(1) Number of pages 34

(2) Date of repair 5-1-87

(3) Initials of the Referencer [illegible]

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

G.O. No. / B.P. No.	1970-W	Press. / Mis.
Dated	29-7-1879	~~197~~

R-R -

Not to be folded or roughly handled.

Archives 1—10,006—19-4-79.

1970/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

29th July 1879, No. 1,970 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 185. From Major H. M. VIBART, R.E., Acting Superintending Engineer, Third Circle, to the Chief Engineer, Public Works Department, dated 12th July 1879, No. 4,102.

Five plans.
Two specifications.
Five estimates.

WITH reference to G.O., No. 344 W, dated 1st February 1879, I have the honor to submit for your selection and sanction three designs for supporting the waterpipe at Elephant Gate bridge.

Estimate, Rupees 5,365.
Total road and foot way 27'.

2. As regards the design supplied by the Municipal Engineer, Mr. Jones, I would observe that, in my opinion, there is no urgent necessity to widen the bridge in the manner proposed, and that under present financial circumstances it would not be desirable to expend such a large sum on the work.

Estimate, Rupees 600.

3. The design furnished by the Executive Engineer, Buckingham Canal, is, I think, open to objection on the score of weakening the arch even if the longitudinal cut was executed with the greatest care. There is also the further objection that the bridge would have to be closed to traffic during the execution of the work.

Estimate, Rupees 625.

4. The design by my Assistant, Mr. Ussher, for supporting the pipe from the existing stone brackets meets, in my opinion, all the requirements of the case. During the execution of the work one half of the bridge could be kept open to traffic under the direction of Police constables.

No. 186. ORDER THEREON, 29th July 1879, No. 1,970 W.

WITH this letter the Superintending Engineer submits alternative designs for supporting the municipal 24" main in connection with the Elephant Gate bridge.

2. The first design, the estimate for carrying out which amounts to Rupees 5,365, was prepared by the Executive Engineer of the Municipality, on the supposition that the cost of the work would be borne by Government. In the present state of the finances this estimate, which provides not only for supporting the pipe but also for widening the existing bridge, cannot be considered.

3. The second design, prepared by Mr. O'Shaughnessy, provides for laying the pipe in a deep trench cut along the centre of the bridge, and is objected to by the Acting Superintending Engineer on the ground that it would weaken the arch.

4. The third design, which is understood to have been prepared by Mr. Ussher, Assistant to the Superintending Engineer, provides for suspending the main to the brackets by which the road side was formerly widened; these brackets being fastened to the masonry of the bridge by wrought-iron bolts.

5. This design is estimated to cost Rupees 625, and is, with some modification, recommended by the Chief Engineer for adoption.

6. The work will cost less than Rupees 700, and is sanctioned for immediate execution, at the charge of the Municipality.

(True Extract.)

Major, R.E.,
Ag. Under Secy. to Govt., P.W.D.

To the Superintending Engineer, Third Circle.
" Financial Department.
" Examiner of Public Works Accounts.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1879) Madras

PUBLIC WORKS.

To

The SUPERINTENDING ENGINEER,
THIRD CIRCLE,
&c. &c. &c.

Dated July 29th.

Issued

Recd. Encl.

G. O., 29th July 1879, No. 1,970 W.

JULY.

Nos. 185-186.

Supporting the municipal 24" main in connection with the Elephant Gate bridge.—Sanctions for immediate execution, at the charge of the Madras Municipality, the third design for —.

No. 4102 3rd Circle Sup. Engr's Office
d/ 12th July 1879.
Despd 14th "

1970/3

From
The Superintending Engineer
3rd Circle.

To
The Chief Engineer
Public Works Department.

Enclosures. 12

5. Plans.
2. Specifications
5. Estimates.

Sir,

With reference to G. O. No. 344 W dated 1st February 1879 I have the honor to submit for your selection and sanction three designs for supporting the Water-pipe at Elephant Gate Bridge.

Estimate Rs 5365
Total Road & Foot way 27'

2. As regards the design supplied by the Municipal Engineer Mr Jones I would observe that in my opinion there is no urgent necessity to widen the bridge in the manner proposed and that under present Financial circumstances it would not be desirable to expend such a large sum on the work.

Estimate 600 Rs

3. The design furnished by the Executive Engineer Buckingham Canal is I think open to objection on the score of weakening the arch even if the longitudinal cut was executed with the greatest

care. There is also the further objection that the Bridge would have to be closed to traffic during the execution of the work.

4. The design by my Assistant Mr. Ussher for supporting the pipe from the existing stone brackets meets, in my opinion, all the requirements of the case. During the execution of the work one half of the bridge could be kept open to traffic under the direction of police constables.

Estimate
Rs 625

I have the honor to be
Sir

Your most obedient servant

[illegible] Nisbet Major RE
Ag Supg Engineer 3rd Circle.

4

Govt No. [illegible] W - 1-2-79

1879.

From the Supdt. Engr. &c.

Pro. 9 27-7-79 No. 1970-

No. 4102.

Dated 12th
Desp 14th } July/79.
Recd

C.E. 12 -
[illegible]

Elephant Gate Bridge
— Forwards for sanction Plans Estimates &c. for supporting water pipe at Elephant Gate Bridge —

185

Cir 18-7-79. Retd 24-7-79

Dely 15-7- [illegible]

1920/

1920/3

Government House.
19th June. 1879.

Dear Colonel Sankey,

I am directed by His Grace the Governor to ask what is being settled about the objectionable supports of the piping at the Elephant Gate Bridge, Madras, which obstruct the navigation of the Canal, since

Gr. No 844 W-1-2-79

1879.

His Grace understands that the Municipality have not yet removed them.

I remain

Yours very truly,

J. Yerke Rosary

Gaw (Bhag

185

Cir 18.7.79. Retd 24.7.79.

To Daty 15-9-

G.O. No. 244 W. - 1-2-79

1879.

Papers

D.W

Please see to
this & endorse to
file with Office
note for his Grace's
information

13/6/79

Gate Bridge

185

Cir 15-7-79. Retd 24-7-79

To Dfty 15-7-

1920/7

GOVT. OF MADRAS. } 187 . { P. W. DEPT.

SECRETARY.

Fort St. George, 187

OFFICE NOTE

OF 187

To W.

Enclosed are three proof designs for the support of the Municipal 24" main in connection with the Elephant Gate Bridge.

The first design is prepared by the Engineer to the Madras Municipality and provides not only for supporting the pipe, but also for adding a footpath four feet wide to the existing

To Dfty 15-7

bridge. The estimate amounts to Rs 5065 –

The second design is prepared by Mr O'Shaughnessy, and provides for laying the pipe in a deep trench cut along the centre of the bridge; its cost is estimated at Rs 600 –

The third design is stated to have been prepared by Mr Walker, Assistant to the Superintending Engineer, and provides for suspending the pipe to the brackets by which the roadway was formerly widened, these brackets being fastened to the masonry of the bridge

To Daty 15-7-

1970/8

by wrought iron bolts –

The cost of this design is estimated at Rs 625 –

The first design is out of the question, and was only prepared on the supposition that the cost would be borne by Government – If the Municipality are prepared to pay Rs 5,000 for widening the bridge of course they can do so, but this has nothing whatever to do with the matter of the water pipe –

The objections to the second design are stated by the S. E. and certainly appear to outweigh the small difference in cost between it and the thrust—

The third design is the best, and if it is entirely Mr Walker's, he deserves credit for its production—

The weight of the pipe when full will not exceed the 400 lb per foot run, so that the supporting links have ample strength and there is no risk of the pipes' being strained by its own weight— The supports should however be put close to the joints in the pipe—

No lateral staying of any sort is provided, and it is thought that something of this kind is necessary, to prevent any risk of leakage owing to lateral movement, whether produced by wind, or by the vibration due to the traffic on the bridge—

1920/9

This can be easily given by cast iron brackets of the form shown in pencil on the plan— These will not cost more than Rs 10 or 12 each; and with these additions the cost of the work will be under Rs 700—

A screw adjustment should also be provided for accurately adjusting the level of the pipe, as sketched—

It would be as well that formal orders should be issued on this subject—

15.7

DW

1970/20

GOVT. OF MADRAS. } 1879 { P. W. DEPT.

SECRETARY.

Fort St. George, 26th June 1879.

OFFICE NOTE

To

The Supdg Engr Third Circle

OF 187

Please see Mr O'Shaughnessy's note, and kindly state what has been done in the matter referred to in para 1 of G.O. No. 344 W dated 1st Feby 1879.

D J W.

30 6

[illegible]

In my previous note
I stated what had
been done in the matter.
As soon as the third
design is complete,
all three designs will
be sent to the Chief
Engr H.W.S.
1/7/79. A.S.E.

To W

A note on the Sub-
ject will be submitted
on receipt of complete
information from the
S.E.

S Dy W

Ind
1.7

To Duty 8-7

To Duty 15-7

Sub No 999 1-7-79 No 1970 W

OF 187

No. 107

1970/11

GOVT. OF MADRAS. 1879. P. W. DEPT.

Under SECRETARY.

Fort St. George, 23rd June 1879.

OFFICE NOTE

To

The Supg Engineer
Third Circle

These papers were sent
to the Executive Engineer
Buckingham Canal Division
through you with Chief
Engineer's No 575 dated
8th February 1879. Kindly
return the file, and let
me know how matters
now stand.

S
Dy W

Ind
21.6

A design has been sent in by Mr. Jones Municipal Engineer — a second by Mr. O'Shaughnessy — & a third is now being prepared in this office.

Ag. S.E.

24/6/79

The file was, it appears forwarded to Mr. O'Shaughnessy & has not been returned by him

D. W.

Mr O'Shaughnessy, who is at Ooty, will no doubt be able to give you the information you require

Dy W

25.6

To Mr. O'S for early attention

~~To Ooty 25-6~~ 27/6/79

To Ooty 15-7-

Chief Engineer's No. 575 dated 8th February 1879 refers to the proposed Locks at the Hospital bridge and at the head of the Sadras Canal on the right bank of the Adyar, The report and plans called for on this subject are not ready - They shall be prepared and submitted as soon as possible,

The matter now in question is quite different, and was the subject of a separate G.O. which I have not with me - It refers to the Obstructions to traffic caused by the Jones water pipe at Elephant Gate bridge and to the S.I. Ry bridge at the Genl. Hospital - designs for supporting water pipe at Elephant Gate bridge, which is what his Excellency referred to, were submitted to S.E. about 2 months ago - The harbour Engineer had the direction of alterations of S.I. Ry bridge,

27/6-79

1970/12

D. W.

His Grace the Governor has instructed me to take measures for the removal of the Obstruction at the Charge of the Municipality

This I presume was the purport of para 1 G.O. of 1st Feb. 79 No 344 W

Please direct the requisite action

4/7/79

T. O.

S.E.D

Please send up the designs as soon as you conveniently can—

7-7

The designs will be submitted in a week or ten days at latest

C.L.
for Supt Engr
8/7/79.

1470/13

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following:—

Draft for Approval

From the Supt Engr, 3rd Circle
No. 4102 d/12th July/79.

With this letter the Supt Engineer submits alternative designs for supporting the Municipal 24" main in connection with the Elephant gate bridge.

The first design, the estimate for carrying out which amounts to Rs: 5365, was prepared by the Executive Engineer of the Municipality, on the supposition that the cost of the work would be borne by Government. In the present state of the finances

(Isn't like (E^{ts} with the form of clip which seems weak for the weight of the right angles under the flow which do not appear necessary. the joints might be

These [illegible] pipe [illegible] got [illegible]

Cir 18.7.79
15.7.79
[illegible] 24.7.79.

this estimate, which provides not only for supporting the pipe but also for widening the existing bridge, cannot be considered.

The second design, prepared by Mr O'Shaughnessy, provides for laying the pipe in a deep trench cut along the centre of the bridge, and is objected to by the Acting Supdg Engineer on the ground that it would weakens the arch. in this objection the Government concur.

The third design which is stated to have been prepared by Mr Usher, Assistant to the Supdg. Engineer, provides for suspending the main to the brackets by which the roadside was formerly widened. these brackets being suspended from ~~fastened to the~~ ~~the~~ stone cornice ~~masonry~~ of the bridge by wrought iron bolts.

1929/14

recommendg of the C.E. with some modification

This shd not form part of G.O. – but recommendg of C.E. on the plan

[illegible] This design is estimated to cost Rs 625, and is [in] the opinion of His Grace in Council, the most suitable] for adoption.

[The supports should, however, be put close to the joints in the pipe; and, to prevent any risk of leakage owing to lateral movement, whether produced by wind or by the vibration due to the traffic on the bridge, it appears necessary that lateral staying of some sort should be provided. Cast iron brackets of the form shown in pencil on the plan should therefore be fixed.

A double screw joint ~~screw arrangement~~ for accurately adjusting the level of the pipe should also be provided in accordance with the sketch on the design.

With these additions the work will [illegible] cost less than Rs: 700, and is sanctioned for immediate execution, at the charge of the Municipality.

7/7/79

A W

Fair order amending the Ch Engr instructions can be issued by the D.P.W.

21/7/79

Faired 23/7

G. by W. 24/7

G.O. No 1970 W
29/7/79

S.E. III Circle
Fin. dept
L.S.V.A.

1970
13

Civil Works

No 1970 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT,

Under date the 29th July 1879

Read the following:—

From, The Supg. Engr. 3d Circle (H.E. No 4102 d/ 12th July/79.)

With this letter the Superintending Engineer submits alternative designs for supporting the Municipal 24in main in connection with the Elephant gate bridge.

2. The first design, the estimate for carrying out which amounts to Rs 5,365, was prepared by the Executive Engineer of the Municipality, on the supposition that the

cost of the work would be borne by Government. In the present state of the finances this estimate, which provides not only for supporting the pipe but also for widening the existing bridge, cannot be considered.

3. The second design, prepared by Mr. O'Shaughnessy, provides for laying the pipe in a deep trench cut along the centre of the bridge, and is objected to by the Acting Supg: Engineer on the ground that it would weaken the arch.

4 The third design, which is understood to ~~stated to~~ have been

* Se

1920/16

prepared by Mr. Hecker, Assistant to the Supg: Engineer, provides for suspending the main to the brackets by which the road side was formerly widened: these brackets being fastened to ~~suspended from~~ the masonry ~~stone cornice~~ of the bridge by wrought iron bolts.

5. This design is estimated to cost Rs 625, and is, with some modification, recommended by the Chief Engineer for adoption.

6. The work will cost less than Rs 700, and is sanctioned for immediate execution, at the charge of the Municipality.

41/4

t 11-8-79 with P. 10 Encls

Sh. III Circle 16

Finl. Departt.

Exr. P. W. Accts. } with estd.

Despatched 21

23/7/79

P.W. Desk 6-8-79 29-7-79

× Sent to C 4-8-79

Cw 5300

Govt. of (1879) Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Recd.

G. O. 29 July 1879, No. 1770 W

Nos. 185 - 186

Supporting the Municipal 24" main in connection with the Elephant Gate bridge

Sanctions for immediate execution at the charge of the Madras Municipality, the third design for —.