

CAPITAL IMPROVEMENTS PROGRAM SUMMARY

(1) Department FIRE

(2) Division COMMUNICATIONS

(3) PROJECT TITLE(S)	TOTAL PROJECT COST (4)	TO BE FUNDED (IN THOUSANDS) (5)						(6)	(7)	(8)	(9)	(10)	(11)
		G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER *		19 77	19 78	19 79	19 80	19 81	19 82
1 Area Wide Communica- tions system (pro-rata share)	80.0	80.0						40.0	40.0				
2 New Radio Console and Components	60.0	60.0						60.0					
TOTAL (12)	140.0	140.0						100.0	40.0				
* OTHER SOURCE OF FUNDS (13)			FUNDING (14)										
			General Obligation Bonds					100.0	40.0				
			Revenue Bonds										
			Federal										
			State										
			Other										
			TOTAL					100.0	40.0				

CAPITAL PROJECT ESTIMATE

(1) Department and Division: **FIRE - COMMUNICATIONS**

(2) Project Title: **AREA-WIDE COMMUNICATIONS SYSTEM (Pro-Rata)**

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	80.0		40.0	40.0				
(12) Land								
(13) Buildings								
(14) Other Improvements								
(15) Overhead								
TOTAL	80.0		40.0	40.0				
(16) Source of Funds								
Bonds - _____	80.0		40.0	40.0				
Grants - _____								
Operational _____								
TOTAL	80.0		40.0	40.0				

(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 Planned

(22) Estimated Start Date February 1, 1977

(23) Estimated Completion Date 1979

(24) Project Description and Justification (Continue on Additional Sheets. Same Size) This project provides funding for the Fire Department pro-rata share of a joint project with the Transportation Department to establish a multiple channel radio system capable of covering the entire area of the Municipality Fire Department needs communications over Greater Area, i.e. Girdwood, Eagle River, etc. Radio Alarm Box coverage is low power and inadequate to report in from the entire area. Emergency Medical Service has serious problems losing communications when responding to accidents either direction from town. This would eliminate costly duplicate user systems by consolidating into one system and the costly leased line charges would be eliminated. The proposed system would allow use of low power radio units and eliminate the need for purchase of costly high power units also this would provide a system which can answer the needs of the Municipality for many years. This system could be expanded upon to meet most any future needs by building on it rather than tearing it down and building a new.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE - COMMUNICATIONS

(2) Project Title: NEW RADIO CONSOLE AND COMPONENTS

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 77 (5)	Estimated Requirements in Thousands				
				19 78 (6)	19 79 (7)	19 80 (8)	19 81 (9)	1982 (10)
(11) Equipment (Moveable)	60.0		60.0					
(12) Land								
(13) Buildings								
(14) Other Improvements								
(15) Overhead								
TOTAL	60.0		60.0					
(16) Source of Funds								
Bonds --	60.0		60.0					
Grants --								
Operational								
TOTAL	60.0		60.0					

(17) Gross Floor Area _____ Sq. Ft.

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

(19) Project Status Planned

(20) Architectural and Engineering Fees: _____

(21) Percent of Building Cost _____ %

(22) Estimated Start Date February 1977(23) Estimated Completion Date September 1977

(24) Project Description and Justification (Continue on Additional Sheets. Same Size) This project will provide for Purchase and installation for a communications console. The following reasons render the currently used communications consoles unsuitable for Fire Department use. Space limitations original design criteria did not consider utilizing the increased number of operators or equipment to be housed within the console cabinets. Prior to unifications, radio channelization was adequate, but due to more apparatus and manpower which must be controlled, control of additional transmittal/receiver sites are necessary. There is not adequate electronic equipment provided to expand to a desired level of control. Auxiliary equipment limitations are insufficient space and switching has been provided to allow control of "outside functions", i.e. station alarms, station doors and lights, equipment and personnel status, traffic light control, etc. Interface limitations; original intended use of these consoles did not consider controlling varied manufactures remote equipment. "Home Brew" interface equipment will have to be locally manufactured to facilitate operating Municipally-owned radio equipment. This is not welcomed by fire underwriters. S.C.A.D. Incompatibility; this equipment was never intended to be a part of any form of "Computer aided dispatching." Future plans of industry (Manufactureds) all are using some form of C.A.D. for obvious reasons. Quicker response, better control and record keeping etc. Are all immediate advantages and are the ultimate desire of the department.

CAPITAL IMPROVEMENTS PROGRAM SUMMARY

(1) Department FIRE

(2) Division FIRE SUPPRESSION AND RESCUE OPERATIONS

(3) PROJECT TITLE(S)	TOTAL PROJECT COST (4)	TO BE FUNDED (IN THOUSANDS) (5)						(6)	(7)	(8)	(9)	(10)	(11)	
		G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER *		1977	1978	1979	1980	1981	1982	
1 Upper Rabbit Creek Road Fire Station Prior Year Appr. 225.0	440.0	215.0				75/76 225.0	215.0							
2 New Attack Pumper	25.0	25.0						25.0						
3 Replacement Pumpers (5)	465.0	465.0					90.0		90.0	95.0	95.0	95.0		
4 Dimond Blvd. Fire Station	520.0	520.0					115.0	405.0						
5 New Pumper	90.0	90.0						90.0						
6 New Tanker	50.0	50.0						50.0						
TOTAL (12)														
* OTHER SOURCE OF FUNDS (13)		FUNDING (14)												
		General Obligation Bonds												
		Revenue Bonds												
		Federal												
		State												
		Other												
		TOTAL												

CAPITAL IMPROVEMENTS PROGRAM SUMMARY

(1) Department FIRE

(2) Division FIRE SUPPRESSION AND RESCUE OPERATIONS

(3) PROJECT TITLE(S)	TOTAL PROJECT COST (4)	TO BE FUNDED (IN THOUSANDS) (5)						(6)	(7)	(8)	(9)	(10)	(11)
		G/O BONDS	REVENUE BONDS	FEDERAL	STATE	OTHER *		19 77	19 78	19 79	19 80	19 81	19 82
7 Replacement Chassis for attack pumpers (2)	24.0	24.0									12.0	12.0	
TOTAL (12) Page 1 & 2	1614.0	1389.0				225.0	420.0	570.0	90.0	107.0	107.0	95.0	
* OTHER SOURCE OF FUNDS (13)		FUNDING (14)											
Rabbit Creek Fund Balance appropriated in 75/76 \$225,000		General Obligation Bonds					420.0	570.0	90.0	107.0	107.0	95.0	
		Revenue Bonds											
		Federal											
		State											
		Other											
		TOTAL					420.0	570.0	90.0	107.0	107.0	95.0	

CAPITAL PROJECT ESTIMATE

(1) Department and Division: Fire Operations

(2) Project Title: Upper Rabbit Creek Road Fire Station

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19__77 (5)	Estimated Requirements in Thousands				
				19__78 (6)	19__79 (7)	19__80 (8)	19__81 (9)	19__82 (10)
(11) Equipment (Moveable)	3.0	-0-	3.0					
(12) Land	42.0	42.0						
(13) Buildings	325.0	178.0	147.0					
(14) Other Improvements	65.0		65.0					
(15) Overhead	5.0	5.0						
TOTAL	440.0	225.0	215.0					
(16) Source of Funds								
Bonds -- _____	215.0		215.0					
Grants -- _____								
Operational _____	75/76	75/76						
_____	225.0	225.0						
TOTAL	440.0	225.0	215.0					
(17) Gross Floor Area <u>5000</u> Sq. Ft.				(20) Architectural and Engineering Fees: <u>32.5 (included)</u>				
(18) Building Cost Per Sq. Ft. <u>\$66.00</u>				(21) Percent of Building Cost <u>10</u> %				
(19) Project Status <u>Planning pending approval of revised CIP plan</u>				(22) Estimated Start Date <u>Land purchase July, 1976 - Design Oct., 1976</u>				
				(23) Estimated Completion Date <u>September, 1977</u>				
(24) Project Description and Justification (Continue on Additional Sheets. Same Size)								
<p>This project will provide a new fire station to be located in the vicinity of Upper Rabbit Creek Road and the intersection of Clark Road. The structure presently occupied by the Fire Department at the intersection of Rabbit Creek Road and Old Seward Highway is totally inadequate to meet current or future needs. The terrain rises steadily to the east, the area of greatest fire potential and high risk. The steep grade precludes timely response of heavy fire apparatus as vehicle must stay in low range gears for the entire distance. Vehicles responding from desired area will travel downhill to the east and south and have relatively level terrain for north bound response. Additionally, the present Rabbit Creek Station is not owned by the Municipality, but by the Rabbit Creek Volunteer Fire department, Inc. Occupancy of this structure is authorized via written agreement. Vacating this structure will enable the RCVFD to permit use of the entire structure as a community center, whereas present usage for this purpose is restricted to the upper floor, the extremely crowded conditions of this structure and lack of adequate living quarters for fire personnel contribute to low moral of assigned fire fighters. As envisioned by the Fire Department, relocation of this station coupled with construction of the O'Malley and Huffman Road Stations will provide ideal fire defense posture for the Hillside, Rabbit Creek, Seward Highway, Klatt Road and Ocean View Areas. The entire area will be bracketed by manned engine companies with reduced response time being realized for all portions of the protected area.</p>								

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE - OPERATIONS

(2) Project Title: NEW ATTACK PUMPER

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	25.0			25.0				
(12) Land	-0-			-0-				
(13) Buildings	-0-			-0-				
(14) Other Improvements	-0-			-0-				
(15) Overhead	-0-			-0-				
TOTAL	25.0			25.0				
(16) Source of Funds								
Bonds - FIRE	25.0			25.0				
Grants -								
Operational								
TOTAL	25.0			25.0				

(17) Gross Floor Area N/A Sq. Ft.
 (18) Building Cost Per Sq. Ft. \$ _____
 (19) Project Status Planning-Pending Approval
 of Revised CIP

(20) Architectural and Engineering Fees: _____
 (21) Percent of Building Cost _____ %
 (22) Estimated Start Date January 1978
 (23) Estimated Completion Date May 1978

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

This will provide the third 4WD unit for use in fire suppression efforts in areas of the Municipality having extensive, unimproved roadways and difficult terrain. Vehicle will provide improved capability for combatting structural and/or Brush Fires as well as foam capability for support of rescue efforts for automobile accidents.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE - OPERATIONS

(2) Project Title: REPLACEMENT PUMPERS (5)

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	465.0		90.0		90.0	95.0	95.0	95.0
(12) Land								
(13) Buildings								
(14) Other Improvements								
(15) Overhead								
TOTAL	465.0		90.0		90.0	95.0	95.0	95.0
(16) Source of Funds								
Bonds - FIRE	465.0		90.0		90.0	95.0	95.0	95.0
Grants -								
- Operational								
TOTAL	465.0		90.0		90.0	95.0	95.0	95.0

(17) Gross Floor Area _____ Sq. Ft.

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

(19) Project Status Planned

(20) Architectural and Engineering Fees: _____

(21) Percent of Building Cost _____ %

(22) Estimated Start Date January 1977(23) Estimated Completion Date January 1983

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

This project provides for phased replacement of fire apparatus which has (or will) reach life expectancy during the projected period. At the present time, eight (8) pumpers exceed 20 years of age. Acquisition of new apparatus as programmed will permit replacement of those vehicles which are least dependable and/or oldest. To meet our goal of providing the best possible fire defenses and maintaining favorable insurance rates, it is imperative that efforts be continued to maintain a modern and effective firefighting vehicle fleet.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE - OPERATIONS

(2) Project Title: DIMOND BLVD. FIRE STATION

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	5.0			5.0				
(12) Land	100.0		100.0					
(13) Buildings	340.0			340.0				
(14) Other Improvements	60.0			60.0				
(15) Overhead	15.0		15.0					
TOTAL	520.0		115.0	405.0				
(16) Source of Funds								
Bonds - <u>FIRE</u>	520.0		115.0	405.0				
Grants - <u>Operational</u>								
TOTAL	520.0		115.0	405.0				

(17) Gross Floor Area 5000 Sq. Ft.(18) Building Cost Per Sq. Ft. \$ 68.00(19) Project Status Planned(20) Architectural and Engineering Fees: 40,800 (included)(21) Percent of Building Cost 12 %(22) Estimated Start Date Land Purchase 1977 - Construction 1978-79(23) Estimated Completion Date March 1979

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

This project will provide for construction of a fire station in the vicinity of Dimond Blvd. and "C" Street. This station will provide fire protection capability for the anticipated industrial growth of the old Seward Highway Alaska Railroad area south of Dimond. Extension of the Minnesota by-pass will provide access to other high-density areas to the north. Construction of this station will complete the overall spacing of fire stations south of Tudor Road for a period of 10-15 years if growth patterns conform to predictions. This station is anticipated to be a pivotal station, providing reduced response time to property within it's "first-due" area. Additionally "second-due" response will be provided for the highly developed areas of Hillside - Jewel Lake - Spenard and Tudor sections of the Municipality. The proposed location will also serve as an ideal staging area for extended brush fire operations for the southern portion of the Municipality.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE OPERATIONS

(2) Project Title: NEW PUMPER

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	90.0			90.0				
(12) Land	-0-			-0-				
(13) Buildings	-0-			-0-				
(14) Other Improvements	-0-			-0-				
(15) Overhead	-0-			-0-				
TOTAL	90.0			90.0				
(16) Source of Funds								
Bonds — <u>FIRE</u>	90.0			90.0				
Grants —								
- Operational								
TOTAL	90.0			90.0				

(17) Gross Floor Area _____ Sq. Ft.
 (18) Building Cost Per Sq. Ft. \$ _____
 (19) Project Status Planning

(20) Architectural and Engineering Fees: _____
 (21) Percent of Building Cost _____ %
 (22) Estimated Start Date February 1978
 (23) Estimated Completion Date December 1978

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

This pumper will be required for service in the Dimond Blvd. fire station (project-21). Funding will provide for purchase of a 1500 gallon per minute, Class "A" pumper with equipment required to provide fire suppression capability for area served.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE OPERATIONS

(2) Project Title: NEW TANKER

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	50.0			50.0				
(12) Land	-0-			-0-				
(13) Buildings	-0-			-0-				
(14) Other Improvements	-0-			-0-				
(15) Overhead	-0-			-0-				
TOTAL	50.0			50.0				
(16) Source of Funds								
FIRE	50.0			50.0				
Grants --								
Operational								
TOTAL	50			50				

(17) Gross Floor Area _____ Sq. Ft.

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

(19) Project Status Planning

(20) Architectural and Engineering Fees: _____

(21) Percent of Building Cost _____ %

(22) Estimated Start Date February 1978(23) Estimated Completion Date September 1978

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

This tanker will be required to support fire suppression activities by the Dimond Blvd., Station. Extensive portions of the south Anchorage area do not have water distribution systems to support fire suppressions, making it necessary to transport needed water to the fire scene. Insurance ratings established by the Insurance services organization mandate the ability to provide specific amounts of water for a given length of time. Established operations for areas requiring tanker service provides for tanker support from two or more stations. For this area of Anchorage, each fire station does have a tanker assigned. Failure to provide a tanker in this station will seriously detract from the overall effectiveness of this established operational procedure.

CAPITAL PROJECT ESTIMATE

(1) Department and Division: FIRE OPERATIONS

(2) Project Title: REPLACEMENT CHASSIS FOR ATTACK PUMPERS (2)

Estimated Cost	Estimated Total Cost (3)	Approp. Prior Years (4)	New Appropriation 19 <u>77</u> (5)	Estimated Requirements in Thousands				
				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)	24 .0					12.0	12.0	
(12) Land								
(13) Buildings								
(14) Other Improvements								
(15) Overhead								
TOTAL	24 .0					12.0	12.0	
(16) Source of Funds								
Bonds - _____	24 .0					12.0	12.0	
Grants - _____								
Operational								
TOTAL	24 .0					12.0	12.0	

(17) Gross Floor Area _____ Sq. Ft.

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

(19) Project Status Planned

(20) Architectural and Engineering Fees: _____

(21) Percent of Building Cost _____ %

(22) Estimated Start Date March 1, 1980(23) Estimated Completion Date June 30, 1981

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

Funds will be utilized to purchase 1-ton, 4-wheel-drive chassis to replace chassis on 1976 model attack pumpers. Vehicles are designed to allow transfer of hose body, tank and fire pump to a new chassis at a savings of approximately \$12,000 as compared to purchase price of new unit (\$25,000). Cost of removing and re-installing the body and other compartments will be borne by operational budget. Work will be accomplished by the fire department maintenance section.