

SIXTH BIENNIAL REPORT
OF THE
BOARD OF COMMISSIONERS
OF THE
IOWA HOSPITAL FOR THE INSANE
AT
INDEPENDENCE,
TO THE
EIGHTEENTH GENERAL ASSEMBLY.

[PRINTED BY ORDER OF THE GENERAL ASSEMBLY.]

DES MOINES:
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1880.

REPORT OF THE COMMISSIONERS.

To The Honorable, The General Assembly of the State of Iowa:

THE Commissioners appointed by an act of the General Assembly, entitled an "Act to permanently locate, and to provide for the erection of an additional institution for the Insane," would respectfully submit a report of their proceedings since the date of their last report, with a report of the superintendent of construction, and the exhibit of the treasurer of the Board, giving a detailed statement of the expenditure of the unexpended balance of the appropriation of the Sixteenth General Assembly, as well as that of the appropriation of the Seventeenth General Assembly.

At the date of their last report, December 1, 1877, the Commissioners reported a balance unexpended, of the appropriation of 1876, of \$9,420.86. At that time, the first and second sections of the south wing of the hospital had been inclosed, and contracts had been let for plastering and finishing these sections; and they were completed ready for furnishing early in the spring.

Four wards were furnished and occupied by patients as early as June, 1878, at a cost of \$5,500. In May, 1878, the Commissioners, after advertising for proposals as required by Chapter 120, Laws of the Thirteenth General Assembly, entered into a contract with David Armstrong to furnish the material (except the footing-stone which were obtained of Messrs. James & Rowen, of Anamosa), and build the granite foundation and basement-walls of the third and fourth sections of the south wing.

This contract was completed at a cost to the State of \$6,310.50. A contract was also entered into with Geo. Netcott for building the interior cross-walls of brick (furnished by the State) for \$684.50, which was completed by the first of December, and the walls covered to pro-

tect them from frost during the winter. In June of the same year the Commissioners contracted with M. J. Baker to furnish one million hard-burned brick, to be delivered at the hospital as required in the progress of the work, for \$6.60 per thousand. J. A. Green, of Anamosa, was awarded the contract for furnishing the dimension stone for the superstructure, and John H. Mackay entered into a contract for cutting the stone for the sum of \$4,800. Early in the spring of 1879 workmen were employed by the day, and the stone and brick walls of the third and fourth sections were completed in September. The iron beams for water-closets, bath-rooms, and the third story ceiling, with which that part of the building is made substantially fire-proof, were purchased of the Phoenix Iron Company of Philadelphia. The lumber for joists and the roof was purchased of W. E. Kellogg and Z. Stout, of Independence. P. G. Hopkins was awarded the contract for putting on the roof, and M. H. Cooley that of setting the joists and putting on the slate. Fred Hass, of Rock Island, contracted to do the copper work, and Messrs. Kenyon, Taber & Gregory, of Independence, the galvanized iron and tin work. The Commissioners have expended in the prosecution of this work the whole of the appropriation of 1878, \$41,500, and the unexpended balance of that of 1876, before mentioned.

Mr. Geo. Josselyn, the superintendent of construction, who has had charge of the work on the building from its commencement until the present time, has had supervision of all the contracts, and we are of the opinion that they have been executed at a less cost to the State than any other *equal amount of work* during the erection of the building.

That portion of the building now finished and occupied by patients is already crowded. The original design of the Commissioners was to erect a building which would accommodate 450 patients. That number is already there, and discharges of those thought to be "harmless and incurable" have now to be made to make room for recent cases.

We believe it will be sound policy for the General Assembly to make an appropriation sufficient to complete, heat, and furnish the whole building, extend the sewer, and build a reservoir. The estimate of the superintendent of construction for completing, heating, and furnishing the building is \$96,700, for the extension of the sewer \$1,800, and for the construction of a reservoir of sufficient capacity to hold 1,500,000 gallons \$6,500.

During the summer of 1878, the Commissioners advertised for proposals for erecting gas-works at the hospital. After carefully examining the several plans offered, and consulting with several well-known gas engineers, among whom were Mr. J. B. Howard, of Dubuque, Mr. R. Spencer, of Burlington, and Mr. G. B. Wicks, of Des Moines, they decided to erect works for the manufacture of gas from bituminous coal. On examination, the Commissioners found that the works could not be erected for the amount of the appropriation of the Sixteenth General Assembly, but owing to the pressing necessity for a light more safe than coal-oil lamps, which had been in use at the institution from its commencement, they were of the unanimous opinion that works should be erected commensurate with the wants of so large a building. A contract was entered into with Geo. Netcott, of Independence, to erect a brick building 22x41 feet, with an annex 12x16 feet, and also dig and wall a cistern thirty-five feet in diameter and ten feet deep. J. D. Patton, of Hicksville, Ohio, was given the contract for furnishing the material and putting up the works, which were completed in December of the same year, and gas manufactured from coal until April, 1879, when the works were found to be insufficient, and in addition the expense of making gas from coal on so small a scale was found so great as not to be economical; and Mr. Patton was allowed to change the works by putting in new retorts and making other slight changes at his own expense, so that the gas could be made from the products of petroleum. We now have the gas-works in such shape that, should the manufacture of gas from petroleum at any future time prove a failure, coal-gas can be made by changing the retorts.

Gas-fixtures and chandeliers were procured for that portion of the hospital completed, and the Commissioners found, after paying for all the purchases made, that there had been expended, in excess of the appropriation of the Sixteenth General Assembly, \$1,463.74, which has been paid out of moneys received from interest on warrants and surplus materials sold.

The appropriation of the Seventeenth General Assembly "for constructing a sewer" was used to extend the main sewer running east from the building. Geo. Netcott, being the lowest bidder, was awarded the contract, and built 1075 feet of brick sewer; but this is inadequate to the wants of the institution, and should at the earliest day practicable be extended.

The appropriation of \$500 for "repairing the road on south side of

the farm between the hospital and the B. C. R. & N. R. R.," has not been drawn from the treasury, as the Commissioners deemed it inexpedient to improve that road. They would respectfully ask that the law be changed so as to allow them to expend this appropriation on the road from the hospital to the depot of the B. C. R. & N. R. R., over which all the material used at the institution has to be transported.

The Commissioners are of the opinion that a saving of fuel and a better ventilation could be obtained in all the wards of the hospital if a fan could be put in the fan-tower. Mr. Josselyn estimates the cost of a fan large enough for this purpose, with a small engine to run it, at \$1,200. Two cisterns are necessary for the preservation of the rain water from the main center and south wing. This water is now wasted.

The Commissioners have heretofore called attention to the great want of a reservoir for the accumulation of water against a time of drouth. During the dry weather of the past summer the only supply of water was from a well, which did not afford a sufficient quantity for the use of the hospital. An appropriation for this purpose should be made, if for no other.

The portico at the entrance of the main building has never been built. The plank platform and steps have become old and decayed, and it is very necessary that the portico should be erected; besides it can be done much cheaper if contracted for along with the stone work of the fifth and sixth sections of the south wing.

Only three sections of the north wing have been pointed. The remainder of the building should be pointed at once to protect it from the storms. Driving rains beat in between the joints of the stone, and, freezing there, injure the wall.

In April, 1878, an arrangement was made with Mr. Josselyn, superintendent of construction, whereby his salary was reduced ten per cent.

At a meeting of the full board, held in November, 1879, the committee appointed to examine the treasurer's accounts and vouchers for the biennial period, made the following report:

DES MOINES, IOWA, }
November 25, 1879. }

To the Commissioners for building the Iowa Hospital for the Insane at Independence:

GENTLEMEN—Your committee to whom was referred the matter of

examining the accounts and vouchers of Geo. W. Bemis, treasurer of this board, beg leave to make the following report:

We find that Treasurer Bemis had on hand, as per his report to the General Assembly, made December 1, 1877..\$	7,420 86
That he received from the undrawn appropriation of the Sixteenth General Assembly.....	2,000 00
That he received from sale of machinery and materials, as per his report of December 1, 1877.....	657 06
Also, interest on State warrants to December 1, 1877....	171 78
That he received from the appropriation of the Seventeenth General Assembly, for building.....	41,500 00
Also, from same source, for furnishing.....	5,500 00
From same source, for a sewer.....	1,500 00
He has also received from the appropriation of the Sixteenth General Assembly, for gas-works.....	5,000 00
And from interest on State warrants and sale of materials to this date.....	740 36

Making a total from all sources of.....\$ 64,490 06

We find that he has disbursed from time to time, by order of the Board of Commissioners.....\$ 64,384 60
Leaving a balance cash on hand due the State, of.....105 46
And that his vouchers correspond with his disbursements.
All of which is respectfully submitted.

[Signed]

JNO. H. GEAR.
A. G. CASE.
E. G. MORGAN.

After more than ten years' faithful service on this board, Honorable Maturin L. Fisher died at his home at Farmersburgh, Clayton county, February 5th, of the present year. Mr. Fisher had passed the limit of three-score and ten nearly two years, and for a long time had been in feeble health, so that his death was not unexpected, although the loss of such a man at any time is a public misfortune.

Mr. Fisher came to Iowa in 1849, from Worcester, Massachusetts, where he held for several years the position of trustee of the hospital for the insane, located in that city, and also the office of postmaster, and that of librarian of the Antiquarian Society of the same place. In this state he had held the offices of Senator, President of the Senate, and Superintendent of Public Instruction.

Recognizing Mr. Fisher's fitness for the work, the General Assembly of 1860 placed him on the board of trustees of the then new hospital for the insane at Mt. Pleasant. Of that board he continued a useful member for twelve years. In 1868, when this board was crea-

ted, he was at once thought of as a proper person to aid in inaugurating the work of constructing the new edifice, and in 1870, at the time a board of trustees was chosen to control the institution when in operation, he was selected for the position. This office he retained until the summer before his death. He was thus very intimately connected with this institution from its inception, and it was fortunate for the State and the hospital that the latter had in its directory a gentlemen of such rare attainments, such extensive knowledge of the requirements of an institution like this, and such capability to make the information he had accumulated of use to the public. Still further recognizing his value, the General Assembly, in 1872, placed him on the reorganized board for the construction of the new capitol, of which board he also remained a member until his death. Mr. Fisher made the construction of public buildings, and the administration of hospitals for the insane, objects of especial study, and made himself master of the subject. He enjoyed in the highest degree the confidence and esteem, not only of his brother commissioners, but of all with whom he had been associated during his thirty years' residence in Iowa, and it is a mournful satisfaction to us to present this testimonial to the exalted worth of our deceased colleague.

Hon. Almon G. Case, appointed by the Governor to fill the vacancy occasioned by the death of Mr. Fisher, qualified himself according to law, and on the 13th day of March last took his seat on the board.

JNO. H. GEAR.

ALMON G. CASE.

ERASTUS G. MORGAN.

GEO. W. BEMIS.

Independence, Iowa, December 1, 1879.

TREASURER'S REPORT.

A detailed statement of the expenditures of the balance of the appropriation of the Sixteenth General Assembly:

1877.	
Dec. 1. To balance on hand of appropriation of the Sixteenth General Assembly.....	\$14,420 86
By cash paid for gas-works.....	\$5,000 00
By cash paid for railroad freights.....	102 60
By cash paid for plumbing materials.....	420 47
By cash paid for pipe and fittings.....	208 89
By cash paid for radiators.....	368 75
By cash paid for hardware.....	253 45
By cash paid for paints, oils, etc.....	199 82
By cash paid for salary of superintendent.....	1,206 04
By cash paid for postage and stationery.....	12 61
By cash paid for express.....	12 40
By cash paid for lumber.....	163 84
By cash paid for coal.....	2 12
By cash paid for castings.....	196 22
By cash paid for mill work and materials.....	533 88
By cash paid for slate.....	6 38
By cash paid for steam-pipe covering.....	198 29
By cash paid for carpenter work.....	1,147 10
By cash paid for iron window-guards.....	639 90
By cash paid for locks.....	496 50
By cash paid for granite basement.....	1,815 00
By cash paid for stone.....	217 50
By cash paid for advertising.....	42 00
By cash paid for painting.....	346 77
By cash paid for heating and plumbing.....	345 47
By cash paid for mason work.....	303 35
By cash paid for common labor.....	117 17
By cash paid for teams and teamsters.....	64 34
	<hr/> \$14,420 86

A detailed statement of expenditures of the appropriation of the Sixteenth General Assembly.

CREDIT.

By cash paid for granite basement.....	\$4,495 50
By cash paid for footing-stone.....	114 04
By cash paid for dimension stone.....	1,705 23
By cash paid for cutting stone.....	4,800 00
By cash paid for hauling stone from depot.....	399 50
By cash paid for railroad freights.....	3,182 65
By cash paid for express.....	5 30
By cash paid for sand delivered.....	332 75
By cash paid for lime, and hauling same from depot.....	676 95
By cash paid for brick.....	5,908 36
By cash paid for brick-masons.....	2,813 08
By cash paid for brick-work.....	684 50
By cash paid for plastering.....	679 00
By cash paid for setting stone.....	795 54

By cash paid for mason-work	\$ 74 08
By cash paid for iron beams and stairs	1,311 26
By cash paid for iron window-guards and registers	269 65
By cash paid for castings	133 92
By cash paid for cast radiators	328 95
By cash paid for pipe and fittings	68 62
By cash paid for heating and plumbing work	60 70
By cash paid for hardware	412 54
By cash paid for galvanized iron and tin-work	944 11
By cash paid for copper gutters, valleys, and flashings	2,045 27
By cash paid for wire lathing cloth	114 72
By cash paid for blacksmithing	47 44
By cash paid for lumber	1,784 02
By cash paid for mill-work and materials	458 97
By cash paid for carpenter work	1,660 89
By cash paid for slate for roofs, stairs, and floors	412 68
By cash paid for common labor	2,229 11
By cash paid for teams and teamsters	434 17
By cash paid for painting	153 45
By cash paid for paints, oils, etc.	83 24
By cash paid for blanks and stationery	15 60
By cash paid for salary of superintendent	1,700 00
By cash paid for traveling expenses of superintendent	22 30
By cash paid for commissioners' expenses	56 15
By cash paid for postage	22 71
By cash paid for telegraphing	1 30
By cash paid for advertising	50 50
By cash paid for discount on State warrants	71 25
By cash paid for furnishing	5,500 00
By cash paid for sewer	1,500 00
	<u>\$48,500 00</u>

DEBIT.

To appropriation of Seventeenth General Assembly	\$48,500 00
At the date of my last report I had a balance for materials sold of	\$ 657 06
Since that time I have received from the same source to date ..	455 66
Making a total of	<u>\$1,202 72</u>
I also reported on hand at that time, received from interest on State warrants	171 78
Since that date I have received from this source	194 70
Making a total of receipts for the biennial period from these sources	<u>\$1,569 20</u>
Of which I have paid out for gas-works	<u>1,463 74</u>
Leaving a balance in my hands of	<u>\$ 105 46</u>

GEO. W. BEMIS, Treasurer.

December 1, 1879.

REPORT OF THE SUPERINTENDENT OF CONSTRUCTION.

To the Commissioners for Building the Iowa Hospital for the Insane at Independence:

GENTLEMEN—I respectfully submit to you the following report of the progress of the work done on the hospital buildings since Dec. 1, 1877.

At that time the first and second sections of the south wing were being plastered, the contract having been awarded to Mr. M. J. Baker, the lowest bidder. This work was completed in January.

The contracts for doing the inside carpenter-work of the four different stories of these sections were awarded to Messrs. Collinge & Cooley for the first, Messrs. Bixby & Price for the second, Mr. H. A. Cramer for the third, and Mr. Wm. Uhren for the fourth.

The window-guards were furnished by Messrs. Bailey & Co., of Milwaukee. The iron sash by Messrs. Meeker & Son, of Newark, and the frames, sash, and doors by the Independence Manufacturing Company.

The whole of this work, including the heating and furnishing of these four wards, was completed by the early part of the summer of 1878, and occupied by patients.

As early as possible after the appropriation was made by the 17th General Assembly for continuing the work on the building, proposals for the building of the foundations, granite walls, and interior brick walls of the basement story of the third and fourth sections, were advertised for, and the contract for the stone-work given to Mr. D. Armstrong, and the contract for the brick-work to Mr. Geo. Netcott. At the same time, a contract for the extension of the sewers was also made with Mr. Geo. Netcott. These contracts were completed by the first of December. It was found necessary in the fall of 1878, in consequence of a demand for more accommodation for patients, to finish the three stories of the west end of section two. The plastering was let to Mr. M. J. Baker, and the carpenter-work to Messrs. Cooley & Freed; the heating and other work being done by the day, except the guards, which were furnished by Messrs. Bailey & Co., and the doors by the Independence Manufacturing Co., who also did the mill-work required. This additional room was furnished and ready for use in June. As the clay for making brick was nearly exhausted on the ground where it had formerly been procured, it was thought best to advertise for proposals for the delivery of what brick were needed for the third and fourth sections, and in May, 1878, Mr. M. J. Baker was contracted with to furnish 1,000,000 hard-burnt brick, to be delivered

in certain numbers during the years 1878 and 1879, which he has done.

A contract for furnishing the dimension-stone for the two above mentioned sections was made with Mr. J. A. Green, of Anamosa, which stone was delivered during the fall of 1878 and the spring of 1879. A contract for cutting said stone was awarded to Mr. J. H. Mackay, which was completed in August.

As heretofore, the setting of the stone and laying-up of the brick has been done by the day. By the middle of September the stone and brick-work were completed, and the walls ready to receive the roof.

Contracts for the galvanized iron and tin-work were made in the spring with Messrs. Kenyon, Taber & Gregory; for copper-work with Mr. Fred Hass; for slating and putting on two tiers of joists (the first tier having been done by the day the previous fall) with Mr. M. H. Cooley; for putting on the roof with Mr. P. G. Hopkins; and for lumber with Mr. W. E. Kellogg and Mr. Z. Stout. The iron beams were furnished by the Phoenix Iron Co., of Philadelphia.

These different kinds of work are nearly completed and will be entirely so by the first of December.

During the summer of 1878 proposals were received for the erection of coal-gas works, for which an appropriation had been made by the former General Assembly, but had not been used. Mr. J. D. Patton received the contract for completing the works, the State to build the necessary building, and construct the cistern for the gasometer; and a contract to do said work was made with Mr. Geo. Netcott.

The works were completed in January, 1879, and used for making gas during the winter, but, the result being very unsatisfactory, it was determined to change them into oil-gas works, which was done during the spring, and they have proved so far a complete success.

As the appropriation made by the 17th General Assembly will be exhausted at the completion of the contracts let for roofing in the third and fourth sections of the south wing, the work will then have to stop. The window-frames and sash are still required to inclose these sections, and the painting necessarily has had to be left undone. The inside work of these sections, with the air-ducts, sewerage, ventilating ducts, heating and plumbing, and furnishing, has to be done before they can be occupied.

There are still two sections to be built, the fifth and sixth, which will when done complete the south wing. I have prepared estimates for this work, contemplating the work to be done in the same manner and with the same kind of material used in the former sections. In the plans for these two sections, I would suggest some alterations, which I think will be a great improvement over the corresponding sections of the north wing; first, by detaching the water-closets and bath and drying rooms, and putting them in a separate building, as in section three just built; and, secondly, by changing the attic so as to give additional room for patients and making it fire-proof. The location of the back stairway would also be changed, and two additional rooms made on each floor by this change.

The connections from the different water-closets and bath-rooms will have to be made to the general sewer; also an air-duct constructed to connect with the air-duct leading to the fan room. I think it

advisable to have a separate steam pipe leading directly from the boilers through this air-duct, to supply the radiators in these sections, as the distance is too great for the steam to travel through the present main, the center building and first section radiators often robbing those farther off, and the radiators not working as freely in consequence.

It seems to me that as soon as possible a double fan should be placed in the fan-tower, and by having a small engine to run it, at all times an equal pressure could be secured all over the building, which could be then more readily heated under all conditions.

Two cisterns, to hold the rain-water running from the roofs of the south wing, are much needed, one on the east side of the wing, and one on the west, connected by a pipe.

The portico to the entrance of the main building should be built, so as to complete that section and relieve it of its present unfinished appearance, and, if contracted for with the remainder of the stone-work needed in sections five and six, could be done fully twenty per cent cheaper than if let in a separate contract.

The stone steps and platforms leading to the different entrances all over the building, have none of them the needed iron railings for protection against persons falling off, and they should be put up; also, some wooden steps leading into the basement should be replaced by stone. The iron crestings to the towers have also been left off.

The pointing of the stone-work of the whole building has not been done, excepting the so-called Armstrong sections and the engine-house building. It should be done as soon as possible, not only to add to the appearance, but to prevent the water working into the seams and keeping the walls damp.

The different items of work I have mentioned above would have been done at the proper time, but for the appropriations running short, and our having to do that which was of absolute necessity to the occupying of the buildings.

Some provision should be made for getting rid of the sewerage, either by running it down to the river, or by utilizing it in some way. I think by a proper distribution of the same through drain-pipe, and using tanks for holding the heavier parts, and mixing those with earth, the whole can be got rid of at a trifling cost, and made to benefit the land as a fertilizer.

A reservoir also is very much needed to hold a supply of water, in case of continued dry weather.

Very respectfully yours,

GEORGE JOSSELYN,
Superintendent of Construction.

Independence, December 1, 1879.