CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works-Engineering	Horizontal Control Survey	75-S-1

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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 NO

(21) Architectural and Engineering Fees: $90,000 (22) Percent of Building Cost 100 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Survey Monumentation	Public Works - Engineering	75-S-2

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code NO

(21) Architectural and Engineering Fees: $90,000 (22) Percent of Building Cost 100 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

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

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

Monumentation of unmonumented areas of City-New Subdivisions. Maintain existing monumentation through replacement, monument cases and covers.

1975 Program:

1. Replace monument covers and cases in City.
2. Establish new monumentation in Spenard area

Existing monumentation and accessories have deteriorated through lack of continuing maintenance. New monumentation is required to continue control surveys.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works - Engineering	Vertical Control Survey	75-S-3

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code NO

(21) Architectural and Engineering Fees: $90,000 (22) Percent of Building Cost 100 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget List Program(s) Affected	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
	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.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works - Engineering	Project Displays	74-S-4

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code PPC

(21) Architectural and Engineering Fees: $60,000 (22) Percent of Building Cost 100 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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%

CIF-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division			(2) Project Title				(3) Priority Number
	Public Works-Engineering			Rate Structure Study				75-S-5
				Estimated Requirements				
Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(13) Land								
(14) Buildings								
(15) Other Improvements	$10,000		$10,000					
(16) Other								
TOTAL	$10,000		$10,000					
Estimated Cost by Source of Funds								
Code / Fund Title								
Street and Storm Sewer Bonds	$10,000		$10,000					
TOTAL								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code PE

(21) Architectural and Engineering Fees: $10,000 (22) Percent of Building Cost 12 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/75

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

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

Studies are necessary to develop engineering rate structures in accordance with actual costs and on-going C.I.P. pre-planning public information programs for promotion of projects by district and agreements. Future budgetary planning can be more correctly programmed if this project is instituted.

100% City's Cost

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works-Engineering	Mapping Program	75-S-6

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)	$30,000		$20,000	$10,000				
(13) Land								
(14) Buildings								
(15) Other Improvements	$160,000		$80,000	$ 80,000				
(16) Other								
TOTAL	$190,000		$100,000	$ 90,000				
Estimated Cost by Source of Funds								
Code Fund Title								
Street & Storm Sewer Bonds	$190,000		$100,000	$90,000				
TOTAL								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code NO

(21) Architectural and Engineering Fees: $240,000 (22) Percent of Building Cost 90 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/76

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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 data disrupts normal office procedures.

(continued)

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 of this and 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 differentation 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 two 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.

The $10,000 increase in the 1975 C.I.P. is to allow the acquisition of a flat bed plotter to be used in conjunction with the existing Wang Computer.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division			(2) Project Title				(3) Priority Number
	Public Works - Engineering			Arterial Right of Way Acquisition				75-S-7
				Estimated Requirements				
Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(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
Estimated Cost by Source of Funds								
Code / Fund Title								
Street & Storm Sewer Bonds								
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 PE

(21) Architectural and Engineering Fees: $180,000 (22) Percent of Building Cost 12 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

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

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

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, and Bragaw from DeBarr to Northern Lights Boulevard.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works - Engineering	Soils Investigations	75-S-8

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(18) Gross Floor Area _____ Sq.Ft. (19) Building Cost Per Sq.Ft. $_____ (20 Project Status Code NO

(21) Architectural and Engineering Fees: $60,000 (22) Percent of Building Cost 100 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/80

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

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

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.

City Cost = 100%

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division: Public Works Engineering	(2) Project Title: Foot & Bike Trails	(3) Priority Number: 75-S-9

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(13) Land								
(14) Buildings								
(15) Other Improvements	600,000		200,000	200,000	100,000	100,000		
(16) Other								
TOTAL	600,000		200,000	200,000	100,000	100,000		
Estimated Cost by Source of Funds								
Code / Fund Title								
State of Alaska Street, Storm Sewer, Bike Trail	300,000		100,000	100,000	50,000	50,000		
Bonds	300,000		100,000	100,000	50,000	50,000		
TOTAL	600,000		200,000	200,000	100,000	100,000		

(18) Gross Floor Area 600,000 Sq.Ft. (19) Building Cost Per Sq.Ft. $ _____ (20 Project Status Code PE

(21) Architectural and Engineering Fees: $108,000 (22) Percent of Building Cost 18 %.

(23) Estimated Start Date 1/1/75 (24) Estimated Completion Date 12/31/78

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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. 1975 and 1976 funds will allow completion of the City's portion of area bikeways as outlined in the GAAB's General 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.

1975 Estimated Program

Signing & Striping of Old Seward Highway from 36th Ave. to 30th Ave., the Mt. View Area from Mt. View Elementary School to Commercial Drive, 1st Ave/Orca St. from the Buttress Haul Road to Ingra St. & Bragaw St. from Commercial Drive to Northern Lights Blvd. Widen the sidewalk on the north side of 36th Ave. between Old & New Seward Highways.

(continued)

Construct gravel embankment & surfacing parallel to Northern Lights Blvd. from Forest Park Drive to Earthquake Park, the Buttress Haul Road from Commercial Drive to 1st Ave., Commercial Drive from the Buttress Haul Road to Bragaw St., & around Goose Lake.

1976 Estimated Program

Construct gravel embankment & surfacing parallel to Chester Creek from Eagle St. to Karluk St. & South Chester Creek from Northern Lights Blvd. to Patterson Road.

1977 Estimated Program

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

1978 Estimated Program

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

Estimated City Cost = $300,000
Estimated State Cost = $300,000
Estimated Total Cost = $600,000

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division			(2) Project Title				(3) Priority Number
	Public Works - Engineering			Utility Contingencies				75-S-10
				Estimated Requirements				
Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(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 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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 reimburseable by assessment.

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

CIP-2

CAPITAL PROJECT ESTIMATE

(1) Department and Division: Public Works - Engineering

(2) Project Title: Sidewalk Construction & Reconstruction 75 S-11

(3) Priority Number:

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(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 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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, continous 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

75	76	77	78	79	80
30,000	60,000	60,000	60,000	60,000	60,000

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works - Engineering	Street Resurfacing and Reconstruction	75: S-12

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(13) Land								
(14) Buildings								
(15) Other Improvements	$3,600,000		$450,000	$550,000	$650,000	$650,000	$650,000	$650,000
(16) Other								
TOTAL	$3,600,000		$450,000	$550,000	$650,000	$650,000	$650,000	$650,000
Estimated 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								

(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 1/1/75 (24) Estimated Completion Date 12/1/80

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

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

Street funds are programmed in 1975 thru 1980 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.

100% City's Cost

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division			(2) Project Title				(3) Priority Number
	Public Works - Engineering			Area Drainage Studies				75: S-13
				Estimated Requirements				
Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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
Estimated 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								

(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 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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.

100% City Cost

CIP-2

CAPITAL PROJECT ESTIMATE

(1) Department and Division: Public Works - Engineering

(2) Project Title: Flood Plain Drainage Structure Upgrade

(3) Priority Number: 75: S-14

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (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			
Estimated Cost by Source of Funds								
Code / Fund Title								
Street & Storm Sewer Bonds	$300,000		$100,000	$100,000	$100,000			
TOTAL								

(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 12 %.

(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 Program(s) Affected	First Year					
	Full Year					

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

Flood plain areas and projected flows are being analyzed to determine the extend 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. Funds for the Chester Creek crossing of Northern Lights Boulevard in Collegegate East Subdivision have been programmed for 1975. Multiple use pedestrian walkways and flood structures at the Chester Creek crossing at Lake Otis are scheduled for 1976. 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.

100% City Cost

CIF-2

CAPITAL PROJECT ESTIMATE

(1) Department and Division: Traffic Engineering

(2) Project Title: Traffic Signals

(3) Priority Number: 75:S-15

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(13) Land								
(14) Buildings								
(15) Other Improvements	$1,625,000		$435,000	$300,000	$210,000	$255,000	$200,000	$225,000
(16) Other								
TOTAL								
Estimated Cost by Source of Funds								
Code / Fund Title								
Street Bonds	$1,545,000		$420,000	$255,000	$210,000	$235,000	$200,000	$225,000
State	60,000		10,000	30,000		20,000		
GAAB	20,000		5,000	15,000				
TOTAL	$1,625,000		$435,000	$300,000	$210,000	$255,000	$200,000	$225,000

(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 1/1/75 (24) Estimated Completion Date 12/31/80

(25) Effect on Budget	Years	Man Years	Salaries & Wages	Other Objects	Total Cost	Revenues
List Program(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

1975 Projects:	
7th & "G"	$ 45,000
Tudor & Baxter	20,000
N. Lights & Wesleyan	45,000
Post & Whitney	45,000
1st & Post	45,000
3rd & Cordova	45,000
Various School Signals	60,000
Misc. & Upgrading	130,000
Total 1975	$435,000

1976 Projects:	
N. Lights & Boniface	$ 20,000
N. Lights & Turnagain	20,000
E. 5th & Concrete	30,000
Mt. View & Klevin	50,000
Various School Signals	60,000
Misc. & Upgrading	120,000
Total 1976	$300,000

1977 Projects:	
Providence & University	$ 55,000
36th & Latouche	55,000
Misc. & Upgrading	100,000
Total 1977	$210,000

1978 Projects:	
DeBarr & Turpin	$ 35,000
N. Lights & Baxter	70,000
Misc. & Upgrading	150,000
Total 1978	$255,000

1979 Projects:	
Misc. & Upgrading	$200,000

1980 Projects:	
Misc. & Upgrading	$225,000

Participation, 1975 - 1980:	
City's Share	$1,545,000
State's Share	60,000
G.A.A.B.'s Share	20,000

CIP-2

CAPITAL PROJECT ESTIMATE	(1) Department and Division	(2) Project Title	(3) Priority Number
	Public Works - Engineering	Pedestrian Underpassing on Chester Creek at Lake Otis Pkwy.	75-S16

Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New-Appropriation 1975 (6)	Estimated Requirements 1976 (7)	1977 (8)	1978 (9)	1979 (10)	1980 (11)
(12) Equip. (Moveable)								
(13) Land								
(14) Buildings								
(15) Other Improvements	80,000		80,000					
(16) Other								
TOTAL	80,000		80,000					
Estimated Cost by Source of Funds								
Code / Fund Title								
Street & Storm Sewer Bonds	80,000		80,000					
TOTAL								

(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 12 %.

(23) Estimated Start Date 1/1/76 (24) Estimated Completion Date 10/1/76

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

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

A calvert on Lake Otis allows for pedestrian movement along Chester Creek. This is per the memorandum of understanding signed by the City and State. The costs are based on estimates furnished by the State Highway Department. This structure will also accommodate the Corps of Engineers 100-year project flood, which will allow building construction within the Chester Creek floodplain to be eligible for Federal participation such as FHA and Va guarantee financing. If Lake Otis Parkway becomes a state route this structure will not be constructed at City's cost.

100% City Cost