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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. <i>14</i>	(<i>W</i>)	Press
B.P. No.		Mis.
Dated <i>3-5-</i>	<i>1877</i>	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

3rd May 1877, No. 14 W.

Civil Works.

No. 27. Read the following letter from R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Chepauk, 27th October 1876, No. 661 :—

IN compliance with G.O., No. 176, dated 26th April 1876, I have the honor
One Plan. to submit a standard plan for Deputy
" Details. Collectors' Cutcheries with the details
" Specification and Estimate. of roof, &c., and schedule of quantities.

SPECIFICATION of Work to be performed in constructing a Deputy Collector's Cutcherry according to the Standard Design, dated 27th October 1876.

EXCAVATOR.

Excavating.—Excavate the trenches to the full depths shown on the drawing, or to such depths as the officer in charge of the work may direct.

Slips.—Clear away all slips which may occur during the progress of the work, and, if necessary, shore the sides in a manner to be approved by the officer in immediate charge of the work.

Baling.—In the event of wet foundations, bale the water from an excavation on the exterior of the site of the building. The officer in charge will fix the number of balers to be employed. They will be paid for extra at a daily rate to be agreed on with the petty contractor.

Filling in.—On receiving an order from the officer in charge in writing, fill in the sides of the completed masonry in layers of not greater thickness than 12 inches of material at a time. Well water and ram with approved beaters each layer until the whole is brought up to the level of the ground.

Flooring foundation.—Fill in the upper three courses below the flooring in layers of six inches, and immediately under the floor ram three inches of broken brick rubbish to form a foundation for the flooring.

Scaffolding.—Erect, maintain, and dismantle (under orders) all necessary scaffolding and centring. The scaffolding will consist of uprights and strongly fastened cross braced with pieces of with rope.

Clearing away on completion.—On completion of the work, clear away all rubbish which may have accumulated during the progress of the work, and all implements, machinery, and materials used during its construction. Remove stains of whitewash or lime from woodwork. Oil and render efficient all door furniture and fastenings, punkah wheels, and other movable fixtures, and deliver the work up in a sound, neat, and workman-like condition.

STONE MASON.

Stones under uprights.—Provide and lay on even beds No. 20 stones under the uprights of verandahs and porch with clean-wrought martice holes for the uprights.

Stones under trusses.—Provide and lay on even beds No. 4 stones under trusses. Dress all bed stones two lines generally.

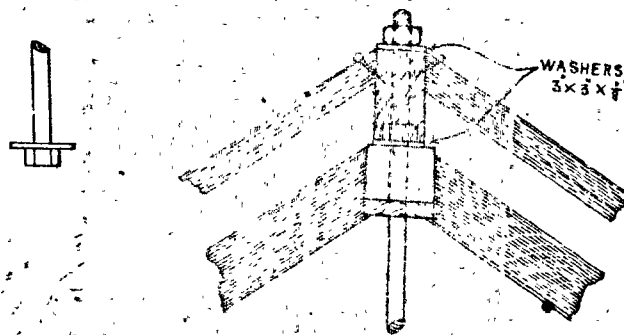
Steps.—(Where stones are procurable at a comparative cheap rate.)—Provide and lay stone steps not less than four inches in thickness tailed under masonry at least three inches. Dress

risers, treads, and joints, three lines. Hammer dress all other surfaces. Make up brickwork under steps and set in mortar, truly level. All stones for steps must exceed three feet in length.

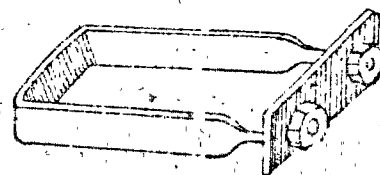
Capping to plinth.—Provide and lay No. 1 running feet of stone capping to plinth four inches in depth and not less than ten inches in breadth of bed, splayed three inches measured on the face of the splay. Fair dress all exposed surfaces two lines, and concealed surfaces one line. Salient angles not to measure less than twelve inches on either face, and hallow angles not less than nine inches.

IRONMONGER.

King-rods.—Supply to carpenter No. 2 king-rods of the forms and dimensions shown, lower end to have octagonal head and three inches by one-eighth inch washers.* The upper end nine inches of worm and double nuts and washers.†



Straps.—Supply to carpenter No. 4 straps for trusses formed of one inch by three-eighth inch iron forged to a five-eighth inch screw at ends, bearing plate one and a quarter by half inch with nuts and washers.



Spikes, Nails and Screws.—Supply to the carpenter all necessary spikes, nails, screws, and tacks.

BRICKLAYER.

Concrete.—After the trenches have been opened to the full depths determined by the officer in charge of the work, well water and ram the bottom to receive the concrete. Lay and ram in two layers twelve inches of concrete, composed as follows:—Two parts broken brick (broken to pass through a one-and-a-half inch ring), one part gravel, one part sharp river sand, and one part lime.

Footing courses.—Carry up the foundations according to the detailed drawing.

Superstructure.—Build the walls two bricks thick, splay all angles of doors and windows, leave openings for doors and windows of the sizes and dimensions shown on the drawings, fix all nogs and other minor fastenings for the after reception of the door frames.

English bond.—Lay bricks in English bond, alternate courses of headers and stretchers, using king or queen closers only when necessary. Keep courses truly level worked to three-eighth inch mortar joints, horizontal and vertical.

Flat arches.—Construct flat arches over all openings of rubbed bricks breaking bond, and twelve inches deep on face at crown set flush with face of wall.

Defects to be made good.—After the roofing and fixtures are completed, make good all defects to the masonry caused by the execution of other works. Plug all putlog holes and remove any bad face bricks marked by the officer in charge of the work.

Pointing.—Rake out the exterior joints of all masonry work to the depth of half an inch; well wash the surface and point with flush pointing. The mortar should be toned to the color of the brick by the addition of red ochre.

PLASTERER.

One coat of rough cast.—Lay with hand floats one coat of rough cast over the whole of the interior, and bring to a smooth and level surface.

Whitewash.—Whitewash all interior jambs and soffits, and nine inches in breadth at sides and twelve inches at tops of all openings. Color wash all remaining portions.

ROOFER.

Leading.—After the whole of the carpentry of the roof has been completed, lay in the valleys eighteen inches broad leading (or zinc if sheet lead is not procurable) 8 lbs. to the foot superficial with a lap of nine inches where joined.

Tiling.—Cover the roof with well-burnt tiles laid in the usual manner, and protect the ridges and hips in tiles specially made for the purpose.

Chunam bands.—Protect the ridges, hips and eaves with chunam bands rough cast on the surface, and lay bands on the tiling inches broad and inches apart.

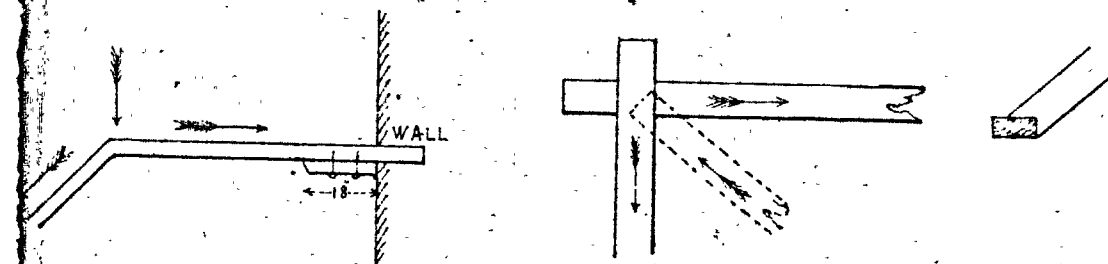
Flooring.—After the masons have brought the surface up ready to receive the floor tiles, lay an even floor of nine inches square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

CARPENTER.

Frame trusses of the dimensions and forms shown on the drawings.

The heels of the rafters will be let into the tie beams and strapped down tight, and the heads allowed to butt simply. Over the heads a chock hollowed out so as to cover the joints will be fixed on and fastened by the first nut. (The struts having been cut to admit of the camber.) Lap a rope round and twist up the tie beam to the required camber and screw home the first nut on the king-rod. The lower ends of the struts will butt simply against the tie beam and be held in their places by round pieces of wood. The upper ends will be halved into the rafters. When the trusses are hoisted, put on the ridge over the king-rod heads and screw the second nut down tight. Halve the purlins and rafters each to the extent of one inch. Support the purlin over the wall in the centre between the trusses.

Roof of the Porch.—The roof of the porch will be supported by four uprights 4" x 4", a bressummer 6" x 4" halved over the outer posts will run over these supports the ends being let into the wall. A ridge piece let into the wall and butting with a cleat will meet the tops of two hip rafters and butt against them by the three pieces being tenoned into a chock. The lower ends of the rafters will butt into the corners formed by the bressummers intersecting.



These joints must be neatly worked and care taken to make the cleat of the ridge piece butt fairly against the wall, or further supports will be necessary.

Doors and Windows.—Provide frame and fix all the necessary doors and windows.

PAINTER.

Paint all doors and windows and exposed woodwork with three coats of Carson's oak color, and the woodwork of the roof with three coats of wood-oil.

WORKMANSHIP AND MATERIALS.

The wood will be teak (or specify any other kind of timber) well seasoned and free from knots or other defects, clean wrought and finished with European tools. All mortices, mitres, and joints of every description will be carefully cut and executed in a clean and workman-like manner.

The iron will be that known as (specify the particular quality procurable) clean wrought and welded hot with an approved lap. All bolts will be provided with washers twice the diameter of the nut or head.

The concrete will be composed of one part broken brick, one part sand, one part gravel, and one part lime well mixed and thrown in a semi-fluid state. The bricks will be of (here specify the quality or quantities) cast from moulds inches by inches by inches in size, 5 per cent. of bats will be allowed. The mortar will be composed of part shell lime and part river sand well pounded and mixed fresh before using. The white and color wash will have a proportion of glue mixed hot for sizing.

(Signed) R. F. CHISHOLM,
Consulting Architect to Govt.

Estimate for constructing a Deputy Collector's Cutcherry.

DETAILED QUANTITIES.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
Court, front, rear and side walls ...	...	94 0	5 0	4 0	1,880	
Private room, front and rear walls ...	2	6 6	5 0	4 0	260	
Do. do. end wall ...	1	30 9	6 0	4 0	738	
Record and waiting room, front, rear, and side walls ...	...	53 6	5 0	4 0	1,070	
Do. partition wall ...	1	8 6	4 9	4 0	162	
Clerks' room, front and rear wall ...	2	6 6	5 0	4 0	260	
Do. end wall ...	1	36 6	6 0	4 0	876	
Verandah walls ...	...	59 0	3 10	4 0	905	
Porch wall ...	1	19 6	5 0	4 0	390	
Steps ...	1	15 0	3 0	1 6	68	
Do. ...	1	7 6	3 0	1 6	34	
Cubic feet ...	...	...	...	...	6,643	
Cubic yards ...	...	...	...	...	...	246
<i>Concrete, 12 inches thick.</i>						
$\frac{1}{4}$ of excavation = $\frac{6,541}{4}$ = ...	...	...	...	...	1,635 $\frac{1}{4}$	
For steps $\frac{1}{3}$ of excavation = $\frac{102}{3}$ = ...	...	...	...	...	34	
Cubic feet ...	...	...	...	...	1,669 $\frac{1}{4}$	
<i>Brickwork in Foundations footings.</i>						
Court, front, rear, and side walls ...	...	94 0	2 10	1 6	400	
Private room, front, rear, and end walls ...	...	35 8	2 10	1 6	152	
Record and waiting room, do. ...	...	55 8	2 10	1 6	237	
Do. partition wall ...	1	10 8	2 7	1 6	41	
Clerks' room, front, rear, and end walls ...	1	39 8	2 10	1 6	169	
Verandah walls ...	...	86 4	1 10	1 6	237	
Porch wall ...	1	17 4	2 10	1 6	74	
<i>Above footings to ground level.</i>						
Court, front, rear, and side walls ...	...	94 0	1 6	1 6	212	
Private room, front, rear, and end walls ...	...	37 0	1 6	1 6	83	
Record and waiting room, do. ...	...	57 0	1 6	1 6	128	
Do. partition wall ...	1	12 0	1 3	1 6	23	
Clerks' room, front, rear, and end wall ...	...	41 0	1 6	1 6	92	
Verandah walls ...	...	89 0	0 10	1 6	111	
Do. end ...	1	31 10	0 10	3 0	80	
Do. do. ...	1	26 1	0 10	3 0	65	
Porch wall ...	1	16 0	1 6	1 6	36	
Steps ...	1	15 0	3 0	1 0	45	
Do. ...	1	7 6	3 0	1 0	23	
Plinth ...	...	30 0	0 3	1 6	11	
Cubic feet ...	...	...	...	...	2,219	
<i>Brickwork in basement.</i>						
Court, front, rear, and side walls ...	...	94 0	1 6	1 6	212	
Private rooms, front, rear, and end walls ...	...	37 0	1 6	1 6	83	
Record and waiting room, do. ...	...	57 0	1 6	1 6	128	
Do. partition wall ...	1	12 0	1 3	1 6	23	
Clerks' room, front, rear, and end walls ...	...	41 0	1 6	1 6	92	
Verandah walls ...	...	146 11	0 10	1 6	184	
Porch wall ...	1	16 0	1 6	1 6	36	
Steps ...	1	15 0	3 0	0 6	23	
Do. ...	1	13 0	2 0	0 6	13	
Do. ...	2	11 0	1 0	0 6	6	

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Brickwork in basement—(Contd.)</i>						
Steps	1	7 6	3 0	0 6	11	832
Do.	1	6 6	2 0	0 6	7	
Do.	1	5 6	1 0	0 6	3	
Plinth	1	30 0	0 3	1 6	11	
<i>Deductions.</i>					80	88
Cutstone work as per details	...	...	...	...	8	
Do. under posts do.	...	...	...	...	...	744
Cubic feet	...	...	...	...	...	...
<i>Brickwork in superstructure.</i>						
Court, front, rear, and side walls	...	94 0	1 6	12 0	1,692	4,679
Gables	2	19 6	1 6	3 6	205	
Private room, front, rear, and end walls	...	37 0	1 6	11 0	611	
Do. gable	1	15 6	1 6	2 9	64	
Do. do.	1	14 0	1 6	2 0	42	
Record and waiting room, front and side wall	...	33 0	1 6	11 0	545	
Do. rear wall	1	12 0	1 6	7 6	135	
Do. sides of verandah	2	6 0	1 6	9 3	167	
Do. partition wall	1	12 0	1 3	17 6	263	
Do. gable	1	19 6	1 6	3 6	102	
Do. do.	1	18 0	1 6	2 9	74	
Clerks' room, front, rear, and end wall	...	41 0	1 6	11 0	677	
Do. gable	1	19 6	1 6	3 6	102	
<i>Deductions.</i>					352	460
Doors, flat arches, 3rds of	12	4 0	1 6	7 4	32	
Windows, do.	2	4 0	1 6	4 0	20	
Do., do.	2	2 0	1 6	5 0	32	
Do., do.	4	2 0	1 6	4 0	21	
Do., do.	3	1 9	1 6	4 0	3	
Stones under trusses	...	...	...	...	...	
Cubic feet	...	...	...	...	...	4,219
<i>N.B.—The area of court ventilators not deducted, and one-third the area of doors and windows allowed to cover expense of centring and arch-work.</i>						
<i>Cutstone work (if procurable at reasonable rates).</i>						
Capping to plinth	...	160 0	0 10	0 4	44	80
Do.	1	16 0	1 6	0 4	8	
Steps	1	45 0	1 3	0 4	19	
Do.	1	22 6	1 3	0 4	9	
Cubic feet	...	...	...	...	...	...
<i>Stones under Posts and Trusses.</i>						
Under posts	16	1 0	1 0	0 4	5	11
Do. in porch	4	1 6	1 6	0 4	3	
Under trusses	4	1 6	1 6	0 4	3	
Cubic feet	...	...	...	...	...	...
<i>Earth filling in basement.</i>						
Court	...	26 0	18 0	1 0	463	463
Private room	...	10 0	14 0	1	1	

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Earth filling in basement—(Continued).</i>						
Record room	...	12 0	13 7½	1 0	164	1,589
Waiting room	...	12 0	9 1½	1 0	110	
Clerks' room	...	18 0	10 0	1 0	180	
Verandahs	...	85 8	5 5	1 0	464	
Do. ends	...	38 0	1 8	1 0	63	59
Cubic feet	...	...	...	...	...	
Cubic yards	...	...	...	...	...	...
<i>Teakwood.</i>						
<i>Court—</i>						
2 Trusses, 18 feet span. { Tie beams	2	21 0	0 4	0 6	7	347
Principal rafters	4	11 3	0 4	0 5	6	
Struts	4	5 4	0 4	0 4	2	
Purlins	2	34 6	0 6	0 6	17	
Wall purlins	2	34 6	0 4	0 4	8	
Do. supports	2	1 0	1 0	0 4	1	
Ridge	1	34 6	0 3	0 9	6	
Common rafters	25	15 0	0 2½	0 4	26	
Do.	23	12 6	0 2½	0 4	19	
Private room—Purlins	2	15 6	0 6	0 6	8	
Wall purlins	2	15 6	0 4	0 4	3	
Do. supports	2	1 0	1 0	0 4	1	
Ridge	1	20 0	0 3	0 9	4	
Common rafters	24	10 0	0 2½	0 4	17	
Record and waiting room—Purlins	3	14 6	0 6	0 6	11	347
Wall purlins	2	14 6	0 4	0 4	3	
Do. supports	2	1 0	1 0	0 4	1	
Ridge	1	20 6	0 3	0 9	4	
Common rafters	22	12 3	0 2½	0 4	19	
Do.	9	9 9	0 2½	0 4	6	
Clerks' room—Purlins	2	15 0	0 6	0 6	8	
Wall purlins	2	15 0	0 4	0 4	3	
Do. supports	2	1 0	1 0	0 4	1	
Ridge	1	15 0	0 3	0 9	3	
Common rafters	22	12 3	0 2½	0 4	19	
Verandah—Rafters	55	9 9	0 2½	0 4	37	
Do.	11	8 0	0 2½	0 4	6	
Posts	13	0 4	0 4	7 3	10	
Do.	3	0 4	0 4	8 0	3	347
Bressummers	...	93 0	0 4	0 6	16	
Porch—Posts	4	9 5	0 4	0 4	4	
Struts	4	2 3	0 3	0 6	1	
Carved pieces between posts	2	1 7½	0 3	1 9	1	
Bressummers	2	15 0	0 4	0 6	5	
Do.	1	17 4	0 4	0 6	3	
Ridge	1	8 6	0 4	0 6	2	
Cleat	1	1 6	0 4	0 6	2	
Rafters	16	10 9	0 2½	0 3	9	
Collar pieces	5	7 0	0 2½	0 3	2	
Hip rafters	2	10 3	0 3	0 5	2	
Barge board for Court	2	30 2	0 3	1 6	23	
Do. for ends	1	36 6	0 2	0 11	6	
Do. do.	1	41 6	0 2	0 11	6	
Eaves board all round	...	190 0	0 1	0 6	8	
Cubic feet	...	...	...	...	...	347

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Wrought Ironwork in Trusses.</i>						
1 inch diar. king rods for trusses ...	2	7 6	15 0	× 2.62	39.30	
1 inch hex nuts and bolt heads for trusses ...	2	...	...	× 1.65	3.30	
3 inches × 3 inches × $\frac{1}{8}$ inch washers for do. ...	6	...	...	× 0.32	1.92	
2 inches × $\frac{3}{8}$ inch flat iron straps ...	4	3 0	12 0	× 2.50	30.00	
2 $\frac{1}{4}$ inches × $\frac{1}{4}$ inch bearing plates ...	4	0 9	3 0	× 3.76	11.28	
$\frac{1}{2}$ inch hex nuts for securing straps to plates ...	8	...	...	× 0.13	1.04	
2 inches × 2 inches × $\frac{1}{8}$ inch washers for securing straps to plates ...	8	...	...	× 0.14	1.12	
lbs. ...	...	...	...	...	87.96	
Doors one-third Panel and two-thirds Venetians with Frames ...	12	4 0	...	7 4	352	Supl. ft.
Venetian windows with frames ...	1	4 0	...	4 0	16	
	2	2 0	...	5 0	20	
	2	2 0	...	4 0	16	
	3	1 9	...	4 0	21	
Superficial feet ...	...	...	...	...	73	
<i>Venetian Windows with Frames and Iron Bars.</i>						
For record room ...	1	4 0	...	4 0	16	
Do. ...	2	2 0	...	4 0	16	
Superficial feet ...	...	...	...	...	32	
Ventilators in gables ...	2 in number.	...	...	...	...	
<i>Painting with three coats of "Carson's Oak Color."</i>						
Doors, panel portion ...	2 ×	12	4 0	...	240	
Do. venetians ...	3 ×	12	4 0	...	696	
Venetian windows ...	3 ×	1	4 0	...	48	
Do. with iron bars ...	4 ×	1	4 0	...	64	
Do. windows ...	3 ×	2	2 0	...	60	
Do. ...	3 ×	2	2 0	...	48	
Do. with iron bars ...	4 ×	2	2 0	...	64	
Venetian windows ...	3 ×	3	1 9	...	63	
Ventilators in gables ...	2 ×	2	4 0	...	32	
Verandah posts ...	...	13	1 4	...	126	
Do. ...	...	3	1 4	...	32	
Porch posts ...	...	4	1 4	...	48	
Do. struts ...	...	4	1 4	...	12	
Pieces between posts ...	...	2	1 6	...	5	
Barge board ...	...	2	30 2	...	91	
Do. ...	...	1	36 6	...	40	
Do. ...	...	1	41 6	...	45	
Eaves board ...	...	...	190 0	...	111	
Superficial feet ...	...	...	...	...	1,825	
Squares ...	...	...	...	...	...	18.25

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Painting ucodwork in roof with three coats of wood-oil.</i>						
Court—Tie beams ...	2	18 0	...	1 8	60	
Principal rafters ...	4	11 3	...	1 2	53	
Struts ...	4	5 4	...	1 4	28	
Purlins ...	2	31 6	...	1 6	95	
Wall purlins ...	2	31 6	...	0 4	21	
Ridge ...	1	31 6	...	1 3	39	
Common rafters ...	25	13 6	...	0 10 $\frac{1}{2}$	295	
Do. ...	23	11 0	...	0 10 $\frac{1}{2}$	221	
Private room—Purlins ...	2	12 6	...	1 6	38	
Wall purlins ...	2	12 6	...	0 4	8	
Ridge ...	1	12 6	...	1 3	16	
Common rafters ...	24	8 6	...	0 10 $\frac{1}{2}$	179	
Record and waiting room—Purlins ...	3	12 0	...	1 6	54	
Wall purlins ...	2	12 0	...	0 4	8	
Ridge ...	1	12 0	...	1 3	15	
Common rafters ...	22	11 0	...	0 10 $\frac{1}{2}$	212	
Do. ...	9	8 3	...	0 10 $\frac{1}{2}$	65	
Clerks' room—Purlins ...	2	12 6	...	1 6	38	
Wall purlins ...	2	12 6	...	0 4	8	
Ridge ...	1	12 6	...	1 3	16	
Common rafters ...	22	10 9	...	0 10 $\frac{1}{2}$	207	
Verandah do. ...	55	8 6	...	0 10 $\frac{1}{2}$	409	
Do. ...	11	6 9	...	0 10 $\frac{1}{2}$	65	
Bressummers ...	...	88 9	...	1 4	118	
Porch—Bressummers ...	...	45 0	...	1 4	60	
Ridge ...	1	7 6	...	1 4	10	
Rafters ...	16	10 9	...	0 8 $\frac{1}{2}$	122	
Collar pieces ...	5	7 0	...	0 11	32	
Hip rafters ...	2	10 3	...	1 1	22	
Superficial feet ...	...	...	...	...	2,514	
Squares ...	...	...	...	...	...	25.14
<i>Tiled roofing including flat and pan tiles, teak reapers, and chunam borders, complete.</i>						
Court ...	...	32 0	...	15 3	488	
Do. ...	...	36 0	...	11 0	396	
Private room ...	...	17 0	...	21 0	357	
Waiting do. ...	...	13 6	...	12 6	169	
Record do. ...	...	13 6	...	21 0	284	
Do. over court room ...	...	3 9	...	25 0	94	
Clerks' room ...	...	14 0	...	25 0	350	
Verandahs ...	...	75 0	...	8 6	638	
Do. ...	...	14 0	...	6 9	95	
Porch ...	...	15 6	...	22 0	341	
Superficial feet ...	...	...	...	...	3,212	
Squares ...	...	...	...	...	...	32.12
<i>Flooring with 9 inches square bricks including foundations.</i>						
Court ...	...	26 0	...	18 0	468	
Private room ...	...	10 0	...	14 0	140	
Record do. ...	...	12 0	...	13 7 $\frac{1}{2}$	164	

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Flooring with 9 inches square bricks including foundations—(Contd.)</i>						
Waiting room ...	...	12 0	...	9 1½	110	
Clerks' do. ...	...	10 0	...	18 0	180	
Verandahs ...	...	72 6	...	5 5	393	
Do. ...	...	13 2	...	3 8	48	
Do. ends ...	...	38 0	...	1 8	63	
Doors, pieces ...	12	4 0	...	1 6	72	
Superficial feet ...	...	...	...	...	1,638	
Squares ...	...	...	...	...	...	16.38
<i>Plastering interior.</i>						
Court walls ...	...	88 0	...	12 0	1,056	
Gables ...	2	18 0	...	3 3	117	
Private room walls ...	...	48 0	...	11 0	528	
Gable ...	1	14 0	...	2 6	35	
Do. ...	1	12 6	...	2 0	25	
Record and waiting room walls ...	...	48 6	...	11 0	534	
Do. do. ...	2	12 0	...	17 3	414	
Do. do. ...	1	12 0	...	7 6	90	
Do. do. ...	2	4 6	...	9 0	81	
Gable ...	1	18 0	...	3 3	59	
Do. ...	1	16 0	...	2 6	40	
Clerks' room walls ...	...	56 0	...	11 0	616	
Gables ...	2	18 0	...	3 3	117	
Door jambs ...	8	18 8	...	0 9	112	
Do. ...	4	18 8	...	1 6	112	
Window jambs ...	2	16 0	...	0 9	24	
Do. ...	2	14 0	...	0 9	21	
Do. ...	4	12 0	...	0 9	36	
Do. ...	3	11 6	...	0 9	26	
Ventilators ...	2	12 0	...	0 9	18	
Deductions.						4,061
Doors ...	8	4 0	...	7 4	235	
Do. ...	4	4 0	...	7 4	235	
Windows ...	2	4 0	...	4 0	32	
Do. ...	2	2 0	...	5 0	20	
Do. ...	4	2 0	...	4 0	32	
Do. ...	3	1 9	...	4 0	21	
Ventilators ...	2	4 0	...	2 0	16	
Superficial feet ...	...	...	...	...	...	591
Squares ...	...	...	...	...	...	3,470
Squares ...	...	...	...	...	...	34.70
<i>Pointing exterior.</i>						
Court walls ...	...	60 6	...	12 0	726	
Gables ...	2	21 0	...	3 6	147	
Private room walls ...	...	40 0	...	11 0	440	
Gable ...	1	17 0	...	2 9	47	
Record, waiting and clerks' room walls ...	...	57 6	...	11 0	633	
Do. do. ...	1	15 0	...	7 6	113	
Do. do. ...	2	6 0	...	9 3	111	
Basement all round ...	...	26 1	...	1 6	347	
Door jambs ...	8	1	...	...	...	

DETAILED QUANTITIES—(Continued).

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
Window jambs ...	2	16 0	...	0 9	24	
Do. ...	2	14 0	...	0 9	21	
Do. ...	4	12 0	...	0 9	36	
Do. ...	3	11 6	...	0 9	26	
Ventilator do. ...	2	12 0	...	0 9	18	
Deductions.						2,801
Doors ...	8	4 0	...	7 4	235	
Windows ...	2	4 0	...	4 0	32	
Do. ...	2	2 0	...	5 0	20	
Do. ...	4	2 0	...	4 0	32	
Do. ...	3	1 9	...	4 0	21	
Ventilators ...	2	4 0	...	2 0	16	
Superficial feet ...	...	...	...	...	...	356
Squares ...	...	...	...	...	...	2,445
Lead or zinc sheeting.						24.45
For valleys 18 inches broad ...	...	...	...	...	51	Lineal ft.
Lead or zinc flashings.						
Porch ...	...	...	...	...	22	
Verandahs ...	...	...	...	...	37	
Dental Cornice—						59
Court room ...	...	...	...	...	88	Lineal ft.
Windows at ends ...	2	3 0	...	...	6	
Do. ...	1	5 0	...	...	5	
					99	Lineal ft.

ABSTRACT.

Quantity.	Item.	Rate.	Per	Amount.	Total.
246 Cubic yds.	Excavation for foundations ...	RS. A. P.	C. yd.	RS. A. P.	RS. A. P.
1,669½ " feet.	Concrete ...		C. foot.		
2,219 Do.	Brickwork in foundations ...		"		
744 Do.	Do. in basement ...		"		
4,219 Do.	Do. in superstructure ...		"		
80 Do.	Cutstone work, if procurable at reasonable rates ...		"		
11 Do.	Stone under posts and trusses.		"		
59 Cubic yds.	Earth filling in basement ...		C. yd.		
347 Cubic feet.	Teakwood wrought and put up.		C. ft.		
87.96 lbs.	Wrought ironwork in trusses...		lb.		
352 S. feet.	Doors, panel, and venetian with frames ...		Sq. ft.		
73 Do.	Windows, venetian with frames.		"		
32 Do.	Venetian, windows with frames and iron bars ...		"		

ABSTRACT—(Continued).

Quantity.	Item.	Rate.	Per	Amount.	Total.
		RS. A. P.	No.	RS. A. P.	RS. A. P.
2 No.	Ventilators in gables ...		No.		
18-25 Squares.	Painting with three coats of Carson's oak color ...		Sqre.		
25-14 Do.	Painting woodwork in roof with three coats of wood oil ...		"		
32-12 Do.	Tiled roofing with flat and pan tiles, teak reapers and chumam bands complete ...		"		
16-38 Do.	Flooring with 9 inches square bricks including foundations.		"		
34-70 Do.	Plastering interior ...		"		
24-45 Do.	Pointing exterior ...		"		
51 L. feet.	Lead or zinc sheeting for valleys of roof 18 inches broad... ..		L. ft.		
59 Do.	Lead or zinc flashings... ..		"		
99 Do.	Dental cornice ...		"		
...	Contingencies at 5 per cent. ...		"		
	Total ...				

CHEPAUK,
27th October 1876.

To the Examiner of Public Works Accounts.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

No. 28.

ORDER THEREON, 3rd May 1877, No. 14 W.

ORDERED that the specification and estimate of quantities be printed and the revised design lithographed for adoption as the standard design for Deputy Collectors' Cutcheries.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.To District Engineers.
To the Consulting Architect.
" Judicial Department.Exd. E. C. Shunker:
Spare Copies

Specification of work to be performed in constructing a Deputy Collector's Cutcherry according to the Standard Design dated 27th October 1876.

Excavator.Excavating.

Excavate the trenches to the full depths shown on the drawing, or to such depths as the Officer in charge of the work may direct.

Slips.

Clear away all slips which may occur during the progress of the work, and, if necessary, shore the sides in a manner to be approved by the Officer in immediate charge of the work.

Baling.

In the event of wet foundations, bale the water from an excavation on the exterior of the site of the building. The Officer in charge will fix the number of balers to be employed. They will be paid for extra at a daily rate to be agreed on with the petty contractor.

Filling in.

On receiving an order from the Officer in charge in writing, fill in the sides of the completed masonry in layers of not greater thickness than 12 inches of material at a time. Well water and ram with approved beaters each layer until the whole is brought up to the level of the ground.

Fill in the upper three courses below the flooring in layers of six inches, and immediately under the floor ram three inches of broken brick rubbish to form a foundation for the flooring.

Flooring foundation

Erect, maintain, and dismantle (under orders) all necessary scaffolding and centring. The scaffolding will consist of

Scaffolding

uprights cross braced with pieces of and strongly fastened with rope.

On completion of the work, clear away all rubbish which may have accumulated during the progress of the work, and all implements, machinery and materials used during its construction. Remove stains of whitewash or lime from woodwork. Oil and render efficient all door furniture and fastenings, punkah wheels and other movable fixtures, and deliver the works up in a sound, neat, and workman-like condition.

Clearing away on completion.

Stone Mason

Provide and lay on even beds No 20 stones under the uprights of verandahs and Porch with clean wrought mortice holes for the uprights.

Stones under uprights

Provide and lay on even beds No 4 stones under trusses. Dress all bed stones two lines generally (Where stones are procurable at a comparative cheap rate). Provide and lay stone steps not less than five inches in thickness tailed under masonry at least three inches. Dress risers,

Stones under trusses

Steps

and joints, three lines. Hammer dress all other surfaces. Make up brickwork under steps and set in mortar, truly level. All stones for steps must exceed three feet in length.

Capping to plinth

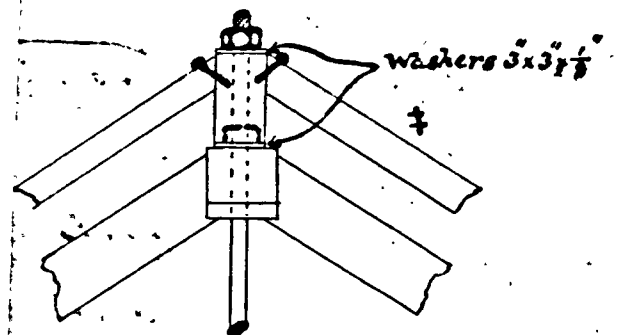
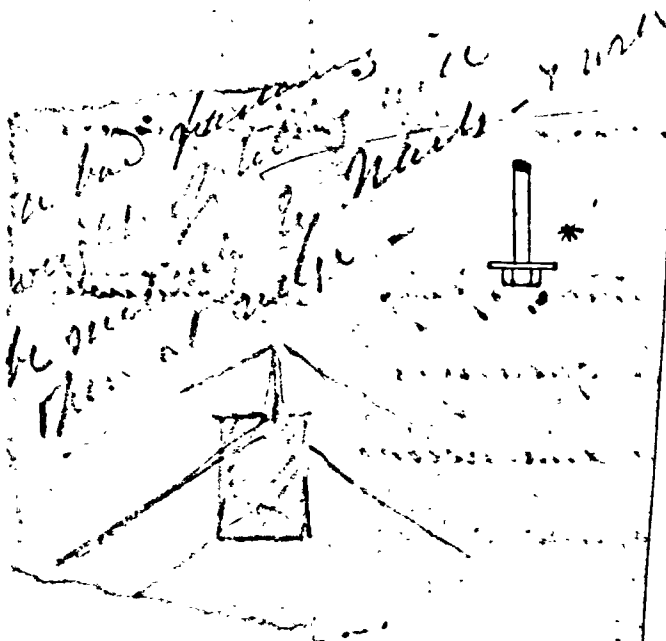
Provide and lay No running full of stone capping to plinth four inches in depth and not less than ten inches in breadth of bed, played three inches measured on the face of the play. Fair dress all exposed surfaces two lines, and concealed surfaces one line. Salient angles not to measure less than twelve inches on either face, and hollow angles not less than nine inches.

Corrected
The 1/2 inch square is
put in place of
the 1/2 inch 6-6-6-6
Excess of material is
to be removed

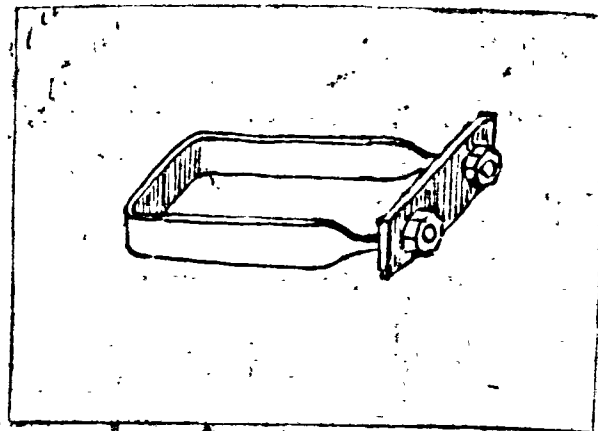
Ironmonger

King rods.

Supply to Carpenter No 2 King rods of the forms and dimensions shown, lower end to have octagonal head and three inches by one-eighth inch washers. The upper end nine inches of worm and double nuts and washers.



Supply to carpenter No 4 straps for trusses, formed of ^{one} two inches by three eighth inch iron forged to a ^{one} half inch screw at ends, bearing plate two and a quarter by half inch with nuts and washers.



Straps

Supply to the carpenter all necessary spikes, nails, screws and tacks.

Spikes, nails and screws.

Bricklayer.

After the trenches have been opened to the full depths determined by the Officer in charge of the work, well water and ram the bottom to receive the concrete. Lay and ram in two layers twelve inches of concrete, composed as follows:— Two parts broken brick (broken to pass through a one and a half inch ring), one part gravel, one part sharp river sand and one part lime

Concrete

Carry up the foundations according to the detailed drawing.

Footings courses

Build the walls two bricks thick, & lay all angles of doors and windows, leave openings for doors and windows of the sizes and dimensions shown on the drawings, fix all mogs, and other

Superstructure

minor fastenings for the after reception of the door frames.

English bond

Lay bricks in English bond, alternate courses of headers and stretchers, using king or queen closer only when necessary. Keep courses truly level worked to three eighth inch mortar joints, horizontal, and vertical.

Flat Arches

Construct flat arches over all openings of rubbed bricks breaking bond, and twelve inches deep on face at crown set flush with face of wall.

Defects to be made good. — After the roofing and fixtures are completed, make good all defects to the masonry caused by the execution of other works. Plug all putlog holes and remove any bad face bricks marked by the officer in charge of the work.

Pointing

Rake out the exterior joints of all masonry work to the depth of half an inch; well wash the surface and point with flush pointing. The mortar should be toned to the color of the brick by the addition of red ochre.

Plasterer.

One coat of rough cast

Lay with hand floats one coat of rough cast over the whole of the interior, and bring to a smooth and level surface.

Whitewash

White wash all interior jambs & soffits, and nine inch in breadth at sides and twelve inches at tops of all openings. Color wash all remaining portions

Roof

After the whole of the carpentry of the roofs has been completed, lay in the valleys eighteen inches broad leading (or zinc if sheet lead is not procurable) 8 lb to the foot superficial with a lap of nine inches where joined.

Leading

Cover the roof with well-burnt tiles laid in the usual manner, and protect the ridges and hips in tiles specially made for the purpose.

Tiling

Protect the ridges, hips and eaves with chumam bands ^{cast} rough ~~cast~~ on the surface, and lay bands on the tiling inches broad and inches apart.

Chumam bands

After the masons have brought the surface up ready to receive the floor tiles, lay an even floor of nine inches square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

Flooring

Carpenter

Frame trusses of the dimensions and forms shown on the drawings.

The heels of the rafters will be let into the tie beams and strapped down tight, and the heads allowed to butt simply. Over the heads a chock hollowed out so as to cover the joints will be fixed on and fastened by the first nut (The struts having been cut to admit of the camber) Lap a rope round and twist up the tie beam to the required camber and screw home the first

As the struts are not
timbered into the king post
I seem to think the whole
round the work sufficient
The struts would be very apt
to start when the struts were
removed during the process of
raising. The cost of adding
the cleats is very small and
they cover the joint & make
it appear comfortable.

Roofers

After the whole of the carpentry of the roofs has been completed, lay in the valleys eighteen inches broad leading (or zinc if sheet lead is not procurable) 8 to 10 to the foot superficial with a lap of nine inches where joined.

Cover the roof with well ~~laid~~ tiles in the usual manner, and protect hips in tiles specially made.

Protect the ridges, hips, chumam bands rough ^{cast} on lay bands on the tiling inches apart.

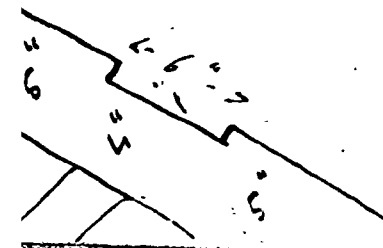
After the masons have up ready to receive the floor floor of nine inches square. The tiles will be rubbed on & gauged to fit each other.

Carpenter

Frame trusses of the de shown on the drawings.

The heels of the rafters tie beams, and strapped down. heads allowed to butt simply. Over the head a chock hollowed out so as to cover the joint will be fixed on and fastened by the first nail. (The struts having been cut to admit of the cam. Lay a rope round and twist up the tie beam to the required camber and screw home the f

✓ 5
The rafters will not be weakened to an appreciable extent provided the purlin is over the strut while the struts are added. The work will be very fresh. The actual pin cut away is 6" x 1".



nut on the king rod. ^{lower ends of the} The struts will butt simply against the tie beam and be held in their places by round pieces of wood. The upper ends will be halved into the rafters. When the trusses are hoisted, put on the ridge over the king rod heads and screw the second nut down tight. Halve the purlins and rafters each to the extent of one inch. support the purlin over the wall in the centre between the trusses.

Roof of the Porch. The Roof of the porch will be supported by 4 uprights 4×4 , a breastsummer 6×4 halved over the outer posts will run over these supports the ends being let into the wall. A Ridge piece let into the wall and butting with a cleat will meet the tops of two hip rafters and butt against them by the 3 pieces being tenoned into a chock. The lower ends of the rafters will butt into the corners formed by the breastsummers intersecting.



These joints ^{must be} are neatly worked and care taken to make the cleat of the Ridge piece butt fairly against the wall, ^{or} no further supports will be necessary.

Doors & windows.

Provide frame and fix all the necessary doors and windows.

Painter

Paint all doors and windows and exposed
woodwork with three coats of Carson's oak color, and
the woodwork of the roof with three coats of wood-oil.

Workmanship and Materials

The wood will be teak (or specify any other kind
of timber) well seasoned and free from knots or
other defects, clean wrought and finished with
European tools. All mortises, mitres, and joints
of every description will be carefully cut and
executed in a clean and workman-like manner.

The iron will be that known as
(specify the particular quality procurable) clean
wrought and welded hot with an approved lap.
All bolts will be provided with washers twice the
diameter of the nut or head.

The concrete will be composed of one part broken
brick, one part sand, one part gravel, and one part
lime well mixed and thrown in a semifluid
state. The bricks will be of here specify the quality
(or quantities) cast from moulds inches by
inches by inches in size, 5 percent
(of bats will be allowed. The mortar will be composed
of part shell lime and part river sand
well pounded and mixed fresh before using.

The

The white and colour wash will have a proportion
of glue mixed hot for sizing.

R. Christie

Estimate for Constructing a Deputy Collector's Quarters
as per Standard drawing dated 27th October 1876.

Detailed quantities

Description of work N. S. S. Contents total

Excavation for foundations

Court front rear and side walls	99.05	0.4	1280
Private room front and rear walls	26.65	0.4	260
do end wall	1.30	9.6	270
Second waiting room front rear and			
side walls	52.45	0.4	1070
do partition wall	18.64	9.4	162
Clerk's room front and rear wall	26.65	0.4	260
do end wall	136.66	0.4	376
Verandah walls	59.03	10.4	902
Porch wall	19.65	0.4	390
Steps	15.03	0.1	60
do	17.60	0.1	204

Cubic feet 6640

Cubic yards 246

Concrete 12 inches thick

$\frac{1}{4}$ of Excavation = $\frac{6640}{4}$ = 1660

for steps $\frac{1}{3}$ of Excavation = $\frac{100}{3}$ = 34

Cubic feet 1694

Brickwork in foundations

footings			
Court front rear and side walls	94.82.101.6	410	
Private room front rear & end walls	35.82.101.6	152	
Record and waiting room do	35.82.101.6	237	
do partition wall	1.10.82.71.6	41	
Clerks room front rear & end walls	1.39.82.101.6	169	
Verandah walls	36.41.101.6	237	
Porch wall	1.17.42.101.6	74	

Above footings to ground level

Court front rear and side walls	94.01.61.6	212	
Private room front rear & end walls	37.01.61.6	83	
Record & waiting room do	37.01.61.6	128	
do partition wall	1.12.01.31.6	23	
Clerks room front rear & end wall	41.01.61.6	92	
Verandah walls	39.00.101.6	111	
do end	1.31.00.103.0	89	
do do	1.26.10.103.0	85	
Porch wall	1.16.01.61.6	36	
Steps	1.15.03.01.0	45	
do	1.7.63.01.0	23	
Plinth	20.00.31.6	11	

Cubic feet 2219

Brickwork, basement

Court front rear and side walls	94.01.61.6	212	
Private rooms front rear & end walls	37.01.61.6	83	
Record and waiting room do	37.01.61.6	128	
do partition wall	1.12.01.31.6	23	
Clerks room front rear & end walls	41.01.61.6	92	
Verandah walls	146.10.101.6	184	
Porch wall	1.16.01.61.6	36	
Steps	1.15.03.00.6	23	
do	1.13.02.00.6	13	
do	1.11.01.00.6	6	

Carried over bft 800

Brought forward bft 800

Steps	1.7.63.00.6	11	
do	1.6.62.00.6	7	
do	1.5.61.00.6	3	
Plinth	1.30.00.31.6	11	
		<u>832</u>	

Deductions

Cutstonework, as per details
do under posts do

88

Cubic feet 744

Brickwork in superstructure

Court front rear and side walls	94.01.612.0	2692	
Gables	2.19.61.63.6	205	
Private room front rear & end walls	37.01.611.0	611	
do Gable	1.15.61.62.9	64	
do do	1.14.01.62.0	42	
Record & waiting room front & side wall	33.01.611.0	545	
do rear wall	1.12.01.67.6	135	
do sides of verandah	2.6.01.69.3	167	
do partition wall	1.12.01.317.6	263	
do Gable	1.19.61.63.6	102	
do do	1.18.01.62.9	74	
do do	41.01.611.0	677	
Clerks room front rear & end wall	1.19.61.63.6	102	
do Gable		<u>4659</u>	

Deductions

Doors flat Arches $\frac{2}{3}$ rds of
Windows do

12.4.01.67.4	352	
2.4.01.64.0	32	
2.2.01.65.0	20	
4.2.01.64.0	32	
3.1.91.64.0	21	
	<u>3</u>	

Stones under trusses

N.B. The area of Court ventilators not deducted,
and one third the area of doors & windows
allowed to cover expense of centring & archwork

Cubic feet - 4219

Substonework (if procurable at reasonable rates.)

Lapping to plinth

do

Steps

do

160 - 00 - 100 - 4	44
1 16 - 01 - 60 - 4	8
1 45 - 01 - 30 - 4	19
1 22 - 61 - 30 - 4	9

Cubic feet 80

Stones under posts and Trusses

Under posts

do in porch

Under trusses

16 1 - 01 - 00 - 4	5
4 1 - 61 - 60 - 4	3
4 1 - 61 - 60 - 4	3

Cub ft 11

Earth filling in basement.

Court

Private room

Record room

Waiting room

Clerks room

Verandah

8 do ends

12

8

26 - 018 - 01 - 0	468
10 - 014 - 01 - 0	140
12 - 013 - 7 1/2 - 1 - 0	164
12 - 09 - 1 1/2 - 1 - 0	110
18 - 010 - 01 - 0	180
1 85 - 85 - 51 - 0	464
38 - 01 - 81 - 0	63

Cubic ft 1589

Cubic yards 6

Teakwood

Court

Trusses 18 ft span

Sic beams

Principal rafters

Struts

Purlins

Wall purlins

do supports

Ridge

Common rafters

do

Private room

Purlins

Wall purlins

do supports

Ridge

Common rafters

Record & waiting room

Purlins

Wall purlins

do supports

Ridge

Common rafters

Clerks room

Purlins

Wall purlins

do supports

Ridge

Common rafters

Verandah

rafters

do

Posts

do

breastsummers

Porch

posts

struts

Carved pieces between posts

breastsummers

do

Ridge

Cleat

Rafters

Collar pieces

Hip rafters

Large board for court

do for ends

do do

Laves board all round

2	21	00	40	6	7
4	11	32	40	6	6
4	5	40	40	4	2
2	34	60	60	6	17
2	34	60	40	4	8
2	1	01	00	4	1
1	34	60	30	9	6
25	15	00	220	4	26
23	12	60	220	4	19
2	15	60	60	6	8
2	15	60	40	4	3
2	1	01	00	4	1
1	20	00	30	9	4
24	10	00	220	4	17
3	14	60	60	6	11
2	14	60	40	4	3
2	1	01	00	4	1
1	20	60	30	9	4
22	12	30	220	4	19
9	9	90	220	4	6
2	15	00	60	6	8
2	15	00	40	4	3
2	1	01	00	4	1
1	15	00	30	9	3
22	12	30	220	4	19
55	9	90	220	4	37
11	8	00	220	4	6
13	0	40	47	3	10
3	0	40	48	0	3
93	00	40	6	16	
4	9	50	40	4	4
4	2	30	30	6	1
2	1	7 1/2	0	31	9
2	15	00	40	6	5
1	17	40	40	6	3
1	8	60	40	6	2
1	1	60	40	6	2
16	10	90	220	3	9
5	7	00	220	3	2
2	10	30	30	5	1
2	30	20	31	6	23
1	36	60	20	11	6
1	41	60	20	11	6
190	00	10	6	8	
Cubic feet					346

Wrought Ironwork in trusses

1' clear Ring rods for trusses	2	7 - 6 15 - 0	2.62	39.30
1' hex nuts and bolt heads for do	2		1.65	3.30
3" x 3" x 1/2" washers for do	6		0.32	1.92
2" x 3/8" flat iron straps	4	3 - 8 12 - 0	2.57	30.00
2 1/4" x 1/2" bearing plates	4	0 - 9 3 - 9	3.76	11.28
1/2" hex nuts for securing straps to plates	8		0.13	1.04
2" x 2" x 1/8" washers for do	8		0.14	1.12
			<u>lbs</u>	<u>87.96</u>

Doors 3 panel and 2 Venetians with frames

12.4 - 0 7 - 4 352 Suplft

Venetian windows with frames

1.4 - 0	4 - 0	16
2.2 - 0	5 - 0	20
2.2 - 0	4 - 0	16
3.1 - 9	4 - 0	21
		<u>Suplfeet</u>
		<u>73</u>

Venetian windows with frames & iron bars for record room

1.4 - 0	4 - 0	16
2.2 - 0	4 - 0	16
		<u>Suplfeet</u>
		<u>32</u>

Ventilators in gables

2 in number

Painting with 3 coats of Carsons Oak Color

Doors panel partition	2x	12.4 - 0	2 - 6	240
Do Venetians	3x	12.4 - 0	4 - 10	696
Venetian windows	3x	1.4 - 0	4 - 0	48
- Do with iron bars	4x	1.4 - 0	4 - 0	64
- Do windows	3x	2.2 - 0	5 - 0	60
- do	3x	2.2 - 0	4 - 0	48
- do with iron bars	4x	2.2 - 0	4 - 0	64
Venetian windows	3x	3.1 - 9	4 - 0	63

Carried over Suplft 1283

Brought forward Suplft 1283

Ventilators in gables	2x	2.4 - 0	2 - 0	32
Verandah posts	13	1.4	7 - 3	126
do	3	1.4	8 - 0	32
Porch posts	4	1.4	9 - 0	48
do struts	4	1.4	2 - 3	12
pieces between posts	2	1.6	1 - 9	6
Barge board	2	30.2	1 - 6	91
do	1	36.6	1 - 1	40
do	1	41.6	1 - 1	45
Eaves board		190.0	0 - 7	111

Suplft 1825

Squares 18.25

Painting woodwork in roof with 3 coats of wood-oil

Tie beams	2	18.0	1 - 8	60
Principal rafters	14	11.3	1 - 2	53
struts	4	5.4	1 - 4	28
purlins	2	31.6	1 - 6	95
wall purlins	2	31.6	0 - 4	21
Ridge	1	31.6	1 - 3	39
Common rafters	25	13.6	0 - 10 1/2	295
do	23	11.0	0 - 10 1/2	221
purlins	2	12.6	1 - 6	38
wall purlins	2	12.6	0 - 4	8
Ridge	1	12.6	1 - 3	16
Common rafters	24	8.6	0 - 10 1/2	179
purlins	3	12.0	1 - 6	64
wall purlins	2	12.0	0 - 4	8
ridge	1	12.0	1 - 3	15
Common rafters	22	11.0	0 - 10 1/2	212
do	9	8.3	0 - 10 1/2	65
purlins	2	12.6	1 - 6	38
wall purlins	2	12.6	0 - 4	8
Ridge	1	12.6	1 - 3	16

Carried over Suplft 1469

Brought forward Supt 14.69			
Common rafters	22 10 - 9	0 - 10 1/2	207
Verandah rafters	55 8 - 6	0 - 10 1/2	409
do	11 6 - 9	0 - 10 1/2	65
breastsummers	88 - 9	1 - 4	118
Porch do	45 - 0	1 - 4	60
Ridge	1 7 - 6	1 - 4	10
Rafters	16 10 - 9	0 - 8 1/2	122
Collar pieces	5 7 - 0	0 - 11	32
hip rafters	2 10 - 3	1 - 1	22
Supt 2514			
Squares 2514			

Shed roofing including flat & pan tiles,
teak rafters & chunam borders,
complete.

Court	32 - 0	15 - 3	488
do	36 - 0	11 - 0	396
Private room	17 - 0	21 - 0	357
Waiting room	13 - 6	12 - 6	169
Record room	13 - 6	21 - 0	284
do over Court room	3 - 9	25 - 0	94
Clerks room	14 - 0	25 - 0	350
Verandahs	75 - 0	8 - 6	638
do	14 - 0	6 - 9	95
Porch	15 - 6	22 - 0	341
Supt 3212			
Squares 3212			

Flooring with 9" square bricks including
foundations.

Court	26 - 0	18 - 0	468
Private room	10 - 0	14 - 0	140
Record room	12 - 0	13 - 7 1/2	164
Waiting room	12 - 0	9 - 1 1/2	110
Clerks room	10 - 0	18 - 0	180
Verandahs	72 - 6	5 - 5	393

Carried over Supt 1455

Verandahs

do ends

Door pieces

Brought forward Supt 1456			
13 - 2	3 - 8	48	
38 - 0	1 - 8	63	
12 4 - 0	1 - 6	72	
Supt 1638			
Squares 1638			

Plastering interior

Court walls

Gables

Private room walls

Gable

do

Record & waiting room walls

do

do

do

Gable

do

Clerks room walls

Gables

Door jambs

do

Window jambs

do

do

do

Ventilators

88 - 0	12 - 0	1056
2 18 - 0	3 - 3	117
48 - 0	11 - 0	528
1 14 - 0	2 - 6	35
1 12 - 6	2 - 0	25
48 - 6	11 - 0	534
2 12 - 0	17 - 3	414
1 12 - 0	7 - 6	90
2 4 - 6	9 - 0	81
1 18 - 0	3 - 3	59
1 16 - 0	2 - 6	20
56 - 0	11 - 0	616
2 18 - 0	3 - 3	117
8 18 - 8	0 - 9	112
4 18 - 8	1 - 6	112
2 16 - 0	0 - 9	24
2 14 - 0	0 - 9	21
4 12 - 0	0 - 9	36
3 11 - 6	0 - 9	26
2 12 - 0	0 - 9	18
4061		

Deductions

Doors

do

Windows

do

do

do

Ventilators

8 4 - 0	7 - 4	235
24 4 4 - 0	7 - 4	235
2 4 - 0	4 - 0	32
2 2 - 0	5 - 0	20
4 2 - 0	4 - 0	32
3 1 - 9	4 - 0	21
2 4 - 0	2 - 0	16
591		

Supt 3470

Squares 3470

Painting exterior

Court walls
Gables

Private room walls
Gable

Reced, waiting & clerks room walls
do
do

Basement all round

Door jambs

Window do

do do

do do

do do

Ventilator do

Deductions

Doors

Windows

do

do

do

Ventilators

60.6	12.0	726
2 21.0	3.6	147
40.0	11.0	440
1 17.0	2.9	47
57.6	11.0	633
1 15.0	7.6	113
2 6.0	9.3	111
231.0	1.6	347
8 18.8	8.9	112
2 16.0	0.9	24
2 14.0	0.9	21
4 12.0	0.9	36
3 11.6	0.9	26
2 12.0	0.9	18
		2801

8 4.0	7.4	235
2 4.0	4.0	32
2 2.0	5.0	20
4 2.0	4.0	32
3 1.9	4.0	21
2 4.0	2.0	16
		356

Imperial 2445

Squares 2445

Lead or zinc sheeting
for valleys 18 inches broad

Lead or zinc flashings

Porch

Verandahs

Dental Cornice

Court room

Windows at ends

do

51 lineal ft
22
37
59 lineal ft
88
2 3.0
1 5.0
99 lineal ft

Abstract

Quantity	Item	Rate	Per Amount	Total
246 byds	Excavation for foundations		byds	
1669 1/4 cft	Concrete		cft	
2219	Brickwork in foundations			
744	Do in basement			
4219	Do in superstructure			
80	cut stone work if procurable at reasonable rates.			
11	Stone under posts and trusses			
59 byds	Earthfilling in basement		byds	
346 cft	Teakwood wrought and put up		cft	
8796 lbs	Wrought ironwork in trusses		lbs	
352 cft	Doors, panel, & venetian with frames		cft	
73	Windows, Venetian with frames			
32	Venetian windows with frames and iron bars.			
2	Ventilators in gables			
18.25 sqrs	Painting with 3 coats of Carsons oak color.		sqrs	
25.14	Painting woodwork in roof with 3 coats of wood oil			
32.12	Tiled roofing with flat and pan tiles, tedk reapers & chunam bands complete.			
16.38	Flooring with 9" square bricks including foundations			
34.70	Plastering interior			
2445	Painting exterior			
51 cft	Lead or zinc sheeting for valleys of roof 18 inches broad		cft	
59	Lead or zinc flashings			
99	Dental Cornice			
Contingencies at 5 percent				
Total Rupees				

Consgr Archts Office
Chapank 27th October 1876

K. Krishnan

Consulting Architect to Govt.

Printed and not
repeated
8731
768
5

Standard Design for
Deputy Collectors' Butcherries

708-1 Butch 76
661-27 Butch 76

Format
Specification and
Detailed quantities

Consulting Architects Office
Chepauk 27th October 1876.

4, 03rd May 1877. B.L. 97

ROADS AND BUILDINGS.

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 1st December 1876.

No. 708

FROM

THE CONSULTING ARCHITECT TO GOVERNMENT,

TO

THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

I have the honor to return the Standard
design for Deputy Collectors' Butcherries duly
corrected.

The small bit of ornamental woodwork
is the ^{only} ornament on the design, but
it may be omitted if thought desirable.

I have the honor to be
sir

Your most obedt. servant

signed R. F. Chisholm
Consy Archt. to Government

True copy.

R. Chisholm
Consy Archt. to Government

F.W.D.

23 APR 77

ROADS AND BUILDINGS.

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

No. 708

Dated 1st December 1876

Received

No. of ENCLOSURES. 3

2 In a...
Returns Standard Design &
quantities for Deputy Collectors
Butcherries,

ROADS AND BUILDINGS.

No. 661

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 27th October 1876.

FROM

THE CONSULTING ARCHITECT TO GOVERNMENT,

TO

THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

Enclosures.

1 Plan
1 Details
1 Specifications
and Estimate

In compliance with G.O. No. 176 dated
26 April 1876, I have the honor to submit a
Standard plan for Deputy Collectors Butcherries
with the details of roof &c and schedule of
quantities.

I have the honor to be
Sir

Your most obedt. servant

signed/ R. F. Chisholm
Consy Archt to Govt.

True copy.

R. F. Chisholm
Consy Archt to Govt.

281277

178

ROADS AND BUILDINGS.

From

The Consulting Architect
to Government,

To

The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

No. 661

Dated

27 October 1876

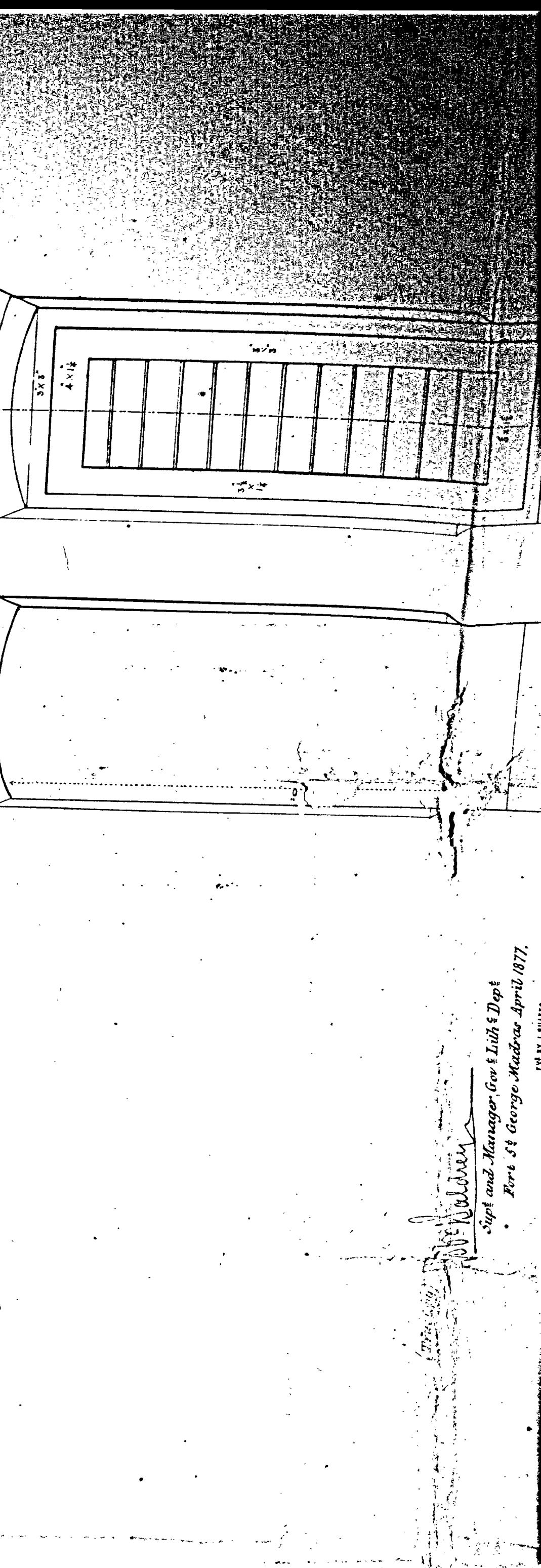
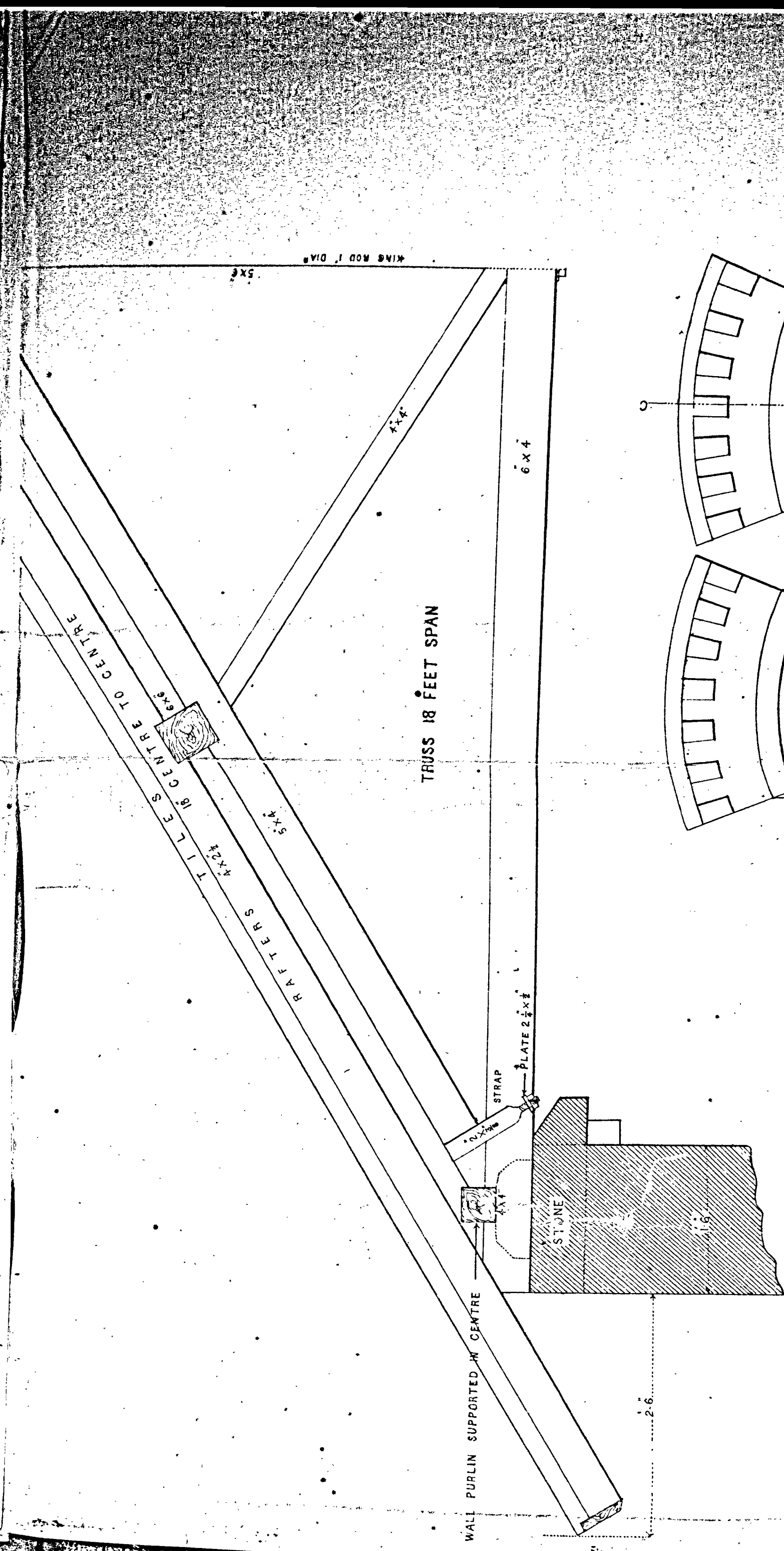
Received

No. of ENCLOSURES.

2

2 Plans with
P. W. D. 501-502

Submit standard plan for
Deputy Collectors Cutcherries with
details of roof &c and schedule of
quantities



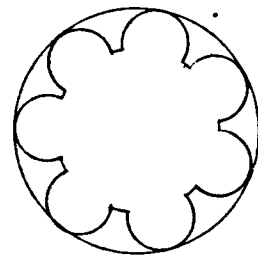
Supt and Manager Govt Lith & Dep
 Port of George Madras April 1877.
 J. H. Halden

ARRANGEMENT OF ROOF.

COMMON TILES AFTER 3.4.10

6x4

LOWER EDGE OF



SECTION F.F.

SECTION D.D.

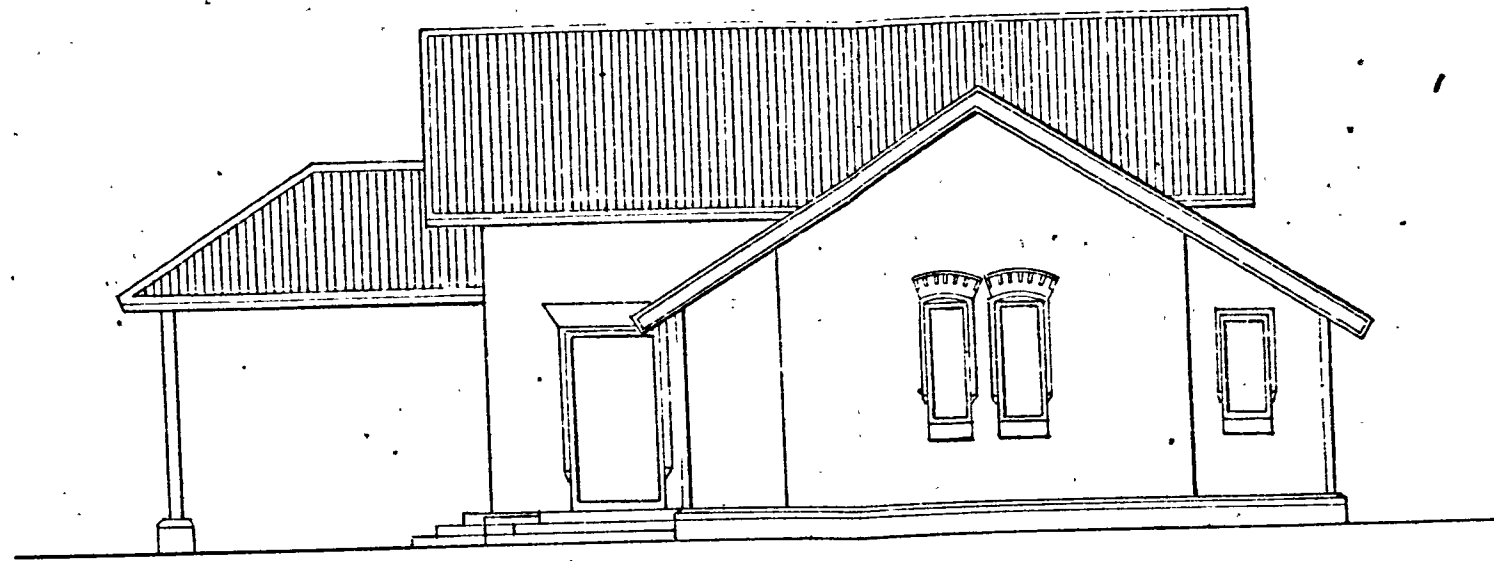
TILES

HALF ELEVATION OF PORCH
ROOF REMOVED.

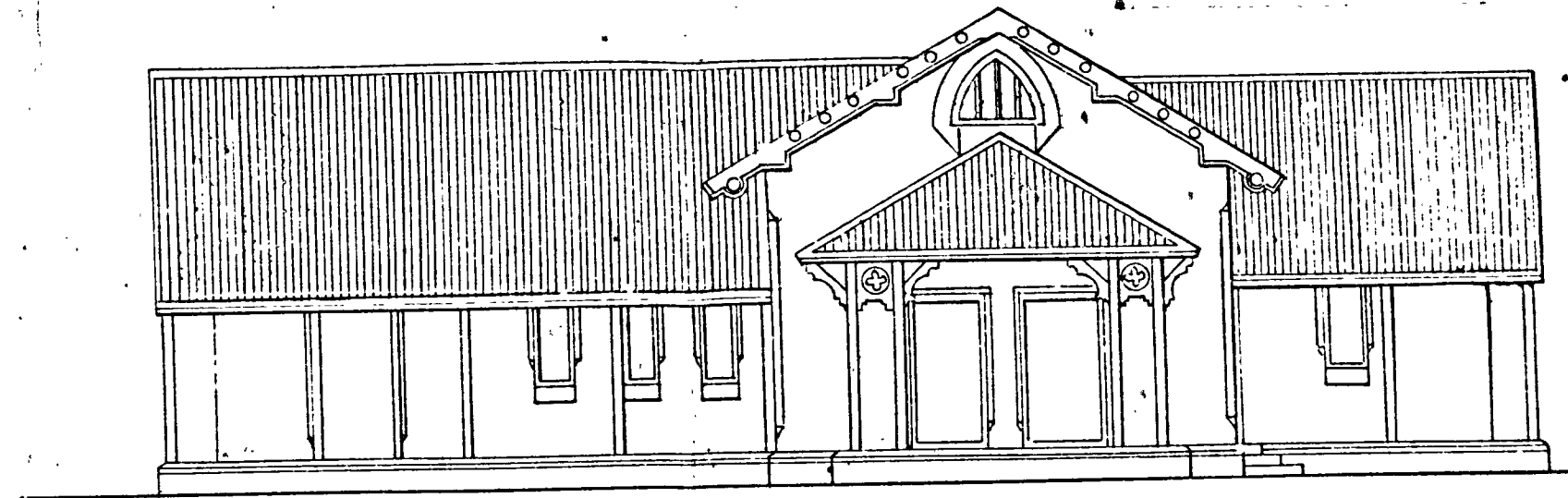
4. TO WALL - 2.6

VENETIAN WINDOW

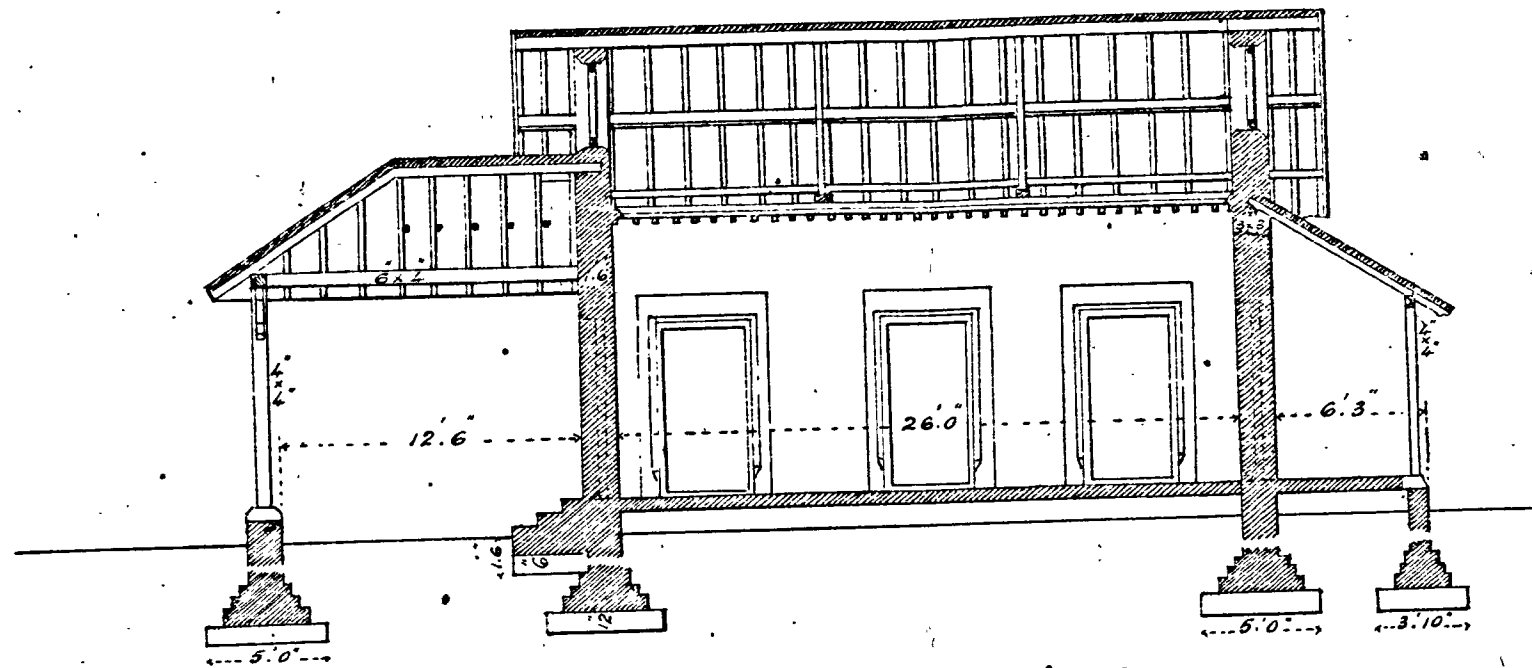
VENETIAN WINDOW



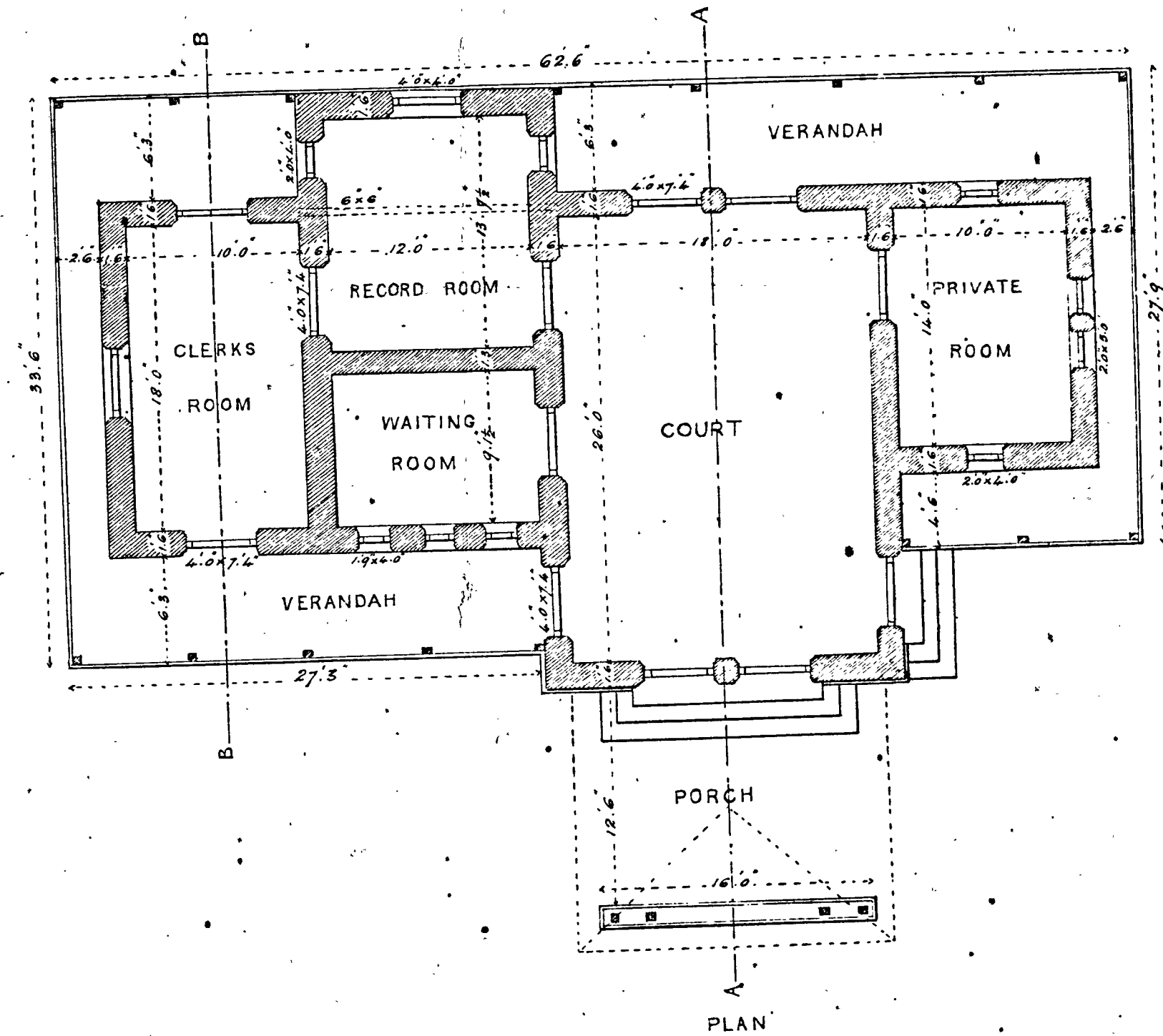
END ELEVATION



FRONT ELEVATION



SECTION THRO' A.A

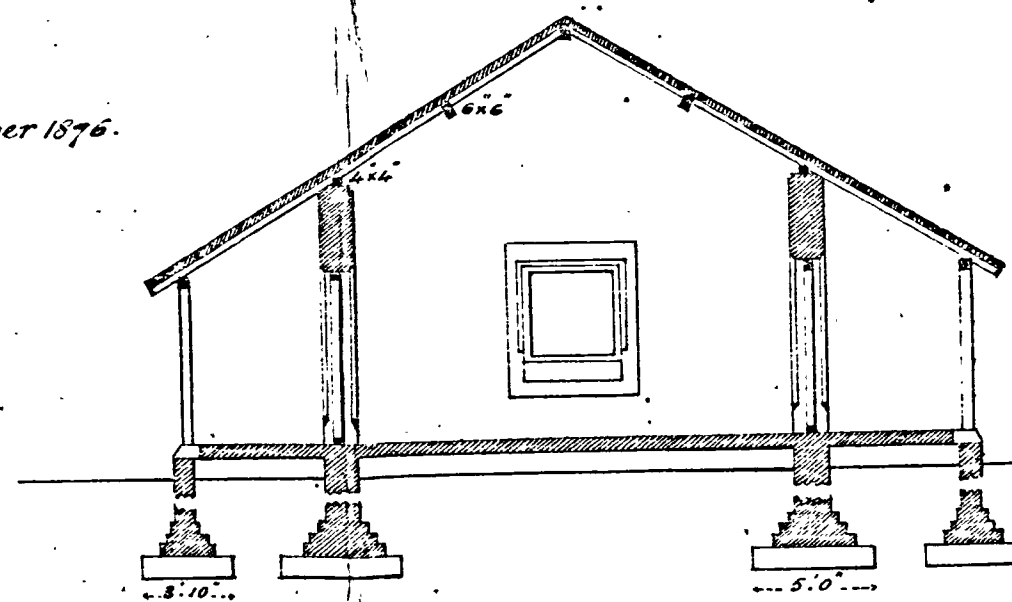


PLAN

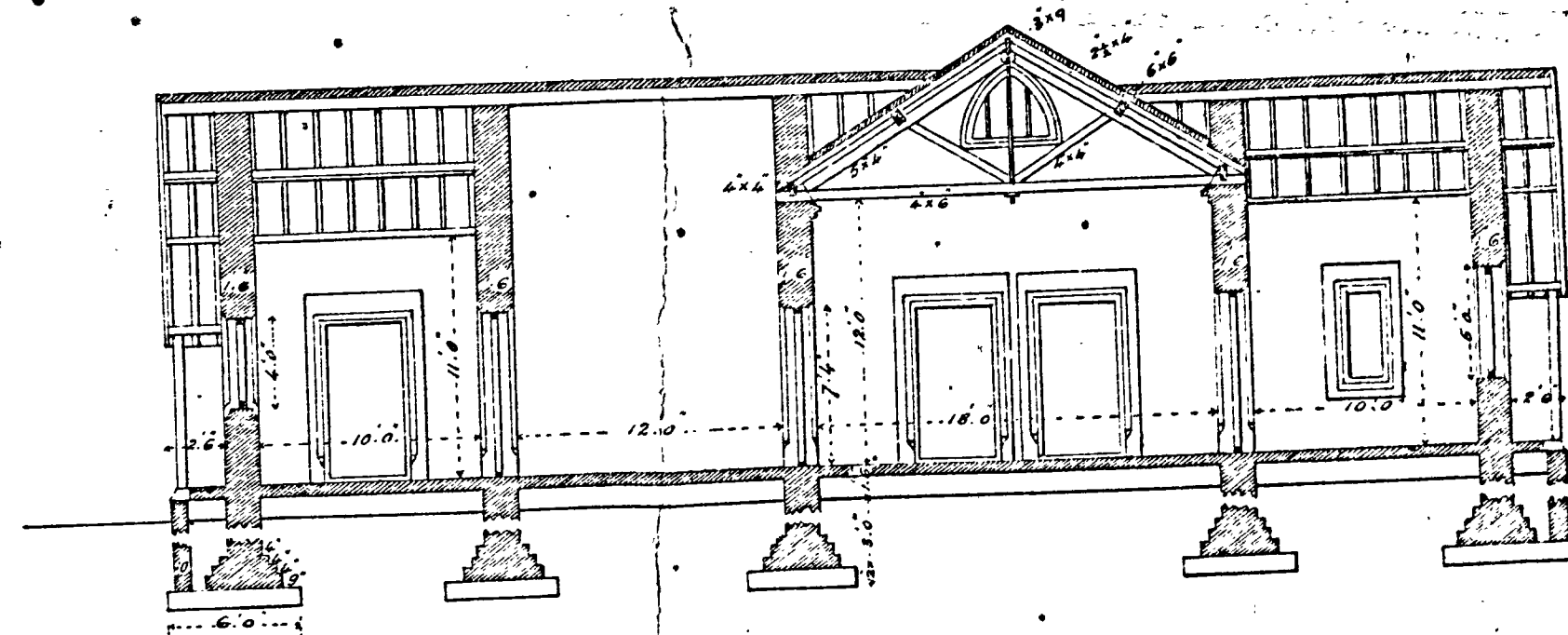
STANDARD DESIGN FOR DEPUTY COLLECTORS' CUTCHERRIES.



(Signed) R. Chisholm, F.R.I.B.A.
Consulting Architects Office. 27th October 1876.



SECTION THRO' B.B



LONGITUDINAL SECTION

H. B. Dalrymple
Supt. and Manager Govt Litho Press
Fort St. George
Madras March 1877.

C. J. J. J.
Dy. Chief Engineer for Irrigation

No 14 W. P. H. Sept 15

Proceedings of the Madras Govt
Under date the 3rd May 1877

Read the following:

From the Eng Architect (H. J. Hobbs) of 27 Oct/76
" 708 of 1 Dec/76.

Ordered that the
specification and esti-
mate of quantities be
printed and the revised
design lithographed for
adoption as the standard
design for Deputy Col-
lectors Subcheries.

24/7/77 Wk
25/77

W. Eng
Eng Architect

Indl Sept with 30 copies

Forwards Sept 26. 5. 77

Copy 2/4 Buildings & Works
Govt. of 1877 Madras.
PUBLIC WORKS.

To *Architect Engineers*

Dated

Issued

Recd.

Encl.

G. O., 8th May 1877, No. 14 W

Nos. 27-28

Standard Design for Dy
Collectors' Cutcheries The
Specification and estimate
of quantities ordered to be
printed and the revised
design lithographed as
the

Copy 2/4