

LEG. FINANCE - BILLS 1983 - 1984 2000
SB 15 cont. 2000

Northwest Arctic School District:

Water Main Hookup 50.0

Sec. 5. Department of Environmental Conservation:

\$.2 million

Water/sewer feasibility studies in Anvik, Eek, Nulato, Telida, and

Platnum 200.0

Introduced: 1/18/83
Referred: Community and Regional
Affairs and Finance

Funding Information
General Fund \$28,000,000
Other Funds -0-
\$28,000,000

BY GILMAN, STURGULEWSKI
AND P.FISCHER

1 IN THE SENATE

2

SENATE BILL NO. 15

3

IN THE LEGISLATURE OF THE STATE OF ALASKA

4

THIRTEENTH LEGISLATURE - FIRST SESSION

5

A BILL

6 For an Act entitled: "An Act making a supplemental appropriation to the
7 Department of Environmental Conservation; and provid-
8 ing for an effective date."

9 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

10 * Section 1. The sum of \$28,000,000 is appropriated from the general
11 fund to the Department of Environmental Conservation for grants for water
12 and sewer facility construction authorized by AS 46.03.030.

13 * Sec. 2. This Act takes effect immediately in accordance with AS 01.-
14 10.070(c).

Offered: 2/23/83
Referred: Rules

Original sponsors: Gilman, Sturgulewski
and P. Fischer

Funding Information
General Fund \$87,986,500
Other Funds -0-
\$87,986,500

1 IN THE SENATE BY THE FINANCE COMMITTEE
2 CS FOR SENATE BILL NO. 15 (Finance)
3 IN THE LEGISLATURE OF THE STATE OF ALASKA
4 THIRTEENTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act making a supplemental appropriation to the
7 Department of Environmental Conservation for water
8 and sewer grants; special appropriations to an
9 unincorporated community and municipalities for
10 water, sewer or solid waste grants, to the Department
11 of Education for a water grant, and to the Department
12 of Environmental Conservation for water and sewer
13 studies; and providing for an effective date."

14 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

15 * Section 1. The sum of \$28,000,000 is appropriated from the general
16 fund to the Department of Environmental Conservation for payment as grants
17 for water and sewer facility construction under AS 46.03.020 - 46.03.030 to
18 the following communities: Anchorage, Aniak, Bristol Bay Borough, Cordova,
19 Fairbanks, Haines, Homer, Houston, Hydaburg, Juneau, Kake, Kenai, Kenai
20 Peninsula Borough, Ketchikan, Ketchikan Public Utilities, Nome, North Pole,
21 Petersburg, Sand Point, Scammon Bay, Seward, Sitka, Soldotna, Upper
22 Kalskag, Valdez, Wasilla, and Wrangell.

23 * Sec. 2. The sum of \$838,000 is appropriated from the general fund to
24 the unincorporated community of Igiugig for payment as a grant for water,
25 sewer, and solid waste facility construction.

26 * Sec. 3. The sum of \$57,898,500 is appropriated from the general fund
27 to the following municipalities for payment as grants for water and sewer
28 facility construction.

29 Municipality of Anchorage:

1	Eagle River/Chugiak water	\$1,850,000
2	Point Woronzof wastewater plant	3,300,000
3	Port of Anchorage, AREA D & U.S.	1,000,000
4	Port of Anchorage, Lot 12B	4,800,000
5	Ship Creek water treatment plant	6,000,000
6	Solid waste landfill project	315,000
7	Akihiok:	
8	Sanitary landfill development	460,000
9	Bethel:	
10	Bethel sewer line extension	400,000
11	Bristol Bay Borough:	
12	South Naknek village well	87,000
13	Chevak:	
14	Watering points	848,000
15	Craig:	
16	Water and sewer Phase I completion	1,000,000
17	Dillingham:	
18	Airport Heights Subdivision water	
19	development	300,000
20	City of Fairbanks:	
21	Sewer drainage upgrade	960,000
22	Sludge disposal facility	850,000
23	Van Horn interceptor	360,000
24	Fairbanks North Star Borough:	
25	Ballaine Lake sewer service	700,000
26	Fort Yukon:	
27	Fort Yukon water and sewer system	3,700,000
28	Haines:	
29	Allen Road to Sawmill Road waterline	33,500

1	Hoonah:	
2	Water and sewer upgrade Phase I	3,600,000
3	Hydaburg:	
4	Water and sewer upgrade (additional	
5	to DEC \$2.5 million)	2,500,000
6	Iliamna/Newhalen:	
7	Water development	340,000
8	City and Borough of Juneau:	
9	Juneau water system development	7,000,000
10	Kake:	
11	Fourth Avenue loop water and portage	
12	cove extension	860,000
13	Kaktovik:	
14	Kaktovik grey water facility	450,000
15	Klawok:	
16	Water and sewer improvements	500,000
17	Kotzebue:	
18	Water and sewer expansion	1,100,000
19	Larsen Bay:	
20	Water and sewer	370,000
21	McGrath:	
22	Water delivery Phase I	1,150,000
23	Minto:	
24	Phase I water and sewer system	335,000
25	Mt. Village:	
26	Washeteria	700,000
27	Near Island:	
28	Water and sewer engineering	350,000
29	Nikolai:	

1	On site water and sewer system	400,000
2	Nome:	
3	Nome water, sewer, and utilidor system	1,000,000
4	Noorvik:	
5	Water and sewer expansion	600,000
6	Old Harbor:	
7	Sewer renovation	1,160,000
8	Palmer:	
9	Sewage plant expansion	2,370,000
10	Port Lions:	
11	Bayview Dr. sewer Phase I	132,000
12	Savoonga/Punik Island:	
13	Water and sewer	452,000
14	Seldovia:	
15	Water and sewer extension	506,000
16	Sitka:	
17	Blue Lake water source	3,000,000
18	Unalakleet:	
19	Water main extension	500,000
20	Wasilla:	
21	Wastewater facility	1,400,000
22	Septic treatment	160,000
23	* Sec. 4. The sum of \$1,050,000 is appropriated from the general fund	
24	to the Department of Education for payment as grants for water facility	
25	construction authorized and disbursed under AS 14.11 to the following	
26	school districts:	
27	Bering Straits School District:	
28	Water projects (Teller, Brevig Mission,	
29	Golovin, and Shishmaref)	1,000,000

1 Northwest Arctic School District:

2 Water main hookup 50,000

3 * Sec. 5. The sum of \$200,000 is appropriated from the general fund to
4 the Department of Environmental Conservation for water and sewer feasibil-
5 ity studies in Anvik, Eek, Nulato, Telida, and Platinum authorized under
6 AS 46.03.020.

7 * Sec. 6. The appropriations made under secs. 2 and 3 of this Act shall
8 be disbursed in accordance with AS 37.05.315 - 37.05.319.

9 * Sec. 7. This Act takes effect immediately in accordance with AS 01.-
10 10.070(c).

POSITION PAPER

CSSB15(FIN)

Fiscal propriety demands that the State maintain project monitoring capability to ensure that the grant funds are spent for the project, and are managed according to Borough or Municipal fiscal procedures. Accordingly, a minimal State operating budget impact will be felt with the passage of each special appropriation under AS 37.05.315-37.05.319, such as this specific bill proposes. I should point out at this time that local governments have recognized their similar responsibilities when awarding grants to local social service providers, etc. Municipalities charge an administrative overhead fee of one to three point eight percent per grant. The Department of Administration requests that the specific grant appropriation language acknowledge a State agency overhead factor of up to .5% (one half of one percent) as Department of Administration operating costs for all special appropriations awarded under AS 37.05.315.

The Department questions the historical practice promoted under AS 37.05.315 and wonders if the Department of Community and Regional Affairs might be of better assistance to local governments through its Local Government Assistance program. Whereas the Department of Administration functions as a centralized control agency for all other Executive Branch agencies, the Department of Community and Regional Affairs is specifically charged with the responsibility of assisting local government in maximizing services to citizens.

Kenneth R Ryals 3/1/83
Kenneth R. Ryals

Lisa Rudd 3/4/83
Lisa Rudd, Commissioner of Administration



Official Business

Alaska State Legislature

Senate

Office of the President

2/23/83
Kerttula

Pouch V
State Capitol
Juneau, Alaska 99811

MEMORANDUM

DATE: February 18, 1983

TO: Senator Don Bennett
Co-Chairperson, Finance Committee

FROM: Senator Jay Kerttula
Senate President

The attached material was recently received in my office. It is the Wasilla sewer project for the water and sewer bill. I am forwarding it to you for your information and the perusal of your committee.

PRIORITY

NO. 2

PROJECT NAMESEPTIC
TREATMENTFUNDING REQUEST

\$160,000.00

PROJECT SYNOPSIS

To keep costs for priority No.1 as low as possible, a major fraction of Wasilla will be served with innovative/alternative systems which depend on septic tanks. The septic tanks must be pumped on a regular basis. The Houston septage treatment facility will not have enough capacity to serve Wasilla in addition to the rest of the Borough. Wasilla will need it's own septage treatment facility. These funds are required to construct an innovative alternative demonstration project for the Septic Treatment and Disposal System. The system is designed as a low cost disposal method for septic waste. The techniques to be applied have been proven for wastes that are as strong as septic, but have not actually been used for septic treatment. If, as experts around the nation believe, the system will work as designed, significant financial savings could accrue to communities throughout Alaska by use of this system.

backup material
is attached

STATE PRIORITIES

PROJECT SYNOPSIS

<u>PRIORITY</u>	<u>PROJECT NAME</u>	<u>FUNDING REQUEST</u>
NO.1	Wasilla Waste Water Facilities System	\$1,400,000.00

Alaska Department of Environmental Conservation has funded STEPS I & II for Wasilla Waste Water Facilities Planning and has an estimated requirement in FY-84 of \$1,400,000 for construction grant funds for the City of Wasilla. Wasilla is the largest City in the State without a centralized sewerage facility. The growth, economic viability and the future health and welfare of the citizens of the City depends largely on the construction of adequate collection and treatment facilities. Recent tests indicate a deterioration in the quality of water, including fecal coliform, in Lakes Wasilla and Lucille. Request that the highest legislative priority be made to ensure that DEC receives full funding and priority for the Wasilla project.

back-up material
for this project is
forth coming

CITY OF WASILLA, ALASKA, LEGISLATIVE PRIORITIES

CAPITAL IMPROVEMENT PROJECTS 1983

WASILLA SEPTIC TREATMENT FACILITY

PRIORITY # 2

PROJECT DESCRIPTION:

As an intermediate and immediate measure to provide a short term solution to the problems created by (1) a population increase and (2) its resulting impacts, and (3) on-site septage treatment facility to serve its community. The Houston septage treatment facility, when it is on-line, will not have the capacity to serve Wasilla in addition to the rest of the Borough.

There are no septage treatment facilities in the Mat-Su Borough in use at the present time. Septage is hauled to Anchorage for disposal. During late 1982, the two active sewage pumping services were contacted to determine the present quantities of septage produced in the Borough. Approximately 2.9 million gallons of sewage was produced this year within the Borough with a substantial quantity increase occurring in the immediate future. The proposed septage treatment facility at Houston has a design capacity of 2.5 million gallons.

The City of Wasilla must include a septage treatment facility in its capital improvements plan programming since the Houston facility will not be able to accept the increased load anticipated from the regularly pumped septic tanks within the Wasilla area.

TIME TABLES FOR PROJECTS COMPLETION:

Attached is a time line schedule for the project. Estimated project commencement will begin during the first of the 1984 year.

BUDGETARY NEEDS:

Legislative or other State assisted funding in the amount of \$185,786.00 is required to cover those costs as attached.

OPERATION AND MAINTENANCE COSTS:

It shall be necessary for the City of Wasilla to establish a user fee for the operation and maintenance of the project. Additionally, this project shall "dovetail" with Priority #1-Wasilla Sewage Collection and Treatment Facility with its overall intent to act as an interim measure and serve the immediate needs of the community.

CITY OF WASILLA, ALASKA, LEGISLATIVE PRIORITIES

CAPITAL IMPROVEMENT PROJECTS 1983

WASILLA SEPTIC TREATMENT FACILITY

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IMPACT ON THE
ECONOMIC DEVELOPMENT
OF THE COMMUNITY:

There will be a positive impact on the economic development of the community. The cost of residential, commercial, and industrial property development shall be lower due to lack of need for sewage pumping and hauling to Anchorage.

LOCAL EMPLOYMENT
EFFECTS:

Local employment will be created for this project during the planning, design and construction phases as well as after the system goes on line in the form of operation and maintenance. The real benefit of this type of development as the State readily sees is its provision of needed infrastructure for the stable and productive growth of private sector employment security.

IMPACT ON THE
MAINTENANCE OF
LIFE, HEALTH AND
SAFETY:

The City of Wasilla is experiencing a growth rate of 15% to 30% annually. With this, housing development has brought an increase of on-site sewage disposal systems. The City's water is taken from wells and provided to part of the community through a distribution network. This combined with a high water table has created a sensitive environment, including two lakes, which will be negatively impact through the potential pollution emanating from on-site sewage disposal in a high water table.

SUPPORTING
DOCUMENTATION:

Attached to this narrative is the Matanuska-Susitna Borough's statement of support. The project has also been cited as supported and needed by other Borough, State and Federal reports and findings.

CONTACT:

Michael John Tavoliero, Administrative Officer,
P.O. Box 430, Wasilla, AK 99667
(907) 376-5227/ 376-3893

PLAN OF STUDY
PROPOSED SEPTAGE TREATMENT FIELD DEMONSTRATION PROJECT

On July 2, 1982, the existing EPA Facilities Planning Grant for the City of Wasilla was increased to provide for an additional planning effort in order to produce an acceptable facilities plan. A copy of the Plan of Study for that effort is attached hereto (Appendix A). Items A, B, C, E and F in that Plan of Study which are required for a POS have not changed and will be incorporated into this POS by reference. This POS will address items D, G and H as required by the EPA Construction Grants Program.

D. An amendment to the previous grants for Facilities Planning for the study area is necessary for the following reasons:

The additional planning effort funded by the July 2, 1982 increase will emphasize the use of Innovative/Alternative solutions. It is anticipated that the result will include a number of septic tanks which must be pumped and maintained on a regular schedule. The purpose of I/A solutions is to provide facilities that can be operated and maintained at a cost the community can afford. The facilities plan, therefore, must address the problem of septage treatment and disposal. There are no septage treatment facilities in the Hat-Su Borough at the present time. Septage is hauled to Anchorage for disposal. Two pumpers are active in the Borough at the present time. They were each contacted to determine the present quantities of septage produced in the Borough. A-1 Cesspool Service, the largest, estimates that, on an average, they pump 10,000 gallons per day, five days a week, or 2.6 million gallons per year. P&B Septic Services have pumped 180,000 gallons from January 1st to August 15th of this year. They anticipate that the rate will probably increase during the balance of the year. This translates to approximately 0.28 million gallons per year. The total amount of septage currently produced in the borough, therefore, is approximately 2.9 million gallons per year. That quantity can be expected to increase over the next ten years.

APPENDIX I

A proposed septage treatment facility is scheduled to be built in the Big Lake area. It is anticipated that that facility will be completed during the summer of 1983. It will have a design capacity of 2.5 million gallons. The estimated cost of the facility is \$521,000 for a cost of \$208,400 per million gallon capacity. The designers estimate the O&M costs to be \$16.10 per thousand gallons for the first year of operation.

The Wasilla facilities plan must include septage treatment facilities since the proposed plant at Big Lake will not be able to accept the increased load anticipated from the regularly pumped septic tanks within the Wasilla facility plan boundaries. The proposed plant to be funded by this grant increase employs an Innovative/Alternative solution. The 1981 changes in Public Law 92-500 allow for a field demonstration project for an I/A solution during the planning stage to develop the design parameters and to insure that a full scale project will be economically designed or will not be built if the innovative process does not function as intended. If approved, the increased grant will be used to pay for constructing a facility designed for a target capacity of 2,000 gallons per day or .73 million gallons per year. The 2,000 GPD design target was selected for two reasons. The pumper supplying the septage normally carries 2,000 gallons making it more reliable to expect a 2,000 gallon load per delivery. Also, this size project will be necessary to prevent scale up uncertainties when the full scale project is built. This project will be designed to permit it to be incorporated into the full scale project if practical. The projected capital costs for the facility are estimated to be \$152,000 per million gallons capacity as compared to \$208,400 per million gallon capacity for the Big Lake plant. The estimated operation and maintenance costs will be \$10.74 per 1,000 gallons as compared to \$16.10 per thousand gallons for the Big Lake plant. These costs are for a completely self-contained small facility. Both the capital costs per million gallons and the O&M costs per 1,000 gallons can be expected to be lower for a full size plant since the relationship is not linear.

By combining the septage treatment facility with a sewage treatment plant, such as an aerated lagoon, it is probable that the second stage fluidized bed, the building housing it, and the subsurface disposal system

can be eliminated. The effluent from the first stage solid separation phase would be discharged directly into the sewage treatment plant. This will drastically reduce both the first cost and the O&M costs for pretreating septage since all that will be required will be a series of concrete tanks to settle out the settleable solids.

The proposed plant will consist of a six compartment concrete tank heated and insulated and buried with the top 8" above ground level. The top will serve as the foundation and floor of the building housing the second stage fluidized bed. The tank will have a total capacity of 20,000 gallons. Compartment #1 will act as a flow equalization tank with a capacity of 5,000 gallons. The contents will be pumped at a uniform rate into tanks #2, 3, and 4 which will serve as three septic tanks in series. The effluent from tank 4 will be collected in tank 5 and will be pumped from tank 5 through the second stage fluidized bed reactor. The effluent from the second stage will go into tank 6. Tank 6 will have a dosing siphon chamber which will discharge into a subsurface soil absorption field. Sludge collected in tanks 2, 3 and 4 will be pumped as necessary to a sludge drying bed. The sludge drying bed will have four compartments for flexibility and the dried sludge will be picked-up with a front-end loader and buried in a landfill at the site. The second stage anaerobic fluidized bed has been investigated by EPA. EPA publication 600/2-82-004, dated February, 1982, entitled "Technology Assessment of Anaerobic Systems for Municipal Waste Water Treatment" reports on an EPA sponsored study of the use of an anaerobic fluidized bed to provide secondary treatment for domestic wastes. The anaerobic fluidized bed consists of a vertical tube, in this case two feet in diameter, containing finely divided media, for example ion exchange media, and a pump. The pump is sized to maintain a vertical velocity such that the particles are suspended continuously but the velocity is too low for wash-out. The anaerobic bacteria collect on the surface of the media. The gases produced in this case will be flared. The process is extremely simple and maintenance free since the only piece of equipment is a pump. The anaerobic fluidized bed we propose to use in the study was developed by the Ecolotrol Corporation of New York. The chief of research for Ecolotrol, Roger Olson, advises that Ecolotrol has conducted pilot studies on a number of very strong wastes but never on

septage. The most closely comparable waste was a food processing waste with BOD, suspended solids and COD comparable to those reported for settled septage in the literature. The pilot study was successful for the food processing waste. The reactor will be built by Ecolotrol and shipped to Wasilla for installation in the building. Ecolotrol has offered technical support for the study at no cost. The research engineer from the EPA Research Lab in Cincinnati who was the project engineer for the EPA study described above, Robert Bowker, has also offered technical support. Finally, Dr. Tim Tillsworth, Professor of Sanitary Engineering at the University of Alaska, who has investigated extensively the physical and chemical characteristics of septage in Alaska, has offered technical support.

The demonstration project will be built on land owned by the City of Wasilla and located approximately 1.5 miles southwest of the City center adjacent to the Knik-Goosebay Highway. A site plan with test hole data is attached (Appendix B). The surrounding area is undeveloped and owned by the State.

The success of this system will also be beneficial to the Mat-Su Borough since they will be responsible for funding and operating future septage treatment facilities. They have authorized \$8,000 to partially fund the study. For their \$8,000, they will receive a copy of the report and be kept up-to-date technically on the study. A copy of the agreement is enclosed with this application.

Sampling and testing will be accomplished by subcontract with Mat-Su Test Lab.

Among the objectives of this study are the following:

- 1) The literature contains no reference to septage studies conducted to determine the settlability of the solids over a relatively long period of time. The results reported generally are from Imhoff cone tests of sixty minutes. The material in a septic tank before it is pumped typically includes a settled sludge

layer on the bottom, a scum layer on the top, and a liquid fraction between the two which is the material discharged to the subsurface disposal system in the typical SI-SAS home system. An important part of the study will be to measure the BOD, COD and suspended solids in each of the compartments of the solids separation phase to determine the rate at which solids separation occurs. The concrete tank will be equipped with thermostatically controlled heating pads so that the effect of temperature on settleability can be determined. Finally, a retention time at temperatures in the mesophilic range is expected to enable the solids separation phase to function as an inefficient anaerobic digester. Results of this analysis will impact on the capacity of the second stage reactor.

- 2) Efforts to utilize municipal aerated lagoons for treatment of septage have failed because of the heavy build-up of solids at the point where septage enters the lagoon. If the settleable solids are removed during the initial solids separation phase, it would be reasonable to believe that the effluent from the solids separation phase could be introduced into a lagoon or other treatment facility without creating a problem. The elimination of the second phase fluidized bed, the building housing it and the subsurface absorption system will drastically reduce the first cost and the O&M costs.
- 3) The study above will also permit the determination of the pattern of settleable solids build-up in the solids separation phase. For example, a five to eight day retention time for the solids separation phase may not be necessary.
- 4) The usefulness of using an anaerobic fluidized bed for the second stage treatment will be determined. For a self-contained facility where the effluent is disposed of in a subsurface soil absorption system, the important parameter is suspended solids. The ability of an anaerobic fluidized bed to reduce suspended solids will be critical. Also, in most of the studies

A recap of the costs for the project is as follows:

Design (12%)		\$ 11,140.00
Soils Investigation		2,260.00
Construction		110,036.00
Construction Management (5%)		4,633.00
Study		46,000.00
OMH during Study		
Power	\$ 1,657.00	
Septage Hauling	6,500.00	
Total OMH		\$ 8,157.00
Legal and Administrative (2%)		3,540.00
TOTAL		185,786.00

It is proposed that the city will let six separate contracts for the construction phase which will be prepared by Pohl and Associates. They will be:

<u>CONTRACT NO.</u>	<u>WORK TO BE DONE</u>	<u>ESTIMATED COST -</u>
1	Clearing & Sitework	\$ 12,477.00
2	Concrete Tank	13,009.00
3	Building	21,463.00
4	6" Cased Well	1,182.00
5	Fluidized Bed Unit	44,941.00
6	Fencing (6" Chain Link)	6,977.00
	TOTAL	\$ 100,051.00
	Contingency (10%)	<u>10,005.00</u>
		\$ 110,056.00

Construction Management will be by Pohl and Associates.

8 of 12
accomplished to-date by Ecocontrol, they have observed a two to three month period after start-up until the methane formers in the column have reached the necessary concentration. If the methane formers can begin to be established in the heated and insulated solids separation tank, it would appear that this start-up period could be reduced.

S) Finally, the subsurface absorption system will be divided in four parts in an effort to determine the suspended solids levels which can be discharged to the drains without damaging the bed.

G. The schedule for completion of each specific task necessary to complete the study has been prepared. Table 1 lists the major tasks, shows their sequencing and the approximate amount of time to complete each one.

H. Table 2 lists the estimated costs for each major task and the total estimated costs.

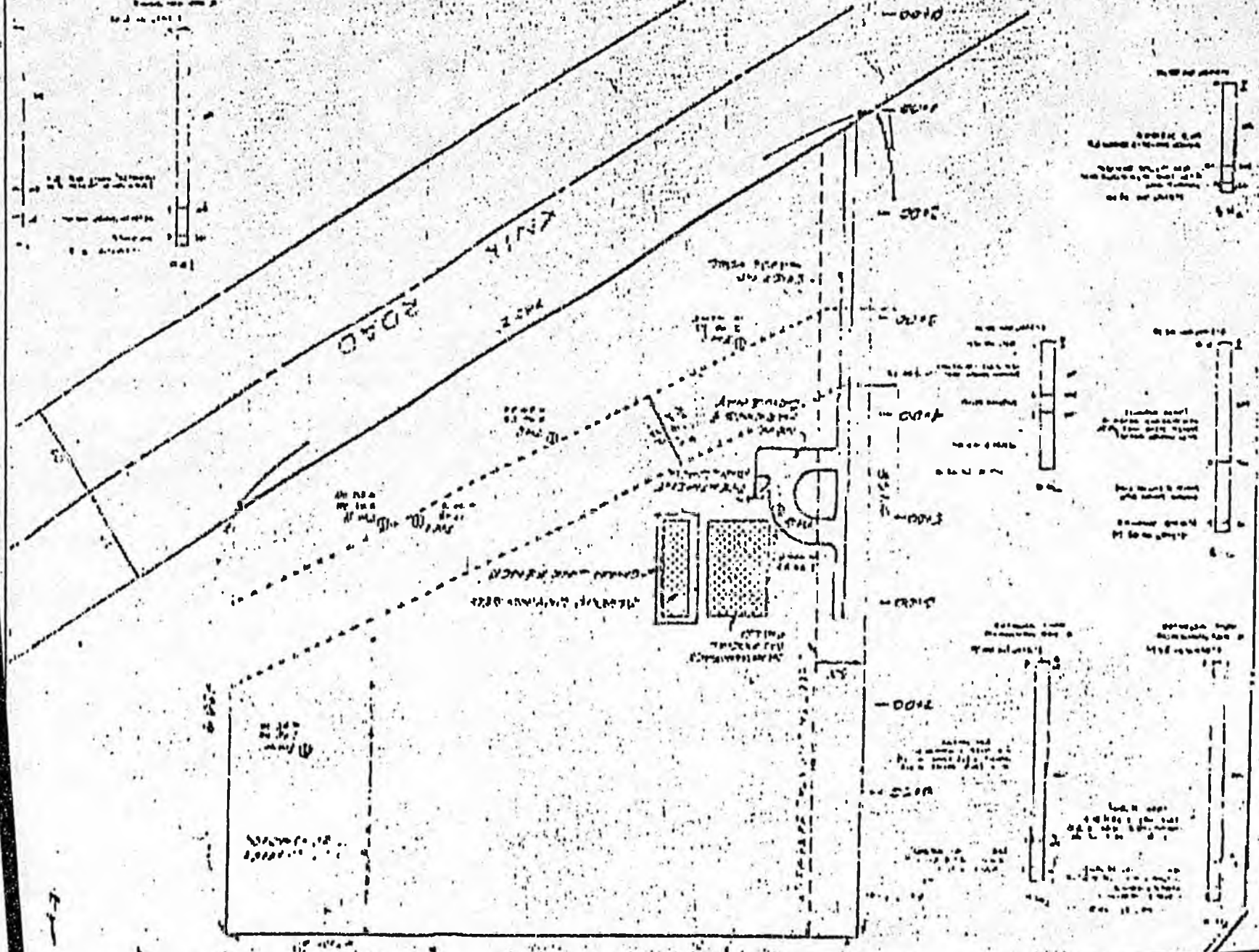
WASILLA, ALASKA
 SEWAGE TREATMENT DEMONSTRATION
 SITE PLAN AND SOIL LOG TEST

DATE: 11/15/57
 DRAWN BY: J.P.P.
 CHECKED BY: J.P.P.
 SCALE: 1" = 100'

POH, Y ASSOCIATES
 4100 OLIVE ST. FARM DRIVE
 ANCHORAGE, ALASKA 99503



NOTE: THIS SITE PLAN IS BASED ON DATA AND SURVEY INFORMATION PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS AND SOIL LOG TESTS TO VERIFY THE DATA AND SURVEY INFORMATION. THE ENGINEER HAS NOT CONDUCTED A GEOTECHNICAL INVESTIGATION OR SOIL BORING TO DETERMINE THE EXACT LOCATION AND DEPTH OF THE UNDERGROUND UTILITIES. THE ENGINEER HAS NOT CONDUCTED A GEOTECHNICAL INVESTIGATION OR SOIL BORING TO DETERMINE THE EXACT LOCATION AND DEPTH OF THE UNDERGROUND UTILITIES.



at or above

TABLE 1
SCHEDULE OF TASKS

TASKS	WEEKS									
	4	8	12	16	20	24	28	32	36	40
A. Program Management & Administration	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XX
B. Obtain Soils Data	X									
C. Design Facility	XXX									
D. Let Construction Contracts	X	X								
E. Construction		XXXX		X						
F. Construction Management										
G. Purchase Lab Equipment		X								
H. Conduct					XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
I. Prepare Report										X XX

x - Anticipated Work Weeks

2/17/83
Sen. Fischer

MEMORANDUM

2/17/83

TO: Senate Finance Committee Members

FROM: Senator Vic Fischer

RE: Proposed CSSB 15 (Fin) - Water & sewer projects

COMPONENTS OF PROPOSED COMMITTEE SUBSTITUTE:

- Sec. 1. DEC projects -- \$28 million per DEC matching grants list
(Backup provided)
- Sec. 2. Village Safe Water Program projects - per Sen. Sackett's list
(Backup provided)
- Sec. 3. Municipal water & Sewer grants - per Sen. Sackett's, Sen. Bennett's
and other lists (Backup provided)

Lists:

Anchorage \$17.2 million, 100% grant (backup provided)

Fairbanks \$2.9 million, 100% grant (backup provided)

Palmer

Seldovia \$.5 million, 100% grant (backup provided)

Wasilla

Sitka \$3.0 million, 50% grant (backup provided)

Klawock \$.5 million, 50% grant (backup provided)

Haines \$33.5 thousand, 50% grant (backup provided)

Craig \$1.0 million, 100% grant (backup provided)

Hoonah \$3.6 million, 100% grant (backup provided)

Hydaburg \$ 2.2 million, 100% grant (backup provided)

Take \$860 thousand, 100% grant (backup provided)

And others yet to be provided

MEMORANDUM

2/17/83

TO: Senate Finance Committee Members

FROM: Senator Vic Fischer ✓

RE: SB 15 (water & sewer appropriation)

Attached please find the backup information for the Department of Environmental Conservation list of proposed water, sewer, and solid waste capital projects. The information was provided by Mr. Keith Kelton, of the DEC.

NOTE: The department was unable to provide (on fairly short notice), all the information on projects proposed for the \$28 million list. This is a fairly representative sample and further information can be obtained from Mr. Kelton (465-2610).

I have been assured by the DEC that all these projects are ready for construction this year and that the local matching funding is secure for each. I have invited Mr. Kelton as well as representatives of the Municipality of Anchorage to testify before the Committee regarding these projects.

Please let me know if there is any further information I can provide.

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>			
	Note: Attachments A B & C are required for for all projects		
1. Administrative Expenses ¹		2,984	1.
2. Legal Expenses ¹		760	2.
3. Engineering Design Fees ²	D or E	18,249	3.
4. Project Inspection and Surveying ²	D or E	16,728	4.
5. Construction ²	D or F	152,072	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		15,207	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	206,000	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		103,000	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		103,000	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		2,040	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		12,360	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs		10,300	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	24,700	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	230,700	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

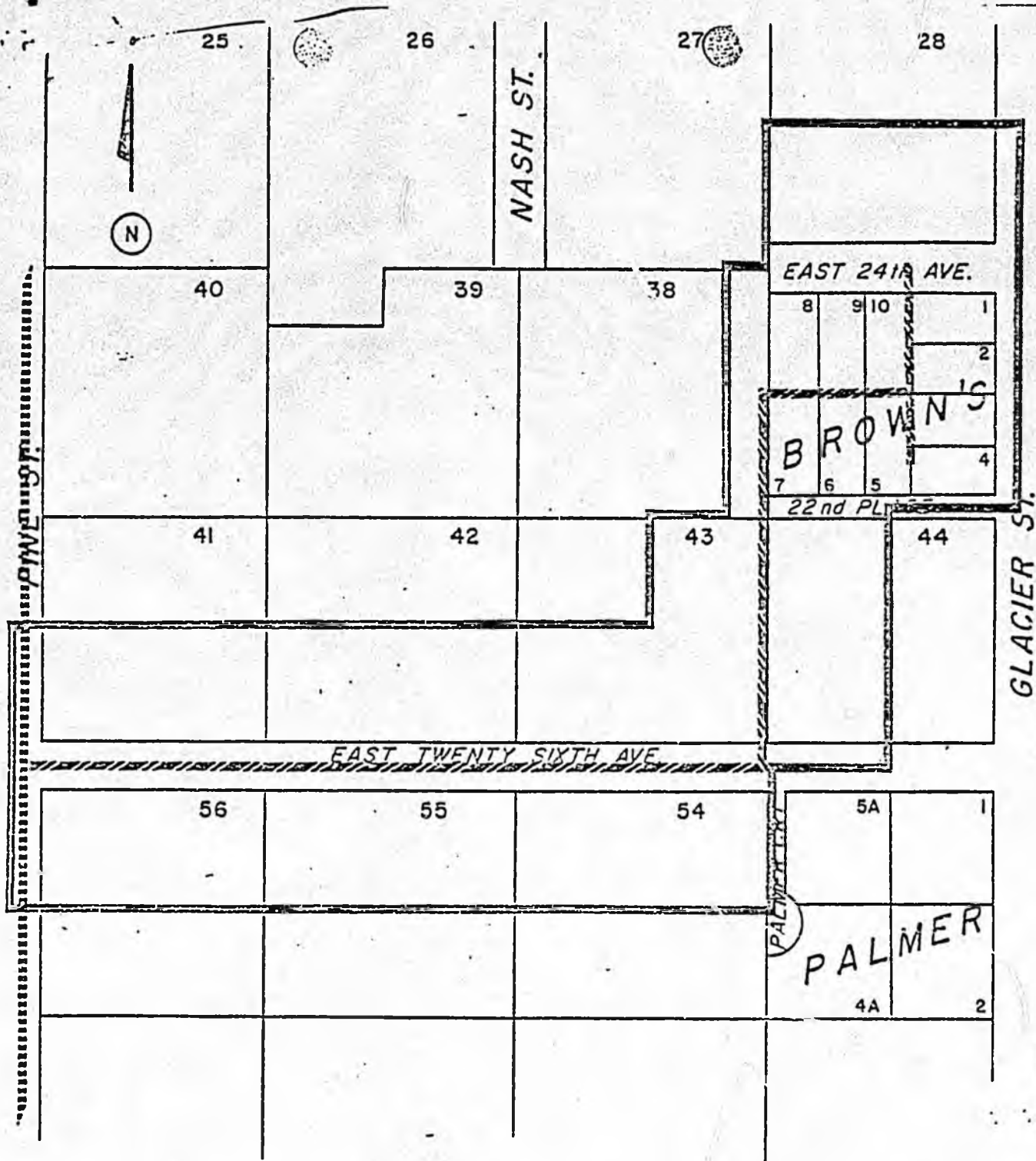
PROJECT NARRATIVE

BROWN'S LID 121

Brown's Lateral Improvement District No. 121 is a sanitary sewer project which will expand the Anchorage sanitary sewer network by approximately 1,944 linear feet. The L.I.D. was introduced to the Municipal Assembly September 8, 1981, through the Assembly Memorandum 866-81. Public Hearing has been set for September 29, 1981. The L.I.D. is located in city grid 1537 in the vicinity of Pine Street and East 26th Avenue.

Lateral Improvement District No. 121 was created at the request of a property owner in Brown's Resubdivision. The L.I.D. will serve nineteen (19) properties, all R-2 zoning, Multiple Family Residential District. Public sanitary sewer will encourage orderly development and minimize potential subsurface contamination of water sources by eliminating area saturation of private on-site wastewater disposal systems.

Attachment A



BROWN L.I.D. # 121

- L.I.D. BOUNDARY
- EXISTING SEWER
- PROPOSED SEWER

2

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Stella, LID 133
S81(22)3522

Number of Lots 34 and Persons 119 benefitting from this project.

Estimated Construction Period: Oct. 1981 Start March 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 107,850

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith Acting General Manager 11-4-81

Typed Name Title Date

Robert E. Smith

Signature

505

CORRECTION

**THIS DOCUMENT
HAS BEEN REPHOTOGRAPHED
TO ASSURE LEGIBILITY**

2

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

3000 Arctic Boulevard

Applicant Mailing Address: Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Stella, LID 133

S81(22)3522

Number of Lots 34 and Persons 119 benefitting from this project.

Estimated Construction Period: Oct. 1981 Start March 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 107,850

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith

Acting General Manager

11-4-81

Typed Name

Title

Date

Robert E. Smith

Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	<i>\$99⁵⁰/LF</i>	
1. Administrative Expenses ¹		2% 3,123	1.
2. Legal Expenses ¹		0.5% 796	2.
3. Engineering Design Fees ²	D or E	12% 19,108	3.
4. Project Inspection and Surveying ²	D or E	11% 17,516	4.
5. Construction ²	D or F	159,234	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 15,923	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	215,700	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		107,850	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		107,850	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		2,073	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		12,942	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs		10,785	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	25,800	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	241,500	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (a)(1) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

PROJECT NARRATIVE

STELLA L.I.D. 133

Stella L.I.D. 133 in-house lateral sewer design, as planned, will consist of approximately 1,600 linear feet of 8-inch Ductile Iron Pipe. The proposed 8-inch will connect into an existing manhole at the intersection of 72nd Avenue and Basel Street, extend east to Zurich Street, and north along Stella Street for approximately 1,000 feet (see attached map).

The proposed main is presently being designed to serve Lake Otis Heights and McCaughey residential subdivisions.

Attachment A


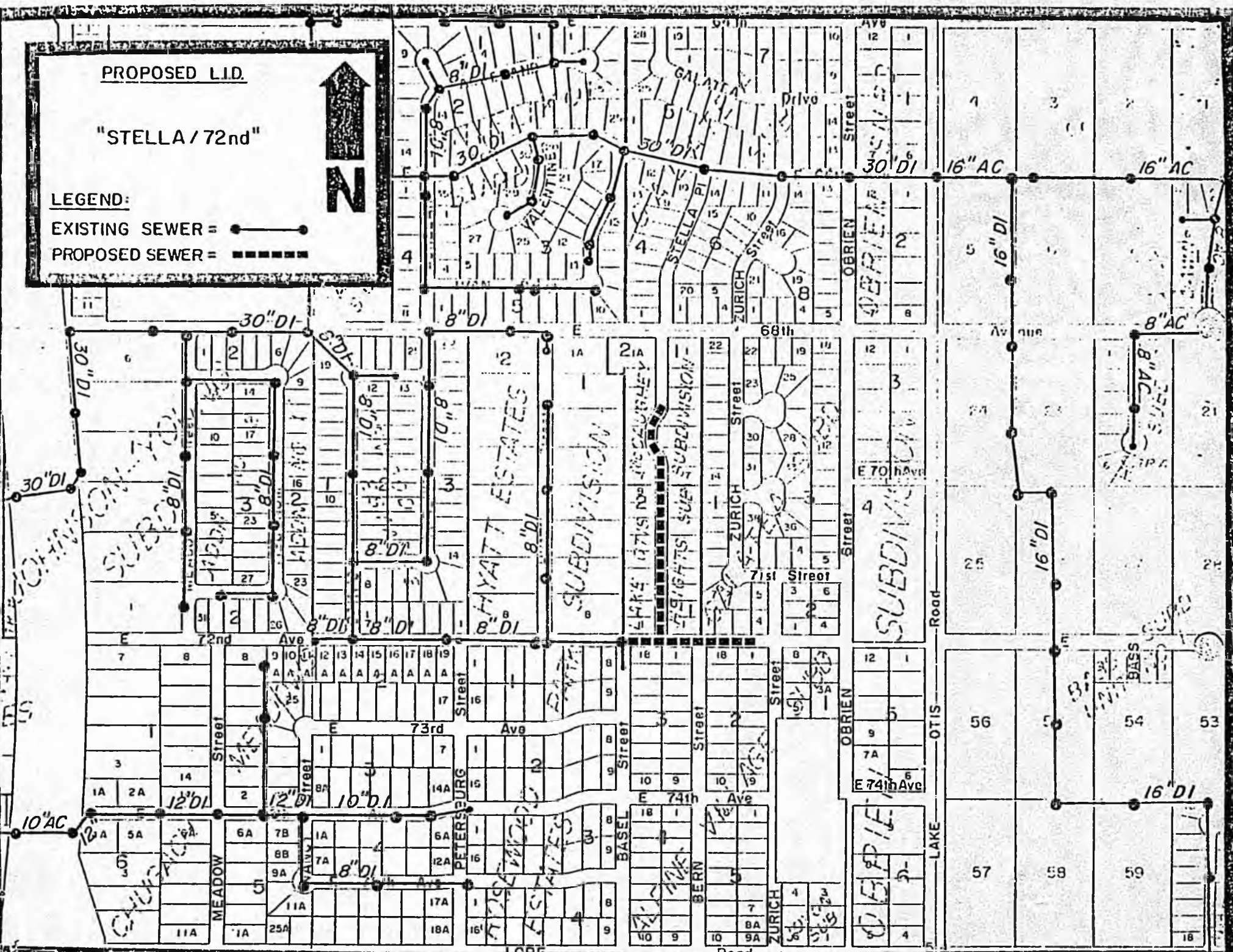
Attachment B

PROPOSED L.I.D.

"STELLA / 72nd"

LEGEND:
 EXISTING SEWER = —●—
 PROPOSED SEWER = - - - - -

N

3

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

3000 Arctic Boulevard

Applicant Mailing Address: Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Library, LID 131

S81(23)3522

Number of Lots and Persons benefitting from this project.

Estimated Construction Period: Oct. 1981 Start March 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 301,200

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith

Acting General Manager

11-4-81

Typed Name

Title

Date

Robert E. Smith

Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS		
<u>ELIGIBLE COSTS</u>				
1. Administrative Expenses ¹	Note: Attachments A B & C are required for for all projects	8,810	1.	
2. Legal Expenses ¹		2,223	2.	
3. Engineering Design Fees ²		D or E	53,356	3.
4. Project Inspection and Surveying ²		D or E	48,910	4.
5. Construction ²		D or F	444,637	5.
6. Equipment		G	0	6.
7. Other Costs		H	0	7.
8. Project Contingencies			44,464	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	602,400	9.	
10. Amount of Line 9 provided by Federal Grants		0	10.	
11. Amount of Line 9 provided by Other State Agencies		0	11.	
12. Amount of Line 9 provided by Applicant		301,200	12.	
13. Amount of Existing ADEC Grant		0	13.	
14. Amount of Line 9 Currently Requested from ADEC		301,200	14.	
<u>INELIGIBLE COSTS</u>				
15. Land and Easement Acquisition Costs ³		5,936	15.	
16. Purchase of Private Utilities		0	16.	
17. Interest and Finance Charges		36,144	17.	
18. Formation Costs of Local Improvement Districts		0	18.	
19. Comprehensive Plans and Feasibility Studies		0	19.	
20. Grant Application Preparation Costs		30,120	20.	
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	72,200	21.	
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	674,600	22.	

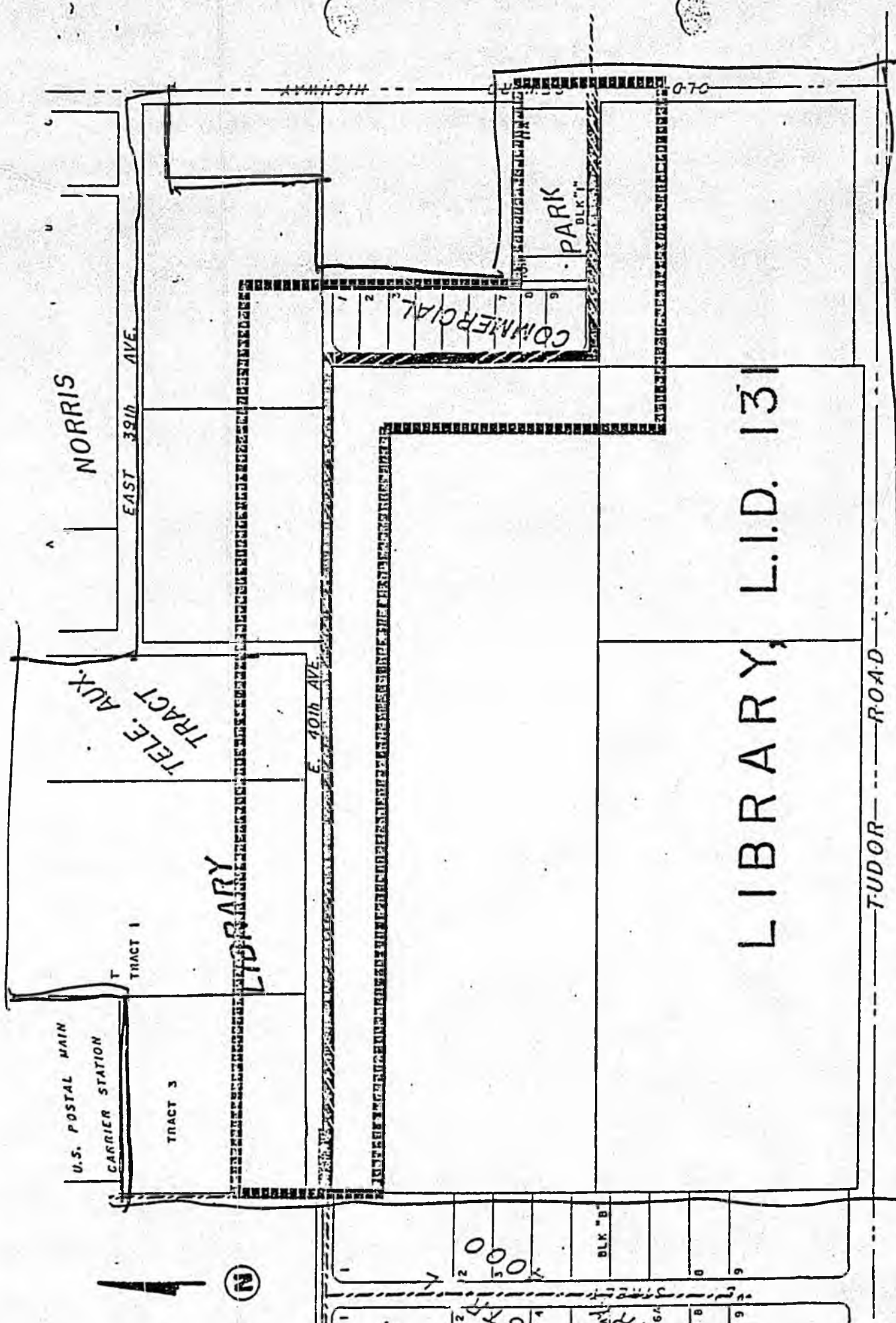
1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (3)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

PROJECT NARRATIVE

LIBRARY L.I.D. 131

The rapid commercial development of the area between Tudor Road and Northern Lights Boulevard has created a need, as well as a strong demand, for sanitary sewer service. The Anchorage Municipal Assembly created Library L.I.D. 131 on August 18, 1981 with AO 81-109.

In an effort to relieve the force main and pump station on the eastern tie-in, and create gravity flow, this line will be oversized to 16-inch to match existing and provide for the commercial needs in this area. The project consists of approximately 3276 L.F. of 16-inch D.I.P. with all appurtenant fixtures.



PROJECT SURVEY BOUNDARY

PROPOSED 16" SEWER

4

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Abbott Loop Manor, LID 132

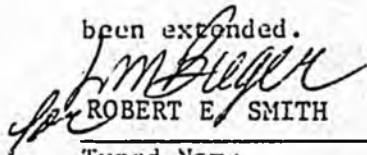
Number of Lots 51 and Persons 178 benefitting from this project.

Estimated Construction Period: December 1981 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 292,650

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.


ROBERT E. SMITH

Acting General Manager

12-29-81

Typed Name

Title

Date

Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION		ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS		
<u>ELIGIBLE COSTS</u>		Note: Attachments A B & C are required for for all projects	592.50/LF		
1.	Administrative Expenses ¹		2%	8,603	1.
2.	Legal Expenses ¹		0.5%	2,160	2.
3.	Engineering Design Fees ²		12%	51,838	3.
4.	Project Inspection and Surveying ²		11%	47,518	4.
5.	Construction ²			431,983	5.
6.	Equipment		G	0	6.
7.	Other Costs		H	0	7.
8.	Project Contingencies			10% 43,198	8.
9.	SUBTOTAL (Lines 1-8)	SUBTOTAL	585,300	9.	
10.	Amount of Line 9 provided by Federal Grants		0	10.	
11.	Amount of Line 9 provided by Other State Agencies		0	11.	
12.	Amount of Line 9 provided by Applicant		292,650	12.	
13.	Amount of Existing ADEC Grant		0	13.	
14.	Amount of Line 9 Currently Requested from ADEC		292,650	14.	
<u>INELIGIBLE COSTS</u>					
15.	Land and Easement Acquisition Costs ³		5,817	15.	
16.	Purchase of Private Utilities		0	16.	
17.	Interest and Finance Charges		35,118	17.	
18.	Formation Costs of Local Improvement Districts		0	18.	
19.	Comprehensive Plans and Feasibility Studies		0	19.	
20.	Grant Application Preparation Costs		29,265	20.	
21.	SUBTOTAL (Lines 15-20)	SUBTOTAL	70,200	21.	
22.	TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	655,500	22.	

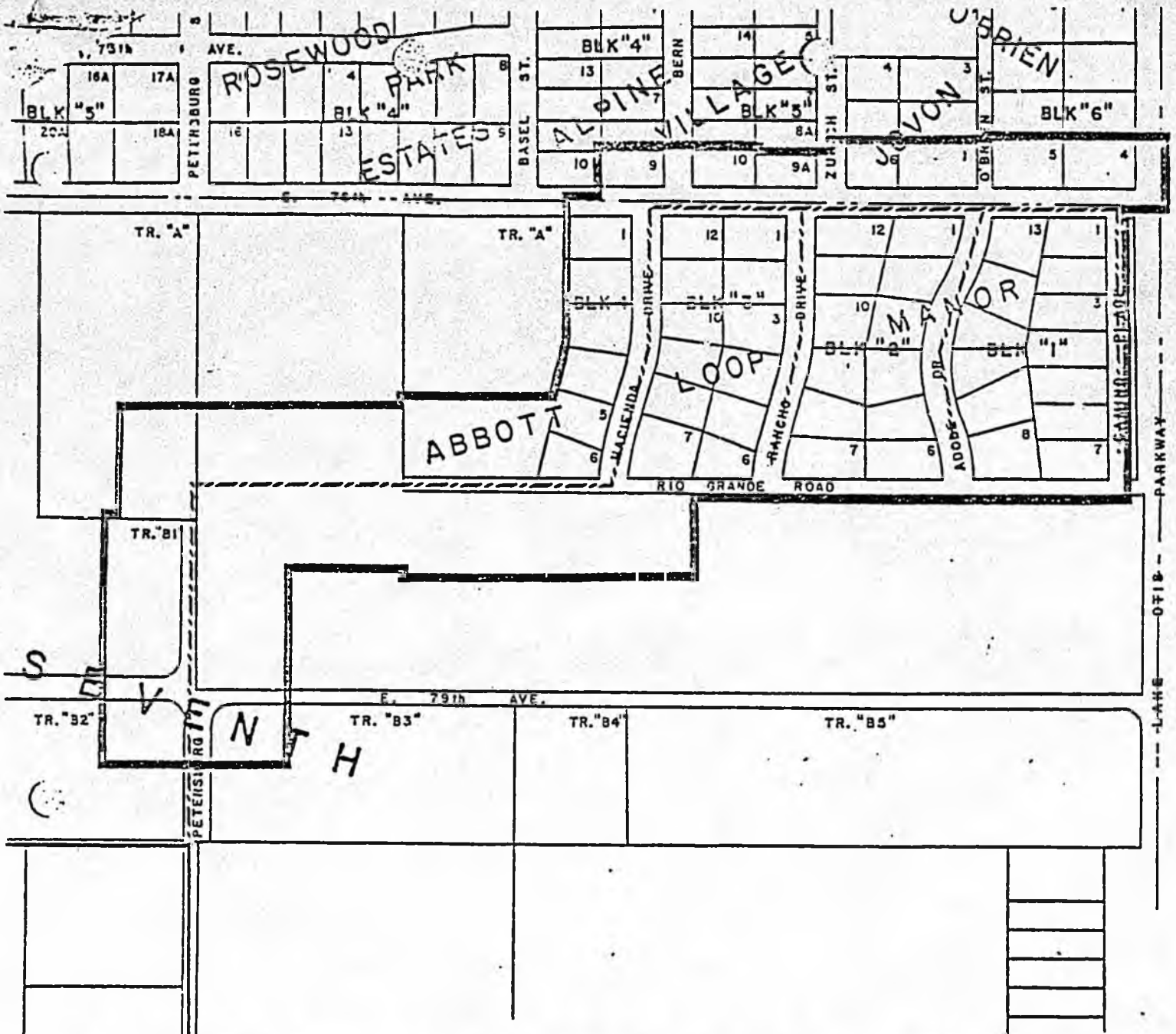
1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

PROJECT NARRATIVE

ABBOTT LOOP MANOR L.I.D. #132

This project consists of approximately 4,670 L.F. of 8-inch Ductile Iron Pipe. This is a homeowner initiated project located at 76th and Lake Otis.

This project is as requested by the Homeowners and will eliminate health problems that could arise due to increasing failure of on-site disposal systems.



ABBOTT LOOP MANOR, L.I.D. #132

- L.I.D. Boundary
- Existing Sewer
- Proposed Sewer



Attachment B

5

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION		ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS		
<u>ELIGIBLE COSTS</u>		Note: Attachments A B & C are required for for all projects D or E D or E D or F G H	\$83.98 LF		
1.	Administrative Expenses ¹		2%	2,005	1.
2.	Legal Expenses ¹		0.5%	509	2.
3.	Engineering Design Fees ²		15%	15,274	3.
4.	Project Inspection and Surveying ²		11%	11,201	4.
5.	Construction ²			101,828	5.
6.	Equipment			0	6.
7.	Other Costs			0	7.
8.	Project Contingencies			10,183	8.
9.	SUBTOTAL (Lines 1-8)	SUBTOTAL	141,000	9.	
10.	Amount of Line 9 provided by Federal Grants		0	10.	
11.	Amount of Line 9 provided by Other State Agencies		0	11.	
12.	Amount of Line 9 provided by Applicant		70,500	12.	
13.	Amount of Existing ADEC Grant		0	13.	
14.	Amount of Line 9 Currently Requested from ADEC		70,500	14.	
<u>INELIGIBLE COSTS</u>					
15.	Land and Easement Acquisition Costs ³		1,390	15.	
16.	Purchase of Private Utilities		0	16.	
17.	Interest and Finance Charges		8,460	17.	
18.	Formation Costs of Local Improvement Districts		0	18.	
19.	Comprehensive Plans and Feasibility Studies		0	19.	
20.	Grant Application Preparation Costs		7,050	20.	
21.	SUBTOTAL (Lines 15-20)	SUBTOTAL	16,900	21.	
22.	TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	157,900	22.	

- Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
- With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (2)(2) establishes specific force account procedures and eligibilities.
- The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

Narrative

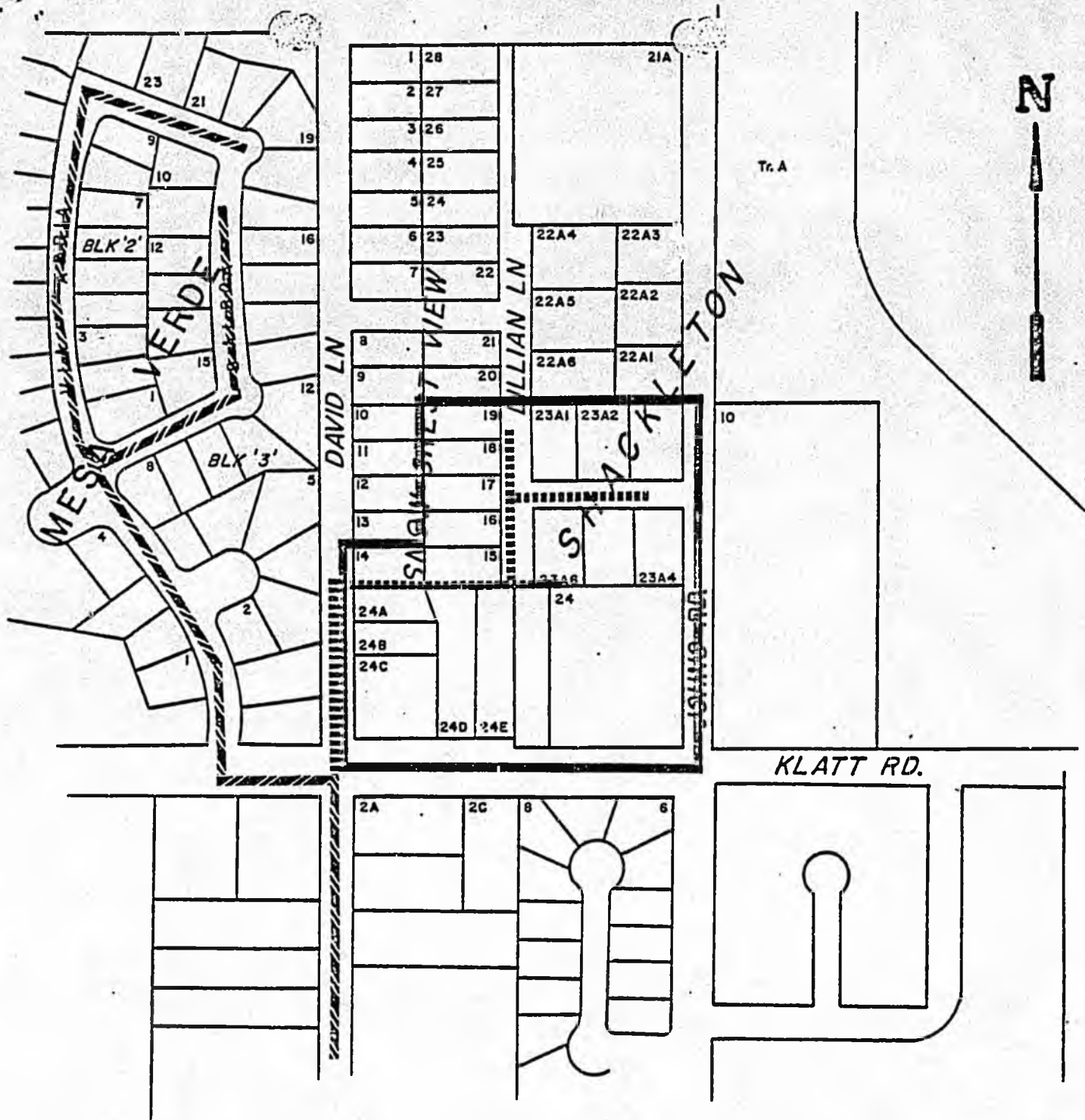
SHACKLETON LID 79

Shackleton LID 79 is a sanitary sewer project which involves the design and construction of an estimated 1214 linear feet of 8-inch ductile iron pipe and related sanitary sewer appurtenances. This project will provide public sanitary sewer facilities to 19 properties in the Shackleton and Snow Crest View Subdivisions (Gird 2630).

Shackleton Subdivision, Lots 23A1 thru 23A6, Lot 24 (2 parcels) and Lots 24A thru 24E.

Snow Crest View Subdivision, Lots 14 thru 19.

The majority of these properties range from quarter-acre to third-acre lots. On-site wastewater disposal systems if developed on each lot would provide a saturation density capable of threatening contamination of potable groundwater supplies in this area. Public sewer could thwart a potential health hazard.



SHACKLETON L.I.D. # 79

- L.I.D. BOUNDARY
- EXISTING SEWER
- PROPOSED SEWER

6

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water xx Sewerage Solid Waste

Project Descriptive Title: Alpine Village LID 135

S82(2)3522

Number of Lots 68 and Persons 238 benefitting from this project.

Estimated Construction Period: January 1982 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 238,200

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

ROBERT E. SMITH

Acting General Manager

January 22, 1982

Typed Name

Title

Date

Robert E. Smith

Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	\$ 877,48 LF	
1. Administrative Expenses ¹		2% 6,853	1.
2. Legal Expenses ¹		0.5% 1,720	2.
3. Engineering Design Fees ²	D or E	15% 51,599	3.
4. Project Inspection and Surveying ²	D or E	11% 37,839	4.
5. Construction ²	D or F	343,990	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 34,399	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	476,400	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		238,200	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		238,200	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		4,696	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		28,584	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs		23,820	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	57,100	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	533,500	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

Narrative

Alpine Village LID 135

Alpine Village Lateral Improvement District No. 135 is a sanitary sewer project created through Assembly Ordinance 81-203 which will provide sanitary sewer to sixty-eight properties as defined below:

Rosewood Park Estates

- Block 1, Lot 9
- Block 2, Lots 8 & 9
- Block 3, Lots 8 & 9
- Block 4, Lots 8 & 9

Alpine Village

- Block 1
- Block 2, Lots 2 through 17
- Block 3, Lots 2 through 16
- Block 4, Lots 10 through 18

O'Brien Subdivision

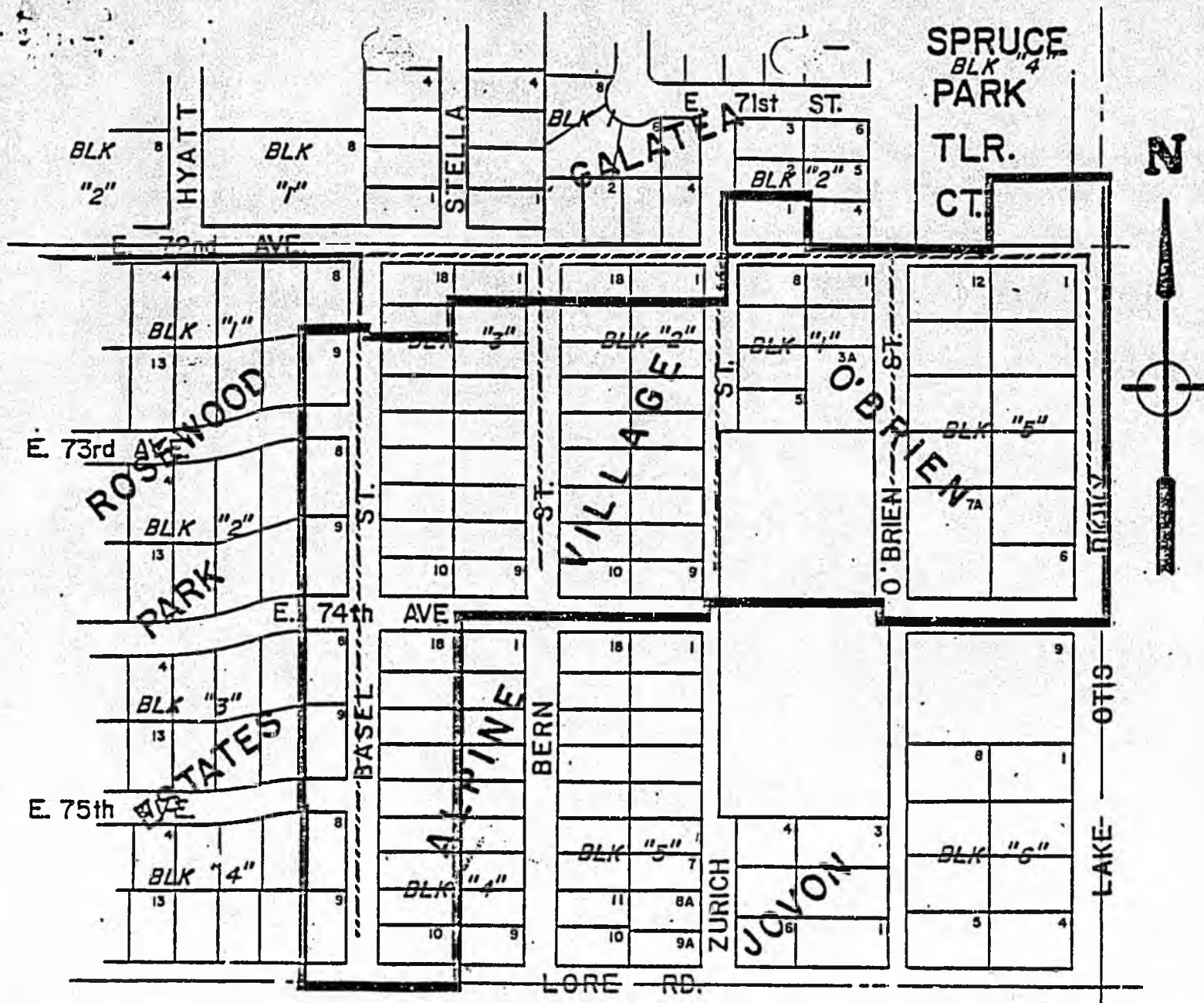
- Block 5
- SE corner Block 4 (Spruce Park Trailer Court)

Galatea Estates Subdivision

- Block 2, Lot 1

(Grid 2133)

This project includes design and construction of an estimated 3932 linear feet of 8-inch ductile iron pipe and related sanitary sewer appurtenances. The LID will contribute to the orderly development of the area and will also thwart contamination of potable groundwater supplies which may have occurred through proliferation of on-site wastewater disposal system.



ALPINE VILLAGE, L.I.D. # 135

- L.I.D. Boundary
- Proposed Sewer
- Existing Sewer

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

7

APPLICATION FORM

Municipality: Municipality of Anchorage
 Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504
 Application Prepared by: Robert E. Smith
 Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Zodiak. LID 85
S82(3)3522

Number of Lots 28 and Persons 98 benefitting from this project.

Estimated Construction Period: January 1982 Start June 1983 . Finish

Amount of State Grant Funds Requested from ADEC: \$ 60,250

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

ROBERT E. SMITH Acting General Manager January 22, 1982
 Typed Name Title Date
Robert E. Smith
 Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	<i>\$60.41 LF</i>	
1. Administrative Expenses ¹		1.9% 1,666	1.
2. Legal Expenses ¹		0.5% 435	2.
3. Engineering Design Fees ²	D or E	15% 13,059	3.
4. Project Inspection and Surveying ²	D or E	11% 9,576	4.
5. Construction ²	D or F	87,058	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 8,706	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	120,500	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		60,250	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		60,250	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		1,145	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		7,230	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs		6,925	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	14,400	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	134,900	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

Narrative

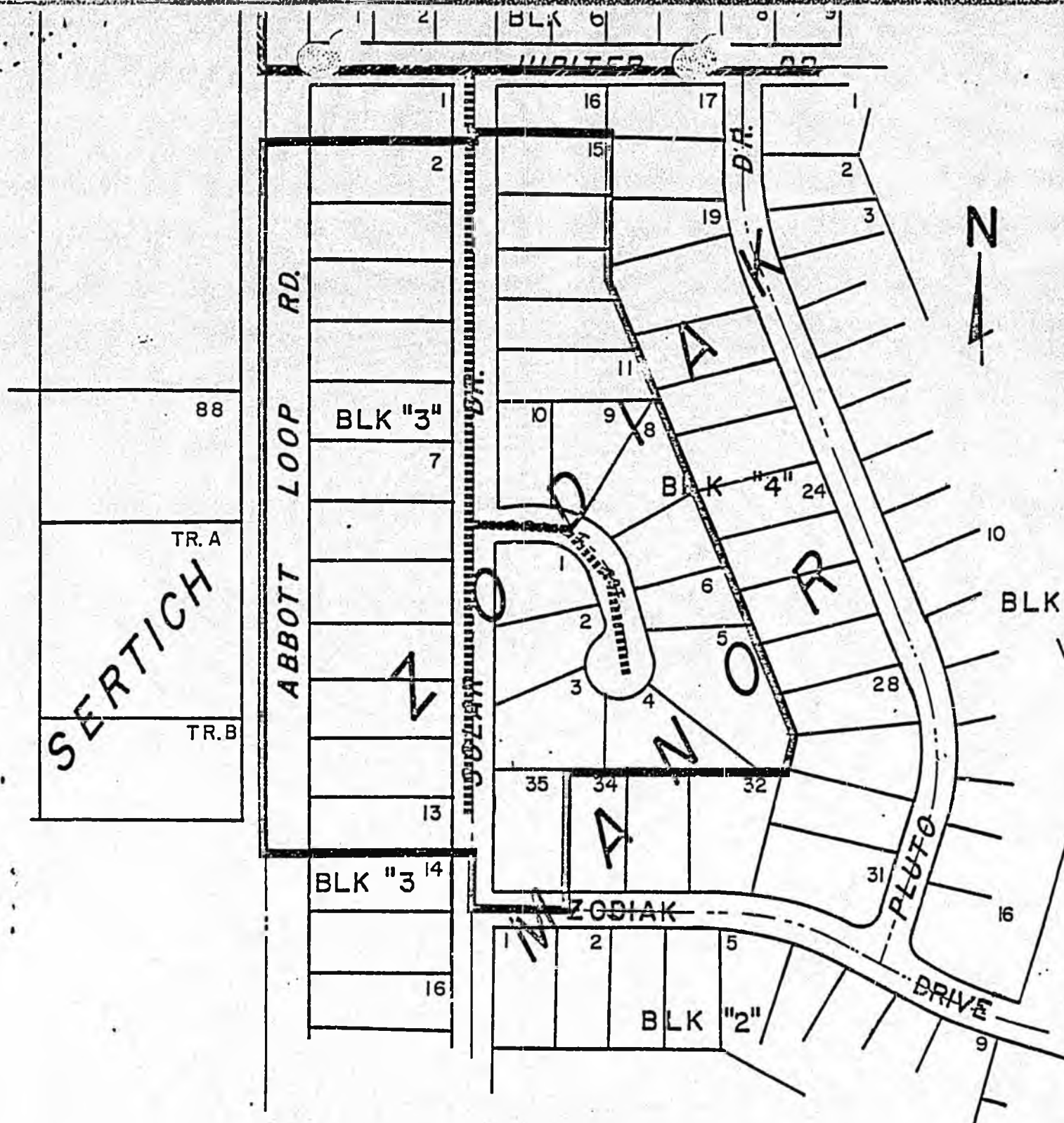
Zodiak LID No. 85

Zodiak LID No. 85 is a sanitary sewer project which involves the design and construction of an estimated 1440 linear feet of 8-inch ductile iron pipe and related sanitary sewer appurtenances. The project will provide public sanitary sewer facilities to 28 properties in the Zodiak Manor Subdivision:

Block 3, Lots 2 thru 13

Block 4, Lots 1 thru 15 and Lot 35

These properties in general have areas in the neighborhood of 17,000 square feet, considerably less than half acre lots. On-site wastewater disposal systems if developed on each lot would provide a saturation capable of threatening contamination of potable groundwater supplies in the vicinity. Public sewer would undoubtedly avert potential health hazards to the local residents.



ZODIAK, L.I.D. NO 85

- L.I.D. Boundary
- Existing Sewer
- Proposed Sewer

8

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: General Manager

Type of Application: XX Initial Revised

Type of Project Water XX Sewerage Solid Waste

Project Descriptive Title: Windemere Sanitary Sewer

S82(8)3522

Number of Lots 38 and Persons 133 benefitting from this project.

Estimated Construction Period: April 1982 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ ~~57,310~~ 28,655

Source of Applicant's Funding for Project: Public Works Special State Legislative
Appropriation

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager April 27, 1982
Typed Name Title Date

Robert E. Smith
Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	<i>\$86.72/LF</i>	
1. Administrative Expenses ¹		2% 2,838	1.
2. Legal Expenses ¹		0.5% 721	2.
3. Engineering Design Fees ²	D or E	12% 17,327	3.
4. Project Inspection and Surveying ²	D or E	11% 15,883	4.
5. Construction ²	D or F	144,392	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 14,439	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	195,600	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		<i>106,945</i> 138,290	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC	29.3% x 50%	<i>57,310</i>	14.
		<i>*25,655</i>	
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		1,884	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		11,736	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs (and other ineligible costs)		9,780	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	23,400	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	219,000	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

NARRATIVE

Windemere Sanitary Sewer

City Grid: 1829
Sewer Grid: 4635
Zoning: R-1 (One Family Residential District)

Public Works plans to improve Windemere Subdivision roads during the late summer 1982 construction season. Prior to the street improvement, i.e. paving, AWWU proposes to replace the 8" A.C. pipe on Cambridge Way to Lancaster Drive, and Lancaster Drive to Arctic Boulevard.

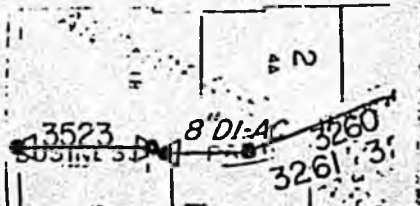
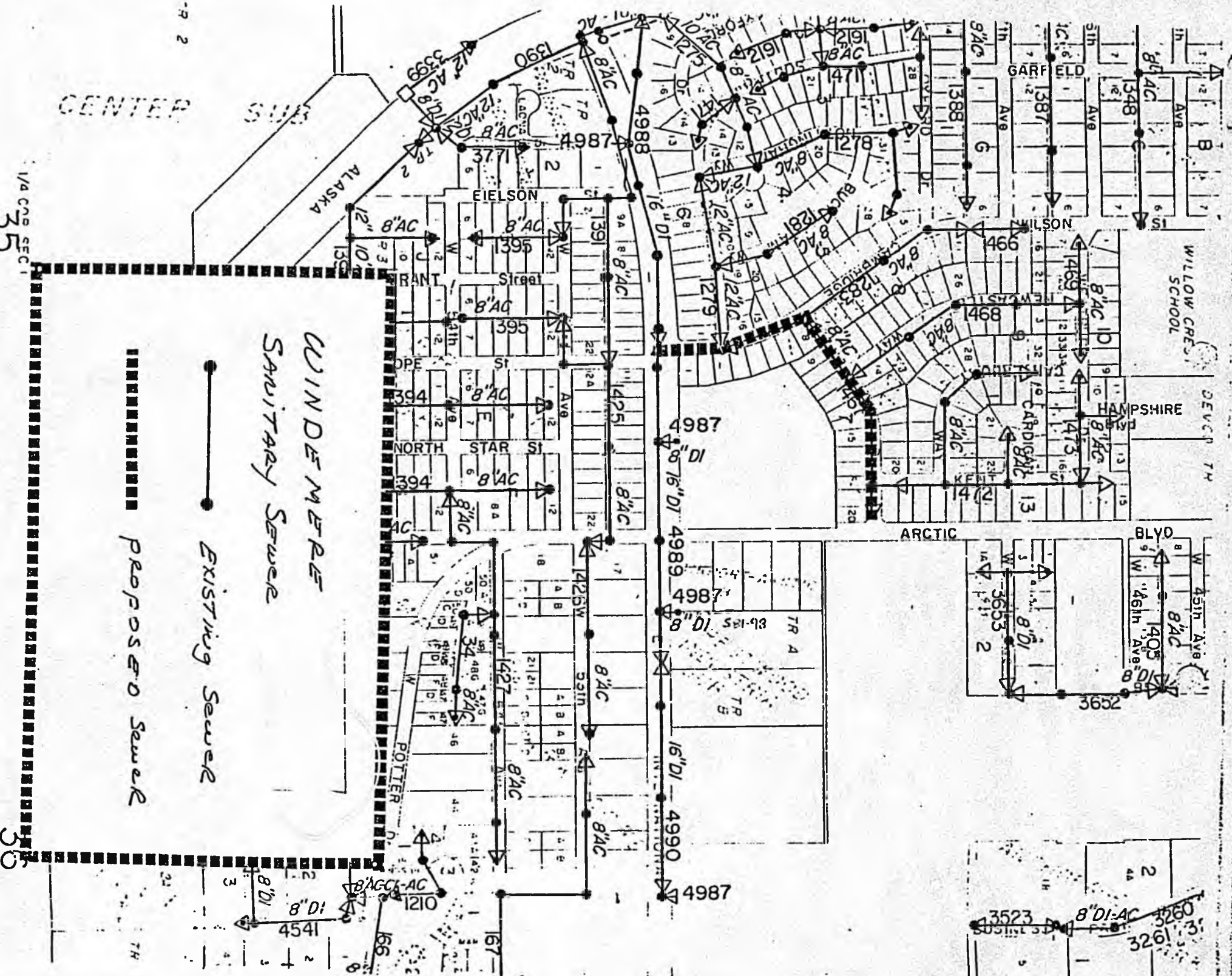
Windemere Subdivision has a costly history of pipe failure and residence damage. The deteriorating A.C. pipe, coupled with shallow bury conditions and adverse grades is rapidly becoming a health hazard to the 38 residences dependent on this line. To correct the deficiencies, AWWU proposes to remove the existing line, replacing 1665 L.F. of A.C. with ductile iron pipe, providing improved gravity flow service and sufficient bury according to current design practices and consumer requirements.

CENTER SUB

1/4 COR SEC 1
35

WINDERMERE
 Sanitary Sewer
 EXISTING Sewer
 PROPOSED Sewer

35



9

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage
3000 Arctic Boulevard
 Applicant Mailing Address: Anchorage, Alaska 99504
 Application Prepared by: Robert E. Smith
 Title: General Manager

Type of Application: XX Initial Revised
 Type of Project Water XX Sewerage Solid Waste
 Project Descriptive Title: West 44th Sewer Extension
S82(9)3522

Number of Lots 9 and Persons 31 benefitting from this project.
 Estimated Construction Period: May 1982 Start June 1983 Finish
 Amount of State Grant Funds Requested from ADEC: \$ 34,550
 Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager June 16, 1982
 Typed Name Title Date
Robert E. Smith
 Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	\$ 77.93/LF	
1. Administrative Expenses ¹		1.9% 954	1.
2. Legal Expenses ¹		0.5% 255	2.
3. Engineering Design Fees ²	D or E	12% 6,125	3.
4. Project Inspection and Surveying ²	D or E	11% 5,615	4.
5. Construction ²	D or F	51,047	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 5,104	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	69,100	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		34,550	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		34,550	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		691	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		4,146	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs (& Other ineligible costs)		3,363	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	8,200	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	77,300	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g) (2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

West 44th Place

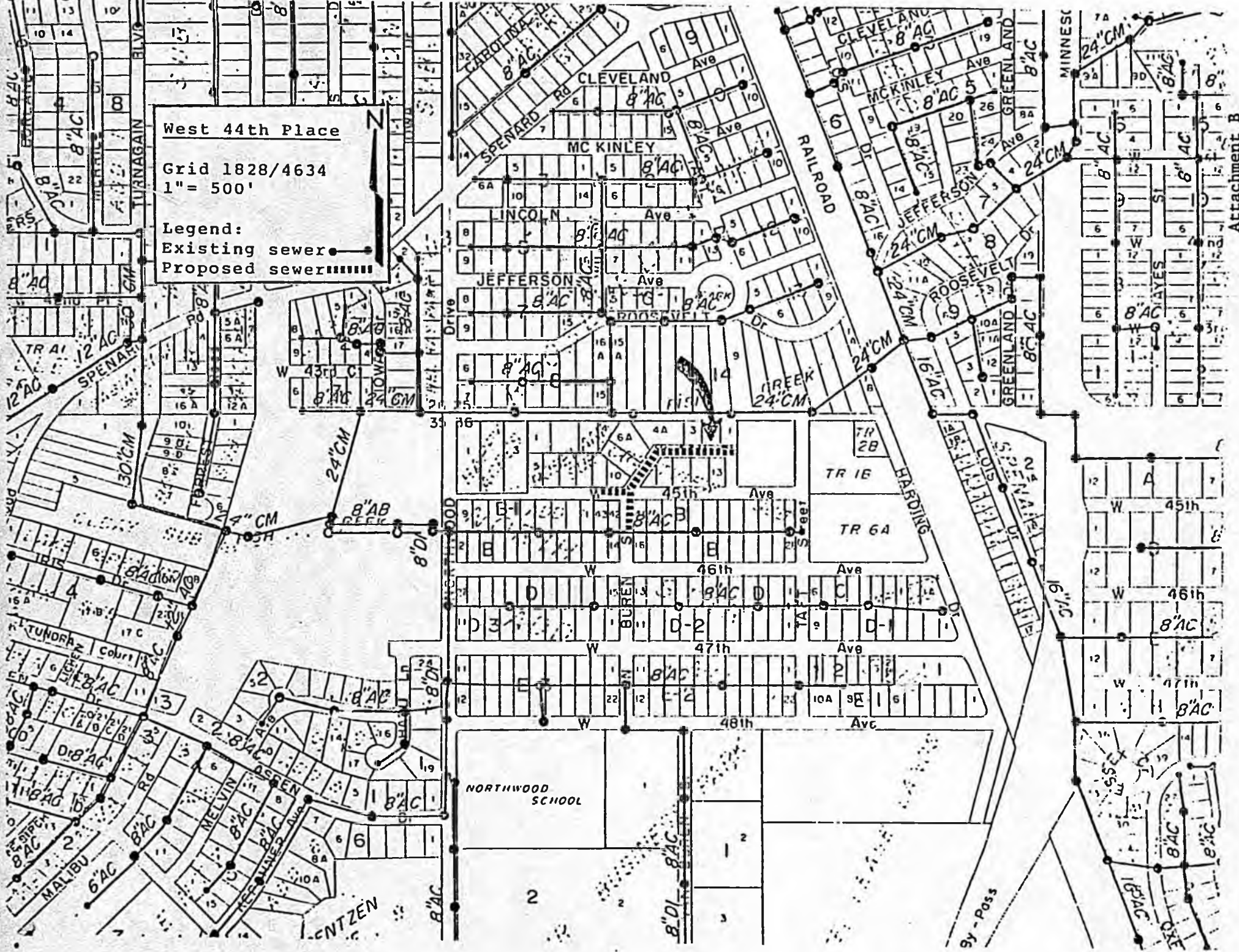
Grid 1828/4634

1" = 500'

Legend:

Existing sewer

Proposed sewer



Attachment B

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

10

APPLICATION FORM

Municipality: Municipality of Anchorage
 Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504
 Application Prepared by: Robert E. Smith
 Title: General Manager

Type of Application: XX Initial Revised
 Type of Project Water XX Sewerage Solid Waste
 Project Descriptive Title: C-3 Sewer Trunk - North of Sand Lake S82(10)3524

Number of Lots 14 and Persons 49 benefitting from this project.

Estimated Construction Period: June 1982 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: ~~\$151,650~~ 1,50,900

Source of Applicant's Funding for Project: G.O. Bonds

The applicant, through its authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager July 7, 1982
 Typed Name Title Date
Robert E. Smith
 Signature

Narrative

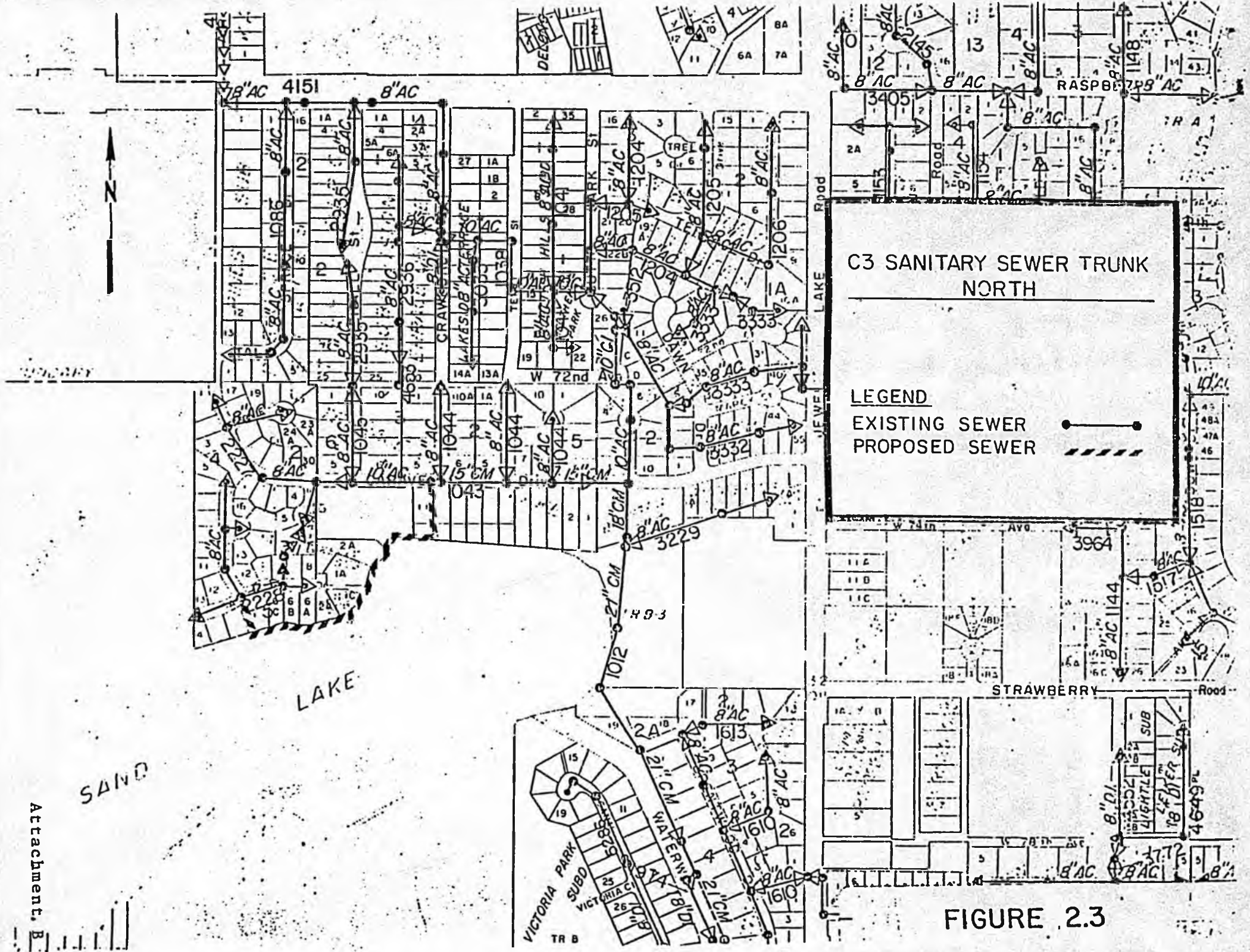
C-3 Sewer Trunk
-North of Sand Lake

City Grid: 2125

Zoning: R-1 Single Family Residential

Projected development north and westerly of Sand Lake, failure of existing on-site wastewater disposal systems due to high water tables and the expense of operating a lift station and force main prompt the design/construction of the C-3 Sanitary Sewer Trunk (North). The impetus behind this project is the potential of eliminating the need for Pump Station No. 20 by finding a gravity flow replacement system. If after exploring and exhausting possibilities for a gravity system it is found infeasible, attention will be directed toward upgrading and possibly relocating the pump station facility.

A very preliminary alignment of the trunk has already been suggested and is illustrated on the attached map. This alignment includes the installation of nearly 1425 linear feet of 16-inch diameter ductile iron pipe, the basis on which we've estimated project costs.



C3 SANITARY SEWER TRUNK NORTH

LEGEND

- EXISTING SEWER
- PROPOSED SEWER

FIGURE 2.3

Attachment B

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: Acting General Manager

Type of Application: XX Initial Revised

Type of Project XX Water Sewerage Solid Waste

Project Descriptive Title: Dowling Road, 16-inch Waterline
W81(13)3430

Commercial Property
Number of Lots n/a and Persons n/a benefitting from this project.

Estimated Construction Period: Oct. 1981 Start March 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 100,950

Source of Applicant's Funding for Project: Revenue Bonds

The applicant, through its authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith Acting General Manager 11-4-81

Typed Name Title Date

Robert E. Smith
Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	893/CF	
1. Administrative Expenses ¹		1.9% 2,895	1.
2. Legal Expenses ¹		0.5% 745	2.
3. Engineering Design Fees ²	D or E	17,888/2%	3.
4. Project Inspection and Surveying ²	D or E	16,397/1%	4.
5. Construction ²	D or F	149,068	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 14,907	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	201,900	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		100,950	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		100,950	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		1,991	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		12,114	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs		10,095	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	24,200	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	226,100	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (a)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

PROJECT NARRATIVE

DOWLING 16-INCH WATERLINE-GREENWOOD STREET TO PETERSBURG STREET

The Anchorage Water and Sewer Utilities are presently expanding their system into the southern part of its service area. The Lake Otis Road 16-inch waterline, installed to Abbott Road during the 1981 construction season, is now providing water and fire protection service to that area. In order to provide better fire protection and an interconnected system, another feedline is necessary.

The necessity of this line was foreseen when the New Seward Highway was designed. A 16-inch ductile iron waterline was installed in conjunction with the highway construction. This crossing was plugged at both ends until such time as the waterlines in the area were extended. This project will connect the waterline on Dowling Road to the west of the New Seward Highway, under the highway, and to the waterline on Dowling Road at Petersburg Street. A Pressure Reducing Valve (PRV) will also be installed to forstall any problems associated with this project crossing a pressure zone boundary.

In addition to completing the grid loop system for this portion of the southern water system, this project will make water and fire protection services available to this rapidly developing commercial/industrial area of the Anchorage Bowl.

Attachment A

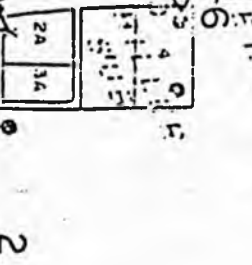
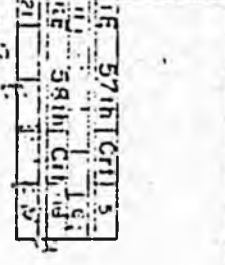
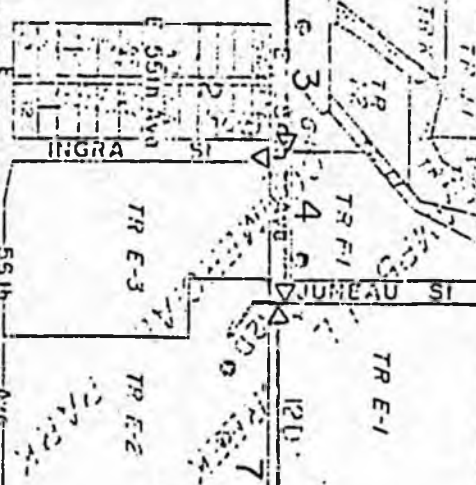
19

SEWARD

MIDRIFT SUB

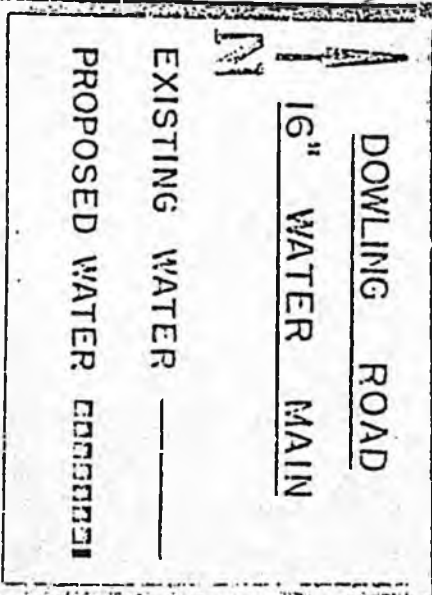
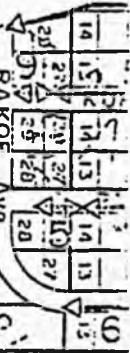
TR BYBELL TR GRADY
CAMPBELL
COMMERCIAL

INTERNATIONAL AIRPORT RD



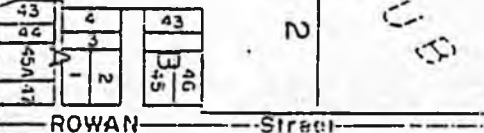
Highway

CAMPBELL



ADD TR A

ROWAN Street



PETERSBURG

LAKE TR A OTIS

DOWLING WILLIAM TR A SUB

32

33

1615

16D

16D

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage
Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504
Application Prepared by: Robert E. Smith
Title: General Manager

Type of Application: XX Initial Revised
Type of Project XX Water Sewerage Solid Waste
Project Descriptive Title: Broadmoor Estates 8" Watermain
W82(9)3430

Number of Lots 6 and Persons 21 benefitting from this project.
Estimated Construction Period: March 1982 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 14,000

Source of Applicant's Funding for Project: Public Works Special State
Legislative Appropriation

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager April 30, 1982
Typed Name Title Date
Robert E. Smith
Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS			
<u>ELIGIBLE COSTS</u>		<i>\$68⁹⁰/L5</i>			
1. Administrative Expenses ¹	Note: Attachments A B & C are required for for all projects	2%	407	1.	
2. Legal Expenses ¹		1.5%	103	2.	
3. Engineering Design Fees ²		D or E	12%	2,480	3.
4. Project Inspection and Surveying ²		D or E	11%	2,273	4.
5. Construction ²		D or F		20,670	5.
6. Equipment		G		0	6.
7. Other Costs		H		0	7.
8. Project Contingencies			10%	2,067	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL		28,000	9.	
10. Amount of Line 9 provided by Federal Grants			0	10.	
11. Amount of Line 9 provided by Other State Agencies			0	11.	
12. Amount of Line 9 provided by Applicant			14,000	12.	
13. Amount of Existing ADEC Grant			0	13.	
14. Amount of Line 9 Currently Requested from ADEC			14,000	14.	
<u>INELIGIBLE COSTS</u>					
15. Land and Easement Acquisition Costs ³			280	15.	
16. Purchase of Private Utilities			0	16.	
17. Interest and Finance Charges			1,680	17.	
18. Formation Costs of Local Improvement Districts			0	18.	
19. Comprehensive Plans and Feasibility Studies			0	19.	
20. Grant Application Preparation Costs (and other ineligible Costs)			1,340	20.	
21. SUBTOTAL (Lines 15-20)	SUBTOTAL		3,300	21.	
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL		31,300	22.	

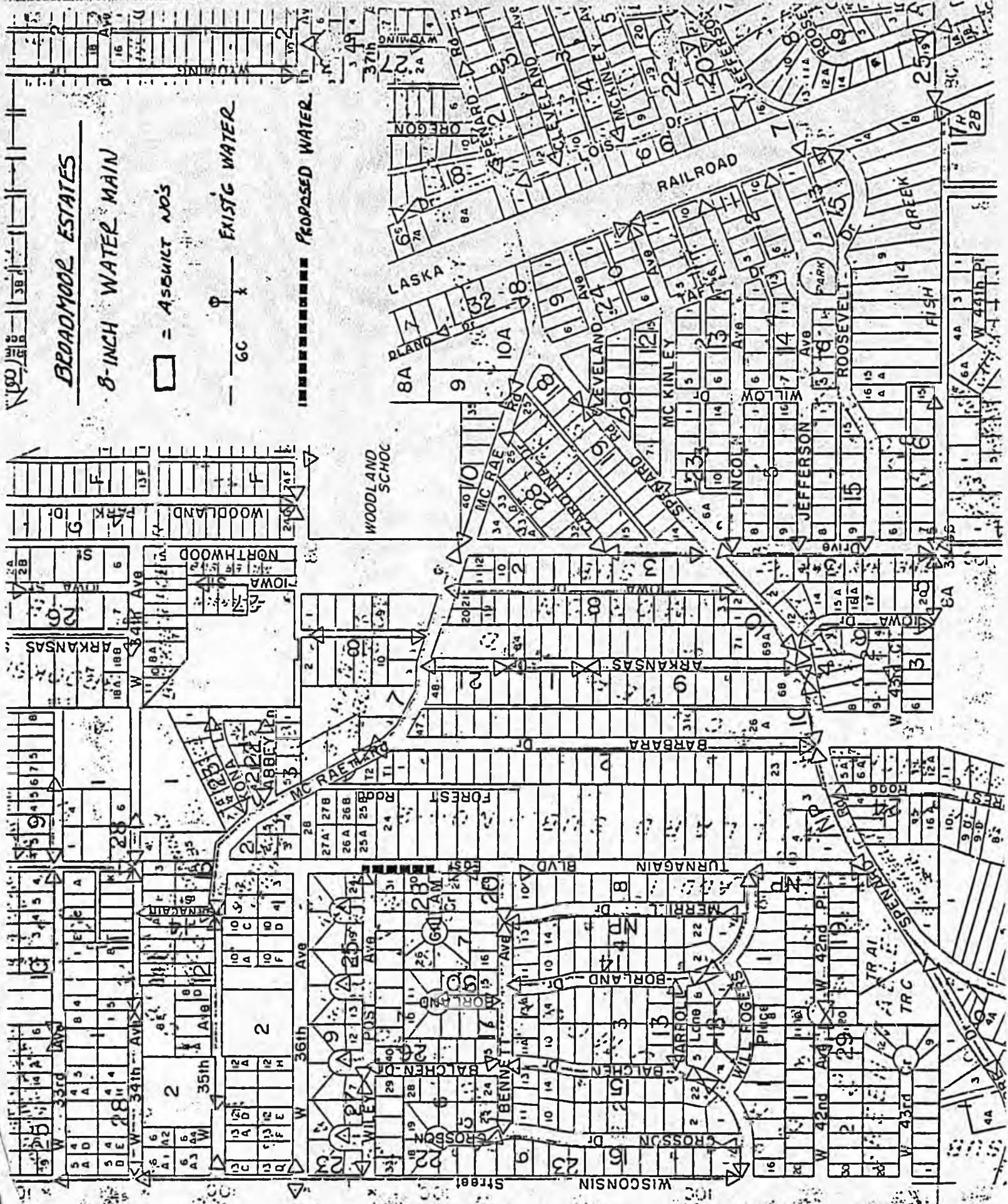
1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

NARRATIVE

BROADMOOR ESTATES 8-INCH WATERMAIN

Broadmoor Estates 8-inch watermain (AWWU) in-house design shall be constructed in conjunction with Public Works Road, Sanitary Sewer and Storm Drain Improvements. The project shall consist of approximately 300 linear feet of 8-inch ductile iron pipe with appurtenances.

The construction of this 8-inch main located within the right-of-way of Turnagain Boulevard shall complete a looped system and bolster fire flows within the area.



BROADMOOR ESTATES

8-INCH WATER MAIN

EXISTING WATER

PROPOSED WATER

□ = ASSULT NOS

— GC —

Street

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage
Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504
Application Prepared by: Robert E. Smith
Title: General Manager

Type of Application: XX Initial Revised
Type of Project XX Water Sewerage Solid Waste
Project Descriptive Title: Barbara Street Watermain Extension
W82(10)3430

Number of Lots 21 and Persons 73 benefitting from this project.
Estimated Construction Period: April 1982 Start June 1983 Finish
Amount of State Grant Funds Requested from ADEC: \$ 55,150
Source of Applicant's Funding for Project: Public Works Special State
Legislative Appropriation

The applicant, through it's authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager April 30, 1982
Typed Name Title Date
Robert E. Smith
Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS	
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects	\$58 ¹⁸ /LF	
1. Administrative Expenses ¹		2% 1,565	1.
2. Legal Expenses ¹		0.5% 407	2.
3. Engineering Design Fees ²	D or E	12% 9,774	3.
4. Project Inspection and Surveying ²	D or E	11% 8,959	4.
5. Construction ²	D or F	81,450	5.
6. Equipment	G	0	6.
7. Other Costs	H	0	7.
8. Project Contingencies		10% 8,145	8.
9. SUBTOTAL (Lines 1-8)	SUBTOTAL	110,300	9.
10. Amount of Line 9 provided by Federal Grants		0	10.
11. Amount of Line 9 provided by Other State Agencies		0	11.
12. Amount of Line 9 provided by Applicant		55,150	12.
13. Amount of Existing ADEC Grant		0	13.
14. Amount of Line 9 Currently Requested from ADEC		55,150	14.
<u>INELIGIBLE COSTS</u>			
15. Land and Easement Acquisition Costs ³		1,103	15.
16. Purchase of Private Utilities		0	16.
17. Interest and Finance Charges		6,618	17.
18. Formation Costs of Local Improvement Districts		0	18.
19. Comprehensive Plans and Feasibility Studies		0	19.
20. Grant Application Preparation Costs (and other ineligible costs)		5,479	20.
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	13,200	21.
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	123,500	22.

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
3. The cost of land when used as an integral part of a treatment process, such as spray irrigation, and solid waste landfill sites may be considered grant eligible. These costs should appear under line 7 Other Costs (above) and must be supported by Attachment H.

NARRATIVE

BARBARA STREET WATERMAIN EXTENSION

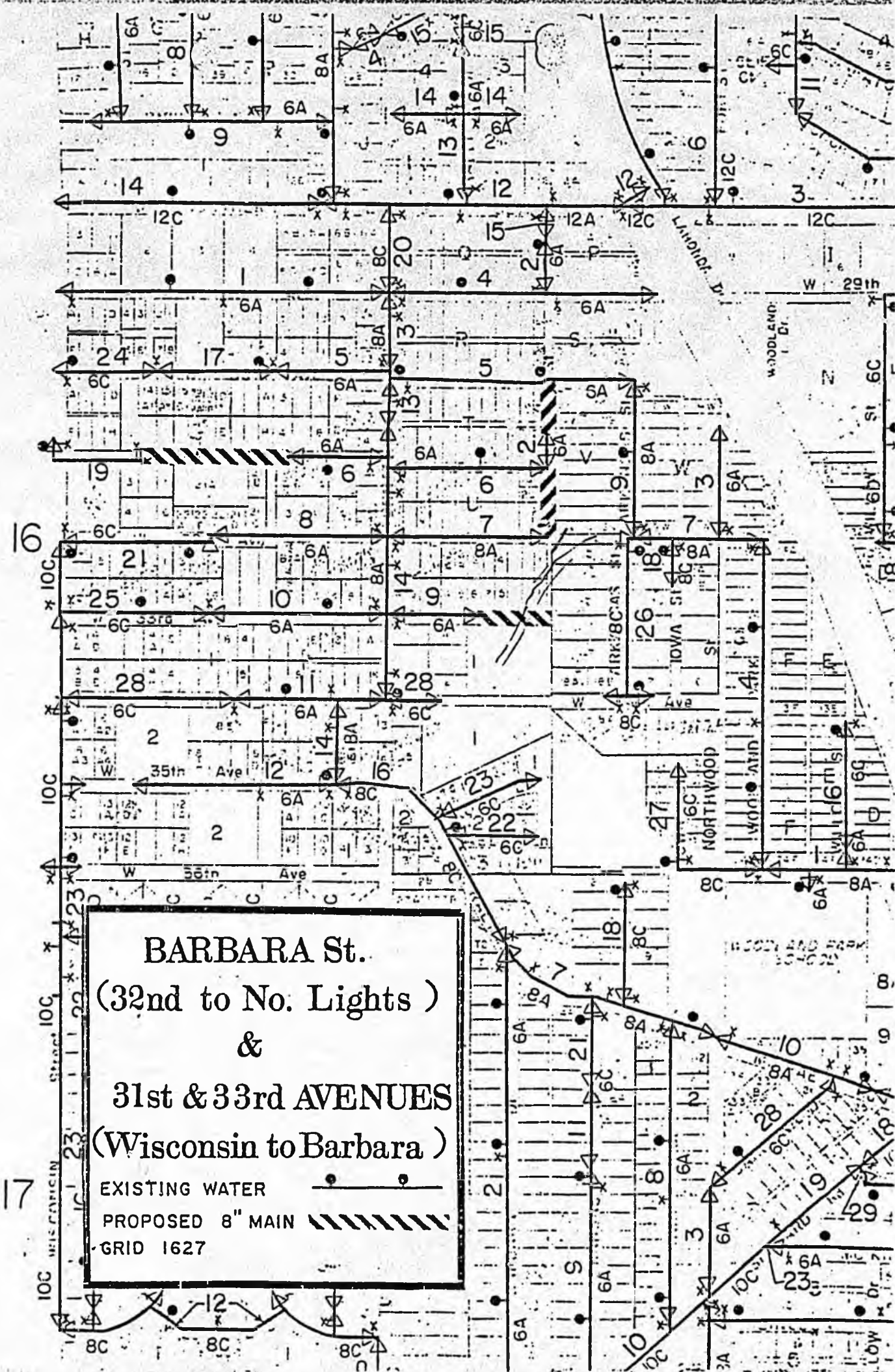
City Grid: 1627
Zoning: R-1, R-2 and R-2D


Public Works plans to improve streets in the Spenard Area with construction work scheduled to begin in late summer 1982. Prior to the street improvement, i.e. paving, AWWU proposes extending watermains into unserved areas affected by the street project. The area to be served with water includes 21 lots in low density urban and suburban multi-family residential districts.

The watermain extension includes design/construction of approximately 1400 linear feet of 8-inch Ductile Iron Pipe.

- 1) 600 L.F. of 8-inch D.I.P. in West 31st Avenue between Wisconsin Street and Barbara Street;
- 2) 300 L.F. of 8-inch D.I.P. in West 33rd Avenue between Wisconsin Street and Barbara Street; and
- 3) 500 L.F. of 8-inch D.I.P. in Barbara Street between 32nd Avenue and Northern Lights Boulevard.

The extensions will provide domestic service, loop existing water systems and offer improved fire protection capabilities.



BARBARA St.
(32nd to No. Lights)
&
31st & 33rd AVENUES
(Wisconsin to Barbara)
EXISTING WATER
PROPOSED 8" MAIN 
GRID 1627

16

17

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

APPLICATION FORM

Municipality: Municipality of Anchorage

Applicant Mailing Address: 3000 Arctic Boulevard
Anchorage, Alaska 99504

Application Prepared by: Robert E. Smith

Title: General Manager

Type of Application: XX Initial Revised

Type of Project XX Water Sewerage Solid Waste

Project Descriptive Title: 10/11 Alley "N" to "P" Streets Watermain

W82(11)3430

Number of Lots 26 and Persons 91 benefitting from this project.

Estimated Construction Period: April 1982 Start June 1983 Finish

Amount of State Grant Funds Requested from ADEC: \$ 50,150

Source of Applicant's Funding for Project: Revenue Bonds

The applicant, through its authorized representative, certifies that to the best of its knowledge and belief that the data contained in this application is true and correct and that all titles and easements necessary to provide clear title or authority to construct and maintain the proposed project shall be obtained. Failure to comply with this certification will be cause for the Department to withhold a grant award or withdraw a grant offer that may have been extended.

Robert E. Smith General Manager April 30, 1982
Typed Name Title Date

Robert E. Smith
Signature

APPLICATION FOR STATE CONSTRUCTION GRANT ASSISTANCE

COST SUMMARY

COST CLASSIFICATION	ATTACHMENT REQUIRED	TOTAL ESTIMATED PROJECT COSTS		
<u>ELIGIBLE COSTS</u>	Note: Attachments A B & C are required for for all projects D or E D or E D or F G H	\$105.89/LF		
1. Administrative Expenses ¹		2%	1,394	1.
2. Legal Expenses ¹		0.5%	370	2.
3. Engineering Design Fees ²		12%	8,890	3.
4. Project Inspection and Surveying ²		11%	8,149	4.
5. Construction ²			74,089	5.
6. Equipment			0	6.
7. Other Costs			0	7.
8. Project Contingencies			7,408	8.
9. SUBTOTAL (Lines 1-8)		SUBTOTAL	100,300	9.
10. Amount of Line 9 provided by Federal Grants			0	10.
11. Amount of Line 9 provided by Other State Agencies			0	11.
12. Amount of Line 9 provided by Applicant			50,150	12.
13. Amount of Existing ADEC Grant			0	13.
14. Amount of Line 9 Currently Requested from ADEC		50,150	14.	
<u>INELIGIBLE COSTS</u>				
15. Land and Easement Acquisition Costs ³		1,003	15.	
16. Purchase of Private Utilities		0	16.	
17. Interest and Finance Charges		6,018	17.	
18. Formation Costs of Local Improvement Districts		0	18.	
19. Comprehensive Plans and Feasibility Studies		0	19.	
20. Grant Application Preparation Costs (and other ineligible costs)		4,979	20.	
21. SUBTOTAL (Lines 15-20)	SUBTOTAL	12,000	21.	
22. TOTAL PROJECT COSTS (Lines 9 plus 21)	TOTAL	112,300	22.	

1. Eligibility of these expenses is limited to costs incurred by the applicant as a direct result of the project. Salaries of existing staff working normally scheduled hours are not grant eligible.
2. With prior approval, the costs of engineering design, construction management, and actual construction performed in-house are grant eligible. Force account rates must be approved by the Department prior to the State grant offer. Force account work performed more than 120 days prior to a State grant offer is not eligible for grant funding. Requests for approval of force account rates must be supported by Attachment D. Construction Grant Regulations 18 AAC 73.010 (g)(2) establishes specific force account procedures and eligibilities.
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NARRATIVE

10/11 Alley - "N" to "P" Streets Watermain



This project consists of replacing approximately 700 linear feet of deteriorating 6-inch woodstave watermain with 8" Ductile Iron. The replacement will improve the transmission grids in the affected area by increasing the main size to meet expanding water needs and decreasing maintenance costs.

$$\left(\frac{4^2 - 3^2}{4^2}\right)(100,300)(0.50) \approx \$21,940$$



KNIK ARM

10-11 ALLEY
"N" to "P" STREET
Watermain
(WOODSTAVE REPLACEMENT)

EXISTING MAIN 
PROPOSED 8" 
GRID 1329

