

SUBJECT: Award of proposal number 23-002P(C) to DOWL, LLC for the contract amount of \$653,204 to design upgrades to Edgerton Parks Road and a new pedestrian pathway.

AGENDA OF: September 6, 2022

ASSEMBLY ACTION:

*Approved under the consent
Agenda 9-6-22 BOD*

MANAGER RECOMMENDATION: Present to the assembly for consideration.

APPROVED BY MICHAEL BROWN, BOROUGH MANAGER:

WB

Route To:	Department/Individual	Initials	Remarks
	Purchasing Officer	<i>[Signature]</i>	
	Public Works Director	<i>[Signature]</i> 8/24	
	Finance Director	<i>[Signature]</i>	
	Borough Attorney	<i>[Signature]</i> N.S.	
	Borough Clerk	<i>[Signature]</i> 8/30/22	<i>[Signature]</i>

ATTACHMENT(S): Fiscal Note: Yes X No
 Analysis Sheet (1p)
 Scope of Services (7p)

SUMMARY STATEMENT: On June 16, 2022, the Matanuska-Susitna Borough Purchasing Division issued a solicitation requesting Proposals from qualified firms to design upgrades to approximately 1 mile of Edgerton Parks Road from Palmer-Fishhook Road to Mountain Trails Drive. The design will meet collector standards and construct approximately 1.9 miles of separated pathway that will continue from Edgerton Parks along Mountain Trails Drive to the chalet parking lot at the Government Peak Recreation Area (GPRA).

Services purchased will support the Public Works Department in assembly district #6.

In response to the advertisement, seven proposals were received. A proposal evaluation team made up of Borough Public Works staff evaluated the proposals and selected DOWL, LLC as the most advantageous firm for the Borough.

The final completion date for this project is December 31, 2024.

In accordance with MSB 3.08.170(B), Administration requests authority to modify the resulting contract completion date by 30 days for unforeseen circumstances.

The Public Works Department, Project Management Division will be administering the contract.

RECOMMENDATION OF ADMINISTRATION: Approve the subject action memorandum.

MATANUSKA-SUSITNA BOROUGH
FISCAL NOTE

Agenda Date: September 6, 2022

SUBJECT: Award of proposal number 23-002P(C) to DOWL, LLC for the contract amount of \$653,204 to design upgrades to Edgerton Parks Road and a new pedestrian pathway.

ORIGINATOR: Purchasing

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT <u>(YES)</u> NO
AMOUNT REQUESTED <u>\$653,204</u>	FUNDING SOURCE <u>Roads + Bridges Capital Projects</u>
FROM ACCOUNT # <u>430.000.000 4xx.xxx</u>	PROJECT #
TO ACCOUNT :	PROJECT #
VERIFIED BY: <u>Justin Winkler</u>	CERTIFIED BY:
DATE: <u>8-24-22</u>	DATE:

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL						
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REVENUE						
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FUNDING: (Thousands of Dollars)

General Fund						
State/Federal Funds						
Other	<u>653.2</u>					
TOTAL	<u>653.2</u>					

POSITIONS:

Full-Time						
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

PREPARED BY: _____ PHONE: _____

DEPARTMENT: _____ DATE: _____

APPROVED BY: Cherianne Dunkel DATE: 8/24/22



Scoring Summary

23-002P 2022 Transportation Designs Phase 4 - Edgerton Parks Rd., Fern St., Smith Rd.
Ext.

	Total	Objectives and Services	Relevant Project Experience	Workload and Resources
Supplier	/ 100 pts	/ 45 pts	/ 35 pts	/ 20 pts
Kinney Engineering, LLC	90 pts	39 pts	35 pts	16 pts
PTS, Inc.	85 pts	42 pts	25.67 pts	17.33 pts
DOWL	84 pts	39 pts	30.33 pts	14.67 pts
HDL Engineering Consultants LLC	81 pts	36 pts	30.33 pts	14.67 pts
Lounsbury	71 pts	33 pts	23.33 pts	14.67 pts
Stantec Consulting Services Inc	69.67 pts	27 pts	28 pts	14.67 pts
The Boutet Company, Inc.	68 pts	30 pts	23.33 pts	14.67 pts

**RFP 23-002P – 2022 TRANSPORTATION DESIGNS PHASE 4
(A) - EDGERTON PARKS ROAD —MTN. TRAILS DRIVE UPGRADE & PATHWAY**

STATEMENT OF SERVICES

8/18/2022

1.0 General

- 1.1 The Contractor shall provide services as identified and authorized by a sequentially numbered Notice-to-Proceed (NTP) issued by the Matanuska-Susitna Borough (MSB). Contractor shall not perform services or incur billable expenses except as authorized by an NTP.
- 1.2 All reports, plans, specifications, estimates and similar work products provided by the Contractor shall be prepared by or under the supervision of an Engineer or Land Surveyor currently registered in Alaska.
- 1.3 All services must be performed by or under the direct supervision of the following individuals (replacement of, or addition to, the Project Staff named below shall be accomplished only by prior written approval of the MSB):

<u>Name</u>	<u>Project Responsibilities</u>
Aaron Christie, PE, PMP	Contract Management
Sean Holland, PE	Project Management
Sam Tyler, PE	Civil Engineering
Marshall Hetlet, PLS	Surveying (Lounsbury)
Keri Nutter, CPG	Geotechnical Investigation
Jeremiah Holland, PE	Geotechnical Engineering
Nick Robertson, SE, PE	Structural Engineering
Theresa Dutchuk	Environmental & Permitting
Heidi Robuck, PE	H&H Design & Fish Passage

- 1.4 All coordination and correspondence for the project shall be handled through or with the concurrence of the MSB Project Manager.
- 1.5 Contractor is required to maintain a schedule detailing project tasks and milestones. This schedule will show the interdependence and duration of the various design activities/contract tasks. The schedule will be the basis for performance measurements throughout the Project development and used to track Contractor progress and billings.

2.0 Project Location and Description

- 2.1 This project will upgrade Edgerton Parks (E-P) Road from Palmer-Fishhook Road to Mountain Trails Drive with a pathway extending from Fishhook Road to Government Peak Recreation Area (GPRA) parking lot.
- 2.2 Previously developed concepts proposed improving the existing E-P surface with new asphalt pavement and aggregate base course, and widening the structural section to include appropriate shoulder widths for the design speed and traffic volume. A separated multi-use pathway will be provided on the north side of E-P and west side of Mountain Trails Drive; a pedestrian bridge spanning the Little Susitna River may be considered.
- 2.3 The Contractor shall provide complete bid-ready plans, specifications and an Engineer's estimate.
- 2.4 When authorized by a NTP, Contractor shall provide the following services: Surveying for Design; Design Memo; Plans, Specifications & Engineer's Estimate (PS&E); and assistance with Public Involvement.
- 2.5 MSB reserves the right to add other required services by amendment if necessary.

AM 22-115

3.0 Summary of Contract Services

- 3.1 Preliminary Design Memo (Task 1, Group A, Fixed Price)
 - 3.1.1 Site Visit
 - 3.1.2 This memo will provide a basis for decision on final scope by comparing the previous alternatives prepared by others. (6/2018)
 - 3.1.3 Document design criteria for all elements.
 - 3.1.4 List standards used.
 - 3.1.5 Update estimates prepared by previous exercise.
 - 3.1.6 Research and review of Right of Way (ROW) information.
 - 3.1.7 Research and Review of Utilities.
 - 3.1.8 Recommended Alternative.
 - 3.1.9 Deliverables:
 - 3.1.9.1 Site Visit Memo
 - 3.1.9.2 Draft Design Memo
 - 3.1.9.3 Final Design Memo
 - 3.1.10 Exclusions: Bridge alternatives are covered in task 9.
- 3.2 Design Level Survey (Task 2, Group A, Fixed Price)
 - 3.2.1 The survey area will include 50' from edge of pavement for the length of the proposed path on Mountain Trails Dr. from Sta. 110+35 to 157+80 and the entire right of way (100' wide) of Edgerton Parks Highway from Sta 9+45 – Sta 59+91.
 - 3.2.2 Locate and establish control.
 - 3.2.3 Survey topography and features that will be considered during design including but not limited to:
 - 3.2.3.1 Utilities
 - 3.2.3.2 Edge of pavement.
 - 3.2.3.3 Driveways and approaches.
 - 3.2.3.4 Culverts and other drainage features.
 - 3.2.3.5 Existing signs.
 - 3.2.4 Deliverables:
 - 3.2.4.1 Survey Control Sheet.
 - 3.2.4.2 Project drawing base map (CAD).
 - 3.2.5 Exclusions:
 - 3.2.5.1 The bridge site survey is not included in this task.
 - 3.2.5.2 Right of Way Survey nor Mapping is included in this task.
- 3.3 Geotechnical Investigation and Engineering (Task 3, Group A, Fixed Price)
 - 3.3.1 A geotechnical investigation is recommended to evaluate the existing pavement section on E-P Road. If E-P Road is widened, the new section should match the existing section to prevent differential movements between the existing and new sections. Test borings would determine existing asphalt, base course, subbase, and subgrade thicknesses and classifications. Beneath new sections (E-P Road widening and pathway), the overburden (organic and soft soils) will need to be removed and the quantity should be estimated from field measurements; we believe using existing data, data obtained through the proposed E-P Road investigation, and hand-driven peat probes will be sufficient to estimate overburden quantity. A retaining wall may be necessary near Little Otter Drive that would require subsurface investigation for design. The pedestrian bridge abutments are discussed under Task 9.

- 3.3.2 We propose the following geotechnical exploration plan:
 - 3.3.2.1 15 test borings (every ~400 feet and at areas of poor pavement performance) to depths of 4 to 15 feet within and on the shoulder of E-P Road for evaluation of existing pavement section.
 - 3.3.2.2 3 test borings at the proposed retaining wall to approximately twice the retaining wall height or a minimum of 30 feet.
 - 3.3.2.3 Lab testing is expected to consist of gradations, frost classification, and Atterberg Limits
 - 3.3.2.4 Hand-driven peat probes conducted in E-P Road widening areas to estimate overburden quantities
 - 3.3.2.5 Hand-driven peat probes conducted to supplement existing test pit data and as-builts of Mountain Trails Drive, and data obtained from E-P Road investigation for design of the pathway.
 - 3.3.2.6 Cut and patch asphalt as required.
 - 3.3.2.7 Rudimentary tree/brush clearing will be required.
- 3.3.3 Deliverables:
 - 3.3.3.1 Geotechnical Report with findings of subsurface investigation, geotechnical analysis, and recommendations.
- 3.3.4 Assumptions:
 - 3.3.4.1 Test borings are accessible with a truck drill rig or rubber-tracked drill rig if mobilization is combined with the pedestrian bridge investigation.
 - 3.3.4.2 Traffic control will be required where drilling in the road/on the shoulder required and will be subcontracted by the drilling subcontractor.
 - 3.3.4.3 No environmental sampling or testing will be performed.
 - 3.3.4.4 Fieldwork will be performed prior to significant snow fall and/or frozen ground conditions.
- 3.3.5 Exclusions:
 - 3.3.5.1 Winter conditions.
 - 3.3.5.2 MSB Permit fees.
 - 3.3.5.3 The bridge foundation scope is not included in this task.
- 3.4 Plans Specifications and Estimate (PS&E) (Task 4, Group A, Fixed Price)
 - 3.4.1 This task will prepare a complete and biddable contract document including Plans, Specifications and Estimate.
 - 3.4.2 Design highway and pathway per MSB Subdivision Construction Manual 2020 and AASHTO Policy on Geometric Design of Highway and Streets.
 - 3.4.3 Prepare preliminary and final layout and global stability calculations for retaining walls located between stations 49+73-50+84. Wall types are assumed to be modular block or mechanically stabilized earth (MSE) type walls which are typically proprietary to the manufacturer. A performance specification will be developed, and final engineering of the wall system will be deferred to the contractor.
 - 3.4.4 Plans in Hand will consist of approximately 75% complete design (estimated 38 sheets). A specifications memo, title sheet, legend and abbreviation sheet, typical sections, quantities table, details, pathway plan and profile sheets,

signing and striping, detail sheets, illumination design, general notes, and an engineer's estimate.

3.4.5 Final PS&E Review- Will consist of completed plans (estimated 56 sheets) and the following for submittal.

3.4.5.1 Complete, signed, and sealed Plans (no cross sections included)

3.4.5.2 Complete Specifications including Appendices

3.4.5.3 Signed Engineer's Estimate

3.4.5.4 Special Notice to Bidders

3.4.5.5 Draft Bid Form

3.4.5.6 Highway Design Checklist

3.4.5.7 Brief Report of significant changes made

3.4.5.8 Final responses to all comments

3.4.5.9 Letter describing any unusual design features, and the reasons for them.

3.4.5.10 Quantity calculations

3.4.6 Deliverables:

3.4.6.1 Hydrology memo including methodology of design.

3.4.6.2 Scoping Figures Submittal

3.4.6.3 Scoping Figures Comment Responses. Following stakeholder review the team will provide responses.

3.4.6.4 Plans-In-Hand Review Submittal - 75% Design

3.4.6.5 Plans-In-Hand Initial Comment Responses. Following stakeholder review the team will provide responses.

3.4.6.6 Final PS&E Submittal - 100% design

3.4.7 Exclusions:

3.4.7.1 Traffic studies nor analysis are included.

3.4.7.2 DOT&PF requested revisions that exceed the above scope or prioritize DOT&PF procedures and policies over those listed above.

3.4.7.3 Assumed that the 3 fish passage culverts will be extensions of the current design and not complete replacements with new design.

3.5 Environmental Permitting (Task 5, Group B, T&E)

3.5.1 Wetland Delineation in accordance with the US Army Corps of Engineers (USACE) 1987 Wetlands Delineation Manual and a functional assessment in accordance with the Alaska Wetland Assessment Method.

3.5.2 Permit Applications completed for MSB submittal including:

3.5.2.1 Clean Water Act (CWA) Section 404 permit from the USACE.

3.5.2.2 DOWL will coordinate with Alaska Department of Fish and Game to acquire Title 16 Fish Habitat Permits, as necessary. DOWL will take a multi-disciplinary approach to the Title 16 permitting to ensure all crossings comply with ADF&G standards and recommendations. We anticipate three Title 16 permits will be required for the local streams and improvements over the Little Susitna River would require a fourth Title 16 permit.

3.5.3 The project crosses the regulatory floodway of the Little Susitna River. DOWL does not anticipate encroaching on the regulatory floodway or associated floodplains; however, DOWL will consult with

- the MSB Floodplain Administrator to receive confirmation that no permit is necessary.
- 3.5.4 Conduct one (1) site visit to document the location of eagle nest in the project vicinity. Document the results of this task in an Eagle Nest Survey Memo that includes a map showing the approximate location of each nest. Additional USFWS consultation may be negotiated as an additional service if necessary.
 - 3.5.5 Deliverables:
 - 3.5.5.1 Wetland Delineation and Functional Assessment Report.
 - 3.5.5.2 Permit Applications.
 - 3.5.5.3 Eagle Nest Survey Memo.
 - 3.5.6 Exclusions:
 - 3.5.6.1 Alaska Department of Natural Resources Temporary Water Use permits for diversions. (Construction methods will dictate if necessary.)
 - 3.5.6.2 ADF&G Aquatic Resource permits for human assisted fish passage during construction. (Construction methods will dictate if necessary.)
 - 3.5.6.3 Floodplain Permit Application (not anticipated).
 - 3.5.6.4 Compensatory Mitigation Negotiations (not anticipated).
 - 3.5.6.5 Land use or special use permit for work within the GPRA.
 - 3.5.6.6 Fish passage designs assume extension of culverts using existing design. Survey of streambed and check of existing design is included in other scope items.
 - 3.6 Cultural Resource Survey (Included in task 5)
 - 3.6.1 Research documents and files of the Alaska Heritage Resource Survey database.
 - 3.6.2 Perform a cultural resource survey of the project area.
 - 3.6.3 Document the results of this task in a Historic and Cultural Resources Memo.
 - 3.6.4 Deliverable:
 - 3.6.4.1 Historic and Cultural Resources Memo.
 - 3.6.5 Exclusions:
 - 3.6.5.1 Coordination or consultations with the State Historic Preservation Office.
 - 3.6.6 Assumptions:
 - 3.6.6.1 Project area is entirely on MSB land.
 - 3.7 Public Involvement Support (Task 6, Group B, T&E)
 - 3.7.1 Deliverables:
 - 3.7.1.1 FAQ sheet and posters for Mat-Su Transportation Fair
 - 3.8 Assist with Bidding Activities (Task 7, Group B, T&E)
 - 3.8.1 Answering questions from bidders.
 - 3.8.2 Preparing addendums as necessary.
 - 3.8.3 This item will be measured and paid on a T&E basis.
 - 3.9 Assistance During Project Construction: (Task 8, Group B, T&E)
 - 3.9.1 Review submittals.
 - 3.9.2 Respond to questions and requests for information.

- 3.9.3 Provide design modifications as needed. Does not include scope changes or alternative designs proposed during construction.
- 3.9.4 This item will be measured and paid on a T&E basis.
- 3.10 Bridge Design (Task 9, Group D, Fixed Price)
 - 3.10.1 Research and present pedestrian 2 bridge alternatives over the Little Susitna River including expanding existing bridge and constructing a standalone bridge. Conceptual drawings and estimates will be prepared for each.
 - 3.10.2 Bridge Design Task is based on an assumed 200' Prefabricated Single Span Truss Bridge.
 - 3.10.3 Bridge Site Survey including project drawing.
 - 3.10.4 Geotechnical Investigation including 2 borings up to 50 feet deep.
 - 3.10.4.1 Bedrock will be cored if encountered within depth of 50'
 - 3.10.4.2 Should bedrock be encountered before 50' in depth, HQ3 tooling shall be advanced to the total depth of the borehole, but not exceed 50'.
 - 3.10.4.3 Site is accessible with a rubber-tracked drill rig.
 - 3.10.4.4 Cut and patch asphalt as required.
 - 3.10.4.5 Rudimentary tree/brush clearing will be required.
 - 3.10.4.6 Lab testing is expected to gradations, Atterberg Limits, Consolidation tests, and Unconfined Compressive Strength (rock).
 - 3.10.4.7 Permits will be required to drill along the riverbank of the Little Susitna River.
 - 3.10.5 Foundation Recommendations in memo form.
 - 3.10.6 Hydrologic and Hydraulic Analysis including memo.
 - 3.10.7 Bridge and foundation design in accordance with the Alaska Bridges and Structures Manual and applicable codes.
 - 3.10.8 Plans, Specifications and Estimate to be included in the milestone reviews identified in task 7.
 - 3.10.9 ADF&G Title 16 Essential Fish Habitat Permit.
 - 3.10.10 Planset:
 - 3.10.10.1 Plan and Elevation
 - 3.10.10.2 General Notes
 - 3.10.10.3 Construction Sequence
 - 3.10.10.4 Foundation Data Sheet
 - 3.10.10.5 Foundation Plan
 - 3.10.10.6 Deck Plan
 - 3.10.10.7 Typical Section
 - 3.10.10.8 Bent 1 P&E
 - 3.10.10.9 Bent 1 Details
 - 3.10.10.10 Bent 2 Plan and Elevation
 - 3.10.10.11 Bent 2 Details
 - 3.10.10.12 Wingwall Details 1
 - 3.10.10.13 Misc. Details 1
 - 3.10.10.14 Misc. Details 2
 - 3.10.10.15 Rail Details
- 3.11 Right Of Way (Not in Contract)
 - 3.11.1 There is insufficient information to scope this task, no work is anticipated. If necessary DOWL can assist with:
 - 3.11.1.1 Right of Way Mapping.

AM 22-115

3.11.1.2 Parcel Plat Development.

3.11.1.3 Acquisition Services.

3.12 Utility Agreements (Not in Contract))

3.12.1 There is insufficient information to scope this task, no work is anticipated. DOWL can assist with:

3.12.1.1 Utility Conflict Report including cost estimates.

3.12.1.2 Preparation of Utility Agreements for MSB execution.