project Closeout:

- a) Prepare Final Record Drawings based on Contractor redlines and field changes issued during construction.
- c) Prepare and compile the Final Engineer's Construction Report.
- d) Assist the City of Bisbee with the completion of required FAA and ADOT grant closeout paperwork.

18) Electrical Construction Inspection (CR Engineers)

CR Engineers will perform full time construction inspection/observation for the electrical elements of the work such as the underground conduit and cable installation, and light fixture installation. CR Engineers will also perform reviews of electrical material submittals/shop drawings and respond to RFI's and issue ESI's as

needed. Electrical Record Drawings and information required for the compilation of the Final Engineer's Construction Report will be provided by CR Engineers after construction is complete.

Refer to the attached detailed Scope of Work provided by CR Engineers for more information.

19) Miscellaneous

- a) All plans (Record Drawings) are to be prepared in AutoCAD Civil 3D 2023 (or current version used by the City). All work will be prepared in conformance to City Standards.
- b) The Engineer will make monthly "Progress Reports" during the monthly On-Call Coordination meetings, and will submit monthly invoices for the duration of the contract.
- c) The Close-Out submittal for the project will include electronic files of the Record Drawings, the Final Engineer's Construction Report, and all additional required closeout documentation provided by the Contractor.

END OF SCOPE OF WORK

Firm: Dibble Engineering
 Bisbee Municipal Airport
 Project: **Airfield Electrical Improvements**
Design, Bid & CA Services
 Bisbee, AZ
 Date: 6/8/2026

DIBBLE



Contract Number: N/A
 Project Number: TBD
 Task Number: 1
 Amendment Number: N/A
 ADOT Number:

Summary	Dibble	Subs	Total
A. Design Phase Services	Fee	Fee	
1 Dibble Base Fee.....	\$62,955.00	-	
2 Dibble Direct Costs.....	\$935.00	-	
4 Airfield Electrical Engineering (CR Engineers).....	-	\$64,765.00	
Design Phase Subtotal.....	\$63,890.00	\$64,765.00	\$128,655.00
B. Bid Phase Services	Fee	Fee	
1 Dibble Base Fee.....	\$7,268.00	-	
2 Dibble Direct Costs.....	\$145.00		
3 Airfield Electrical Engineering (CR Engineers).....	-	\$ 4,676.00	
Bid Phase Subtotal.....	\$7,413.00	\$4,676.00	\$12,089.00
C. Construction Phase Services (T&M)	Fee	Fee	
1 Dibble Base Fee.....	\$63,126.00	-	
2 Dibble Direct Costs.....	\$1,704.00		
3 Airfield Electrical Engineering (CR Engineers).....	-	\$ 100,729.00	
Construction Phase Subtotal.....	\$64,830.00	\$100,729.00	\$165,559.00
Total (Schedule I).....			\$306,303.00

Firm: Dibble Engineering
 Bisbee Municipal Airport
 Project: **Airfield Electrical Improvements**
Design, Bid & CA Services
 Bisbee, AZ
 Date: 6/8/2026

Contract Number: N/A
 Project Number: TBD
 Task Number: 1
 Amendment Number: N/A
 ADOT Number: 0

DERIVATION OF FEE PROPOSAL SUMMARY

BASIC FEE - DESIGN PHASE

Classification	Manhours	2020 Bill. Rate	TOTAL	
1 Principal Engineer	9	\$325.00	\$2,925.00	
2 Senior Project Manager	94	\$257.00	\$24,158.00	
3 Project Engineer	90	\$184.00	\$16,560.00	
4 Asst. Project Engineer (EIT)	24	\$155.00	\$3,720.00	
5 Senior Designer	12	\$180.00	\$2,160.00	
6 Designer	28	\$143.00	\$4,004.00	
7 Land Survey Manager (RLS)	14	\$230.00	\$3,220.00	
8 Survey Crew (2-man)	24	\$222.00	\$5,328.00	
9 Administrative Asst.	8	\$110.00	\$880.00	

Total 303 hrs

*All rates are per 2026-2027 Billing Rate Sheet

Total Basic Fee..... **\$62,955.00**

DIRECT COSTS

(Listed by Item at Actual Cost - NO MARKUP)

Item	Cost	
1 Submittal Printing (Dibble).....	\$ 500.00	As-Needed (Allowance)
2 Mileage (3 trips @ 200 miles) (Dibble).....	\$ 435.00	Reimbursement
f. Sub-Total Allowances for Direct Costs.....		\$935.00

ADDITIONAL COSTS, OUTSIDE SERVICES & SUBCONSULTANTS

Firm	Cost	Method of Compensation
1 Airfield Electrical Engineering (CR Engineers).....	\$ 64,765.00	Lump Sum
g. Sub-Total Allowance for Add'l Costs:		\$64,765.00

TOTAL FEE

h. Total Estimated Cost to Consultant....(e. + f.) **\$128,655.00**

Firm: Dibble Engineering
 Bisbee Municipal Airport
 Project: Airfield Electrical Improvements
 Design, Bid & CA Services
 Bisbee, AZ
 Date: 6/8/2026

Contract Number: N/A
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ESTIMATED MANHOURS - DESIGN PHASE										
TASK	PRINCIPAL ENGINEER	SR. PROJECT MANAGER	PROJECT ENGINEER	ASST. PROJ. ENG. (EIT)	SENIOR DESIGNER	DESIGNER	LAND SURV. MGR. (RLS)	SVY. CREW (2-MAN)	ADMIN ASST.	TOTAL HOURS
1 General Administration										
1a Project Management & Administration	4	24							8	36
1b Grant Applications & Coordination		8								8
1c Grant Reimbursement Coordination		2	4							6
2 Project Start-Up and Data Collection										
2a Project Kick-Off Meeting		2	4							6
2b Existing Document Research & Coordination			4	2						6
3 Topographic/Field Survey Activities										
3a Survey Research & Preparation							2			2
3b Control Establishment and Field Survey								24		24
3c Survey Base Mapping and QA/QC						12	12			24
4 30% Submittal										
4a PAPI Siting Analysis		2	6		4					12
4b 30% Design Plans	2	4	8	4		4				22
4c Draft Engineer's Design Report		2	4	2						8
4d 30% Quantities and EOPCC		1	4	2						7
4e 30% ADOT, City/Airport Review Meeting		1	4							5
4f Plans-in-Hand Site Visit		6	6							12
4g Internal QA/QC Project Review		8								8
4h Construction Phasing Concept/Stakeholder Mtg.		2	2							4
5 95% Pre-Final Submittal										
5a 95% (Pre-Final) Design Plans	2	2	4	4		4				16
5b 95% (Pre-Final) Contract Doc's and Technical Specs		2	4							6
5c Pre-Final Engineer's Design Report		2	4							6
5d Final Construction Safety & Phasing Plan		2	4	2						8
5e 95% Quantities and EOPCC		2	2	2						6
5f 95% ADOT, City/Airport Review Meeting		2	2							4
5g Internal QA/QC Project Review		8								8
5h OE/AAA Coordination and Submittal			4		8					12
5i PAPI Flight Check Coordination		2	6							8
6 100% Bid Submittal										
6a 100% Bid Plans	1	2	4			8				15
6b Bid Contract Doc's and Technical Specs		2	4	2						8
6c Bid Quantities and EOPCC			2	2						4
6d Final Engineer's Design Report		2	4	2						8
6e Internal QA/QC Project Review		4								4
TOTALS	9	94	90	24	12	28	14	24	8	303

303

Direct

@ \$325.00 @ \$257.00 @ \$184.00 @ \$155.00 @ \$180.00 @ \$143.00 @ \$230.00 @ \$222.00 @ \$110.00

Firm: Dibble Engineering Bisbee Municipal Airport Project: Airfield Electrical Improvements Design, Bid & CA Services Bisbee, AZ DATE: 6/8/2026	Contract Number: N/A Project Number: TBD Task Number: 1 Amendment Number: N/A ADOT Number: 0
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DERIVATION OF FEE PROPOSAL SUMMARY

BASIC FEE - BID PHASE				
Classification	Manhours	2020 Bill. Rate	Labor Costs	
1 Principal Engineer	2	\$325.00	\$650.00	
2 Senior Project Manager	10	\$257.00	\$2,570.00	
3 Project Engineer	22	\$184.00	\$4,048.00	
4 Asst. Project Engineer (EIT)	0	\$155.00	\$0.00	
5 Senior Designer	0	\$180.00	\$0.00	
6 Designer	0	\$143.00	\$0.00	
7 Survey Crew (2-man)	0	\$222.00	\$0.00	
8 Administrative	0	\$110.00	\$0.00	
Total		34 hrs		

*All rates are per 2026-2027 Billing Rate Sheet

Total Basic Fee..... **\$7,268.00**

ALLOWANCE FOR DIRECT COSTS

(Listed by Item at Actual Cost - NO MARKUP)

Item	Cost	
1 Mileage (1 trips @ 200 miles) (Dibble).....	\$ 145.00	Reimbursement
f. Sub-Total Allowances for Direct Costs.....		\$145.00

ALLOWANCE FOR ADDITIONAL COSTS, OUTSIDE SERVICES & SUBCONSULTANTS

Firm	Cost	Method of Compensation
1 Airfield Electrical Engineering (CR Engineers).....	\$ 4,676.00	Lump Sum
g. Sub-Total Allowance for Add'l Costs:		\$4,676.00

TOTAL FEE

g. Total Estimated Cost to Consultant....(e. + f.)	\$12,089.00
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Firm:	Dibble Engineering Bisbee Municipal Airport	Contract Number: N/A Project Number: TBD Task Number: 1 Amendment Number: N/A ADOT Number: 0
Project:	Airfield Electrical Improvements Design, Bid & CA Services Bisbee, AZ	
Date:	6/8/2026	

ESTIMATED MANHOURS - BID PHASE										
TASK	PRINCIPAL ENGINEER	SR. PROJECT MANAGER	PROJECT ENGINEER	ASST. PROJ. ENGINEER	SENIOR DESIGNER	DESIGNER	LAND SURV. MGR. (RLS)	SVY. CREW (2-MAN)	ADMIN ASST.	TOTAL HOURS
7 Bid Phase Services										
7a Project Management & Administration	2	4	6							12
7b Pre-Bid Meeting			6							6
7c Bid Addendums		2	4							6
7d Contractor's Questions		2	2							4
7e Bid Tabulation and Recommendation		2	4							6
TOTALS	2	10	22	0	0	0	0	0	0	34

34

Direct @ \$325.00 @ \$257.00 @ \$184.00 @ \$155.00 @ \$180.00 \$143.00 @ \$230.00 @ \$222.00 @ \$110.00

Firm: Dibble Engineering
 Bisbee Municipal Airport
 Project: **Airfield Electrical Improvements**
Design, Bid & CA Services
 Bisbee, AZ
 DATE: 6/8/2026

Contract Number: N/A
 Project Number: TBD
 Task Number: 1
 Amendment Number: N/A
 ADOT Number: 0

DERIVATION OF FEE PROPOSAL SUMMARY

BASIC FEE - CA PHASE (T&M)				
Classification	Manhours	2020 Bill. Rate	Labor Costs	
1 Principal Engineer	4	\$325.00	\$1,300.00	
2 Senior Project Manager	98	\$257.00	\$25,186.00	
3 Project Engineer	132	\$184.00	\$24,288.00	
4 Asst. Project Engineer (EIT)	76	\$155.00	\$11,780.00	
5 Senior Designer	0	\$180.00	\$0.00	
6 Designer	4	\$143.00	\$572.00	
7 Survey Crew (2-man)	0	\$222.00	\$0.00	
8 Administrative	0	\$110.00	\$0.00	
Total		314 hrs		

*All rates are per 2026-2027 Billing Rate Sheet

e. Total Basic Fee..... **\$63,126.00**

ALLOWANCE FOR DIRECT COSTS

(Listed by Item at Actual Cost - NO MARKUP)

Item	Cost	
1 Mileage (8 trips @ 200 miles) (Dibble).....	\$ 1,160.00	Reimbursement
2 Meals (8 days @\$68.00) (Dibble).....	\$ 544.00	Reimbursement
3 Mileage (45 trips)(CR Engineers).....	\$ 3,859.00	Reimbursement
4 Per Diem & Meals (45 days @\$178) (CR Engineers).....	\$ 8,010.00	Reimbursement

f. Sub-Total Allowances for Direct Costs..... **\$13,573.00**

ALLOWANCE FOR ADDITIONAL COSTS, OUTSIDE SERVICES & SUBCONSULTANTS

Firm	Cost	Method of Compensation
1 Airfield Electrical Engineering (CR Engineers).....	\$ 87,156.00	T&M
g. Sub-Total Allowance for Add'l Costs:		\$87,156.00

TOTAL FEE

g. Total Estimated Cost to Consultant....(e. + f.) \$163,855.00

Firm: Dibble Engineering
 Bisbee Municipal Airport
 Project: Airfield Electrical Improvements
 Design, Bid & CA Services
 Bisbee, AZ
 Date: 6/8/2026

Contract Number: N/A
 Project Number: TBD
 Task Number: 1
 Amendment Number: N/A
 ADOT Number: 0

ESTIMATED MANHOURS - CA PHASE										
TASK	PRINCIPAL ENGINEER	SR. PROJECT MANAGER	PROJECT ENGINEER	ASST. PROJ. ENGINEER	SENIOR DESIGNER	DESIGNER	LAND SURV. MGR. (RLS)	SVY. CREW (2-MAN)	ADMIN ASST.	TOTAL HOURS
1 General Administration										
1a Project Management and Administration	4	40								44
2 Pre-Construction Conference:										
2a Pre-Construction Conference		8	8	8						24
3 Contractor Submittal and RFI Review										
3a Shop Drawing Review and Coordination		2	4	4						10
3b RFI Review and Coordination		4	4	2						10
3c ESI Development and Coordination		2	4	4						10
4 Meetings/Site Visits/Paperwork Coordination										
4a Weekly Meetings and Site Visits		12	36	12						60
4b Testing Report Review and Coordination			4	4						8
4c Payment Application Review		2	8	2						12
4d Grant Reimbursement Coordination		4	8							12
4e ADOT & FAA Weekly Reports		2	8	8						18
4f Labor Standards Compliance		2	12	8					8	30
5 Walkthroughs										
5a Substantial Completion Walkthrough		8	8	8						24
5b Final Walkthrough			8							8
6 Project Closeout										
6a Record Drawings		4	4	4		4				16
6b Final Construction Report		4	8	8						20
6c Grant Closeout Coordination		4	8	4					4	20
TOTALS	4	98	132	76	0	4	0	0	12	326

326

Direct @ \$325.00 @ \$257.00 @ \$184.00 @ \$155.00 @ \$180.00 \$143.00 @ \$230.00 @ \$222.00 @ \$110.00



June 8, 2026

Dibble Engineering
3020 East Camelback Rd., Suite 201
Phoenix, Arizona 85016

Attn.: Mr. Jim Cunningham, P.E.

Re: Bisbee Airport
Airfield Electrical Improvements
Revised Proposal for Electrical Engineering Design, Bid Assistance, and Construction Phase
Services
CRE Proposal No.: 26021

Dear Jim,

We thank you for choosing our firm to work as your electrical engineer for the above project. We are pleased to present our revised proposal in the listed attachments below.

Scope of Work
Fee Proposal

This proposal will be valid for the next ninety (90) days, and we reserve the right to renegotiate it if it has not been accepted within that period. Should conditions of the work change so as to materially affect the level of effort or the time required, then equitable adjustments to fee and schedule will be made. Consultant will notify Client when a changed condition becomes apparent. Failure of Client to provide a timely and equitable adjustment is cause for termination by Consultant.

We will bill you for services rendered to date. Payment will be due within thirty (30) days of billing date.

Please do not hesitate to call if you have any questions.

Sincerely yours,

CR ENGINEERS, INC.

A handwritten signature in blue ink, appearing to read 'Catherine Alcorn'.

Catherine Alcorn, P.E.
President

O:_26000\26021 Bisbee Airport Replace Runway Lightng and Beacon\CRE Proposal 26021.docx

SCOPE OF WORK

BISBEE AIRPORT – AIRFIELD ELECTRICAL IMPROVEMENTS DESIGN, BID ASSISTANCE, & CONSTRUCTION ADMINISTRATION AND INSPECTION SERVICES

Prepared by CR Engineers, Inc.
JUNE 8, 2026

CR Engineers (CRE) shall prepare electrical designs, plans, specifications, quantities, and estimates, for the reconstruction of the airfield lighting associated with the MIRL (medium intensity runway lighting), airfield guidance signage, primary windcone, beacon, PAPIs, REILs, and constant current regulator replacements at Bisbee Airport.

The electrical design will include the following components:

- Specification for removal of the existing incandescent runway edge and threshold lights and isolation transformers in existing L-867 base cans and the existing 5KV airfield lighting. The existing L-867 base cans and underground PVC conduit infrastructure will remain in place.
- Specification for disconnection and removal of the existing 5KV airfield lighting cable associated with the runway airfield lighting circuits.
- Specification for replacement (either in its entirety or sign panels and/or LED light retrofit kits) associated with the existing airfield guidance signage. An evaluation of existing sign base locations per current FAA AC requirements will also be performed.
- Design of new LED Medium Intensity Runway and Threshold Lights (MIRLs) including isolation transformers and 5KV cable back to the airfield electrical vault.
- Specification for replacement of the existing 2 box PAPI system and associated circuit cabling. Verification of existing siting location and aiming specifications shall be provided by Dibble Engineering.
- Specification for replacement of the existing REILs with new LED REILs and associated circuit cabling.
- Specification for replacement of the existing primary windcone with new LED L807 internally lit primary windcone and associated circuit cabling.
- Specification for replacement of the existing beacon mounted on the existing terminal with new LED beacon with tower and associated circuit cabling.
- Possible specification for a new L-821 panel, L-854 radio, and other power distribution equipment within existing airfield lighting vault if after inspection, these components are deemed in need of replacement. A portable generator plug will also be designed for standby power capabilities.
- Replacement of the existing constant current regulator (CCR) in the existing electrical airfield lighting vault with new ferroresonant CCR to accommodate the reduced LED lighting loads. Required power distribution modifications to the new CCR will be provided including S1 cutouts for maintenance and testing.

1. Airfield Traffic Analysis/Phasing

CRE will assist in electrical issues related to the construction phasing study and plans for the construction within the runway and taxiway safety areas and runway safety/approach areas.

2. FAA/ADOT Documentation

CRE will prepare the electrical portion of the Engineer's report including project scope, design standards used, lighting and signage design and criteria, and estimated costs and quantities.

3. Specifications

CRE will prepare electrical Technical Specifications based on current FAA Advisory Circular requirements for all work specified.

4. Construction Phasing and Safety Plan

CRE, with assistance from Dibble, will prepare the Construction Phasing and Safety Plan (CSPP) including development of construction phasing exhibits. The CSPP will be prepared in accordance with the most recent edition of FAA AC 150/5370-2G.

Anticipated Submittals:

- 30% Design Submittal
 - Electrical Plans
 - Draft Engineer's Report
 - Electrical Technical Specs
 - Electrical Quantities and Construction Cost Estimate
 -
- 95% Design Submittal
 - Electrical Plans
 - Electrical Technical Specs
 - Engineer's Report
 - Electrical Quantities and Construction Cost Estimate
 - Final Construction Phasing and Safety Plan (CSPP)
- 100% Design Submittal
 - Electrical Plans
 - Engineer's Report
 - Electrical Technical Specs
 - Electrical Quantities and Construction Cost Estimate
- Bid Phase

Design Site Investigations:

CRE will provide 2 design site investigations as follows:

- One full day site investigation (2 person) for the airfield electrical systems.
- 30% Plan in hand walk through site investigation (2 person).
-

Meetings:

CRE will also attend the following meetings: design kick-off meeting and 2 review meetings via teleconference.

The following will be provided for **Bid Phase Services**:

- CRE will attend the pre-bid meeting.
- CRE will respond to Request For Information (RFI) during bidding and prepare addendums related to electrical scope.

This scope of work consists of comprehensive **construction phase services** as outlined below:

1. Pre-Construction Meeting: CRE will attend the pre-construction meeting.
2. Review Contractor's Monthly Pay Apps: CRE will review the electrical contractor's pay apps for quantity verification.
3. Site Visits and Inspections: CRE will perform full time construction inspection and observation on the electrical components of the project estimated at 60 days.
4. Shop Drawing Review and Coordination: CRE will review and provide a response to electrical project submittals as requested (estimated at 12 submittals).
5. RFI Review and Coordination: CRE will review and provide responses to electrical construction and technical project Requests for Information (RFI) estimated at 6.
6. ESI Preparation and Coordination: CRE will provide necessary Engineering Supplemental Information (ESI) documents estimated at 4.
7. Final Walk Inspection: CRE will attend the final completion electrical inspections/walk estimated at (1) final completion inspection/walk.
8. Punchlist(s) and Coordination(s): CRE will prepare, submit, and re-evaluate electrical punchlists at each substantial completion and final walk.
9. Record Drawings: CRE will develop the final Electrical Record Drawings based on Contractor redlines and field changes issued during construction, including RFI's/ESI's.

Fees

See attached Exhibit for proposed fee schedule and detailed task descriptions.

CR Engineers, Inc.
Fee Proposal Summary

Project Name: Bisbee Airport Airfield Electrical Improvements

Date: 06/08/26

CRE Proposal No.: 26021

FEES

Overhead Rate: 150 %

Profit Margin: 10 %

1.0 Design Fees \$69,441.21

2.0 CA&I Fees \$87,156.33

Total Fees **\$156,597.54**

ESTIMATED EXPENSES AND ALLOWANCES

Lodging

45 Trip	\$110.00 /Day (2026 Federal Per Diem)	\$4,950.00
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Travel

5760 Miles	\$0.670 /Mile	\$3,859.20
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3859.2*0.725/0.670=4176

Meals

45 Trip	\$68.00 /Day (2026 Federal Per Diem)	\$3,060.00
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TOTAL ESTIMATED EXPENSES **\$11,869.20**

GRAND TOTAL **\$168,466.74**

CR Engineers, Inc.

1.0 Design Fee Proposal Worksheet

Project Name: Bisbee Airport Airfield Electrical Improvements

Date: 06/08/26

CRE Proposal No.: 26021

	Task Description	Quantity	Project Manager / Engineer	Senior Designer	Senior CADD Designer	Senior Inspector	Project Assistant	Total Hours
1.1	Meetings & Site Visits							
1.1.1	Kick-off Meeting	1	1.0	1.0		1.0		3.0
1.1.2	Review Meeting(s)	2	2.0	2.0		2.0		6.0
1.1.3	Site Visit(s)	1		14.0		14.0		28.0
1.1.4	30% Plans in Hand Site Visit			10.0		10.0		20.0
1.2	Utility/Demand							
1.2.1	CCR Calculations		3.0	8.0				11.0
1.3	Contract Documents							
1.3.1	Electrical Drawing(s)		20.0	80.0	100.0	30.0		230.0
1.3.2	Specifications		6.0	15.0			8.0	29.0
1.3.3	Engineers Report		4.0	6.0			2.0	12.0
1.3.4	CSPP		8.0	18.0	8.0	6.0	12.0	52.0
1.3.4	Cost Estimate		8.0	12.0		28.0		48.0
1.3.5	30% Submittal		4.0	3.0	8.0		1.0	16.0
1.3.6	95% Submittal		8.0	6.0	10.0		1.0	25.0
1.3.7	100% Submittal		3.0	2.0	4.0		1.0	10.0
1.3.8	Client Coordination		8.0	10.0	8.0	3.0	2.0	31.0
2.0	Bidding Assistance							
2.1	Pre-bid Meeting/Walk Through					10.0		10.0
2.2	Answer Questions		2.0	6.0		4.0		12.0
2.3	Issue Addenda		3.0	4.0	6.0		2.0	15.0
1.0	Totals		80.0	197.0	144.0	108.0	29.0	558.0

Overhead Rate 150 %

Profit Margin 10 %

$$=(5*\$74.50+10*43.75+6*35.40+2*25.40)*69,441.21/25,251.35 = \$4,676.10$$

	Labor Rates Per Hour:	\$74.50	\$43.75	\$35.40	\$44.80	\$25.40	\$25,251.35
	Direct Labor:	\$5,960.00	\$8,618.75	\$5,097.60	\$4,838.40	\$736.60	
	Overhead:	\$8,940.00	\$12,928.13	\$7,646.40	\$7,257.60	\$1,104.90	
	Overhead + Direct Lab:	\$14,900.00	\$21,546.88	\$12,744.00	\$12,096.00	\$1,841.50	
	(OH + Direct) x Profit:	\$1,490.00	\$2,154.69	\$1,274.40	\$1,209.60	\$184.15	
1.0	Total Fees	\$16,390.00	\$23,701.56	\$14,018.40	\$13,305.60	\$2,025.65	\$69,441.21

CR Engineers, Inc.

2.0 Construction Administration Fee Proposal Worksheet

Project Name: Bisbee Airport Airfield Electrical Improvements

Date: 06/08/26

CRE Proposal No.: 26021

	Task		Project	Senior	Senior	Chief Electrical	Admin	Total
	Description	Quantity	Manager	Designer	CADD Designer	Inspector	Assistant	Hours
1.0	Construction							
1.1	Attend Pre-Construction Meeting					12.0		12.0
1.2	Submittal/Shop Dwg Review	12	12.0			40.0	8.0	60.0
1.3	RFI Responses	6	12.0	18.0		8.0	6.0	44.0
1.4	ESI Preparation	4	8.0	12.0	16.0	4.0	4.0	44.0
1.5	Site Inspections	60 days				382.5	8.0	390.5
1.6	Review of Contractor Pay Apps					12.0		12.0
1.7	Substantial Completion, Commissioning, Final Inspection(s)/Walk Through	1				12.0	1.0	13.0
1.8	Record Drawings		6.0		20.0	8.0	1.0	35.0
1.0	Totals		38.0	30.0	36.0	478.5	28.0	610.5

Overhead Rate 150 %
Profit Margin 10 %

	Labor Rates Per Hour:	\$77.48	\$48.04	\$40.39	\$52.50	\$26.16	
	Direct Labor:	\$2,944.24	\$1,441.20	\$1,454.04	\$25,121.25	\$732.48	
	Overhead:	\$4,416.36	\$2,161.80	\$2,181.06	\$37,681.88	\$1,098.72	
	Overhead + Direct Lab:	\$7,360.60	\$3,603.00	\$3,635.10	\$62,803.13	\$1,831.20	
	(OH + Direct) x Profit:	\$736.06	\$360.30	\$363.51	\$6,280.31	\$183.12	
1.0	Total Fees	\$8,096.66	\$3,963.30	\$3,998.61	\$69,083.44	\$2,014.32	\$87,156.33