### CAPITAL IMPROVEMENTS PROGRAM SUMMARY

SA #40

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(1) Department (2) Division Sewer Utility - (Anchorage Bowl Area) Enterprise Activities (3) TOTAL TO BE FUNDED (IN THOUSANDS) (5) (6) (7) (8) (9) (10) (11) **PROJECT PROJECT** REVENUE G/0 TITLE(S) 19.77 **19**\_<u>78</u> 19.79 19.80 COST (4) 1981 1982 BONDS FEDERAL STATE BONDS OTHER \* Interceptors 7400.0 5550.0 \*\*1850.0 3300.0 800.0 600.0 1600.0 450.0 650.0 Trunks 11350.0 8513.0 \*\*2837.0 950.0 2250.0 1275.0 1700.0 3800.0 1375.0 Laterals 6600.0 4950.0 \*\*1650.0 1600.0 1000.0 1000.0 1000.0 1000.0 1000.0 Repair & Rehabil. 9936.0 9936.0i 436.0 1225.0 1375.0 3000.0 3400.0 500.0 New Equipment 958.0 958.0 109.C 278.0 | 113.0 | 181.0 160.0 117.0 Sewer System Eval. 300.0 300.0 300.0 Land for Expansion 400.0 400.0 400.0 TOTAL (12) 36944.0 30607.0 7264.0 5388.0 4359.0 7481.0 8810.0 3642.0 6337.0 \* OTHER SOURCE OF FUNDS (13)**FUNDING** (14)|5801.5 |4375.5 |3640.0 |6406.0 |7497.5 |2886.5 General Obligation Bonds Revenue Bonds \*\* State Grant Funds are received only Federal after local funds have been spent. 1462.5 1012.5 | 719.0 1075.0 1312.5 | State 755.5 Other 7264.0 5388.0 4359.0 7481.0 8810.0 B642.0 TOTAL

(1) Department and Division: Enterprise Activities (Sewer Utility) (2) Project Title: Interceptors -(Anchorage Bowl Area) New Estimated Requirements in Thousands Appropriation 19\_\_\_\_ Estimated Approp. 19 78 19\_79 19\_\_80 19\_81 19\_82 Total Cost Prior Years Estimated Cost (3) (4) (5) (6) (7) (10)(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 6.492.0 2,895.0 702.0 526.0 1,404.0 395.0 570.0 908.0 [15] Overhead 405.0 98.0 74.0 196.0 80.0 55.0 TOTAL 7.400-0 3,300.0 0.008 600.0 1,600.0 450.0 650.0 (16) Source of Funds Bands - G/O 5,550.Q 2,475.0 600.0 450.0 1,200.0 337.5 487.5 Grants - State\*\* (See Note On 1,850.0 825.0 200.0 150.0 400.0 112.5 162.5 · Operational Summary Sheet) 7,400.0 3,300.0 TOTAL 800.0 600.0 1,600.0 450.0 650.0 (17) Gross Floor Area Sq. Ft. (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$ N/A
(19) Project Status Preliminary Design (22) Estimated Start Date January 1, 1977 (21) Percent of Building Cost N/A (23) Estimated Completion Date December 31, 1977 (24) Project Description and Justification (Continue on Additional Sheets, Same Size) 1977-This item includes construction of necessary interceptors 1980-Southeast Interceptor for the Anchorage Bowl Area. O'Malley Road to E-4 \$1,404.0 1--78" West Interceptor \$2,193.0 1981-Southeast Interceptor -E-4 to E-6 \$ 395.0 2--36" Southeast Interceptor/ to E-2 Trunk 702.0 1982-Southeast Interceptor -\$2,895.0 E-6 to 1/2 mile south of Huffman Road \$ 570.0 1978-Southeast Interceptor —E-2 to E-3 \$702.0 1979-Southeast Interceptor - E-3 to O'Malley Road \$526.0

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(1) Department and Division: Enterprise Acti	vities (Sew	er Utility)	(2) Project	Title: Tr	ınks – (Anch	orage Bowl	Area)	de per concerne de constitue proper de la constitue proper de la constitue proper de la constitue proper de la
And the second of the second o	To a di manada d		New		Estimated	Requirements in	Thousands	en single Constitution of the constitution of
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19(5)	19.78 (6)	79 171	10 80	10 81	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead TOTAL	9,955.0 1,395.0 11.350.0	and Carlo Carlo Carlo Annie in reducible con Annie and Annie and Annie and Annie and Annie and Annie and Annie Annie and Annie	833.0 117.0 950.0	1,974.0 276.0 2,250.0	1,118 .0 157 .0 1,275 .0	1,491.0 209.0 1.700.0	3,333.0 467.0 3,800.0	1,206.0 169.0 1,375.0
(16) Source of Funds  Bonds — G/O Grants — State **(See Note on Operational Summary Sheet)	8,513.0		712.5 237.5	1,687.5 562.5	956 .0 319 .0	1,275.0 425.0	2,850.0 950.0	1,032.0 343.0
TOTAL	11,350.0	25400 +74000000000000000000000000000000000	950.0	2,250.0	1,275.0	1,7000	3,800.0	1,375.0
(17) Gross Floor Area N/A S (18) Building Cost Per Sq. Ft. \$ N/A (19) Project Status Preliminary Engineee	q. Ft.	(21)	Architectural and Percent of Build Estimated Start Estimated Comp	ting Cost <u>N/</u> Date Januar	'A	1977		Company of the Compan
(24) Project Description and Justification (Continue of 1977-This item includes construction of			d larger) i	n the Anche	rage Bowl A	\rea.	lage de communicación en la confessión de Consectión de Consectión de Consectión de Consectión de Consectión d	
1. 12" and 18" A-2. 16" and 24" "C" 3. 14" E-2 Trunk 4. 10" and 12" D-3	" Street Tru	) Kulis unk / Extend	d to "C" St	reet .	\$307.0 \$241.0 \$109.0 \$176.0			ensulmingation-enforce variability and Library Library
					\$833.0			e de la companya de l
*Refer to follo	owing page f	for project:	s after 197	7			·	COODMACTIC

# \* Trunk Projects After 1977

1978	Trunk E-3	
-2.0		\$505.0
	Trunk E-1-1 (E-1-1-1 to E-1-1-2	987.0
	"C" Street Trunk - Eureka Street	241.0
	Trunk C-3	241.0
		\$1,974.0
		7
1979	Trunk E-1-1-2	198.0
	"C" Street Trunk to Old Seward Highway	307.0
	Trunk C-5-2	
	· · · · · · · · · · · · · · · · · · ·	$\frac{613.0}{110.0}$
		\$1,118.0
1980	Trunk E-4	_
2700		219.0
	Trunk E-1 (Lake Otis to E-1-2)	1,184.0
	Trunk E-1-2	88.0
		\$1,491.0
1001		
1981	Trunk E-5	877.0
	Trunk C-6	1,579.0
	Trunk C-7	877.0
		\$3,333.0
		42,233.0
1982	Trunk E-6	176.0
	Trunk E-1 (E-1-2 to E-1-3)	176.0
	Trunk E-1-3	482.0
	Trong 1-1-3	<u>548.0</u>
		\$1,206.0

SA #40

			New		Estimated Requirements In Thousands					
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19_81	19 <u>82</u> (10)		
(11) Equipment (Moveable) (12) Land	,					And and Annual Majorek Ori strain, 1994 and an annual school and an annual school and an annual school and annual school and an annual school and an annual school and an annual school and annual school and an annual school and annual school and an annual school	, •			
(13) Buildings (14) Other Improvements (15) Overhead	5,789.0 3 811.0 1		1,404.0	877.0 123.0	877.0 123.0	877.0 123.0 1,000.0	877.0 123.0 1,000.0	877.0 123.0 1,000.0		
TOTAL [16] Source of Funds	6,600.0		1,600.0	1,000.0	1,000.0	11,000.0	1,000,0	1,0000		
Bonds - G/O Grants - State**(See Note on Operational Summary Sheet)	4,950.0 1,650.0		1,200.0	750.0 250.0	750.0 250.0	750.0 250.0	750.0 250.0	750 0 250 0		
TOTAL	6,600.0		1,600.0	1,000.0	1,000.0	1,000.0	1,0000	1,000.0		
(17) Gross Floor Area N/A (18) Building Cost Per Sg. Ft. \$ N/A (19) Project Status Final Design	Sq. Ft.	{21 /2*	Architectural a     Percent of Buil     Estimated Star     Estimated Con	ding Cost 14/ Lata Janua	ry 1, 1977	1977				
(24) Project Description and Justification (Continue 977.— This item includes construction			s in <b>are</b> as	1978-An	ticinated I	ID's\$877	' ()			
where property owners have peti 1. Stein LID 83 2. Lloyd LID 80 143. Creekside LID 144. Westgate Park 5. "C" Street Ind 146. Pleasant Valle 147. McGill LID 81 147. McGill LID 81	tioned for so 77 LID 60 Justrial LID by LID 76	ervice.	\$ 94.0 99.0 120.0 410.0 224.0 75025.7.0 200.0	1979-An 1980-An	ticipated I ticipated I ticipated I	ID's\$877 ID's\$877	7.0	•		

(1) Department and Division: Enterprise Activities ( Sewer Utility ) (2) Project Title: Repair and Rehabilitation-(Anchorage Bowl Area New Estimated Requirements in Thousands Appropriation Estimated Approp. 19\_\_78\_ 19.79 19 80 **Total Cost** Prior Years 19.77 19.82 19\_81 **Estimated Cost** (3) (4) (5) (7) (8) (9) (10) (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 8,716.0 3820 1,0750 1,206.0 2,632.0 2,982.0 439.0 1,220.0 (15) Overhead 54.0 1500 169.0 368.0 418:0 61.0 TOTAL 9.936.0 436.0 1,2250 1.375.0 3,000.0 3,400.0 500.0 (16) Source of Funds Bonds - G/O 9,936.0 436.0 1,2250 1,375.0 3,000.0 3,400.0 500.0 Grants — • Operational 9,936 .0 1,225.0 1,375.0 436.0 3,000.0 TOTAL 3,400.0 500.0 (17) Gross Flour Area N/A Sq. Ft.
(18) Building Cost Per Sq. Ft. \$ N/A
(19) Project Status Preliminary Engineering N/A (20) Architectural and Engineering Fees: (21) Percent of Building Cost N/A %
(22) Estimated Start Date January 1, 1977
(23) Estimated Completion Date December 31, 1977 (24) Project Description and Justification (Continue on Additional Sheets, Same Size) 1977- This item includes construction of necessary repair and rehabilitation of existing sewer lines in the Anchorage Bowl Area.

1.	Reline 12" line	on south side	e of Campbell Lake		\$176.0
2.	New outfall for	Campbell Lake	e Pump Station	•	26.0
3.	Resize Mountain	View Meter	•		4.0
4.	Emergencies				176.0
			•		\$382.0

\*\*Refer to the following page for projects after 1977

\$ 439.0

#### \*\* Repair and Rehabilitation Project After 1977 Relay Rovenna St. line north 1978 154.0 Knik Interceptor Replacement-9th Ave. North 482.0 Rehabilitation of Fish Creek Trunk 263.0 176.0 Emergencies \$1,075.0 Tie Fish Creek Trunk into 84" Interceptor 1979 329.0 Knik Interceptor Replacement-9th Ave. South 438.0 Rehabilitation of Fish Creek Trunk 263.0 Emergencies 176.0 \$1,206.0 1980 Reline Campbell Creek Trunk - Lift Station to Dimond Boulevard 2,193.0 Rehabilitation of Fish Creek Trunk 263.0 176.0 Emergencies \$2,632.0 1981 Reline Campbell Creek Trunk-Dimond to N.E. Interceptor 2,543.0 Rehabilitation of Fish Creek Trunk 263.0 Emergencies 176.0 \$2,982.0 1982 Rehabilitation of Fish Creek Trunk 263.0 Emergencies 176.0

	Estimated		New		Estimated	Requirements in	Thousands	
Estimated Cost	Total Cost (3)	Approp. Prior Years (4)	Appropriation 19_77 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> . (8)	19_81	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements	841.0		244.0	99.0	96.0	159.0	140.0	103.0
(15) Overhead TOTAL	117 · 0 958 · 0		34.0 278.0	14.0 113.0	13.0	22.0 181.0	20.0 160.0	14.0 117.0
(16) Source of Funds  Bonds — G/Q  Grants —  Operational	958.0		278.0	113.0	109.0	181.0	160.0	117.0
TOTAL	958.0		278.0	113.0	109.0	181.0	160.0	117.
(17) Gross Floor Area N/A (18) Building Cost Per Sq. Ft. \$ N/A (19) Project Status No	Sq. Ft.	(21 (22	) Architectural ar ) Percent of Build ) Estimated Start ) Estimated Comp	ding Cost <u>N/A</u> Date <u>In Pr</u>	% ogress			
(24) Project Description and Justification (1977—Replacement and purcha upgrade existing fleet	se of new equipme		ing equipme	nt is worn	out or new	equipment	is needed	to
Treat Engin	enance ment Plant eering mer Service	175.0 30.0 -0- 39.0	(Refer	to follow	ing page fo	r breakdow	n)	

New Equipment	- 1977
Maintenance	:
<ol> <li>Replace 1968 Case backhoe #0719 with Droit 40 on rubber</li> <li>New 10-12 yard dump truck</li> <li>Replace pickup trucks #2226, #2279, #2240, 2312 with ½ Ton pickup trucks</li> <li>Replace truck #4002 with a 42,000 GVW Truck with van for boiler.</li> <li>Rebuild Cleaver Brook boiler</li> <li>Replace Sedans #1762, #1811 with ½ Ton compact pickups with canopies</li> </ol>	\$84.0 40.0 17.0 18.0 6.0 10.0 \$175.0
Treatment Plant  1. Replace 3/4 Ton Pickup #2405 with a compact pickup with canopy 2. Replace ½ Ton pickup #2221 with a compact pickup 3. Replace Sedan (L-4) with similar vehicle 4. New 1½ Ton flatbed	\$5.0 5.0 5.0 15.0 \$30.0
Customer Service	
<ol> <li>Replace 2 pickups with a compact pickup and a van, both with radios</li> </ol>	\$13.0
2. Purchase 1 small jack hammer on trailer for dye test crew	1.0
3. Purchase 5 compact trucks with radios for on property inspection crew.	25,0- 39,0
Total	\$244.0

(1) Department and Division: Enterprise Activities ( Sewer Utility ) (2) Project Title: Sewer System Evaluation -(Anchorage Bowl Area New Estimated Requirements in Thousands Estimated Approp. Appropriation Total Cost 19\_77\_ 19 78 Prior Years 19 79 19\_\_80\_ 19\_82 Estimated Cost 19\_81\_ (3) (4) (5) (6) (7) (8) (10) (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 263.0 263.0 (15) Overhead 37.0 37 .0 TOTAL 300.0 300.0 (16) Source of Funds G/O 300.0 Bonds -300.0 Grants — Operational 300.0 TOTAL 300.0 (17) Gross Floor Area N/A Sq. Ft. N/A (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$ (21) Percent of Building Cost N/A (19) Project Status Sewer System Survey Complete (22) Estimated Start Date January 1, 1977 (23) Estimated Completion Date December 31, 1977

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

This study (an examination of the sewerage system to determine where excess infiltration is occuring) is a requirement of our discharge permit. Also included in this project is a study of the downtown area to determine future sizing requirements.

(1) Department and Division: Enterprise Ac			New	t title. Land	Acquisition Estimated	Requirements in	<del></del>	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 <u>77</u> (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	1981 (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead	351 · 0 49 · 0		351 .0 49 .0					
TOTAL	400.0		400.0					
(16) Source of Funds  Bonds — G/O  Grants — • Operational  TOTAL	400.0		400.0 400.0					
(17) Gross Floor Aroa <u>N/A</u> (18) Building Cost Per Sq. Ft. \$ <u>N/A</u> (19) Project Status <u>Current</u>	Sq. Ft.	(21 (22	) Architectural a ) Percent of Buil ) Estimated Start ) Estimated Com	ding Cost <u>N/A</u> t Date <u>Janu</u> :		1977		
(24) Project Description and Justification (Continuation This project is to purchase at 3000 Arctic Boulevard.			of the Wate	er & Sewer 1	Utility Fac	ilities loc	cated	

## CAPITAL IMPROVEMENTS PROGRAM SUMMARY

245 SA #50

(1) Department Enterprise Activities (2) Division Sewer Utility - (Eagle River Area) (3) TOTAL TO BE FUNDED (IN THOUSANDS) (5) (7) (6) (10) (11) **PROJECT PROJECT** G/0 REVENUE 19\_79 19\_80 TITLE(S) 19\_77 19 78 19\_81 COST (4) 19 82 BONDS FEDERAL STATE BONDS OTHER \* Sewage Treatment Facility Expansion 2000.0 250.0 1500.0 \* 250.d 2000.0 Trunks 1975.0 1481.0 \*\*494.d 775.0 1200.0 Laterals 2080.3 1560.2 **\***\*520.1 680.3 400.0 400.0 200.0 200.0 200.0 TOTAL (12) 6055.3 3291.2 1500.0 1264.1 3455.3 400.0 1400.0 400.0 200.0 200.0 \* OTHER SOURCE OF FUNDS (13) FUNDING (14) General Obligation Bonds 1341.2 300.0 1050.0 300.0 150.0 150.0 Revenue Bonds Federal 1500.0 State 614.1 100.0 100.0 | 350.0 50.0 50.0 Other TOTAL B455.3 | 400.0 | 400.0 | 1400.0 | 200.0 | 200.0

SA #50 (Eagle River Area)

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(2) Project Title: Sewage Treatment Facility Expansion (1) Department and Division: Enterprise Activities (Sewer Utility) Estimated Requirements in Thousands New Appropriation 19\_77\_\_ Approp. Estimated 19\_82\_ 19\_80\_\_\_ 19\_81\_\_ 19\_78\_ 19 79 Prior Years **Total Cost** (10) (9) (8) (6) (7) **Estimated Cost** (4) (3) (11) Equipment (Moveable) (12) Land (13) Buildings 1,754.0 1,754.0 (14) Other Improvements 246.0 246 .0 (15) Overhead 2.0000TOTAL 2.000.0 (16) Source of Funds 250.0 G/0 250.0 Bonds -1,750.0 1,7500 Grants - State\*\* & Federal \*\* (See Note on Summary Sheet)

(17) Gross Floor Area N/A Sq. Ft. (18) Building Cost Per Sq. Ft. \$ N/A (19) Project Status Preliminary Engineering	(20) Architectural and Engineering Fees: 9% (21) Percent of Building Cost N/A % (22) Estimated Start Date January 1, 1977
(19) Project Status Fiering Linguisting	(23) Estimated Completion Date December 31, 1977

2,000.0

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

TOTAL

This includes expanding the existing treatment facility to provide for future growth.

2,000.0

1. Treatment Facility Expansion \$1,754.0

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(1) Department and Division: Enterprise Activities ( Sewer Utility ) (2) Project Title: Trunks - (Eagle River Area) New Estimated Requirements in Thousands Estimated Approp. Appropriation 1978 Total Cost Prior Years 19\_77 19 79 **Estimated Cost** 19 80 19.81 19\_82 (3) (4) (5) (6) (7) (8) (9)(10) (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 1,733.0 680.0 -1)--0-1,053.0 -0-(15) Overhead -0-242.0 1,975.0 95.0 147.0 TOTAL 775 .0 1,200 .0 (16) Source of Funds G/0 Bonds -1,481.0 581 .0 900 .0 State \*\* (See Note on Grants -494.0 194 .0 300 .0 · Operational Summary Sheet) TOTAL 1,975.0 775.0 1,200.0 N/A (17) Gross Flour Area Sq. Ft. (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$ N/A

(19) Project Status Preliminary Engineering (21) Percent of Building Cost N/A (22) Estimated Start Date January 1, 1977 (23) Estimated Completion Date December 31, 1977 (24) Project Description and Justification (Continue on Additional Sheets, Same Size) This item includes construction of a 24" trunk line approximately 5,900 feet in length from the interceptor south to Eagle River Road. 1. 24" Trunk Line/Interceptor - Eagle River Road 1980 1. Extend existing trunk approximately one mile along Eagle River Road 2. Extend the trunk approximately 3/4 mile north of existing line from the treatment facility - \$395.0

SA #50

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(1) Department and Division: Enterprise Activities (Sewer Utility) (2) Project Title: Laterals - (Eagle River Area) New Estimated Requirements in Thousands Estimated Approp. Appropriation **Total Cost** Prior Years 19\_\_77\_\_ 19\_78\_ 19\_79\_ 19\_80\_\_\_ 19\_81\_ 19.82 **Estimated Cost** (3) (4) (6) (7) (8) (9) (10) (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 1,824.0 597.0 351.0 351.0 175.0 175.0 175.0 (15) Overhead 256.3 83.3 49.0 49.0 25.0 25.0 25.0 TOTAL 2,080.3 680.3 400.0 400.C 200.0 200.0 200.0 (16) Source of Funds Bonds - G/O 1,560.2 510.2 300.0 300.0 150.0 150.0 150.0 Grants - State \*\* (See Note on 520.1 170.1 100.0 100.0 50.0 50.0 50.0 Operational Summary) TOTAL 2,080.3 680.3 400.0 400.0 200.0 200.0 200.0 (17) Gross Floor Area \_\_\_\_\_ N/A Sq. Ft. (20) Architectural and Engineering Fees: 9% (18) Building Cost Per Sq. Ft. \$ N/A (21) Percent of Building Cost\_ N/A % (19) Project Status Preliminary Engineering (22) Estimated Start Date January 1, 1977 (23) Estimated Completion Date December, 1977 (24) Project Description and Justification (Continue on Additional Sheets, Same Size) 1977 - This item consists of construction of 8" sewer lines to serve areas that have requested sewer service. 1. Eagle Heights LID 50-8 \$126.0 1978 - Anticipated LID's - \$350.0 2. ACE LID 50-9 136.0 1979 - Anticipated LID's - 350.0 3. Eagle River Ranchett 335.0 1980 - Anticipated LID's - 175.0 \$597.0 1981 - Anticipated LTD's - 175.0 1982 - Anticipated LID's - 175.0

### CAPITAL IMPROVEMENTS PROGRAM SUMMARY

249 SA #60 (1) Department Enterprise Activities (2) Division (Girdwood Area) Sewer Utility TOTAL TO BE FUNDED (IN THOUSANDS) (5) (7) (6) (8) (9) (10)(11)**PROJECT PROJECT** G/0 REVENUE 19\_77 19\_79 19 78 TITLE(S) 1980 COST (4) 1981 19\_82 BONDS FEDERAL STATE OTHER \* BONDS Sewage Treatment 4,400.D 186/77 200.0 200. Facility 1800.0 225.0 1350.0 225.6 1800.0 8910 D Trunks 1300.0 162-5 1300.0 2,360.0 1800.0 Laterals 2600.0 1950.0 2.5 Million in G.O. Bonds Presently Authorized but not sold. 7,651.0 490<del>0.0</del> **TOTAL (12)** 5700.0 2337.5 2325.0 1037.5 200.0 200.0 200.0 200.0 \* OTHER SOURCE OF FUNDS (13) FUNDING (14) 1.841.4 General Obligation Bonds 1737-5 150.0 150.0 150.0 150.0 \*\* State Grant Funds are received only Revenue Bonds 3,968.2 after local funds have been spent. Federal 2<del>325-0</del> 50.0 50.0 50.0 | 50.0 State Other 4900.0 TOTAL 200.0 200.0 200.0 200.0

SA #60

(Girdwood Area)

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(1) Department and Division: Enterprise Activ	ities(Sewer	Utility)	(2) Projec	t Title: Sewag	ge Treatmen	t Facility		
			New		Estimated	Requirements in	n Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19_81	19 <u>.82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 3975-0 (15) Overhead 425-0 TOTAL 4,400-7	221-0		3,975.0 425.0 4,400.0	AD 1729	enteren en e			
(16) Source of Funds  Bonds - G/O Grants - State & Federal  Operational  TOTAL	550.0 <del>225.0</del> <del>1,575.0</del> 3850.0 <del>1,400.0</del> <del>1,800.0</del>		550.0 3850.0 4,400.0		taman manara da manar			
(17) Gross Floor Area N/A (18) Building Cost Per Sq. Ft. \$ N/A (19) Project Status Phase II Engineering	Sq. Ft.	(20 (21 (22 (23	) Percent of Buil ) Estimated Star	nd Engineering Fe ding Cast N/A t Date Januar pletion Date De	y 1, 1977	1977		
(24) Project Description and Justification (Continue This item includes construction of	f a sewage	treatment f	Cacility for	the Girdwo	ood/Alyeska	Area.		рацио дунтува так чарон том кай той по дойна дойн с 225°.

SA #60

(Girdwood Area)

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(1) Department and Division: Enterprise Activities ( Sewer Utility ) (2) Project Title: Trunks New Estimated Requirements in Thousands Estimated Approp. Appropriation 19\_\_\_\_ 19\_78 Prior Years **19\_**79 **Total Cost** 19 80 **Estimated Cost** 19\_81 19\_82 (3) (4) (6) (7) (10) (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 1,140:0783 (15) Overhead 160 . 0,08 TOTAL 1.300.0891 (16) Source of Funds Bonds -162.5/11· Grants - State & Federal 1,137.5119. Operational 1,300.089 TOTAL (17) Gross Floor Area \_\_\_ Sq. Ft. (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$ N/A (21) Percent of Building Cost N/A (19) Project Status Phase II Engineering (22) Estimated Start Date January 1, 1977 (23) Estimated Completion Date December 31, 1977 (24) Project Description and Justification (Continue on Additional Sheets. Same Size)

This includes construction of a trunk system for the Girdwood/Alyeska Area.

1. Trunks



SA #60

(Girdwood Area)

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(1) Department and Division: Enterprise Activities (Sewer Utility)

(2) Project Title:

ect Title: Laterals

		A	New	Estimated Requirements in Thousands					
Estimated Cost	Estimated Total Cost (3)	d Approp. A st Prior Years (4)	Appropriation 19 <u>77</u> (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)	
(11) Equipment (Moveable) (12) Land (13) Buildings	entited Philip des and all the conversion of the	,	and the second s	Revel AB 77-229	-ministration for Activity of the Activity of		of Marie Marie Marie Anna Anna Anna Anna Anna Anna Anna Ann		
(14) Other Improvements (15) Overhead TOTAL	2,279 .0 321 .0 2,600 .0	<b>2.</b> 36	1,579 0 221 0 0.0,800 0	1/24/17	175.0 25.0 200.0	175.0 25.0 200.0	175.0 25.0 200.0	175.0 25.0 200.0	
(16) Source of Funds  Bonds - G/O  Grants - State (**See Note on  Operational Summary Sheet)	1,950.0 650.0	7	1 <del>,350 :</del> 0 450 •0	Millia Maria (Cara de Cara de	150.0 50.0	150 .0 50 .0	150 · 0 50 · 0	150 .0 50 .0	
TOTAL	2,600.0		2360-0 1 <del>,800-</del> 0		200 .0	200.0	200.0	200.0	

(17)	Gross Floor	Area	N/A	Sc	١.	F	ŧ.

1977-This item includes construction of lateral sewers for the Girdwood/Alyeska Area.

1. LID 60-1

\$1,579.0

1979-Anticipated additional development southwest of LID 60-1 — \$175.0

1980-Anticipated additional development southwest of LID 60-1 — \$175.0

1981-Anticipated additional development southeast of Community Center — \$175.0

1982-Anticipated additional development along Crow Creek Road — \$175.0

<sup>(18)</sup> Building Cost Per Sq. Ft. \$ N/A

<sup>(19)</sup> Project Status Phase II Engineering

<sup>(20)</sup> Architectural and Engineering Fees: 9%

<sup>(21)</sup> Percent of Building Cost N/A %

<sup>(22)</sup> Estimated Start Date January 1, 1977

<sup>(23)</sup> Estimated Completion Date December 31, 1977

<sup>(24)</sup> Project Description and Justification (Continue on Additional Sheets. Same Size)

### CAPITAL IMPROVEMENTS PROGRAM SUMMARY

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(1) Department Enterprise Activities (2) Division Sewer Utility - Treatment Section, Treatment Plant (3) TOTAL TO BE FUNDED (IN THOUSANDS) (5) (6) (7) (8) (9) (10)(11)**PROJECT PROJECT** REVENUE G/0 TITLE(S) **19\_**78 COST (4) 19\_77 19\_79 19\_80 19\_81 19\_82 **BONDS** BONDS FEDERAL STATE OTHER \* Laboratory 54.0 54.0 31.d 14.d 9.0 Pretreatment 319.0 239.0 \* 80.0 319.0 Collection 4366.0 3275.0 \*1.091.0 4366.0 Thickening 163.0 122.0 \* 41.0 163.0 Dewatering 517.0 388.0 \* 129.d 216.0 301.0 Sludge Incinerator 1083.0 \* 271.0 812.0 1083.0 Incinerator Repair 139.0 139.0 139.0 Scum Incinerator 570.0 428.0 \* 142.0 570.0 Heat Recovery 268.0 201.0 67.0 268.0 Building Modifications 903.0 \* 226.0 677.0 185.d 644.0 74.0 New Buildings 2497.0 1873.0 \* 624.d 2497.0 Fuel Facility 24.0 24.0 24.d Operations Equipment 362.0 362.0 345.d 17.0 Expansion Equipment 627.0 470.0 \* 157.0 627.0 Maintenance Equipment 87.0 87.0 30.0 57.0 TOTAL (12) 11,979.0 9,151.0 2828.0 1021.0 2026.0 8932.0 \* OTHER SOURCE OF FUNDS (13)FUNDING (14) General Obligation Bonds 954.0 1546.0 6782.0 Revenue Bonds \*State Grant Funds if Available Federal State 67.0 480.0 2150.0 Other

TOTAL

1021.0 2026.0

B932.0

(1) Department and Division: Sewer Utility -	Treatment	Section	(2) Project	Title: Treatm	ent Plant	Laboratory		
			New	·	Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19_77_ (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14%	39.0 8.0 7.0		27.0 4.0	2.0		8,0 1.0		
TOTAL (20) Ourse of Facility	54.0		31.0	14.0	*****************	9.0		
(16) Source of Funds  Bonds - G.O.  Grants	54.0		31.0	14.0		9.0		
TOTAL	54.0		31.0	14.0		9.0		and necessaries which is completely the second second
(17) Gross Floor Area		(21 (22	) Architectural at ) Percent of Build ) Estimated Start ) Estimated Com	ding Cost Date1977_	%			
sewerag (b) Automat obtaini increas toring cussed 1978 - Gas Chr	Absorption eavy metals e system. ic sample on and presingly strin procedures, in the Sewe omatograph, organic constal cabinet	Spectrophose in treatments of the collection, serving addingent demand and are represented and are required estituents of	refrigerat in the second refrigerat it is a second regulated also for frequent collected	nfluent and stoples for an atory agence to Municipate analyses sewage san	d effluent, torage equi- nalyses. B cies for so pal control for grease mples.	and from pment at \$ oth (a) an phisticate over sewe s and oils	vaiours sou  10,000, req  d (b) are r  d water qua  r system us  , hydrocart	rces within quired for celated to dity moni-sage as dis-

Treatment Plant Solids Processing,

Page 255

	Pasi		New		Estimated	d Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 77 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19_82
(11) Equipment (Moveable) (12) Land (13) Buildings	280.0					280.0		
(14) Other Improvements (15) Overhead @ 14% TOTAL	39.0 319.0					39.0 319.0		
(16) Source of Funds  Bonds — G.O. @ 75%  Grants — State @ 25%  Operational	239.0					239.0		
TOTAL	319.0					319.0		
(17) Gross Floor Area (18) Building Cost Per Sq. Ft. \$ (19) Project Status		(21 (22	) Percent of Buil- ) Estimated Start	ding Cost DateEngir		80 - Constr	ruction, 19	81

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - Three mechanically raked bar screens in present treatment plant headworks building, together with solids grinding, storage, and conveying equipment. This equipment package will replace existing in-flow screenings/grinding devices, and will reduce solids loadings on clarifiers and permit direct disposal to incinerators of screenings, without additional downstream processing.

Treatment Plant Solids Processing,

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(2) Project Title: Sludge Collection and Related Facilities (1) Department and Division: Sewer Utility - Treatment Section Estimated Requirements in Thousands New Approp. Appropriation Estimated 19\_82\_\_\_ 19\_78\_ 19\_79\_\_ 19\_80\_\_ 19.81 19\_\_77\_ Prior Years Total Cost (9) (10) (7) (8)**Estimated Cost** (5) (6) (3) (4) (11) Equipment (Moveable) (12) Land 3,830.0 3.830.0 (13) Buildings (14) Other Improvements 536.0 536.0 (15) Overhead @ 14% 4,366.0 TOTAL 4.366.0 (16) Source of Funds 3,275.0 3,275.0 Bonds - G.O. @ 75% 1,091.0 Grants - State @ 25% 1,091.0 Operational 4,366.0 4,366.0 TOTAL (20) Architectural and Engineering Fees: \$383 (17) Gross Floor Area \_\_\_\_\_43, 537 (21) Percent of Building Cost 10 (18) Building Cost Per Sq. Ft. \$ (22) Estimated Start Date Engineering, 1980 - Construction, 1981 (19) Project Status\_\_\_\_ (23) Estimated Completion Date Construction, 1982 (24) Project Description and Justification (Continue on Additional Sheets. Same Size) (13) Buildings - (a) Three additional primary clarifiers with scum and sludge collection devices, required to offset increasingly hydraulic and solids loadings on existing treatment plant. These units will be part of a major plant expansion required in time period indicated. (b) One additional pump building to house three new primary sludge pumps and related control and other equipment required by additional clarifiers. (c) Additional utilidor linking new clarifiers and pump building, as well as existing facilities. Utilidor would carry all piping and electrical conduits and provide all-weather access to same for operations and maintenance. (d) One additional solids grinder and grit separator/classifier unit, to be installed in existing

building, in support of existing grit removal facilities.

Treatment Plant Solids Processing, Pag

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(1) Department and Division: Sewer Utility - Treatment Section

(2) Project Title: Sludge Thickening Facilities

	Fatiana	A	New		Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19_77 (5)	19 <u>78</u> (6)	19_79_(7)	19 <u>80</u> (8)	19_81	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings	143.0		143.0					
(14) Other Improvements (15) Overhead @ 14% TOTAL	20.0		20.0	·	,			
(16) Source of Funds								
Bonds - G.O. @ 75% Grants - State @ 25% Operational	122.0 41.0		122.0 41.0					
TOTAL	163.0		163.0					

(17)	Gross	Floor	Area	1,257	Sq.	F	t.
------	-------	-------	------	-------	-----	---	----

(18) Building Cost Per Sq. Ft. \$ 129.69

(19) Project Status

(20) Architectural and Engineering Fees: \$14.0

(21) Percent of Building Cost 10 %

(22) Estimated Start Date Engineering and Construction - 1977

(23) Estimated Completion Date 1977

### (24) Project Description and Justification (Continue on Additional Sheets, Same Size)

(13) Buildings - One additional primary sludge thickening structure, with scum and sludge collection and pumping devices, and with interconnections to existing thickening and pumping facilities. This addition will provide currently required support for existing thickener which is periodically overloaded, and will allow for an anticipated continuing increase in solids loadings as the sewer system expands.

Treatment Plant Solids Processing,

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(1) Department and Division:

Sewer Utility - Treatment Section

(2) Project Title:

Solids Dewatering Facilities

			New		Estimate	l Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19_80	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land	-			<del>zankonu (sa 1,4 kinis mpany tuona (m lininis</del> missakini				
(13) Buildings (14) Other Improvements	454.0		190.0			264.0		
(15) Overhead @ 14% TOTAL '	63.0 517.0		26.0 216.0			37.0 301.0	***	
(16) Source of Funds								
Bonds - G. O. @ 75%  Grants - State @ 25%  Operational	388.0 129.0		190.0 26.0			264.0 37.0		
TOTAL	517.0		216.0			301.0		

(17) Gross Floor Area4,800 Sq.	(1/)	ross Floor	Area	4.800	Sa		F
--------------------------------	------	------------	------	-------	----	--	---

(19) Project Status

(22) Estimated Start Date Engineering and Construction - 1977

(23) Estimated Completion Date Construction - Filter, 1977 - Dry. Bed, 1980

#### (24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - 1977 - One additional vacuum filter unit, with vacuum and filtrate pumps, and chemical feed, solids conveying, and all related equipment, to support existing filter unit which presently operates under an overload condition much of the time, and which has no vitally needed backup equipment. This equipment would be installed in space provided for same in an existing building.

1980 - Add large, divided, sludge drying bed with drainage, all-weather protection, truck access, and provision for adequate ventilation. This facility would support vacuum filter system when one of those units was out of service, and would provide another means for processing sludge solids prior to incineration.

<sup>(18)</sup> Building Cost Per Sq. Ft. \$ 55.00 (1980)

<sup>(20)</sup> Architectural and Engineering Fees: \$45.0

<sup>(21)</sup> Percent of Building Cost 10 %

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(1) Department and Division: Sewer Utility - Treatment Section

Treatment Plant Solids Processing
(2) Project Title: Sludge Incineration Facilities

	F		New		Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable)								
(12) Land (13) Buildings (14) Other Improvements	950.0			950.0				-
(15) Overhead @ 14% TOTAL	133.0 1,083.0			133.0 1,083.0		AFFALL OF THOMSENANT		
(16) Source of Funds								
Bonds - G. O. @ 75%  Grants - State @ 25%	812.0 271.0			812.0 271.0				
Operational	<b></b>					A		
TOTAL	-   1,083.0			1,083.0				

<sup>(18)</sup> Building Cost Per Sq. Ft. \$\_\_\_\_\_

### (24) Project Description and Justification (Continue on Additional Sheets, Same Size)

(13) Buildings - One additional multiple hearth sludge incinerator, similar to existing unit and installed in same building, with all related indicating, recording, operating, controlling and safety equipment and provision for connection to a heat recovery system. This unit is required no later than 1979, to provide support for existing incinerator which currently operates under an overload condition much of the time; to permit an extended shutdown of present unit for major repairs and equipment replacement; and to provide capability to dispose of increasing solids volume that is relative to expansion of the community sewer system.

<sup>(19)</sup> Project Status

<sup>(21)</sup> Percent of Building Cost 10 %

<sup>(22)</sup> Estimated Start Date <u>Engineering and Construction - 1978</u>

<sup>(23)</sup> Estimated Completion Date Construction - 1979

Treatment Plant Solids Processing,

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(1) Department and Division: Sewer Utility - Treatment Section

(2) Project Title: Sludge Incinerator Repair

			New	Estimated Requirements in Thousands					
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 <u>77</u> (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)	
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14% TOTAL	122.0 17.0 139.0					122.0 17.0 139.0			
(16) Source of Funds  Bonds — G. O. @ 100%  Grants —  Operational	139.0					139.0			
TOTAL	139.0					139.0			

(17)	Gross	Floor	Area	 	Sq. Ft.

- (18) Building Cost Per Sq. Ft. \$\_\_\_\_\_
- (19) Project Status

- (20) Architectural and Engineering Fees: <u>None</u>
- (21) Percent of Building Cost \_\_\_\_\_\_ %
- (22) Estimated Start Date 1980
- (23) Estimated Completion Date 1980

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(11) Equipment - Remove all worn out refractory and insulating materials, as well as cast steel rotating members from inside incinerator. Replace same with new materials, and repair exhaust gas stack, gas scrubbing unit, and all related incinerator equipment. Existing incinerator will have been in operation 8 years at time of programmed repair. It is anticipated that unit will be very much in need of repair by that time, but such work can only be done after a second incinerator has been installed.

Treatment Plant Colida Decaration

#### CAPITAL PROJECT ESTIMATE

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(I) Department and Division: Sewer Utility -	- Treatment	Section	(2) Project	t Title: Scum	Incinerati	on Facilit:	ies	***************************************
	Estimated	Арргор.	New			l Requirements in		
Estimated Cost	Total Cost (3)	Prior Years (4)	Appropriation 19 <u>77</u> (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land			THE STATE OF THE S					(10)
(13) Buildings (14) Other Improvements	500.0			500.0			-	
(15) Overhead @ 14% TOTAL	70.0 570.0			70.0 570.0	}			
(16) Source of Funds	!							
Bonds - G. O. @ 75%  Grants - State # 25%  Operational	428.0 142.0		Walter the same of	428.0 142.0				
TOTAL	570.0			570.0				
(17) Gross Floor Area <u>1,800</u> Sc (18) Building Cost Per Sq. Ft. \$ <u>316.67</u> (19) Project Status	q. Ft.	(21) (22)	Architectural an Percent of Build Estimated Start Stimated Comp	ding Cost Date_Engine	10 % ering and (	Constructio	on - 1978	

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - Add new building to treatment plant site, designed similar to all other major structures and so located as to be suitable for intended purpose. Install incineration unit designed specifically for disposal of very volatile grease and oil portion of sewage solids, thereby reducing loading on sludge incinerator and eliminating problems related to the combustion of two materials with very different characteristics. Include with installation a large scum holding tank, positive displacement pumps, control, indicating and recording equipment, exhaust gas quality control devices and provision for connection to a heat recovery system.

Treatment Plant Solids Processing,

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Sewer Utility - Treatment Section (2) Project Title: Heat Recovery Facilities (1) Department and Division: New Estimated Requirements in Thousands Appropriation Estimated Approp. 19\_78\_\_ 19\_79\_\_\_ 19 80 19 81 19.82 19\_\_77\_\_ Prior Years Total Cost **Estimated Cost** (8) (9) (10)(5) (6) (7) (11) Equipment (Moveable) (12) Land 235.0 (13) Buildings 235.0 (14) Other Improvements (15) Overhead @ 14% 33.0 33.0 TOTAL 268.0 268.0 (16) Source of Funds Bonds - G.O. @ 75% 201.0 201.0 Grants - State @ 25% 67.0 67.0 Operational TOTAL 268.0 268.0 (17) Gross Floor Area \_\_\_\_\_Sq. Ft. (20) Architectural and Engineering Fees: \$24.0 (21) Percent of Building Cost 10 % (18) Building Cost Per Sq. Ft. \$ (22) Estimated Start Date Engineering - 1978 (19) Project Status (23) Estimated Completion Date Construction - 1979 (24) Project Description and Justification (Continue on Additional Sheets. Same Size) (13) Buildings - Add heat exchangers and all related piping, pumping, and heat utilization equipment necessary to extract and use heat from sludge and scum incineration processes. Recovered heat would be used to help meet substantial heating requirements of all treatment plant buildings, as well as to condition sludge and scum for later processing. Heat surplus to indicated needs would be discharged to plant influent flow, thereby improving settling characteristics of sewage solids. A measurable

overall increase in plant operating efficiency, and reduction in operating costs would result.

			New		Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977_ (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>.</u> 82 (10)
(11) Equipment (Moveable)								
12) Land 13) Buildings	792.0		65.0		565.0			
14) Other Improvements					_			
15) Overhead @ 14% TOTAL	111.0 903.0		9.0 74.0		79.0 644.0			
16) Source of Funds			**************************************		***************************************			
onds –	259.0	7	74.0					
Grants —					483.0			
Operational State Grant	161.0				161.0			
TOTAL	903.0		74.0		644.0			
(19) Project Status	Makashu, Arou John Assas				eering and Construction		on - 1977_	
Conr (b) Cons leve	all drainage char removal of stands ect channels to e truct large, fire al of screenings	mels in co ing water w existing bu eproof, wel room in Inc	hich result ried piping l ventilate inerator Bu	s from fre d lubricar	equent and r	necessary w mable stora	ashdown of ge room on	area. lower
(c) Add offi	adequate in any vintermediate flow ce space for oper chemicals storage	or to high rations sup	ceilinged servisor, wa	shroom/loc				
shor heav	end existing chloobuilding, for \$ you chloring contains the contains are also before the contains are a	55,000 to p iners from	rovide for truck trail	faster, sa	afer, all-we	eather load	ling and un	loadin

(1) Department and Division: Sewer Utility -	Treatment S	Section	(2) Project	Title: Trea	tment Plan	t Building	Modificati	ons	
			New		Estimated	Requirements in	Thousands		
Estimated Cost	Estimated Approp. Appropriation Total Cost (3) (4) (5)					19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)	
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14% TOTAL						gangaran ng paggangan ng paggang			
(16) Source of Funds									
Bonds –									
Grants — • Operational									
TOTAL		economispossa que rapido a roculida con musicida con constituida de constituida d			Charles (Charles Charles Charles (Charles Charles Char	des agricos activistativamente materialmente montre del processorio del constanticio del co			
(e) 1,305; (f) 73,464 (17) Gross Floor Area (g) 1,686 Sq. Ft. (18) Building Cost Per Sq. Ft. \$\{\epsilon\}\ \\$49.81 (f)\$7.08 (g) 26.69 (19) Project Status (20) Architectural and Engineering Fees: 63.0 (21) Percent of Building Cost 10 % (22) Estimated Start Date Engineering and Construction - 1978 (23) Estimated Completion Date Construction - 1981									
<ul> <li>(24) Project Description and Justification (Continue on Additional Sheets. Same Size)</li> <li>(13) Buildings - (e) Modify existing Chlorine/Shop Building, for \$65,000, by adding a second story over part of building roof, and utilizing for personnel lunch room and office space for maintenance supervisor. Present lunch room and office would then be converted to much needed space for electrical and instrumentation maintenance facilities, restoring also needed storage space for materials and spare parts.</li> <li>(f) Add dome-type covers to all clarifiers and thickeners, for \$520,000 for all-weather protectifor equipment and treatment processes, and to make it possible to perform required operation and maintenance work in those areas in winter months.</li> <li>(g) Add covers and/or enclosures to other uncovered structures, for \$45,000, also for protection against inclement weather. Overall plant operations and personnel operating efficiencies will result from the required modifications.</li> </ul>									

(1) Department and Division: Sewer Utility	- Treatmen	t Section	(2) Project	t Title: Treat	ment Plant	- New Buil	dings	
	Estimated	Арргор.	New		Estimated	Requirements in	Thousands	
Estimated Cost	Total Cost (3)	Prior Years (4)	Appropriation 19 77 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14%	2,190.0					2,190.0		
(15) Overhead @ 14% TOTAL	307.0 2,497.0	**************************************				307.0 2,497.0		
(16) Source of Funds  Bonds - G.O. @ 75%  Grants - State @ 25%  Operational	1,873.0 624.0					1,873.0 624.0		
TOTAL	2,497.0					2,497.0		
(a) 9,600  (17) Gross Floor Area (b) 29,520 S  (18) Building Cost Per Sq. Ft. \$ (a) \$43.75 (b) (19) Project Status		(21 (22	Architectural a:     Percent of Buil     Estimated Start     Estimated Com	ding Cost <u>l</u> Date <u>Engine</u> e	.0 % ering, 1980	- Construc	tion, 1981	
equipment a necessity to (b) Add serpent sewage flow enclosure, plant efflo contact cha	op building sion for we and parts so time per tine style wille main and will puent disinfo	for mechar lding shop, torage space iod indicate chlorine containing according to the for each section procession shor each section shor each section procession short sho	machine sized. Estime on tact chamble dequate con ability for seet of three	hop, paint acility is ated cost obers, for \$ tact time. positive of gnificant of clarifier	shop, steam required ends \$420,000 \$1,770,000, This facility that the standard over	m cleaning ven now, an	area, and d will be ccomodate equire a w ased effic ill result	heavy an absolut ultimate eather iency in . Two

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(1) Department and Division: Sewer Utility -	Treatment	Section	(2) Project	litte: Treat	ment Plant	Fuel Facil	.ity		
			New	Estimated Requirements in Thousands					
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 197.7 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)	
(11) Equipment (Moveable) (12) Land (13) Buildings	21.0		21.0						
(14) Other Improvements (15) Overhead @ 14% TOTAL	3.0		3.0 24.0			AND THE RESERVE OF THE PERSON			
(16) Source of Funds	]								
Bonds - G.O. @ 100% Grants - Operational	24.0		24.0		**************************************		*		
TOTAL	24.0		24.0						
(17) Gross Floor Area 1,200 S (18) Building Cost Per Sq. Ft. \$ 19.48 (19) Project Status	······································	(21 (22	Architectural a Percent of Buil State Star State Star Star Star Star Star Star Star Star	ding Cost t Date	1977				

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - Install vehicle and equipment fueling facility on treatment plant site to eliminate substantial loss of labor hours and vehicle availability through present requirement to obtain fuel only at Bering Street and/or Tudor Road facilities. Remote location of treatment plant, number of vehicles used by the treatment section and the loss of productivity through refuel procedure, justifies requested facility.

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		Estimated		New	Estimated Requirements in Thousands				
stimated Cost	To	tal Cost (3)	Approp. Prior Years (4)	Appropriation 19 <u>77</u> (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19_81	19 <u>82</u>
11) Equipment (Moveable)									
12) Land 13) Buildings	_	.00 0		200					
14) Other Improvements	3	03.0		303.0					
15) Overhead @ 14%		42.0		42.0					
TOTAL	3	45.0		345.0				į	
16) Source of Funds		İ	ļ						***************************************
onds - G.O. @ 100%		45.0		345.0					
irants — Iperational		vorestornov.							
peratronal				***************************************					
TOTAL	3	45.0		345.0					
17) Gross Floor Area	Sq. Ft.		(20)	Architectural ar	nd Engineering F	es: None			<u> </u>
18) Building Cost Per Sq. Ft. \$			(21)	Percent of Build	ding Cost	%			
19) Project Status	rian and a second	•		Estimated Start					
			(23)	Estimated Comp	pletion Date	1977			

physiological effects on personnel.

sely affecting equipment operation and costs of same and is suspected of having undesirable

) Department and Division: Sewer Uti			New	Estimated Requirements in Thousands					
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977_ (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)	
(11) Equipment (Moveable) (12) Land (13) Buildings	15.0			15.0	*		A TOTAL CONTRACTOR OF THE PARTY	The state of the s	
(14) Other Improvements (15) Overhead @ 14% TOTAL	2.0			2.0					
(16) Source of Funds  Bonds - G.O. @ 100%  Grants	17.0			17.0					
TOTAL	17.0	A CANADA		17.0	reference and a final state of the state of				
(17) Gross Floor Area (18) Building Cost Per Sq. Ft. \$		(2)	Architectural at Percent of Buil Estimated Start Estimated Com	ding Cost Date	% 1978				
(b) Repl with		uipment in ls, require hod of stea ing equipme	ed to mainta m heating o ent for \$6,5	in and import of scum at	prove treat clarifier	ment proces	ses for \$8 her collect	,500. ion points	

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Estimated Cost  (11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14%	(20) Ar. (21) Per	chitectural and	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)  15.0  535.0  77.0 627.0  470.0 157.0	19_81	19_82 (10)
(12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14% 77.0 TOTAL 627.0 (16) Source of Funds  Bonds - G.O. @ 75% 470.0 Grants - State @ 25% 157.0 Operational  TOTAL 627.0  (17) Gross Floor Area Sq. Ft. (18) Building Cost Per Sq. Ft. \$ (19) Project Status  (24) Project Description and Justification (Continue on Additional Sheets.	(21) Per	chitectural and			535.0 77.0 627.0 470.0 157.0		
(13) Buildings (14) Other Improvements (15) Overhead @ 14%	(21) Per	chitectural and			77.0 627.0 470.0 157.0		
150 Overhead @ 14%	(21) Per	chitectural and			470.0 157.0		
(16) Source of Funds  Bonds - G.O. @ 75%	(21) Per	chitectural and			470.0 157.0		
Grants — State @ 25% 157.0  Operational 627.0  (17) Gross Floor Area Sq. Ft.  (18) Building Cost Per Sq. Ft. \$	(21) Per	chitectural and		, .	157.0		
(17) Gross Floor Area Sq. Ft. (18) Building Cost Per Sq. Ft. \$	(21) Per	chitectural and			627.0		
(18) Building Cost Per Sq. Ft. \$	(21) Per	chitectural and		******		7	
	(22) Est (23) Est	rcent of Buildi timated Start [	ing Cost1	O% eering and	Constructi		
(13) Buildings (a) Replace existing ting capacity for treatment plant a	Front end lo as require auxiliary po \$320,000. ad to comply	d, for \$] wer gener New unit with EPA	15,000. rator with will be re A regulation	unit with equired to ons.	substantia meet power	ally greate r demands c	er gener of expan
(b) Add stationary, h areas of plant fo as well for \$160,	c operations 900.	cleanup	work and	for mainte	nance equip	oment clear	ning wor
(c) Add second high p air operated diap	cessure and	volume ai	ir compres	sor, to ac	comodate ai	ir requirem	ments fo

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(2) Project Title: Treatment Plant Maintenance Equipment (1) Department and Division: Sewer Utility - Treatment Section Estimated Requirements in Thousands New Appropriation. Approp. Estimated 19\_\_\_78\_ 19\_\_\_79\_ 19.81 19\_82\_\_ 19\_\_80\_ **Total Cost** Prior Years 19\_\_77\_ **Estimated Cost** (9) (10) (7) (8) (6) (3) (4) (5) 50.0 (11) Equipment (Moveable) 50.0 (12) Land 26.0 26.0 (13) Buildings (14) Other Improvements 4.0 (15) Overhead @ 14% 11.0 7.0 57.0 30.0 TOTAL 87.0 (16) Source of Funds 30.0 Bonds - G. O. @ 100% 87.0 57.0 Grants -- Operational 57.0 30.0 TOTAL 87.0 (17) Gross Floor Area \_\_\_\_\_\_ Sq. Ft. (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$\_\_\_\_\_ (21) Percent of Building Cost (22) Estimated Start Date (a) & (b), 1977 (c) (d) & (e) 1980 (19) Project Status (23) Estimated Completion Date 1980 (24) Project Description and Justification (Continue on Additional Sheets. Same Size) (11) Equipment (Moveable) - (a) Install 5-ton capacity hydraulic crane to frame of new 1 1/2 ton truck for use as equipment maintenance vehicle in treatment plant and pump stations, for \$15,000 for crane only. (b) Add high pressure and volume steam cleaner unit, trailer mounted, for cleaning and other maintenance in pump stations and at plant for \$35,000. Install metal lathe, milling machine, and surface grinder in new shop building (13)requested for 1980, for plant and pump station equipment repair and maintenance

# CAPITAL IMPROVEMENTS PROGRAM SUMMARY

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(1) Department Enterprise Activities

(2) Division Sewer Utility - Treatment Section, Lift Station

(3)	TOTAL		TO BE F	UNDED (IN	THOUSAN	DS) (5)		(6)	(7)	(8)	(9)	(10)	(11)
PROJECT TITLE(S)	PROJECT COST (4)	G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER *		1977	<b>19</b> _78	1 <u>9_79</u>	1 <u>9_80</u>	19 <u>81</u>	19 <u>82</u>
Pump Station #1 - R&R	7.0	7.0						7.0					
Pump Station #2 - R&R	15.0	15.0						15.0					
Pump Station #2 -													
Additions	440.0	330.0			*110.0				440.0				
Chester Creek Force													
Main	1,254.0	941.0			*313.0				1254.0				
Pump Station #3 - R&R Pump Station #12	7.0	7.0									7.0		
Additions Campbell Creek Force	136.0	102.0			* 34.0							136.0	
Main	479.0	359.0			*120.0							479.0	
Pump Station #15 -	475.0	333.0			120.0							4/2.0	
Buildings	8.0	8.0						8.0					
Pump Station #15 -R&R	6.0	6.0						7	6.0				
Pump Station #17 -R&R		9.0						9.0					
TOTAL (12)	2,361.0	1784.0			577.0			39.0	1700.0		7.0	615.0	
* OTHER SOURCE OF	FUNDS (13)		FUND	ING (14	)								ALA
* State Grant Funds i	f Available			al Obligation ue Bonds il	Bonds			39.0	1277.0		7.0	461.0	
				TOTAL			77714744474847484	39.0	1700,0		7.0	615.0	

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					Treatment Pla	int Sa	atellites
Department and Division:	Corror Httility -	Treatment	Sontion	(2) Project Title:	Dumping Stati	on #	1 Vicini

			New		Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977_ (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings	6.0	100	6.0				the state of the s	
(14) Other Improvements (15) Overhead @ 14% TOTAL	1.0		1.0 7.0	con part of Vines and All Books with the State S	ting many becoming a company of the format of the contribution of			
(16) Source of Funds			######################################					
Bonds - G.O. @ 100% Grants - Operational	7.0		7.0					
TOTAL	7.0		7.0	Committee of the Commit				·
(17) Gross Floor Area (18) Building Cost Per Sq. Ft. \$		(21 (22	) Percent of Buil ) Estimated Star	ding Cost t Date	ees:%	Mary Control of the C		

(24) Pro	ect Description	and Ju	stification	(Continue	OB	Additional	Sheets.	Same	Size
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(13) Buildings - Two Flygt 6" CT dry pit submersible replacement sewage pumps with suction and discharge piping,
Existing pumping equipment, installed in 1959, is worn and inefficient and has unsafe open line
shafting. Planned replacement will reduce power cost through use of more efficient pumping equipment, eliminate costly repair and rebuilding as well as eliminate extensive safety guards required
to meet OSHA requirements for open line shafting.

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							Treatmen	it Plani	: Satell:	ites	
(1) Department and Division:	Sewer U	tility -	Treatment	Section	(2)	Project Title:	Chester	Creek,	Pumping	Station	#2

		Approp. Prior Years (4)	New		Estimated	Requirements in	Thousands	
Estimated Cost	Estimated Total Cost (3)		Appropriation 1977 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land								
(13) Buildings (14) Other Improvements	13.0		13.0		# -			
(15) Overhead @ 14% TOTAL	2.0		2.0 15.0					
(16) Source of Funds								
Bonds - G. O. @ 100% Grants - Operational	15.0		15.0					
	·····							
TOTAL	15.0		15.0				ur market and a second	

(17) Gross Floor AreaSq. Ft.	(20) Architectural and Engineering Fees:
(18) Building Cost Per Sq. Ft. \$	(21) Percent of Building Cost %
(19) Project Status	(22) Estimated Start Date
	(23) Estimated Completion Date

(24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - Procure spare impeller and spare pump shaft for existing 400 Hp Fairbanks Morse sewage pumps, to be used in preventative maintenance program to avoid extended pump shutdown time while rebuilding worn pumps, \$7,500 - Impeller; \$5,500 - Shaft.

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Treatment Plant Satellites (2) Project Title: Chester Creek, Pumping Station #2 (1) Department and Division: Sewer Utility - Treatment Section Estimated Requirements in Thousands New Appropriation Estimated Approp. 19 80 19\_81 19 82 19 78 19\_\_\_79\_ 19.77 Total Cost Prior Years **Estimated Cost** (9) (10)(6) (7) (8) (5) (4) (11) Equipment (Moveable) (12) Land 386.0 386.0 (13) Buildings (14) Other Improvements 54.0 54.0 (15) Overhead @ 14% TOTAL 440.0 440.0 (16) Source of Funds 330.0 Bonds - G. O. @ 75% 330.0 110.0 Grants - State @ 25% 110.0 Operational TOTAL 440.0 440.0 (20) Architectural and Engineering Fees: \$35 (17) Gross Floor Area \_\_\_\_\_Sq. Ft. (18) Building Cost Per Sq. Ft. \$ (21) Percent of Building Cost 10 (22) Estimated Start Date Engineering-1978, Construction - 1978 (19) Project Status (23) Estimated Completion Date Construction - 1979 (24) Project Description and Justification (Continue on Additional Sheets. Same Size) (13) Buildings - Install fourth sewage pump with electrical driving motor, controls, and piping at \$125,200. Install second emergency power generator, at \$225,700. Above projects consist of engineering and contracting for fourth sewage pump and a second emergency power generator sized and connected to automatically turn on and drive two sewage pumps when there is a failure in utility power system. This combined installation will provide additional pumping capability in keeping with the growth of the area served by this station, and is a part

of planned for expansion.

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(1) Department	and Division:	Sewer	Utility	_	Treatment	Section
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Treatment Plant Satellites (2) Project Title: Chester Creek Force Main

	<b>*</b>	<b>A</b>	New	Estimated Requirements in Thousands						
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 77 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19_80	19_81_	19 <u>82</u> (10)		
(11) Equipment (Moveable) (12) Land (13) Buildings										
(14) Other Improvements (15) Overhead @ 14% TOTAL	1,100.0 154.0 1,254.0			1,100.0 154.0 1.254.0						
(16) Source of Funds										
Bonds - G.O. @ 75%  Grants - State @ 25%  Operational	941.0			941.0 313.0	,					
TOTAL	1,254.0			1,254.0						

(19) Project Status

(22) Estimated Start Date Engineering - 1977

(23) Estimated Completion Date Construction - 1978

## (24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(14) Other Improvements - Project consists of a second force main installation to carry increased flow to treatment plant from fourth pump installation at the Chester Creek pumping station. This is a part of planned for expansion projects under the proposed and adopted construction schedule concurrent with community growth.

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) Department and Division: Sewer Util			New			Requirements in	Station #3 Thousands	
Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19	19 <u>78</u> (6)	19 <u>79</u> (7)	19_80	1981	19_82
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14% TOTAL	6.0 1.0 7.0					6.0 1.0 7.0		
(16) Source of Funds  Bonds - G.O. @ 100%  Grants - Operational  TOTAL	7.0					7.0		4
(17) Gross Floor Area (18) Building Cost Per Sq. Ft. \$ (19) Project Status		(21 (22	) Architectural ar ) Percent of Build ) Estimated Start ) Estimated Com	ding Cost	%			
(24) Project Description and Justification (Con (13) Buildings - Two replace through ins		nps with co	ntrols and small pack	piping. Page lift s	roject requ tation.	uired to ma	eet area gr	owth

p<sub>ane</sub> 277

(1) Department and Division: Sewer Utility	- Treatment	Section	(2) Projec			Satellite Pumping St		
	Estimated		New			Requirements in		
Estimated Cost	Total Cost (3)	Approp. Prior Years (4)	Appropriation 1977 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19_82
(11) Equipment (Moveable) (12) Land (13) Buildings	119.0						119.0	
(14) Other Improvements (15) Overhead @ 14% TOTAL	17.0 136.0						17.0 136.0	
(16) Source of Funds								
Bonds - G.O @ 75%  Grants - State @ 25%  Operational	102.0 34.0						102.0 34.0	To the second se
TOTAL	136.0						136.0	
(17) Gross Floor Area		(20 (21 (22 (23	) Percent of Build ) Estimated Start	nd Engineering Fe ding Cost 10 Date Engine pletion Date Co	% ering - 1			
(24) Project Description and Justification (Continue	on Additional Shee	ets. Same Size)		PPER PER CONTRACTOR CONTRACTOR AND COMMUNICATION OF THE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR			<del></del>	

(13) Buildings - Install fourth sewage pump with electrical driving motor, controls, and piping. Project consists o engineering and contracting for installation of additional pumping equipment, bringing this facility up to full planned for capacity to meet population growth in the area served and is part of planned for expansion.

Treatment Plant Satellites

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Sewer Utility - Treatment Section Campbell Creek Force Main (1) Department and Division: (2) Project Title: New Estimated Requirements in Thousands Appropriation 19\_\_77\_ Estimated Approp. 19\_80 19\_81 Total Cost Prior Years 19\_78\_ 19\_79\_ 19 82 **Estimated Cost** (3) (4) (5) (6) (7) (8) (9) (10)(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements 420.0 420.0 (15) Overhead @ 14% 59.0 59.0 TOTAL 479.0 479.0 (16) Source of Funds Bonds - G.O. @ 75% 359.0 359.0 Grants - State @ 25% 120.0 120.0 Operational 479.0 TOTAL 479.0 (17) Gross Floor Area \_\_\_\_\_\_Sq. Ft. (20) Architectural and Engineering Fees: \$38

(18) Building Cost Per Sq. Ft. \$\_\_\_\_\_

(19) Project Status

- (21) Percent of Building Cost 10 %
- (22) Estimated Start Date Engineering 1981
- (23) Estimated Completion Date Construction 1982

### (24) Project Description and Justification (Continue on Additional Sheets, Same Size)

(14) Other Improvements - Project consists of a second force main installation to carry increased flow to treatment plant from fourth pump installation at the Campbell Creek Pumping Station. This is a part of planned for expansion projects under the proposed and adopted construction schedule concurrent with community growth.

Treatment Plant Satellites Page 279

Department and Division:	Sewer Utility	- ireatmen	it Section	(2) Projec	( IIIIe: Inte	ernational A	Airport - P	umping Sta	tion #15
•		E di and		New		Estimated	Requirements in	Thousands	
Estimated Cost		Estimated Total Cost (3)	Approp. Prior Years (4)	Appropriation 19 77 (5)	19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	19 <u>81</u> (9)	19 <u>82</u> (10)
(11) Equipment (Moveable) (12) Land (13) Buildings (14) Other Improvements (15) Overhead @ 14%		7.0		7.0 1.0					
TOTAL		8.0		8.0					
(16) Source of Funds									
Bonds - G.O. @ 100% Grants - Operational		8.0		8.0					
TOTAL		8.0		8.0					
(17) Gross Floor Area(18) Building Cost Per Sq. Ft. (19) Project Status	\$		(21 (22	Architectural a Percent of Buil Estimated Star Started Com	ding Cost <u>1(</u> t Date				

(13) Buildings - Construct underground vault over wet well of small built in place pumping station. This improvement will be made at a cost only slightly more than reconstructing another above ground wood building to replace present structure where concrete foundation has been undermined and broken, making extensive rebuilding necessary.

Page 280 Treatment Plant Satellites (1) Department and Division: Sewer Utility - Treatment Section (2) Project Title: International Airport - Pumping Station #16 New Estimated Requirements in Thousands Estimated Approp. Appropriation **Total Cost** Prior Years 19\_\_\_77\_ 19\_78\_\_ Estimated Cost 19\_\_79\_ 19\_\_80\_\_ 19\_\_81\_ 19\_82 (3) (4) (5) (6) (7) (8) (9) (10)(11) Equipment (Moveable) (12) Land (13) Buildings 5.0 5.0 (14) Other Improvements (15) Overhead @ 14% 1.0 1.0 TOTAL 6.0 6.0 (16) Source of Funds Bonds - G. O. @ 100% 6.0 6.0 Grants - Operational TOTAL 6.0 6.0 (17) Gross Floor Area \_\_\_\_\_Sq. Ft. (20) Architectural and Engineering Fees: (18) Building Cost Per Sq. Ft. \$\_\_\_\_\_ (21) Percent of Building Cost % (19) Project Status (22) Estimated Start Date (23) Estimated Completion Date (24) Project Description and Justification (Continue on Additional Sheets. Same Size)

(13) Buildings - Two replacement submersible sewage pumps to install in small International Airport pumping station.

Present pumps have been in service for approximately 8 years, making replacements due in 1978,
based on 10 year life expectancy.

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Estimated Cost	Estimated	Approp. Prior Years (4)	New Appropriation 1977_(5)	Estimated Requirements in Thousands				
	Total Cost (3)			19 <u>78</u> (6)	19 <u>79</u> (7)	19 <u>80</u> (8)	1981	19 <u>82</u> (10)
(11) Equipment (Moveable)								
(12) Land (13) Buildings (14) Other Improvements	8.0		8.0				The state of the s	Principal description of the control
(15) Overhead @ 14% TOTAL	1.0	The state of the s	1.0					999444-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
(16) Source of Funds								
Bonds - G.O. @ 100% Grants - ◆ Operational	9.0		9.0		OF THE PROPERTY OF THE PROPERT			,
	-							The second secon
TOTAL	9.0		9.0					And a second sec
(17) Gross Floor Area  (18) Building Cost Per Sq. Ft. \$		(20	Architectural ar	nd Engineering Fe				
(19) Project Status		(22	) Estimated Start	Date	76	· · · · · · · · · · · · · · · · · · ·		

<sup>(24)</sup> Project Description and Justification (Continue on Additional Sheets. Same Size)

<sup>(13)</sup> Buildings - One complete new sewage pump with electric motor, controls, and check valves for use in preventative maintenance program for main International Airport system pumping station to provide continuous pumping during major pump overhaul.