

C.S.

DEPARTMENTAL
(Public Works)
PUBLIC WORKS
(Miscellaneous)

UTI/PWD/2#26

19 43.

No. 74/43.

Executive Engineer

SUBJECT.

19 43.

5th May.

Previous Paper.

REORGANIZATION OF THE SYSTEM OF STONE
COLLECTION, STONE CRUSHING AND BLOCK
MAKING IN THE PUBLIC WORKS DEPARTMENT.

See 0528 (Blocks - Concrete)

MINUTES.

Minute from Executive Engineer of 5th May, 1943.

(2).

Ex. Eng.

*It certainly seems that the useful life of the
Quarry is ended & your proposal for a damage
Claim from the R.F's is approved. You will no doubt
submit the agreed figure for approval in due
course.*

*2. As I understand it you now wish to resort to
quarrying only for building stone & this at Charles
Ordance Point, using surface stone for crushing.
You should certainly pursue your investigations into
the possibilities of this but you will naturally not
expect Govt. to commit itself until you have
submitted a detailed report covering capital & recurrent
costs showing your proposals to be economic - together
with precise recommendations as to site etc. In the
latter connection I should deprecate the use of
Sappu Hill as this area is a definite amenity of Stanley
& should not be spoiled.*

3. I await your recommendations with interest.

*KB.
13/5*

Subsequent Paper.

Minute from Executive Engineer of 29/5/43. 3.
9/6/43. 4.

Y/E.,

(5)

This M.P. deals with proposals by the Executive Engineer in regard to (a) stone-crushing for roads and (b) concrete block making for construction work, including concrete gate-posts, etc.

2. (a) Stone crushing. I was able to put the Ex. Engineer in touch with the Military regarding this and road maintenance generally and the scheme described in para: 3 of (4) is the result. I have told the Force Commander that the technical advice of the Ex. Engineer is always at his disposal.

The quarry has been virtually worked out by the R.E.'s and I recommend acceptance of £143. 3. 3. as compensation. Eliza Cove seems to be the preferable source of stone, particularly as the repair of that road will, Dr. Gibbs tells me, enable him to extend plantings in that area. The cost of removing the stone-crushing plant to the Cove will be £125. It should be charged to Roads, the S.W. if one proves necessary later, being offset by the £143 accruing to Revenue, leaving a favourable balance of £18. I also recommend the proposals in para: 3 of (4) referred to above.

3. (b) Block-making. This will no longer be possible at the quarry. The Ex. Eng. is anxious for the making of artificial stone to continue with as little interruption as possible partly because he is making increasing use of this material in place of imported timber, but chiefly in order to ensure a "wet-time" occupation for his men (an important consideration in view of the necessity for wet-time payment). He cannot make temporary use of store-sheds because they are overflowing with the recently purchased R.E. stores. In the circumstances, therefore, I think he has a case for asking for the project to be proceeded with now rather than waiting for funds to be provided in the 1944 estimates. The cost will be £155 against XIX/7. Minor Works.

XIX/7.	Provision		£250
	Town Hall Lavatory		
		£100	
	Petrol storage tanks	95	195
	Balance available		£55

The vote will, therefore, be overspent by £100 with £18 offset by credit to revenue, and some return for our wet-time wage-payments. If Y.E. considers this expenditure justified, I will have proper plans for the block-making shed prepared.

4. I might mention that such natural stone as may be needed for building purposes is now being fetched from near Ordinance Pt. where a very good variety is obtainable.

App'd by H.E.

KB.
9th June, 1943.

Minute to Executive Engineer of 14.6.43.
Minute from _____ 7.2.44.

6.

G.K.

(7)

I submit plans for the block-making shed in the document approved for last year but only just started. The plans should have been submitted before work started. I have investigated the question of storage accommodation and consider that the addition of a long attic store at an extra cost of £45 is fully justified. With large stocks of R.F. stores & other army supplies to be stored for the next two or three years the new store will pay for itself in the saving on deterioration alone.

2. I have provisionally allowed the R.F. Req. £200 for this minor work in the Forward Requisition for the present quarter. As nearly all the material will come from the old quarry building I have hopes that the estimate will not be exceeded.

? app^d by Board.
S.M.O. says B of H. not interested

9/2/44

N.B.
9.2.44

- 9. Minute to Executive Engineer of 10. 2. 44.
- 10. Minute from Executive Engineer of 15. 2. 44.

Ex/Req.

Recd

Spoke R. Req. & advised him again that only £200 had been approved for this minor work.

N.B.

16. 2. 44

- 12. Minute from Executive Engineer of 23. 3. 44.

~~pa~~

G.F. To section (10).

- As I mentioned before the estimation for this
 timber work was far too low. The excuses given are
- (a) that the concreting done by the labour gang
 was twice as expensive as it should have been
 owing to inefficiency, &
 - (b) that the timber from the quarry building
 turns out to be largely unsatisfactory.

Scarcely an
 expense - this
 should certainly
 have been present

Why not examined
 before deduction
 of the building?
 No expense

2. Thanks to the new system of control by Fin. Reg.,
 the work has been stopped before overexpenditure
 occurred. I then inspected the job & the
 materials at the quarry. The iron is usable
 there may be enough timber to do most of
 the original shed as originally planned.

3. If we revert to the first plan we save
 £302. (on present figures - which are now perhaps
 too high!). Now that written huts are available
 I think we should do this as I cannot imagine
 having to pay more than £100 for a hut. We
 require a hut at Snake Hill for storage for
 Artillery gear & we could take another for
 P.W.D. stores - and the inconvenience need not be
 great if care is taken as to the type of stores
 put there.

I can

4. Let Time pay is a heavy burden - at least £150 a year -
 & this shed will save most, if not all, of it.

5. I recommend further expenditure of £157 as asked for (if huts
 are available under known terms).

KB
 27.3.44

Very well; but
 I have concerns
 why can't estimate
 be properly prepared
 it is deplorable
 that we have to
 submit always
 to blackmail

[Signature] 27/3/44

- 14 Minute to Executive Engineer of 29. 3. 44.
- 15 Excerpt from Minute to Executive Engineer of 10. 8. 46
- 16 Minute from Executive Engineer of 15. 8. 46.
- 17 Excerpt from letter from Public Relations Cttee. of 27.8.46.

18

E.E.

(17) for your view, please. (I have not overlooked (16)).

ABE
3.9.46

(19)

Honorable Colonial Secretary.

I can only suggest that 16 para. 2 & 3 be extracted & sent to P.R.C. with a note that this report was sent to you 15. VIII. 46 i.e. before they raised the point.

I understand the Cttee are concerned at the long haulage but feel sure they will realize it is in fact better if they know that the alternative is carting stone to the Quarry (Cf. Coals - Newcastle) might they also see 16. on Ref. 74/43. hereon.

W.S.F.
5.11.46.

The Grading Suggestion would mean that more bedding of some sort would be necessary to fill in the interstices between larger stones. Similarly to remove stone dust would mean more sand in concrete.

W.S.

20

Chairman P.R.C. has seen his file. There is a letter on its way, I believe.

ABE
10.9.46

- 21. Extract from letter from Sec. P.R.C. of 10.9.46

22

This can rest for the present. Action is proceeding in 199/39. X of 21 is not to be answered. P.A.

ABE
12.9.46

Copy of letter to Chairman, Public Relations Cttee. of 25.9.46 23.

Minute from Executive Engineer of	2. 10. 46.	24.
Excerpt from Minutes of P. R. Committee of	23. 9. 46.	25
" " " from Executive Eng. "	2. 10. 46.	26.

(27)
By (25) - (26) for
next P.R. Able

Letter from Manager, E. L. W. of 8. 5. 47 28 21.X.46

29
'I.A.' then to E.E. for his remarks re

30. Able
10.5

(28) for your remarks, re.

12.5

(31)

Amman abli Colonial Sunday.

If Govt. are considering buying such a machine I would not recommend this one as it is American & would mean dollar expenditure & a very much better machine could be purchased in U.K. I have no doubt.

In passing this machine would consume about 11 yds. crushed metal per hour we can turn out about 20 - 24 per drum so new crushers would be needed as well & more men to work them. A mason lays say 100 blocks a day or say 12 an hour we should \therefore need 50 masons & 50 labourers to keep up with the machine. I fear its output is too good for F.I. at present.

A.S. E.
13.V.47.

32

Re. convey the substance of the above to
Mr. Rao, with thanks.

Able
13.5

(1.)

MINUTE.

No.



5th May, 19 43.

From

To The Hon.

THE ~~XXXXXXXXXXXXXXXXXXXX~~
Executive Engineer.

Colonial Secretary,

Stanley, Falkland Islands.

Stanley.

1. The Royal Engineers are about to hand back the quarry and by the next Fitzroy I am hopeful that the replacement of Jaws lent to them for the crusher will be received. Stone for road repairs will then become available and the quarry for use, as in the past, for the employment of spare labour at any time and all labour during wet time.

2. There has always been difficulty in the use of the quarry for this purpose, supervision is difficult and cannot be continuous with the resultant tendency for idling. What however is more important is that the stone can no longer be quarried there economically. This was confirmed by the R.E.s who with far more facilities in the way of rock drills and skilled blasting ceased quarrying after a few weeks and carted stone to the crusher in the quarry buildings, as had been done by this Department. This method is most costly and while the point is not so serious when only small quantities are concerned for the large amounts we shall now need it is a very serious additional expense, which, by small capital expenditure ^{could} be avoided. My proposals are:-

- (a) that the crusher plant be moved to the site of the stone supply.
- (b) the block making machinery be moved and housed in the Dockyard.

I attach a diagram to illustrate present and proposed methods of stone collection and crushing and blockmaking which I feel make the above points clear.

3. The above proposals would in addition to rationalising work and output and easing transport, mean the quarry site would no longer be used for quarrying or any work, and would become available for other purposes - e.g. public tennis courts etc. - but more important still the potential danger to Government House from blasting would be removed and the whole area around no longer be sterilised for development.

4. There are three possible alternative sources of stone supply,

- (a) the South east and South Sides of Sapper Hill.
- (b) Benders stone run.
- (c) Eliza Cove.

Each has advantages and disadvantages and until further data is available no recommendation can be made at this stage. A full report will however be made if the proposal in general is agreed

5. I also attach a survey plan of the Dockyard. Other than the main store, the Timber Store and the Garage there is not a useful size building available, as it is just a result of haphazard patchwork additions in the form of "lean Tos" small huts etc: I have indicated in red an area that could be used for a new artificial stone making plant and cement store. In this location men could immediately be profitably put to work if the day turned wet. Enough material would be found in pulling down the various lean tos and sheds and the quarry building, only part of which would need to be re-erected at the Stone Scource.

m 6. While the Scheme will be of immediate benefit if adopted, its use after the war when the labour strength of the Department may suddenly be increased by 300 - 400% would be of immense value. (18)

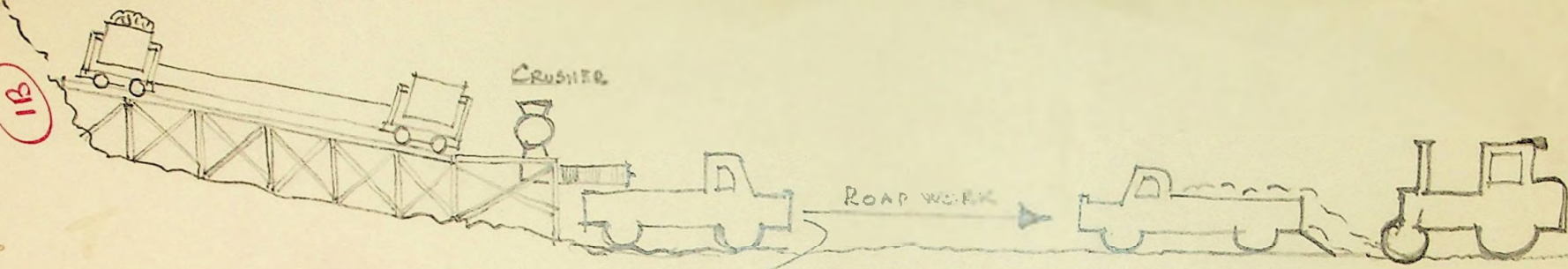
7. No provision for this work has been made in current estimates and no suitable vote head exists. As it would be impossible for the R.E.s to re-instate the quarry prior to their departure and as I have this proposal in mind, it has been provisionally agreed that it shall be treated as a "damage claim" and a provisional figure of £143. 3. 3d. is being discussed. If as I have every reason to believe it will be, this Sum is accepted by both Military and Government then I submit the money be used for this proposal. It would, involving as it does, 95% labour employ nine men for five weeks. If this proposal is not approved then the sum in question will easily restore the Quarry buildings,

8. Your instructions in due course will be appreciated.

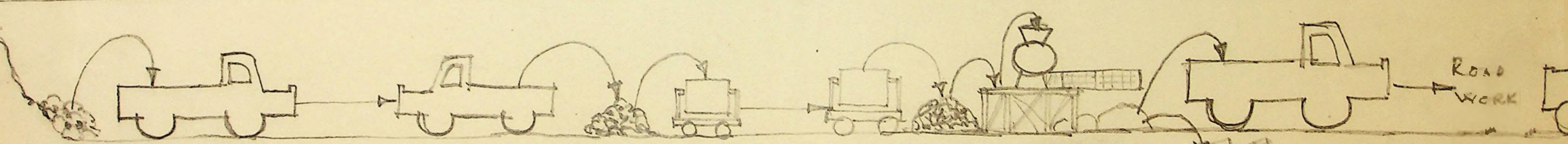
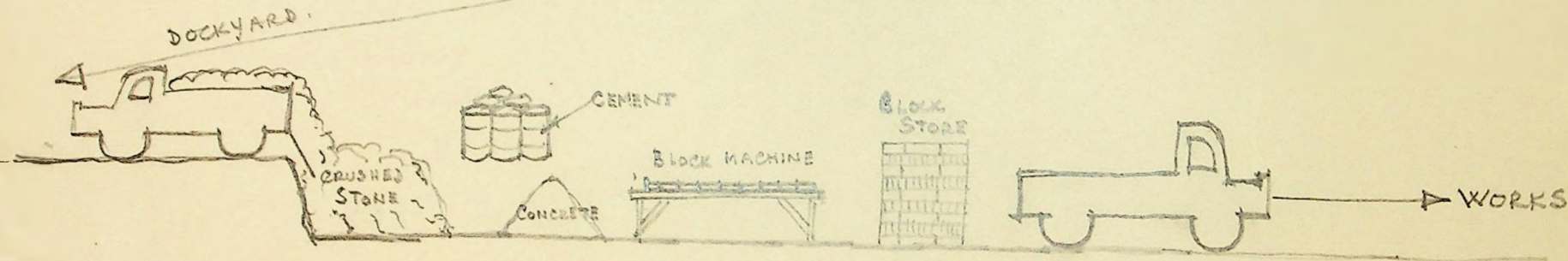
Rush Woodgate

Executive Engineer.

STONE SOURCE.

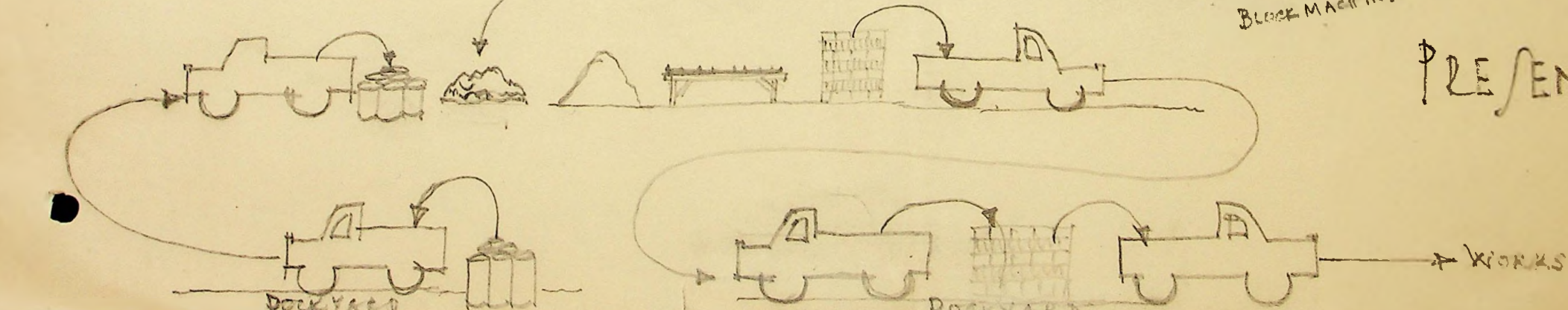


PROPOSED.



To
BLOCK MACHINE.

PRESENT.



MINUTE.

No.

29th May, 19 43.

From

To The Hon. Colonial Secretary,

EXECUTIVE ENGINEER,
THE ~~COLONIAL SECRETARY.~~

Stanley.

Stanley, Falkland Islands.

In continuation of my minute of the 5th inst. (red 1) I have now given further consideration to the matter and submit the following reports on (a) source of stone supply and (b) financial report as called for.

2. In company with my foremen (Messrs. Lees and Barnes) I have inspected each of the three alternatives referred to in para 4 red 1. As basic requirements we laid down that above all else the source must ensure

- (a) No further blasting necessary.
- (b) Nonexcessive breaking down of stone with hammers before being put into the crusher.
- (c) Ease of access. (d) A minimum of 10 years life.
- (e) If possible, gravity feed to crusher.

We came to the definite conclusion that no other sources were worth considering on account of two or more of the above requirements not being met. In passing I would point out that such building stone as is needed will have to continue to be brought from Rabbit Cove until a nearer out- , crop of similar stone can be prospected.

3. The following notes and comments are given on each of the three positions.

(a) Sapper Hill. Blasting will be necessary after a few weeks if not at once and the lumps will need to be broken down considerably by sledge hammers. Access is good but the proximity of a through road would need special additional precautions if and when blasting was in progress. Gravity feed to crusher would be possible. If Sapper Hill is used after the war as before for recreational walks and picnics its use as such would be seriously effected. Sapper Hill Road would need repairing. The supply is virtually unlimited. This source is slightly nearer than the others.

(b) Benders Stone Run. Blasting would be unlikely here but heavy hammer work would be continuous. A road of some 500 yards would be necessary from present road to Wireless Station to suitable site for crusher. Gravity feed could be easily planned. The Wireless Station and camp road would have to be put in first class repair.

If this was once done both Navy and Army would expect Government to continue to do so, and in view of the very heavy usage by the former the latter would be saddled with a heavy liability. This applies to a less degree to Sapper Hill Road. The life of this source is almost unlimited. This source is furthest away.

(c) Eliza Cove. No blasting would be necessary here and only a negligible amount of cracking with hammer. Being beach stones, soft stone and shale does not occur. A very short extension of the present road and a turn for vehicles would be necessary. Actual gravity feed would not be possible but the gradient would be slight enough for a man or horse to push or pull a loaded skip. The whole of the Eliza Cove Road will need repair, but of nothing like such an extensive basic nature as the others as it is the one road which up till now has not been exclusively used by Military. Repairs over a great part of the road will have to be done in any case as it is a "Peat carting" road. In a matter of two years the whole would have to be done as the only new peat banks are in this area and those along Surf Bay Road are petering out. I have discussed the matter with the Director of Agriculture and he informs me that the repair of the road to Eliza Cove would be "of immense help in his developments" in that area. I estimate a minimum of 20 years normal supply.

4. I therefore recommend that the source of stone be located at Eliza Cove and the following programme be put into effect.

(a) Erect crusher and staging and engine at Eliza Cove on fine days and start demolishing the quarry building for this purpose on wet days and/or to obtain sufficient materials for the new building at Eliza Cove.

(b) Before erection of crusher, repair Eliza Cove Road from the south end northwards under XIX 1 Roads, and in unsuitable weather continue pulling down quarry buildings and cleaning site in Dockyard indicated in red on (1) c. and erect artificial stone making plant in accordance with plans to be submitted and approved by you.

5. The following data is given on the financial side.

Cost of taking down carting and re-erecting staging, shed and crusher plant at Eliza Cove.	125. - . -;
Cost of erecting artificial stone plant with old materials from pulling down and finally cleaning quarry.	150. - . -.
	<hr style="width: 100%; border: 0.5px solid black;"/>
	<u>275. - . -.</u>

I submit this be charged against XIX 7 Minor Works in which there is a balance of £155 at date. There is also a credit to revenue from Military of £143. 3. 3. on account of the Quarry damage claim which I shall be glad to have your authority to accept.

Repairs to Eliza Cove Road and construction at the two gates of two 'passe Libre' would be a justifiable charge against P.W.R. XIX 1. in which there is a balance of £1166 at date, and the men will be more profitable employed on this than other roads at this time especially as the result of their work will eventually cheapen all other repairs.

The present cost of crushed stone delivered on site of works averages just over £1 per cu. yd. I estimate the cost when the new scheme is working at not more than 15/- a yard delivered at site of works.

6. I would be grateful if some early decision could be given as we are now approaching the time of year when it is difficult to find work especially work that does not involve the use of crushed stone.

Arthur Woodlat
Executive Engineer.



No. _____

MINUTE.

9th June, 1943.

~~TO:-~~ TO:-

THE COLONIAL SECRETARY.

Stanley, Falkland Islands.

~~FROM:-~~ From:-

The Executive Engineer,

Stanley.

I write in continuation of my minute of the 29th May, 1943.

2. The Officer in Charge of the R.E. detachment of the Imperial Troops called on me with regard to a source of stone supply for their use. I shewed him my minute to you on the matter and said I was not prepared to permit or recommend their use of Eliza Cove for this purpose in view of my proposals submitted to you. We discussed the matter and as a result I yesterday saw the Force Commander in an informal conference on the subject, as a result of this it was mutually agreed that

- (a) more could be achieved by cooperation than otherwise, in road repairs and maintenance particularly.
- (b) that such technical ability as I possess would be welcomed by the Force both in connection with roads and other matters.

3. In order to give effect to these decisions the following proposals were mutually agreed subject of course to confirmation on the part of Government.

- (a) That I be allowed to act as Honorary Technical Adviser in Engineering and allied matters.
- (b) That the Government crush at Eliza Cove all stone necessary for road repairs.
- (c) That the Imperial Troops supply labour as required to repair all roads but under my direct supervision.
- (d) That transport be supplied on a mutual basis and in accordance with demands on either R.A.S.C. or P.W.D. at any time, but in the main Army transport will be used.
- (e) The Government supply the Road roller and driver.

4. I trust I may be allowed to proceed and work on the verbal arrangements as above. As I see the situation it means for the Government that the roads will now definitely be decently repaired and much sooner than might have been and suitable and more profitable work (stone crushing) found for present labour, which has to be employed in any case.

The Army on the other hand will have the advantage of better roads for their transport with very occasionally small quantities of stone crushed free for their special use and some technical advice in cases of need.

5. I cannot at this stage safely forecast any saving on the £275 estimate given previously. If as I hope Military will assist with transport on the £125 item this might be reduced by £25 but our discussions in para 3 were based on the crusher being erected at Eliza Cove before other points come into operation. Since writing my minute of the 29th May the £155 balance under XIX 7 has been reduced to £60.

I do not anticipate any saving under XIX 1 Roads as all the men will be employed indirectly on roads, but although the erection of the crusher is really capital expenditure it might be paid for from Roads.

6. I would be grateful for early instructions.

Cust. Woodgate
Executive Engineer.

No. 71/43.

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

Copy to O.I.C., Treasury, MINUTE.

14th June, 19 43. (6)

From The Colonial Secretary,

To The Executive Engineer

STANLEY.

Stanley, Falkland Islands.

Red 4
With reference to your minute of the 9th June and previous correspondence, your proposals for stone-crushing, road maintenance and artificial stone-making are approved.

2. The acceptance of £143. 3. 3. compensation for the quarry is agreed to, and this sum should be credited to Revenue sub-head IX/8 Unforeseen.

3. Capital expenditure on opening up the Eliza Cove stone source should not exceed £125 and should be charged to XIX/1 Roads, a Special Warrant being applied for later on if necessary against which the above revenue credit of £143 will be, in fact, offset.

4. Capital expenditure on the block-making project should be limited to £155 and charged to XIX/7 Minor Works. This will overspend the provision by £100. A Special Warrant can be applied for towards the end of the year.

5. His Excellency desires me to draw your attention to the deplorable waste of paper involved by your three minutes under reference being typed double-spaced and on only one side of the paper.

K. G BRADLEY
Colonial Secretary.

No.

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

MINUTE.

7th February, 1944

(7)

From The Executive Engineer,
Public Works Dept.,
Stanley, Falkland Islands.

To The Hon. Colonial Secretary,
Stanley,
Falkland Islands.



As instructed by you last week I enclose copies of plans for the works now being executed in the Dockyard. As I explained then these vary from the original scheme which was to have had a flat roof over the block making shed. By raising the pitch of this roof however and strengthening the ceiling one can get very valuable additional storage space of which we are at present so short, with direct loading from the south end. All materials in so far as it is absolutely possible will be obtained from the demolition of the Quarry buildings.

Quite irrespective of the eventual great utility of the buildings for wet time work etc. it is the only employment I can find at the moment for my casual labourers. Even if numbers permitted I can do no further work on roads as both lorries are fully employed in bringing home the peat which is already somewhat behindhand.

I should be grateful for your ~~final~~ approval as early as convenient.

Austin Goodfellow
Executive Engineer.

MINUTE.

(9)

(It is requested that in any reference to this minute, the above Number and the date may be quoted).

From The Colonial Secretary,

Stanley, Falkland Islands.

10th February, 19 44.

To The Executive Engineer

STANLEY.

Red 7.
With reference to last minute of 7th February, His Excellency has approved the plans of the blackening shed and store as submitted. I return one copy.

2. It is noted that the increase of £45 on the original estimate of £155 represents the cost of the store, and the maximum expenditure now approved for this minor work is £200.

3. Plans of new buildings should be approved by His Excellency and, if necessary, the Board of Health, before work is begun.

K. G BRADLEY
Colonial Secretary.

No. 74/43.

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

MINUTE.

(10)

15th February, 1944.

To The Honourable,
The Colonial Secretary,
Stanley.

From The Executive Engineer,

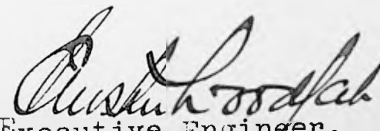
Stanley, Falkland Islands.

I am in receipt of your minute of the 10th under the above reference. The additional £45 will not necessarily cover the additional cost of the store.

It seems most unlikely that we shall get further military working parties or transport for road work and therefore all work thereon must cease at least until Government lorries can be released from peat carting (another one or two months according to weather conditions). The only work on which I can employ the general labour gang without "making work" of neither urgent nor beneficial nature, is the buildings in the Dockyard. In order to do this I am increasing the height of the concrete wall from 3' 6" to 8' 0" but reducing its thickness above 3' 6" to 6" from 9". This nevertheless will not be nearly as cheap as timber framing which it was proposed to start at the 3' 6" level but it keeps the gang employed and defers the use of carpenters for whom other useful work exists. Similarly, instead of demolishing the old foremans office and re-erecting later on the peat banks under Peat Supply XIX. 14, a site has been cleared in the Dockyard to which it will be transported bodily to form a new plumbers shop and thereby release the present plumbers shop for storage of iron piping now lying in the open.

I bring these matters to your notice to shew that this work is virtually a form of "relief work" and as such details have to be adapted to give the most employment for the longest time with the minimum of materials rather than an economic building scheme where labour and materials are adjusted to give best results at least cost.

Finally, I would again point out that with the completion of this work wet time for the labour gang and masons at least will disappear and one will always have useful and productive work upon which to employ the men in the manufacture of stocks of blocks, pavings, gate and fence posts, manholes and all the great number of other articles which can be cast in concrete and whose eventual upkeep, being in concrete, is negligible compared to wood or iron.


Executive Engineer.

No. _____

MINUTE.

(2)

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

23rd March, 1944

To The Honourable, _____

From The Executive Engineer, _____

The Colonial Secretary, _____

Stanley, Falkland Islands.

Stanley.

Artificial Stone Plant.

Red 10

As anticipated in my minute of 15. 2. 44. the present financial provision for this project will not be adequate. I explained to you during your inspection of the site on Monday last the scheme has increased very considerably since it was originally proposed. The addition of the store automatically introduced structural problems involving the use of much heavier timbers than were likely to be obtained from the demolition of the quarry, and now this pulling down has been completed, so much of the timber is in short lengths that a most disappointing quantity could be reused, for the scheme as submitted to you on 7. 2. 44.

2. To my mind both the blockmaking shed and store are essential for efficiency, but the latter could be dispensed with a certain amount of inconvenience if, as I understand, one or more "Hissen huts in situ" are likely to be available shortly. On this basis I have prepared an amended plan omitting the store, which reduces very considerably the new timber required and also has been so designed to use in short lengths of varying sizes.

3. I submit the following figures for comparative purposes of the estimated cost to complete the work as originally planned, (i.e. with the store) and the proposal now submitted.

Original Scheme:

Labour	3 carpenters for 6 weeks @ 12. 7. 6. p.w.	74. 5. -
	2 labourers for 4 weeks @ 6. 7. 6. p.w.	28. 10. -
		<u>102. 15. -</u>

Materials.

	New timber, glass, nails, felt etc. after allowing for reuse of materials as far as possible, not exceeding.	360. - -
		<u>459. 15. -</u>

Present Scheme:

Labour:	3 carpenters for 4 weeks @ 12. 7. 6. p.w.	49. 10. -
	2 labourers for 2 weeks @ 6. 7. 6. p.w.	12. 15. -
		<u>62. 5. -</u>

Materials:

too high?

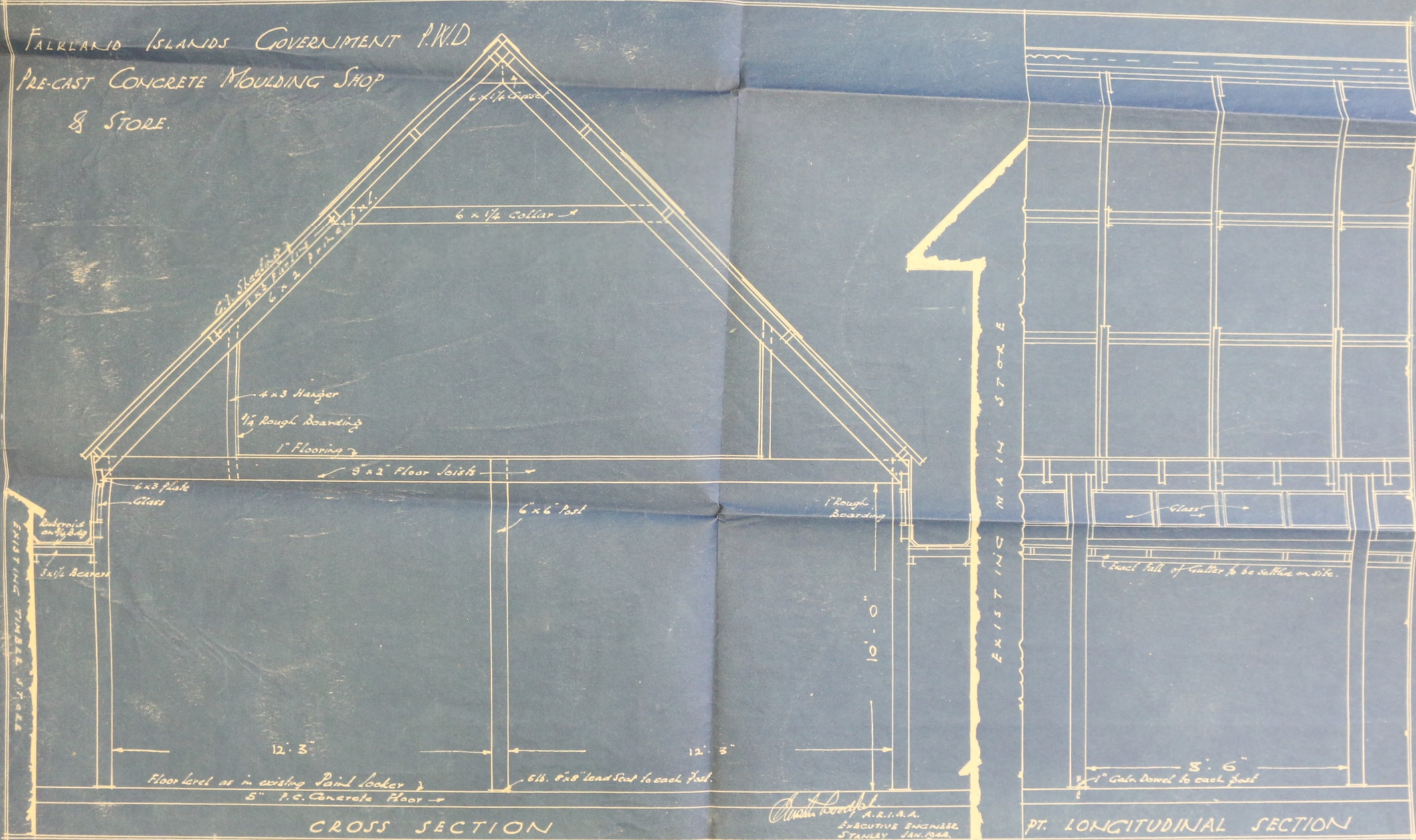
	New timber, glass, nails, felt after allowing for fullest possible reuse of old materials not exceeding	95. - -
		<u>157. 5. -</u>

In both cases the cost of materials may with care be reduced but until work is actually started and the old timber sorted and examined the final amount usable must be hypothetical.

4. All work has been stopped at the moment as the present F.R. is virtually exhausted. As you know I am anxious to get the work completed whichever scheme is finally adopted, in order to have a place for the labour gang to work on wet days, (the expenditure from the Wet Time vote head is already double that for the corresponding period last year.) I would therefore be most grateful for an early decision.

Quentin Woodgate
Executive Engineer.

FARLELAND ISLANDS GOVERNMENT P.W.D.
 PRE-CAST CONCRETE MOULDING SHOP
 8 STORE.



CROSS SECTION

PT. LONGITUDINAL SECTION

Arthur Dondel
 A.R.I.A.A.
 EXECUTIVE ENGINEER
 STANLEY JAN. 1948.

Floor level as in existing Paint Locker
 5" P.C. Concrete Floor

Shed Tall of Gutter to be set on site.

FALKLAND IS. GOVERNMENT. P. W. D.

PRE-CAST CONCRETE MOULDING SHOP & STORE.

E. G. T. OFFICE

LIME AND CEMENT STORE

PAINTER'S SHOP

RAMP

CRUSHED METAL IN ROAD

MAIN STORE

TIMBER STORE

FIRST FLOOR PLAN.

EXTENSION TO MAIN STORE

GROUND FLOOR PLAN

GARAGE

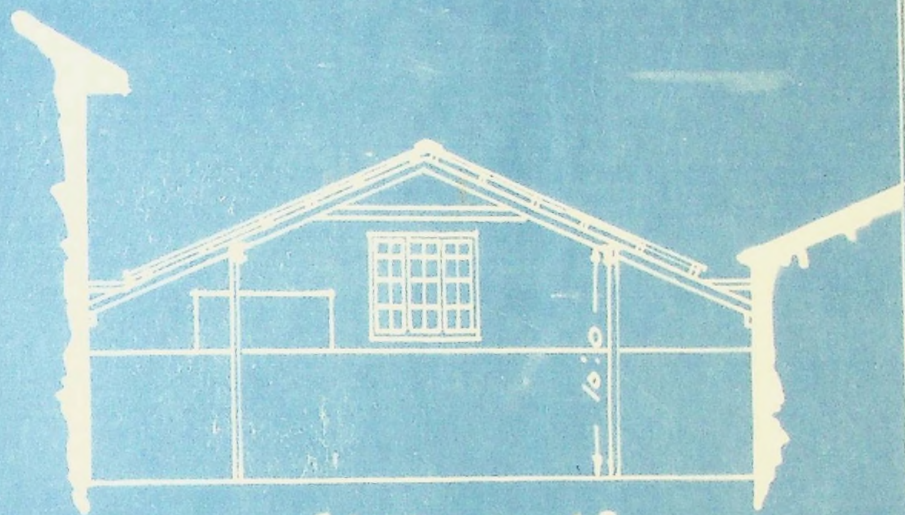


NORTH ELEVATION.

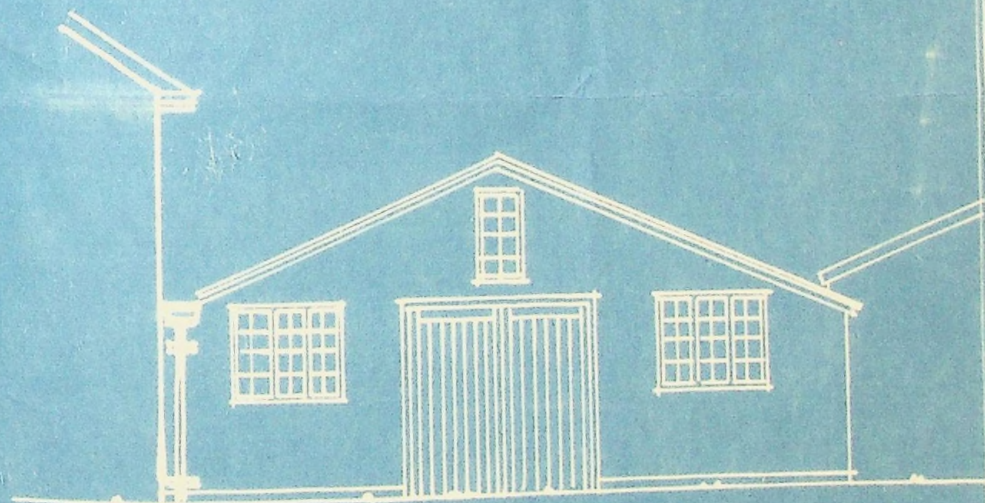
Arthur L. Campbell.
A.S.L.A.A.
EXECUTIVE ENGINEER.
STANLEY,
Jan. 1944

SCALE: EIGHT FEET TO ONE INCH.

E. & T. SEPT.



SECTION AB.



NORTH ELEVATION.

FALKLAND IS. GOVERNMENT P.W.D.

AMENDED PLAN

BLOCKMAKING SHED.

Just Goodpl.
A.R.I.B.A.

E.E.

MAR. 1944

SCALE: 8.0" TO 1"

(It is requested that, in any reference to this minute the above Number and the date may be quoted.)

MINUTE.

15th. August 1946

~~25~~
16

From The Executive Engineer

To The Honourable
The Colonial Secretary

Stanley, Falkland Islands.

Repair of Roads in Stanley.

Replying to your minute/ of the 10th. inst. under the above reference.

Para.2. (i) The men are not on piece work but are under the charge of a reliable foreman on the spot.

(ii) As the work is highly suitable for some of the less physically fit men and boys they are thus employed and in these circumstances the out-put is satisfactory. The average output is twelve yards cube per diem per crusher.

(iii) The cost of the wear and tear of the road is not included in the calculations of cost. It is quite incorrect to say this road has little use other than for the stone crushing plant; it is a vital link in the access to peat banks, both private and Government, it is, (or was), extensively used by the Agricultural Department for access to their experimental paddocks at Eliza Cove, (red 3 para (c) refers), and haulage contractors win stone on the beach at Eliza Cove for private usage.

2. The decision was arrived at to abolish quarrying, having in mind (a) The provision under a court order, whereby a qualified blaster and assistant must be maintained at all times at a high rate of pay and whether blasting or not.
- (b) The small quantities produced after each shot and time lost by other men while tamping and blasting was in progress.
- (c) The excessively high wear and tear on boring tools.
- (d) The fact that the Construction Company Royal Engineers having tried out the Quarry with every mechanical aid in the way of pneumatic drills and every variety of

explosive/

No. 74/43.

MINUTE.

14

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

CONFIDENTIAL.

29th March, 19 44.

From The Colonial Secretary.

To The Executive Engineer,

STANLEY.

Stanley, Falkland Islands.

Rec'd. With reference to your Minute of the 23rd March, His Excellency has approved of the revised plan for the block-making shed as submitted. A Nissen hut will be procured at Snake Hill for extra storage space if prices prove to be reasonable.

2. Further expenditure is authorized up to £157., but in view of the quantity of suitable material available from the quarry, it is hoped that your estimate of £95 for materials will prove to be excessive. Every possible endeavour must be made to show a saving on these figures.

3. His Excellency was most reluctant to agree to this excess expenditure. He points out that inefficiency of labour should certainly have been allowed for in your original estimate and that if a proper examination of the quarry building had been carried out before its demolition, the condition of the timber would have been seen and proper provision made.

4. Please ensure that all future estimates submitted are accurate and in as great detail as possible.

Colonial Secretary.

No. _____

MINUTE.

(It is requested that, in any reference to this minute the above Number and the date may be quoted.)

10th August, 19 46. (15)

From The Colonial Secretary,

To The Executive Engineer,

STANLEY.

Stanley, Falkland Islands.

Repair of Roads in Stanley.

I am directed by the Acting Governor to refer to your Minute of the 15th of July, 1946, and to say that while His Excellency is aware that you consider that gaining and crushing stone at Eliza Cove is more economical than using the quarry, some evidence would be welcome to support that view.

2. In particular, I am to enquire :-

- (i) whether the men so employed are on piece-work, having regard to the isolated situation of their work and to the fact that any Supervisor can be seen coming from a considerable distance:
- (ii) whether you consider the output satisfactory and what it amounts to:
- (iii) whether all costs, including wear and tear of a road that has little use except to connect with Eliza Cove, are included in your calculations.

... ..

EXTRACT FROM RED 18 IN M.P. 129/46 (PUBLIC RELATIONS COMMITTEE).

57
~~5~~

.....

The Committee also strongly suggests the reopening of the Magazine Valley as a quarry for road metal in preference to any other place and that the grading implement be attached to the stone-crusher and graded metal used as is the general practice in road-making. ;.....

(Original filed in 129/46 "Public Relation Cttee.")

(Copy filed in 199/39 "Repair of Roads etc.")

Regarding the question of road repairs, the meeting after considerable discussion passed the following motion:-

" The Public Relations Committee recommends that the Government cease digging up, and relaying roads with clay and large gauge stone as is being done at present. The Committee considers that the piece of road in Leury Street, which was laid in a similar manner, to be a poor sample of road surfacing. The idea of an experimental length of water-bound Macadam road is still strongly favoured by the Committee. A water-bound Macadam road, to quote Mr Bernard Knight, D.Sc., Ph.D., M.Inst.C.E., F.S.I., F.R.San.I., (formerly Assistant Lecturer at University College, London, on Municipal Engineering) is laid down as follows:- 'Angular but not flakey, broken stone of 2 to 2½ inch gauge is spread uniformly over the foundations to a depth of about 3½ inches. This is rolled dry until it is friction-tight, and the surface is even. A thin coat of blinding material is then added. This consists of a smaller gauge stone, say from ½ to ¾ inch, and is usually of softer material than the larger gauge stone. This layer is swept and then steam rolled, at the same time water is sprayed over the surface. This forms a slurry, which is swept forward in front of the roller towards the unfinished part. There must be no superfluous slurry or a muddy road will result. After rolling is finished the road is allowed to dry out.' This, the Committee states, is the way Stanley roads were originally laid. Until such time as this has had a fair trial, or it is possible to undertake thorough road repairs, the Committee recommends that some tar be imported (preferably as soon as possible) to be used along with small metal to fill in the pot holes in the roads. The Committee is of the opinion that there should really be no need to experiment with road making in the Colony, as stone is plentiful and convenient to obtain. The Committee would be grateful for information on what practical knowledge the Executive Engineer has on quarrying and road building."

X/

199/39.

Copy to E. E. for inf. and copies filed in 74/43 (23)
"Reorganisation of the System of Stone Collection &
and 129/46 "P. R. Committee".

25th September, 46.

Sir,

With reference to the suggestion that the quarry in the Magasine Valley should be re-opened, I am directed by the Acting Governor to enquire whether your Committee are fully satisfied that public safety and apprehension will not be jeopardised if it were decided to re-open the quarry.

I am,

Sir,

Your obedient servant,

(Sgd.) L. W. ALDRIDGE

for Colonial Secretary.

The Chairman,
Public Relations Committee,
STANLEY.

No.

(It is requested that, in any reference to this minute the above Number and the date may be quoted.)



MINUTE.

2nd October, 1946.

From The Executive Engineer,
Stanley, Falkland Islands.

To The Honourable,
The Colonial Secretary,
Stanley.

I have collected the following details of cost of winning and crushing stone by contract pre war in the Quarry and present system from Eliza Cove. The figures are submitted for record rather than comparison, in fact to compare them would be unfair for the following reasons:-

- (a) The pre war price was based on labour at 1/- per hour for a nine hour day and was the result of a small but very hardworking picked gang working as hard as was humanly possible.
- (b) To revert to quarrying would mean that the elderly men now suitably employed at Eliza Cove would want some alternative work found for them, were this possible.
- (c) The output from the quarry would not meet present demands.

2. Quarrying contract work pre war;

batch
Average ~~weekly~~ output 95 skips.
One skip was taken to equal 2/3 yards cubic.
Average weekly output therefore was 62 cubic yards.
Costs. Contract price per yard 8/9d including blasting and crushing.

62 yards at 8/9	=	27.	2.	6.
Engineman 9 hours at 1/2	=		12.	3.
1 " " 1/9	=			
Explosive and fuse	=	3.	1.	4.
Total cost 62 yards		30.	16.	1.
Cost per yard <u>at the Quarry.</u>		<u>9/11d.</u>		

Cost of wear and tear on drills and tools including smithy coal is not included. At 8/9d men reconditioned their own tools.

EXCERPT FROM MINUTES OF P. R. C. MEETING WITH HIS EXCELLENCY THE ACTING GOVERNOR OF 23. 9. 46 (Original filed in 129/46 "P. R. Committee")

+++++

... ..

The meeting then turned to the subject of the Magazine Valley Quarrey. Mr. Bonner (H.J. Sr.) and Mr. Petterssen (J.) gave their opinion on the matter, and particulars of how it worked before, and both definitely favoured the idea of re-opening, and said that all types of stone were to be quarried. His Excellency said that apart from the problem of setting it in operation again, there was the problem of safety to the dwellers close by. The Committee thought the danger part could be overcome as it had been in the past days. His Excellency promised to go into the matter right away, and would be grateful if Mr. Bonner and Mr. Pettersson would give advice if requested. This they agreed to do.

EXCERPT FROM MINUTE FROM EXECUTIVE ENGINEER OF 2. 10. 46
(Original filed in 199/39 "Repair of Roads etc.")

+++++

... ..

I took the opportunity of ascertaining all the information I could about the past history of the quarry, as this point, I feel is highly relevant. The main reason why the quarry fell into disuse by the Government was owing to the fact that while the stone may be excellent for road construction it is much too dirty for concrete work containing as it does a very high percentage of clay. This point may also quite easily have had a strong influence on the Royal Engineers in taking their decision to give up quarrying. I understand that they had with them no trained quarryman, at least to put in charge of the work, and they did in fact request the services of a man from this Department and he quite rightly advised them that before they commenced operations in earnest it was essential that the debris at the base of the quarry face must be cleared away. The C. R. E. was not disposed to do this and eventually abandoned the project as in his opinion his minimum requirements of forty tons per day could not be met from the quarry. I gave this information in part correction of paragraph 2 (d) of my Minute dated 15th August, 1946.

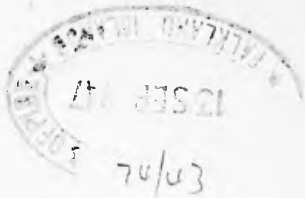
Rec 16.

5. Other than Ross Road our only use for crushed stone at this stage is for concrete work, for which purpose the stone from the quarry is unsuitable. To start the quarry again would entail an expenditure of £200 - 250 if stone was to be produced in quantity, and I feel that this is not justified for the comparatively small amount that we shall need for Ross Road, on the assumption that the country roads will be supplied from nearer sources.

... ..

No. _____

(It is requested that, in any reference to this minute the above Number and the date may be quoted.)



MINUTE.

34

13th September, 19 47.

From O.I/C.Public Works,

Stanley, Falkland Islands.

To The Honourable,
The Colonial Secretary,
Stanley.

Re stone crushing in general, could inquiries be made please if there is any modern method of protecting men from the dust.

D. Lees.

O.i/c. Public Works.

16th October,

47.

Gentlemen,

I am directed by the Governor to enquire whether you are in a position to advise this Government of any modern appliances for protecting from dust the respiratory organs of men working with cement and kindred dusty substances.

2. The type of mask now in use consists of a double sheet of perforated aluminium or plastic material with a padding of cotton wool sandwiched between. The mask (or respirator) is shaped to cover nose and mouth and is held in position by loops of elastic cord. But it is unpopular because the breath causes the dust to cake and thus clog the respirator.

3. 48 appliances would be required, together with 60 pairs of goggles.

I am,

Gentlemen,
Your obedient servant,

(Sgd.) A. S. MATHEWS

Colonial Secretary.

The Crown Agents for the Colonies,
4, Millbank, Westminster,
LONDON, S. W. 1.

WH.