which of repair parts and replacement units must measurely be gaite large and highly diversifies with correspondingly large investment and requirements for storage epoce. Same of the shope are provided with accollect manufactured, obtained at little or no epot from whiteey respins, so that when the recommeny materials and grafferom are available many of the account parts can be made at the site.

The simple load Commission, as a ratter of policy that is boing postimuse, and communical facilities for the purchase of repair parts just as for as the communical facilities would stock them. For execute, the Sordhese Communical Company, the distributor for Interpillar in the Torritory, series very closely with the Clasks load Commission in the stocking of parts. For a number of years all frequently used Catappillar parts have been bought through this company rather than stocked in clasks hood Commission servicement. Also seek things as these and betteries have been purchased in the special things as these and betteries have been purchased in the special content of the balls ordered through CSA. These practices have reduced ANC large.

The extractly cold weather, as such as -70°F., that prevails during the minter in sees about, makes it especial that were storage by provided for the working equipment throughout the winter months. Live storage space is required for even resonal equipment that say be needed at any time on short notice. Seed storage space and serving space for previous for the equipment not used during space for previous is required for the equipment not used during the winter.

count of the social construction and maintaneous equipment now count by the formal in linear was purchased asso. Secrit all of the stop equipment and specially thems, much as growes and some place, have been acquired by transfer from the military appoint effect because account to their monds. Howe of the mailer facilities are marriaged automateally from military marphages. Howe of the equipment obtained by transfer one call was marphages. Howe of the equipment obtained by transfer one call was as of the equipment of distance and about and sions, and of experience of which was a country and along the part of the experience and along the country are country and important some resortal program, including such analysis are country and important some resortal program, including such analysis for an expectation are resortal program, and along, the analysis are place.

Tournes of limited funds, budgetery sectrictions, and other reasons, it has been difficult to obtain the quantities and kinds of equipment best mated to the work and conditions when needed. It has governally been increasely to mindrate about helf of the items from the requisibless for new equipment that district engineers have

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sekcitted each year. These conditions have proverted long-mage planning and produced on the backs of actual and and economy. Landson, it has been exposery to operate on expensit of a "make-to" backs. As a result seen equipment units have been repaired and keet in corrige emissionally beyond their accurated lives.

conformed approach construction. It is pleased to substitute the conformat construction. It is pleased to substitute the conformat suched for the force account method of construction to the conformat says no longer be needed for construction but is too large and conformation to be adapted to ordinary maintenance work. So now beauty construction equipment has been purchased for about five years and consequently, next of that new on hand is fast approaching a serm-out consistion. Any units not moded should be declared excess or be consequently.

It is recommended that a comprehensive and detailed study be note of the entire situation in Region 10, with respect to equipment and shape. The study should include the following phases:

1. A complete invasiony of all prosently exact construction and printengate ecoloposis and a transage imposition of all each equipment by a comparant ecoloposis specialist to encertains (1) its present condition, (2) extinated exact of repairs and evertual to put and palestain it in extinfactory condition for use, (3) estimated further corride life, and (4) the edvicability of retaining it in corride or dispersed of it. A very expressative investory of the construction and maintenance equipment has thready been made and in. Stavart, of the regional of loss staff, and the various district mechanics have a very infinite browledge of the condition of the individual units of equipment.

i. A complete inventory of all repair parts and replacement emits new in stock of the vertices shape and scape. It has been the practice to perindically examine parts and replacement unit inventoring and to sail items expens to made. Nost of the districts hold one or two sales a year for the purpose of disposing of surses items. Engion 10 has an inventory of the parts and replacement units new on hand.

J. An improcium of all alop, aborago and living approve familities to debutains timir adequaty and the cost for providing new familities and for expending, would ling or reconditioning existing familities. This should include a study of all step equipment, suchingsy and tools. Each as impostion is under my at this time with a view toward determining a priority list for improvement or replacement.

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A. A long-range engineering study and planning of anticipated future construction and salutaneous programs, and on the basis thereof, a defermination of impatiate and long-range requirements for equipment and incliftion. One of the questions involved here is that of the saluration which force account construction of piecess reads on the Pederul-aid system, of farm reads for the Territory, and of development reads for the Fernat Jordan plantic, is to consider. Some of the pros and come of this question will be discussed in a separate necessaries.

5. Investigation of the evallability of commercial facilities for providing parts, replacement units and shop parvioss. It is understood that about everything he already being done that one he done tended atilization of existing commercial facilities for parts and shop services. As fact as adequate parts inventories or shop corresponding operations become available from commercial courses, the corresponding operations or stocking by the invent are discontinued. However, the chady should not be limited to existing familiation but should include discountains and appraisal of the desirability of encouraging the development of additional commercial facilities.

6. The possibilities of concentrating on a ministra of spices, ed bliede etlan ven galveery and transpiepe to mente bas aleben explored in order to reduce the parts problems and the training of eperators and mechanism. In a delition the practice new in order to some entent in the diald of compensating earthin cakes, models and of boundary ad bloods spiritual aintree at descripe to sorts minimum time parts and training problems and permit "countibalinies of parts in energenties. The Alaska hous Commission was beginning to solieve a fair assout of etenderdisation in equipment makes and sodels but hed a very difficult time in so doing. This standardiestion has been tjoch in the recent purchases and eines Public Reads took over, and the apeabling will have a serious affect on the operations, purificalarly with respect to becay duty grades and ciatler equipment. The besis problem, of course, is the conjuntative bidding respiraments for Grantmont procurement, but the special conditions in dissis wight provide tufficient justification for exceptions from the generally applicable loss and regulations.

The field work involved in this proposed comprehensive study should no doubt be done by keplon 10 personnel if sufficient competent people are evallable, or can be furnished to accomplish it.

Assistance from the Washington office in the planning and over-all direction of the program abould be provided and the findings and recommendations should be reviewed and approved here. Representatives of the Sashington office should make sufficient field investigations and combacts to be in a position to intelligently review and act upon the findings and recommendations when received from the Field.

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Prom the above discussions, it will be evident that made of the week required for the study has already been done by Segion 10 or is being done on a continuing basis. That is preded now is for Engine 10 to assession whatever additional factual data are sequired and these prepare a comprehensive report of the findings and recommendations. The report cheals then be reviewed in the effice and, ofter discussions with begins 10 personnel, the assessory declaims should be made to develop and put into effect a planned large reage and speteration progress for providing the equipment and finditions required to take ours of the made in the

It is fublic foods objective, of course, to get the Territory to establish an adequate and elective highest department on some as pussible and these have that department take over the Federal-ald consistential and entitlement activities as repidly as it is in a position to do so. Some take objective is accomplished, which will not dealt be a gradual reties them a suchee process. Fublic Sends will be languar have mend for court of his equipment and institution. This should not near, however, that accoming does now should be considered as a temporary expedient. Instead, owny responsible offert should be annealed to ball up a wall-planted, wall-captional, call-caption, experiment and plant that can so transferred to the territorial highest department as a gring transfer that can no transferred to the territorial highest department as a gring transfer that can no transferred to the territorial highest department to the territorial highest department to the territorial highest and make the constant response to operate when here

Or several hundred thousand delices worth of new maintenance equipment (no compression explipment). Action on this requisition spinished not be delicated prediction about not be delicated prediction and from mentioning the compressive study. Instead, if the requisition to responsive and from my available, prompt approved the requisition to subscript that the equipment will be artically smallable for obliquent on the first book to also in the spring. If shipment about be delicated to a later book, ment of the short working somes will be last. It is believed that the requisition about to accusted to the instruction and inintegrand Divinion for consideration as to reasonablesses in assessing with articlepted work progress and approached be expectedly because of the information we have already gained required in the equipment vituation and month in the appropriate and

EEChristennen: Inc

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Er. Palmer

Mr. Christensen

Mr. Williams

Mr. Schart P

alaska ( stand)

DEPARTMENT OF COMMERCE
PUBLIC ROADS

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WASHINGTON, D. C., AUGUST 12, 1957

E. H. SWICK PUBLIC ROADS JUNEAU, ALASKA

ADVISE BY TELETYPE AMOUNT FOREST HIGHWAY OBLIGATIONAL AUTHORITY RELEASE

NEEDED FOR MAINTENANCE TO DECEMBER 31, 1957.

E. J. MARTIN

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EJMartin:rsg cc: Mr. P. F. Royster Chron. File

> OFFICE OF THE FEDERAL HIGHWAY ADMINISTRATOR

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BU OF PUBLIC ROADS

Gee Park & Parkevay John, Book for covering menof Spot 57 & Swick August 7, 1957

Mr. Paul F. Royster Acting Assistant Commissioner for Operations Bureau of Public Roads Washington 25, D. C.

Dear Mr. Royster:

In conformity with Section 107 of the Federal Aid Highway Act of 1956, which provides for the transfer of the functions of the former Alaska Roads Commission to the Bureau of Public Roads, hereafter the PS&S funds for road projects in the Alaskan areas administered by the Service will be allotted to your Bureau. In have an unobligated balance of \$35,144 of prior year PS&S funds available for transfer. This amount will be in addition to the PS&S funds to be provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the same of the provided for work proposed by the provided for work provided by the pr this connection, our Region Four Office informs us that they will PS&S funds to be provided for work proposed by the 1958 fiscal year program. The \$35,144 will cover the \$30,000 recently requested by representatives of your Bureau to cover surveys on the 21-30 mile section of the Mount McKinley Park road this summer.

The \$35,144 will be allotted to you in the near future.

Sincerely yours,

(Sgd.) E. T. Scoyen

E. T. Scoyen Associate Director

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X Travel Book - Veneral August 6, 1957

Mr. G. M. Williams

M. B. Christensen

Alaska Trips of Messrs. Christensen, Palmer and Wall (Highway Status and Design and Construction Problems)

During the period from July 4 to July 19, inclusive, Mr. J. L. Palmer of the Maintenance Branch, Mr. J. H. Wall of the Construction Administration Branch, and I made a trip to Region 10 to inspect the roads, visit the offices, shops and camps, and discuss Alaska road problems with Public Roads personnel and others. Although the primary purpose of the trip was to consider construction and maintenance matters, many other phases of the Region 10 activities were observed and discussed. The trip was timed, at Mr. Swick's suggestion, to coincide with a territory-wide trip that he and Mr. Niemi were making for similar purposes.

Attached are separate reports prepared by Messrs. Palmer and Wall. These reports are supplemented to some extent by comments below. In addition, I have submitted a number of separate reports covering in considerable detail. some of the features and problems observed and discussed on the trip. Similar separate reports covering other features and problems will follow soon.

Mr. Palmer's report lists the principal highways over which he and Mr. Wall traveled. With the exception of the Alaska, Taylor and Nabesna highways, the Tok Cutoff of the Glenn Highway, and part of the Edgerton Highway, I traveled over the same mileage. While they were going over this excepted mileage, I went to Nome with Messrs. Swick and Niemi where we drove over the travelable mileage on the route northwest of Nome toward Teller and as far as Solomon on the read east of Nome, including the two ferries. Messrs. Swick and Niemi went to Kodiak Island also but those of us from Washington spent the time traveling from Valdez to Anchorage and going over secondary roads in the Matamuska Valley near Palmer. Messrs. Palmer, Wall and I also went over most of the Glacier and Douglas Forest highways and many of the other roads that could be reached by car from Juneau.

We did not see the Denali Highway, the portion of the Richardson Highway between the Denali and Gakona, the Haines Cutoff, the Copper River Highway, a number of the forest highways in the Panhandle, and a considerable part of the secondary road mileage. Nevertheless, it is believed we did travel practically all of the most important roads and a sufficient mileage of the remainder to get a good understanding of the highway situation and problems in Alaska.

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Mr. Palmer and Mr. Wall both mention the lack of shoulders on the main highways. These highways were originally designed to have a 20-foot bituminous surface with a 2-foot shoulder on each side. The surfacing was actually placed over the entire 24-foot width, however, thus leaving no shoulders. It is, of course, desirable to build adequate shoulders as soon as funds can be made available for the purpose.

With respect to the gravel and earth roads, it should be noted that the natural material over most of interior Alaska is silt with occasional areas of gravel. There is practically no clay or other natural binder available. Much of the gravel is located in river valleys that have been dredged so that the gravel has been washed clean. Most of the existing gravel and earth roads have been built by the force account method and the Alaska Road Commission had no crushing or screening equipment available, consequently, these roads consist largely of silt roadbeds covered with pitrum gravel with considerable oversize and little or no binder. Furthermore, much of the mileage of these roads lies in localities where permafrost is only a few inches under the surface of the natural ground.

It should be understood that the gravel and earth roads are in general located in areas that are largely uninhabited and that they were built primarily to provide access for mining operations or to open up the territory for homesteading or recreational purposes. Traffic is light but increasing. Bituminous treatment or surfacing of some kind would be desirable to preserve the roadbed and gravel and to keep down the dust, but nevertheless, the roads in their present condition are serving their intended purpose reasonably well. In considering the design of roads in Alaska, other than the main highways, recognition must be given to the above conditions and to the fact that funds are very limited and the mileages to be improved or initially constructed are great. Another factor to consider is that all asphalt must be hauled by boat from the States and then transported long distances inland by truck so that costs are high.

The main highways are generally in good condition and reasonably adequate to provide for traffic needs, although, as described by Mesers. Palmer and Wall, there are some deficiencies and other conditions in need of improvement. A seventy-mile section of the Alaska Highway extending westerly from the Canadian border remains to be bituminous surfaced and a few substandard bridges are in need of replacement. The sections of the Alaska and Richardson highways that have become distorted because of permafrost conditions, inadequate drainage, or back of reconstruction to adequate standards before surfacing should be rebuilt or improved soon.

An undesirable feature not mentioned by either Mr. Palmer or Mr. Wall is the unsightly condition existing along the roadside on many sections of the highways as a result of the general practice of merely pushing the clearing and grubbing debris into the trees or into a window along the outer edges of the cleared areas. The difficulties involved in disposing of the trees, brush and stumps by burning are recognized. There is no apparent reason,

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however, why the unsightly piles of trees, brush, stumps, boulders and direct could not have been leveled off and placed in a much more presentable condition at relatively little cost. The condition will be improved eventually by becoming overgrown with vegetation but is quite unattractive during the intervening two or three years. It is recommended that on future construction provision be made for cleaning up and otherwise improving the roadside to whatever extent is reasonable. It may be feasible for maintenance crows to do some improvement of the roadsides along the existing roads.

It is proposed to reconstruct to a four lane standard the first six miles of the Richardson Highway at the Fairbanks end to meet traffic needs. This will involve some difficult right-of-way problems within and approaching the city. The most desirable location would pass over lands within the Alaska Communication Facilities reservation and it is questionable whether this right-of-way can be obtained without extreme difficulty, if at all. Difficult location and right-of-way problems also exist at Anchorage and Juneau with respect to the primary Federal-aid routes. In fact, there is no readily apparent way to locate and construct a highway to reasonably adequate standards through Juneau without destroying much of the town.

Unusually favorable weather for highway construction had prevailed in Alaska this year up to the time we left. As a result, nearly all construction was considerably ahead of anticipated schedule. Such rapid progress had been made on bituminous surfacing operations that the supply of asphalt at the Valdez tank farm had become exhausted. A tanker bringing another load from the States was due to arrive about July 20. In the meantime asphalt was being hauled from Anchorage to continue the work.

Insofar as Mr. Palmer, Mr. Wall and I are concerned, the trip to Alaska and time spent there are considered to be very much worthwhile and a wealth of information was gained that should be very helpful to all Washington office personnel concerned with Alaska activities. In addition it is believed that some contributions were made that will be helpful to the personnel of Region 10.

We were very favorably impressed by the Region 10 personnel with whom we had contact, which included practically all of those in key positions and a number of lower grade employees. He were particularly impressed with the excellent detailed knowledge and understanding of the situation and problems in Alaska that Mr. Swick had gained during his few weeks assignment there.

Attachment

MBChristensen:lmc

cc - Mr. Swick

Mr. Erhart

Mr. Christensen

Mr. Willia ms