ANNUAL REPORT OF THE ALASKA ROAD COMMISSION FISCAL YEAR 1930

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REPORT UPON THE CONSTRUCTION AND MAINTENANCE OF MILITARY AND POST ROADS, BRIDGES AND TRAILS; AND OF OTHER ROADS, TRAMWAYS, FERRIES, BRIDGES, TRAILS, AND RELATED WORKS IN THE TERRITORY OF ALASKA

TWENTY-SIXTH ANNUAL REPORT

1.930

PART II

OPERATIONS

BOARD OF ROAD COMMISSIONERS FOR ALASKA

> JUNEAU, ALASKA 1930

Alaska Road Commission. Juneau, Alaska, October 1, 1930.

The Honorable, The Secretary of War (Through The Chief of Engineers, United States Army) Washington, D. C.

Ь.:

In compliance with the provisions of Sec. 2 of an Act of Congress approved January 27, 1905, as amended by Act approved May 14, 1906, I have the honor to submit the attached report of the operations of the Board of Road Commissioners for Alaska for the fiscal year ending June 30, 1930:

Maj. Douglas H. Gillette, Corps of Engineers, was relieved as engineer officer of the Commission on February 15, 1930. The undersigned was appointed engineer officer in addition to his duties as president and served as such to include June 24, 1930.

Maj. Layson E. Atkins, Corps of Engineers, reported for duty June 24, 1930, and has served since June 25, 1930 as engineer officer of the Commission.

First Lieut, Philip R. Garges, Corps of Engineers, assumed the duties of secretary and disbursing officer on August 1, 1929, relieving First Lieut. Emerson C. Itschner, Corps of Engineers, who remained on duty with the Commission to include August 23, 1929. First Lieut. James C. Christiansen, Corps of Engineers, succeeded Lieut. Carges as secretary and disbursing officer on February 1, 1930. Lieut. Garges remained on duty with the Commission to include April 4, 1930.

First Lieut. Emerson L. Cummings, Corps of Engineers, remained on duty with the Commission to include August 29, 1929.

Second Lieuts, Leland B. Kuare and Raymond B. Oxrieder, Corps of Engineers, reported for duty August 19, 1929 and have remained on duty with the Commission throughout the remainder of the year.

The duties of this Commission, whose members also serve on river and harbor work under the Chief of Engineers, have required close cooperation with Territorial and Federal agencies. This cooperation has been accomplished without friction and has resulted in efficient execution of public works and economical expenditures of Federal and Territorial funds. These desirable results are attributable in part to the authority vested in the Commission by law to handle its business "of its own motion" and make decisions in Alaska.

The accomplishments during the past year are shown in the report.

Respectfully.

MALCOLM ELLIOIT,

- Major, Corps of Engineers, U. S. Army, ---- President.

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		"
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·		

REPORT UPON THE CONSTRUCTION AND MAINTEN-ANCE OF MILITARY AND POST ROADS, BRIDGES, AND TRAILS, ALASKA; and of other Roads, Tramways, Ferries, Bridges, Trails and Related Works in the Territory of Alaska.

# REPORT OF THE BOARD OF ROAD COMMISSIONERS FOR ALASKA.

Malcolm Elliott	resident.
D. H. Gillette Engineer	Officer.
J. G. Christiansen Secretary and Disbursing	Officer.

For description of Project Under This Commission see Part I of this Report, contained in Annual Report of the Chief of Engineers, United States Army.

### STATUTORY AUTHORITY.

An act to provide for the construction and maintenance of roads

\* \* \* \* in the District of Alaska, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That all monies derived from and collected for liquor licenses, occupation or trade licenses, outside of the incorporated towns in the Territory of Alaska, shall be deposited in the Treasury Department of the United States, there to remain as a separate and distinct fund, to be known as the "Alaska Fund" and to be wholly devoted to the purposes hereinafter stated in the Territory of Alaska \* \* \* \* and all the residue (65% of total fund) of said fund shall be devoted to the construction and maintenance of wagon roads, bridges, and trails in said Territory \* \* \* \* \*

SECTION 2. That there shall be a board of road commissioners in said district, to be composed of an engineer officer of the United States Army to be detailed and appointed by the Secretary of War, and two other officers of that part of the army stationed in said district and to be designated by the Secretary of War. The said engineer officer shall, during the term of his said detail and appointment, abide in said district. The said board shall have the power, and it shall be their duty, upon their own motion or upon petition, to locate, lay out, construct, and maintain wagon roads and pack trails from any point on the navigable waters of said district to any town, mining or other industrial camp or settlement, or between

any such towns, camps, or settlements therein, if in their judgment such roads or trails are needed and will be of permanent value for the development of the district; but no such read or trail shall be constructed to any town, camp, or settlement which is wholly transitory or of no substantial value or importance for mining, trade, agricultural, or manufacturing purposes. \* \* \* \* \* In case no responsible and reasonable bid can be secured, then the work may be carried on with material and men procured and hired by the board. The engineer officer of the board shall in all cases supervise the work of construction and see that the same is properly performed. \* \* \* \* \* It shall be the duty of said board, as far as practicable, to keep in proper repair all roads and trails constructed under their supervision, and the same rules as to the manner in which the work of repair shall be done, whether by contract or otherwise, shall govern as in the case of the original construction of the road or trail. The cost and expense of laying out, constructing, and repairing such roads and trails shall be paid by the Secretary of the Treasury, through the authorized disbursing officer of the board, designated by the Secretary of War, out of the road and trail portion, of said "Alaska Fund" upon vouchers approved and certified by said board. \* \* \* \* \* (Act of January 27, 1905, as amended by Acts of May 14, 1906 and March 3, 1913.)

Provided, That hereafter, so long as the construction and maintenance of "Military and Post". Roads in Alaska, and of other roads, bridges, and trails in that Territory shall remain under the direction of the Secretary of War, he be authorized to submit such estimates for the consideration of Congress as are in his judgment necessary for a proper prosecution of the work. (Act of July 9, 1918). Hereafter when an appropriation for this purpose for any fiscal year shall not have been made prior to the 1st day of March preceding the beginning of such fiscal year, the Secretary of War may authorize the Board of Road Commissioners to incur obligations for this purpose of not to exceed 75 per centum of the appropriation for this purpose for the fiscal year then current, payment of these obligations to be made from the appropriation for the new fiscal year when it becomes available. (Act of Feb. 12, 1926).

Provided, That the Secretary of War is hereby authorized to receive from the Territory of Alaska, or other source, such funds as may be contributed by them to be expended in connection with funds appropriated by the United States for any authorized work of construction, repair, and maintenance of roads, bridges, ferries, trails, and related works in the Territory of Alaska, and to cause such funds to be deposited to the credit of the Treasurer of the United States, and to expend the same in accordance with the purpose for which they were contributed. (Act of June 30, 1921).

#### CURRENT APPROPRIATION.

Construction and Maintenance of Roads, Bridges, and Trails. Alaska: For the construction, repair, and maintenance of roads, tramways, ferries, bridges, and trails, Territory of Alaska, to be expended under the direction of the Board of Road Commissioners described in Section 2 of an Act entitled "An Act to provide for the construction and maintenance of roads, the establishment and maintenance of schools, and the care and support of insane persons in the District of Alaska, and for other purposes," approved January 27, 1905, as amended by the Act approved May 14, 1906, and to be expended conformably to the provisions of said Act as amended to be immediately available. (Act of May 28, 1930).

### OPERATIONS DURING THE FISCAL YEAR.

The work during the fiscal year ending June 30, 1930, was executed under appropriations for "Construction and maintenance of roads, bridges, and trails, Alaska, 1929-1930" approved February 28, 1929, and "1930-1931," approved May 28, 1930, and from receipts from the "Alaska Fund," Act of Congress approved January 27, 1905, as amended by Act approved May 14, 1906. Work was also done which was covered by funds contributed by the Territory of Alaska, the National Park Service and others, Act of Congress approved June 30, 1921.

The work in the last fiscal year was largely directed to maintaining the existing system and the improvement of the more important routes for the use of motor vehicles. New construction was confined to a few major projects upon which work has been in progress for several years,

The work accomplished during the fiscal year may be summarized as follows:

New construction: 37 miles road, 38 miles trail, 780 linear feet bridges over 60 ft. span, 11 airplane landing fields, and 14 shelter cabins.

Improvement: 58½ miles road reconstructed, 66% miles road surfaced, 2 miles Tolovana tramway rebuilt and numerous small bridges and culverts rebuilt.

Maintenance: 1342½ miles road, 85 miles tramway, 905¼ miles sled road, 4277¼ miles permanent trail, 314 miles temporary flagged trail, 736 miles telephone lines, 29 airplane landing fields and 40 shelter cabins.

Total for all classes of work: 7126% miles consisting of 1504% miles of road, 87 miles tramway, 905% miles sled road, 4315% miles of permanent trail, 314 miles temporary flagged trail.

The more important roads upon which new construction was performed were the McCarthy-Nizina, Chatanika-Circle, Mount McKinley National Park, Gulkana-Chistochipa, Long-Poorman, Haines-Chilkoot, Kasilof, Iliamna, Circle Hot Springs and Nome-Council. The bridge renewal program was continued. The more important structures upon which new construction or extensive repairs were performed included bridges across Chistochina River, Noyes Slough and East Fork.

The important Richardson Highway was maintained open during the entire season. Improvement to new standard was continued and except for a few short sections this road is now in excellent condition for auto traffic. As a result of the rapid improvement both local and tourist travel has continued to increase. During the 1930 season tourist travel began in June.

Surfacing of the Steese Highway was continued. As a result of the improvement traffic over this route continued to increase. During the 1930 season travel began over this route in May.

Construction of the road from Gulkana on the Richardson Highway to Chisana, through the mineralized belt north of the Wrangell Mountains was continued. This is now the major new project under construction.

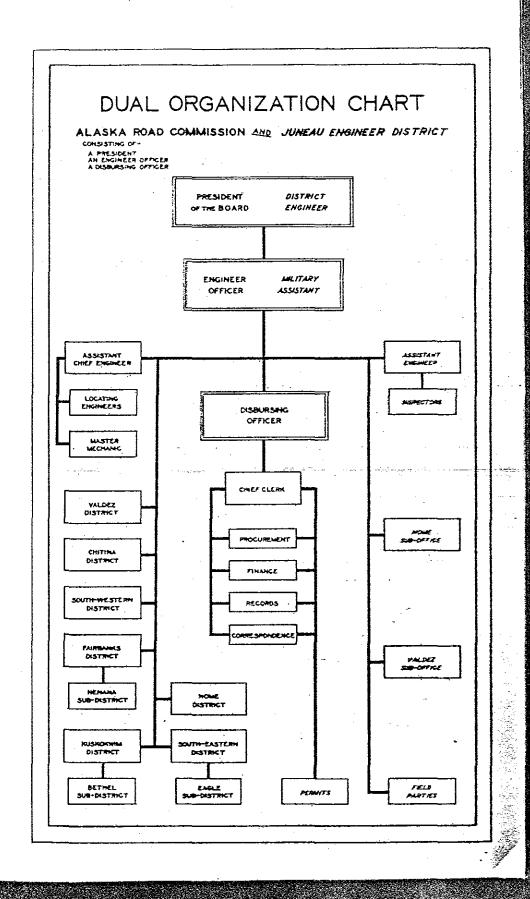
Work was started late in 1929 and an unusual amount of precipitation during the summer greatly retarded the progress of the work

The roads constructed by the Commission, originally intended for wagon traffic are now generally of higher standard suitable for automobiles and light trucks. The demand for roads of this type is increasing, and effort is made in each case to provide a gravel surface for the road.

### ORGANIZATION.

The headquarters of the Commission are located at Juneau; a sub-office is maintained at Washington, D. C., as required. The Territory is divided into seven districts and three sub-districts with boundaries as shown on the maps accompanying the district reports herein.

Each district is in charge of a Superintendent who supervises the work of the local foremen. The members of the organization are experienced men who in nearly all cases have been with the Commission many years.



### MACHINERY AND EQUIPMENT.

The following additional equipment was purchased during the fiscal year:

- 17 Auto Trucks, Ford, 1-yd. dump.
- 4 Auto Trucks, Ford, 11/2-ton freight.
- 5 Auto Trucks, Ford, light cargo.
- 2 Compressors, air, portable.
- 4 Graders, tractor-drawn.
- 4 Jackhammers.
- 4 Maintainers, road, tractor-drawn.
- 4 Mowers, highway.
- 2 Plows, reversible backfiller attachment for 30 tractor.
- 9 Scrapers, automatic Fresno.
- 1 Shovel, gas, 1/3-yd.
- 8 Tractors, Caterpillar 30.
- 1 Tractor, Caterpillar 60.

The high cost of labor has made necessary the prosecution of as large a part of the work as possible with mechanical equipment.

The Commission is now well equipped to handle engineering construction anywhere in the Territory. Its major items of equipment include the following:

- 2 Auto Trucks, Dodge.
  - 123 Auto Trucks, Ford.
  - 40 Auto Trucks, G. M. C.
  - 1 Auto Truck, Pierce Arrow.
  - 1 Auto Truck, White.
  - 7 Boilers, steam.
  - 1 Boiler, piledriver.
  - 2 Cars, gasoline section.
  - 8 Cars, roller bearing push.
  - 4 Compressors, air, portable.
  - 2 Crushers, stone.
  - 1 Drum, hoisting.
  - 30 Drags, road.
  - 1 Drag, planer.
  - 2 Drag Lines, gasoline.
  - 2 Derricks, motor.
  - 2 Ditchers, road.
  - 1 Engine, donkey.
  - 6 Engines, hoisting.
  - 34 Graders, road, tractor drawn.
  - 12 Graders, road, horse drawn.
  - 9 Graders, power.

- 1 Hoist, Allison.
- 10 Jackbammers.
- 4 Levels, surveying.
- i Leader, bucket, power driven,
- 1 Leader, belt conveyor, portable.
- 2 Lecomotives, gasoline.
- 3 Machines, mowing, horse drawn,
- 8 Machines, mowing, tractor attachment.
- 12 Maintainers, waster drawn.
- 5 Priedrivers, complete.
- 49 Ploas.
- 2 Plows, reversible backfiller attachment for 30 tractor.
- 1 Plow, snow, lateral resary type.
- 8 Rollers, road.
- 3 Saws, power driven.
- 1 Sawmill, portable.
- 1 Scariffer.
- 58 Scrapers, slip.
- 5 Scrapers, wheel.
- 1 Scraper, self-leading, tractor drawn.
- 14 Scrapers, Fresno.
- 16 Scrapers, automatic, tractor drawn.
- 1 Shovel, 4-yd., steam.
- 7 Shovels, 4-rd. gasoline
- 47 Sieds, boo.
- 29 Tactors, Caterpillar 30.
- 4 Tractors, Caterpillar 60.
- 5 Tractors, Holt.
- 1 Tractor, Case.
- 3 Tractors, Fordson, crawler track,
- 11 Tractors, Fordson.
- 30 Trailers, Highway.
- 7 Transits, surreying.
- 71 Wagons.
- 4 Welding Outilis.
- 14 Winches, hand,

## PROGRESS OF THE WORK.

The high scale of wages and supplies in the Territory is a large element in the cost of this work. The rate paid for labor varies from \$3.50 to \$6 per day with beard for common labor. The cost of subsistence and forage is also correspondingly high. Besides these high costs, the nature of the work in Alaska adds to the cost in a way to make comparisons with road work in the United States difficult. In the roads built here the cruising, clearing, grubbing and construction of the road includes all work done upon the roads in the setfled parts

if the United States from pioneer days. Even with this the mileage

In the classification of the Commission, roads are any roads meaned grubbed, ditched, graded, and drained sufficiently to accommodate wagon traffic. Light motor vehicles are now using these roads in increasing numbers. This requires a gravel surface at an increased first cost, but with an eventual saving in annual maintenance charges.

Sled roads are cleared and grubbed like wagon roads, but not graded. They are drained only sufficiently to prevent their destruction by the summer rains. Their wearing surface is of snow. Double bob-sleds, drawn by two, four or more horses haul heavy loads over these roads as well as over the wagon roads in winter time. During the past few seasons, caterpillar tractors have been successfully used during the winter time, and such traffic is expected to increase.

Trails include any construction less than the above, suitable for dog-sleds or single horse-drawn double-ender in winter and pack trains in summer. Except where frozen river surfaces are used some work is always necessary to permit the use of dog teams.

Flagged trails represent cut-offs across frozen lakes, arms of the sea. etc. The marks are necessary to prevent travelers from getting lost in bad weather.

The growth of the road system is shown in the diagram facing page 42 of this report. Only net increases are shown as the short sections abandoned from time to time because of disuse are not included. The following table summarizes the status of the work to date:

STATUS -	<del> </del>	——М П	LEAGE-		
Dec	Sled	fri 11	Ø-1-1	Y11 1	Grand
Road 1929 Report1,031	d Road 636	Trail 3,223	Total 4.890	Flagged	Total 5.602
ADDITIONS:	000	0,220	.,0.	•	
New Mileage 755	4 81914	5,144	6,719		6,719
Reclassified 170	256 1/2	80	5061/2		5061/2
GRAND TOTAL1,956	4 1.711%	8.447	12.11515	712	12.8271/2
DEDUCTIONS:				•	·
Transferred to other		•			
Bureaus 116		45 1/2	17114	*****	17134
Reclassified 33	<b>½</b> 173½	299 <del>1/</del> 2	506½		· 506½
Abandoned or dropped account duplication of					
routes99	1251/2	918	1,1421/2	*****	1,1421/2
NET TOTAL1,707	4 1,403%	7,184	10,29514	712	11,0071/4
*—Includes 87 miles tra					
No work 1930 1155		2,86834	3,483	398	3,881
Work 19301,5915	¥ 905¥	$4,315 \frac{1}{4}$	6,81214	314	7,1264

From the above table it will be noted that the present system aggregates 11,007% miles, consisting of 1,620% miles of road, 87 miles

of tramroad, 1,403% miles of sled road, 7,184 miles of trail and 712 miles of temporary flagged trail. The net gain in mileage for the seven year period has been 5,405% miles, including 589% miles of road, 37 miles of tramroad, 767% miles of sledroad and 3,961 miles of trail.

During the past fiscal year the expenditures were distributed over the following mileage:

	Sted		Flagged	
Road	Road	Trail	Trall	Total
85 ¼		23		88%
24				211
	28	622		648
				100
	-	385		6251/2
469%	313	161		9431/4
133 14	36954	571		1,0734
23914	331/2	17214		44514
7644	6214	609		74734
24314	23	1,563	314	2,24334
,591%	96514	4,31514	314	7,1284
	24 100 2494 469% 1834 289% 764 2434	Road Road 6514 78 24 26 100 26 100 26 100 313 1334 3694 1334 3694 1334 3334 1664 624 2434 23	Road         Road         Trail           551/2         23         23           24         78         109           26         622         100           2101/2         385         385           459/2         313         161           1331/2         389/4         571           238/3         35/4         1724/4           76/4         62/4         609           243/4         23         1,663	Road         Road         Trail         Trail           551/2         23

The Commission has expended the following funds since the beginning of road and trail development in the Territory:

F.Y.		W. D. Acts	Alaska Fund	Other Funds*	Total
1995			\$ 28,009,00	3	28,000,00(a)
13/75		113,172.09	57,420.77		175,592,86(a)
1957		197,330,91	148,814.79		346,745,70(b)
13/3		244,857.18	120,772,72		365,629.90(b)
29/19		236,674,97	146,971.93		383,646,89(b)
1319		237,498,50	102,898,29		340.396.79(b)
1311	····	160,000.00	166,777.95		266,777.95
2912					317,406,07
1312			17,052.23(c	)	17,052.23
1913		125,019,91	238,117.56		353,128.47
1314	- <u></u>	153,174,43	170,689.37		323,862.80
1915		126,852.28	157,915.84		284,768.13
1916		165.911.73	135,708.89	<del></del>	300,720.62
1917		509,031.75	75,716.1a		576, 747.90
1913		325,000.00	272,020.18	145.20	597,165.38
1319		113,551.95	52,372.31		299,024.26
1930		132,426.73	124,992.96	101,134.56	358,604.25
1921		350,090,00	218,247.21	29,551.98	666,799.19
1322		126,897.34	173,029.19	83,411.15	483,247.68
1923		555.613.67	34,398.23	150,079.59	740,082,49
1924		730,428.17	67,683.67	138,000.81	936,107.65
1325		775.665.62	168,513.01	194,164.61	1,138,347.64
1326		1,013,577.53	115,035.11	182,705.05	1,311,317.69
1927		. 889,443.65	207,909.20	119,814.04	1,317,166.89
1928		860,192.90	134,593.11	253,882.17	1,253,668.18
1929		997,297.64	134,371.66	\$15, <del>1</del> 94.61	1,447,163,91
1930		775,40 <del>6.</del> 36	138,542.93	342,401.26	1,256,349,65
			<del></del>		

TOTALS \_\_\$16,433,324.29\*\* \$3,566,870.84\*\*\* \$1,984,828.03 \$15,985,521,16

<sup>(</sup>a)—To October 31st.
(b)—To September 30th.
(c)—U. S. Treasury Adjustment.

\*—Other Funds—Includes the following expenditures from other appropriations:

		. Increase of .	Quartermas		National Pa	
	F.Y.	Compensation	Ceneral	Contributed	Service	
	1918	\$ 145.20	<b>F</b>	*	\$	
	1930		·	101,184.56	·	
ŀ	1921	910.00		97,611.98		
	1932	4,322.09	***********	79,039.06	B	
	1923	29,857.72		121,313.87	W	
	1924	45,675.36		92,325.45	TETTATOTTO	
	1925	15.136.08	300.00	98.768.53	80,620,00	

1)26 1)37 1)35 1)35 1)39 1)39	290.17 812.00 792.83 1,666.00 1,499.80	132.414.85 103.001.10 193.089.34 249.494.61 180,080.15	50,000.00 16,000.94 60,000.00 65,000.00 160,821.31
TOTALS\$95,076.45(a)	\$4,634.80	\$1,453,212.53(b)	\$431,842.25(c)
(a)—Includes refunds of (b)—Includes refunds of (c)—Includes refunds of	\$16.95. \$10.571.43. \$20.94.		
**Total War Department appro Balance unexpended July 1,	1930	652,521.34	•
Amount expended	ursement	3,976.19 1920 420.82	\$10,410,578.66
173	corrections i	15,548.62	23,245.63
Total expenditures Total Alaska Fund Balance unexpended July 1, 1			910 (00 COL 00
Amount expended			
Acc Sales, relunds, etc., 1921-	1929	19,211.52	130,182.29
Total expenditures			\$ 3,566,870.84
These expenditures are sun	marized as	101:0W5:	_
FEDERAL APPROPRIATIONS:  Alexa Fund, 1905-1929 War Dept Acts, 1905-1929 Increase of Compensation, 191 E. S. Treasury Adjustment, 1 Alaska Fund, 1921-1939 War Dept Acts 1921-1939 Increase of Compensation, 1922-1939 Quartermaster General, 1923-1931 National Park Service, 1925-19 Lowell Creek	5-1920 912 1-1925 1930 30	\$ 2,157,491.19 3,959,397.01 145.20 17,952.23 1,392.237.42 7,933.946.16 94,931.25 4,694.80 431,342.25 99,481.12	
. Total		\$14,532,308.63	•
CONTRIBUTED FUNDS:		P 161 194 EC	
Territory of Alaska, 1921 Territory of Alaska, 1921-1939 Miscellaneous, 1922-1930			
		\$ 1,453,212.53	
Grand Total		\$15,985,521.16	,
In addition to the above			
Treasury, the Commission has	•	-	
lowing funds disbursed by other	er agencies	for road and t	rau develop-
Boad tax, labor, and miscellaneous Department of Agriculture, 1920 Quartermaster General, 1991-1945 Chief of Engineers, 1994-1945 Territorial Funds and Forest Reterritorial Divisional Commission Territorial Divisional Commission Seward Peninsula Tramway, 1924 Tolovana Tramway, 1924	venues Prior pers, 1921-193	to 1921	\$ 209,000.00 202,702.67 100,000.00* 34,631.73* 684,239.64** 194,939.60 1,000.00 24,014.00 6,425.00

### 4 ANNUAL REPORT ALASKA ROAD COMMISSION.

Miscellaneous, 1926-19	9	312.72 19,849.50 2,500.00

The following table gives the total amount expended on the various subprojects up to June 30, 1930, from all sources. It does not include the first four items in the above table under "Supervised Funds:"

INTAL I
REPORT
ALASKA ROAD
ROAD
COMMISSION.

No.		redoral Appropriations and 'Alaska rand'	Contributed Punds	Supervised Funds	Grand Potal	FT. 12 & D. 1987 THE STATE	Maintenance
1*	Prince of Wales Island	\$ 55,854.28	\$ 7,000298	\$	\$ 63,850.26	\$ 42,811.86	\$ 21,038,40 12,300,30
2A *	Auk Bay Extension	44,286.13	14,870,66	1,247,64	60,404,43 15,150,21	$\frac{48,104.13}{7,505,64}$	7,644,67
211* 2(1*	Mendenhall Glacier Extension Flucte River Extension		a in ingappendan again dan pangkahan	2.305.75	18.362.32	15,002.32	3,260,00
21)*	Juneau-Duck Creek			9,927.23	109,658,27	78,407.72	31,260,66
210	Gastineau Channel Bar		926:00	28,621,83	29,547.83	28,621,83	926,00
$\tilde{2}1$	Gold Creek Bridge, Juneau.			2,156.75	2,156.75	2,156.75	*************
20	Alaska Juneau Mine Trail		§;	831.66	831,66	831.06	*************
211	Juneau Wharf	23,166.31	7,050,00	************	30,216,31	30,216.31	**************************************
. 3A	Haines-Wells		44,087,43	**************	232,948.00	123,629.99	109,318.01
3B	Pleasant Camp Extension		72,869,80	**************	163,509.09	142,194.20 38,354.90	21,314.89 9,279,73
3C	Porcuping Extension		1,040,00 10,790,00	16,268.16	47,634.63 30,028.43	18,807,46	11,220.97
310	Haines-Mud Bny		10,663,82	6,962.74	17,626,06	16.756.56	869.50
316	Halnes-Jones Point		225.00	2,093.45	2,318,45	1,553.45	765,00
4.4*	Donnelly-Washburn			2,700.00	33,460.06	18,865,40	14,694.66
4AA	Richardson-Democrat Creek.		1,820:59	500,00	2,320.59	2,320.59	
<b>4Β</b> Λ.	Valdez-Ptarmigan Drop			*************	974,748.82	470,556.55	504,192.27
4BB	Ptarmigan Drop-Ernestine		************	************	439,896.81	171,227.56	268,669.25
4C	Ernestine-Willow Creek			P4	354,971.63	177,499.85	177,471.78
4D	Willow Creek-Gulkana			**********	579,431.63	246,394.58	333,037.05
4 L	Gulkana-Sourdough			******************	364,551.41	144,173.70 136,268,29	220,377.71 165,741.04
	Sourdough-Mile 168				301,999.33	136,208.29	315,085,76
1(	Mile 168-Delta lityer	473,701.65	و بالإنهابات ،	Acres Decree 44 V	$\frac{473,701,66}{678,376,91}$	269,965,60	418,411.31
4111 4112	Bella River-Rapids Rapids-Grundler		om in hillion	and the section is a section	352,254.24	120,386,12	231,868.00
4112	Grundler-Richardson				343,246,60	121,294,00	221,052,60
4.5	Richardson-Salchaled				439,878,34	216,548.01	224,360,33
4JA	Lake Harding Road				4,763,40	3,100.76	1,662,66
416.	Salchakot-Pairbanks		anner gran danie fil in	consequence dispose	626,788.61	254,062,87	270,826.74
4KA	Salcha Bridge	69,537.02			69,637.02	50.370.67	19,166.35
5.**	Ester-Dunbar	. 19,405.18	محجوا والمشاب وجيب	(#1,1,1	19,405.18	12,624.18	6,781,00
TOA	Dunbur-Tunana			*************	87,239.22	50,269.69	36,969.53 106.60
L513	Nenena-Campbells		180.00	*****************	2,025.61	1,919.01 5,766.53	1,734,90
5C	Fish Lake-American Creek	. ,	7,501.43	*************	7,601.43	0,700.03	1,454,30
61)	American Creek Aviation	•	550.00	390.00	940.00	940,00	
510	Tanana Aviation Field		3.899196	030,000	3,899,96	3,899,96	
512	Illinols Crook-Morni Creek		er kan bet er er		1,178.89	1.178.89	1-11-11-11-11-11-11-1-1-1-1-1-1-1-1-1-
δA.	Willow Creek-Tonsina		*****************	***************************************	219,769.27	109,660.78	110,108.49
0/1	MITTON CLOCK-1 MIDHING TIME	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EXIII.				

No.	Sub-project Name	Federal Appropriations and "Alaska Fund"	Contributed Funds	Supervised Funds	Grand Total	Construction	Maintenance
GB	Tonsina-Chitina	333,419,30	11 1 2 12 1	***************************************	333,419.30	145,362,69	188,056.61
6D			*************	***************************************			
	Chitina Depot	13,659,63	······································	**************	13,559.63	11,038.66	1,620.97
G LE	Chitina-Native School'		590.06	***************************************	599.66	495.06	104.60
6F	Lower Tonsina Aviation	.*	12 (30 % d) 1 m				
	Fleid		1,230,16	¥4454454-++44+++++++	1,230.16	1,230,16	**************
6C	Copper Center Aviation \		人名英格勒斯				
	Floid		200,50		200.59	200.59	*************
7.A	Summit-Chatanika	69,659,37	00,00	1,252,03	74,216,40	40.762.71	33,453,69
	Cleary Creek	2,344,40	1,511,71	3,206.54	7,062,65	4.317.81	2,744,84
713	Fox-Olnes		1,299.36	6.805.81	35,202.02	28,091.66	7,110.37
	Dome-Spaulding Mine		3.161.51		3,161,61	2.839.37	322.14
700	**Fox-Steel Creck	*** ***********************************	0,101,41	855.76	855.75	855.75	
			6.325.80				<b>60</b> 000 10
7C	Summit-Fairbanks Creek .	15,945.14		26,521.85	48,792.79	24,902.61	23,890.18
TCA.			12,881,93	2,776.16	15,658.09	12,780.82	2,877.27
7D	Ester Creek		12,674.43	26,406.43	78,098.23	38,656.93	40,341.30
7DA		/	91.54	815.12	936.66	00.082	406.66
7DB	Ester-Donie,		60.21	4.596.58	4,656.79	4,192,73	464.06
7DC	St. Patricks-Happy		731.52	6,069,47	6,800.99	6,069,17	731.52
7DD				1,000,00	1.000.00	1.000.00	
710**			*************	379.00	4.875.20	4,702.83	172.37
7F**	Vault Creek-Treasure Cree		*************		1.379.09	1.350.00	29.09
7G				04.055.10			
	Fairbanks-Gilmore		Απ.σ.	24,356.19	148,992.53	70,402.75	78,589.78
7GA			97,76	5,199.84	5,297.60	4,113.51	1,184.09
7H	Little Eldorado Creek		807,01	6,775.87	11,473,71	8,578.31	2,895.40
71	Gilmore-Summit			11,334.93	44,986.14	19,163.32	25,822.82
71A*	*Glimore Creek			1,562.00	1.562.00	1,662.00	*************
7J	Fairbanks-Chena Hot	* 1	一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一				
• •	Springs	12.263.00	835,00	2.587.10	15,685,10	8,032,59	7.652.51
7JA.	Chena River Branch		390.00	************************	1.425.66	614.01	811.04
7JB	Palmer Creek Aviation	:	그 그는 사람들이 되었다.	***************************************	_,		
	Field		575.00	44444444444	575.00	575.00	***************************************
7JC	Colorado Creek-South Forl	r	600.00		600.00	600.00	
7K			210.00	1.274.93	14,667,75	12.820.48	4 0 45 05
	Qines-Livengood	13,152,82					1,847.27
7N	Farmers-Birch Hill	***********************************	2,146.14	21,916.56	24.062.70	14,401.97	9,660.73
7NA		*** ************	103.42	2,347.21	2,450.63	1,675.00	775.63
7NB			13.37	1,897.86	1,911.23	1,800.00	111.23
7R	Goldstream-O'Connor Creek		**********	******	154.64	154.64	
7S	Grachl Bridge		1,353,12	1,345,41	2,698,63	1,323,57	1.374.95
ίŤ	Farmers-Chena Slough		3,646.18	7,274.91	10,921.09	8,198,77	2,722.32
7Ÿ	Fairbanks-Wireless		010-4-40	****************	495.46	***************	495.46
• •	A Million . Li se prosen	***· *V	1 1/3/5	*******************	******	111111111111111111111111111111111111111	******

				75.0					
	7.X	Chena Hot Springs Aviation							
		Pletd	*************	1,361.68	378.00	7,739.68	1,689,68	Ian. (b)	
	7 Y	Entrhanks Aviation Field	**************	17,217.32	2,463,90	19.671.22	19,471,22	200,00	
	7%	Enjrbanks Aviation Field		()		77,001102	117, 11 1.22	£	
		Rond	766.66	**************	**************	766.66	766.66	***************	
	8	Nonte-Council	214,007.74	中国第233,218.24	55.647.98	402.873.96	179,382,96	223,491.00	
	8D	.Council-Ophir Creek	2,856.76	2,460.00	**************	5.316.76		5,316.76	> .
	811	Casa de Paga	9,552.50	10,808.00	10.079.75	30,440.25	17.439.65	13,000.60	7
	8J	Shovel Creek	5.05		58.50	66.55	58.50	8.05	2
	812	Council Aviation Field		501.60	F4400444444444444444444444444444444444	501.60	504.60	*************	g
	ŠŢ	Port Safety Alds	***********	376.50	** ***********	376.50	*************	376.50	ANNUAL
	9 .	Rampart-Eureka	44,664.82	3,827.00	1,518.32	50,010.14	29,114,36	20,895,78	Ľ
	10*	Soward-Kenal Lake	72,387.76	00.000,7	3,396,17	80,783.93	46,260,83	34,523,10	Ħ
	10A*	Seward-Radlo	6.594.04	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	**********	6,594.04	6,470.04	124.00	땑
	10B	Seward-Nash	***************	1,215.25	20,780,75	21,996.00	13,242,30	8.753.70	नेर्च
	10C	Lowell Creek Flood Control	90,616.06	25,080.75	*************	115,696.81	113,238,62	2,458,19	Ő
	10D 11A	Seward Aviation Field	***************************************	6,756.95	60,00	6,816.95	6.671.20	245,75	Ħ
	1111	Eagle-Liberty	101,487.73	800.80	- 600,00	102,888.53	48,263.41	54,625.12	EPORT
	1113	American Summit-Liberty	9,838.15		******	9,838.16	6,429.14	3,409.01	_
	110	Liberty-Forty Mile Steel Creek-Jack Wade	19,237.31	1 1	1,216.00	20,453.31	15,251.19	5,202.12	₽.
	iičo	Stoel Crock-Jack Wade	6,465.66	1111	**************	6,465.66	4,632.50	1,833,16	E
į.,	1100	(Summor)	. 660.50	1 3300					ALAS
	11D	Steel Creek-Walker's Fork.	6.196.70	3	************	660.50	*************	660.60	꾩
	1110	Magie-Seventy Mile	16,703,44	1000	. **************	6,196.70	4,110.00	2,086.70	KA
		Jack Wade-Chicken	2,679,46	¥************	**************	16,703.44	4,964,59	11,738,85	
	fig	Steel Creek-Canyon Creek	914.00	·*········	**************	2.679.46	****** ******** ***	2.679.46	ಸ
	iiii	Liberty Cabin-Done	6,625,41	***********	**************	914.00	to the tracking a real of	914,00	Ö
	îii`	Dome-Stoel Creek	8.354.43	philipper	Parametra page transcent	6.026.41	2,714.27	3,011.14	Ð
	ìij	Forty Allie-Pranklin	44.76	144	***************	6,254,43	1,300,00	3,964.43	U
	IIK	Forty Mile-Sheel Creek	80.00	1 115.1	************	44.75	#41 * FEE . C. #151 FEE . C.	44,76	_
	116	Pranklin-Chickon	1.077.75	1 hily are arrange	essiver of territor	80.00	Everytary Elfiphin, hour	80.00	Ω
	TIM	Jugh Widos Walker's Forts	11011110		Areas, acabosco sav	1,077.74	haffarantasiye (sees)	1,677.75	Q
		. Houndary massessesses and	126.00	with the manner		125,00		106 001	COMPLISSION
	TIMM	Jack Wade-Mouth Walker's		1 m (13 m)	*************	í 50 m	Andrew Codesing	426,00	
		Pork	1,236,00	Manager and the state of the st		1,280.00		1.236,00	늰
	.11N	Litywig Creek	909.60	****************		909,60	909,60		92
	1111	Chicken Aviation Field	****************	1,674,13	550,00	2,024,13	2,224,13	•• •• • • •	124
	11Q	Barte Aviation Pield		1.420.75	11010,1110	1,430.75	1.420.76		0
	12.1**	MHe 34-Lynx Creek	22, 192, 66	2.0019160	PPP76317594141413114	23,192,66	13.953.63	8,239,03	- 4
	13 A	Nome-Beggle	03.960.80	21,609,68	*****************	86,676.48	38.541.95	47.034.53	•
	1818	Rossle-Sinder River	66,641,68	120,835,50	*****************	77.347.18	29,533.12	47,814,00	
	13C	Begsie-Little Creek	7,819.35	8.805.10	*************	14.714.46	1,733.08	13,580,47	
	137)**		3,218,40	William	70,80	3.289.30	1.582.47	1.706.73	
	1310**	Dry Crock-Newton	023.74		**************	623.74	309.88	223.86	-
				- 具注 滿瓣。			.,,,,,,,,,	244,000	-7
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				1 7 775					

, , , , , , , , , , , , , , , , , , ,	Sub-project	Federal Appropriations and	Contributed	Supervised	40.40	Constitution of the second	
No.	Name	"Alaska Fund"	Funds	Funds	Grand Total	Construction :	Maintenance
131° 13Q**	Nome-Osberne Grass Gulch		28,410.72		56,640.71 1,125.73	15,393.79 786.79	41,246.92 338,94
1311++	Center Crock		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***************************************	1,638.80	83.65	1,455.15
133**	Wonder-Flat Crook				2,803.72	170.50	2,633.22
13 K	Honsie-Buster	35,233,42	18,039.60	************	53,272.92	17,503.98	35,768.94
13L	Nome Buoys		585.00	**************	00.080	**************	685.00
13M	Nome Depot		to distribution	7.44 (A. 100.4.)	3,072,09	face a company of	3,072,99
14*	- Bitkashdian River		in in Comment		9,610.88	0,274.72	3,330,16
14	- Milka-Indian Riyer 👑 🔑		3,660,12	1 (1) (1 - 1+)	6,293.64	8,669.00	2,730.64
147	Sitica National Monument		0,286,30 700,00	access and a part	10,233,44 7,023,22	1,54(0,00) 2,9(0),00	8,683,44 4,323,22
[4]3	Sitka Military Conjetery	6,623.22	4,026,93	111 (148 A) 1 April 1	4,026.93	3.341.02	686.91
14C 14D	Ploneer Cemetery Road		120.00	397.50	1,346,02	697.47	648,55
15	Circle-Miller House		1,608.63	***************************************	60 60 44 ALAIN MAA	420,427.03	137,963,60
15.4	Central House-Circle Hot			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************	***************************************
10.7	Springs		3,370.00	3,702.26	23,530,20	18,180.70	5,349,50
1513	Central House-Deadwood		110	2,569.75	2,669,76	2,569.76	************
160	Circle Hot Springs Aviation		. 194	.,			
	Pield		370,00	1,016.50	1,386,50	1,316,50	70.00
15D	Lecch Cutoff		Lamber and	lessesses a consesse se	224.75	224.76	
1510	Miller House Spur		354.68	1,559.55	1,914.23	1,870.53	43.70
16	Chutanika-Miller House in	637,228.64	9,969.59	************	617,198,23	478,081,39	169,116.84
16A.	U. S. Crock Branch		10,140.46	231,07	10,372,13	10,372.13	*************
16B	Eagle Creek Spur		223.61	81.17	304.78	81.17	223,61
16C	Chatanika-Miller House	00 (07 1)	1 000 00		06,066.18	14.614.74	0.450.00
	(Wintor)	22,065.13	1,000.00	***************************************	23,065.13 33,518.93	23,737.80	8,450.39 9,781.13
17	Tanana-Kaltag				183.37	483.37	
17A** 17B**	Lewis Landing-Dishkaket Nulato-Dishkaket				735.88	485.88	250.00
170	Nulato Aviation Fleid		5.011.89	***************	6,011.89	5.011.89	***************************************
17D	Tanana-Kaltag Station Tel			***************************************	2,	-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4113	phone Line		1.336.99	, mahamanan	4,336,99		4,336,99
18	Kaltag-None		9,478,00	565,70	66,648.15	28,137,39	38.510.76
18A	Bonanza-Kotzebue :		3,212.40	*************	9,023.36	1,230,00	7,793.36
18B	Golovin-Council		130.00	************	273.60		273.00
18D	Unalakleet Aviation Field.		1,069.27	patrolitererererer	1,069.27	1,041.67	27.60
18E	Solomon Aviation Field		128.80		128.80	95.00	33.80
18F	Golovin Aviation Field		1,380.50		1,380.50	1,375.40	5.10
18G	Moses Aviation Field		254,20	************	254.20	225.00	29.20
18H	Kaltag-Unalakieet Telephor	10	14			4	
			4 1 4 1 1 E				

19** Kenn Creek-Knik 19A** Kenn Lake-Kern Creek 19B** Mile 27-Mile 29 A.N.R.R. 19C** Kenal Lake-Mile 27 A.N.R.R. 19D** Kern Creek-Indian Creek 20A** Knik-Susitna 20B Susitna-Rainy Pass 20C Rainy Pass-Big River 20D** Dishkaket-Kaltag 20DA Takotna-Ophir (Winter) 20DB* Susitna-MeDougal 20L** Susitna-MeDougal 20L** Susitna-MeDougal 20L** Susitna-MeDougal 20L** Susitna-MeDougal 20L** McDougal-Cache Creek 20C** Lakevlew-McDougal 20L** Susitna-Tyonek 20K* Susitna Aviation Field 21 Unalakleot-St. Michael 22 Hot Springs-Sullivan Creek 23A Snowshoe-Benver 23B Beaver-Caro 23C Big Creek 23D Caro-Fint Creek 23D Caro-Fint Creek 23E Caro-Coldfoot 23F Chandalar Aviation Field 24** Mile 29 A.N.R.RSunrise 24A* Lynx Creek-Six Mile 24A* Lynx Creek-Six Mile 24A* Lynx Creek-Six Mile 25B Nome Wireless 25D Mouth of Center Creek 25B* Submarine Paystreak 25H** Otter Creek 25K Nome City Dock 25K Nome City Dock 25M Telephone Lines, Seward Peninsula 25N Nome City Streets 26D Nome Harbor Lights 26C Candle-Candle Creek 26A** Kugruk River Approach 26B* Bear Creek Trail	6,516,84 1,367,08 2,336,14 14,425,27 29,234,88 1,802,52	2,000.00 2,000.00 1,630.00 9,235.33 640.00 6,747.24 2,284.95 600.00 768.00 8,351.50 4,667.00 2,966.65 5,439.12 10,492.81 1,672.07 1,472.13 28,741.23	1,005,00 2,580,00 1,468,60 1,468,60	1,854.36 13,891.95 6,833.20 741.66 1,595.81 3,758.26 3,434.16 8,437.44 32,876.98 16,436,46 4,290.00 4,780.74 4,335.00 8,640.21 7,350.00 3,675.00 2,264.16 2,643.93 931.10 8,806.33 57,718.67 14,163.03 60,780.24 9,614.77 14,290.64 13,167.46 8,215.74 57,850.94 10,882.40 1,085.00 8,801.70 1,967.08 3,094.14 22,776.77 34,579.23 1,802.52 2,966.65 5,439.12 10,492.81 672.07 472.13 77,390.50 488.00 613.09	10,276.22 6,833.20 741.66 1,595.826 801.65 7,847.85 26,278.29 14,509.07 4,251.40 3,800.00 3,575.00 3,675.00 2,643.93 931.10 2,602.63 27,823.86 10,935.45 30,340.81 6,320.00 4,123.26 7,559.87 8,215.74 30,727.85 7,082.40 885.00 5,057.97 1,276.03 1,764.91 6,087.77 24,370.33 1,149.54 2,966.53 3,622.70 1,700.00	1,864.36 3,615.73 2,542.50 629.59 6,598.69 1,927.39 38.60 980.74 760.00 347.10 2,264.16 3,227.58 30,539.43 3,227.58 30,539.43 3,227.58 30,539.43 3,294.77 10,267.38 6,607.59 27,123.09 3,800.00 200.00 3,743.82 6,691.05 1,329.23 16,689.00 10,208.90 652.98 1,916.42 8,792.81 672.07 472.13 42,396.43 488.00 273.09	ANNUAL REPORT ALASKA ROAD COMMISSION. 19
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No.	Nuls-project Nume	Federal Appropriations and "Alaska Fund"	Contributed Punde	Hoporybod Bunda	Grand Polat	Construction	Mulnlenanco
2007 2010 2010 2010	Candle-Klwalik Kiwalik Aylation Field Candle Aylation Field Telephone Line Reconnuls	.4 73:0517407710074717	600.00 441.10 1.885.00	**************************************	1,027,91 441,10 1,355,00	$\substack{1,027,91\\300,00\\1,355,00}$	141,10
27 27 A 28 28 A	Panco Deerlag-Inductule Deerlag Ayintion Field Shelton-Candle None-Serpentine Hot	., 48,684,24	148.00 45,870.84 1,022.00 1,383.00	1,017.95	148.00 00,629.15 1,022.00 12,168.58	30,891,90 1,022,00 8,807.02	148,00 48,000,26 48,001,60
29 A 29 A 29 C 29 D 29 D 29 D 30 A	Harings Tanana-Bettles Bettles-Coldfoot Mile 70-Hugles Wild Hiver Trail Bettles River Aviation Fiel Hot Springs Landing-Durck Hot Springs-Tofty	9,261,59 2,167,02 1,425,76 d 46,093,01 6,500,73	4,740,00 280,00 9,807.71	2,000,00 2,000,00 256,00 3,967.09	11,817,04 12,056,05 11,263,59 2,167,02 1,425,76 500,00 50,927,81 6,500,73	5,219 00 7,012.11 5,139.00 1,708.57 500.00 20,425.81 4,309.26	6,678.04 6,043.94 6,131.59 458.46 1,426.76 30,502.00 2,191.47
3013 31 32A 32AA 32AB	Manley Hot Springs Aviatio Field Carlbou Creek	13,004.62 9,247.94 45.00	3,075.00 640.00	90.00	4,105,00 13,034,62 9,247,94 45,00 15,00	1,140,00 8,580,02 5,437,20	5,053,70 4,810,65 10,43 16,00
32AC 32H 32G 32D 32DD 32DD	Candle Creek-Taketna Iditared-Flat Ophir-Iditared Flat-Creeked Creek Flat-Georgefown Taketna Aviation Fleid	1,216,09 82,875,04 7,244,95 4,910,09 160,00	16,143.61 100.00 200.00 2,295.12	12,098.31	1,216.00 111,116.96 7,344.96 6,110.09 150.00 2,295.12	55,886.27 5,000,00 1,480.00	1,216.09 55,230.69 2,344.95 8,630.09 150.00 351.93
EF 3A** 3B** 3C 3D	Takotna Depot	6,118.64 448.23 5,047.66 3,189.76	**************************************	••••••••••	6,118,64 448,23 5,047,66 3,189,75	4,304,20 448.23	3,189.75
3E 3F 3G 3H	Creek Willow Creek-Chicken Cree Flat City-Otter Discovery Candle Landing-Candle Cree Flat Aviation Field Million Loid Landing-Candle Cree Flat Aviation Field State Control Co	k 3,940.15 5,292.15 k	1,900.00	11,086.08 6,572.00 1,000.00	4,722.07 3,940.15 16,378.23 6,572.00 2,900.00 4,830.98	1,243.00 1,500.00 9,811.08 5,597.00 2,900.00 4,730.98	3,479.07 2,440.15 6,567.15 975.00

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		100				
34A Flat-Holy Cross-Anylk	1,552,39		************	1,552,39	************	1.552.39
34B Iditarod-Shageluk-Anyik	1.033.87			1.033.87	500.00	533.87
35A Archangel Extension	29,822.97	30.4	****************	29.822.97	17,197,92	12,625.05
and Artifoldista Danielle						
35AA Sherry Branch	1,768.49	***************************************	*************	1,768.49	1,119.32	649.17
35AB**Fairangel Extension	104.20	3113.	************	104.20	104.20	***************
3517 Palmer-Fishhook	21,468.80	1.850.00	867.08	24,185.88	16,916.60	7,269,28
35C Palmer-Matanuska River	32.464.68	116.66	1.729.33	34.310.67	23,656,16	10.654.51
35D Willow Creek Extension	98.844.40	1.00	***************	98,841.40	38.134.14	60.710.26
35DA Gold Chord Branch	5.591.24	5.000.00		10.591.24	10.591.24	
35E Wasilla-Fishhook			************			00 100 FB
35P Washa-Fishnook	113,815.22	************	***************************************	113,815.22	33,412.63	80,402.59
35F Wasilla-Knik	50,951,98		345.00	51,296.98	26,435.47	24,861,51
35C Palmer-Springer	*************	31.15	2,800.83	2,831.98	1.573.32	1,258.66
35H Wasilla-Palmer	6.387.03	4,235.00	22.057.23	32,679,26	19,057,23	13,622,03
351 Moose-Palmer	500.00	536,61	7,000.06	8.036.67	6,893,09	1.143.58
35.J Wasilla-Matanuska	12.714.19	8.908.55	2.540.56	24.163.30	9.276.23	14.887.07
35K Matanuska Trunk Road	8.450.73	5.810.00				
	-,		21,331.46	35,592,19	15,051.46	20,540.73
35L Palmer-Matanuska	***************	3,129,45	11,356.15	14,485.GD	8,404.70	6,080.90
35N Houston-Willow Creek	272.00	************	940.32	1,212.32	940.32	<b>272.</b> 00
35O Fishhook-Goldmint	11.265.32	9,400,00	************	20,665.32	17,536.83	3.128.49
3513** Moose-Baxter	***************************************		2.218.62	2.218.62	2.218.62	***************************************
35Q Edlund Road		11.25	3.047.19	3.058.44	2,551.69	506.75
351t Bogard Road	***************************************	200,64	13.228.58	13,429,22		- 4 - 4 - 1
ned by the Charle from the	0 1 1 0 1 4	200,01				
358 Moose Creek Trail	2,118.44	1/2   1/2	**************	2,118,44	2.041.01	77.43
35T Werner Connection	2,630.17	2,580,00	***************************************	6,210.17	2,771.32	2,438,85
35U Moose Creek Aviation Field	************	481,75		481.75	461.50	20.25
35V Fishbook Aviation Field		917,49		917.49	848.74	68.75
35W Wasilia Aviation Field		459150		459,50	459.50	***************************************
35X Wasilla Aviation Field Road	***************	1,135,94		1.135.94	1.135.94	
	17.327.80	18,700,56	24.347.37			nP 020 80
36 Mineral Crock				60,375.73	35,315.01	25,060.72
36A Granby Rond	**************	340[44	3,081.91	3,431,35	3,081.91	349.44
36B South Second Street,	•	10.				
Cordova	*****************	.,, (j)	3,373,16	3,373,15	3.373.15	
36C* Eyak Lake Rond	24 34 34 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4		7,735,85	7,735,85	7,735,85	
36CA Cordova Aviation Field		อสสเขอ		941.90	026, 15	15.75
36D** Valdoz-Quartz Creek	***************************************		524.75	524.75	624.76	
						***************************************
	*******		616.91	616.91	616.91	*****************
36F** Shoups Bay			3,457.25	3,457.25	3,457.25	***************************************
37 Topkok-Candle	1,026.56	************	*****	1,026.56	816.56	210.00
37A Bluff-White Mountain	1,223,23	2.050,00		3.273.23	3,273.23	**************
37B Bluff Aviation Field	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	80,00	*************	80.00	80.00	
38A Ruby-Long	216.487.42	3.824759		220.312.01	132.020.35	. 88.291.66
	3,419.84	3,02,100		3.449.84	1.502.96	1.916.88
			**************			
38C Ophir-Cripple	3,927.91			3,927.91	1,899.00	2,028.91
38D Ophir-Takotna	197,263.48	55,095,84	*****	252,359.32	174,507.50	77,851.82
38DA Little Greek Rond	************	10.175/16	*************	10,175,46	8,796.04	1,379.42
****** ****** - · · · · · · · · · · · ·						

	A Company of the Comp		1.7518				
<del></del>	Sub-project	Federal Appropriations					
No.	Name	and "Alaska Fund"	Contributed Funds	Supervised Funds	Grand Total	Construction	Maintenance
38E	Long-Poorman	129.107.79	490.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	129,597.79	103.574.56	26,023,23
38LE	- de la de	5.368.00	10.00	**************	5,378.00	5,268,00	110.00
38 EEE	ETamarack-Poorman		**************	22,322,69	22.322.69	22,322.69	
38F	Poorman-Ophir		***************************************	***************************************	3.030.44	***************************************	3,030,44
38G	Takotna-Landing	8,374,68			8,374,68	7,374.68	1,000,00
3814	Canes Creek Road		10.668.19	*******************	10,668,19	3,403.85	7.264.34
38K	Ruby Aviation Field		1.324.38	600.00	1,924.38	1.200.00	724.38
38L	Ruby Aviation Field Road.		***************************************	500.00	500,00	500.00	*****************
38 M	Ophie Aviation Field		1.635.12	190.00	1.825.12	1.825.12	*************
39*	Juneau-Sheep Creek		***************************************	***************************************	45,929,40	25,390.13	20,539,27
40	Douglas-Gastineau Channel		2.853.00		18.616.56	12,019.88	6,596,68
41	Khina-Klery Creek	3,623,57	66.00	**************	3.678.57	3.014.76	663.81
41A	Kotzebue-Shungnak		1.808.00		3,414,44	9,07,1110	3,414,44
4113	Kotzebue-Point Barrow	3.180.74	2,737,28	*************	6.918.02	4,400,02	1.518.00
41D 1	Kotzebue Avlation Field	ne 4720017	1.098.10	**************	1.098.10	670.60	427.50
41 E	Kobuk Aviation Field	***************************************	1,000.00	**************	1.000.00	1.000.00	
42	St. Michael-Kotlik		518.00	****************	2,385,51		2,385.51
43*	Petersburg-Scow Bay	8,171.65	1,500.00	19 704 50		13,497.67	9,968,66
44*	Skagway Valley	10.303.30		13,794.58 821.53	23,466.23		2,320,88
44A			4.081.38		11,124.83	8,803.95	
44 B	Skagway Tralls			*************	15,733.88	11,158.71	4,675.17
	Skugway Aviation Field		3,600.00	***************	3,600.00	3,600.00	100 FAIT FA
45+	Silver Bow Basin		2,796.91		23,466.21	5,938,42	17,627.69
46	Kobl-Pareka amama amama	16,072.86	************	************	16.072.85	12,671.63	3,501.22
46A	Roosevelt-Kantishna	47,660.00	12,370.61	1,655.03	61,686.63	41,062.60	19,723.84
4613	Lightto-Kantishna		483.07	*****	. 13,130,00	11,966.91	1,163.09
16C	Nonana-Kalght's Roadhous	3.256.62	*************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,256.62	1,592,58	3,664.04
46D	McKinley Park Road	456,682.07	*************	700.26	467,382.32	415,357.56	42,024.76
461C	Diamond-Tellda	10,039.77	400000000000000000000000000000000000000		10,039.77	6,811.56	3,228.21
101	Nenana Cemetery Road	4,444.32	2,846.24	****************	7,290.56	3,818.63	3,471.93
46G	Kobi-Bonnifield	5,767.51	P-01,2,,	***********	5,7,67.51	5,70G.G1	60.90
4614	Lake Minchumina Aviation	-					
	Fleid	*** ***********************************	900.00	*************	900,00	750.00	150,00
46J	Kantishna Aviation Field		775.00	*************	775.00	675.00	100.00
46K	Telida Aviation Field	*** ************	850.00	**************	850.00	600,00	250.00
46M	Nenana Aviation Fleld		862.66	180.00	1.042.56	720.00	322.56
47	Coldfoot-Wiseman		***************************************	2,000,00	15.016.43	8.942.61	6,073.82
47A	Wiseman Aviation Field		3.915.62	1.613.25	5.528.87	4.113.25	1.415.62
47B	Nolan Branch				19.562.19	16.192.74	3,369,45
17C			*************		5.749.19	3.967.07	1,782.12
48	Iliamna Bay-Iliamna Lake		************	************	49.670.34	45.163.88	4.506.46
70	indime pay-intime take	** AN'DIO'SA	**************	*************	49.010.34	45,105.00	4,000,40

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49         Davidson's Landing-Taylor         9.485.09         8,927.00         18,412.09           50*         Stikine River         2,256.75         2,256.75           51         Talkeetna-Cache Creek         177,418.91         81,109.36         258,528.27           51A         Cache Creek Trail         4,253.11         300.00         4,553.11	7,713,17 2,256.75	10,698.92
51 Talkeetna-Cache Creek		4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
51A Cache Creek Trall	165,339,35	93.188.92
	2,270,00	2.283.11
2175 Tallering Calculate Manual	10,206,82	1.032.47
P1/3 37	5.130.44	44.36
	1,307.45	758.91
	179.90	* ****
52* Ketchikan-Ward's Cove 6,801.98 19,318.44 26,120.42	21.120.42	5,000.00
52A* Ketchilian-Charcoal Point	12,500,48	3,000,00
53 16agle-Circle 5,746.59 5,746.59	1,684,72	4.061.87
53A Circle-Fort Yukon	4,100.67	8,636,41
5311 Fort Yukon Aviation Fleid	2,540,80	643,00
44 Chilann-Nizina	7.337.30	2, b3H, 9 L
54A Chibana Aviation Field man common 1,494.63	1,494,63	District Manager
5415 Nubesna Aylatton Ffeld 1,476.68 1,476.68	1,476,68	***********
56 Kenni-Russian River	6, 650,26	5,865.74
A SECOND A SECULAR SALLEY	901.61	111111111111111111111111111111111111111
F 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.058.14	
		***********
	7,752.56	For there det
	146,852.23	68,880.12
57A Nizina River Bridge	125,941,80	33,747.76
6,059.07 Nizina-Chitina River	5,400.57	558,50
570 McCarthy-Konnecott River 385.79 (minimum)	#other: stretigneds	385.70
57D Chittu Branch 5,987.51 ' 5,987.51 '	5,028.48	059.03
5710 McCarthy-Green Butte	411/441111111111111	1,804,55
57F McCarthy Aviation Field 1,923,00 1,923,00	1,780.88	142.12
58* Hyder-Salmon River	69.60	***************************************
59 Fairbanks Bridge 73,627.45 73,627.45	61,699,30	11.928.15
59A Fulrbanks Depot 21,173.96 21,173.96	16,707,00	4.466.96
60 Valdez Dyke 56,065,98 16,213,54 4,638,00 76,917,52	56,065,98	20.851.54
0.01 37 13- 1 1 41 - Y31 13	2.351.65	
60B Upper Tensina Aviation 2,351.65 2,351.65	2,301.00	***************************************
1 00 00	1 400 05	
	1,699.97	4 5 4 4 5 5 6
61 Strebne-Kuskulana 5,746.88 2,278.98 9,080,42 17,106.28	12,530,55	4,500.73
61A Kolsina Prall	14,671.66	1,397,55
#113 Nugget Crook Extension 1,880.00 ammunia 1,880.00	microstic estates .	1,630.00
### #################################	0,858,42	*************
61B Farmin Trall	926, 16	16,80
614 Brenner Trail 2,373.25 1,100.00 3.473.26 3.473.26	3,473,26	gauge exercise and the
62 Dimo Creek	43,702,96	33.993.94
62A Haycock-Bear Creek	216,00	301.82
6214 Haycock Aviation Field 105.00 105.00	105.00	
62C Koyuk Aviation Field	27,08	*********
63 Dunbur-Brooks 13,935.64 10,248,15 7,975.79 31,259.58		12,029,09
An analysis are also minimization valuation extended 1/4(0:10 #1/800:00 %	10,000,00	I supremute stat

	termina a mana samahan di pangaran termina ay asamban a saharan 1985 at 1985 at 1985 at 1985 at 1985 at 1985 a	Pederal	1			,	
	Sub-project	Appropriations and	Contributed	Supervised	1		
No.	Name	"Alaska Fund"	Funds	lemids	Grand Total	Construction	Mistritoriere
6313	Brooks-Livengood Creek	2,478,45	1.857.90	28,564.86	32,901,21	20.064.86	12,836,35
63BA	Amy Creek Branch	500,00	****************	1.868.46	2,368,46	2.068.46	300.00
63C	Brooks Trum		1,543,04	6.425.00	57,141,16	18.311.30	88,829,86
63 D	Brooks-Aviation Field Road		***************************************	713.00	713.00	713.00	*******
6310	Llyengood Aviation Field		1,125.25	1,200.00	2,325.25	2,154.00	171.26
64**	Crippie-Lewis Landing		************	**************	100,00		100.00
64A.	Cripple-Cripple: Mountain	553.65	**,,	*************	663,66	292.00	261.66
64A.A.	Cripple-Cripple Mountain		. 설등				
	(Winter)	851.05	**************	*************	851.05	611.05	240.00
Ul.A.	Gulkana-Chistochlag		*************	A 460 1-11	270,742.76	324,733.50	45,969,26
6513 65C	Chistochina-Sinte Creek		***************	149.00	258.60	149.00	109.50
65D	Chistochina-Tanana Crossin Ketchumstuk-Tanana Cross		****************	**************	39,451.22	39,359.02	92.20
0015	ing			*	1,669,82		1,609.82
6519	Chicken-Ketchumstuk		**************************************	***************	1.663.60	**************	1,663,50
651	Grundler-Tanana Crossing.		111	*************	11.833.39	9.372.71	2,460,68
650	Slana-Chisana		1/4	**************	3.448.63	2.468.41	980.12
6514	Tanana Crossing Aviation	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i (∯ne				455.22
	Fleld		300.00	***************************************	300,00	300.00	*************
CC**	Matanuska-Chickaloon		****************	914.55	1,268.30	1,268.30	4
67	Nome-Teller		5.413.50	150.00	9.743.56	300.00	9,443,56
67A.	Teller-Cape Prince of Wale		1,943.00	******************	2,943.08	************	2,943.08
67B	Teller-Bluestone	3,118.56	5,330.00	*************	8,448.56	4,461,45	3,987.11
67C	Teller-Pilgrim Hot Springs		1,835.00	*******************************	2,983.72	1,800.00	1,183.72
67D	Teller-American River	292.34	614.00	**********	906.84	849.67	56.67
67 Li	Teller Aviation Field	***	752.80	************	752.80	752.80	
671	Tin City-Goodwin		630.00	1,000.00	2,097.82	2,097.83	***********
67G	Lost Blver Aviation Floid .		121710	***************************************	121,40	121,40	************
6711	Wales Aviation Field		121.40 17.289.63	10 400 60	121,40	121.40	64 460 46
68 70	Flagging Trails	65,099.04	11,200,00	12,069.53	94,468.10	***************	94,458.10
19	Recommissances	41,632,01	617.80	466, 49	12,715,80	12.715.80	
72*	Wrangell Oil Dock		2.000.00	1	4.964.97	4,964,97	1
72A*	Wrangell Cometery Road .		2010	8,639,22	8,630,22	6,289,22	2,350.00
73	Marshall Road		1,338,75	11,685,90	20,912,70	14.558.05	6,384.65
73A.	Kotlik-Marshall		1,620.00	11,000,00	3,292,94	850.00	2,442.94
7313	Stuyahok	015 00	745.00	***************************************	1.660.00	1.660.00	-,
73C	Old Hamilton-Scammon Ba		1.512.00	*****************	2.378.18.	1.853.45	524.73
75	Anchorage Loop		22.974.85	5,606,43	109.058.44	57.003.79	52.054.65
75A	Anchorago-Lako Spenard		3,816,78	16.449.06	19.265.83	10.010.23	9,266,60
			7,7	,,-	,,00	,,-	4,2.2.00

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75C	Chester Creek Boat Landing		235.83	927.30	1.163.13	782.42	380.71
75D	Anchorage Depot	6.072.03	(15).	***********	6.072.03	3,966,35	2,105,68
75E	McDonald Road	1.329.52	975.00	***************************************	2,304,52	1.105.13	1,199.39
75CI**	East First Street, Anchorage	**************		1,023,46	1.023.46	1,023,46	
7514	Lake Spenard Aviation Field	*****************	177.45	100.00	277.45	277.46	*************
751	Oliwell Road	*****************	" 5,410,91				000.00
75.1	Anchorage Aylatlon Fleid		8,604,88	*************	6,416.91	4,589,99	826,92
76	Cantwoll-Valdez Greek	LA enn ba		**********	3,604.84	3,604.84	
76 A	Validate America Circus	10,790,80	**************************************	11512010000000000000000	10,790.80	7,840,20	2,950,60
	Valdez Creek Aviation Field	*****	602.60	**********	602.60	602.60	*****************
7 X	Valdez Depot	4,705.84		4	4.705.84		4.795.84
79	Soward Dopot	4.114.05		4***** ***** ******	4,114,05		4,114.05
80 A	McGrath-Tukotna	368.06		1.0004110011101111111111111111111111111	368,05	4 10 10 41	368.05
80 A A	McGrath-Takotna	4.396.80		332.00	4.728.80	2,182,00	2.546.80
8013	McGrath-Tellda	11.324.88		***************************************	11.324.88	7,178,21	4.146.67
800	McClrath-Candle Crook	305.20			305,29		
801)	Nixon Porte-Nixon Mine			the state of the		Maria de la maria de la maria	306,29
8010	Takotmi-Twin Peaks	213.10		2,348,00	2,348,00	2,348.00	611611148111
8016	Medfra-Nixon Mino assessment		2912923770129777814	*****************	218.10	113.16	100,00
800	Buckey Million Street	3,450,60		411141111111111111111	8.459.60	1,800.00	1.669,60
	Takotna-Nixon Fork	010.50			610,56 .	************	• 610.66
8000	- Pakotim-Nixon Fork (Win-		. 1846		•		
	(er)	183,16	***************************************	***********	183,16	***************	183.16
801·L	McGrath Aviation Field	*******	11,596,58	300.00	11.896.53	14,896.53	
soj	Modfra Aviation Field	******************	345.00	*************	345,00	285.00	60.00
84	Good Creek-Salmon River	3,900,62	9,499,40	*************	13,400,02	9,990.14	3.409.88
81A.	Rink River	197.12	1,352.88	***************************************	1.650.00	1,550.00	
82*	Taku River	899.21		19,309,74	20,208,95	20.208.95	************
84	Fairbanks-Council Survey	41.628.75					******
86	Fourth of July Creek	4.191.66	3 341	*************	41,528.75	41,528.75	14 CAM 40
87	Woodchopper Creek	872.00		***********	4,194.66	1,161.23	3,033.43
88	Monte The Creek				872.00	62.00	810.00
	Ferry-Eva Creek	20,775.68	***************************************	******	20,775.68	18,359.89	2,415.79
89	Kourarok Reconnalisance	4,312.11		*************	4,312.11	4,312.11	*****
89 A.	Seward Poplysula Rallroad.	149,163.17	100,00	24,404.55	173,667.72	64.539.92	109.127.80
8011	Pligring Aylation Mode	Acres to a	716.00	11400 000	710.00	716.00	
890	fron Grook-American River.	424,92	330,(ii)	[,000,00	1.754.02	1.754.92	
90 A	Sheller Cablus, 1st Division		840.96		340.36	340.36	
9013	Shelter Cabins, 2nd Division	***************************************	27.019.78	5,007,69	32,027,45	27,979,39	4,048,06
90C	Shelter Cabins, 3rd Division	***************************************	21,708,68	1.097.47	22,801,05	20,921,70	1.879.35
901)	Shelter Cabins, 4th Division	*****************	36,409.77	2,007.00	38,416,77	34.071.18	
91*	Yakutat	43.73	6.89				4,346,69
93A	Bothel-Quinhagak	1.330.21	1,000,00	************	. 50.56	80.68	**************************************
	19000019000000000000000000000000000000			**********	2,330.21	1,797.60	532,71
9213	Bothol-Tulukenik	1,744.24	725,00		2,469,24	1,478.48	990.76
93C	Akluk-Rugdan Mbodon	784,00	800.00	************	1,584.00	1,584.00	
931)	Bennett Cutoff	196.00	200,00	*************	898,00	396.60	*************
9210	Yukon-Kuskokwim Portage	12,362,33	10,600,00	************	29,052,113	22,016,48	935.85
9216	Quitthingnic-Cloud Nows Buy	1.749.06	758.45	** *** * *** *	2,608,41	2,417,77	80.64
	•	•	:K	1			*******
			1.46 1.		*		

lo.	Sub-project Nume	Federal Appropriations and "Alaska Fund"	Contributed Funds	Supervised Funds	Grand Total	Construction	Maintenance
2G	Good News Bay-Toglak	1,304.87	970.00		2,274.87	2,203.33	71.54
211	Togink-Nushagak	6.039.95	1,400.00	*********	6,439.95	3,848.47	2,591.48
21	Lewis Point-Naknok	1,947.70	860.00		2,807.70	2,632.34	175.36
2.J	Naknek-Egegik	1,531.50	740.00	1011	2.271.50	2,105.00	166.50
2K 2L	Egegik-Kanatak Crooked Creek-Anlak	922.00 1.099.58	310.00	*************	922.00	350.00	572.00
2M	Anlak-Tuluksak	2,231,31	1.120.00	***************************************	1,409.68 3,351.31	820.00 2,514.96	589.58 836.35
2 N	Akink-Canyon Ceeek	306,00		••••••••••••••••••••••••••••••••••••••	306.00		306.00
20	Tuluksak-Poothills		****************	manifer	1,444,14	1, 185, 12	259.02
312	Holy Cross-Kaltshak		***************************************	e symplekki arake symplekki	960.20	500.00	460.20
20	Upper Landing-Bear Creek	2.327.98	2,800.00	400.00	5.527.98	4,100,00	1,127.98
3	Challena Trall	4.885.32	3,000.00	877.17	8.762.49	6.956.44	1,806.05
3.4	Bull River Trail	1,716.79	1,200.00	1,698.81	4,515,60	3,582.32	933.28
313	Indian River	2,979.63	3,600.00	***************************************	6,579,63	6,566.23	13,40
3C	Curry Aviation Field	124.41	1,119.60	2,900.00	4,144.01	3,376.60	767.41
α	Chulitna Tram	238.85		*************	238.85	238.85	**************
	Kodiak-Abberts		************	************	58.068.26	46,808.51	11,259.75
<u>;</u>	Kanatak-Becharof Lake		*************	*************	30,135,24	23,882.31	6,252.93
513	Larsen Bay-Karink River	962.05	*:************		962.05	962.05	***************************************
î.	Chicknioon-King River	1,723.06	************	************	1,723.06	, 800,00	923.06
A	Chickatoon Cable	384.22	************	110	384.22	272.29	111.93
13	Chicknioon-Neichina	7,623,20	***********	•••••	7,623,20	7,500.37	122.83
7 7.A.	Suntrana Footbridge	413.80	491.79	·····	413.80 491.79	413,80 491.79	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3	Healy Aviation Field	20,799,74	16.424.56	**************************************	37,224.30	32,869,75	4.354.55
ВA	Nuku Bay		3,724.90		5,748.75	3,660.98	2,097.77
313	Ninilchik Aviation Field	4,024.00	384.18	*****	384.18	384.18	#,UV(.(1
řč	Kasliof Aviation Floid		674.52		674.52	674.52	***************************************
ίĎ	Kasllof Road		7.072.22	***************************************	7,072,22	7.072.22	**************
)o	Office and General Over-			1. 100			
	head	. 612,709.38	777.71	and of the course	513,487.09	. 248,385.45	265,101.64
11	Territorial General Over-						
	hend		*************	71.521.31	71,521,31	139,936,42	31,584,89
	Totals	\$14,532,308.63 lent of Agricultu	\$ 1,453,212.53 ire.	\$ 932.280.46	\$16,917,801.62	\$ 9,490,688.96	\$ 7,427,112,66
ichai	**_Abandoned. rdson Highway and Edger-		•	5 B		•	
to	n Cutoff*	\$ 6.382,755.19	\$	\$	\$ 6,382,755.19	\$ 2,731,876.49	\$ 3,650,878,70
	Highway*		14,873.22	39,943.15	1,473,783,83	1,028,837.20	444,946.63
	*-Included in above table			1000			

### COST OF MAINTENANCE.

The annual cost of maintenance of routes in Alaska varies considerably with the locality, the range of climate being greater than that of the United States, and the cost of labor varying greatly. The experience of this Commission indicates that for all Alaska proper, average maintenance costs, including a fair allowance for floods, etc., are about as indicated in table following:

5	Annual Maintenance	
Classification Mileage	per mile	Total
Wagon Roads 1,7071	≨ <b>\$</b> 300	\$512,250
Sied Roads 1.4033	4 25	35.094
Trails	<b>1</b> 9	71,840
Flagged Trails 712	3	2,136
Totals 11,007 }	\$ 56.45	\$621,320

The above does not provide for any improvements of extensions. The intermediate, or interior, sections of many of the through routes need improvement to the same standard as the rest so that the entire route may be used throughout by the same traffic without the necessity of breaking loads. A certain amount of new work on extensions must be provided for each year to keep pace with developments. This has only been possible up to the present time at the expense of needed maintenance work.

# INSPECTION.

The magnitude of the task and extent of territory covered by the wide-flung activities of this Commission may be realized from the fact that it would take two years of continuous traveling on the ground with the best facilities available for a single individual to make a complete inspection of the entire mileage for which the Commission is responsible. In view of the growing use of airplanes in Alaska more comprehensive and frequent inspections can now be made by the members of the Commission than was formerly the case. The President or Engineer Officer spend the greater part of each working season inspecting the field work and ascertaining the needs of all sections for transportation routes.

### FEDERAL AID.

The provisions of the Federal Aid Road Acts do not apply to the Territory of Alaska. The original Federal Aid Road Act was approved July 11, 1916, and was amended by the Act approved February 28, 1919. The Federal Highway Act of November 9, 1921, as supplemented and-amended, is now the basic law governing Federal Aid road work.

The extension of the Federal Aid Road Acts to Alaska has been proposed. In view of the fact that nearly 12 years before the Federal aid idea was adopted, the Alaska Road Commission had been created by Congress in 1905 to meet the special conditions in Alaska, had the

work well in hand; and in view of the further fact that the theory, specifications, methods, etc., of the Federal Aid do not meet the conditions in the Territory, Congress has instead increased the powers and appropriations of the Alaska Road Commission.

### DEPARTMENT OF AGRICULTURE.

The National Forests, administered by the U. S. Forest Service, are provided with a road system, the work on which is done by the U. S. Bureau of Public Roads. The territory served by this organization, comprising about 5% of the area of the Territory, lies mostly in Southeastern Alaska and could not be tied in with the rest of the Territory by a road system. The work of the two road building agencies is thus entirely distinct and no overlapping of work or effort exists or is possible.

### TERRITORIAL ROAD LEGISLATION.

The present road law in the Territory, known as the Cooperative Road Act, was passed on April 21, 1919 (Chapt. 11, Session Laws 1919). It was made necessary by the Federal appropriation for the National Forests, which could be expended only provided cooperative funds were appropriated by the Territory, the Department of Agriculture funds becoming available in the ratio of about three collars of Federal funds to one dollar of Territorial funds. Under this law the Territorial Board of Road Commissioners, consisting of the Governor, the Secretary, and the Treasurer of the Territory, was authorized to enter into cooperative agreements with the Department of Agriculture, the Alaska Road Commission, or other Federal bureaus, and to turn over to the disbursing officers of such bureaus Territorial funds to be expended by them upon the cooperative projects.

The Territorial Board was also authorized and directed to submit to the Legislature estimates for further work. The Divisional Boards consisted, as before, of one elected commissioner at an annual salary of \$2,500 and two appointed members who should be reimbursed for their expenses for such time as they should actually serve. The Divisional Boards, also, were required to submit annual reports upon January first.

This law further provided that after March 1, 1921, the Divisional Chairman should be appointed from qualified civil engineers in the Territory who should serve without pay and provided for two elected commissioners in each division who should receive a per diem of \$10 for such time as they should actually serve, but whose total compensation should not exceed \$1,000 in any one year.

The following Territorial lunds have been appropriated and expended to March 31, 1930:

APPROPRIATIONS:	
Forest Revenues to June 30, 1929	\$ 209,453.77
April 30, 1927, Shelter Cabins	20,000,60
May 3, 1917, Roads, Schiges, Trails and Ferries	460.606.66
May 3, 1917, Nizina Bridge May 1, 1919, Shelter Cabins	25,000.00
May 1, 1919, Shelter Cabins	5,009.00
May 1, 1919, Roads, etc.	375,000.00
May 5, 1921, Nizina River Bridge	-25,000.00
May 5, 1921, Seward Peninsula Railway	_ 24,014.90
May 7, 1921, Shelter Cabins	10,060.00
May 7, 1921, Roads, etc.	. 210,000.00
May 3, 1923, Tolovana Tram	_ 6,425.50
May 4, 1923, Roads, etc.	240,000.60
May 4, 1923, Shelter Cabins	_ 15,000.00
May 5, 1923, Kaltag Portage Survey	312.72
April 30, 1925, Roads, etc. April 30, 1925, Shelter Cabins	. 260,000.09
April 30, 1925, Shelter Cabins	. 20,000.00
April 30, 1925, Telephone Lines, Seward Pentusula	
April 30, 1925, Pioneer Cem. Road	
Deposits from sales and refunds	422.25
May 2, 1927, Telephone Lines, Seward Peninsula	= 4,000.00
May 5, 1927, Roads, etc.	460,000.06
May 5, 1927, Shelter Cabins April 27, 1929, Telephone Lines, Seward Feninsula	. 32,286.63
April 21, 1929, Telephone Lines, Seward Feninskia	_ 5,000.00
May 1, 1929, Telephone Lines	_ 74.09 7,500.00
May 2, 1929, Yukon-Kuskokwim Portage	<b>320.000.00</b>
May 2, 1929, Roads, etc. May 2, 1929, Shelter Cabins	20,000.00
may 2, 1829, Shetter Cauns	20,000.00
Total appropriated to March SI, 1930	.\$2,82 <b>1,</b> 808.5 <b>9</b>
EXPENDITURES:	
Expended by Territory prior to April 1, 1921	\$ 684,239.64
Expended by Territory, April 1, 1921 to March 31, 1936	49,441,37
Supervised by A. R. C. 1921-1930	. 226.691.32
Expended by Territory, April 1, 1921 to March 31, 1930 Supervised by A. R. C. 1921-1930 Cooperative with A. R. C. 1920-1930	1.354.894.88
Cooperative with Forest Service 1929-1930	310,169.50
Total expended to March 31, 1930	\$2,625,436,71
Balance, April 1, 1930	196.371.88
Balance, April 1, 1930	\$2,821,808.59

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### TERRITORIAL BOARD.

The Territorial Board of Road Commissioners, as now constituted, is composed of the following:

Geo. A. Parks, Governor of th	ne TerritoryChairm	an.
Cash Cole, Auditor of Alaska	Secreta	ry,
Walstein G. Smith, Territoria	l TreasurerMemb	er.
Pohert J. Sommers	Tarritorial Highway Engine	24

### LOCAL COOPERATION.

Under the authority of the Territorial Cooperative Road Act, approved April 21, 1918, and the Act of Congress approved June 30, 1921, the Commission made additional cooperative agreements for the prosecution of work supported in part by Federal funds and in part by funds appropriated by the Territorial Legislature. In the first and second divisions, Southeastern and Western Alaska, respectively, no divisional chairmen were appointed during the past year, all available funds being allotted to cooperative projects. In the other two divisions, superintendents of the Commission were appointed chairmen of the respective Territorial commissions.

The President of the Commission continued to supervise certain public works for the Territory and the work of the Divisional Chairmen as well as the other work supported by appropriations of the Territorial Legislature. No Territorial road building organization has been maintained since March 1, 1921.

The following general road funds were expended on Territorial projects during the fiscal year:

COOPERATIVE ROAD PROJECTS:		•
Alaska Road Commission Funds	3	124,195.52
Territorial Funds		55,581.17
Miscellaneous Contributions	-	2,269,23
Total	.3	182,036.92
TERRITORIAL ROAD PROJECTS:		
Territorial Funds	3	10.642.82
Miscellaneous Contributions	٠,	5,\$59.90
Total	. \$	46,501.52
SPECIAL PROJECTS:		
Shelter Cabins, Territory, 2nd Division	\$	2.894.12
3rd Division		1.968.59
4th Division		3,314,13
Aviation Fields, Territory, 1st Division		3,600,00
2nd Division	-	7,539.42
and Division		12.352.00
4th Division		15,895,30
. Aviation Fields, Miscellaneous Contributions	-	7.069.45
Telephone Lines, Territory Nome Harbor, Territory	-	2.500.00
Volder Duke Territory	-	5.661.20
Valdez Dyke, Territory Gustineau Bar, Territory	-	381.00
Tukon-Kuskokwim Portage, Territory		16,500 60
		12,275.15
Tolovana Tramroad, A. R. C. Funds	: :	7,989.83
Seward Pennisha Tramway A. R. C. Sinds. Tolovana Tramroad A. R. C. Funds. Nizina Bridge, A. R. C. Funds	-	7,766.81
Total		
Grand Total	.\$	331,817.46

For the working season of 1930 (fiscal year 1931) the Territorial Board has allotted to the Department of Agriculture \$11,000 and to the Alaska Road Commission the following amounts:

Cooperative Road Projects	\$	<b>33,5</b> 90.00
Pereltorial Road Projects		29,750.60
Shelter Cabins		8,990,66
Aviation Fields		33,499.99
Telephone Lines		5,000,00
Nome Harbor		2,590.00
Vuldez Dyke		7,500.90
(Part at	ŧ	139 650 00

These amounts are held subject to the call of the Commission.

In addition to the above amounts \$6,387.00 for aviation fields and \$3,793.17 for shelter cabins have been deposited. The existing balance of \$14,969.72 in contributed funds includes \$1,039.35 contributed by the Fairbanks Commercial Club for improvement of the Fairbanks airport, and \$3,750.00 contributed by Willow Creek Mines for road construction.

The cooperative Road Act has worked satisfactorily under the

conditions imposed. Certainly, the amount of read work accomplished for the money expended has been far in excess of what would have been possible under separate organizations. Had the Territory attempted to expend its \$50,000 per division under an independent organization, nearly one-fourth of the available funds would have gone into overhead, salary and expenses of a divisional chairman and clerk, rent, light, etc. All of this service was furnished free by the Alaska Road Commission and at no additional cost to itself. In addition, the extensive plant and mechanical equipment of the Alaska Road Commission, representing a capital investment of over \$500.000. were furnished where available in the Territorial work without charge except for fuel and ordinary running expenses. Due to the extensive organization of the Alaska Road Commission, it has also been possible to apply Territorial money to outlying projects where the maintenance of an independent organization would have been impossible or prohibitive in cost. Finally, all available money is lumped together and expended upon a comprehensive system with a continuity in plans and a consistency in operations over an extended period of years.

The Alaska Road Commission, also, is a gainer, under the Cooperative Road Act. By having greater funds available, it is able to consolidate purchases and supplies and thus to secure better prices. Conflicts in plans and complications in operations are avoided. By having funds becoming available all the year round, the difficulties resulting from fiscal year appropriations beginning or terminating about the middle of the open working season are minimized, and the entire organization and conduct of operations, are rendered more flexible.

#### AVIATION FIELDS.

Aviation has had a very rapid development in recent years due to the large area of Alaska and scarcity of other means of transportation. While in the United States the use of airplanes may save hours or days, in Alaska, weeks may be saved on a single trip.

To keep pace with the development of aviation the Territorial Legislature has authorized since 1925, the expenditure of a part of Territorial road funds for the construction of aviation fields. The work is performed by the Commission under the existing cooperative arrangement. To date 61 fields have been constructed, 5 are now under construction, and there are 5 natural sites used at times for landing planes, on which no work has been done. (See map in back). Total expenditures to date are \$119,281.67.

Commercial companies operating in Central Alaska since 1925 have handled the following business:

320

t the sport, stion.

•	March 1.1923	TOLE
	to Feb. 28, 1930	to Feb. 28,1930
Plane miles	187,462	614,462
Passengers carried		3,615
Passenger failes		497.135
Mail and express	81.325	236.525

# CONSOLIDATION OF WORK UNDER THE COMMISSION.

The following additional duties have been imposed upon the members of the Commission by appropriate authority:

- (a) Effective April 1st, 1921, the Juneau, Alaska engineer district was created by G. O. No. 1, War Department, Office of the Chief of Engineers, Washington, February 21, 1921. The President of the Commission, in addition to his other duties, was appointed District Engineer; the other two members of the Commission were placed under the immediate orders of the District Engineer and the Secretary and Disbursing Officer of the Commission, was, in addition, designated as Disbursing Officer for the district. The Alaska district is a part of the North Pacific Division. Detailed report of the operations of the Alaska district will be found in the Annual Report, C. of E.
- (b) By par. 3, S. O. No. 50-9, War Department, Washington. D. C. March 9, 1921, and under the provisions of Acts of Congress approved June 17, 1910, and June 15, 1917, the District Engineer who is also President of the Commission, in addition to his other duties, has been detailed for consultation or to super-intend the construction or repair of any ald to navigation authorized by Congress in the Sixteenth Lighthouse District (includes the Territory of Alaska).
- (c) At the request of the Territorial government the President of the Commission supervises various Territorial public works such as roads, aviation fields, shelter cabins, telephone lines, flood protection, terminal construction, etc.
- (d) By informal arrangement, effective April 1, 1922, the President of the Commission agreed to act for the National Park Service, Department of the Interior, on certain matters relating to the improvement of the Sitka National Monument and the development of Mount McKinley National Park.
- (e) At the request of the Secretary of the Interior, the Commission made a survey and submitted a special report upon the control of Lowell Creek, Seward, Alaska, to protect government property in the vicinity from damage due to floods. By the act approved February 9, 1927, this flood control work was assigned to the Secretary of War who designated the Alaska Road Commission as the agency to carry out the work. The War Department appropriation act of March

23. 1923, included funds for the work, which has been completed.

- (f) At the request of the Quartermaster General of the Army, the Commission disburses funds and generally supervises the administration of the Sitka National Generally created by Executive Order of June 12, 1924.
- (g) At the request of the Commanding General. Ninth Corps Area, the Alaska Road Commission has undertaken a survey and report on a water supply for Children Barracks, the only Army post in Alaska.
- (ii) Supervision and inspection on behalf of the Federal Power Commission of the hydro-electric development at Eklutna.
- (i) Construction of a float for Government boats at Juneau. This work has been undertaken by the Commission at the request of the various departments interested and with the approval of the Chief Coordinator. The cost of the work will be defrayed by the departments which will be benefited.
- (j) Under Special Orders No. 161, dated July 12, 1929, the President of the Commission was assigned to duty as instructor for reserve officers in the Territory of Alaska.

#### CONSOLIDATED ENGINEERING ORGANIZATION.

The practical result of the foregoing orders has been the development, without legislation, but through executive order or interdepartmental or inter-bureau agreement, of a practical working arrangement through which the facilities of all the services involved are used interchangeably, but a careful account is kept so that each appropriation is eventually expended for the purpose intended by Congress and no appropriation is either increased or diminished by such interchange if working funds or facilities. Separate accounts and reports are remiered to the departments under the direction of which the work is performed. As a result of this coordination numerous public works have been conducted in an economical manner and without the large tyerhead that would have been necessary if they had been performed to several different bureaus.

The following are the current activities under consolidated engineering direction:

The construction, repair, and maintenance of federal roads, trammaps, ferries, bridges, trails, and related works, now aggregating over-19400 miles, and extending from open-all-the-year-round south coast parts to all inhabited parts of the Territory; Territorial roads, bridges, ferries, aviation fields, telephone lines and trails throughout the Territory, covered by cooperative agreements; Shelter cabins; Nome-Shelton Tramway '74 miles operated by cars drawn by motors or by dogs': Tolovana Tramway; Valdez Dyke; Yukon-Kuskokwim Portage; Government float at Juneau.

Improvement of Nome Harbor; Improvement of Wrangell Narrows: Improvement of the Tolovana River; the preliminary examination or survey of Ketchikan Creek, Fort Alexander, Resurrection Bay, Sitha Harbor, Dry Pass, and Nome Harbor; flood control Salmon River; the investigation of port facilities; the issuance of permits for fish traps and other simurates in the navigable waters along the Territory's 26,000-mile coast line; miscellaneous inspections, public hearings and contingencies of Rivers and Harbors; improvement of Sitka National Monument; development of Mt. McKinley National Park; improvement Chilkoot Barracks Water Supply: administration of Sitka National Cemetery; control of Lowell Creek; maintenance of aids to navigation in Nome Marbor, Safety Harbor and Gastineau Channel Bar; and the inspection of power plant construction at Eklutna.

### ALASKA TRANSPORTATION PROBLEMS.

In order that the difficulties of transportation within Alaska may be fully appreciated it is necessary for one to visit the Territory and to traverse part of it not yet provided with roads or trails. To one gifted with a good imagination the following brief description will indicate the difficulties in part:

Alaska is a frontler country of vast area, about one-fifth that of the United States proper. With its population of about 30,060 whitsa and an equal number of natives it is in about the same stage of development as was our great western frontler at the time just preceding the Civil War. There are many reasons why Alaska will not develop so rapidly, however, one of the most important of which is the treat difficulty encountered in transportation.

This is essentially a country of very bold relief. Along the entire southern coast line, from Portland Canal east of Ketchikan to False Pass at the southwest extremity of the Alaska Peninsula mountain ranges rise, abrupt and rugged, direct from the sea. This continuous chain of mountains along the coast has done much to retard the development of Alaska since it presents to the visitor a forbidding and discouraging aspect and it has always greatly increased the difficulties of access to the interior.

Beyond these mountains there lies a broad stretch of rolling upland country comprising the valleys of the Copper, Susitna and Nushagak Rivers. The two first named are the only rivers of any size that break through the continuous chain of coast ranges to drain into the Pacific Ocean. The Nushagak flows parallel to the coast