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A co-operative laundry will also be of great value to the village, in that it will give us the power to compel them to be clean and sanitary. I think that Deering, Alaska, Feb. 19th, 1915. Mr. W. T. Leppa buy a complete laundry equipment at Nome for a sum that could Chief of Alaska Division, hope we may have this very important addition to our school building Seattle, Wash.

Dear Sir: To be able to do the work that the village must do, we will almost be completely dependent on Mr. Shields, our beloved Supt. I have just left us after Kotzebue and the north store we have gone even better much of the matter of the moving of the Deering People to the new site on the Kobuk to be known as the Noorvik village. This village will have a population of about 350 people to begin with and we will have in the school something like a hundred children to begin with. We use it to help some other place get a start I should like to have put our whole life in this move for we believe that it will furnish the key to the solution of many a vexing question in these parts. Our people are fully aware of the hardships attached to the proposition and are quite ready to undertake it. They are anxiously awaiting the time to come when they may make the hope a reality. With a Noorvik, if properly financed will be the great center for all the work in this north land. It is so located that it is out of reach of the prevailing evils and will not be so far away as to render it expensive. The reservation will relieve us of any embarrassing tenants and we can have a free hand to develop the native as far as he is able to comprehend. We have just had our annual election of village commissioners, and this time in anticipation of the move to Noorvik, have elected them for 2 years instead of one. This commission form of government as applied to Deering village has met with all the success anticipated, as law infringements are wisely handled and everyone is satisfied. The village will move almost to the man, as he is now and I am not prepared. The Cold Storage Company has been a great help to enlighten the people on general business methods, and we are planning several enterprises for the new home.

The first and greatest need is the saw mill to help us to get the needed lumber for our houses and then it will help to develop the boat building and furniture making business. These will

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A co-operative laundry will also be of great advantage to the village, in that it will give us the power to compel them to send it in on the first boat, C.O.D. we would greatly appreciate it.

With the care of six reindeer herds and the school and the industries the he worked out, I feel that I should have at least ter in hand he could buy a complete laundry equipment at Nome for a \$125 a month and that I must have some help in the school room besides sum that could be met reasonably. I hope we may have this very important addition to our school building.

Mrs. Replogle. I think she should be appointed for 8 months and that she can go on with the school when I am not able to be there. I really don't see how I am to do very much teaching with all the other work I will almost be compelled to have a store. I should be very glad if the Gov. could put in a store and pay the native labor with provision and let them have some share in it as well. There are some of them now who have some cash and they would like to put it into a business some way. If the Gov. could put in say \$1000 and give the people a specified time to repay it, and then use it to help some other place get a start I should think it would be money well spent.

But for the year I must have a man for general work and one more teacher and could you send Mr. Ward McGowaby his wife this fall? We will try to learn to do some tanning of the waste reindeer skins, those which are killed in the season when the hair is help and they will be able to fill the need at this time. It is also to long or is shedding. These skins will make good moccasins and we important to do all that can be done at once so as to get full control of every condition. If we are to have a good winter we must have a good beginning, we may never be able to get the situation in hand again.

With all the industries we have not overlooked the chance of gardening. With the new plan of reindeer herding we can have ample time to grow all the vegetables we need for the village, after study of conditions and measure my conclusions as to the kind of building that is the most serviceable in this country.

soon develop it. The heating plant should be a good hot water plant. We are asking for a light wagon to haul the freight. They are a success and have been tried out here at Igloo this year from the river landing to the top of the hill where we will have the school and village. The Noorvik school will be built for school and village. We will use deer to it a four deer team or if needed six deer and we can show the people what a reindeer is worth when properly used. The Reindeer Fair at Igloo this year has opened the eyes of some of us to the possibilities of this remarkable the solid comfort to be had from the regular heat, and smokeless rooms little fellow. Mr. Shields asked me if I proposed to use him to plow and I am not prepared to say we will but neither will I say that we will not try him out in every way that we can think of. So don't fail to send us the wagon.

We are asking for 6 baths for the basement of the school house where we can make the people take a real bath. It may make a difference at first but we will be clean and folks at least. We wish to have the order for the Post Clock, changed to a Tower Clock which can be built into the building.

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send it in on the first boat, C.O.D. we would greatly appreciate it.

With the care of six reindeer herds and the school and the industries to be worked out, I feel that I should have at least \$125 a month and that I must have some help in the school room besides Mrs. Replogle. I think she should be appointed for 8 months and that she can go on with the school when I am not able to be there. I really don't see how I am to do very much teaching with all the other work I will have to do.

If it is at all possible can you send Mr. Wentworth over to put up the buildings. He cannot be secured before the last of Sept^r but I can have the foundations all in when he comes and then we can soon put up the buildings.

But for the year I must have a man for general work and one more teacher and could you send Mr. Ward McCumby & his wife this fall?

You can appreciate how much it means to get the right help and they will be able to fill the need at this time. It is also important to do all that can be done at once so as to get full control of every condition. If we are hampered and thus weakened in the beginning, we may never be able to get the situation in hand again.

Now as to the building: I have made a thorough study of conditions and these are my conclusions as to the kind of building that is the most serviceable in this country.

The heating plant should be a good hot water plant. They are a success and have been tried out here at Deering this year. Their economy is unquestioned. The Noorvik school will be there for many years and fuel will be a large item. The care and danger of stoves is eliminated. The racking and settling of the building from the often changing of temperature is minimized, to say nothing of the solid comfort to be had from the regular heat, and smokeless rooms.

Then the boiler will furnish the hot-water for the laundry and the baths.

We are asking for 6 baths for the basement of the school house where we can make the people take a real bath. It may make them sick at first but they will be clean sick folks at least.

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REQUISITION FOR THE LATE BOAT IN TO THE ARCTIC.

A small sized Planer and one sticker with shaper head and bits for standard mouldings.

One complete plant for heating the school house. By all means Delbert King, for details. The heating plant as used here in Deering this year has far excelled anything yet tried. Give us a Hot Water Plant

1 set stock and dies- to cut to $2\frac{1}{2}$ inches.

1 pipe cutter

1 anvil: (heavy, not a toy, they are useless.)

1 blow torch.

1 light wagon. This for reindeer. please send it. (d6.

1 set laundry machinery. Tub, slinger and mangle. Second hand will

1 3 H.P. gas engine for shop.

3 Carpenters adzs. (foot adz 4 in bit.)

1 brick layers trowel.

1 plasters trowel

10 BBLs. lime

20 BBLs. Cement. (portland)

2 Gasoline lanterns, for mill.

For the lighting system,

4 8 galon pressure tanks.

With pumps for each.

20 "Quicklit gasoline lamps."

Hollow wile

20 pcs. 25ft long.

20 " 15 ft. "

20 " 10 ft. "

50 Unions.

20 Taps

12 X'S

1 gross mantles

1 gross Generators.

1 gross Shades.

200 gal. high test gasoline. Low test soon gums the generator shut.

Sewer and connections.

600 ft 4in sewer pipe. with oakum and lead to calk.

3 Y's and 1---ell.

Flootings for the school house and the teachers quarters.

150 sq.yds. sheet asbestos.

1 ganitary couch, with pad.

1 Pull bed with springs and mattress.

6 Dining room chairs.

1 Dresser.

10 Yds/ Table oil cloth (White).

2 pieces Linoleum 12X16.

6 mirrors 12 X 17.

12 cupboard catches 3 in.

3 Doz. Drawer Pulls.

HARDWARE FOR THE SCHOOLHOUSE AND TEACHERS QUARTERS.

27 prs wrought Butts (Half Flush.) 4X4.

20 prs. " " " " $3\frac{1}{2}$ X $3\frac{1}{2}$.

40 lock sets (common)

2 sets locks for outside double doors. as per Plans.

1 set for outside common door.

4 sets double acting hinges for 2-6X 6-6. $1\frac{1}{2}$ in. door.

3 doz. Stair rail brackets.

1 set barn door hangers with 14 ft. track. For boiler room door.

20 prs. loose pin butts (Old Copper) $2\frac{1}{2}$ X $2\frac{1}{2}$.

6 Transom lifts.

2 doz locks for French windows.

2 Gross Coat hooks.

2 doz. door steps.

8 door checks for school-room doors. these are needed badly.

NAILS

(COMMON).

(1 kg. 60d.)---(2kgs. 40d.)---(4kgs 20d)---(1kg 16d.)---(1 kg 10d.)

(12kgs. 8d.)---(4kgs. 6d.)

(FINISHING).

(1 kg. 8d.)---(1 kg. 6d.)---(#25 box 16d. 4 inch finish.)

1 kg 3d fine, a lath nail.

1 bundle Galv. iron 22 gage for flashing

ESTIMATE
 BILL OF LUMBER AND MATERIALS FOR HOOVER SCHOOLHOUSE AND TEACHERS QUARTERS
 62 pcn 3 X 12 X 24 ft. 312(4).

Every thing must be done to make this a creditable plant for the people who have had any thing to do with it wish to be able to point with pride to their achievement.

Send us some kind of prepared roofing that will be reasonably durable, and that will eliminate the constant fear of fire and also the leakage so often found in a shingle roof.

I wish to call attention to the California Drop Siding, this is a brand of lumber that is good and looks like the old lapsiding we used to use but it is full on the back and lays flat on the studding.

You may think we are asking for too large a building but we now have more pupils than we can handle in the 4 rooms, but we can very soon prepare the upper auditorium and get 4 more rooms as good as those below. Note the basement story will be built of native timber stood on end and made tight as can be all around the building.

Please don't cut the building down if it is in any way possible to build it at all.

Now as to the pay of the natives, you will find an enclosure from the commissioners of the village who have thought out a plan to have a hand in the building of the school that is to give them their education. Their letter is sincere and to the point.

Can you send us an ample supply of such things as will be bought so that we can pay the labor in provisions? The store here is telling them that they will starve over there as there is no store for them to buy their provisions.

Here is an order from a native that he would like to have sent in with the Gov. supplies and he will work to pay the bill.

COMBINATION BED, SPRINGS, & MATTRESS. about \$10.00

1-- Seth Thomas clock 6.00

1 stove lifter .06

1 backwall for a kitchen range Imperial Windsor #68-18.

With hopes for the future I am,
 sincerely yours,

C. R.

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ESTIMATE BILL OF LUMBER AND MATERIALS FOR NOORVIK SCHOOLHOUSE AND TEACHERS QUARTER

62 pcs 2 X 12 X 24 ft. sized.
 298 " 2 X 12 X 18 ft. sized.
 2 " 2 X 12 X 22 ft. sized.
 62 " 2 X 12 X 20 ft. sized.
 62 " 2 X 12 X 14 ft. sized.
 3 " 3 X 12 X 34 ft. sized. (valley rafters.)
 1 " 3 X 12 X 18 ft. sized. "
 62 " 2 X 12 X 12 ft. sized.
 4 " 4 X 8 X 20 ft. common.
 2 " 4 X 8 X 16 ft. common.
 2 " 8 X 8 X 20 ft. common.
 2 " 8 X 12 X 24 ft.
 1 " 8 X 12 X 14 ft. common.
 126 pcs 2 X 8 X 30 ft sized. Rafters
 64 " 2 X 8 X 26 ft sized ceiling joists.
 35 " 2 X 8 X 22 ft. sized joists.
 70 " 2 X 8 X 18 ft. sized.
 44 " 2 X 8 X 20 ft. sized.
 30 " 2 X 8 X 16 ft. stair horses.
 3 " 6 X 8 X 20 ft.
 2 " 6 X 8 X 18 ft. common.
 2 " 6 X 8 X 16 ft parline plates.
 2 " 6 X 8 X 14 ft "
 5 pcs. 6 X 6 X 16 D4S/ #1.
 14 " 2 X 8 X 16 ft D4S #1.
 12 " 2 X 4 X 22 ft sized
 384 pcs 2 X 4 X 20 ft sized.
 47 " 2 X 4 X 18 ft. "
 80 pcs 2 x 4 x 16 ft sized
 100 pcs 2 x 4 x 14 ft sized
 224 pcs 2 x 4 x 12 ft "
 135 " 2 x 4 x 10 ft. "
 16 pcs 2 x 12 x 16 ft.
 128 pcs 2 x 6 x 14 ft truss.
 350 pcs 2 x 2 x 20 ft. sized.
 150 pcs 2 x 2 x 16 ft. sized.
 224 " 2 x 2 x 12 ft. sized.
 22000 ft 1 x 12 sheeting sized.
 14000 ft 1 x 4 flooring #1.
 50 pcs 2 x 3 x 20 ft sized.
 80 pcs 2 x 3 x 16 ft sized
 12000 ft 1 inch California drop siding (this is important.)
 30000 sq. ft. deadening felt. Heavy.
 25000 sq. ft water proof building paper. heavy.
 30000 sq. ft. interior wall board. instead of ceiling and paper.
 6500 sq. ft. heavy roofing.
 2400 ft. 4 in. "V" ceiling.
 10 pcs 1 x 12 x 20 ft. D4S.
 2000 ft 1 x 12 x 16 ft D4S finish.
 65 pcs 1 x 8 x 16 ft D4S finish.
 2000 ft long 1 x 6 D4S finish.
 1500 ft long 1 x 4 D4S finish.
 12000 ft 1 x 6 sized sheeting for roof.
 14 pcs 3 in. stair rail 16 ft long.
 1600 ft. long 1 x 8 D4S finish.
 800 ft long 1 x 6 D4S finish.
 44 pcs 1 x 6 x 16 ft D4S #1.
 12 " 1 x 6 x 12 ft. D4S finish.
 44 pcs 1 1/2 x 14 x 12 ft
 14 pcs 1 1/2 x 14 x 16 ft.
 200 ft long 1 1/4 x 12 stepping verticle grain.
 2000 ft long scotia, for around the base. 1 inch.
 50 ft long 1 x 5 threshold stuff.
 3000 ft 1/4 inch round.
 650 ft long 2 inch bed mould.
 650 ft 3 in. bed mould.
 850 ft 6 in. crown mould.
 250 ft long blackboard. or 10 gal. slating

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Page (2) of Estimate.

- 2 pcs 4 x 6 16 ft double rabbet for outside door jams.
- 3 pcs 2 x 6 x 20 single rabbet outside door jams.
- 2 pcs 2 x 8 x 16ft single rabbet for outside door jam.
- 4 pcs 2 x 4 1/2 x 18 door jams single Rabbet.
- 2 pcs 2 x 4 1/2 x 12 ft. " " "
- 4 doors 2-8 x 8ft. 2 1/2 inch.
- 6 pcs 2 x 5-3/8 x 14ft single rabbet jams.
- 26 pcs 2 x 7-1/4 x 16ft single rabbet window jams.
- 4 pcs 2 x 7-1/4 x 12ft " " " " " heads.
- 10 pcs 2 x 7-1/4 x 16 double rabbetted jams.
- 1 outside door 3 x 7 Glazed.
- 19 doors 2-8 x 6-8 stock.
- 5 " 2-6 x 6-6
- 5 doors 3 x 6-8
- 10 " 2-6 x 6
- 2 doors 3-8 x 6-8
- 1 " 2 x 6-8.
- 6 doors 2 x 6-8.
- 4 transom sash 2-8 x 2 Glazed.
- 20 sash 10 x 12 lights 12 light DOUBLE GLAZED strong sash.
- 1 sash 2ft 3in. x 3ft. DOUBLE GLAZED.
- 2 " 1ft 3in. x 3ft. single glazed.
- 20 sash 12 x 16 lights --6 light sash DOUBLE GLAZED/ see detail.
- 54 sash 12 x 16 lights 12 light DOUBLE GLAZED/
- 2 sash 9ft x 3ft 1in. 18 light sash DOUBLE GLAZED.
- 4 sash 1ft 7in. x 4ft 6in. 4 lights 12 x 16.
- 3 round sash 3ft in diameter 4 lights. glazed.
- 150 pcs 1 x 4 x 24ft rough, for bridging.
- 20 pcs. 2 x 7-1/4 x 14 ft. single rabbet. jams.
- 1 pcs. 2 x 7-1/4 x 20ft single rabbet. jams
- 20 pcs 2 x 4-3/8 x 16ft. single rabbet door jams.
- 6 bath tubs porcelain lined.
- 6 Porcelain Water Closets.
- 1 entire bath room set. For teachers residence.
- 1 Auto Spark for the 10 H.P. gas engine. also small one needed.
- 1 doz. 3ply chair bottoms. we will make the chairs and desks for the school rooms. as soon as we get the shop finished.

This estimate contains some extra in some of the items, as we are so far away from any place that we cannot afford to meet a shortage.

These plans are what we need and we hope you can grant them at once.

To wait for the sawmill for the necessary lumber to build this house would take one year and that would discourage the people so much that they would want to move back here again.

I should recommend strongly that you send in materials for a nice 5 room bungalow to be built separate from the main school building.

This to be occupied by the supervisor and he will have his office in the other building. You can appreciate the value of being alone in your own home sometimes and if we are to do this work we must have a place to get away for a little at a time.

The prospects for this school are such that it will not be over three years until we will have the building all in use for school room.

This village is the only salvation of the Native in these quarters. He is owned now by the trading companies and no hope of ever getting free except through the development of this plan.

Note our plans carefully before you send them on to experts who have little knowledge of the first hand needs of Alaska.

You are as capable of judging what is needed as any one I know of. and I leave to you if we have not offered good plans. Besides these plans are the result of many years of experience gathered by Mr. Wentworth who has drawn the plans and assisted in making the estimate.

We will use the boiler stack for a chimney and it should be 30 inch in diameter and 52 ft. high. we can then cut into it and attach where we have need. The asbestos lined box in which it ascends will serve as our ventilating shaft. The basement floor should be cement.

Please note the deadening felt for the prevention of noise. Time is very valuable in this country and the lumber gotten out to order will economize greatly. A small table saw with power will save at least 100 dollars in time on this one job.