

154-0-15-

343 Seventh Avenue,  
Kamloops, B. C.

October 25th, 1928.

*Architect*

DEPT. OF INDIAN AFFAIRS  
OCT 30 1928  
RECORDED

Secretary,  
Dept. of Indian Affairs,  
Ottawa.

Sir:- re Addition to Indian Residential School

I beg to acknowledge receipt of your wire of to-day's date "APPROVE CHANGING FROM CEMENT TO ASPHALT MASTIC FLOOR" I enclose herewith contractor's estimate covering this, which I received today.

yours truly

*J. Hodgson.*

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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VERY  
POOR COPY

Voucher No. 311-28

Vote No. *See note*

GOVERNMENT OF THE DOMINION OF CANADA  
Department of Indian Affairs, British Columbia

KAMLOOPS AGENCY

To John Hodgson, Kamloops, B.C.

DATE 1928 OCT.	DETAIL	AMOUNT
	To salary for Month of October, as Inspector of Construction at Kamloops Residential School. 27 days @ \$6.00 per day	\$162.00 ✓
	<u>AUTHORITY:</u> Department letter, July 9, 1928.	
		\$162.00

Recommended for Payment,  
*[Signature]*  
Registered Architect.

*sent 9/28. 6/28  
4548*

I hereby certify that this Voucher is correct, that the material has been supplied, the work performed and that the charges are fair and just; also that all expenditure has been incurred legitimately and that each item of the same is a fair and just charge against the Government of Canada.

EXAMINED and  
found correct.  
*[Signature]*

Form No. 11

*[Signature]*  
Indian Agent

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

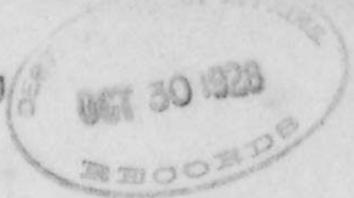
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154-0-15



RR



Letter No.....

Office of the..... **KAMLOOPS**..... Indian Agency,

*[Handwritten signature]*

October 25th, 1928. 192.....

Sir,

I enclose herewith Vouchers Nos. **311-28**.....,

amounting to \$**162.00**..... in favour

of **John Hodgson, Kamloops, B.C.**.....

for **Salary for October as Inspector of Construction**  
**at Kamloops Residential School, Kamloops, B.C.**

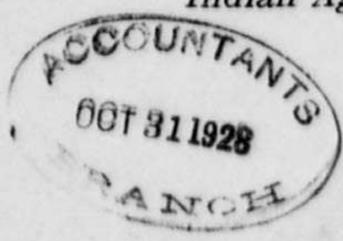
This expenditure was authorized by Departmental

Letter No. **No file**..... dated **July 9th, 1928.**.....

Your obedient servant,

*[Handwritten signature: Ewen MacLeod]*

Indian Agent.



The Secretary,  
Department of Indian Affairs,  
Ottawa.

Form No. 1

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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**CANADA**

**VERY**  
**POOR-COPY**

Letter from  
Rev. Father Welch  
re Macaulay  
in official  
file

154-0-5<sup>x</sup>  
—

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

**PUBLIC ARCHIVES**  
**ARCHIVES PUBLIQUES**  
**CANADA**

1909a

+

Ottawa, July 5th. 1926.

Dear Miss Leyden,

I have your letter of the 4th. instant with reference to an inspector for the Kamloops school. The Department hopes to be able to issue instructions to the inspector who will be in charge in the course of a day or two. The appointment is now being dealt with by the Civil Service Commission.

Yours very truly,

(W. J. Pratt)

Private Secretary.

ack.

Miss G. Leyden,  
Private Secretary to the  
Minister of Health,  
Ottawa.

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

VERY

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CLASS OF SERVICE DESIRED	
Day Message	<input type="checkbox"/>
Day Letter	<input type="checkbox"/>
Night Message	<input checked="" type="checkbox"/>
Night Letter	<input type="checkbox"/>

Patrons should mark an X opposite the class of service desired; OTHERWISE THE MESSAGE WILL BE TRANSMITTED AS A FULL-RATE TELEGRAM

# CANADIAN NATIONAL TELEGRAPHS

HEAD OFFICE, TORONTO, ONT.

W. G. BARBER, GENERAL MANAGER

Exclusive Connection  
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WESTERN UNION  
TELEGRAPH CO.  
Cable Service  
to all the World  
Money Transferred  
by Telegraph

RECEIVER'S NO.	TIME FILED	CHECK

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Ottawa, July 5th. 1928.

Lt.-Col. G. S. Pragnell,  
Inspector of Indian Agencies,  
Kamloops, B.C.

CONFIDENTIAL - REFERRING TO OFFICIAL TELEGRAM SENT YOU TODAY  
GLEAVE HAS BEEN HIGHLY RECOMMENDED TO MINISTER IN YOUR REPORT  
KINDLY GIVE HIM PREFERENCE IF POSSIBLE

Duncan C. Scott.

Charge I. A.

*DCL*

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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CANADA

VERY

POOR-COPY

1909<sup>a</sup>  
-

+

June 9, 1928.

Memorandum,-

Mr. Pratt.

With reference to your memorandum of the 6th instant, I beg to say that we have given instructions to the Architect to employ Mr. Richard Gleave, of Kamloops, temporarily as Inspector of Construction, Kamloops school, should his services be necessary before the position is advertised by the Civil Service Commission. When the advertisement issues copies of the poster will be sent to Mr. Gleave, Mr. Hodgson and Mr. Foote. The qualifications of Mr. Gleave and Mr. Hodgson have been noted here.

HOD

*Duncan Scott*  
Deputy Superintendent General.

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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## Minister's Office

J

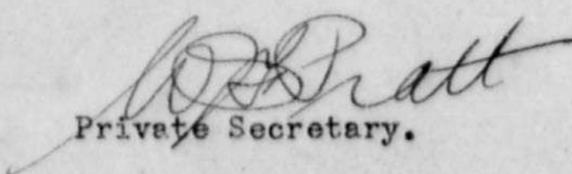
### MEMORANDUM

Ottawa, June 6th, 1928.

DR. SCOTT:

With reference to my memorandum of the 30th ultimo regarding the position of Inspector of Construction at Kamloops, if you are anxious to have someone appointed immediately I would suggest that Mr. Richard Gleave be appointed. I understand he is a brick-layer, plasterer, tiler, and has fifteen years contracting experience. He also has an all-round knowledge of building and recently worked on the Banff Hotel and other large buildings. He has splendid references and is absolutely dependable and reliable and should prove an exceptionally good man for a position of this kind.

Mr. John Hodgson is also recommended. He has worked in the building trades practically his whole lifetime and has done contracting for 25 years. He also has a splendid knowledge of work of this kind and is absolutely dependable and reliable.

  
Private Secretary.

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Ottawa, June 2, 1928.

Memorandum.

Mr. Orr.

Mr. Richard Gleave of Kamloops may be employed temporarily as Inspector of Construction, Kamloops School, pending appointment by the Civil Service Commission as a result of competition. Mr. Gleave is very strongly recommended as being competent in every way.

HOD

June 2/28.

Minister's office  
telephoned this  
instruction HOD

D. S. G. I. A.  
D.S.G.I.A.

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Minister's Office

S.

MEMORANDUM

30th May, 1928.

Dr. Scott.

Referring to your memorandum of the 26th instant regarding the position of Inspector of Construction for the unit of the Kamloops school, I may say that the following gentlemen have been recommended and I shall be pleased if you will forward copies of the posters to them:

1. Richard Gleave ✓
2. John Hodgson ✓
3. William A. Foote

*copy 24*

I understand that they all live at Kamloops.

*W.J.F. Pratt*  
W.J.F. Pratt,  
Private Secretary.

*Posters sent  
these men  
June 15/28  
file 154-0-5X*

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*COPY*

*Position being  
advertised  
see official  
file*

X

May 26, 1928.

Memorandum,-

Mr. Pratt.

I beg to acknowledge the receipt of your memorandum of the 23rd instant, with reference to an Inspector of Construction for the unit of the Kamloops school which is being built this year, and to say that when we are in a position to do so we will advertise the position. Note has been made here of the recommendation in favour of Mr. Wm. A. Foote, of Kamloops.

*H.S.*

*D. D. Macaulay*

Deputy Superintendent General.

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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AY  
OR-COPY

**Minister's Office**

S.

**MEMORANDUM**

23rd May, 1928.

Dr. Scott.

Referring to your memorandum of the 8th instant regarding the appointment of an Inspector of Construction on the unit for the Kamloops Indian School, I may say that Mr. W.H. Macaulay, who was Inspector when the first part of the School was under construction, is not now a resident of Kamloops and, therefore, I presume it will be necessary to re-advertise the position.

In this regard I may say that Mr. Wm. A. Foote of Kamloops has been very strongly recommended and a copy of the poster should be forwarded to him so that he may make application. He is an experienced contractor and lumberman and is reported as being fully capable and dependable.

*W. Pratt*  
Private Secretary.

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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154-0-5 X

May 8, 1928.

Memorandum,-

Mr. Pratt.

We expect that during the early summer work will be undertaken on another unit for the Kamloops Indian School, Kamloops, B.C., and an Inspector of the work during construction will be required. Mr. W. H. Macaulay was Inspector when the part of the school already built was being erected, and, in case we could arrange his re-employment with the Civil Service Commission, will you kindly let me know if this would be agreeable to the Minister?

*copy*

*W.H. Macaulay*  
Deputy Superintendent General.

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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POOR COPY

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CLASS OF SERVICE	SYMBOL
Day Message	
Day Letter	Blue
Night Message	Nite
Night Letter	N L

If none of the above symbols appears after the check (number of words) this is a day message. Otherwise its character is indicated by the symbol appearing after the check.

**CANADA  
TELE**

HEAD OFFICE, TORONTO, ONT.

**INTERNATIONAL  
GRAM**

W. G. BARBER, General Manager

FORM 612.

Exclusive Connection  
with  
**WESTERN UNION  
TELEGRAPH CO.**  
Cable Service  
to all the World  
Money Transferred  
by Telegraph

RA527 21 4 EXTRA RUSH

KAMLOOPS BC 5 337P

1928 JUL 5 PM 7:23

DR DUNCAN C SCOTT

DEPUTY SUPT GENL DEPT INDIAN AFFAIRS OTTAWA ONT

RE YOUR CONFIDENTIAL TELEGRAM REFERRING TO OFFICIAL TELEGRAM OF SAME

DATE HAVE NOT RECEIVED SAID OFFICIAL TELEGRAM

G S PRAGNELL INSPECTOR INDIAN AGENCIES..

Indian Affairs (RG 10 Volume 6448, file 882-5, part 5)

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CANADIAN NATIONAL RAILWAYS

New  
Form 225  
replaces  
G.T.P. E11



4648

Dominion Government  
Dept of Indian Affairs  
Ottawa  
Ont

Via

Give full route to destination

3-26 PRINTED IN CANADA

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- P R O P O S A L -

For the sum of Thirty-one Hundred Dollars, (\$3,100.00)

I, we, the undersigned bidder, proposes to do all the work and to supply all the material and equipment necessary for the installation of the above-described pumping unit in accordance with and in the manner required by the attached plans and specifications

accompanying this proposal; and bind <sup>myself</sup> <sub>ourselves</sub> upon

the acceptance of this proposal to execute a contract with necessary bond, if required, of which this proposal and the attached plans and specifications shall be a part, for the performance and completion of the said work within the time required by and in the manner called for by these plans and specifications.

FERNIE BROS.

Signed \_\_\_\_\_

Accepted for Department  
of Indian Affairs

*[Signature]*  
.....  
District Chief Engineer.

October 13, 1928.

In the presence of

(Witness \_\_\_\_\_  
\_\_\_\_\_

(Witness \_\_\_\_\_  
\_\_\_\_\_

Signed and dated at Kamloops, B.C. on the 5th  
day of October, , 1928.

Indian Affairs (RG 10 Volume 6448, file 382-5, part 5)

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- NOTICE TO BIDDERS -

Information contained under Part 2 of these specifications,

"MATERIAL AND FITTINGS TO BE SUPPLIED BY THE CONTRACTOR" has been compiled for general estimating purposes only.

Intending bidders must satisfy themselves that the number, amount, etc. of material and fittings called for under Part 2 of these specifications and which must be supplied by the contractor are sufficient in number and quantity to make a complete and satisfactory installation when they have been assembled together.

No extra charges for additional fittings under Part 2 of these specifications, except where such fittings may reasonably be included under the heading "Extra Work", will be allowed. (See Paragraph 3, Page 4, Part 1 of these specifications)

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SPECIFICATIONS

for

The Supply and Installation of a Pumping Unit

at the

Kamloops Industrial School,

Kamloops, B. C.

Prepared for

Department of Indian Affairs,

by

Dominion Water Power and  
Reclamation Service,  
Kamloops, B. C.

September 11th., 1928.

Approved

  
District Chief Engineer,  
Dominion Water Power and  
Reclamation Service,  
Vancouver, B. C.

P A R T 1.

TERMS OF CONTRACT

The bidder to whom an award is made shall execute a written contract with the Department of Indian Affairs, and, if bond is required, furnish good and approved bond within seven days after receiving the form of contract and bond for execution.

If the bidder to whom an award is made fails to enter into a contract as herein provided, the award will be cancelled, and an award may be made

to the bidder

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to the bidder whose proposal is the next most acceptable in the opinion of the Department of Indian Affairs.

ENGINEER

The word "Engineer" used in these specifications or in the contract means the District Chief Engineer of the Dominion Water Power and Reclamation Service, Vancouver, B. C., acting on behalf of the Department of Indian Affairs, who will be represented by assistants or inspectors authorized to act for him.

On all questions concerning the acceptability of material or machinery, the execution of the work and the determination of costs, the decision of the engineer shall be final.

CONTRACTOR

The word "Contractor" used in these specifications or in the contract means the person, firm or corporation with whom the contract is made by the Department of Indian Affairs.

The contractor shall, during the erection of the plant, be represented on the works in person or by a foreman or duly designated agent, and instructions or information given by the engineer to the contractor, foreman or agent shall be considered as having been given to the contractor.

MATERIAL AND WORKMANSHIP

All machinery and material must be of the specified quality and equal to approved samples, if samples have been submitted.

All work shall be done and completed in a thorough workmanlike manner, notwithstanding any

omission from these

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omission from these specifications or the drawings.

All material furnished and all work done must be satisfactory to the engineer; work not in accordance with these specifications in the opinion of the engineer shall be made to conform thereto.

Unsatisfactory work or material may be rejected by the engineer at any stage of the work and if so ordered by the engineer shall, at the contractor's expense, be immediately removed from the vicinity of the works.

The absence of an inspector at the time the work was carried out shall not relieve the contractor from his responsibility to perform a satisfactory class of work.

#### DELAYS

The contractor shall receive no compensation for delays or hindrances to the work, except when, in the judgment of the engineer, direct or unavoidable extra cost to the contractor is caused by the failure of the Dominion Water Power and Reclamation Service to provide necessary information or site for installation.

All decisions of the engineer with regard to any claims for compensation shall be accepted by the contractor and regarded by him as final.

#### CLIMATIC CONDITIONS

The engineer may order the contractor to suspend work at any time should he consider that this work may be damaged by climatic conditions.

When delay is caused by an order to suspend work given on account of climatic conditions,

the contractor shall

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the contractor shall be entitled to a reasonable extension of time on account of such an order and the engineer's decision as to what constitutes a reasonable extension of time shall be considered as being final.

CHANGES

The engineer may, upon notice to the contractor and without notice to the sureties on the contractor's bond, make such changes in the work or in the design or in the amount of materials required as the engineer may deem advisable; if such changes result in an increase or decrease of cost to the contractor the engineer will make such additions or deductions on account thereof as he may deem reasonable and proper, and his action shall be final.

EXTRA WORK OR MATERIAL

In connection with the work covered by this contract, the engineer may order work or material not covered by these specifications. Such work or material will be classed as extra work and will be ordered in writing. No extra work will be paid for unless ordered in writing and only at the rate or amount fixed upon in the written order.

INSPECTION

All materials furnished and work done under this contract will be subject to inspection.

The contractor shall furnish complete facilities, including the necessary labour, for the inspection of all material and workmanship.

The engineer shall have at all times free

access to all

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access to all places where materials under construction are being stored, manufactured or installed, and all materials or work that do not conform to the specifications, accepted through oversight or otherwise, may be rejected at any stage of the work.

ERRORS AND OMISSIONS

The contractor will not be allowed to take advantage of any error or omission in these specifications or drawings; suitable instructions will be given where an error or omission is discovered.

SPECIFICATIONS AND DRAWINGS

The engineer will furnish the contractor with such detailed plans and information as he may consider necessary for the contractor's guidance.

DATA TO BE FURNISHED BY THE CONTRACTOR

The contractor shall furnish the engineer reasonable facilities for obtaining such information as he may desire respecting the character of the material and the progress and manner of the work, including all information necessary to determine its cost, such as the number of men employed, their pay, the time during which they worked on the various classes of construction, etc.

DAMAGES

The contractor will be held responsible and required to make good, at his own expense, all damages to person or property caused by carelessness or neglect on the part of the contractor, his agent or employees.

CHARACTER OF WORKMEN

The contractor shall not allow his agents  
or employees to

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or employees to trespass on lands or premises in the vicinity of the work; and shall, when required by the engineer, discharge any person in his employ who is, in the opinion of the engineer, disorderly, dangerous, incompetent or objectionable.

METHODS AND APPLIANCES

The methods and appliances adopted by the contractor shall be such as will, in the opinion of the engineer, secure a satisfactory quality of work and enable the contractor to complete the work in the time agreed upon.

If at any time the methods or appliances appear to be inadequate, the engineer may order the contractor to improve their character or efficiency and the contractor shall conform to such an order; but the failure of the engineer to order such improvement of methods or efficiency will not relieve the contractor from the obligation to perform a satisfactory class of work and to finish it in the time agreed upon.

PROTECTION

The contractor shall be responsible for all material furnished him and for the care of all work until its completion and final acceptance.

The contractor will be responsible for the safety of all men engaged upon the work and shall adopt such methods of construction as will ensure their well-being, and shall accept full liability for all damage suits, claims for compensation, etc. arising out of any injury to an employee working

under his control.

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under his control.

COMPLETION OF WORK

The contractor shall complete the work in the time agreed upon in this contract and shall, upon its completion, remove all plant, rubbish or unused material at his own expense.

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PART 2.

MATERIAL AND FITTINGS TO BE SUPPLIED BY THE CONTRACTOR

CONCRETE (Machinery Foundations)

- 2 cu. yds. 1:2:4 mixture,  
comprising - cement 12 sacks  
sand 1 cu. yd.,  
gravel or  
broken stone 1.8 cu. yds.,  
water

MACHINERY

- 1 2200 volt, 3 phase, 60 cycle, A.C., squirrel-  
cage induction motor, complete with starter,  
switches, overload and no voltage release,  
1) direct connected to  
1 single stage, double suction, split casing,  
centrifugal pump, capacity 500 U.S. g.p.m.  
against a pressure of 100 lbs. per square  
inch at the discharge with no suction lift.  
Pump and motor to be mounted on a single  
cast-iron base of suitable dimensions.

ELECTRICAL EQUIPMENT

Switches

- 2) 1 60 Amp., 2500 volt, manually-operated non-  
automatic oil switch (wall type)  
3) 3 standard 60 Amp., 2500 volt, disconnecting  
expulsion fuses, mounted on porcelain blocks  
4) 1 standard steel cabinet of sufficient size to  
contain 3 expulsion fuses, 2 meter trans-  
formers and necessary metering equipment  
5) 1 60 Amp., 2500 volt, outdoor type, 3-conductor  
pothead for No. 6 B & S gauge, lead-covered  
cable  
6) 3 3-conductor condulets  
7) 50 lin. ft. (approximately) 1½" dia. sheradized  
cable conduit  
8) 50 lin. ft. (approximately) No. 6 B & S gauge,  
3-conductor, double-braid, lead-covered  
copper cable (working pressure 2500 volts)

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COOR-COPY

- 9 -
- 9) 1 30 ft., 8" top, butt-treated cedar or long leaf pine pole, equipped with standard cross-arm, cross-arm braces, insulators, etc. for 3-conductor, 2200 volt circuit
  - 10) necessary No. 6 B & S gauge, triple-braid, weatherproof copper wire to connect above pole with existing power line
  - 11) 2000 lba. ft. No. 14 B & S gauge, lead-covered Duplex wire, 600 volt
  - 12) 1 standard 220 volt, single pole, single throw knife switch, suitably mounted in a steel cabinet and externally operated
  - 13) 1 standard enclosed type float switch, 220 volt, A.C., complete with copper float, counterweight, chain, etc.

### FITTINGS

#### Increasers

- 14) 1 standard 4" dia. to 6" dia. cast-iron flanged increaser
- 15) 3 standard 6" dia. to 8" dia. cast-iron flanged increasers

#### Tees

- 16) 1 standard 6" dia. cast-iron flanged tee

#### Elbows - Wrought-Iron

- 17) 4 2" dia. wrought-iron elbows

#### Elbows - Cast-Iron

- 18) 1 standard 6" dia. cast-iron flanged elbow
- 19) 2 standard 4" dia. cast-iron flanged elbows
- 20) 1 8" dia. cast-iron long radius 90° elbow, flanged

#### Gate Valves

- 21) 1 standard 4" dia. cast-iron, bronze-mounted flanged gate valve, non-rising stem
- 22) 4 standard 6" dia. cast-iron, bronze-mounted flanged gate valves, non-rising stems
- 23) 1 2" dia. gate valve, threaded, non-rising stem

#### Foot Valves

- 24) 1 standard 8" dia. cast-iron flanged foot valve and screen

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copy

Check Valves

- 25) 1 6" dia. cast-iron, bronze-mounted horizontal swing check valve, flanged

Crosses

- 26) 2 6" to 6" to 4" flanged reducing crosses, run and 1 outlet 6", 1 outlet 4"

Flanges

- 27) 3 standard 4" dia. cast-iron flanges (for 4" dia. wrought-steel pipe)

Reducing Flanges

- 28) 1 4" dia. to 2" dia. reducing flange, 2" outlet threaded

Gaskets

- 29) 7 4" dia. No. 27 gauge full-face copper gaskets  
30) 14 6" dia. No. 27 gauge full-face copper gaskets  
31) 5 8" dia. No. 27 gauge full-face copper gaskets

Wrought-Steel Pipe

- 32) 1 9½ in. length 6" dia. W.S. pipe, flanged  
33) 1 4' length 4" dia. W.S. pipe, flanged one end  
34) 1 18' length 8" dia. W.S. pipe, flanged  
35) 1 5'6" length 4" dia. W.S. pipe, flanged

Wrought-Iron Pipe

- 36) 1 10' length 2" dia. W.I. pipe, galvanized

Bolts

- 37) 56 5/8" x 2 3/4" bolts and hex nuts  
38) 112 3/4" x 3" bolts and hex nuts  
39) 40 3/4" x 3 1/4" bolts and hex nuts

Foundation Bolts

- 40) 6 1 1/8" dia. x 30" steel bolts and hex nuts

Miscellaneous Fittings

- 41) All other necessary 2" dia. pipe and fittings for priming pipe

P A R T 3.

WORK TO BE PERFORMED BY THE CONTRACTOR

Upon receipt of his contract, the contractor shall, at the place designated by the plans accompanying these specifications and in the buildings provided for that purpose, install and erect all machinery, pipes and fittings called for in this contract, which work shall include the proper installation of

- 1) 1 - electrically-operated pumping unit, capacity 500 U. S. gallons per minute;
- 2) The installation of all pipes, valves and fittings in connection with this pumping unit as called for by the accompanying plans;
- 3) The dismantling, removal and reconstruction of approximately 600 feet of existing 2200 volt power line;
- 4) The installation in a concrete reservoir which will be provided by the Department of 1 electrically-operated float switch and the connection by means of approximately 2000 lineal feet of lead-covered wire (buried) of this float switch with the no-voltage release coil situated on the compensator of the above pumping unit;

and the contractor shall perform all labour necessary for the proper installation and erection of the pumping unit, power line, etc., and when the above pumping unit has been properly installed and tested, connect said pumping unit to the outside water main and power line as directed by the engineer.

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PART 4.

DETAILED SPECIFICATIONS.

CONCRETE

Concrete used for the foundations of the machinery shall be composed of the following ingredients proportioned by volume into what is known as a 1:2:4 mixture:

cement	1 part
fine aggregate	2 parts
coarse aggregate	4 parts
water	

CEMENT

The cement shall be a first-class Portland cement of standard brand, free from lumps or foreign matter, and until it is used shall be stored in a building which will protect it from the weather.

FINE AGGREGATE

Fine aggregate shall consist of sand, crushed stone or gravel screenings; the particles shall be hard, dense and durable and such that they will pass through a 1/4 inch mesh screen. It shall be clean and free from soft particles, clay, loam and all organic matter; and it shall be so graded that when dry and well-shaken the voids will not exceed thirty percent.

COARSE AGGREGATE

Coarse aggregate shall consist of crushed stone or gravel having its smallest particles approximately 1/4 inch in diameter and its largest particles approximately

particles approximately  $\frac{1}{8}$  inches in diameter. It shall be graded from the smallest to the largest particles and shall be clean, hard, durable and free from all deleterious matter.

WATER

Water used in mixing concrete shall be free from oil, acid, alkalies or organic matter.

PUMP

The pump to be supplied by the contractor shall be a high-grade, cast-iron, split-casing, double-suction centrifugal pump, bronze-fitted throughout.

It shall be equipped with a bronze impellor of the non-overloading type, so designed that it will not overload the motor more than 25% should the operating head on the pump be suddenly removed.

It shall be capable, when being driven at its rated speed, of delivering 500 U.S. gallons per minute at the discharge against a pressure of 100 pounds per square inch when operating with no suction lift.

MOTOR

The motor to be supplied by the contractor shall be a high-grade, 2200 volt, 3 phase, 60 cycle, A. C., squirrel-cage induction motor, of suitable horse-power to operate the above pump at its normal running speed.

The motor shall be capable of carrying a continuous overload equivalent to 100% of the normal name-plate rating, and shall not be of larger horse-

power than is

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