

SPECIAL PROJECTS

Survey and Platting Records
Reconstruction & Rehabilitation Projects
Miscellaneous Storm Drainage
Signalization

CITY OF ANCHORAGE

DATE 6-75

DEPARTMENT OF Public Works (1)

CAPITAL IMPROVEMENT PROGRAM

SUMMARY OF Special Projects (2)

DESCRIPTION (3)	TOTAL PROJECT COST (4)	TO BE FUNDED IN THOUSANDS (5)						(6)	(7)	(8)	(9)	(10)	(11)
		G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER		1975	1976	1978	1979	1980	1981
76:S-1 Horizontal Control	90	90						15	15	15	15	15	15
:S-2 Survey Monumentation	90	90						15	15	15	15	15	15
:S-3 Vertical Control	90	90						15	15	15	15	15	15
:S-4 Project Displays	60	60						10	10	10	10	10	10
:S-5 Mapping Program	270	270						90	90	90			
:S-6 Arterial ROW Acquisition	1,500	1,500						250	250	250	250	250	250
:S-7 Soils Investigations	60	60						10	10	10	10	10	10
:S-8 Foot & Bike Trails	800	400			400			200	200	100	100	100	100
:S-9 Utility Contingencies	600	600						100	100	100	100	100	100
S-10 Sidewalk Const. & Recon.	550	550						50	100	100	100	100	100
:S-11 Street Reconstruction	3,600	3,600						450	550	650	650	650	650
:S-12 Area Drainage Studies	60	60						10	10	10	10	10	10
TOTAL continued on following page-42a													
OTHER SOURCE OF FUNDS (12)			COMMENTS (13)										
G.A.A.B. for shared signals													

CITY OF ANCHORAGE

DATE 6-75

DEPARTMENT OF Public Works (1)

CAPITAL IMPROVEMENT PROGRAM

SUMMARY OF Special Projects (2)

DESCRIPTION (3)	TOTAL PROJECT COST (4)	TO BE FUNDED IN THOUSANDS (5)						(6)	(7)	(8)	(9)	(10)	(11)
		G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER		1976	1977	1978	1979	1980	1981
:S-13 Flood Structure Upgrade	300	300						100	100	100			
:S-14 Misc. Signalization	2,650	2,235			265	150		670	380	400	400	400	400
TOTAL (12)	10,720	9,905			665	150		1,985	1,845	1,865	1,675	1,675	1,675
OTHER SOURCE OF FUNDS (13)		COMMENTS (14)											
G.A.A.B. for shared signals													

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works-Engineering			Horizontal Control Survey				76:S-1
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(16) Other									
TOTAL		\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
	TOTAL	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code _____
 (21) Architectural and Engineering Fees: \$90,000 (22) Percent of Building Cost 100% NO
 (23) Estimated Start Date 1/1/76 (24) Estimated Completion Date 12/31/81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
	List Programs(s) Affected	First Year				
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)
 Continue State Plane Coordinate System
 Justification:
 Establishment of State Plane Coordinates on properties to provide more accurate and efficient means of identification and location of property and utilities.

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works-Engineering			Survey Monumentation				76:S-2
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Movable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(16) Other									
TOTAL		\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
	TOTAL	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(18) Gross Floor Area _____ Sq. Ft.		(19) Building Cost Per Sq. Ft. \$ _____		(20) Project Status Code _____					
(21) Architectural and Engineering Fees: \$90,000		(22) Percent of Building Cost 100 %		(23) Estimated Start Date 1/1/76		(24) Estimated Completion Date 12/31/81		NO	
(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues			
List Programs(s) Affected	First Year								
	Full Year								
(26) Project Description and Justification (Continue on Additional Sheets, Same size)									
<p>Monumentation of unmonumented areas of City-New Subdivisions. Maintain existing monumentation through replacement, monument cases and covers.</p> <p>1976 Program:</p> <ol style="list-style-type: none"> 1. Replace monument covers and cases in City. 2. Establish new monumentation in Spenard area <p>Existing monumentation and accessories have deteriorated through lack of continuing maintenance. New monumentation is required to continue control surveys.</p>									

CIP-2

City Cost = 100%

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works-Engineering			Vertical Control Survey				76:S-3
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(16) Other									
TOTAL	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
	TOTAL	\$90,000		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
(18) Gross Floor Area _____ Sq. Ft.		(19) Building Cost Per Sq. Ft. \$ _____		(20) Project Status Code _____					
(21) Architectural and Engineering Fees: \$90,000		(22) Percent of Building Cost 100 %		(23) Estimated Start Date 1/1/76		(24) Estimated Completion Date 12/31/81		NO	
(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues			
List Programs(s) Affected	First Year								
	Full Year								
(26) Project Description and Justification (Continue on Additional Sheets, Same size)									
Continue Vertical Control Program.									
Justification:									
Establishment of Vertical Control throughout the City and provide consistent control for entire City.									
CIP-2					City Cost = 100%				

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Project Displays				76:S-4
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		\$60,000		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
(16) Other									
TOTAL		\$60,000		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	\$60,000		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
	TOTAL	\$60,000		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code _____
 (21) Architectural and Engineering Fees: \$60,000 (22) Percent of Building Cost 100% PPC _____
 (23) Estimated Start Date 1/1/76 (24) Estimated Completion Date 12/31/81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
	List Programs(s) Affected	First Year				
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)

This proposal created a sub-section of the City Engineer's office which provides graphic art displays, charts, maps, graphs, and other visual aid materials for presentation to the City Council, various other governmental agencies, and the general public. An increasing number of City Departments are utilizing the Engineering Division to provide their necessary graphic art presentations. The intent of this facility has been to enhance the City Council's ability to review all City projects more concisely and clearly.

City Cost = 100%

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title			(3) Priority Number	
		Public Works - Engineering			Mapping Program			76:S-5	
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)		\$270,000		\$ 90,000	\$ 90,000	\$ 90,000			
(13) Land									
(14) Buildings									
(15) Other Improvements									
(16) Other									
TOTAL		\$270,000		\$ 90,000	\$ 90,000	\$ 90,000			
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	\$270,000		\$ 90,000	\$ 90,000	\$ 90,000			
	TOTAL	\$270,000		\$90,000	\$90,000	\$90,000			

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code _____
 (21) Architectural and Engineering Fees: \$270,000 (22) Percent of Building Cost 90%
 (23) Estimated Start Date 1/1/76 (24) Estimated Completion Date 12/31/78 NO

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)
 City Manager Regulation 22.1.1 provides that the Engineering Division is the repository for all as-built information on installations occupying public rights-of-way and utility easements. The regulation also provides that the Division is responsible for providing all known information to contractors planning excavations. As-built information is compiled on the 50' scale drawings, both as a convenience for the Division, and as a quick and easy method of providing information to inquirers. At present these drawings are badly out of date, necessitating the expenditure of considerable amounts of time, frequently on the part of several persons, whenever as-built data is required. The delays in finding the necessary information are an inconvenience and annoyance to the public, and the necessity for digging out the required date disrupts normal office procedures.

Public Works-Engineering/Mapping Program/76:S-5

It is also intended to revise the present method of drafting for permanent records (100' scale, 500' scale, etc., drawings) to a "scribe-coat" system. In scribing, the draftsman incises lines into a special surface with scribing tools. This finished drawing serves as a negative for contact printing and other reproductions. This method of drafting has a number of advantages over the older pen and ink system presently utilized. It is faster, because the draftsman does not have to wait for the ink to dry and the points do not clog; corrections and updating may also be accomplished more quickly because a single swipe with a grease pencil or brush, replaces the more tedious and time consuming use of an eraser. In fact, users have reported time savings up to 33% in drawing operations alone, because of the simplicity compared to working with ink. Large areas on completed drawings may also be blocked out by simpler means, allowing utilization of one base map for several projects.

The quality of the finished product is better as the scribes are available in many more, and narrower, line widths than are the points used for inking. The greater variety in width provides greater differentiation between the various items appearing on any drawing. The scribes also make lines that are always sharp and clean, never varying in width, and which cannot be smudged. Another substantial advantage is the far greater stability of the heavy mylar materials available for the scribe-coat system. Linens and similar materials used for inking stretch and shrink with age and repeated processing through reproduction machines while the same applications have virtually no effect on scribe-coat materials. This is of particular importance where overlays, such as are utilized for the 500 scales, are used.

The funds proposed for the next three years will allow the continued use of 4 draftsmen, the purchase of necessary equipment, space rental, and supplies to bring our vital as-built data up to date and substantially improve the quality of our permanent records.

City Cost = 100%

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Arterial Right of Way Acquisition				76:S-6
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Movable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		1,500,000		250,000	250,000	250,000	250,000	250,000	250,000
(16) Other									
TOTAL		1,500,000		250,000	250,000	250,000	250,000	250,000	250,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	1,500,000		250,000	250,000	250,000	250,000	250,000	250,000
	TOTAL	1,500,000		250,000	250,000	250,000	250,000	250,000	250,000
(18) Gross Floor Area _____ Sq. Ft.		(19) Building Cost Per Sq. Ft. \$ _____		(20) Project Status Code _____					
(21) Architectural and Engineering Fees: \$180,000		(22) Percent of Building Cost 12 %		(23) Estimated Start Date 1/1/76		(24) Estimated Completion Date 12/31/81		PE	
(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues			
List Programs(s) Affected	First Year								
	Full Year								
(26) Project Description and Justification (Continue on Additional Sheets, Same size)									
<p>The present arterial plans adopted by the local governmental agencies dictate the widths of arterials and their necessary right-of-way. These funds would allow for those purchases to expedite the completion of the arterials. Present arterial programs for which Right of Way acquisition to 70 and 80 foot widths are Fireweed Lane from Arctic to Spenard, Spenard Road from Northern Lights Boulevard to Hillcrest, Pine Street from 6th to Glenn, and Mountain View Drive from Bragaw to Pine.</p>									
City Cost = 100%									

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Soils Investigations				76:S-7
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		60,000		10,000	10,000	10,000	10,000	10,000	10,000
(16) Other									
TOTAL		60,000		10,000	10,000	10,000	10,000	10,000	10,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	60,000		10,000	10,000	10,000	10,000	10,000	10,000
	TOTAL	60,000		10,000	10,000	10,000	10,000	10,000	10,000
(18) Gross Floor Area _____ Sq. Ft.		(19) Building Cost Per Sq. Ft. \$ _____		(20) Project Status Code _____					
(21) Architectural and Engineering Fees: \$60,000		(22) Percent of Building Cost <u>100</u> %		NO					
(23) Estimated Start Date <u>1/1/76</u>		(24) Estimated Completion Date <u>12/31/81</u>							
(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues			
List Programs(s) Affected	First Year								
	Full Year								
(26) Project Description and Justification (Continue on Additional Sheets, Same size)									
<p>Soils Exploration - Would provide for equipment rental and labor for approximately 3 months during the summer to obtain soils information on forthcoming projects and continue building our library of such information. This would avoid a winter operation. In addition, more timely soils testing which should improve construction quality is part of this program.</p> <p style="text-align: center;">City Cost = 100%</p>									

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works- Engineering			Foot and Bike Trails				76:S-8
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1975 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		800,000		200,000	200,000	100,000	100,000	100,000	100,000
(16) Other									
TOTAL		800,000		200,000	200,000	100,000	100,000	100,000	100,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	State of Alaska Street, Storm Sewer, Bike Trail	400,000		100,000	100,000	50,000	50,000	50,000	50,000
	Bonds	400,000		100,000	100,000	50,000	50,000	50,000	50,000
	TOTAL	800,000		200,000	200,000	100,000	100,000	100,000	100,000
(18) Gross Floor Area <u>600,000</u> Sq. Ft.		(19) Building Cost Per Sq. Ft. \$		(20) Project Status Code					
(21) Architectural and Engineering Fees: <u>\$144,000</u>		(22) Percent of Building Cost <u>18</u> %		PE					
(23) Estimated Start Date <u>1/1/76</u>		(24) Estimated Completion Date <u>12/31/81</u>							
(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues			
List Programs(s) Affected	First Year								
	Full Year								

(26) Project Description and Justification (Continue on Additional Sheets, Same size)

To provide funds over the next 4 years for the design and construction of on-street and off-street bikeways and trails. 1976 and 1977 funds will allow completion of the City's portion of area bikeways as outlined in the GAAB's Comprehensive Plan. Remaining funds are for additional bikeway construction that may be authorized in the future. Entire program is based on anticipated 50% State Financial assistance.

1976 Estimated Program

Trail South along the ARR connecting the Bensen Boulevard Biketrail with the Westchester Lagoon and Chester Creek Biketrail. North from Westchester Lagoon along the ARR to the ARR Depot area connecting the Elderberry-Inlet View park systems. Pine Street connecting Russian Jack Springs to Northern Lights' park system.

1977 Estimated Program

South Chester Creek from Northern Lights Blvd. to Patterson Road, Eagle Street from Chester Creek to Fireweed, and Goose Lake Area connecting AMU and the Higher Education Complex area.

1978 Estimated Program

Maintenance of existing Bike Trails plus additional trail construction as needed.

1979 Estimated Program

Maintenance of existing Bike Trails plus additional trail construction as needed.

1980 Estimated Program

Maintenance of existing Bike Trails plus additional trail construction as needed.

1981 Estimated Program

Maintenance of existing Bike Trails plus additional trail construction as needed.

Estimated City Cost = \$400,000
Estimated State Cost= \$400,000
Estimated Total Cost= \$800,000

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Utility Contingencies				76:S-9
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1975 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		600,000		100,000	100,000	100,000	100,000	100,000	100,000
(16) Other									
TOTAL		600,000		100,000	100,000	100,000	100,000	100,000	100,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street and Storm Sewer Bonds	600,000		100,000	100,000	100,000	100,000	100,000	100,000
	TOTAL	600,000		100,000	100,000	100,000	100,000	100,000	100,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code NO _____
 (21) Architectural and Engineering Fees: \$48,000 (22) Percent of Building Cost 12%
 (23) Estimated Start Date 1-1-76 (24) Estimated Completion Date 12-31-81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)

Utility relocations are necessitated by residential and arterial paving projects to prevent future possible damage to the roadway prism. The cost of these relocations must be borne by street bonds in those cases where the utility originally located within their proper easements. In addition, utility service connections need to be prefinanced in paving districts. These service connections are directly reimbursable by assessment.

City Cost = 100% Relocates
 Property Owner Cost = 100% Service Connections

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Sidewalk Construction & Reconstruction				76:S-10
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		550,000		50,000	100,000	100,000	100,000	100,000	100,000
(16) Other									
TOTAL		550,000		50,000	100,000	100,000	100,000	100,000	100,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	550,000		50,000	100,000	100,000	100,000	100,000	100,000
	TOTAL	550,000		50,000	100,000	100,000	100,000	100,000	100,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code PE
 (21) Architectural and Engineering Fees: \$66,000 (22) Percent of Building Cost 12 %
 (23) Estimated Start Date 1-1-76 (24) Estimated Completion Date 12-31-81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)
 Because many arterial and subdivision streets are being constructed without sidewalks, these funds are being programmed for future sidewalk requirements. Additionally, continuous replacement through the City of deteriorated curb, gutter, and sidewalk is planned as necessary. Future new sidewalk construction will be needed on 36th Avenue from Cottonwood to Lake Otis Parkway.

City Cost					
76	77	78	79	80	81
30,000	60,000	60,000	60,000	60,000	60,000

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Street Resurfacing and Reconstruction				76:S-11
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Movable)		3,600,000		450,000	550,000	650,000	650,000	650,000	650,000
(13) Land									
(14) Buildings									
(15) Other Improvements									
(16) Other									
TOTAL		3,600,000		450,000	550,000	650,000	650,000	650,000	650,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	3,600,000		450,000	550,000	650,000	650,000	650,000	650,000
	TOTAL	3,600,000		450,000	550,000	650,000	650,000	650,000	650,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code PE
 (21) Architectural and Engineering Fees: \$432,000 (22) Percent of Building Cost 12%
 (23) Estimated Start Date 1-1-76 (24) Estimated Completion Date 12-31-81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)
 Street funds are programmed in 1976 through 1981 to provide funds for the reconditioning and rebuilding of some of the older City streets. Paved streets should be reconditioned on a regular basis and a seven year rotating program over and above regular maintenance could keep the present City streets in order. A computerized maintenance program will be set up that will predict the useful life of paved streets based upon the variables of traffic frequency, subgrade materials and drainage consistencies, and program their repair. In addition, streets damaged by frost heaving, major settlement, wall failure, or other possible winter damage, are evaluated after spring breakup and repaired as needed. Empirically, the following streets need to be insulated and reconstructed: 15th Ave. from Cordova to "E" Street, Christensen Drive, and portions of Geneva Woods, Wagner Estates, Castle Heights and Thunderbird Terrace.

CIP-2

100% City's Cost

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Area Drainage Studies				76:S-12
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		60,000		10,000	10,000	10,000	10,000	10,000	10,000
(16) Other									
TOTAL		60,000		10,000	10,000	10,000	10,000	10,000	10,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	60,000		10,000	10,000	10,000	10,000	10,000	10,000
	TOTAL	60,000		10,000	10,000	10,000	10,000	10,000	10,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code PE
 (21) Architectural and Engineering Fees: \$60,000 (22) Percent of Building Cost 100 %
 (23) Estimated Start Date 1-1-76 (24) Estimated Completion Date 12-31-81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)

Area drainage studies provide for research and analysis of areas to determine size and scope of needed drainage projects. Further study of the watersheds would facilitate evaluation of the present storm sewer system. Necessary overall schematic plans for expansions and interconnections of the system could be developed from the resultant topographical information.

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Engineering			Flood Plain Drainage Structure Upgrade				76:S-13
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
		(12) Equip. (Moveable)							
		(13) Land							
		(14) Buildings							
		(15) Other Improvements	300,000		100,000	100,000	100,000		
		(16) Other							
		TOTAL	300,000		100,000	100,000	100,000		
(17) Estimate Cost by Source of Funds									
Code	Fund	Title							
		Street & Storm Sewer Bonds	300,000		100,000	100,000	100,000		
		TOTAL	300,000		100,000	100,000	100,000		
		(18) Gross Floor Area _____ Sq. Ft.		(19) Building Cost Per Sq. Ft. \$ _____		(20) Project Status Code PE _____			
		(21) Architectural and Engineering Fees: \$36,000		(22) Percent of Building Cost _____					
		(23) Estimated Start Date 1-1-76		(24) Estimated Completion Date 10-1-79					
(25) Effect on Budget		Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues		
List Programs(s) Affected		First Year							
		Full Year							
(26) Project Description and Justification (Continue on Additional Sheets, Same size)									
<p>Flood plain areas and projected flows are being analyzed to determine the extent and effects of the Corps of Engineers projected floods. Adequate sizing for the approximately 30 flood plain street crossings within the present City have not been presently determined. A least cost solution to replacing or upgrading those drainage structures which are unable to sustain the necessary projected flood will be effected by this program. This program will allow the City to examine and set priorities for structures on arterial crossings and lower elevation designs of residential crossings which would allow street overflow in case of project flood.</p>									

CAPITAL PROJECT ESTIMATE		(1) Department and Division			(2) Project Title				(3) Priority Number
		Public Works - Traffic Eng.			Traffic Signals				76:S-14
Estimated Cost by Object		Estimated Total Cost (4)	Approp. Prior Years (5)	New Appropriation 1976 (6)	Estimated Requirments in Thousands				
					1977 (7)	1978 (8)	1979 (9)	1980 (10)	1981 (11)
(12) Equip. (Moveable)									
(13) Land									
(14) Buildings									
(15) Other Improvements		2,650,000		670,000	380,000	400,000	400,000	400,000	400,000
(16) Other									
TOTAL		2,650,000		670,000	380,000	400,000	400,000	400,000	400,000
(17) Estimate Cost by Source of Funds									
Code	Fund Title								
	Street & Storm Sewer Bonds	2,235,000		430,000	330,000	275,000	400,000	400,000	400,000
	State of Alaska	265,000		165,000	50,000	50,000			
	GAAB	150,000		75,000		75,000			
	TOTAL	2,650,000		670,000	380,000	400,000	400,000	400,000	400,000

(18) Gross Floor Area _____ Sq. Ft. (19) Building Cost Per Sq. Ft. \$ _____ (20) Project Status Code PE
 (21) Architectural and Engineering Fees: Included (22) Percent of Building Cost _____ %
 (23) Estimated Start Date 1-1-76 (24) Estimated Completion Date 12-31-81

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Programs(s) Affected	First Year					
	Full Year					

(26) Project Description and Justification (Continue on Additional Sheets, Same size)

The listed intersections will have signalization and left turn channelization where required. The system will in general consist of overhead signals and pedestrian indication in conformance with the Manual on Uniform Traffic Control Devices. (See attached for intersections to be signalized.)

INTERSECTIONS TO BE SIGNALIZED

	Cost Share			
	City	State	GAAB	Total
<u>1976 Projects</u>				
N.L.B. & Boniface	\$ 25,000	\$ 50,000	\$ 25,000	\$100,000
N.L.B. & Turnagain	50,000		50,000	100,000
E. 5th & Concrete	35,000	65,000		100,000
Mt. View Dr. & Klevin	60,000			60,000
Maplewood & N.L.B.	50,000	50,000		100,000
Various School Signals	60,000			60,000
Misc. & Upgrading	150,000			150,000
1976 Totals	\$430,000	\$165,000	\$ 75,000	\$670,000

<u>1977 Projects</u>				
Providence & University	\$ 90,000			\$ 90,000
36th & Latouche	90,000			90,000
Latouche & N.L.B.	50,000	\$ 50,000		100,000
Misc. & Upgrading	100,000			100,000
1977 Totals	\$330,000	\$ 50,000		\$380,000

<u>1978 Projects</u>				
Debarr & Turpin		\$ 50,000	\$ 50,000	\$100,000
N.L.B. & Baxter	\$ 75,000		25,000	100,000
Misc. & Upgrading	200,000			200,000
1978 Totals	\$275,000	\$ 50,000	\$ 75,000	\$400,000

	Cost Share			
	City	State	GAAB	Total
<u>1979 Projects</u>				
Misc. & Upgrading	\$400,000			\$400,000
1979 Totals	\$400,000			\$400,000
<u>1980 Projects</u>				
Misc. & Upgrading	\$400,000			\$400,000
1980 Totals	\$400,000			\$400,000
<u>1981 Projects</u>				
Misc. & Upgrading	\$400,000			\$400,000
1981 Totals	\$400,000			\$400,000