



CITY OF WASILLA

290 E. HERNING AVE.
WASILLA, ALASKA 99654-7091
PHONE: (907) 373-9050
FAX: (907) 373-9085

COUNCIL MEMORANDUM NO. 93-111

From: Deputy Administrator

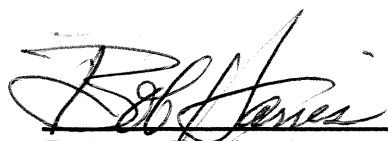
Date: November 16, 1993

Subject: Engineering Services for Lakeview Avenue Paving Project

We received proposals from four (4) local firms to provide engineering cost estimates, design and contract administration for the proposed Lakeview Paving Assessment District. Only the cost estimate (Phase I) will be completed until after a favorable vote is received for the assessment district.

All of the proposing firms have satisfactorily completed work for the City. In this instance, the proposal by Erdman & Associates estimates engineering costs about \$2,000 less than Alaska Rim estimates. However, we anticipate problems with desired front slope ratios and we have uncertainty as to the location of the existing street within the right-of-way (r.o.w.). Some surveying will be required to determine a reliable cost estimate. Additionally some r.o.w. and/or grade staking will be required for the contractor. None of these costs are anticipated in the Erdman proposal but are included in the Alaska Rim proposal.

Recommend that Council authorize the Mayor to finalize negotiations and enter into a contract with Alaska Rim Engineering for the Lakeview Paving Assessment District, contract price not to exceed \$18,870.



Robert E. Harris
Deputy Administrator

APPROVED

DATE: 11/22/93
BY: R. Harris

SECTION A. METHODOLOGY

1. PROJECT START-UP

The Project Start-up Meeting between Gilfilian Engineering, Inc. and the staff of the City of Wasilla will be held prior to the initiation of any design work. The purpose of the meeting is to discuss the project scope, design criteria, budget, scheduling, and the preliminary scenarios. The meeting will provide an opportunity to exchange ideas with City personnel.

2. GEOTECHNICAL INVESTIGATION

Gilfilian Engineering, Inc., with the assistance of the City of Wasilla Public Works Department, will complete a series of test holes along the roadway alignment to verify the existing roadway embankment structure. These shallow test holes, to an approximate depth of 3 feet, will be located in random spacing in critical locations. It is our estimate that the time to complete this backhoe work provided by the Public Works Department would be 4 hours.

3. COST ESTIMATE AND PUBLIC HEARING

Within fourteen (14) working days after the Project Start-up Meeting, Gilfilian Engineering, Inc. will provide the City with a reasonably accurate cost estimate for the construction of the upgrade of Lakeview Avenue. The cost estimate will be used during a public hearing for approval of the Local Improvement District (LID). A final engineer cost estimate for the LID will be given to the City prior to the advertisement of the construction of the project.

4. DESIGN SURVEY

Once the project cost estimate has been accepted by the LID participants, a complete design survey will be completed by Jack Hughes, P.L.S. This survey will include a centerline profile, cross-sections randomly taken along the entire route, and topographic survey to identify any conflicts or improvements along the right-of-way.

5. FINAL DESIGN AND PREPARATION OF BID DOCUMENTS (PS & E)

Gilfilian Engineering, Inc. will complete the final design and bid package within ten (10) working days following the public hearings on the LID project. The final design and bid preparation will have a final cost estimate to be used for selection of contractors to construct the project and to identify any cost increases which were not initially foreseen in the preliminary cost estimate. Gilfilian Engineering, Inc. will provide one (1) set of engineering plans on reproducible mylars and the bid specification and contract documents to the City of Wasilla. The bid documents will follow the City of

Wasilla Standard Specifications for Streets, Drainage and Utilities, dated 1986. Any special provisions or changes to those standard specifications will be included as part of the bid package.

6. ROAD ALIGNMENT STAKING

Jack Hughes, P.L.S., shall slope stake the limits of the construction before the bid opening. This staking shall be used by the bidding contractors to review the proposed upgrades. Any staking lost or damaged after the bidding process, or additional staking needed during the construction, shall be the contractor's responsibility.

7. BID OPENING

Gilfilian Engineering, Inc. will provide services during the bidding process, and will answer all contractors' questions regarding this project in a written addendum form. We believe the advertisement of this project will be over a two to three week period and that only one addendum will be required for this project.

8. PRECONSTRUCTION CONFERENCE

After selection of a contractor is completed by the city administration, a preconstruction conference will be held at City Hall with the selected contractor, Gilfilian Engineering, Inc. and City staff to review all aspects of the project in regard to construction.

9. CONTRACT ADMINISTRATION AND INSPECTION

It is estimated that the construction phase of this project will take approximately four weeks. During the construction phase, Gilfilian Engineering, Inc. will conduct several spot-inspections to observe the work done by the contractor. Gilfilian Engineering, Inc. will also check horizontal and vertical locations of the construction work. Gilfilian Engineering, Inc. will review and approve all pay requests and make recommendations to the City on any Change Orders or Work Orders.

SECTION B. PROJECT TEAM ORGANIZATION

The Project Team is organized to fully respond to and address all of the elements in the scope of work needed to design the proposed road. The major strength of our Project Team is the collective experience of the senior staff team members and their commitment to the project. The team members identified below have extensive experience in their respective roles on this project.

Complete resumes for the following key members of our Project Team, outlining their overall professional qualifications and experience, will be provided, if requested.

Project Manager
Registered Engineer
Registered Land Surveyor

C. Peter Curtis
Robert E. Gilfilian, P.E.
Jack Hughes, P.L.S.

C. Peter Curtis will be the Project Manager and will be responsible for supervision of the project to ensure that it is successfully completed on schedule and within budget. His experience managing and coordinating large multi-disciplinary capital improvement projects qualifies him for this role.

The effective role of the Project Manager and a responsive, efficient Project Management Plan is essential to the success of this project. Mr. Curtis has demonstrated his ability to coordinate many successful efforts. Key elements of this project's coordinate effort will be establishment of goals, adherence to strict schedules and effective communication. Project coordination meetings will be held with all appropriate parties throughout the duration of this project to ensure the goals are on target.

Mr. Curtis will also act as the primary Civil Designer and the Contract Administrator during the construction phase of this project.

Mr. Curtis has been employed with Gilfilian Engineering, Inc. since 1984 and has nearly fourteen years of engineering experience, the last twelve of which have been in Alaska. His experience includes the design and construction administration of roads, community water systems, community sewer systems, recreational park facilities and residential developments. Mr. Curtis served in the capacity of the Assistant City Engineer on City of Wasilla engineering and municipal projects.

Robert E. Gilfilian, P.E. will be the project's Registered Engineer and will be responsible for the technical review of the plans and specifications. As a registered professional civil engineer with over eighteen years of engineering experience in Alaska, Mr. Gilfilian has been responsible for a wide variety of projects. The past sixteen years have been spent primarily in the Matanuska-Susitna Borough. He has managed numerous civil engineering studies, designs, and construction projects since forming Gilfilian Engineering, Inc. in 1981. He has actively participated in public meetings and hearings on various issues, acted in the capacity of the public hearing officer and served on local government commissions.

Mr. Gilfilian is familiar with the project area. He was involved in the design of Wasilla City Streets, Phase I, which was the design of approximately 2.5 miles of urban streets, illumination and drainage systems. In addition, his firm has performed numerous designs and performed QA/QC services for both the private and public sectors throughout the local Wasilla vicinity.

Jacks S. Hughes, P.L.S. will serve as the project's Professional Land Surveyor and will be responsible for the field data collection, right-of-way identification, and route selection. As a Registered Professional Land Surveyor with over twenty years of cadastral and construction survey experience, Mr. Hughes has been responsible for a wide variety of control survey projects. He has spent the past fourteen years primarily in survey management with an emphasis in data collection, remote sensing, and computer operation systems.

Mr. Hughes served as a Cadastral Survey Advisor for Geonex International in Cairo, Egypt, from 1990 through 1992. A USAID funded project to modernize the Egyptian Survey Authority, Mr. Hughes' duties were to train Egyptian government surveyors in the proper procedures and techniques of modern cadastral surveying and data processing; to train and supervise Egyptian government survey crews in the operation of electronic data gathering equipment using total stations with data collectors and global positioning systems (GPS); to train data processing personnel in the use of MS-DOS computers in a variety of software applications for processing and adjusting survey data, and in cadastral map making using AutoCAD; to train upper level government employees in managerial and supervisory skills in survey project planning and management; to write standard specifications and procedures for cadastral surveys in Egypt using modern surveying equipment and procedures.

SECTION C. PROJECT BUDGET

We propose to provide the engineering and surveying services required to complete this project, as outlined herein, on a fixed fee basis budgeted amount without prior client authorization.

The actual project cost will depend on a detailed scope of work as defined during contract negotiations. A project Personnel Fee Schedule for services required beyond the scope of this proposal is included with this proposal.

For the purpose of this proposal, our project budget is based on the following project conditions:

1. It is our understanding, based on discussions with the city administration, that the existing subsoil conditions are unknown. Therefore, Gilfilian Engineering, Inc. proposes to conduct a soils investigation using the City of Wasilla Public Work's backhoe to excavate several test pits along the roadway to verify subsurface conditions.

The subbase verifications will be used to prepare the preliminary cost estimate to give the LID participants as reasonably accurate a cost estimate as can be accomplished without completing the design.

2. The scope of survey work for this project will be limited to the horizontal control for the location of the existing roadbed within the right-of-way. It is not anticipated that a detailed construction staking of the road is necessary. No grade stakes, horizontal or vertical curve stakings are proposed for this work. Survey work in the design phase will locate the physical road relative to the right-of-way to ensure there are no encroachments onto private property. The roadbed and right-of-way will be plotted on a map to show any encroachments or near encroachments. If horizontal or roadway width problems are identified during this phase of work, budget modifications will need to be made in order for the design to continue. Extra work required to complete the design will be negotiated with the City's project administrator.
3. The plans, specifications and contract documents will be prepared as one complete package to include a modified typical cross section, an overview of the project site and special provisions required to modify the standard specifications.

We understand the City may elect to award this contract on a fixed-fee basis. In this regard, Gilfilian Engineering, Inc. is agreeable to negotiate and enter a fixed-fee contract with the City of Wasilla.

PROPOSED ENGINEERING BUDGET

PHASE I - PRELIMINARY COST ESTIMATE \$2,338.00

Includes project startup, geotechnical investigation,
preliminary cost estimate.

PHASE II - PLANS, SPECIFICATIONS & ESTIMATE (PS&E) \$15,618.00

Includes design survey, design of bid package, cost for
utility locates and alignment staking.

PHASE III - CONTRACT ADMINISTRATION \$8,700.00

Includes the bid phase, preconstruction conference,
and contract administration.

TOTAL PROPOSED ENGINEERING BUDGET \$26,656.00

Personnel budget outlines specific tasks performed by key personnel.

PERSONNEL BUDGET.

TASK	PERSONNEL						COST
	Principal \$110	Project Manager \$68	Geo. Specialist \$70	AutoCAD Operator \$52	Survey Crew \$92	Word Processor \$38	
Project Start-up	1	2					\$246
Geotechnical Investigation		3	8				\$764
Cost Estimate	3	13				3	\$1,328
Design Survey					65		\$5,980
PS & E	4	35		35		16	\$5,248
Slope Staking					45		\$4,140
Bid Phase	3	4				3	\$716
Preconstruction Conference		2					\$136
Contract Administration	4	100				16	\$7,848
Utility Locates							\$250
TOTAL COST							\$26,656

ERDMAN & ASSOCIATES

Consulting Engineers

151 East Herning Avenue
Wasilla, Alaska 99654
Ph 907-376-6989
Fax 907-373-2157

November 15, 1993

City of Wasilla
290 East Herning Avenue
Wasilla, AK 99654

RECEIVED

NOV 15 1993

City of Wasilla Alaska

Attention: Mr. Robert E. Harris
Deputy Administrator

Subject: Engineering Services Proposal
Lakeview Avenue Paving Project

Dear Mr. Harris:

We appreciate the opportunity to submit this proposal to provide engineering services for the referenced project. As we understand the project, it involves the upgrading and paving of Lakeview Avenue, which has a total length of approximately 5,000 feet.

Recently, our firm successfully completed the engineering, inspection and contract administration of the Mountain Village Plaza Paving Project. Work was completed prior to freeze-up as desired, and the final project cost was under budget. In addition, we have completed construction cost estimates for a number of other proposed paving projects.

Our estimated fees for the Lakeview Avenue Paving Project, broken down into the three phases outlined in your request for proposals, are as follows:

1. Prepare Preliminary Cost Estimate

Sr. Engineer	2.0 Hrs @ \$75/Hr	150.00
Engineer	4.0 Hrs @ \$60/Hr	240.00
Clerical	1.0 Hrs @ \$35/Hr	35.00

1. Subtotal \$ 425.00

2. Engineering -- Design Prepare Bid Documents

A. Survey/Preliminary Design

Sr. Engineer	4.0 Hrs @ \$75/Hr	300.00
Engineer	12.0 Hrs @ \$60/Hr	720.00
2-Man Crew	32.0 Hrs @ \$85/Hr	2,720.00
Land Surveyor	4.0 Hrs @ \$60/Hr	240.00
Draftsman	12.0 Hrs @ \$40/Hr	480.00

Subtotal \$ 4,460.00

B. Construction Documents

Sr. Engineer	8.0 Hrs @ \$75/Hr	600.00
Engineer	40.0 Hrs @ \$60/Hr	2,400.00
Draftsman	48.0 Hrs @ \$40/Hr	1,920.00
Clerical	8.0 Hrs @ \$35/Hr	280.00

Subtotal \$ 5,200.00

2. Subtotal \$ 9,660.00

3. Inspection & Contract Administration

A. Bidding Phase

Sr. Engineer	8.0 Hrs @ \$75/Hr	600.00
Engineer	4.0 Hrs @ \$60/Hr	240.00
Clerical	2.0 Hrs @ \$35/Hr	70.00

Subtotal \$ 910.00

B. Construction Phase

Sr. Engineer	16.0 Hrs @ \$75/Hr	1,200.00
Engineer	50.0 Hrs @ \$60/Hr	3,000.00
Clerical	6.0 Hrs @ \$35/Hr	210.00
Lab/Field Testing		1,500.00

Subtotal \$ 5,910.00

3. Subtotal \$ 6,820.00

ESTIMATED TOTAL \$ 16,905.00

Please call if you have any questions or need additional information.

Yours Truly,


Michael R. Erdman, P.E.

*No Construction Survey
R.O. or prints, or
horizontal control included.
Some needed.
(2-300.00)*

MICHAEL R. ERDMAN, P.E.
Civil Engineer

EDUCATION

B.S. Civil Engineering
Rutgers University; 1979

PROFESSIONAL REGISTRATION

Registered Civil Engineer; Alaska (CE 6252)
Accredited Corrosion Specialist in Training (NACE #3292)
ICBO Certified Combination Dwelling Inspector (#57561)

PROFESSIONAL EXPERIENCE

Mr. Erdman has over fourteen years of professional civil engineering experience in Alaska. His experience has included design and contract administration for rural and urban roads, community water supply and wastewater disposal systems, and large commercial, institutional and educational facilities.

The following key projects illustrate Mr. Erdman's experience as it relates to the engineering services which will be required for this project.

*** MOUNTAIN VILLAGE PLAZA PAVING**
City of Wasilla

Prepared preliminary construction cost estimate, performed design, preparation of bid documents, inspection and contract administration for 3,100 foot paving project.

*** HOUSTON SCHOOL ACCESS ROAD**
Matanuska-Susitna Borough

Served as project engineer and project manager for 0.8 mile access road which included a state highway intersection and a wetlands crossing.

*** WASILLA STREET IMPROVEMENTS**
City of Wasilla

Supervised and coordinated project team for design of 13,000 feet of urban streets with curb & gutter, sidewalks, street lighting and storm drainage.

*** SEYMOUR LAKE WEST SUBDIVISION**
Matanuska-Susitna Borough

Currently providing complete engineering services for 30 acre subdivision project, including soils investigation, ADEC approval as well as design, inspection and contract administration for upgrade of 2,600 lineal feet of roadway.

*** CARPENTER LAKE SUBDIVISION**
Matanuska-Susitna Borough

Provided complete engineering services for the subdivision project, including soils investigation, ADEC approval, road design and construction contract administration. Project was completed in cooperation with Cottini Land Surveying.

*** SPRUCE AVENUE UPGRADE & INTERCONNECTION**
City of Wasilla

Served as Project Administrator for construction inspection of 2 mile LSR&T project which included reconstruction and new construction.

*** KINCAID PARK SKI TRAIL SYSTEM**
Municipality of Anchorage

Performed Project Management and Construction Contract Administration for construction and reconstruction of 15 miles of world class cross country ski trails.

*** LABOUCHERE BAY ROAD**
U.S. Forest Service

Performed route location, design and contract administration for realignment and reconstruction of six miles of Forest Arterial road.

*** RED BAY TIE ROAD**
U.S. Forest Service

Performed inspection and contract administration for two mile Forest Arterial road on the Tongass National Forest.



Phone (907) 745-0222
Fax (907) 746-0222

RECEIVED

P.O. Box 2749
Palmer, Alaska 99645

NOV 12 1993

November 12, 1993

City of Wasilla, Alaska

Bob Harris
Deputy Administrator
City of Wasilla
290 E. Herning Avenue
Wasilla, Alaska 99654

Re: Request for Proposals
Engineering - Lakeview Avenue Paving LID Project

Dear Bob:

It is with great pleasure that Alaska Rim Engineering submits the following proposal for professional services. I feel that we have compiled a unique team that will serve the City in a cost effective manner as we have demonstrated in the past.

Submitted under this cover are our statements of qualifications, methodology, task/cost proposal, and a copy of our current fee schedule. I trust that these documents will allow you to evaluate our firm.

Reviewing the request for proposal, we find that you are requesting costs by a major phasing scheme. Our proposal relates to the request as follows:

Phase I			
	Task 1	\$ 225	
	Task 2	\$ 2,110	
Total			\$ 2,335.00
Phase II			
	Task 3	\$ 6,985	
	Task 4	\$ 370	
	Task 5	\$ 185	
Total			\$ 7,540.00
Phase III			
	Task 6	\$ 6,100	
	Task 7	\$ 670	
Total			\$ 6,770.00
	Third Party Cost (Testing)		\$ 2,225.00
	Total Project Cost		\$ 18,870.00
	Not to Exceed		\$ 20,000.00

Alaska Rim Engineering will complete the project using all local residents. All of the work, except soils testing, will be done in-house and the City is welcome to conduct over the shoulder reviews at any stage of the project.

I am looking forward to continuing our relationship with the City and look forward to working with you on this project.

Respectively submitted,

A handwritten signature in cursive script, appearing to read "H. Paul Campbell".

H. Paul Campbell, P.L.S
Managing Partner

HPC/lmj

STATEMENT OF QUALIFICATIONS

Alaska Rim Engineering is uniquely qualified to prepare the plans, specifications and provide contract administration and inspection for the City of Wasilla Lakeview Avenue Paving LID Project. The principal staff members have been working on similar projects, in the valley, for more than fifteen years. The principal staff members are licensed professionals in the State of Alaska, who are familiar with the local working environment.

The project manager will be H. Paul Campbell, P.L.S. He will be responsible for the over-all project management, project surveying, and governmental co-ordination. Paul has been a resident of the valley for forty years and has watched the City of Wasilla evolve. Paul is also a member of both the Matanuska-Susitna Borough Planning Commission and Platting Board. His insight on local planning efforts and goals will be very valuable during the public hearing portions of the LID approval.

The project engineer will be Michael Skibo, P.E., who will be responsible for the day-to-day work effort at Alaska Rim. He will draft the specifications, prepare the preliminary cost estimate, represent the City at all LID hearings as the Project's Engineer, as well as supervise drafting and field inspection work. He will also manage the administrative end of the Contractor's pay estimates and assure the Contractor's compliance with all administrative portions of the Construction Contract with the City under the direct supervision of H. Paul Campbell, project manager.

All work will take place at the offices of Alaska Rim Engineering, located at Mile 3.2 Palmer-Wasilla Highway. The only task that will not be accomplished in-house is the soils testing at the beginning of the job, gradation and density testing during construction and asphalt core testing at the end of the job. This work will be accomplished by Mark Hansen, P.E., another local engineering firm.

METHODOLOGY

The following methodology is being presented in a Task by Task basis. It is meant to be reviewed in a chronological sequence. The Task and Fee Schedule is based on the same tasks as presented in this section.

The goal of this presentation is to show how Alaska Rim Engineering will complete the project in a cost effective manner, while providing the City with full engineering services. The ultimate goal is a serviceable roadway at a reasonable cost that can be afforded by the people in the improvement district.

Task 1 Initial Meeting

Upon selection, the Project Engineer will schedule and meet with the Deputy Administrator. The Administrator may wish to have other City personnel at this meeting. The agenda will include design parameters for the various streets, bypass traffic patterns, emergency vehicle access, and ingress and egress for local residents during construction. It is extremely important that these issues be cleared up prior to the writing of the specifications. Residents will be inconvenienced during the construction. If this inconvenience can be kept to a minimum, it will greatly expedite the public hearings setting the assessment. It will be especially important to control traffic at the intersection of Knik-Goose Bay Road. Emergency vehicles will have to know the daily status of these roads so that they can continue service.

Another agenda item would be the inclusion of alternative bid items. This would allow the City to bid the project as they see fit in one single stroke. If costs are too high or items are not felt to be cost effective, the items do not have to be awarded. This will allow the Deputy Administrator and the Project Engineer to "tailor" the project to the funds available.

Task 2 Cost Estimate and Public Hearing

Once the design and operation parameters have been established, the project area will be surveyed to determine the location of the roads in relationship to the existing right-of-way. Also, a soils test will be performed at potential problem areas. Then the Project Engineer will prepare the preliminary construction cost estimate. This will be reviewed with the Deputy Administrator and presented to the Council.

The Project Engineer will then prepare for and hold a public information meeting with the Deputy Administrator. This will be specifically to inform the voters in the proposed district. We have found, in working on past LID projects, that including the public in the initial phases pays many

dividends in the future. Also, it would still be possible to modify the bidding documents to satisfy any citizen concerns.

Task 3 Final Design and Preparation of Bidding Documents

It is our intent to tailor the existing City Specifications to this project. All drawings will be on 24" x 36" sheets. The scope will be clearly defined and the project outlined for the Contractor.

Task 4 Bid Project

Upon receipt of approval from the voters and the Council, the project will be advertised for bidding. Alaska Rim Engineering will present a copy of the Specifications, Drawings and Bid Documents to the Deputy Administrator.

The Project Engineer will hold a pre-bid conference. This will eliminate a lot of random phone calls and a general waste of time by Contractors seeking information.

The Project Engineer will attend the Bid Opening and review all Bid Documents. He will assist the Deputy Administrator in recommending award to the Council.

Task 5 Preconstruction Conference

If the bids are within the project budget and it is awarded, the Engineer will hold a preconstruction conference. The purpose of this conference is to assure specification compliance with the minimum amount of field supervision. It also allows for all parties to meet on friendly terms and establish working relationships. It should also be attended by the staff members included in the meeting for Task 1.

Task 6 Contract Administration And Inspection

Upon receiving the Notice to Proceed, the Contractor will begin reconditioning the roadbed and preparing the site for construction. After the roadbed has been reconditioned, Alaska Rim Engineering survey crews will provide subbase bluetops along the center line of the project.* This will provide the required control to the contractor by the Engineer. The project will have an inspector from Alaska Rim Engineering spot checking the application of the base, requiring compaction tests and inspecting the entire paving process. As each major phase of work is undertaken, the Project Engineer will be on hand to establish project standards.

*Not Rep'd but
re commended*

* NOTE: The surveying under this task item will require certified payroll at prevailing wages.

Upon completion, the Project Engineer and a field technician will measure and certify the quantities of materials used on the job. At this time, Alaska Rim will employ Mark Hansen, P.E., to core and test the asphalt to assure density, material composition, and thickness placed. The Project Engineer will then evaluate the final, and only, pay estimate. A final estimate and certificate of acceptance will be issued to the Deputy Administrator. The Project Engineer will assure that there are no outstanding liens or debts associated with the project and assure that the assessment roles could be established.

Task 7 Set Assessments

The Project Engineer will assist the Deputy Administrator in establishing the assessment roles for the finished project. He will assist in the calculations of the per lot charges. The Engineer will also attend the Council meeting where the assessment role is established. This is historically where the problems will occur. The public may not understand the total cost of the project and many need over or under runs explained. We have found it very useful to have the Engineer attend these meetings.

Polk

TASK & FEE SCHEDULE

LAKEVIEW AVENUE PAVING LID PROJECT

Task 1	Engineer	3 hrs	\$ 225.00		\$ 225.00
Task 2	Engineer	8 hrs	\$ 600.00		
	Steno	2 hrs	70.00		
	2 Man Crew	16 hrs	1440.00		\$ 2,110.00
Task 3	Engineer	15 hrs	\$ 1125.00		
	Auto Cad Tech	48 hrs	2880.00		
	2 Man Crew	30 hrs	2700.00		
	Steno	8 hrs	280.00		\$ 6,985.00
Task 4	Engineer	4 hrs	\$ 300.00		
	Steno	2 hrs	70.00		\$ 370.00
Task 5	Engineer	2 hrs	\$ 150.00		
	Steno	1 hr	35.00		\$ 185.00
Task 6	Engineer	40 hrs	\$ 3000.00		
	2 Man Crew	16 hrs	2560.00		
	(prevailing wages required for survey)				
	Technician	8 hrs	400.00		
	Steno	4 hrs	140.00		\$ 6,100.00
<i>Delete</i> Task 7	Engineer	8 hrs	\$ 600.00		
	Steno	2 hrs	70.00		<u>\$ 670.00</u>

Alaska Rim Engineering Sub-Total	\$16,645.00
Estimated Third Party Testing Charges	\$ 2,225.00
Total Estimated Professional Service Costs	\$18,870.00
Not to Exceed	\$20,000.00

The above costs are based upon the City's acceptance of the attached methodology as a scope of professional services. It is understood that the City may reserve the right to award any or all of the above referenced Tasks. There would be no monies transferred between Tasks. Each Task Cost should be considered "not to exceed" for the scope of work presented. Alaska Rim Engineering would be happy to do any additional work, at the rates on the attached fee schedule, as directed by the Deputy Administrator. We would consider any work not

specifically stated in the methodology section as extra. A cost for any extra work would be given to the Deputy Administrator and approved prior to any work being performed.

Billings will be on a semi-monthly basis and be based on actual work performed by Task. Each billing will be accompanied by a narrative, prepared by the Project Engineer, explaining all work accomplished and the Project's status to date.

FEE SCHEDULE

Effective 1/1/94 through 12/31/94

	Per Hour
Principal	\$ 75.00
Professional Engineer	\$ 75.00
Professional Land Surveyor	\$ 75.00
Staff Engineer	\$ 65.00
Engineering Technician	\$ 50.00
AutoCad Technician	\$ 60.00
Computer Technician	\$ 50.00
Draftsman	\$ 42.00
Clerical	\$ 35.00
One Man Survey Crew	\$ 65.00
Overtime	\$ 70.00
Two Man Survey Crew	\$ 90.00
Overtime	\$ 109.00
Three Man Survey Crew	\$ 115.00
Overtime	\$ 140.00
Expert Witness	\$ 150.00
Standby	\$ 75.00

SUPPLEMENTARY INFORMATION

Regular overtime shall be defined as all hours worked in excess of eight hours per day and all time worked on Saturdays and Sundays. All transportation, equipment and supplies shall be considered direct costs and billed to the client, cost plus 15% for handling. Crew rates would change if Davis-Bacon wages are part of the contract.

DENALI NORTH

P.O. Box 870086
Wasilla, Alaska 99687

November 15, 1993

Wasilla, City of
290 E. Herning Avenue
Wasilla, Alaska 99654-7091

Attn: Robert E. Harris
Deputy Administrator

Re: Lakeview Avenue Paving Project

Dear Mr. Harris,

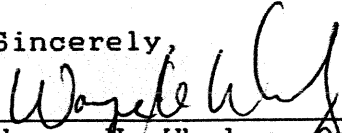
This is a proposal to prepare the following for the above referenced project:

- I. Engineers Estimate
- II. Design Drawings And Bid Documents
- III. Contract Administration for this project

A site inspection indicated that this project is approximately 1-mile, or 5,280 L.F., with the first 1,200 L.F. to be constructed to a width of 24^o ft. The remainder of the project, will be constructed to a width of 20^o ft. Our primary research indicates that there is a 60^o ft. R.O.W. on this project, which should contain the construction of this project. During our inspection, no significant problems were observed, however, the preliminary survey and inspections should reveal any potential design or construction problems, which could effect the engineering or construction estimates. Another consideration to costs will be the weather at the time when authorization to precede is given.

We appreciate the opportunity to bid on this project, and look forward to working with the City of Wasilla. If you have any questions, please feel free to contact our office.

Sincerely,



Wayne N. Whaley, Owner

11/15/93 Page 1 of 3

LAKEVIEW AVENUE - PROJECT COST ESTIMATE

I. Engineers Construction Cost Estimate

1) Preliminary Field Survey & Inspections	\$ 1,700.00
2) Engineers Estimate	1,100.00

Sub Total	\$ 2,800.00

II. Engineering, Design Plans, & Bid Documents

1) Field Survey	\$ 3,000.00
2) Design & Drafting 2 - Plan View (only) Sheets 1 - Detail Sheet	9,000.00
3) Administration & Bid Documents	3,500.00

Sub Total	\$ 15,500.00

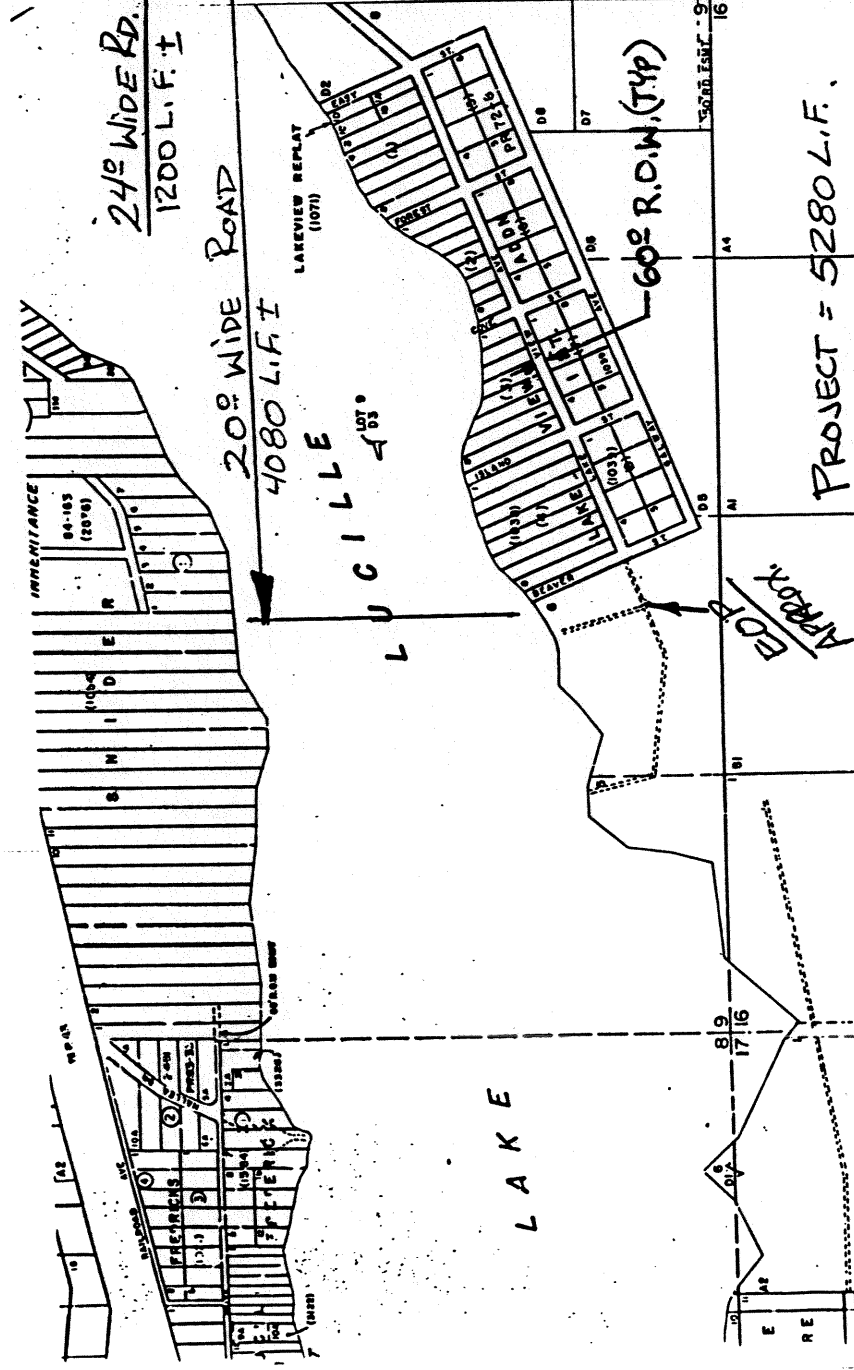
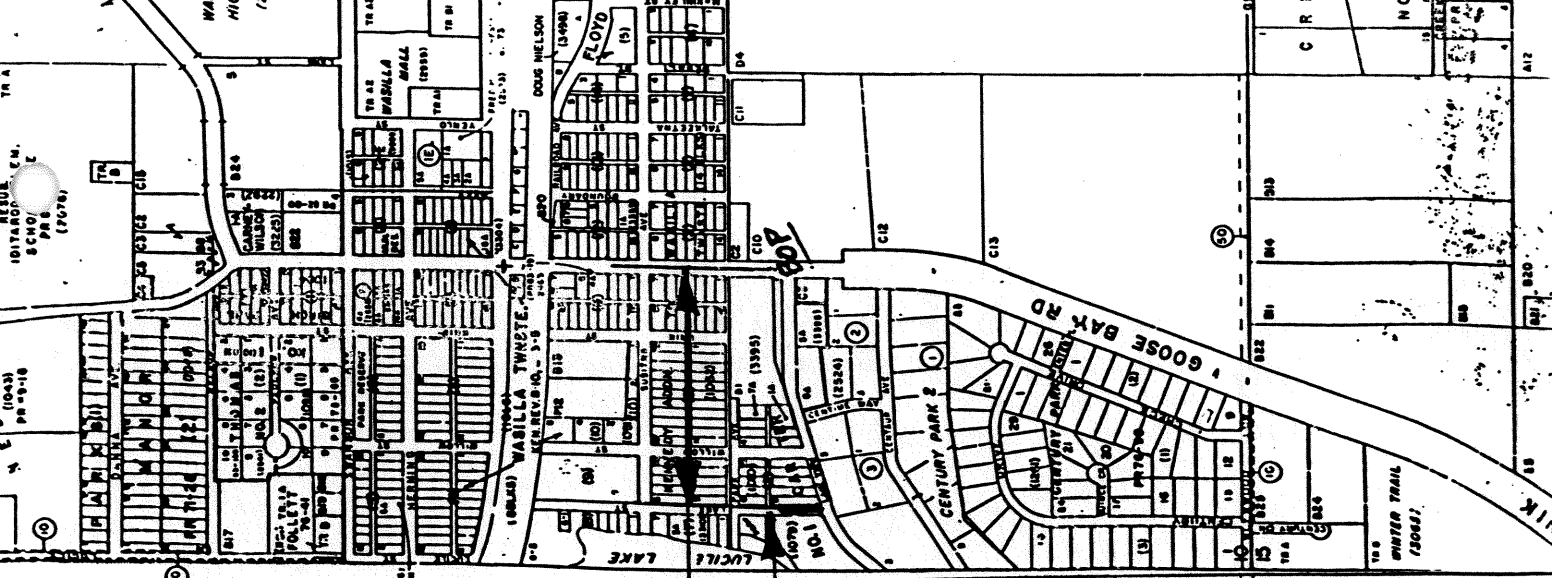
III. Contract Administration

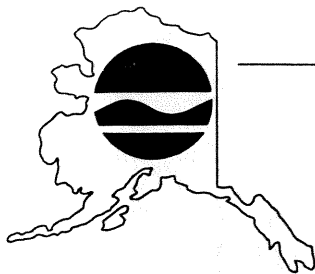
1) Contract Administration	\$ 14,000.00
2) Testing	3,000.00
3) Construction Surveying (Stake R.O.W. only)	3,500.00

Sub Total	\$ 20,500.00

TOTAL THIS ESTIMATE: **\$ 38,800.00**
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LAKEVIEW AVENUE PROJECT





Gilfilian Engineering, Inc.

Professional Environmental Consultants

Main Office: 255 E. Fireweed Lane, Suite 102, Anchorage, Alaska 99503
(907) 277-2021 • FAX (907) 274-8683

Mat-Su Office: 1800 E. Parks Highway, Suite D-100, Wasilla, Alaska 99654
(907) 376-3005 • FAX (907) 373-5686

November 15, 1993

Mr. Robert Harris
Administrative Assistant
City of Wasilla
290 E. Herning Avenue
Wasilla, AK 99687

RECEIVED

NOV 15 1993

City of Wasilla, Alaska

RE: **LAKEVIEW AVENUE**
Proposal for Engineering Services
Paving Local Improvement District (LID)
GEI Proposal No. PRO93058

Gentlemen:

Gilfilian Engineering, Inc. (GEI) is pleased to submit this proposal to provide professional services for the design and contract administration of the Lakeview Avenue Upgrade and Paving Project. This proposal is in response to your October 28, 1993 Request for Engineering Services.

Our entire project team will be composed of local Valley professionals with in-depth experience and knowledge of the project area. We are proposing a project team lead by Gilfilian Engineering, Inc. as the prime consultant and Mr. Jack Hughes, P.L.S. as the Professional Land Surveyor. The survey subcontractor will be responsible for providing all the survey control work and road alignment staking described in this proposal. GEI will be responsible to complete the engineering design, provide assistance during the bidding phase, and complete the contract administration during the project construction.

Gilfilian Engineering, Inc. is located within a few minutes driving distance of the project site and has several years of experience working for the City of Wasilla on a number of capital improvement projects. We believe the approach described herein will provide efficient, professional services to the City of Wasilla.

The project consists of the strip paving of approximately 4,680 lineal feet of existing gravel roadway. The roadway section will consist of a 24-foot paved top from Knik-Goose Bay Road to Lake Street, and the remainder to be paved to a 20-foot width.

We would be pleased to provide additional information or answer any questions you may have on this proposal. Please feel free to contact me at 376-3005.

Respectfully Submitted,

GILFILIAN ENGINEERING, INC.



C. Peter Curtis
Project Engineering Assistant

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