(1) பக்கங்களின் எண்ணிக்கை 30

(2) புதுக்கித் திருப்பிய நாள் 2-9-12.88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

103

தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 134

அச்சகம்
பலவகை

நாள் : 18-1-1889. 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

15 Sheets
3+12.

ஆணை: எண்-1—18,098—15-6-87.

134
1

18th January 1889, No. 134 W., Public Works.

B4/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following paper:—

From the Inspector-General of Military Works, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 4th January 1889, No. 26-B.

I have the honor to forward 85 copies of the revised standard plan of gymnastic apparatus.

Order—dated 18th January 1889, No. 134 W., Public Works.

Communicated to Superintending Engineers and to the Military Department.

(True Extract.)

Captain, R.E.,
Under-Secy. to Govt., P.W.D.

To Superintending Engineers, }
To the Military Department, } with copies of the plan.

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated January, 18th.

Read.

Encl.

G.O., 18th Jan. 1889, No. 134 W.

JANUARY.

Gymnastic Apparatus

Revised standard plan of —, communicated to Superintending Engineers and to the Military Department.

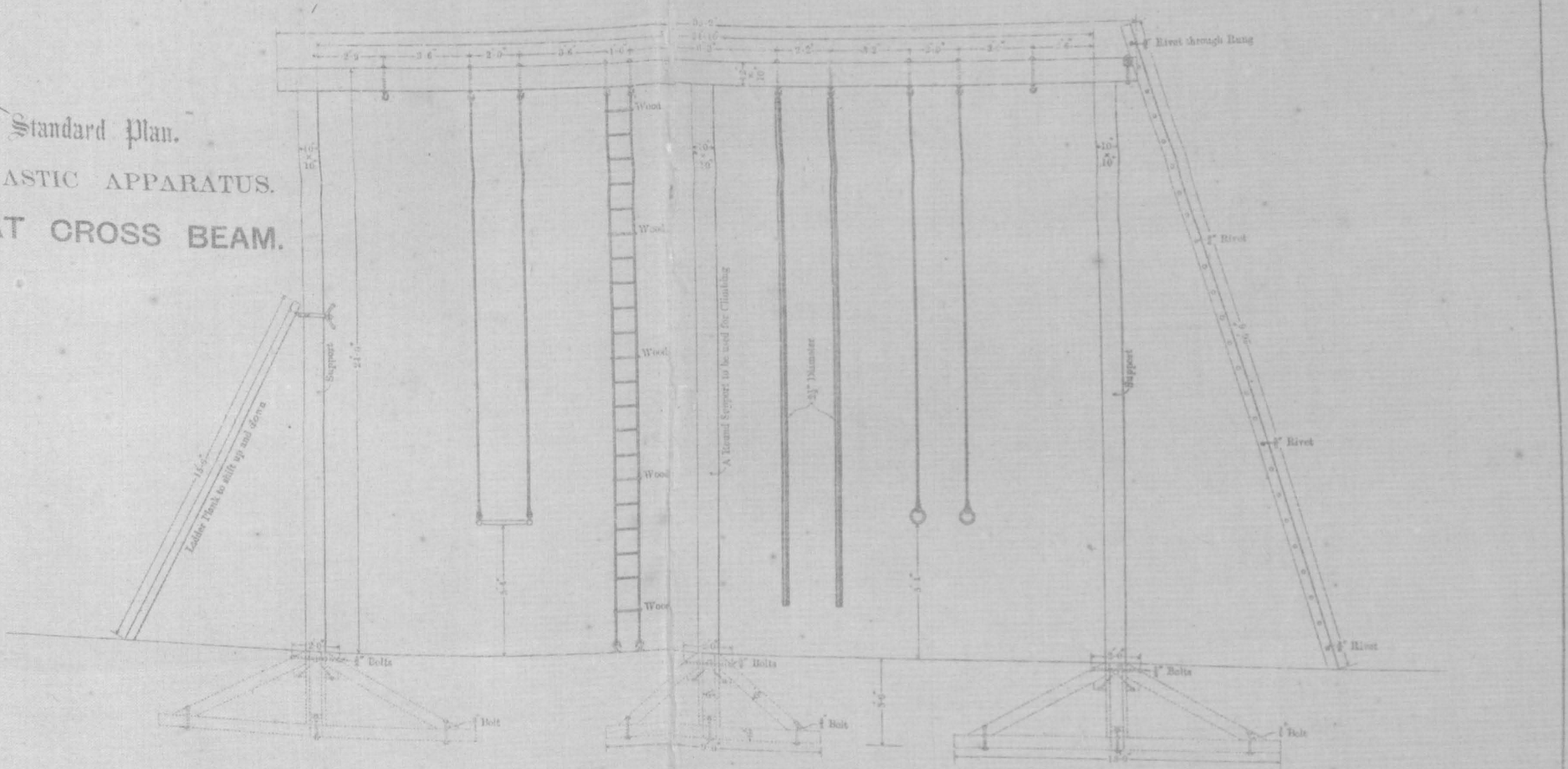
134/4 134/2

PLATE I.

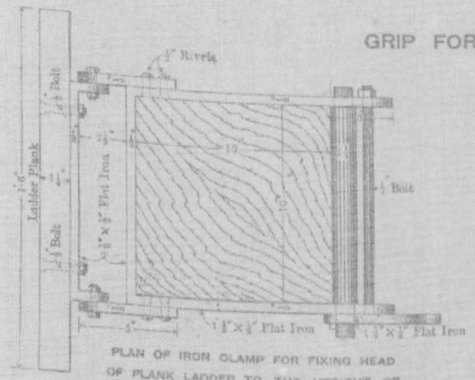
Standard Plan.

GYMNASTIC APPARATUS.

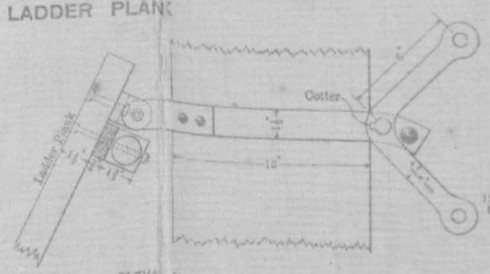
GREAT CROSS BEAM.



GRIP FOR LADDER PLANK



PLAN OF IRON CLAMP FOR FIXING HEAD OF PLANK LADDER TO THE UPRIGHT OF GREAT CROSS BEAM



ELEVATION SHEWING PLANK LADDER ATTACHED TO UPRIGHT OF GREAT CROSS BEAM BY MEANS OF IRON CLAMP

Scales.

For Great Cross Beam ⅛ Inch = 1 Foot

For Details ½ Full size

B. Sanford
Colonel, R.E.
Inspector General of Military Works

PHOTOLITHOGRAPHED AT THE CENTRE OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1868.

134/5 134/3

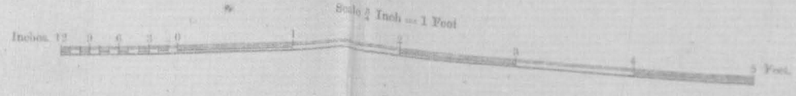
Standard Plan.

GYMNASTIC APPARATUS.

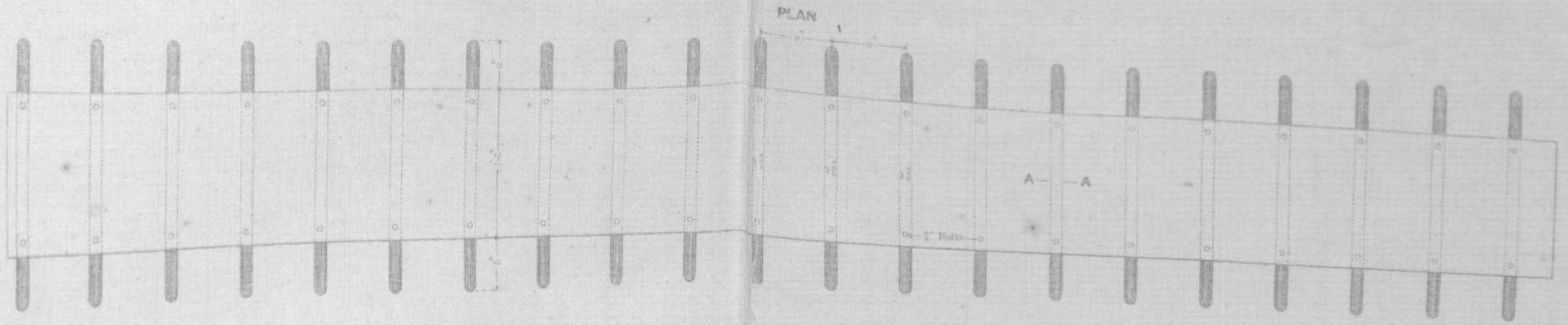
PLATE II.

LADDER PLANK.

Scale 2 Inch = 1 Foot



PLAN

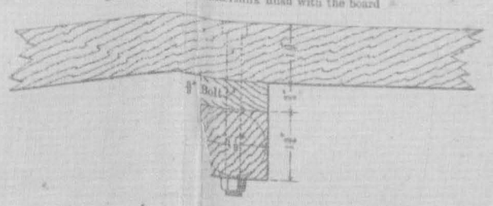


SIDE ELEVATION.

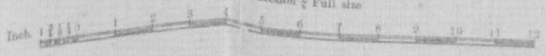


SECTION THROUGH A. A

Bolt heads to be countersunk flush with the board



Scale for Section ½ Full size



G. Bransford
Colonel, R.E.,
Inspector General of Military Works.

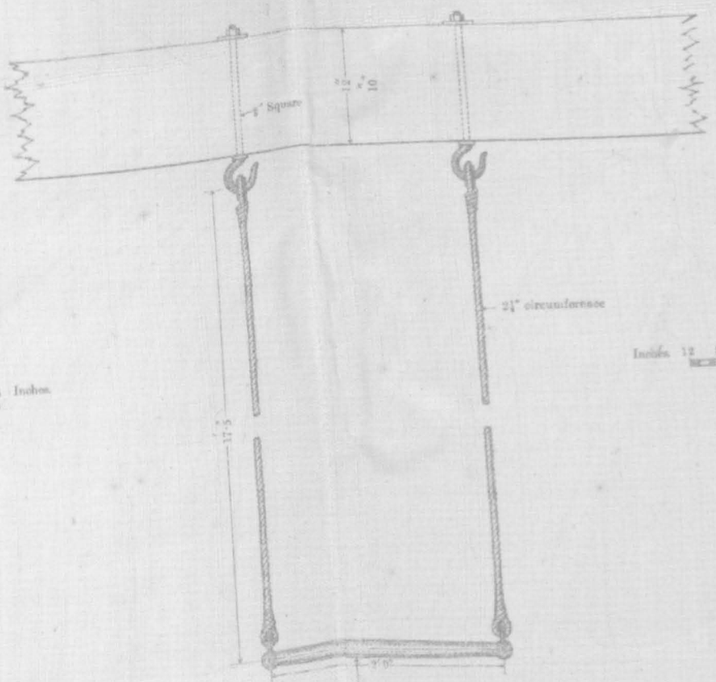
PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1880.

13H
13H/4

Standard Plan.

GYMNASTIC APPARATUS

TRAPEZE.



Scale for enlarged Trapeze bar ½ Full size

Inch. 1 ¾ ½ ¼ 0 1 2 3 4 Inches.

Scale for Trapeze ½ Inch. = 1 Foot

Inches. 12 9 6 3 0 1 2 3 Feet

SECTION THROUGH THIMBLE AND LOOP

ORDINARY TRAPEZE BAR.

ELEVATION AND SECTION ON A. B

G. Sanford
Colonel, R.E.,
Inspector General of Military Works.

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134/7 135/5

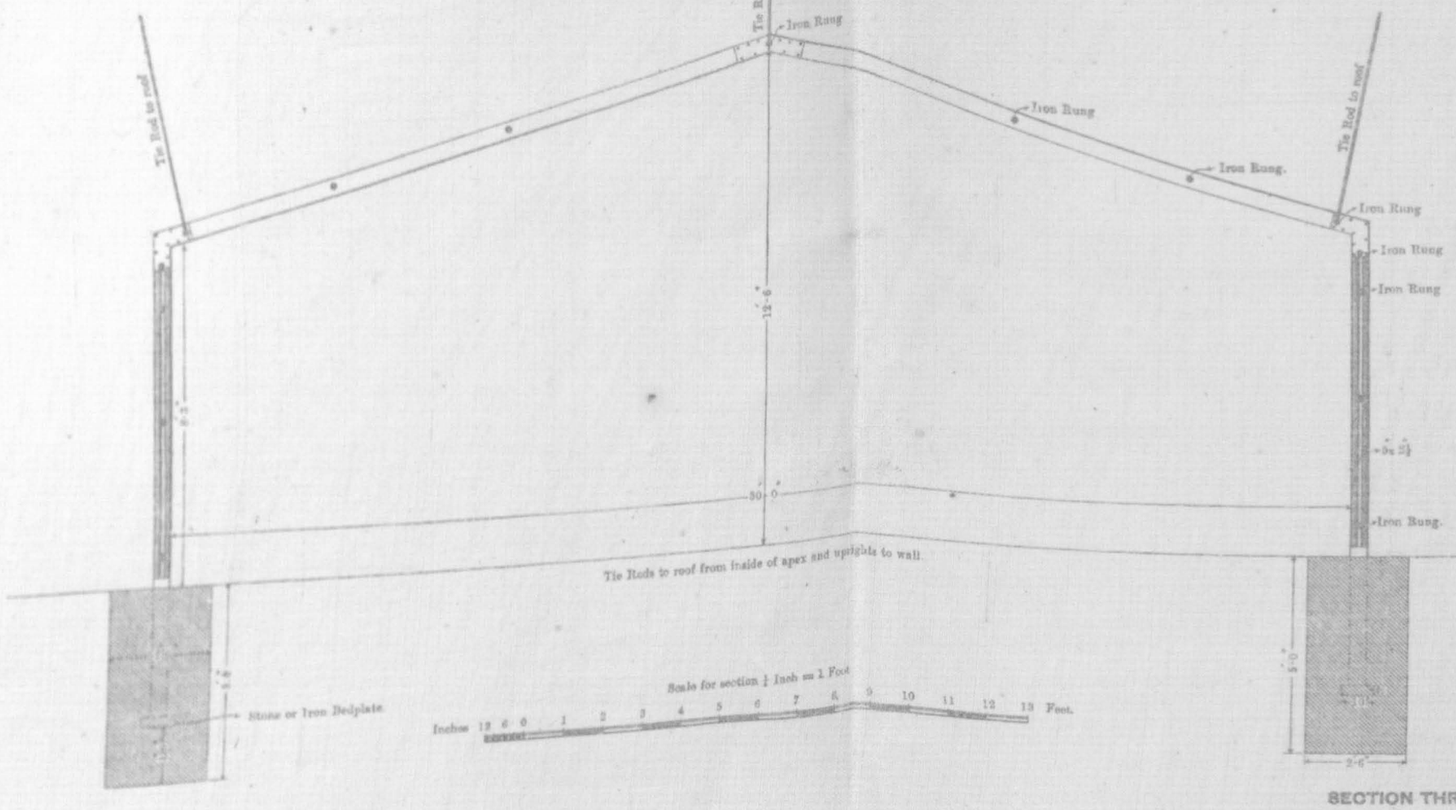
PLATE IV.

Standard Plan.

GYMNASTIC APPARATUS.

BRIDGE LADDER.

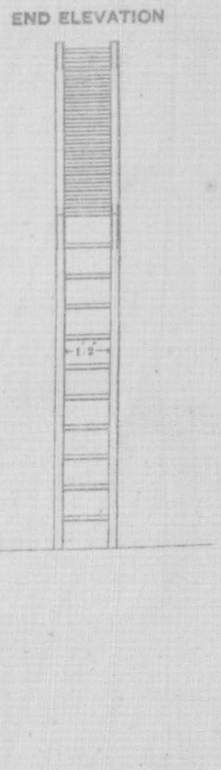
FRONT ELEVATION



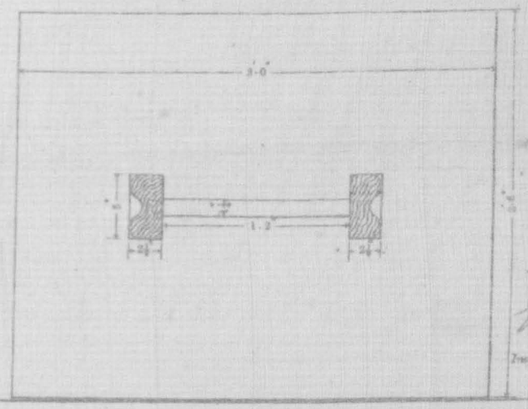
Scale for section 1 Inch = 1 Foot

Inches 12 6 0 1 2 3 4 5 6 7 8 9 10 11 12 13 Feet.

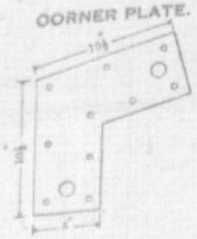
END ELEVATION



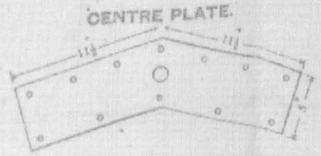
SECTION THROUGH UPRIGHT.



CORNER PLATE.



CENTRE PLATE.



Scale for details 1 Inch = 1 Foot

Inches 12 9 6 3 0 1 2 3 Feet

B. Bamford

Colonel, R.E.,

Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1888.

134/8 134/6

PLATE V.

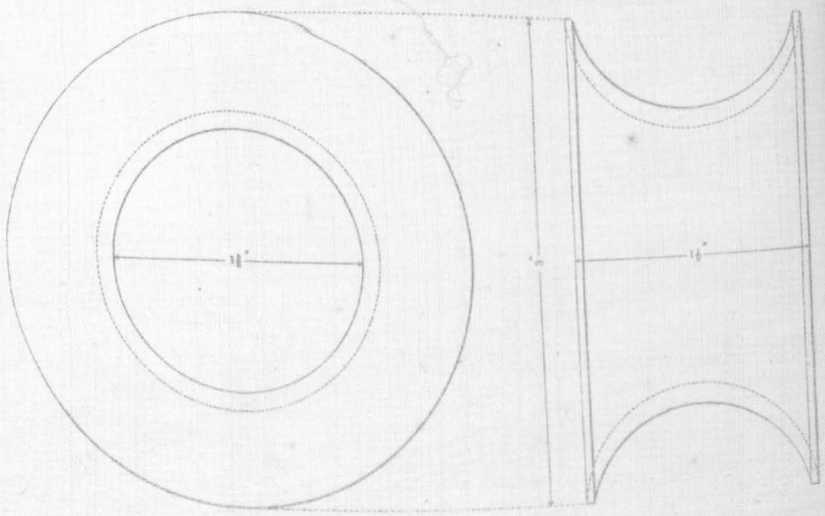
Standard Plan.

GYMNASTIC APPARATUS

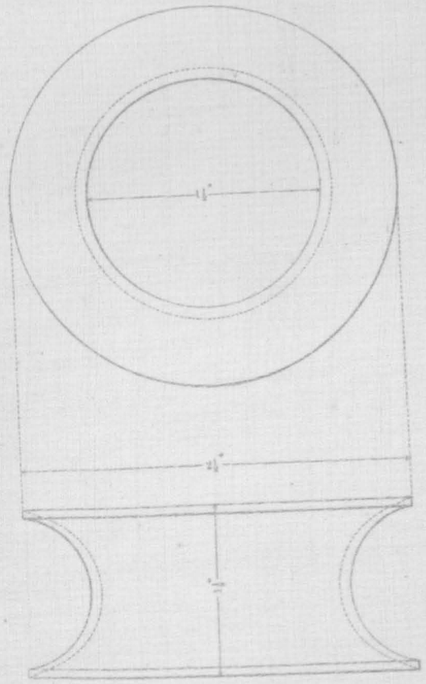
VERTICAL ROPE AND RINGS



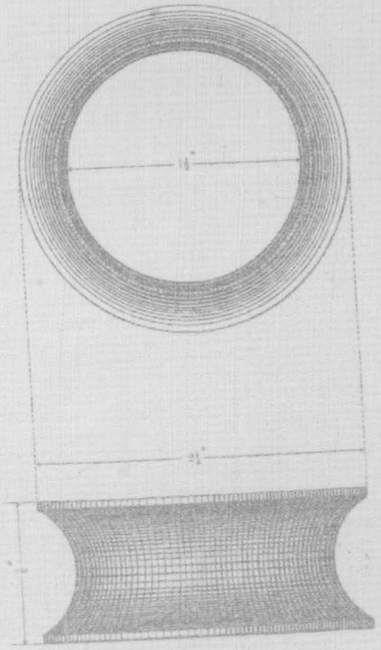
RING FOR VERTICAL ROPES



RING FOR ROPE LADDER

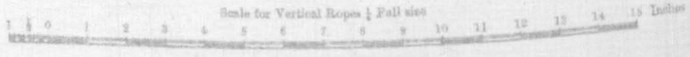


RING FOR TRAPEZE



NOTE.—All Brass Rings

Scale for Vertical Ropes ½ Full size



Scale for Rings, Full size



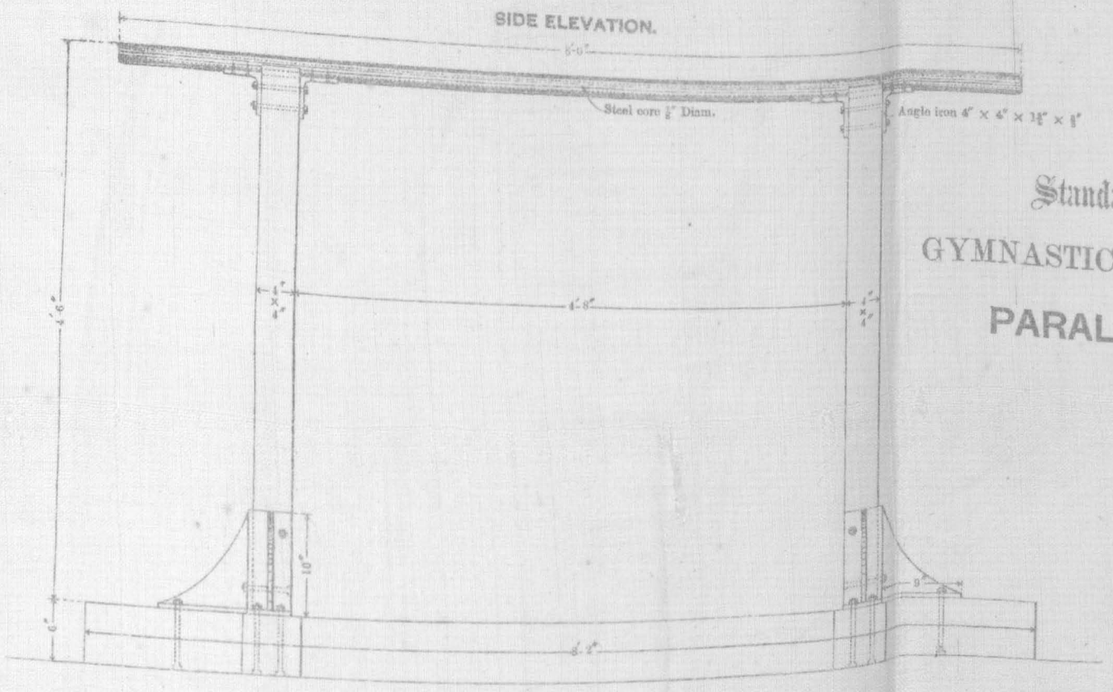
E. B. Sanford
COLONEL, R.E.
Inspector General of Military Works

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1880.

134/9 134/7

PLATE VI

SIDE ELEVATION.

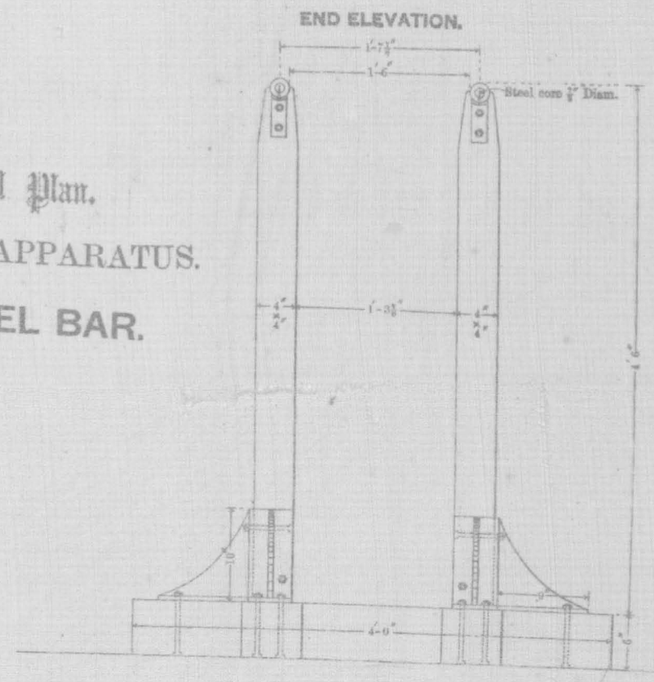


Standard Plan.

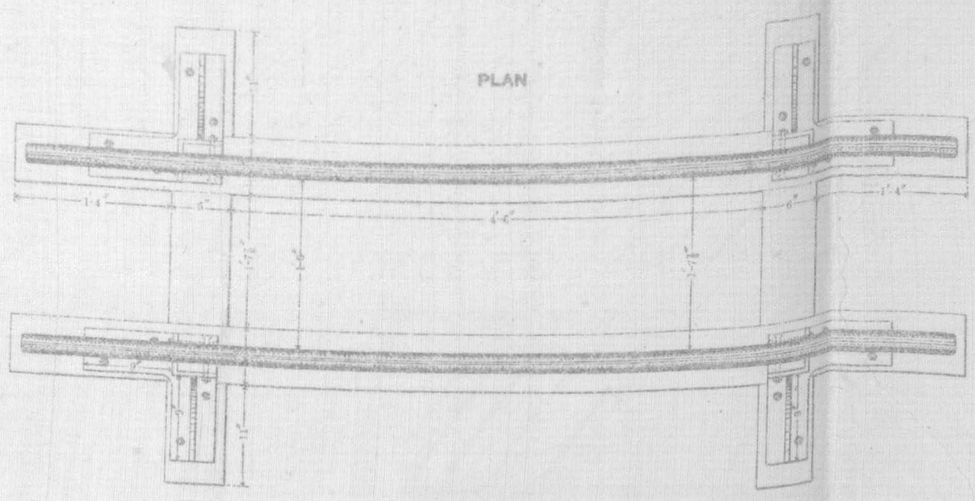
GYMNASTIC APPARATUS.

PARALLEL BAR.

END ELEVATION.



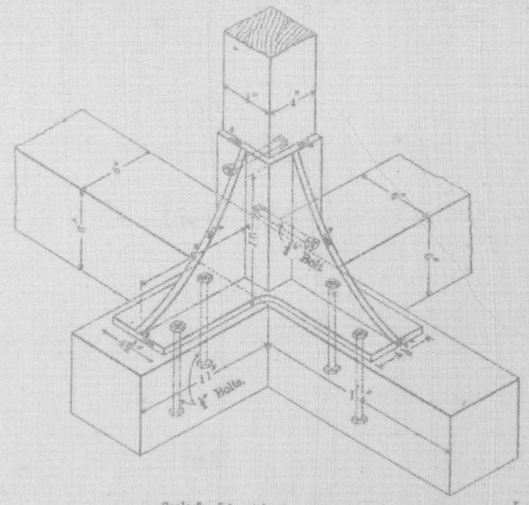
PLAN



Scale ½ Inch = 1 Foot

Inches 12 9 6 3 0 1 2 3 Feet

ISOMETRIC VIEW
OF FOOT OF UPRIGHT.



E. B. Sanford
COLONEL, R.E.,
Inspector General of Military Works.

Scale for Isometric view 1 Inch = 1 Foot

Inches 12" 9" 6" 3" 0 1' 2' Feet.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1888.

13/4/10 134/8

Standard Plan.

GYMNASTIC APPARATUS.

WOODEN RUN.

VAULTING HORSE AND TAKE OFF BOARD.

FIG. I

PLAN

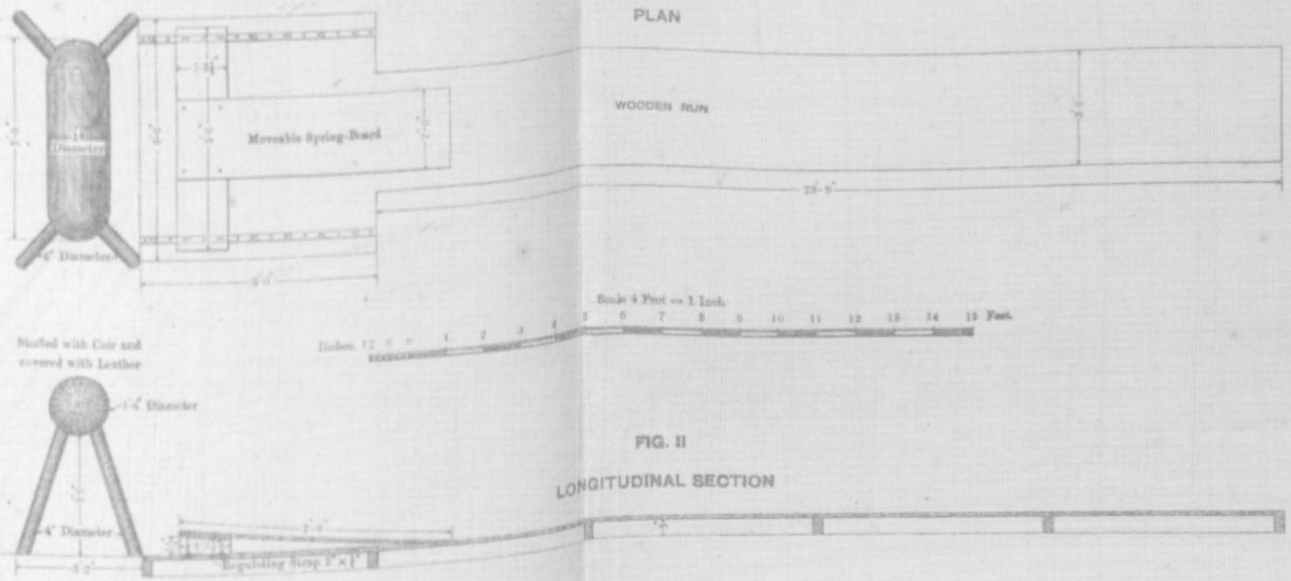


FIG. II

LONGITUDINAL SECTION

FIG. III

HALF END ELEVATION OF MOVEABLE SPRING BOARD

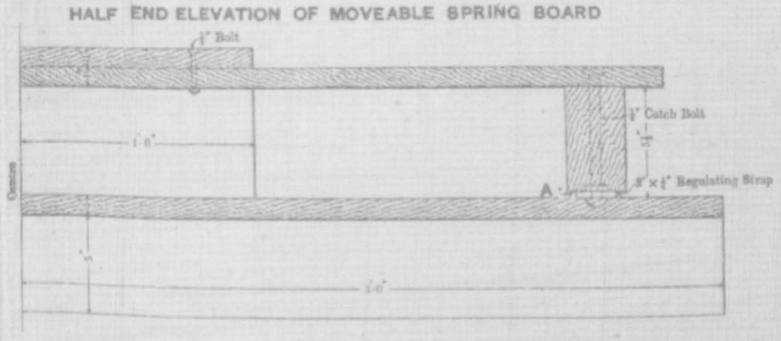
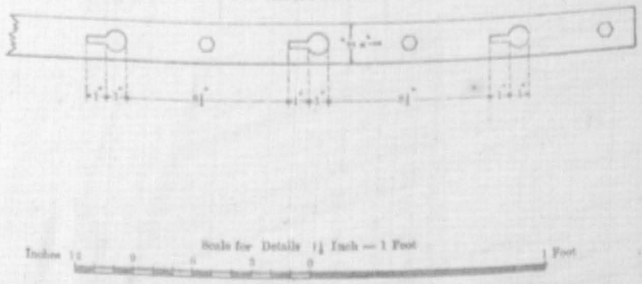


FIG. IV

ENLARGED PLAN OF REGULATING STRAP AT A FIG. III



G. Stanford
COLONEL, R.E.,
Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, SEPTEMBER 1880.

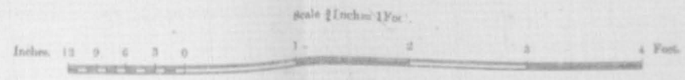
13 4/11 134/9

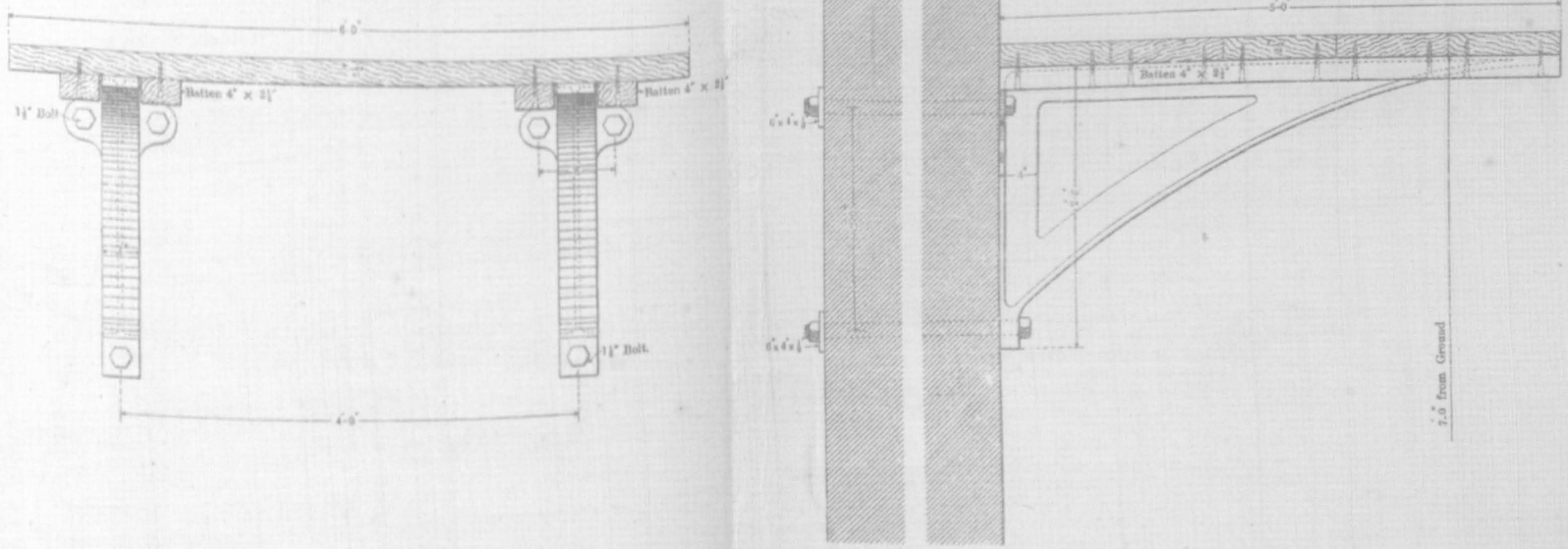
Standard Plan.

PLATE VIII.

GYMNASTIC APPARATUS.

SHELF.





Length of Bolts will depend upon the thickness of the wall; when ordering the Bolts the lengths required should be stated.

G. Wanford
Colonel, R.E.,
Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICES, CALCUTTA, NOVEMBER 1876.

134/12 134/10

Standard Plan.

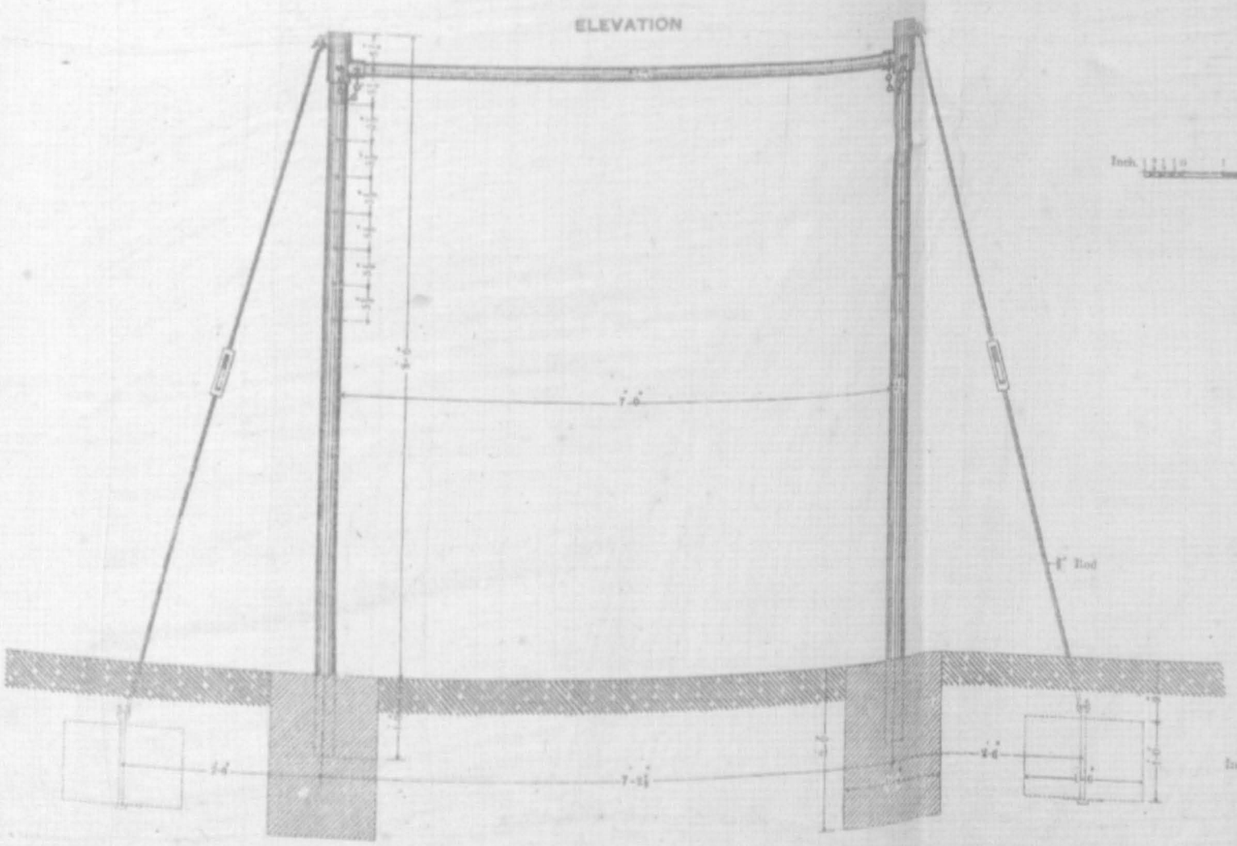
GYMNASTIC APPARATUS.

HORIZONTAL BAR.

PLAN.

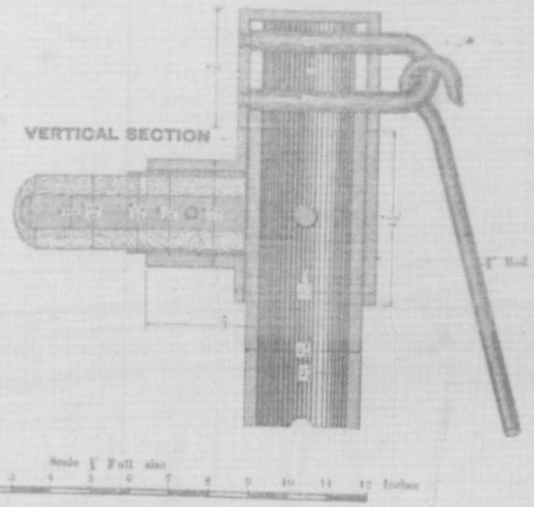


ELEVATION



ENLARGED DETAILS

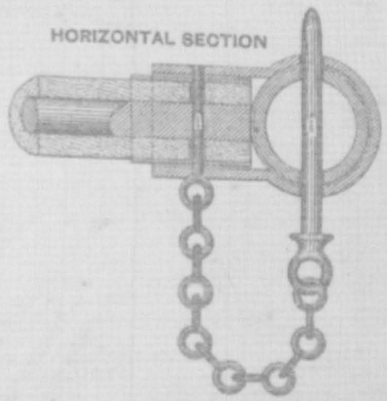
VERTICAL SECTION



Scale ½" Full size.

Inch. 12 11 10 1 2 3 4 5 6 7 8 9 10 11 12 Inches

HORIZONTAL SECTION



Scale for Plan and Elevation ½ Inch or 1 Foot

Inches 12 9 6 3 0 1 2 3 4 5 Feet

G. B. Sanford
Colonel, R.E.,
Inspector General of Military Works.

PHOTOLITHOGRAPHED AT THE OFFICE OF SURVEY, CALCUTTA, SEPTEMBER 1870.

13 4/13 134/11

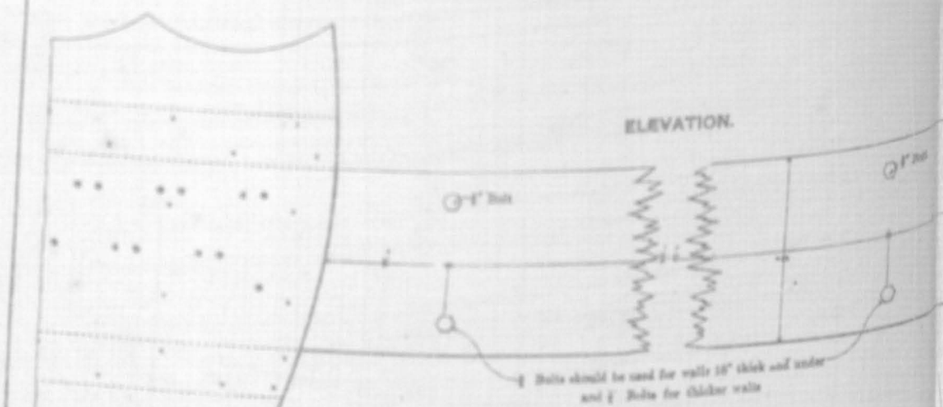
Standard Plan.

PLATE X.

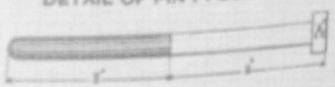
GYMNASTIC APPARATUS.

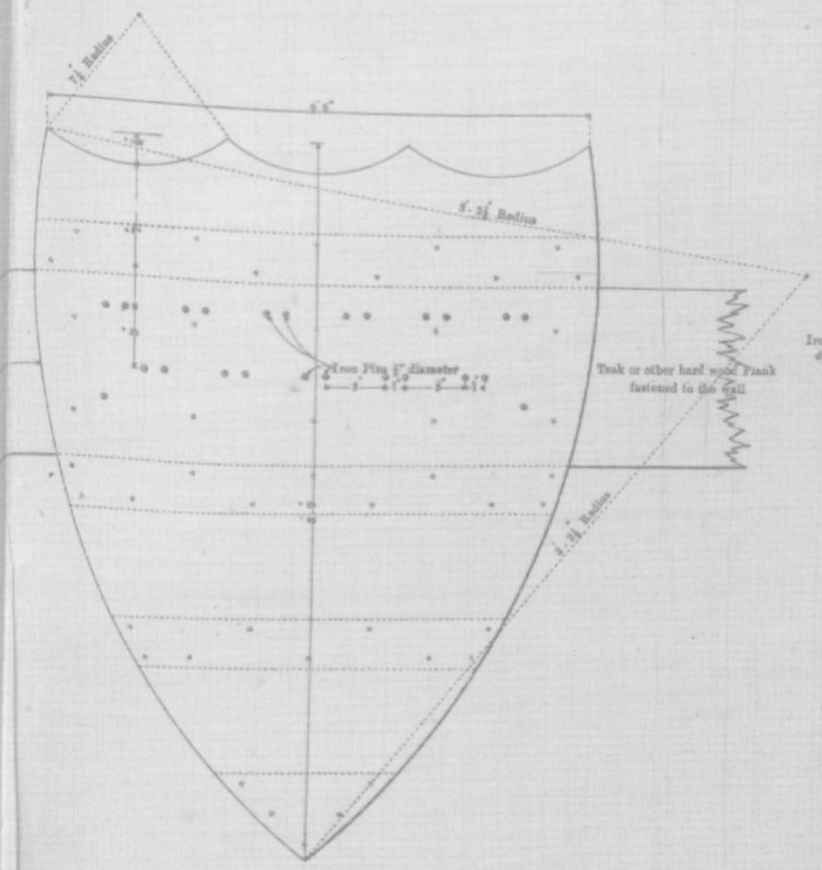
SHIELD FOR FOILS.

ELEVATION.

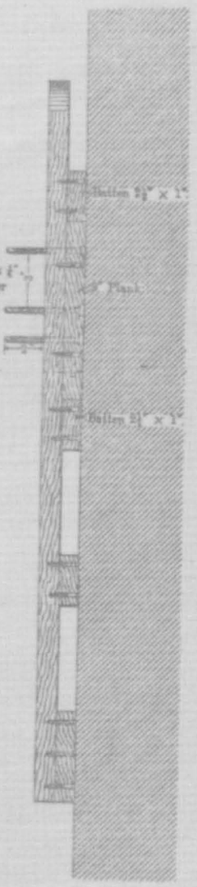


DETAIL OF PIN ½ FULL SIZE





SECTION.



Scale ½ Full size



G. B. Sanford
Colonel, R.E.
Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA, NOVEMBER 1886.

SECRETARY TO GOVERN

139
12

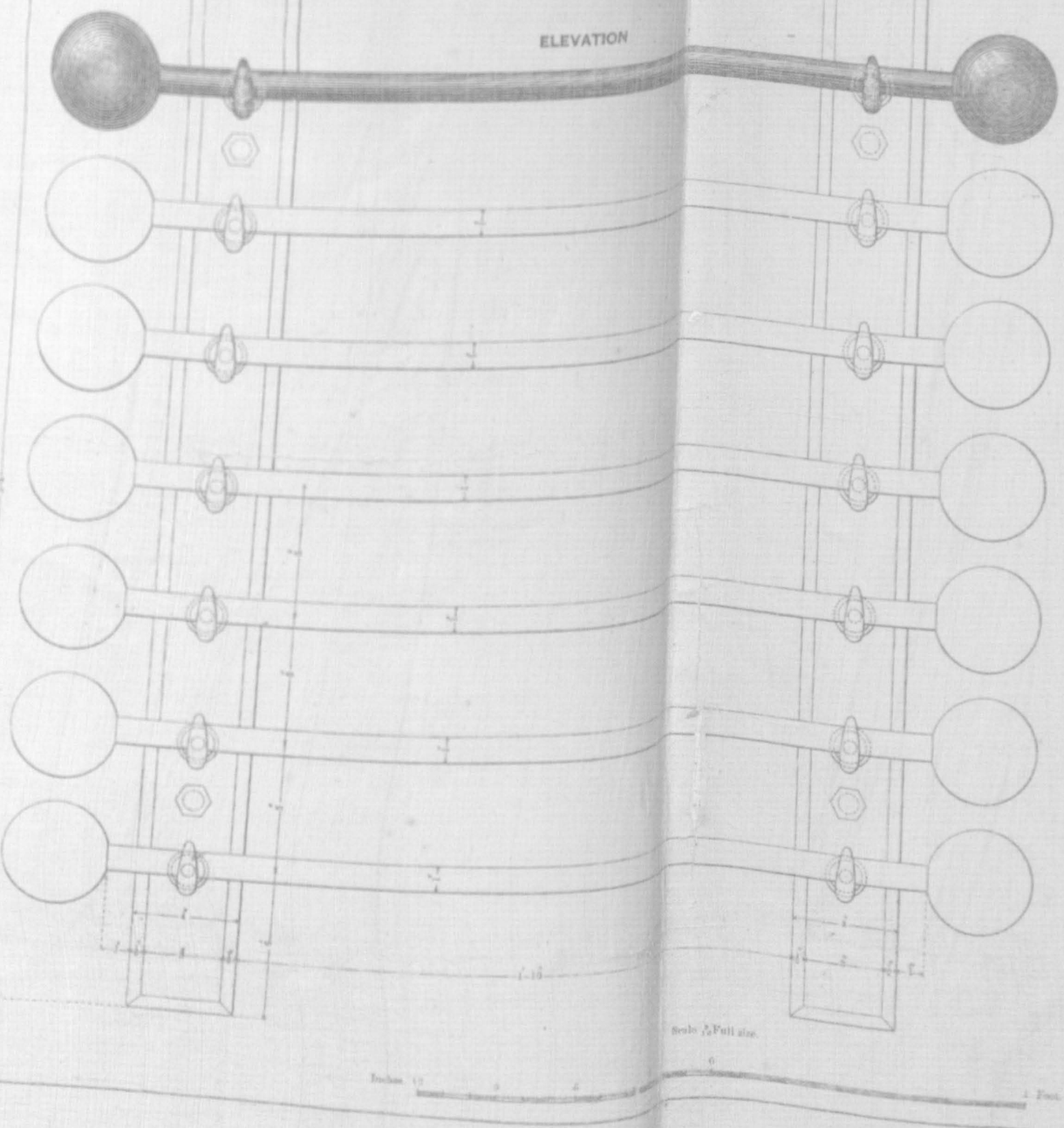
PLATE XI.

Standard Plan.

GYMNASTIC APPARATUS

BAR BELL RACKS.

ELEVATION

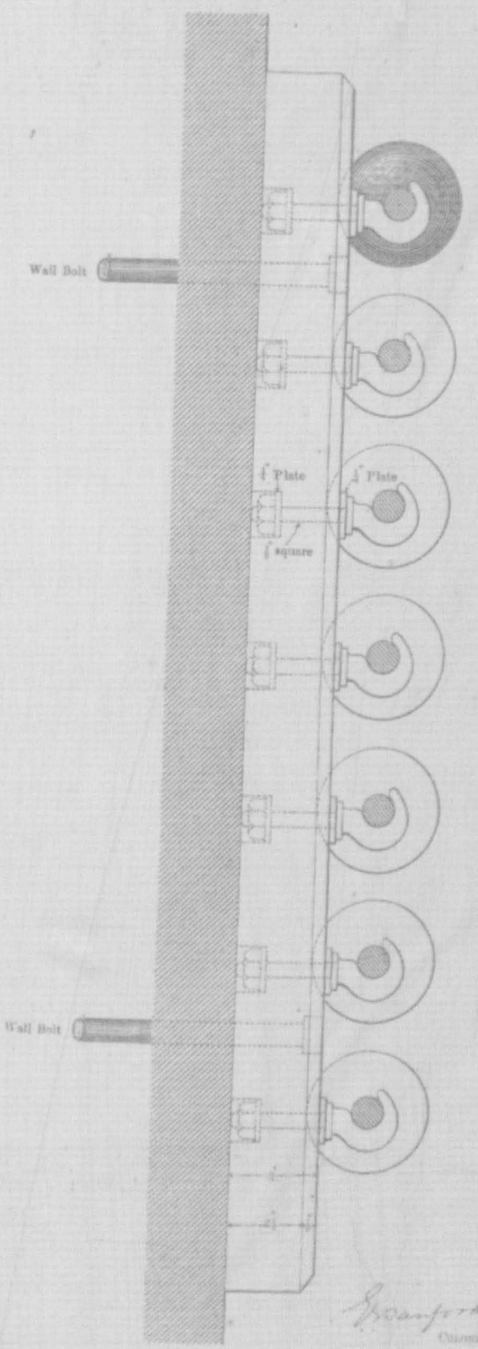


Scale $\frac{1}{12}$ Full size.

Inches 12 9 6 3 0

1 Foot

VERTICAL SECTION



Calcutta, R.E.
Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICE, CALCUTTA. SEPTEMBER 1886.

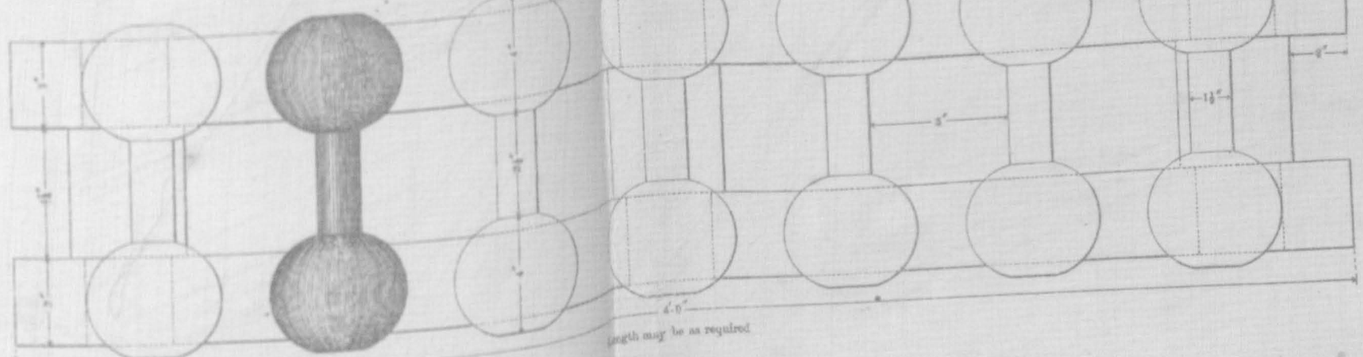
134
15 134
13

Standard Plan.

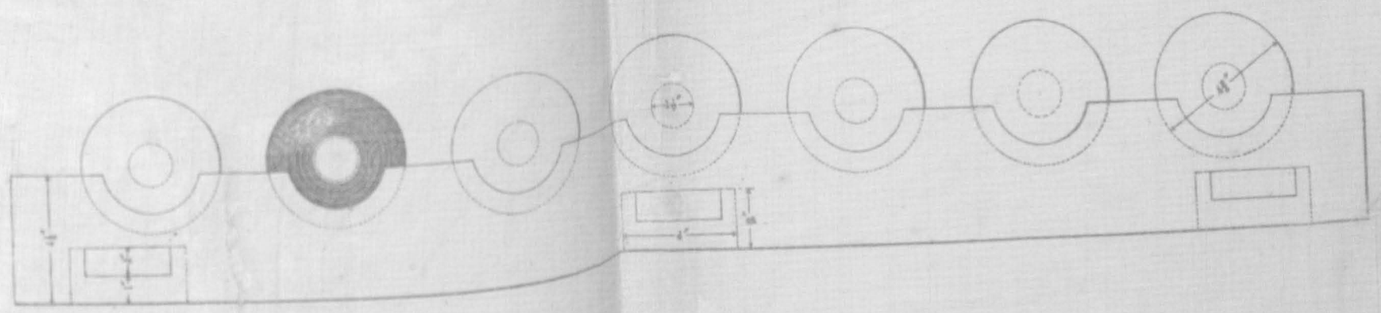
GYMNASTIC APPARATUS

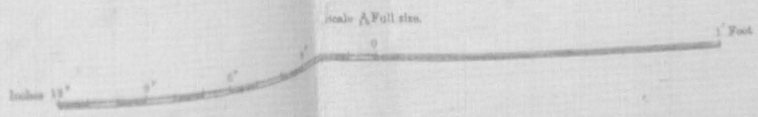
DUMB BELL RACKS.

PLAN



ELEVATION.





G. B. Sanford
Colonel, R.E.
Inspector General of Military Works.

PHOTOZINCOGRAPHED AT THE SURVEY OF INDIA OFFICES, CALCUTTA, SEPTEMBER 1886.

All communications to be addressed to the Inspector General of Military Works.

SECRETARY TO GOVERNMENT
15 JAN. 89
P.W. DEPARTMENT, MADRAS

No. 26 B

134/14

Military Works Department.

Simla, 4th January 1889.

134/1

From

The Inspector General of Military Works.

To

The Secretary to the Government of Madras,
Public Works Department.
Madras.

Sir,

I have the honor to forward 85 copies of the revised standard plan of Gymnastic Apparatus.—

I have the honor to be,
Sir,
Your most obedt. Servant,

Ward Major,
For Inspector Genl. of Mily. Works

B+R
mil works

Mcln 340

134/15

No 134 W dy Jan: 18. 1859.

Comm. to Supply
Comm. to Supply

Engineers and to the
Engrs and to the
Military dept.
Military dept.

Ry 15/1/59

WOB
18.1.59

18/1/59

Jany 18/1/59

Sent to Engrs
Mily dept
Sent to Engrs
Mily dept

Dec
30/1/59

Sent

Dw
W

Rec'd
answered
Dec
15/2/59

134/3

Govt. of 1889 Madras.

PUBLIC WORKS.

Dated 22/1/89

Read Engd.

G.O., 18 Jan 1889 No. 134

Approved

Revised Standard

plan of —, cum 3 d

& Engrs to the

Mily Bd

140/9

Engd 10/1