ONTARIO
NORTHLAND
RAILWAY
DIARY

1903 -1908

C H RIFF

Commission accordingly endeavored to obtain such grades and curvatures as would be consistent with this governing idea, and the Commission's contracts have been entered into and their arrangements have all been made with this

Below is an estimate of the cost of the road complete with an appropriate equipment of rolling steck:

Grading, including trestle work, bridging, etc

Rails and fittings, ties, ballasting, telegraph line, track-laying, etc.

7,000 "

Reminals, sidings, stations, water-tanks, etc

1,755 "

Rolling stock

3,000 "

Having regard to the foregoing and to the liability that there always is of the most careful estimates being exceeded, the Commission felt it might be impracticable, although every effort would be made to keep down the cost of the road, to limit the expenditure to \$25,000 per mile, the limit of the bond issue stipulated in the Act, without adopting a policy which would be destructive of the whole character of the enterprise. In this connection it now seems necessary to make some provision for the operation of the road. Accordingly, it may be necessary later on to supplement the proceeds of the bond issue from some other source (unless the limit per mile of the bond issue be increased), and as neither the original Act nor the amended Act of last Session authorizes the Government to finance the enterprise in any other way than by the issue of bonds, it would seem prudent to make some provision for the raising of any additional funds that may be required.

TERMINAL ARRANGEMENTS AT SOUTHERN TERMINUS.

The matter of effecting a satisfactory agreement with either the C.P.R. or G.T.R. received the consideration of the Commission in the fall of 1902. and communications were addressed to the General Managers of the C.P.R. and the G.T.R. in this connection. The General Manager of the G.T.R. stated his willingness to enter into a joint agreement with the Commission for the construction and use of a line from Nipissing Junction to North Bay, including the putting in of a terminal yard and engine-house at the latter point, but that he would hardly feel warranted in going to the expense necessary for the establishment of these terminal facilities unless supported by an agreement for some fixed period of time, say, at least five years; that if the Commission thought it undesirable to enter into such an agreement he would suggest that an arrangement be entered into with the C.P.R. on a trackage rate for the use of the C.P.R. line between North Bay and Nipissing Junction -the Commission making deliveries to and taking business from the G.T.R. at the last-named point.

The General Manager of the C.P.R. expressed his willingness to permit the Commission to use the terminal facilities of the C.P.R. at North Bay. including the round house, station, yards and freight and passenger arrangements on terms to be agreed upon; and a committee was appointed to go to Montreal and negotiate with the C.P.R. and G.T.R. with a view of making terminal arrangements at North Bay or Nipissing Junction, or at both points. The Committee visited Montreal during the month of January, and the result of their visit was the execution of the agreement with the C.P.R. for

terminal facilities and services which follows:

THIS AGREEMENT, made the sixth day of April, one thousand nine hundred and three, between The Canadian Pacific Railway, hereinafter called "The Pacific Company," and of the first part; The Temiskaming and Northern Ontario Railway Commission, hereinafter referred to as "The Commission," of the second part;

Whereas, ature of the F railway from

And Wher right to run it: the Pacific Con the yard and te track and yard

And When the Commission

Now there; for itself, its si that is to say:

1. (a) The ment, subject to to use the Paci and North Bay

(b) And als last-named poin

(c) The use amongst other t station and yar away by the Pac and handling by ness of the Comi connection there

2. The Com granted of using sing Junction an rassenger train, or any other clas

3. For the to sion shall pay to cents per car for ilar charge for e Pacific Company freight destined taken out of the : of carload freigh Company destine taken out of the that the minimu to any one train be four dollars. that is, engines w tion to the above Company for the ton of freight har Bay and which is of the Commission telegraph onerato with the railway such operator is r

such operator.

1903

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\$29,755

y that there always is of usion felt it might be eep down the cost of the limit of the bond issue h would be destructive nnection it now seems he road. Accordingly, of the bond issue from nd issue be increased), last Session authorizes way than by the issue of the raising of any

RN TERMINUS.

with either the C.P.R. on in the fall of 1902, anagers of the C.P.R. anager of the G.T.R. with the Commission unction to North Bay, ine-house at the latter to the expense necesimless supported by an five years; that if the n agreement he would C.P.R. on a trackage in the distribution of the commission of the commissi

willingness to permit L.P.R. at North Bay, nd passenger arrangers appointed to go to rith a view of making ion, or at both points of January, and the with the C.P.R. for

il one thousand nine hereinafter called aming and Northto as "The CommisWhereas, the Commission is under the authority of the Act of the Legislature of the Province of Ontario, 2 Edward VII. chapter 9, constructing a railway from North Bay to Lake Temiskaming.

And Whereas the Commission desires to secure for a limited period the right to run its trains, both passenger and freight, over the railway track of the Pacific Company between Nipissing Junction and North Bay, and to use the yard and terminal facilities of the Pacific Company at North Bay, which track and yard facilities are hereinafter called "The Joint Premises."

And Whereas the Pacific Company is willing to grant the said right to the Commission upon the terms and conditions hereinafter contained;

Now therefore this agreement witnesseth, that the parties hereto, each for itself, its successors and assigns, hereby covenant and agree as follows, that is to say:

1. (a) The Pacific Company shall, during the continuance of this agreement, subject to the conditions hereinafter contained, allow the Commission to use the Pacific Company's track either way between Nipissing Junction and North Bay for trains, both passenger and freight.

(b) And also to use the yard and facilities of the Pacific Company at the last-named point.

(c) The use of the said terminal facilities at North Bay shall include, amongst other things, the use of switching engines, the services of all the station and yard staff of the Pacific Company, the making up and setting away by the Pacific Company of the trains of the Commission, the conducting and handling by the Pacific Company of all the freight and passenger business of the Commission at North Bay, and the ordinary station accounting in connection therewith, the Commission providing its own blank forms.

2. The Commission shall pay to the Pacific Company for the right above granted of using the track of the Pacific Company either way between Nipissing Junction and North Bay the sum of two dollars and forty cents for each rassenger train, and two dollars and eighty cents for each mixed or freight, for any other class of train, run either way between the said two points.

3. For the terminal facilities above mentioned at North Bay the Commission shall pay to the Pacific Company the following compensation: -Fifty cents per car for each and every car, empty or loaded, arriving at, and a similar charge for each and every such car leaving the North Bay yard of the Pacific Company in the trains of the Commission, except cars of carload freight destined to points on or via the railway of the Pacific Company, and taken out of the said North Bay yard in the trains of that Company, and cars of carload freight arriving at the North Bay yard in the trains of the Pacific Company destined to points on or via the railway of the Commission, and taken out of the said yards on trains of the Commission; provided, however, that the minimum sum that shall be paid to the Pacific Company in respect to any one train of the Commission arriving at or leaving the said yard shall be four dollars. No charge shall be made under this clause for light engines, that is, engines without cars which arrive at or leave the said yard. In addition to the above-mentioned sums the Commission shall pay to the Pacific Company for the same facilities the sum of twenty-five cents per ton for every ton of freight handled at the freight sheds of the Pacific Company at North Bay and which is destined to or which originated at a point on the railway of the Commission. The Commission shall also pay the cost of providing a elegraph onerator at the point of junction of the railway of the Commission with the railway of the Pacific Company (if the Pacific Company decides that ich operator is necessary) and the cost of the necessary accommodation for uch operator.

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4. The Pacific Company shall give the same care and attention and do the same work to the passenger and freight cars arriving at and leaving North Bay in the trains of the Commission as it does at that point to its own cars of the same class in similar service, including, in the case of passenger cars, any labor engaged and the use of any tools required in the cleaning and lubricating of said cars and in supplying them with ice water, fuel and oil and other materials for lighting and lubricating, and the Commission shall pay the Pacific Company for the same the sum of one dollar for each passenger and baggage car so cleaned and cared for, and also the actual cost, plus ten per cent., of any ice water, fuel, oil, waste or any other supplies or material furnished, and of any inspection and repairs to the said passenger cars, including labor and material (the cleaning in the case of sleeping and parlor cars to be what is known as "railroad cleaning"), and in the case of freight cars arriving and leaving North Bay in the trains of the Commission, the Commission shall pay the Pacific Company the actual cost, plus ten per cent., of any inspection and repairs made, including labor and material, and of any oil, waste or other supplies furnished to such cars by the Pacific Company.

5. The Pacific Company shall for and in consideration of the amounts hereinafter specified respectively which the Commission hereby covenants to pay to the Pacific Company, perform the following services and furnish the following supplies for or in connection with the engines of the Commission

at North Bay:

Handling, turning, housing and cleaning locomo-Coal, cost, including freight charges plus 10 cents per ton for accounting Oil, waste and other running supplies Cost plus 10 p.c.

- 6. Bills for moneys due the Pacific Company each month under Clauses two and three, four, five and seven or otherwise under this agreement are to be rendered by that Company as soon as possible after the end of that month. and the Commission shall pay any moneys so due within thirty days after the receipt of the bill for the same. If the Commission fails to make payment to the Pacific Company for thirty days after notice in writing from the Pacific Company to the Commission of such failure, this Agreement shall at the option of the Pacific Company cease and terminate.
- 7. The Pacific Company shall construct and maintain the necessary switch connection at the East end of the said North Bay yard, and the Commission shall reimburse the Pacific Company the cost of the same.
- 8. The Commission shall handle and move its train between the said switch connection and the North Bay yard, and between Nipissing Junction and the North Bay yard with its own engines and engine and train crews. entirely at its own expense. The enginemen and trainmen and other employees of the Commission when on its trains or engines or elsewhere on the joint premises shall be governed by the rules of the Pacific Company, and the movement and handling of the said trains and engines on the said premises shall be subject to the rules and regulations and to the directions of the Pacific Company.
- 9. The trains of the Pacific Company shall have preference on the joint premises over the trains of the Commission of the same or inferior class, and the trains of the Commission shall have preference over the trains of the Pacific Company of an inferior class.

r all amounts owing to him for rmed, subject, however, to the all such losses and damages as

per cent. of the value of the to the Contractor monthly on ch ties have been so delivered aforesaid, and the said certifit of the Contractor to be paid

The remaining ten per cent. he whole work to the satisfacnall be satisfied that all wages aid Contractor and of all Suball ties purchased by the Conwhereupon the Engineer shall emaining ten per cent., or the the Engineer shall be paid to be the granting of such final ritten certificate of the Engicontract as aforesaid shall be actor to receive or to be paid ereof.

s work, notwithstanding any satisfaction of the Engineer ted dates as above provided, liability to pay damages, pay to the Commission, dollars for each day which ted dates as aforesaid before to the satisfaction of the

thout the consent in writing e of, assign, sub-let or re-let t thereof.

premises, hereby covenants to time, and in all respects erein contained and on the paid on the terms aforesaid ove as follows: For Cedar ar cents; for Hemlock ties, ents.

nears in this contract shall irs, executors and administic Chief Engineer for the ing control of the work of

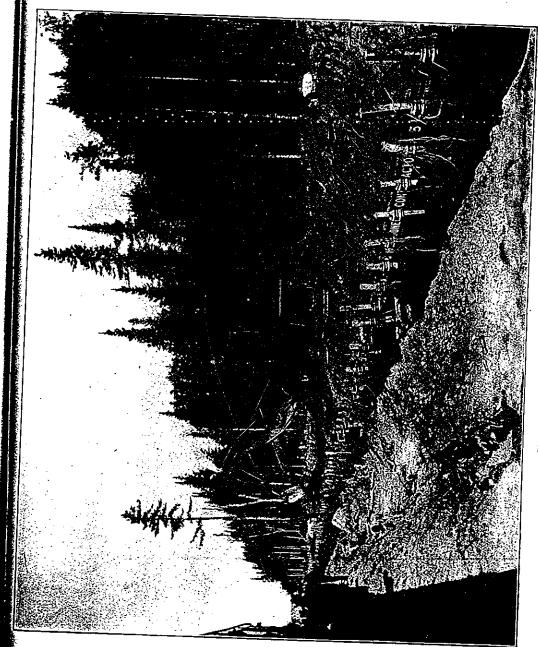
n duly signed, sealed and d by the said Commission t Chairman and Secretary.

E.
ING & NORTHERN
WAY COMMISSION.

(SEAL.)



man.



Steam Shovel Landing Bullast Train to to to D.

1904

PART III.

ROLLING STOCK AND EQUIPMENT.

Rental of Rolling Stock.

In the month of February the Grand Trunk Railway Company made application to the Commission to rent two locomotives which were then completed and stored at Kingston, and later extended the request to cover the four locomotives of the Commission. With the consent of the Government, the four locomotives were accordingly rented at \$10 per day each, the Grand Trunk Railway guaranteeing that they would be used only on such portions of their system as had the best roadbed and undertaking to return them in ample time for the requirements of the Commission, and subject to proper inspection of their condition on return. Under this arrangement engines Number 1 and 2 were under rental to the Grand Trunk Railway from February 12th to April 24th, and engines Number 3 and 4 from February 12th to April 8th.

The Contractor had before that time applied for the use of these engines and a number of flat cars, when the season for ballasting should open, and after the return of the engines from the Grand Trunk they, and flat cars, were landed over to the Contractor under the following agreement:

MEMORANDUM OF AGREEMENT made this fifth day of March, 1904, between ALLAN RANALD MACDONELL hereinafter called the Contractor, of the first part; THE TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION, hereinafter called the Commission, of the second part; and Thomas Long of Toronto, John J. Long, of Collingwood and the Honourable William Harty of Kingston, hereinafter called the sureties, of the third part.

Whereas, By Indenture dated the 3rd day of October, 1902, the Contractor agreed with the Commission to furnish all necessary materials, labor, which was not plant, and to execute and complete all the works required a connection with the building of the Temiskaming and Northern Ontario Railway according to certain plans profiles and specifications as in said Intenture is more fully set forth.

AND WHEREAS, the Contractor is required by the Commission's Engineer in pursuance of the terms of the said contract, to provide for the said work on said railway, on or before the first day of May, 1904, one additional steam shovel, with the necessary additional plant and appliances which the Contractor represents to the Commission would involve large expense to him in the purchasing or otherwise procuring of additional engines and flat cars in consequence of which the Contractor has requested the Commission to rent to him for use on the said work, certain engines and flat cars now being built for the said Commission.

ract shall be administrafor the time work of con-

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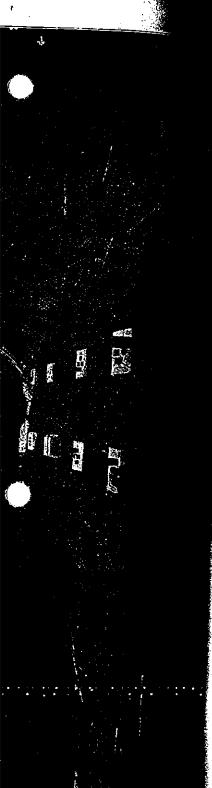
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townsite, and many parties, to get early on the ground, have put up ings. Rights of these parties will be respected as far as possible in mak-

subdivision. Cochrane.—Sufficient land for townsite and railway purposes has been gred at junction with National Transcontinental Railway. This townhas been named Cochrane. Detailed surveys are now being made so a proper relation may be established between station grounds and sub-Gided townsite.

Scikinika.—Surveys were made for land required for townsite purposes Scikinika Lake. Plans have been submitted to Department of Lands,

firsts and Mines for approval.

pane.—At Dane, formerly called Boston, land has been secured and are being made for townsite. Location will be at west end of road Larder Lake. There is a possibility of this becoming an importand traffic point.

TERMINALS (NORTH BAY JUNCTION).

Engine House and Machine Shop .- The Forest City Paving Co., consaurd work on their contract and completed machine shop and eight stalls of trine house. Side walls are up for seven additional stalls, and concrete has been put upon three of these. Concrete work in connection with engine pits in seven extra stalls has been completed.

Seldons, Limited, of Galt, Ont., installed hot air, blast system of heat-

the in above buildings. As far as tested, system works satisfactorily.

Two 75 h.p. boilers have been set, to furnish power to machine shop equipment, and supply steam for heating coils, over which air passes to the

in connection with heating system.

In addition to equipment, which is now being moved from temporary machine shop, new building will be equipped with one 50 k.w. generator with direct connected engine, air compressor, 40 h.p. stationary engine, detting machine, lath polishing wheel, etc.

Foundations for all machines are of concrete.

Blacksmith Shop.—Under contract with Clarke and Monds of Toronto, a concrete blacksmith shop 30 ft. x 60 ft. was built. This building is completed with exception of waterproofing of roof. Forges and other machines are being installed.

Turntable.—A 75 ft. turntable was supplied and placed in position by the Locomotive & Machine Co., of Montreal. Concrete pit required in con-

extion with this table was built by the Forest City Paving Co.

Coal Shed and Trestle .- Messrs. Wyse & Middlemist, of Toronto, completed their contract for coal shed and trestle in April. It has been in succonful operation since that date.

Water Supply.—Under contract with the O'Boyle Bros., Contruction Co. of Sault Ste. Marie, Ont., 40,000 gallon standard tank was built near

we engine house.

An agreement was entered into with the Town of Nort Bay for supply of water. Pipes were laid from end of town system, at corner of Railway and Solf Sts., to tank. Meter was placed in the supply line.

Distributing system to the different buildings, engine pits, etc., was

installed by our Mechanical Department.

Hydrants have been placed on this system, and thus good protection from fire is afforded.

Tank in east end of yard is kept in order so that in case of failure on Mrt of town to provide water we will not be left without supply.

Mills Memorial Library COCATION GUIDE

NORTHERN ONTARIO RAI

ENGLEHIA

Supply.—To obtain a quick, locomotive purposes, it was nec River to tank, a distance of a tank is about 95 ft. Pump and bridge, and necessary pump a operation.

ecure a supply of pure water i drive one deep well. After ca Wright Bros., of Petrolia, und me of station and west of track. water was struck in limestone

, analysis of the water from this for domestic use; but slightly ha niposes. The addition of a sm suitable for any purpose. The e per hour.

results from well No. 1 were so farther north. Location mad main line. Rock was found at

and quartz at 305 ft. manalysis of water from this we nom well No. 1. It is not as har and gallons to make suitable for 600 imperial gallons per hour.

both these wells the strata abo The casing varies from ten in

of well. is intended to put down a third the three sufficient water for a wase of obtaining water from the oping from river, and plant at pres

Grading .- All grading, ballastin dwas done by A. R. Macdonell ur Cattle Pen. - A cattle pen 30 ft a vites etc.

Bru

Our regular bridge gang was airs and keeping the numerous tre At the following points permane and the track ballasted over th

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On all open culverts between N permanent ballasted decks.

Drainage.—Complete drainage system was provided to take care of waste and surface water. Pipes are double strength vitrified so that trad may be laid over them to any part of yard.

Stores Building .- Under contract with the O'Boyle Bros., Construction Co., concrete stores building, 30 ft. x 106 ft, containing two stories and but ment, is being built. It is situated along our line between North Bay Ja and Regina St. Delay in delivery of steel work prevented this building being roofed in before the severe weather. Will be completed next season.

Freight Shed.—Concrete floor was placed in new freight shed, 30 ft. 170 ft., which was built last season.

Chippewa Creek Bridge.—The Locomotive & Machine Co., of Montred. supplied and placed in position steel span across this creek. This was does in the early spring.

Road Diversion .- The dividing road between townships of Ferris

Widdifield, crossed the centre of our terminal yards.

During the year this road was closed by permission of the township, and two roads opened to take care of traffic. The first, which serves people going to Callender and other southerly points, now crosses main line just north of north switch and does not again come near the track.

Arrangements were made with the Grand Trunk Railway Company, who own a large block of land south of the Canadian Pacific Railway, between Chippewa Creek and road between Widdifield and Ferris, to grant a roadway along their southwest boundary. This was graded, bridge was built across Chippewa Creek, road graded across lot 914, facing Monck St., and the good entrance made to the town. People living along the lake shore now cross the Canadian Pacific Railway at Golf St., as formerly, and from Monci St., south of the C.P.R., use the roads and bridge provided by the Commission to reach their homes.

ENGLEHART.

Engine House and Machine Shop .- It was well on in June before the Forest City Paving Co. again started work on their contract for these buildings. The weather during May and early part of June was very cold and backward. On May 28th, there was a snowfall at Englehart of about nine inches.

On account of soft nature of ground it was necessary to pile all imports ant foundations.

These buildings are enclosed. The boiler, heating system, engine. have been placed in position and steam connections are at present being made The curbing on top of five engine pits will be at once placed in position and that engines can be housed for the winter. On account of late date on which concrete roof over last three stalls of engine house was completed, it was considered inadvisable to remove the supporting timbers and forms. These will be allowed to remain in position until spring.

Turntable.—A 75 ft. turntable was put in position by the Locomotive & Machine Co., of Montreal. Concrete foundations were built by the Forest

City Paving Co.

Coal Shed and Trestle .- Messrs. Wyse & Middlemist, of Toronto. have completed their contract for coal shed and trestle, with exception of rivetting and painting the galvanized iron roof. This work will be done in seasonable weather. The trestle and chute are at present in service.

Station.—Station has been occupied by Operating Department since

March 21st last.

Tank.—Standard 40,000 gallon tank on pile and concrete foundations was built by our forces.

Library Location MILLS Bookstacks PR 448 P68R58 1994

Call Number

LOCATIONS

Bibliography

1905

No. 48

al rights of certain sites will be trans. santime, in order to the town sites at nto lots and agree. or Temagami, \$11. e general method first two mentioned ed with a building the Chief Engineer es were fixed in a onsidered advisable ist 18th. Since the mner as that of the lvisable to insert a the respective stantendent's office at of hotels, business y promise of pros-

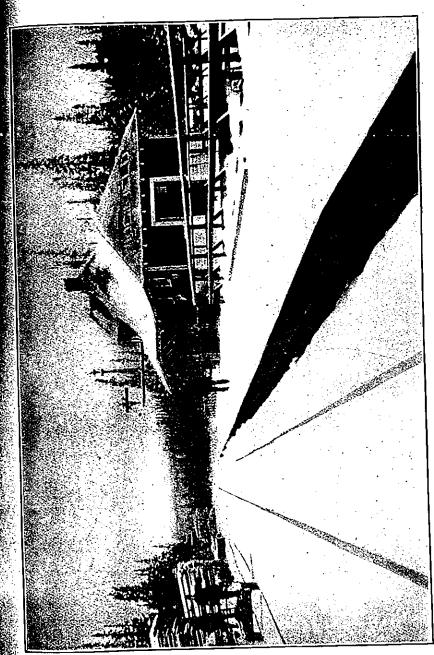
shalf of school and i price, and such proper to assist in

and at Cobalt de to the depot. ; probable mineral ers were employed doing systematic e the Commission ie town site which ations.

and of December. completion of the railway. As this uired expenditure aming and Northlovernor in Counenue Fund of the etion of said railion in the month .,636,164.27 were of the year, said on with renewal

19th, 1904, proof the sum of ission under the anuary.

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Station at Widdifield.

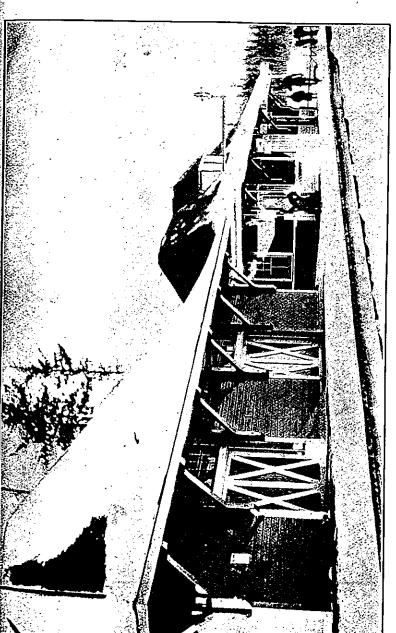


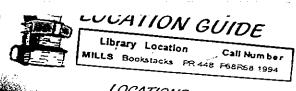
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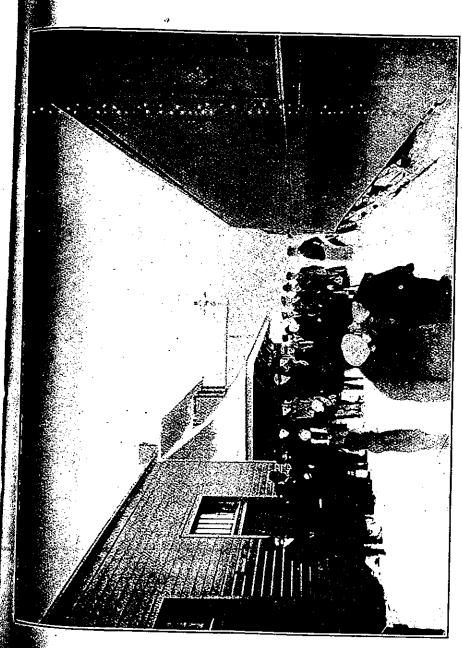
LOCATIONS Bibliography







LOCATIONS Bibliography



Station at Latchford.



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LOCATIONS Bibliography



Station at Cobalt.

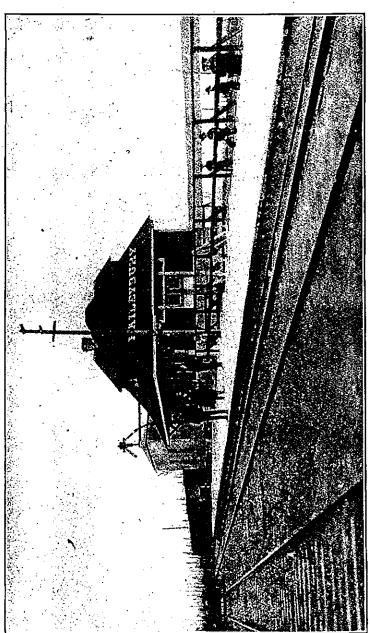


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<u>LOCATIONS</u>

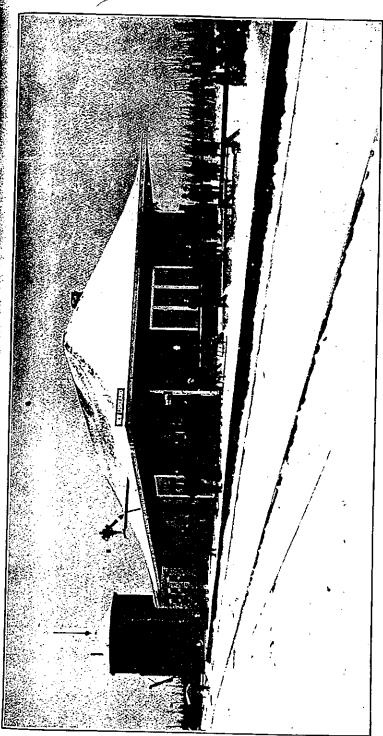
Bibliography



Station at Haileybury.

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Station at New Liskeard

CHIEF ENGINEER'S REPORT.

NORTH BAY, Jan. 24th, 1906.

H. W. Pearson, Esq., Secretary-Treasurer, Toronto.

DEAR SIR,—I beg to present herewith my annual report for the year ending December 31st, 1905.

Division No. 1.

Roadbed Construction.—A. R. Macdonnell, Contractor.

Trestle Filling.—As soon as the frost left the ground the contract: began filling in the temporary trestles of which there were a great number This work has been completed with the exception of the trestle at the 65th mile, which is at present being proceeded with.

A short permanent trestle at mileage 833 will, on account of the pos-

holding bottom, be filled in before the contractors finish their work.

Ballasting.—Ballasting was started about July 1st and completed about the middle of November. This took more material than was anticipated on account of sink holes developing through the muskeg country south of Redwater, and the necessity of widening many narrow banks.

All sink holes were filled without accident and with slight delay

traffic.

This whole division has now received two lifts of ballast and the read

bed is of a solid, durable nature.

A large amount of filling was necessary around the stations at Hailer bury and Cobalt to provide suitable unloading facilities. This was done by the contractors.

Fencing.—Fencing was built from mile 104 to mile 101 through the Cobalt region, and the fencing previously built was put in thorough repair

Building Construction.—O'Boyle Bros., Contractors.

The following stations were completed and opened for traffic during

the season: Haileybury, Cobalt, Latchford, Temagami.

Section houses were built at the following points: Widdifield, Bushneil Mulock, Redwater (2), Moose Lake, Doherty, Riddle, Temagami, Otter, Latel. ford, Cobalt.

Telephone Construction.—Wyse & Middlemist, Contractors.

Under contract with Wyse & Middlemist, of Toronto, to construct a four copper wire telephone line from North Bay to Temagami, and one of two wires from this point to New Liskeard. The line has been built to the our mile from North Bay, and the cross arms have been placed as far as the 47th mile. Telephones have been installed in the stations at North Bay Junction and Widdifield.

Construction by Employees of the Commission.—Buildings and sidings. Haileybury.—At Haileybury a through siding was laid behind the station to give unloading accommodation to the people of that town. This sid-

ing is capable of holding twenty-six (26) cars.

A freight shed 30 ft. x 40 ft. was built, and a station signal put in position.

When the heating system of the station was used early in the season one slight changes were found necessary in order to make it work sadis-

Argentite.—At Argentite, mile 1051, a through siding to hold ten cars was built on the east side of the track to accommodate the mine owners in the Kerr Lake district.

Cobalt.—At Cobalt a freight shed with the necessary platforms was provided, 30 ft. x 60 ft.

A through siding was built behind the station and freight shed to accomdate local traffic. This gives siding room for about eighteen cars (18). phylpuilding of this siding necessitated considerable rock excavation, but he congested state of traffic at this point made this construction absolutely

Some slight alterations in the interior arrangements of the station was nade to provide additional office room.

A furnace room was provided below the floor so as to give more waiting com accommodation.

A station signal was provided and erected.

Gillies.—At Gillies Depot sidings to hold twenty-eight (28) cars have built on the usual siding agreement.

Latchford.—At Latchford a freight shed 30 ft. x 40 ft., with necessary platforms was provided. A coal bin 12 ft. x 24 ft. was built.

A station signal was erected.

The water service was put into operation, the water being pumped from Montreal River about 250 feet distant.

Sidings to the total length of 3,658 feet have been built on the usual ding agreement to accommodate the large saw mill of the Empire Lumber Company.

A siding was also put in just south of the Montreal River crossing for Salmon Brothers saw mill. It is 803 feet long, and was also built under the usual siding agreement.

Johnson.—At Johnson a section house similar to those built by the contractors was provided.

Rib Lake.—At Rib Lake a section house similar to that at Johnson was pút úp.

Smallman. At Smallman, mile 811, a siding to hold six cars was put in to accommodate mine owners in the neighborhood. This was built on the usual siding agreement.

Temagami.—At Temagami the station was extended twenty feet northand to enlarge the restaurant, and the necessary changes made in the hecting apparatus.

A station signal was placed in position. A freight shed 30 ft. x 40 ft. was provided and a coal bin 12 ft. x 24 ft.

The water service was put in working order, pumping from Lake Tema-

A cross over was put in between the through siding and the main line. Redwater.—At Redwater a coal bin 12 ft. x 24 ft. was provided.

Piver.—At Diver, 40th mile, a through siding was built to hold fifty-six At this place, under agreement with the Commission, the Cleve-Sarnia Lumber Co. built about six miles of track into their lumber and at the main line built a "Y" connecting with our through siding. Octo.—At Jocko a freight platform 12 ft. x 40 ft. was provided. teings to hold sixteen (16) cars were built for Mason and Gordon, and

hold thirty (30) cars built for Munro and Coxford.

Mile 28.—At Mile 28 a siding to hold 19 cars was built under the usu. siding agreement for Ferguson and McFadden.

Moose Lake.—At Moose Lake a combined open and closed shelter stating was built and the tank pumping apparatus put in first-class order. A con bin 12 ft. x 24 ft. was provided.

Mile 20 1-2.—At mile 201 a siding to hold twenty-three (23) cars was built under the usual siding agreement for Messrs. Graham and Ferguson

Widdifield .-- At Widdifield some slight alterations were made in ... station and heating apparatus.

A coal bin 12 ft. x 24 ft. was built, and the station signal placed ..

position. Trout Mills.—At Trout Mills a shelter station with platforms was bus-Mile 2 1-2.—At mile 21 a siding to hold eight (8) cars was built under the usual siding agreement to accommodate McLean's saw mill.

North Bay Junction .- At North Bay Junction the following building

operations were completed: Station and store-house, a building 30 ft. x 60 ft. was raised one store to give increased store room and office accommodation; roadmaster's store house, 20 ft. x 40 ft.; coal shed, 20 ft. x 120 ft.; coal bins (under platform 35 ft. x 40 ft.; oil house, 18 ft. x 30 ft.; lime and cement storehouse, 12 ft. x 30 ft.; lumber shed, 20 ft. x 30 ft.; locomotive shop, 52 ft. x 152 ft. boiler house, 15 ft. x 38 ft.; blacksmith shop, 18 ft. x 27 ft.; carpenter sho 60 ft. x 75 ft.; carpenter shop, addition, 16 ft. x ft.

The following are in course of erection: Standard water tank, were

40,000 gals. Tub.; 2 coal docks, each 16 ft. x 112 ft.

The following equipment has been installed in connection with the low motive shop: 60 h.p. boiler, 50 h.p. engine, planer, drill, shaper. 2 lather grind stone, emery wheels, small dynamo for lighting purposes.

Heating coils have been installed in the machine shop end, and

blacksmith's forges in the blacksmith shop.

A foundation has been built for the large wheel lathe recently purchase The following wood working machinery has been installed in the penter shop: Buzz planer, band saw, matcher, boring machine, saw machine 1,287 feet of additional sidings were laid in connection with yard

provements.

To supply water to the tank a 12x12 well has been sunk.

Below will be found a summary of the work done in the shops here connection with general road and equipment.

15 section tool houses, 10 ft. x 14 ft. were built, shipped out in known

down condition and erected on the different sections.

Outhouses to the number of 24 were finished, loaded on cars and place along the line in connection with the different stations and section house

41 yard limit boards were made and placed where required. 215 signals for snow-plows and flangers were also made and distribute. Many articles of station furniture, such as tables, cupboards, etc...

manufactured for the different stations.

Rebuilding Telegraph Line.—The telegraph line was found to be of poor character that it had to be completely rebuilt. New poles were pur where required, and the whole line well braced. In addition to this a supertelegraph wire was strung. It required two gangs the best part of the search to complete the search to search the searc to complete this work. In connection with this much slashing of trees list to fall upon the wives were done. to fall upon the wires was done. Up to the present about 22 miles of slushing has been completed, and the worst trees cut down over the division.

Clearing.—The bush near all stations, section houses, tanks, etc., was out down and the ground well burned to prevent the possibility of forest fires preading and damaging the buildings.

Rock Cuttings.—Considerable work has been done taking down loose nick from rock cuts, and where necessary knocking off small points to give a clearance from the nearest rail of 6 feet. This work has been completed

over 60 miles of the division.

Public Road Crossings.—21 public road crossings at rail level were properly guarded and the necessary cattle guards, signs, fences and drains provided. The following is a list of the mileages:

At North Bay Jet. Through the Yard. 183 mile . $103\frac{1}{2}$ 1st $2\frac{1}{2}$ $106\frac{1}{4}$ $3\frac{1}{2}$ $107\frac{1}{3}$ $4\frac{1}{2}$ 1104 $6\frac{1}{8}$ 111 81 $111\frac{1}{2}$ $112\frac{1}{2}$ $112\frac{3}{4}$

Private Road Crossings.—31 private crossings were properly guarded, being placed and the necessary drainage provided along the railway itches.

The work of properly grading and draining these road crossings has been in many cases very heavy. Few were properly formed at the time of construction. Through the clay country south of New Liskeard long approaches were in some cases needed, and proper fences had to be erected on each side of these approaches.

Bridges.—On account of the pile driving done on this division being of a very inferior character a large bridge gang was constantly employed this summer shimming up and making repairs, which should have been unneces-

sary so soon after construction.

At mile 45½ the long low pile trestle was cut down, and the bank is now

carried by a light gravel bank on heavy cross laying.

At mile 35½ an additional 8 feet opening was provided, and a top of white pine put on the whole structure.

At mile 30½ where at the time of construction a solid bank was built wross a small creek, an opening is now being made to permit the floating of

logs from Moose Lake into Jocko Lake.

Culverts.—Solid concrete steel tops were put on four of the small open culverts in the track; the steel for the balance is on hand and the tops will be put on next season. Those completed are at mileages 41. 44, 46‡ and 47.

On account of the bank sliding at Dickson's Creek the large culvert had to be extended in both directions in wood. To the east 84 feet and to the rest 53 feet

The following openings were provided under the track at the points named: Mile ½, 10 inch vitrified pipe; mile ¾, 12 inch vitrified pipe; mile 39½, 3x4 cedar culvert: mile 111¾, 3x3 cedar culvert.

At mile 110½ a culvert 3 ft. x 4 ft. x 200 ft. long was built along the rest side of track to prevent ditch becoming closed by sliding banks.

Track.—The following work has been done in addition to the general k maintenance, ditching, etc.

All switch stands, targets and connecting rods have been straightened and painted.

All main line switches have been supplied with lamps.

When the track was laid the guard rails were merely spiked. The have been strengthened by the insertion of three cast iron blocks and the whole securely bolted.

All curves over 4 degrees have been strengthened by the use of presse:

steel rail braces.

Surveys, etc .- At New Liskeard two lines were located to the water front in the town, one started just north of the station and curved to the right, following the valley of the Wabis River to the docks on the south shere below the bridge. The other started south of the station and ran dow: through the south part of the town coming to the river side near its mouth

Mile Post 109 .- A line was located from this point to the shore of Lair Temiskaming near the stone wharf. This line gave heavier grades and more

expensive work.

Cobalt.—At Cobalt a branch about three miles long was surveyed in:

the Kerr Lake mining region.

Mile Post 88.—From mile post 88 a line was surveyed to the Fountain Falls on the Montreal River. This was rather an expensive line, about miles long with heavy grades.

Diver .- At Diver some time was spent by a Locating Party getting the best line into the timber limits of the Cleveland and Sarnia Lumber Co. Ti-

total length of this line as built is about 6 miles.

Mile 98.—From mile 98 a complete traverse was made of the Montrea River to a point about three miles below the Fountain Falls. The river was gauged to determine the flow, and the water powers at Hound Chute, Rage-Chute and Fountain Falls carefully investigated.

Townsites .- A party was employed almost constantly during the seaat townsite work, principally at Cobalt. A complete contour survey of : place was first made to enable the town to be laid out in the proper man: so that the streets could be placed to suit the topography. On account the limited space at our disposal this method had later to be abandoned a the streets made parallel and at right angles to the mining location bear daries.

Track Centres, etc .- During the summer months a large engineer: force was employed giving track centres and grades, cross-sectioning. batter pits, etc., etc.

SECOND DIVISION.

Roadbed Construction .- A. R. MacDonnell, Contractor.

The grading is practically completed to the 75th mile from New L. keard, with the exception of the clay cutting known as Swanson's Cut's about the 37th mile, and that cutting about the 17th mile which, during past season, was largely removed by steam shovel. Swanson's Cutting is such a soft nature that it was found advisable to lay the track around it. at the work of removing it by steam shovel will be started at once. A few miles cuts not yet quite completed will be finished before the rails reach the A good many banks that were originally built narrow will require to widened next season.

The last 25 miles on this 100 mile contract is being cleared, some grades that 1 ing started and preparations being made to push it to completion next season

have been straightened

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tractor. h mile from New Lisas Swanson's Cutting nile which, during the wanson's Cutting is of ie track around it. and , at once. A few other the rails reach them. ow will require to be

ag cleared, some gradompletion next season.

Ballast.—A ballast pit purchased by the Commission from J. M. Wallace opened at Earlton and the worst spots in the track between New Lisd and mile 33 were picked up.

The ballasting of the one and one-half mile branch into this pit is comated and all necessary plant in position, so that the ballasting can be conand rapidly pushed to comdefion.

Track Laying.—The rails are laid to Boston Creek about mile 41, and large timber trestle at this point is being built. A forest fire in July conmied the timber that had been gotten out for this structure, so that this esent delay in building the trestle is unavoidable.

Sidings .- Sidings have been put in at the following points: Uno Parks, Thornloe, Earlton, Heaslip, Blanche River, 1st crossing, Charlton, Blanche lever, 2nd crossing.

Fencing.—The right of way has been fenced from New Liskeard to the and mile at the second crossing of the Blanche River.

Blanche River Bridges .- Dominion Bridge Co., Contractors.

The Blanche River bridges, one at the 25th mile and the other at the Brd mile, have been erected and completed, except painting, which was left over until next season.

Building Construction .- O'Boyle Bros, Contractors.

The station at New Liskeard was completed early in the season and arned over to the Traffic Department on the first division.

Construction Work by Employees of the Commission:

New Liskeard.—At New Liskeard the station was sheeted over the plaster ath hard pine and the heating apparatus put into working order.

A freight shed 30 ft. x 60 ft. was built. A siding to hold nineteen (19) cars was built behind the station to accommodate local traffic.

A well 12 ft. x 15 ft. was sunk near the tank, and the tank put in proper working order.

A temporary engine shelter 32 ft. x 150 ft. was built to afford protection engines in bad weather, and 1,371 feet of sidings laid in connection there-

Uno Park.—At Uno Park a foundation has been built for the station.

Earlton.—At Earlton a station foundation has been built similar to that Uno Park.

Telegraph Line.—Some repairs were made on the telegraph line and a econd wire strung, so that we now have direct connection from North Bay White River.

Tie Inspection.--A complete re-inspection was made of all the ties supplied by T. Wallace & Son, on their last contract. The result showed that many ties were originally taken that did not conform to the specification. the contractors were paid on the basis of the second inspection. grought action in the courts, but were non-suited at North Bay on Novem-Er, 21st.

Location.—The line is located to a point on the Black River, about 105 tes from New Liskeard. The maximum grade is .4 rising coming south, d .5 rising going north. The maximum curve is 4 degrees.

A trial line following the general course of the Abitibi River has been 35 miles farther. One party is now locating from the south end of this e, and a second party has gone to the region where the Trans-continental ation crosses the country between the Frederick House and Abitibi Rivers.

Exploration to James Bay.—Starting about July 1st an exploration party in charge of Mr. E. A. E. Sullivan, of Ottawa, as engineer, and accompanied by a geologist and timberman, went to James Bay by the Abitibi River, and made an exploration to get a general idea of the country, as well as to ascer. tain the probable facility with which a railway could be built.

I enclose herewith reports from the engineer and geologist.

The plans that were made of the estuaries of the Moose and Albany Rivers show water varying in depth from 5 to 20 feet, but the depths are so irregular that a very large amount of dredging would be required to make a satisfactory channel for vessels.

The timber through the country traversed by the party was as a rule From the junction of the Black and Abitibi Rivers to within onehalf mile of Iroquois Falls it consisted chiefly of spruce and balsam, averaging 7 inches in diameter and giving about 9 cords of pulpwood per acre-This runs from the river only about 300 feet. It then becomes smaller and

would only average about 50 per cent. of that next the river.

From Iroquois Falls 4 miles north the timber is larger with more pop-This would average 13 inches diameter, giving 16 cords pulpwood per This continues about three-quarter mile wide. It is small and scrubby farther inland. From this point to the foot of Limestone Falls the timber is practically all spruce and poplar mixed with small balsam. It would average about 9 cords of pulpwood per acre. This is from 300 to 100 feet wide along the river bank.

From Limestone Falls to the coast the timber becomes smaller, with some poplar, and averages about 5 cords of pulpwood per acre, and extend-

only from the river inland from 200 to 500 feet.

Some small white birch was seen along the route, but no other hard wood.

Any tamarac in the country is worm killed. The party returned by way of Missanabie on the 19th of October. Com-

ing across the height of land there was a snow fall of 5 inches.

Yours truly.

G. A. McCarthy, Chief Engineer.

ENGINEER'S REPORT OF EXPLORATION SURVEY TO JAMES BAY

Sir,-I have the honour to submit the following report on the exploration for a line of railway in the vicinity of the Abitibi River, from its junction with the Black River down to the Moose River, and thence to James Bay, and also the Harbour facilities to be had at the Moose and Albany Rivers. From instructions received by wire from the Commission in Toronto, I reported to you at North Bay on July 3rd, and after being delayed there for a week in order to procure men I went by way of New Liskeard to North Temiskaming and then across the long portage known as the Quinze to Klocks Depot, where I found my supplies and outfit awaiting me, having previously sent them under the charge of Mr. Wilson, the Geologist of the

REPORT OF ARTHUR A. ALLAN, MASTER MECHANIC OF TEMIS. KAMING AND NORTHERN ONTARIO RAILWAY.

MOTIVE POWER AND CAR DEPARTMENT, ANNUAL REPORT 1906.

New Locomotives. During the year 1906 the following new locomotives

have been added to the motive power equipment of this road:

Four locomotives, Numbers 105, 106, 107 and 108, built by Canadian Locomotive Works, Kingston, Ont. Were received in March and are of the ten-wheeled type cylinders 19 inches in diameter, 24-inch stroke. eters of drivers of first two engines 56 inches, and second two 62 inches, total weight of engine and tender in working order, 229,000 lbs. have been used mostly in freight trains.

Four locomotives, numbers 111, 112, 113 and 114, were built by The Locomotive and Machine Company of Montreal. These engines are also of fen-wheeled class with cylinders 19 in. x 24 in.; diameter of drivers, 62 Total weight of engine and tender in working order, 262,570 lbs. They were received in June and have been used mostly in passenger service.

Two six-wheeled switching engines were received from the Canadian Locomotive Works, Kingston, Ont., in November. These have cylinders 19 in. x 26 in., and drivers 50 inches in diameter. Total weight of engine and tender in working order, 213,000 lbs. These engines are Numbers 150 and 151:

Locomotive Mileage. During the year 1906 the following engines belonging to this railroad have run the mileages as shewn below:

Engine No.	Miles, 1906.	Total Mileage of Engines
101 102 103 104 105 106 107 108 109 110 111 112 113	34,807 21,868 21,003 36,452 19,966 20,095 19,564 26,416 31,089 25,356 16,948 22,098 14,606 15,193	83,529 69,933 70,888 85,914 19,966 20,095 19,564 26,416 40,875 35,521 16,948 22,098 14,606 15,193

Engine Despatch. The following is a statement shewing the number of engines despatched from the different terminal points during the year:

Terminal Station	${f Number\ of}$
	engines despatched.
North Bay	1,037
New Liskeard	1 414
Englehart	92

Repairs and Renewals to Locomotives. During the year the locomotive equipment has been maintained in a proper manner. The repairs and renewals necessary from time to time have been executed thereon.

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Four s Company,

Three 10, 12 and ·Five w Company,

Engine 101 has received a general repair, driving tires have been

turned, engine equipped with steam and repainted. Engine 102 has been given general repair, has had driving tires turned, 63 tubes renewed in boiler, air signal and steam heat applied, and engine and tender repainted.

Engine 103 has had general repair, driving tires have been turned, air ignal equipment and steam heat applied, new cab, and engine and tender

repainted.

Engine 104 has been given light repair.

Engine 105 has received heavy repair, driving tires turned, engine and tender painted.

Engine 106 has undergone heavy repairs, driving tires turned and en-

gine and tender painted. Engine 107 has been given heavy repair, driving tires turned, and

engine and tender repainted. Engine 108 has received heavy repair, driving tires turned, engine and

tender painted.

Engine 109 had necessary running repairs and maintained in efficient

condition.

Engine 110; has not been necessary to have this engine in the shop for general overhauling during the year, but necessary running repairs have This engine has been been sufficient for proper maintenance in service. equipped with pilot and head lamp on rear of tender, being engaged in passenger service on the run between Latchford and New Liskeard. This engine has also been equipped with four pairs of new tender wheels and axles.

Engines 101 and 104 have been equipped with rapid unloader apparatus

for ballast train service.

The following material has been manufactured for repairs and renewals

of locomotives:

Two new engine cabs, one applied to engine 103, which was damaged by fire, the other kept for spare. Five new engine pilots completed, also twelve new tool boxes, for use on engines.

Each engine has had boiler washed out once every two weeks when in regular service. Stay bolts in fire boxes have been regularly tested every

three months, and renewals have been made where necessary.

Nettings, ash pans and dampers have been regularly examined at end of each trip during the summer season as a precaution against fire. During the damp weather and at such times as the danger from this source would be reduced to a minimum, nettings, ash pans and dampers have been examined twice a week.

During the year 112 couplers have been received and applied to engines and cars. Twelve pairs of cast iron truck wheels and four pairs steel-tired

wheels have been received for this service.

New Coaches. Seven new first-class coaches, Nos. 103, 104, 105, 106. 107, 108, and 109, have been received and put into service. There are at present four more coaches of this class under construction by Crossen Car Company of Cobourg, Ont. Will be numbered 110, 111, 112 and 113.

Four second-class cars have been purchased (second hand) from Hicks Company, Chicago, III., Nos. 16, 18, 20 and 22.

Three new workmen's cars have been received and put into service, Nos.

906

Repairs to Coaches. Repaired seven passenger coaches, 100, 101, 102 12, 4, 6 and 8, having painted same and turned coach tires.

Have built three sets of steps and six step-ladders for coaches.

Have given heavy repairs to three baggage cars, Nos. 1, 3 and 5. Car

has had four pairs of tires turned, and car 5 has three pairs.

New Baggage Cars. Five new baggage cars have been received from e Crossen Car Company of Cobourg, Ont., and placed in service. Numbers 9, 11, 13 and 15. One second-hand baggage car, No. 17, has been purcased from Hicks Company of Chicago.

Twenty-five new flat have been received from Rhodes, New Cars.

17ry & Co., Amherst, Nova Scotia, August, 1906.

Have seventy-five new flat cars now under construction by Rathbun mpany of Deseronto, Ont.

New Conductors' Vans. Have received and put into service seven new

nductors' vans, Nos. 52, 53, 54, 55, 56, 57 and 58.

Repairs to Vans. Have repaired and repainted vans 50 and 51.

Freight Cars. Have rebuilt T. & N. O. flat car 60,051, new sills, etc. ave converted 25 box cars into boarding cars for Construction Department.

Eight pairs of hose bag racks for baggage cars and vans for carrying are air brake and steam heater hose, and six fusee racks for vans have been

*Steam Shovel. Have received one new "Victor" steam shovel manustured by Toledo Foundry and Machine Company, Toledo, Ohio, April,

Rapid Unloader. During April, 1906, received one second-hand rapid loader from F. H. Hopkins Company, Montreal, Que.

Steam Wrecking Crane. Have received from Industrial Works of Bay ty, Michigan, one new steam wrecking crane for heavy lifting, clearing ecks, etc.

Auxiliary Equipment. In addition to steam wrecking crane an xiliary equipment has been fitted up and is maintained ready for ser-

Repairs to Flangers and Snow Plows. Have repaired snow plows No. and 2, equipped them for winter service. Flangers No. 1 and 2 have o been repaired. Charges for repairs to snow plow No. 2 have been made inst Contractor Mr. A. R. MacDonnell, New Liskeard, Ontario, as damoccurred to plow while in service in construction of the line.

Car "Temagami." One map rack supplied for Official Car "Temami." Also new cabinet in kitchen. Car repaired, cleaned and revar-

hed.

Car "Abitibi." New draft timbers, sills and steps. Car repainted and arnished, inside pipes gilded.

New Machinery. The following new machinery has been received and

talled during the year:

One 36 in. lathe from McGregor, Gourlay Co., Galt.

One driving wheel lathe from John Bertram and Sons Co., Dundas.

One sand drier complete.

One single head bolt cutter from John Bertram and Sons Co., Dundas,

Shop Equipment, Repairs and Renewals. Have made repairs to six sel barrows. Machine shop and carpenter shop have equipped with

prings. New mrary coal doc rew coal chute minted one tin

Pattern Me eën made fror comotives, ca Thomas, Ontar: intario. Patte Bay Junction emiskaming a he location of

Proper sy: adopted.

Stores Dep and one ladder Have fitter ar in deliveri

 $\begin{center} Enridge & an \end{center}$ Have rebuilt t flied forty nev ion. Fifteen

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Road Dep tion men in R use of road con train service, unloader, and time on grave poards.

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springs. New water tank constructed at North Bay Junction shops. Te norary coal dock also been placed at the shop for coaling locomotives. (new coal chute in course of construction at North Bay shop. nainted one time check board for use Locomotive Foreman's office.

Pattern Making and System of Numbering. Necessary patterns h: heen made from time to time for repairs and renewals of different parts locomotives, cars, and other equipment, by the St. Thomas Brass Co., Thomas, Ontario, and the Nipissing Foundry and Machine Co., North B. Ontario. Patterns are now being made at shops of this Company at No. Bay Junction at reduced expense. All patterns are the property of Temiskaming and Northern Ontario Railway, and proper record is kept the location of same.

Proper system of numbering all patterns and classifying has be adopted.

Stores Department. Have supplied six fire pails, four water barre and one ladder, and painted same for use of Stores Department.

Have fitted up car 60,180 with shelving, bins, etc., to be used as ste car in delivering material to various stations.

Bridge and Building Department and Transportation Department Have rebuilt two baggage trucks for Latchford and Cobalt stations. plied forty new ladders for use of stations and seven train boards of she iron. Fifteen sets of crossing signs, and 150 mileage boards.

General Offices. Windows frosted and painted in General Offices, Fe guson Block, North Bay, doors, etc., lettered. Six new desks, one bl print cabinet for offices at North Bay Shop. Two desks repaired, one ne counter.

Road Department. Have built fourteen hand push cars for use of se tion men in Road Department work. Have built eight new hand cars fuse of road construction departments. Fitted up forty flat cars for balla train service, equipping same with aprons, hinges, etc., for use with rap unloader, and gravel plows. Have made necessary repairs from time time on gravel plows, rapid unloader, etc. Have completed 150 snow plo

Work Done and Repairs made for Outside Companies and Firm Have made repairs to one locomotive belonging to Cleveland-Sarnia Sa Mill Company of Sarnia, Ontario. Putting new false bridge in cylinde: Have turned two sets of driving wheels, and six pairs of coach wheels fo A. R. MacDonnell, Contractor. Have made necessary repairs to one cor crete mixer for Forest City Paving Co., who have contract for new roun house, &c., at North Bay. Accounts have been rendered to cover.

Have loaned steam wrecking crane, and engineer in charge on neces sary occasions to A. R. MacDonnell, Contractor, New Liskeard, for use of construction work, for which charges have been made and accounts ren

Have put in one pair of cast iron truck wheels for locomotive No. ! belonging to Canada Construction Company. Account rendered.

Repairs to Foreign Cars. Have rendered proper bills against foreign roads for repairs made to cars by this railway in accordance with Master Car Builders' Association Standard Code of Rules, governing condition of and repairs to freight cars for interchange of traffic.

New Liskeard Engine Shed. Water service has been installed at New Liskeard from water tank to station building

stem was provided to take ouble strength vitrified 8, vard.

with the O'Boyle Bross (... containing two store ong our line between North el work prevented this but Vill be completed next sea placed in new freight she

omotive & Machine Co. an across this creek. This

ad between townships of rminal yards. sed by permission of the correction. The first, which serve points, now crosses main ain come near the track. trand Trunk Railway Compa. Canadian Pacific Railway ifield and Ferris, to granta. was graded, bridge was built t 914, facing Monck St. ole living along the lake gh. If St., as formerly, and from and bridge provided by at

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on pile and concrete

Englehart. 190

Water Supply.—To obtain a quick, never failing supply of water, suitfor locomotive purposes, it was necessary to lay a four-inch pipe from Blanch River to tank, a distance of about one mile. The lift from river of tank is about 95 ft. Pump and coal houses were built at the river below bridge, and necessary pump and boiler installed. This service is

in operation. To secure a supply of pure water for train and station service it was to drive one deep well. After careful examination of neighborhood, Wright Bros., of Petrolia, undertook the work. Site selected was south of station and west of track. First rock was encountered at depth of ft., water was struck in limestone, and quartz at depth of 355 ft.

An analysis of the water from this well shows it to be pure and of good putity for domestic use; but slightly harder than can be profitably used for purposes. The addition of a small quantity of soda ash will render water suitable for any purpose. This well furnishes about 600 imperial plans per hour.

The results from well No. 1 were so satisfactory, it was decided to drive second, farther north. Location made just opposite new engine house and Rock was found at depth of 172 ft., and water in lime-

Acc. and quartz at 305 ft. An analysis of water from this well shows it to be slightly superior to trom well No. 1. It is not as hard, and will require less soda ash per gallons to make suitable for boilers. The yield from this well is 600 imperial gallons per hour.

At both these wells the strata above the rock consists of clay, sand and The casing varies from ten inches in diameter at top to 45 inches a bottom of well.

It is intended to put down a third well next season. We will then have the three sufficient water for all train and engine purposes. The apense of obtaining water from the wells will be much less than cost of samping from river, and plant at present in use at latter point may be taken

Grading.—All grading, ballasting, tracklaying, etc., required in this and was done by A. R. Macdonell under his contract at his schedule prices. Cattle Pen. -A cattle pen 30 ft. x 40 ft. was built with necessary chutes, etc.

BRIDGES.

Our regular bridge gang was employed during the season making *pairs and keeping the numerous trestle bridges in proper line and surface. At the following points permanent concrete tops were put on open culand the track ballasted over them:

Mile.	Clear Span.
523	13 ft. 0 in.
881	15 ft. U in.
104	
$137\frac{1}{2}$	14 ft. 0 in.

On all open culverts between North Bay Jct., and Englehart, there are rermanent ballasted decks.

THE TEMISKAMING AND

ranch of Wabis River, mile IIIs ranch of the for traffic. It was decided an concrete pedestals supported Campbell of Englehart, for all tions, driving piles, and buildings work was completed in Augusta

nto, have contract for steel place complete on August 30t

r, mile 146, the weight of tent to move bodily forward the wing walls were crack coming in contact with as decided to unload abutma.

Trestle that was in the contact with the c

crestle. Trestle that was in place gravel filling, was found in good conditions

ment was unloaded no sign of movement has been obtained. Wild Goose, permanent trestle, mile 197, an 84 ft. How takes place of temporary trestle built across stream during construction.

STATIONS AND STATION GROUNDS.

North Bay Jct.—An extension 12 x18 was made to present at a dation to Station Agent.

Diver.—Under contract the O'Boyle Bros., Construction a station 20 ft. x 60 ft. with platform 12 ft. x 160 ft.

Redwater.—A similar station and platform was built here.

O'Boyle Bros., Construction Co.

Temagami.—The new station was completed early in the vestation was remodelled and is now entirely used as restaurant.

Concrete station platform of 9,500 sq. ft. area was provided Grey.—One section Freight Shed 20 ft. x 30 ft. to be justile station, with platform 12 ft. x 200 ft., is being by contract for mission by the Temagami Mining and Milling Co.

Latchford.—An extension 20 ft. x 30 ft. was made to Free Station platform was extended northerly to tank, a distance Concrete floor was placed in Station Agent's residence Standard 100 ton railway track scale was placed on siding easiline and north of station. Concrete foundations were built by forces, and scales installed under supervision of Burrow, Steward of Hamilton, Ont.

Gillies.—By contract the O'Boyle Bros., Construction Costation 30 ft. x 60 ft. with necessary platform.

Cobalt.—By agreement McQuigge & Hunt excavated three knot containing 9,009 cu. yds., lying between main line and Cobalt Takes

General repairs were made to the station and rear portion of Camp Association Building was fitted up as telegraph and telephone

1907

NORTHERN ONTARIO RAILWAY COMMISSION.

North Cobalt.—An agreement was entered into with the North Cobalt Corporation of Toronto under which station and platform, similar to at Uno Park and Earlton, was built. This has been in use about six though contract is not yet quite completed.

Haileybury.—An extension 10 ft. x 20 ft. was made to rear of station, ire increased office accommodation.

Natheson.—Temporary station 25 ft. x 70 ft. with platform has been

Temporary engine shed to accomodate two engines and coal dock to a reserve supply of coal are now under construction.

Grading and tracklaying in this yard is being done by A. R. Macdonell, ractor.

TANKS.

With our own forces tanks were completed at mile 122 and at Engleand coal houses provided at these points. Foundations are of concrete ming upon piles.

The O'Boyle Bros., Construction Co., tendered upon and received confor all other tanks required to be built during the season. They are the following points: - North Bay Jct.; Swastika, mile 1643; Bourke's. 1831; Matheson, north of station, mile 206.

These tanks have been completed and the intake pipes and pumping

schinery is now being installed by our Mechanical Department.

Along upper end of the line all streams from which water can be Mained are much below grade. Pump and coal houses require to be built a stream level.

TENEMENT, SECTION AND TOOL HOUSE.

Our Bridge and Building Department improved section houses on the M Division that had not already received attention. Verandahs and litchens, 6 ft. x 29 ft. and 12 ft. x 14 ft. respectively were provided at, Mose Lake, Riddle, Otter, Bush-M., Redwater (2), Doherty, Temagami, Rib Lake, Johnson.

The section house at Thornloe is completed.

The O'Boyle Bros., Construction Co., secured contract to built a three becment dwelling house at Englehart and all section houses required duris the year. These buildings are located as follows:---Hailebury, section house frame, erected and boarded in.

Englehart, three tenement dwelling house and section house completed. Krugerdorf mile 146 section house completed.

	•••	1914		**		2.5
Dane	**	160		"	•	"
Kenogami	"	168		"		"
Sesikinika		176		66		66
Dourke's	"	183	•	"		"
Scotty's	, "	$188\frac{1}{4}$		**		"
Ramore		195		"	•	"
Matheson		205*		**		66

except interior painting. Tool houses 14 ft. x 16 ft. for use of section gangs were built at the kllowing points:—Hailebury, Uno Park, Thornloe, Heaslip (2), Englehart (2), Matheson.

condition. When the Black River opened up steamboats and barges we used to take supplies from Macdonell's Chute to the Driftwood River, in which point they were taken overland to the headquarters camp.

The backward season caused the snow to remain on the ground lat than usual. This was a disadvantage to contractors in their clearing a grading operations. The "rainy season" starting about the end of Ju made it almost impossible to conduct operations in the clay section. The was, therefore, temporarily abandoned and all forces sent to the Nell-Lake region where formation is sand. Since October 15th good progre has been made, an average force of probably 600 workmen being employed.

In connection with this contract it was intended to use steam shows to take out heavy cuttings around the Driftwood River. It will be necessare to take these showels across the Watabeag bridge. If Canada Foundry Chad let us across the bridge when they agreed to, serious delay would have

About eight miles of grading has been completed.

BRANCHES.

Kerr Lake.—This is Branch line built to accommodate the mines of the Cobalt Camp. Trouble experienced in obtaining right of way prevented work being let until February, when contract was entered into with Messra McQuigge & Hunt of Arnprior for the construction of Branch leaving the main line near south end of Cobalt Lake and running southerly and easterly to boundary of the Drummond Mining Co., near shore of Kerr Lake, distance of about four miles. This line runs through one corner of "Gillied Limit," which is known to be rich in silver. After line was located and work was started it was necessary to make some slight changes in location to avoid covering by embankments some of the silver veins on the Lawsen property.

Work has gone forward steadily since contract was entered into. The extremely wet season, and labor troubles among the miners of Cobalt Camp combined, caused contractors no end of trouble and delay. Men were openly hired off railway work to go to the mines. The management of all the mining properties paid more for ordinary labor than any railway contractor could afford. They thus got pick of all the men brought upon railway work. I have elsewhere in this report given an example of the movement of men on this Branch during the summer months.

The grading will be completed as far as the bay of Giroux Lake next month. The track can then be laid this far and some of the larger shipping mines accommodated. Grading will be completed to the end of the line in February next.

It is expected that a great deal of traffic in low grade ore will be secured by the building of this Branch. Our Engineer has located sidings of "Branch" on following properties:—McKinley-Darragh, Nipissing. Cobalt Contractors, Limited, Provincial Mine, Foster, Kerr Lake, Drummond. More will no doubt follow.

Charlton Branch.—This branch runs from Englehart in southwesterly direction to Charlton, at foot of Long Lake in Township of Dack. It was located in summer of 1906, and tenders invited in autumn of that year; but trouble in adjusting right of way matters made it impossible to let contract until well on in winter following. Tender of the Canadian Construction Co. was accepted and contract entered into.

STATEMENT OF ACCIDENTS AND PERSONAL INJURIES DURING 1907.

March 30th, Ronald McDonald struck by train No. 11, mileage 100 cutting one leg off and breaking the other in several places. Man died April 1st.

April 25th, F. J. Neff, while attempting to board down freight extra 102 at Cobalt, missed footing, fell between cars and was killed instantly.

May 27th, Patric Lecleir, killed at Cobalt by Temiscaming coal doct falling on him, while train No. 11 was switching in yard. Cause supposed to have been by vibration of engine.

May 31st, six cars on train No. 12 were derailed, mileage 43, doing

considerable damage to track and cars.

June 28th, Chas. Barrager of Tweed, Ont., passenger on passenger extra 114, south, had finger caught between vestibule of two coaches, crusting same.

July 9th, extra 106 derailed, mileage 1342, causing death of engineer

Thos. Gold, and doing considerable damage to engine.

July 11th, ballast extra 101 pitched into freight extra 103 at miles. 5½, causing \$2,444 damage to rolling stock and track.

August 7th, train No. 4, engine 105, derailed M.P. 98, causing slight

damage to engine and \$222 damage to track.

Nov. 13th, engine 114 left train mileage 51½ to go to Redwater for water, and on return ran into train damaging one of our steel flat cars and tender of engine.

Nov. 21st, brakeman T. D. Charlebois, while jumping off light engine 102 at Moose Lake 1.55 a.m., missed his footing and had leg jammed between platform and step of engine, breaking leg in two places, necessitating amputation above the knee.

Nov. 29th, Paul Degan, while attempting to board train No. 1 at Cobalt. after train had started, fell under wheels, cutting off both legs and bad!

smashing right arm above the elbow. Man died the same day.

December 9th, train No. 46 ran into A. R. Macdonell's engine which was standing foul without protection at south leg of the Wye, New Liskeaud damaging contractor's engine considerably, also damaging our engine 111 and track to some extent.

REPORT OF WILLIAM YOUNG, GENERAL ROADMASTER.

Commencing January 1st, 1907, the road or maintenance of way department was transferred from construction to transportation or operation, thereby placing under my supervision the general roadmaster, William Yours Report of work is as follows:

MAINTENANCE OF TRACK, 1ST DIVISION.

The track has been maintained in better surface and line during present year than in 1906, largely on account of the new roadbed gradually become more consolidated. In order to maintain better gauge on current track, it was found necessary to increase the number of tie plates, also to slightly increase the elevation of the outer rail to meet the required specific forms. A number of curves remain to be treated in like manner.

	Location.		
1	LOCATION.	Description.	Remarks.
4. P.	Station.		
0	North Bay Junction	Freight house spur	T. & N. O. Ry.
	"	Cole's spur	Private. T. & N. O. Ry.
	"	Ashpit spur	1. & R. O. Ry.
	"	Roundhouse	"
	46	Machine shop	"
- 1	44	Snow plow spur	
	4.6	Coal dump spur	4.6
	ii,	Coal loading spur	**
	t t	No. 1 through	44
-	"	" 2 coal chute spur	16
ļ	**	" 3 through siding	66
- 1		"4. "	"
		" 6 "	
		<i>47 4</i>	· ·
	· u	" 8 "	, st
	" .	" g "	"
ļ	tt .	"10 old shop spur	
1	<i>u</i>	"11 " "	
	"	14	4.
	"	Short transfer through	44
		New siding	i t
	"	Long transfer through	"
21/2	Trout Mills	North Bay Lumber Co.'s spur	Private.
-2		Milne & Son main spur	"
	"	To pumping plant	
1	"	Short lumber spur	11
	"	No. 2 short spur to saw mill	
	"	<u> </u>	11
	, "	" 2 " "	
31	Trout Lake	Montreal Reduction & Smelting Co.'s siding	- 4 37 O Du
8	Ballast Pit	No. 1 ballast spur	T. & N. O. Ry.
	"	" 2 "	14
		" 3 "	14
83	Woodland	Through siding	Private.
101		St. Catharines Wood & Pulp Co Long Lake Lumber Co.'s siding	14
$\frac{11\frac{1}{2}}{13\frac{1}{2}}$	Widdifield	Through siding	T. & N. O. Ry.
153	North River	Through siding St. Catharines Wood & Pulp Co.'s spur	Private.
18	Mulock	Through siding	T. & N. O. Ry. Private.
19‡		DeLaplante Lumber Co.'s spur	Private.
201			
23 ½	•••••	No. 1 Temagami Lumber Co.'s spur	
26		Ferguson & McFadden and Milne & Son joint spu	T. & N. O. Ry.
274	Moose Lake	Through siding	. T. & N. O. M.
-	"	Spur	• "
273		Ballast pit, No. 1 pit spur	. "
90	•	l	
28 30}	*******************	Ferguson & McFadden log spur	
321	Jocko	No. 1 log spur	Private.
321	44	# 2 #	Rv.
34-	Riddle	Through siding	T. & N. O. Ry.
	A .	**************************************	
371	Osbourne		Private.

Showing Sidings M. P.

**		
ocation.		
一)		
Station.		
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	Wy	7e 2
tter jshnell edwater	111	,,,,
	W:	ye.
aliast Pit	Th Sp	roı ur.
Ocherty Smagami Trey	Th	roı
emagami	Sp	ur.
arey	No	me ortl
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Rib Lake	B	alla hro
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	. M	alm Vye
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	}	
Latchford		hr
" Gillies Depot		Gil:
Gillies Depot Cassidy Ballast Pit		Lþi
" Ballast Pit	.	Pit En
Kerr Lake Junct		Dy. Th
Kerr Lake Juncti	on	Ke Sil
Kerr Lake Juncu		Mτ
Cobalt		Cle Ca
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		Ťi Ti
Argentite North Cobalt		To
Haileybury		Tì
	• • • •	
		M
ew Liskeard		N
	• • • •	ì

6 a T.R.

62

T. Showing Sidings on T. & N. O. Railway, 1st District, from M. P. 0 to 138.—Continued.

Location.	Description.	Remarks.
ritoria.	Description.	memaiko.
Ma Ghadian	•	
Station.		
1		
nyer	Through siding	T. & N. O. Ry.
C Company	Cleveland Sarnia Saw Mill Co	Private.
	Wye and main line	44
64°°'	Through siding	T. & N. O. Ry.
tter	tinough stung	1, 00 11, 01 20, 1
nshnell	68	66
edwater	Wye	66
7.	Through siding	46
allast Pit	Through siding	4.6
eric 1.	Spur	4.
in the state of th	Through siding	46
emagami		66
	Spur.	
rey	Temagami Mining and Milling Co	Private.
	Northland Mining Co. spur	"
	" short spur	"
Lake	Through siding	"
	Ballast pit spur	"
öhnson	Through siding	
e (iii	Gillies Bros. Camp spur	
2	Booth & Sons Dock spur	66
	Empire Lumber Co.'s log spur	66
1 400	Salmon & Son saw mill spur	1
	Wye	T. & N. O. Ry.
§:	Empire Lumber Co.'s log spur	Private.
*	No. 1 tumber spur	"
		"
		"
	latin spur	
	" " No. 1 dry kiln	
intoles a	, 2	
Eatchford	Through siding	T. & N. O. Ry.
	town Burng	16
*	n cigh dead blumg	Private.
dillies Depot	Gillies Bros. depot spur	
assidy	Through siding	T. & N. O. Ry.
" Ballast Pit	Pit spur	Driveto
	Empire Lumber Co.'s log spur	Private.
§ · · · · · · · · · · · · · · · · · · ·	Dynamite delivery siding	T. & N. O. Ry.
Com Tala Y	Through siding	66
Kerr Lake Junction	Kerr Lake main line spur	Private.
	Silver Queen spur	Frivate.
	Muggley Concentrator spur.	16 '
Pohols	Cleveland Cobalt Manufacturing Co. spur	T & N A D
obalt	Car storage spur	T. & N. O. Ry.
Š	Through siding	"
3.00 m	Freight house through siding	
	Town siding spur	Private.
	O'Brien's spur	Ellynce.
organista.	Timmins' spur	T. & N. O. Ry.
rgentite	Through siding	1. & H. O. My.
orth Cobalt	Town siding spur	1 11
Control of the contro	Through siding	(1
laileybury	! Dasbing blumpe	
	I telefit trouse statistic transfer the state of the stat	
4	Marchonsconnik	Private.
	McLellan's spur	rnyace.
April inleased	No. 1 through siding	T. & N. O. Ry.
EW Liskeard	No. 1 through siding	1. 6. 1., 0. 109.

ENT SHOWING SIDINGS ON T. & N. O. RAILWAY, 1ST DISTRICT, FROM HICT, FROM М. Р. 0 то 138.—Continued.

Location.		•				-	
.		Descr	iption	n.		}]	Remarks.
		+}-	•	•			
Station.							
						·	
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hver	Through sic	ling	Mili			17. 6	& N. O. Ry.
* · · · · · · · · · · · · · · · · · · ·	Uleveland S	arnia saw	MIIII	Co		*	Private.
Otter	Through sig	ding				∐ T. a	& N. O. Ry.
Bushnell.	66						**
Redwater	44					.	*1
(6)	Wye		<i>.</i> .			- }	44
Rallast Pit	Through sic	ling	• • • • •	· · · · ·		•	"
	Spur	Kna	• • • • •	• • • • • • •		•	46
otherty	THLORGH BK	ımg	• • • • •			•	64
emagami	Spur						4.6
rey	Temagami .	Mining and	d Mil	ling C	0	.[Private.
<u> </u>	Northland	Mining Co.	. spur	` .	<i></i>		"
		**	shor	tspur	. 	- {	ee '
Rib Lake	L'hrough sie	ding	· · · · ·	• • • • •		•	££
200	Through sid	spur	• • • • •			1	"
oinson	Gilliés Bros	Camp an	111]	ic
	Booth & So	ns Dock s	our			.]	1.64
	Empire Lui	mber Co.'s	1028	pur			44
	Salmon & S	on saw mi	ill spu	ır		٠,	4 7 0 7
	Wye					- T	& N. O. Ry. Private.
	Empire Lu	mper Co.'s	NO 8	pur . Llumb	er spur		Frivate.
	6.6	46	46 6	2]	"
	44	£4	44	3	"		44
	6.6	44	lath	spur.		-	£ £
3	ŧ¢.	"	No.	l dry	kiln	-	"
1.6.	// // // // // // // // // // // // // /		**		*******		& N. O. Ry.
Latchford	inrough si	umg wa sidina	••••	• • • • • •			a It. O. Ity.
S	" w	eigh scale	siding	· · · · · · · · · · · · · · · · · · ·			**
Gillies Depot	Gillies Bro	s. depot sp	ur				Private.
Cassidy	Through si	$\dim g$				T.	& N. O. Ry.
Ballast Pit	Pit sour					· . I	n-i
<u> </u>	Empire Lu	mber Co.'s	i log s	pur		·-	Private.
	Dynamite (ienvery 810 dino	ung .	• • • • • •		'-	& N. O. Ry.
Kerr Lake Junction	Kerr Lake	main line	anur				"
Lake Junemon	Silver Que	en spur					Private.
	l Muggley C	oncentrato	r spu	r			46 "
	Cleveland	Cobalt Mai	nufaci	turing	Co. spur		
Cobalt	Car storage	spur	• • • • •				& N. O. Ry.
46 46 14-1	Enrough 81	uing	h eidi	nor		•	
	Town sidin	o anur.	it Sigi		· • • • • • • • • • • • • • • • • • • •		44
	O'Brien's	pur			· • • • • • • • • • • • • • • • • • • •		Private.
	Timmine's	pur				• •	"
Argentite	Through si	ding				T.	& N. O. Ry.
North Cobalt.	Town sidin	g spur		• • • • • •		••	"
Haileybury	Through si	ang				• •	"
k"	;; p:	eight hous	aggı	no.	· • • • • • • • • • • • • • • • • • • •		**
	" w	arehouse s	iding		· • • • • • • • • • • • • • • • • • • •		4.6
	McLellan's	spur				1	Private.
	New Liske	ard Brick :	and T	ile Co.			" O D
Liskeard	No. 1 thro	ıgh siding	• • • • •				& N. O. Ry.
	" 2	••		• • • • • •	· · · · · · · · · · · · · · · ·		••

Remarks.

k N. O. Ry. Private. k N. O. Ry.

k N. O. Ry.

Private. & N. O. Ry. Private. & N. O. Ry. Private.

k N. O. Ry.

Private.

k N. O. Ry. Private.

STATEMENT SHOWING SIDINGS ON T. & N. O. RAILWAY, 1ST DISTRICT, FR. М. Р. 0 то 138.—Continued.

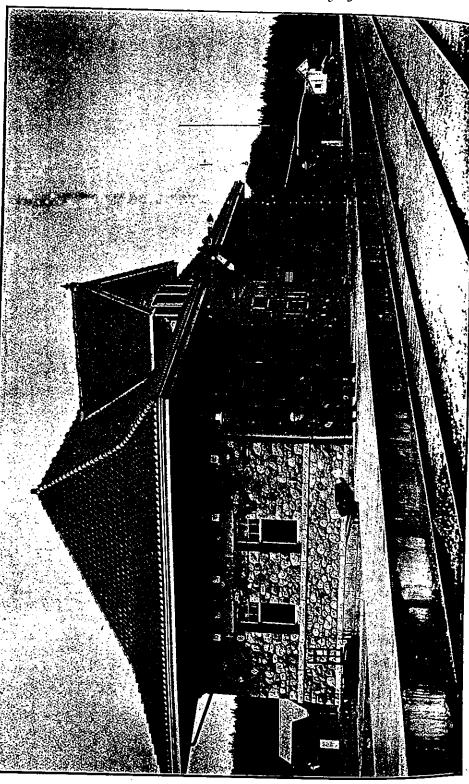
	Location.		
М. Р.	Station.	Description.	Remark.
113	New Liskeard	No. 3 through siding.	
	14	The state of the s	T. & N. O R
	l "	Freight house spur.	
	**	Town siding.	1 "
J	16	No. 1 engine shed spur.	
ĺ	ee .	" 2 " " " " " " " " " " " " " " " " " "	1 "
- 1	**	" 2 " "	••
113}	44	Wye	**
- 1	**	Coal unloading gray	٠٠
		Coal unloading spur. A. R. Macdonell, contractor, 6 temporary spurs,	٠.
		used by him only a constructor, o temporary spurs,	
-		used by him only; constructed by him with T. & N. O. materials.	
[15 <u>3</u>	Land slide	Main line diversion through	••
l 183	Uno Park	Through siding.	••
20		Riordon Pulp Co. loading spur	
22	*****	Drew & Taplin Pulp Co. spur	Private
$23\frac{3}{4}$		Love's Saw Mill appr	"
25	***************************************	Love's Saw Mill spur	7 11
26		Through siding. Proposed siding, Drew & Taplin Pulp Co.'s	T. & N. O. Ry
		loading gour	15.1
271		loading spur. Michigan Sulphite Fibre Co. spur.	Private
283	Earlton	Through siding	
		Ballast nit spur	T. & N. O. R.
ŀ	"	Ballast pit spur. McBurney's Saw Mill spur.	** *
30	*************	Riordon Pula Co 's loading annua	Private
35	Heaslip	Riordon Pulp Co.'s loading spur.	/II () () ()
373		Through siding	T. & N. O. Re.
373		Wye Construction material spur	
-		comes action material spair	••

STATEMENT SHOWING BUILDINGS OWNED BY T. & N. O. RAILWAY.

Building.	Dimension.	Location.
North Bay: Office building (under construction). Freight shed. Frame office. "shed" dwelling" ""(G)" ""(C)" """(C)" """ Rough cast house Frame Shed" "dwelling, (A)" """ and shed (B)" """ "" (E)" """ (F)	30 x 170 ft. St'd No. 1 24½ x 18½ feet 84½ x 18½ " 16½ x 20½ " 25½ x 20 " 45 x 20 " 33 x 16½ " 30 x 30 " 17 x 31 " 30 x 30 " 20 x 15 " 60 x 20 " 60 x 20 "	Cor. Regina and Railway. Railw'y st., back of office bear Railway street, block A William street, lot 4. Cr. William & John sts., lot 318 Cr. R'lway & John sts., lot 318 John street, lot 310. Cr. John & William sts., lot 312. William street, lot 313. "" 314. Lot \$4. Park street, lot 42. Cor. Gore & Park sts., lot 43.

Note:—Letters refer to buildings as indicated on plan 703.

1907



Catherstage former of Whitelest Standage

Buildings Owned by T. & N. O. Railway.—Continued.

	Dimension. Description.
office	30 x 60 feet Two-story, frame. 30 x 106 " concrete. 160 x 20 " Frame. Stondard house
ter's store	12 x 11 Standard notice.
	Une special Frame
	6 x 15 " "
	150 x 53 " ····· "
	79 X 40 ((
	40,000 gallons
	50 x 147 teet Conditions
4-1-1-	15 stalls, 75 foot table "
table	204 x 20 feet Frame.
	.(631 x 20(
	Standard semi-enclosed shelter No. 9.
	20 x 30 " Frame, standard No. 2.
117.	57 x 21½ " " " 5.
	12 x 15 "
	12 x 15 40,000 gallons Standard, enclosed. No. 2.
	30½ x 40½ feet
	11 x 22 " ····· Frame.
	6 x 15 " ·····
	30½ x 14½ " Standard, No. 2. 12 x 11 " Frame.
	Standard, semi-enclosed, shel-
	ter No. 9. Standard, enclosed.
shed	12 x 11 feet No 2
	30½ x 14½ " ·····
	30½ x 14½ " " 2.
	12 x 11 " ······
	20 x 60 " Frame.
	30 $\frac{1}{2}$ x $\frac{14\frac{1}{2}}{11}$ " Standard, No. 2.
	30k x 144 " " 2.
	30½ x 14½
	20 x 60 " Frame. —
	30 x 14½ " Standard, 10. 2.
	12 x 11 " " enclosed
al shed	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	30½ X 14½ , 44
	12 x 11
	65 x 29 " Stone.
***********	std. No. 3., Station (modified)
	Frame, standard, No. 1.
	301 x 141 Standard, No.
*****	40,000 gallons

							- 37	
Building.		Dir	nene	sion.		3	Descript	10
Tool house	12	x	11	feet		Standard	3	
Ice house.	24	x	24	14		**		4
Coal shed	24	x	12	"		"	į	蛐
Lavatory	6	x	15	"		"	- Ĭ	
Grey:							- 9	3
Freight shed (under construction)	20	\mathbf{x}	30	41		**	14	ş,
Rib Lake:	,							
Section house	303		141	"	• • • • •		No. 2,	W.
Tool house	12	X	11	"	• • • • • •	••		
Johnson:	001		141	"		۱ ،،	NT. O	,
Section house	303		141	"	• • • • • •		No. 2.	
Tool house	12	х	11					
Latchford: Station	57	x	21 }	"		66	No. 5.	, [
Freight shed	60		30	"	• • • • • • • • • • • • • • • • • • • •	64	" 2	3
Agent's house	28		26ł	"		Frame, st		
Section house	301		$14\frac{1}{3}$	44		Standard,		
Water tank	40,0	00 s	gallo	ns		"	enclose	
Tool house	12	x.	11			44		1
Coal shed.	22	\mathbf{x}	11	"		Frame.		S.
Lavatories	6	x	15	"		"		А
Ice house	10	\mathbf{x}	15	46		44	Ŷ	A
Track scale with shelter	100	ton				Standard.		H
Gillies:						l_	<u> </u>	a
Combined station and freight shed	60	X	30	ieet		Frame.	7	7
Cobalt:	00		011			C433	N. P	1/2
Station	80	X	$21\frac{1}{2}$	"	• • • • • •	Standard,		Ŋ
Freight shed	60	X	30		• • • • • •	Frame, st	No. 25	is.
Agent's house	28	X	$\frac{26\frac{1}{2}}{11}$			Standard		d
Section house	303	-	144			Standard.	No. 23	4
Lavatory	6	×	15	"		Frame.	110. 2	, i
Telegraph office	36	x	22	"	*****	1144	į	
North Cobult:	"	_				į		
Station	61	x	231			Standard,	No. 5-	\mathbf{A}^{\prime}
Haileybury:	1		-			1		1
Station	48	x	23	"		44	No. 3,	10
Freight shed	60	\mathbf{x}	30	"		66	No. 2.	8
Agent's house	28	x	$26\frac{1}{2}$					
Section house (under construction)	20	X	27	"			, No. 3	Ä
Lavatory	6	x	15	**	• • • • • •	Frame.	(3)	8
Tool house	14	X	16	•••	• • • • •	"	. ing	A
New Liskeard:	003	-	96	feet		Standard	No 6	A
Station	90		36 30	reet			, No. 0,	
Freight shed				ma.			enclos	A.S
Lavatory	6	X	15	feet	· · · · · · · · ·	Frame.	CHOLOS	7.0
Tool house	12			"		1 ~		1
Engine shed	30		132	66			1	À
Cattle pen	50		60	"		"	1.00	
Uno Park:	"						13	,
Station	61	· 🗶	26	(4 -		Standard	, No. 5	Ä
Closet						Frame.		
Tool house	14	x	16	feet	t		j.	A
Thornloe:	l					1		
Freight shed	20					Standard	No. 2:	. 1
Tool houses (2)one 12 x 11 ft. and	14	x		"		Frame.		3
Water tank and coal shed							enclose	:1
Section house	26	x	28	teet	t	· "	No. 13	19
Earlton: Station	Q.		00	66			No. $5\overset{\circ}{A}$	
	61	X		44	• • • • • •	Frame.	140. 0 E	_;
Closet Freight shed (under construction)	6 20			44		Standard	No. 2	
Treigns pried (direct comparence off)	1 40	-	O.			., camaara		- 3

NORTHE

PATEMENT SHOWING

Building.

trong !
freight shed
tection House
$t_{\rm cul \ houses}(2)$ one 1
وممممين الانتاك المستور
emilt sind coal suc
ler construction
Machine shop (under c
Conf chute
teal trestle
Environment house.
Laure
tool houses (2)
fool houses (2)
Cattle pen
ramp house
Laupendorf :
section house
Jane .
Section house
Water tank
America .
Action house
Landar of the control
section house
Ameles:
Action house
Tales funk
Water tank
Many (unic 188-4) :
Amore:
Section house
William :
Action house
Feet house
Tooi house
E ■Mertank
Pumphouse

Note:-

NORTHERN ONTARIO RAILWAY COMMISSION.

SHOWING BUILDINGS OWNED BY T. & N. O. RAILWAY.—Continued.

Building.	Dimension. Description	on.
forght shed	20 x 30 feet Standard, No. 2. 28 x 26½ " " No. 1. 14 x 16 "	
estion and restaurant. perght shed. Mater tank and coal shed Mater tank of turntable, (75 feet)	125 x 35 " Frame. 30 x 60 " Standard. 40,000 gallons " enclosed. 8 stalls Concrete.	
moder construction) number construction) number shop (under construction). indichute. indiction trestle. Three tenement house. indiction house indiction house fault pure (2). Caulte pen Framp house.	63 x 50 feet	
mprodurf: Metion house	20 x 27 feet Standard No. 3.	
herion house	27 x 27 " " "	
medu: Meter tenk	40,000 gallons " enclosed	
edon house	20 x 27 feet " No. 3.	
ducka: lection house		•
mete's: Mertion house Water tank	20 x 27 " " " enclosed	l .
May's (mile 188-4):	. 20 x 27 feet " No. 3.	•
Merr; Metion house	. 20 x 27 " " "	
Action house Technology Technology Technology Technology Temphouse	. 14 x 16 " Frame. 33½ x 60 " Standard enclosed	i.

Note:—All T. & N. O. Standard Houses are frame buildings.

Mechanical Department have been very much engaged during the Arthur Allan, who is in charge of Motive Power and Car Departments as follows:—

POWER AND CAR DEPARTMENT ANNUAL REPORT, 1907.

NEW LOCOMOTIVES.

ring the year 1907, following new locomotives have been added to power equipment of this railway:

new engines, No. 115, 116, 117, 118, 119 and 120, built by the Locoend Machine Company, Limited, of Montreal. These have been during the month of December, and are of the ten wheeled type, finders 19 inches in diameter, 24-inch stroke. The diameter of the on these engines is 57 inches, and they carry steam pressure of 190. These engines are of a thoroughly modern type, and are equipped tric head-lights, and are especially designed for freight traffic.

two six wheeled switch engines, No. 150 and 151, which were from the Canadian Locomotive Works, Kingston, Ont., during the 1906, have been placed in switching service at Cobalt and North Bay, been found to be a decided advantage, and have been constantly in Commission has placed contract with the Canadian Locomotive Kingston, Ont., for further order of six locomotives of the ten wheeled ich will probably be delivered to this railroad during March, 1908. been found necessary on account of increasing traffic and further nof the line north, and on account of increasing number of trains

been considered advisable to recommend the purchase of four engines (8 wheeled type) which would be used in light passenger

LOCOMOTIVE MILEAGE.

ng the year 1907, the following engines belonging to this railrun the mileage as shown below:

Miles 1907.	Engine No.	Miles 1907.
44,205 47,090 33,420 34,133 44,383 34,626 43,430 45,732 32,313 27,221	111 112 113 114 115 116 150 151	53,932 42,858 54,694 36,924 776 (New engine) 270 44,276 64,431

ENGINE DESPATCH.

The following is a statement showing the number of engines despating from the different terminal points during the year.

Terminal Station.	Number of engines despatched:
North Bay New Liskeard. Englehart	2,396 2,217 617
	Total 5,230

REPAIRS AND RENEWALS TO LOCOMUTIVES.

During the year the locomotive equipment has been maintained in grant working order, and repairs and renewals necessary from time to time have been executed.

Engine 101 which is in work-train service, had a light repair, and ver turned out of shop April 4th.

Engine 102 had light repairs at North Bay shop during month of June.

Engine 103 was taken into shop for driving tires to be turned July, 1907, this engine had to be forwarded to the Locomotive and Markette Company of Montreal, on account of main frame being broken. (On account of limited facilities at North Bay, we were unable to do repairs in our ext shop.) The engine received a new set of boiler tubes, and was returned in service in first-class condition, September 11th.

Engine 104 received light repair, and had driving tires turned. let delivered for service April 24th.

Engine 105 had necessary work done, and was delivered for August 23rd.

Engine 106 had a new cab applied, and was given a general repair. turned out for service October 16th.

Engine 108 was repaired at North Bay shop, new back casting. repainted, and turned over for freight service November 22nd.

Engine 109 received a thorough overhauling at North Bay shop. turned out March 16th, 1907.

Engine 110 was given a general repair and turned out of shop, June 26th. This engine had driving tires turned, engine and tender painted. was handed over for passenger service on trains 48 and 49.

Engine 112 was in shop for repairs to cyclinder, etc., and was turned. out March 25th, 1907. This engine was given heavy repair, and had

ing tires turned, and delivered for services August 11th. Two new tender tanks have been received, one of which was applicate passenger engine 109. The second one will be applied to engine 110 it is necessary to bring her to the shop for repairs. These two engines rather older than the balance of the equipment, having been purchased the Pittsburg and Toke English B. T. the Pittsburg and Lake Erie Railroad Co., in 1905. Since coming to road they have rendered exceptionally good service on light passenger

Engine 150, in switching service between New Liskeard and Column

ch engine has had b service. Stays in fi and renewals made he nettings in smoke examined at the precaution has been to and at such seasons mimum, nettings, as Proper records ar ation of locomotive washed out.

unting the past year ave been received f These are numbered, Iwo new second-class cd from the same ma and are calculated ight new Workmen's equipment during the ed from the Rhodes (irree, 34, 36 and 38, 1

The following passen Second-class coach, Second-class, No.**Coac**hes have had li

od 112. Coaches, No. 18 and Chicago, during 19 have been applied t cond-class coaches, not be handled at hipped to the Pres necessary work done 1, Mail Car, had and No. 7. baggae mbination baggage wheels changed, tater pipes repaired repainted and v mail and express No. 17, revarni: reful inspections : 1988, and wheels ch

the Commission ha vany, Preston. Ont.

Lach engine has had boiler washed out once every two weeks when in service. Stays in fire boxes have been regularly tested every three and renewals made where necessary.

The nettings in smoke boxes, ash pans, and the dampers, have been examined at the end of each trip during the summer season, and precaution has been taken against fire from this cause. During damp and at such seasons as the danger from this source would be reduced minimum, nettings, ash pans, and dampers, have been examined twice Proper records are kept in the Master Mechanic's office, of the of locomotive stay bolts, nettings, dampers, and also of the washed out.

NEW COACHES.

During the past year four new first-class coaches, thoroughly up to have been received from the Crossen Car Co., Limited, of Cobourg, These are numbered, 110, 111, 112, 113.

Two new second-class coaches, numbers 40 and 42, have also been These are a thoroughly substantial and are calculated to give good service.

Light new Workmen's cars (third-class) have been added to the rolling and equipment during the year. Five of these, 24, 26, 28, 30 and 32, being arrived from the Rhodes Curry Co., Amherst, Nova Scotia, and the remainar three, 34, 36 and 38, from the Crossen Car Company, of Cobourg, Ont.

REPAIRS TO COACHES.

The following passenger equipment has been repaired at North Bay Second-class coach, No. 2, in January, 1907, had necessary pipe work Second-class, No. 4, pipes repaired in March. The following firstan coaches have had light repairs, and been varnished: 106, 107, 108,

Coaches, No. 18 and 22, purchased second hand from the Hicks Comrey. Chicago, during 1906, have been thoroughly overhauled, new heater have been applied throughout, and coaches repainted and varnished.

Second-class coaches, No. 4, 6 and 8, requiring heavy repairs, which not be handled at North Bay, owing to the limited facilities, have was shipped to the Preston Car and Coach Company, Preston, Ont., to the necessary work done.

No. 1, Mail Car, had heater pipes repaired during the month of Jan-

and No. 7. baggage car during the month of February.

Combination baggage and mail car, No. 5, repairs made to coupler, one in of wheels changed, and pipes overhauled. Baggage cars, No. 11 and heater pipes repaired during March. Mail and express car. No. 3, "Faired, repainted and varnished, and turned out of the shop during April. 1: 5. mail and express car, repainted and varnished during May. Fire car No. 17, revarnished, and turned out during same month.

Careful inspections are made of all wheels and axles, also with regard

is flanges, and wheels changed where required.

NEW BAGGAGE CARS.

The Commission has awarded contract to the Preston Car and Coach pany, Preston, Ont., for four new baggage cars, two to be of the comheation baggage and mail type, and two baggage and express.

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NEW FREIGHT CARS.

During the year the following new freight equipment has been recommendated and seventy-five new flat cars built by the Rathbun Companies of Sixty thousand pounds capacity each. These can all equipped with automatic couplers, metal body bolsters, and Wester House Air Brake, and are used largely in the lumber and log traffic.

The Commission has also purchased and received from the Domission Car and Foundry Company, Montreal, one hundred steel underframe the cars, each having a capacity of one hundred thousand (100,000) possesses cars are 36 feet 9 inches long, the same length as the ordinary worder cars, and are thoroughly up to date in every particular.

NEW CONDUCTORS' VANS.

The Commission has awarded the contract to Rathbun Company. of Deseronto, for four standard conductors' vans. These have not yet been delivered.

REPAIRS TO VANS.

Van No. 50 has been rebuilt and turned out for service during December Van No. 55 has had necessary repairs done, also two pairs of wheels charged in van 52.

REPAIRS TO FREIGHT CARS.

The necessary repairs and renewals have been made by the staff of North Bay and Englehart to freight cars belonging to this road, also repairs to foreign cars handled in interchange, where necessary. Proper bills for all repairs to foreign cars have been rendered against the owners in accordance with the Master Car Builders' Rules of Interchange.

Twenty box cars have been fitted up for use as boarding cars in cum

struction service.

STEAM SHOVELS

Have received one new Bucyrus steam shovel, manufactured by the Canada Foundry Company of Toronto, which has been put into service and found satisfactory.

Repairs have been made to No. 1 steam shovel.

Snow Plows.

During month of October one new Russell snow plow has been recommended from Russell Car and Snow Plow Company, Ridgeway, Penn. This plow operated by air and is a first-class addition to the equipment for figure snow. Repairs have been made to snow plow No. 1, plow being raised front and two apron shoes applied. Plow No. 2 has also been overhand Snow flangers No. 1 and 2 have had the old mould board flangers and have been equipped with new Russell flanger made to operate by air. snow flangers have been maintained in good condition for the work for they are required.

PILE DRIVER.

During the month of December one new pile driver has been received. This was manufactured by the Industrial Works of Bay City, Michigan, supplied through the F. H. Hopkins Company of Montreal, Canadian representatives.

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e during December of wheels change

by the stair Jad, also repair Proper bills for all ners in accordance

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ufactured by it into service and

has been received This plot enn. pment for fighting ow being raised o been overhauled. d flangers remove operate by air. the work for which

has been received ty, Michigan; and , Canadian reple

AUXILIARY EQUIPMENT.

The auxiliary steam crane received during 1906 has been maintained in ini-class condition, and the equipment at North Bay and Englehart has been aill further improved by the addition of two tool cars. Two auxiliary boardcals have been received from the Rhodes Curry Company, Amherst, Nova rotia. No. 1, has been stationed at North Bay, and car No. 2 forwarded to Englehart. These cars have both been equipped with a good supply of dishes and cooking utensils, and carry necessary stock of provisions.

Flat car 60,295 has been rebuilt as a cabin car for use in connecti n with

ie auxiliary steam crane.

1907

OFFICIAL CAR "TEMAGAMI."

The official car "Temagami" has been maintained in good condition, all pipes renewed, new cabinets supplied, and revarnished during the ganth of June.

WORK DONE AND REPAIRS MADE FOR OUTSIDE COMPANIES AND FIRMS.

The following work has been done for A. R. Macdonell, Contractor, New skeard, Ont.: January, 1907, bored four locomotive driving tires for engine v. 13. Two syphon hose month of July. Bills rendered against contractor e: water supplied locomotives at Uno Park pump house, rental of steam tane and wages of operator for use on the contractor's line October 12th and The Turned two pairs of driving tires month of July, and charged coneactor for repairs to T. & N. O. box car 60,114, damaged month of Septem-Two pairs driving tires turned, engine No. 11, November. brī. Made necessary charges against contractor for engineers supplied as slots when contractor's engines were passing over our line. Engine No. 18 Loted from North Bay to New Liskeard June 15th, and No. 9 June 30th. 3 iler maker at New Liskeard expanded and caulked boiler tubes in confactor's engine No. 16, December. Rendered bill for rental of auxiliary od car, engaged in service on line north of Englehart with T. & N. O. car repairer in charge. Two brasses supplied to steam shovel passing through With Bay, December 28th.

Work done for the Cleveland Sarnia Saw Mills Company, Diver, Ont. Pattern made for locomotive, and one casting made, month of February. Pattern made for goose neck casting, June. Wire cloth screen for locomotive tacke stack, June. Six cold sets month of July. Charge made against this rempany for wages of engineer piloting engine No. 6 from Diver to North

Ar. October.

Work done for Nipissing Foundry Company: Grate bar pattern made supplied. Pattern made planer, and one-third inch globe valve, June. A small locomotive (Norah) belonging to Empire Lumber Company at tatchford, Ont., has been thoroughly overhauled, repainted and varnished

tring May.

The O'Connor Hotel and Steamboat Company: Water supplied from ramp house at Temagami station to above company, charge rendered during Loaned North Bay auxiliary tool car, November 28th, with car Pairer in charge, for purpose of drawing steam boats from water to secure

The steam crane loaned to J. R. Booth, of Ottawa, during July for purof unloading a number of boats at Latchford, and account rendered for strice.

Two new brasses, 4½ × 8, supplied to McRae, Chandler & McNeil der 14 October, for steam shovel at Earlton.

Rendered account against Montreal Refining and Reduction Company for rental of steam crane and wages of operator unloading machiners Trout Lake smelter, November.

Supplied four tanks of water, Canadian Pacific Railroad Company, jag Steam crane loaned for use at Cache Bay, July, for which account has rendered.

Steam crane loaned Grand Trunk Railway System, July 8th and 9th use at Callander, also August 3rd, for which proper accounts have been the dered.

PUMPING STATIONS.

Pumping plants and pump houses at Widdifield, Moose Lake, Reduced Temagami, Latchford and New Liskeard, have been properly many tained, regularly inspected, and necessary work done with regard to cleaning boilers and tubes, and repairs to pumps. New pumping station completed a Uno Park. Water service installed at Englehart.

Preparatory to taking over line north of Englehart water station.

been installed at mileage $164\frac{1}{2}$, 183, and Matheson.

STATION HEATING APPARATUS.

The heating equipment at following stations on line has been thoroughoverhauled, put in good working condition for winter service: Wilditan Temagami, Latchford, Cobalt, Haileybury, and New Liskeard.

SHOP EQUIPMENT AND TERMINAL FACILITIES.

New modern coal chute constructed at North Bay Junction and Err * service. A chute is in course of erection at Englehart.

New roundhouse at North Bay Junction partially completed, eight ****

are in use. The balance (7 stalls) will be completed during 1908.

Machine shop 150 feet by 50 feet completed and ready for occurstant about close of the year.

Blacksmith shop 40 feet by 30 feet and tinsmithing and pipe fitting the

about completed.

Rack for holding material has been constructed and placed in old the Pair of trusses completed for old shop, desk made and shipped to Engineer for use of Locomotive Foreman.

The following new machinery has been received during the year 1916.

for North Bay Junction shop:

One new crank pin press. One new portable pump for testing boilers.

One new 50 K.W. electric generator, from Allis, Chalmers Bulloci Cone new angine for a series of the control of One new engine for generator, from Robb Engineering Co., Ambre N.S.

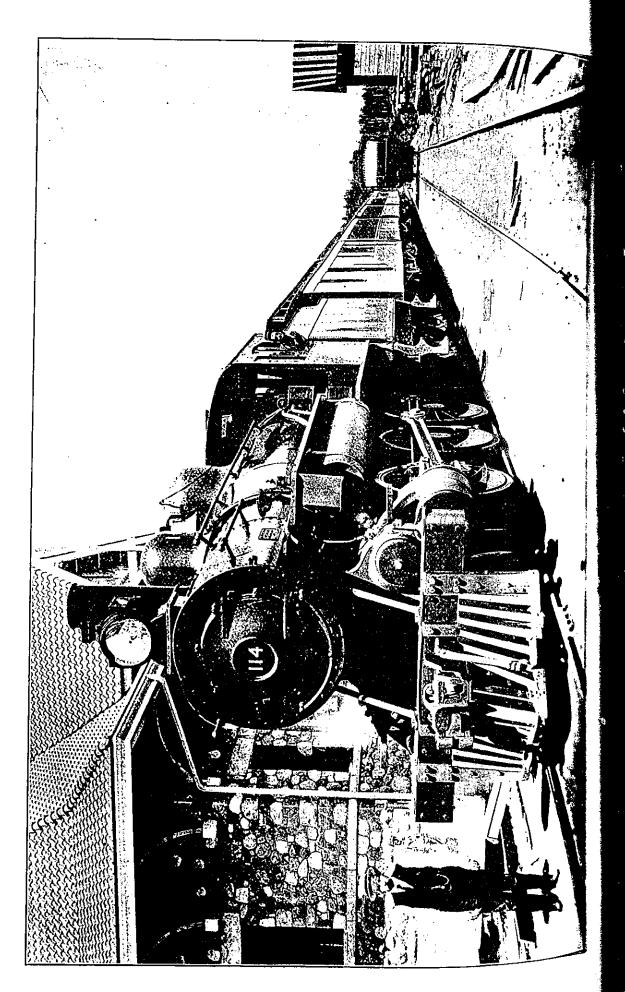
One new 40 H.P. stationary engine from Goldie, McCulloch Co.. One air compressor from the Canadian Rand Drill Company.

One new slotting machine from McGregor, Gourlay Company, Gali

One new pipe threading machine.

One new buffing wheel.

Two new McCaslin blacksmiths' forges, manufactured by the Fourth Machine Co. Manager B. and Machine Co., Monesson, Pa.



Mechanic Arthur ports as f

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new engin and Mach during the during the linders 19 on these en lectric head-we two six liftom the 1906, have been for Kingston, hich will just been for on of the

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STATEMENT OF ACCIDENTS AND PERSONAL INJURIES DURING 1907.

March 30th, Ronald McDonald struck by train No. 11, mileage 100 cutting one leg off and breaking the other in several places. Man died April

April 25th, F. J. Neff, while attempting to board down freight extent 102 at Cobalt, missed footing, fell between cars and was killed instantly May 27th, Patric Lecleir, killed at Cobalt by Temiscaming coal dent falling on him, while train No. 11 was switching in yard. Cause suppose

to have been by vibration of engine.

May 31st, six cars on train No. 12 were derailed, mileage 43, doctor

considerable damage to track and cars.

June 28th, Chas. Barrager of Tweed, Ont., passenger on passenger extra 114, south, had finger caught between vestibule of two coaches, creat

July 9th, extra 106 derailed, mileage 1341, causing death of engineer

Thos. Gold, and doing considerable damage to engine.

July 11th, ballast extra 101 pitched into freight extra 103 at mileum

5½, causing \$2,444 damage to rolling stock and track.

August 7th, train No. 4, engine 105, derailed M.P. 98, causing digital

damage to engine and \$222 damage to track.

Nov. 13th, engine 114 left train mileage 511 to go to Redwater to water, and on return ran into train damaging one of our steel flat care and tender of engine.

Nov. 21st, brakeman T. D. Charlebois, while jumping off light engine 102 at Moose Lake 1.55 a.m., missed his footing and had leg jammed between platform and step of engine, breaking leg in two places, necess sitating amputation above the knee.

Nov. 29th, Paul Degan, while attempting to board train No. 1 at Cobain after train had started, fell under wheels, cutting off both legs and butter

smashing right arm above the elbow. Man died the same day.

December 9th, train No. 46 ran into A. R. Macdonell's engine was standing foul without protection at south leg of the Wye, New Liskrash damaging contractor's engine considerably, also damaging our engine and track to some extent.

REPORT OF WILLIAM YOUNG, GENERAL ROADMASTER

Commencing January 1st, 1907, the road or maintenance of way details ment was transferred from construction to transportation or operation. by placing under my supervision the general roadmaster, William Young Report of work is as follows:

MAINTENANCE OF TRACK, 1ST DIVISION.

The track has been maintained in better surface and line during present year than in 1906, largely on account of the new roadbed gradue become more consolidated. become more consolidated. In order to maintain better gauge on track, it was found recorded. track, it was found necessary to increase the number of tie plates. slightly increase the elevation of the outer rail to meet the required A number of curves remain to be treated in like manner. of trains.

The track through Dane Yard heaved very much during the winter of 1907 and 1908, requiring shimming to the extent of 12 inches to regulate the surface, a system of tile drains were put in of 6 inch land tile covered with cindersand line brush which is expected to reduce the heaving conditions to a minimum.

The section gangs were placed on the extension of main line from Matheson to Cochrane in the month of December, tie plates added to the curves as a betterment, and much remains to be done in this direction.

Construction of Branch Lines.

All curves on the Kerr Lake, Haileybury, and Charlton branches, were supplied with tie plates on every tie, in order to hold the curved track to proper gauge.

Works under Construction at end of December not competed.

First Division.

Location.	Remarks.
No Bay Jct	Open box drain, timber 4'x4',outlet drainage from yard to Lake Nipissing. Through siding North Leg of wye. Rip Rapping, South Wabis River, under Permanent Bridge.
	Second Division.
M. P. 220	Land slide (Clay Cut) clogging ditch. Terminal sidings.

Report of Motive Power and Car Department.

(A. Allan, Master Mechanic.)

New Locomotives.

During the year 1908, the following new locomotives were added to the motive power equipment of this railway:—

Six new engines, Nos. 121, 122, 123, 124, 125, 126, built by the Canadian Locomotive Works of Kingston, Ont. These were received during the month of April. They are of the ten-wheeled type, with cylinders 19 inches in diameter, 24-inch stroke. The diameter of the drivers is 57 inches, and they carry steam pressure of 190 pounds. The weight in working order is 143,800 lbs., of which 113,675 lbs. is on driving wheels. The engines are of a thoroughly modern type (and are equipped with electric headlights), especially designed for freight service.

The six new locomotives, Nos. 115 to 120, inclusive, received from the Locomotive & Machine Company, Montreal, at close of 1907, have been con-

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stantly in service both in freight and passenger traffic, and with the six received from Kingston, have been a valuable and most necessary acquisition to the motive power equipment.

Owing to the large amount of construction work which has occupied attention during the summer of 1908, we have been heavily taxed to meet demands for traffic, and, in addition to supply the required number of engines for use in work train service, both for improvements and maintenance, and also in connection with work in hand on extension of line from Matheson to Cochrane.

It has been considered advisable, owing to the amount of work done at Englehart, to consider the purchase of two more switch engines, similar to the 150 and 151 class. In addition to the terminal work at that point we now have the Charlton Branch in operation.

Locomotive Mileage.

During the year of 1908 the engines belonging to this railway have run the mileage as shown below:--

Engine No.	Miles run 1908. Engine No.		Miles rur 1908.
101	24,171 32,402 11,433 27,797 30,738 28,773 27,854 26,091 22,410 42,759 52,459	116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 150. 151. Total.	33,435 26,973 28,090 50,564 30,130 22,569 24,828 24,478 16,974 22,582 19,830 26,187 27,964

Engine Despatch.

The following statement shows the number of engines despatched from the different terminal points during the year:—

	Terminal Stations.		Number of Engines Despatched.
	<u> </u>	· · ·	<u>`.</u>
North Bay	·····		2,308
New Liskeard	***************************************		411
Aatheson			$2{,}127$ 301
Total	•••••	-	5,147

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Engine 106, freight and work train service.

turned.

NORTHERN ONTARIO RAILWAY COMMISSION.

- Repairs and Renewals to Locomotives.
- During the year the motive power equipment has been maintained to the necessary standard of efficiency, and the repairs and renewals required
- from time to time have been executed thereon. Engine 101 taken into shop January, 1908, given a heavy repair,
- repainted and varnished, and put in freight service.
 - Engine 102 taken into shop during March; necessary repairs made and
- new set of tubles applied. Engine 104 taken in during March; received new set of driving tires,
- boiler tubes renewed, repainted and varnished. Engine 107 taken into shop during July; received new set of driving
- tires and turned out for work train service. Engine 108 required to be sent to the repair shop during October on account of cracked driving wheel centres, rendering unsafe for service. New wheel centres were received from Canadian Locomotive Works, Kingston.
- Engine has been returned to freight traffic. Engine 109 taken into shops during March; necessary repairs made and engine turned out for passenger service. This engine was derailed in work train service of Contractor T. S. Scott, near Cochrane during October. It
- is now in repair shop and will be put in serviceable condition. Engine 110 received necessary repairs during July and returned to work
- train service. Engine 111 brought to shop during February and had repairs made to
- rod brasses, etc., and returned to passenger service. Engine 112 has rendered good service on passenger trains and was repainted during July.
- Engine 113 is at present in repair shop and will be turned out in good condition.
- Engine 114 turned out during the month of February, repairs consisting principally to the tender tank and frame. Engines 115, 116, 117, 118, 119 and 120, being new power, have not required further repairs than ordinary running work to keep them in first
- class condition. This also applies to the balance of new locomotives from Kingston, which have had no extensive work done on them.
- Engle 121 repaired during July on account of damage sustained in construction service on Charlton Branch. Engine 150 had boiler work done during February, was repainted and varnished and returned to switching service at Cobalt. This engine was
- also re-tubed during month of April, which was necessary on account of extremely bad quality of Cobalt Lake water. Engine 151 turned out during the month of June with the driving tires
- New tender tank is now on hand and will be applied to engine 110 when returned to shop. The Motive Power equipment has been generally assigned during the
- year as follows:--Engine 101, freight and work train service. Engine 102, freight and work train service.
 - Engine 103, freight and work train service. Engine 104, freight and work train service. Engine 405, freight and work train service.
 - Engine 107, freight and work train service.

Engine 108, passenger, freight and work train service.

Engine 109, passenger, and work train service.

Engine 110, passenger and work train service.

Engine 111, passenger service. Engine 112, passenger service.

Engine 113, passenger and work train service.

Engine 114, passenger service. Engine 115, freight train service.

Engine 116, freight train service.

Engine 117, freight and work train service.

Engine 118, passenger train service. Engine 119, passenger train service.

Engine 120, freight and work train service. Engine 121, freight and work train service.

Engine 122, freight and passenger train service.

Engine 123, freight train service. Engine 124, freight train service. Engine 125, freight train service.

Engine 126, mixed service between Englehart and Matheson.

Engine 150, in yard service at Cobalt.

Engine 151, in yard service at North Bay Jct.

Each engine has had boiler washed out, once every two weeks—when in regular service—staybolts in fire-boxes have been regularly tested—and renewal made where broken bolts were found.

Nettings in smoke boxes, ashpans, and dampers have been regularly examined, every trip, during the summer season as precaution against fire. During damp weather and at such seasons as the danger from this source would be reduced to minimum, nettings, ashpans, and dampers have been examined twice a week. The necessary records are kept in Master Mechanic's office of these inspections, also of dates on which boilers were washed out. Considerable trouble has been experienced on new section, north of Englehart with engine in Construction service, on account of poor quality of water which at times we were obliged to use.

Repairs to Passenger Fquipment.

The following passenger equipment has been repaired at North Bay shop: First class coach 104, overhauled, painted and varnished during October. First class coach 105, given a thorough overhauling, repainted and varnished and turned out during June.

First class coach 107, two pair wheels changed during July. This coach was equipped with the Safety Car Heating Equipment and Pintsch Gas.

First class coach 110, in shop during August, equipped with Safety Car Heating System and Pintsch Gas, and also repainted and varnished.

First class coach 111, is now in repair shop at North Bay.

Second class coach 8, had necessary renewals of wheels made and was First class coach 112, received repairs in vestibule during April.

equipped with Pintsch Gas, revarnished and turned out during September.

The following second class coaches were shipped to the Preston Car & Coach Co's plant at Preston, Ont., for general overhauling, and were returned to North Bay in first class condition:

No. 2 returned July 2nd.

No. 4 returned January 24th.

No. 6 returned March 2nd.

No. 8 returned February 22nd.

Repairs to flat car 124, at Englehart, two pair steel tired truck wheels turned up in North Bay shop.

Repairs to engine 17 at North Bay.

Repairs to flat car 98 at North Bay.

Repairs to flat car 128.

Loading one car wheels on their No. 35, North Bay.

Bills have been rendered to cover all work, also for sundry oil, etc., supplied to contractor's equipment while moving south, and for water supplied to his engines from the tanks of this railway. Account has been rendered to cover damages to engine 109, for which they were responsible.

Canadian Pacific Railway.—Steam crane No. 1 was loaned to C. P. R. for use at mileage 11½ west of North Bay, January 20th, 1908, for which proper bill has been rendered. Crane was also loaned for use at Mackeys Station, October 25th, 1908, and proper bill rendered to cover charge.

One lead sink relined for the restaurant at Temagami station, during June, and proper account sent in.

Light repairs made to machinery for W. Milne & Sons at Trout Lake, during April.

Steam crane was loaned on April 15th to the Montreal Refining and Reduction Co., for unloading one car of machinery at their plant at Trout Mills, for which proper charges were made.

Work for Contractor T. S. Scott.—One track-laying machine repaired during month of April. Number of flat cars fitted up for gravel service as required. Six flat cars fitted with sides for loading coal. Twenty-four castiron lorry wheels fitted with axles during month of May. Number of jack boats, blocks, planks, chains, etc., were fitted up during May, and shipped to Driftwood City, also some short pieces of rails with necessary bridles, fish-plates, stop blocks and bolts. Coaches 16 and 20 were repaired and sold to the contractor for living cars on the construction work between Matheson and Cochrane.

Bills have been rendered monthly to cover all work done for construction, including engine rental, repairs, water supplied construction engines and other miscellaneous charges.

Rolling Stock and Equipment.

The motive power, equipment, passenger, freight and other rolling stock of this railway, December 31st, 1908, is comprised of the following:—

26 road engines.

2 switch engines.

2 official cars.

14 first class coaches.

21 second class and workmen's coaches.

4 baggage and mail cars.

2 mail and express cars.

13 conductors' vans.

7 baggage and express cars. 2 auxiliary boarding cars.

10 stock cars.

100 box cars.

489 flat cars.

3 snow plows.

2 snow flangers.

4 gravel plows.

2 steam cranes. 2 steam shovels.

·2 Lidgerwood Rapid Unloaders.

7 flat cars assigned to special service.

2 auxiliary tool cars.