

CHRISTCHURCH CITY COUNCIL ARCHIVES

CCC Archives Accession No: CH343/65a (CCC/ARC/343/89)

Record Series: Christchurch City Council: City Surveyor Reports 1862-1863

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Date Range: April 1862-June 1863

Transcription:

Page no and index comments	Main Text
Item 1 pg1 Wages contracts	Surveyors report - 28 April 1862 (on pg 2 - back of report) I enclose the wages sheet for the partwork. As the tenders for two contracts are to be given in on Wednesday 4pm it might be well for the dispatch of business to hold a meeting on that evening as there seems a likelihood of considerable competition. Should such a meeting take place I will make it my business to lay before the council statistics relative to the respective xx est of stone and wood curbing. Instead of buying wood peacemeal I would suggest that tenders be advertised for the supply of hard timber and pine at so much per hundred – in such quantities and at such times as may be required. I have the honor to be Gentlemen Yr obedient servant Rowland Davies To the Municipal Council ChCh
pg3 Cashel St St Asaph St Colombo St Hereford St I need to read estimates Tuam St	ChCh May 5 th 1862 To the Municipal Council (noted at bottom of page 3) Gentlemen I have the honour to report as follows, W.Gimmel who accepted the contract for repairs in Cashel district has not appeared. The estimated cost of St Asaph Street is £52.00. The estimated cost for improvements in Colombo St is £36.0.0. The works in Hereford Street commenced this morning. I would recommend formation and metaling the street. Tuam street – being a leading thoroughfare – it would be well to metal it before the winter. The cost would not exceed £4-0-0 per chain.
pg4 Salisbury St	to metal it before the winter. The cost would not exceed £4-0-0 per chain. The estimated cost of forming Salisbury Street from the Wheatly road to Antigua St is £20-0-0.

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Hereford St	To render the west-side of Hereford St passable, the cost incurred will be about £5.00. A calvery will be required at the expense of about £3.10.0.
Colombo St South	Colombo Street South from Lichfield St to Hereford St needs levelling and forming. I do not think the cost of such improvements will succeed £2-00 per chain.
Windmill Road	I regret to say that I am unable to report as to the best mode of draining the block of land situated between the Windmill road and Montreal St
pg5	as I should require an uninterrupted half (1/2) day to take the levels in various directions to any degree of certainty. So much time I cannot afford to any one work until such time as some on is appointed to superintend the works in progress.
Nuisances	<p>The inhabitants of the triangle intend meeting together to devise a means of abating the nuisances complained of. They also intend subscribing to complete the foot path between Sumner road and Cashel St.</p> <p>Mr Money has promised to remove the nuisances at the back of his stables.</p> <p>Mr Wilson (Baker) makes the same promise in regard to his premises in Colombo Street.</p>
pg6 Contract	Mr Egan signed the contracts and had horses and drays on the ground at 8.a.m on Monday Morning.
Cashel St	<p>I would advise that some other contract be accepted on account of the non appearance of Mr.Gimmel.</p> <p>The tender Signed by Mr. Dillion is practically the tender of Mr Gimmel.</p>
Tool House	I estimate roughly the cost of a tool house and wood yard £30-0-0.
Foreman of Works	<p>In pursuance of the instructions of the street committee I enquired for Mr Carson but find he is in the country carrying out a contract for Government.</p> <p>I have the honour to be Gentlemen Yr Obedient Servant Rowland Davies</p>

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Item 3 Pg 7	ChCh. May 12 th 1862 To the Municipal Council
Hereford St	Gentlemen, I have the honor to report as follows. The footpath in Hereford St is formed. The curbing is being constructed and will be ready for erection shortly. The estimated cost of forming and metaling Hereford St from Oxford Terrace to Colombo St is £50,,0,,0.
Cashel St	The time given to Mr Gimmel for performing his contract for the formation ... of Cashel St has terminated.
Durham St	The estimated cost of forming Durham St two chains east from its junction with Peterborough St is £4,,0,,0.
Peterborough St	The inhabitants of Peterborough St are willing to subscribe their share of the cost of forming footpaths and drains there is sufficient fall for surface water and sufficient dirt on the footpaths themselves to fill up the holes therein.
Pg 8 Peterborough St	An estimate of the cost will be forwarded to Messrs Woodman and Marshall (requisitionists).
Hereford St	The inhabitants do not seem willing to pay a share of the expenses of the proposed improvements in Hereford Street West having already laid down tiles and otherwise spent money in altering the street.
Windmill Road	With regard to the drainage of the south end of Montreal St and the block of land between it and the Windmill road I find that the bottom of the gully where the water seems to lie most is 9 inches below the surface of water in Windmill road drain. Whereas it is only 1 inch below water level in Ferry road drain, if this hole were filled up to the present general level of the street there would be a sufficient fall for the water into the Ferry road drain. The cost will be considerably less than the cost of draining to the Windmill road as estimated by the Provincial Engineer.
Pg 9 Colombo St	I have been informed by Mr Ruddenklau who undertook to raise a subscription (£7..14) for the formation of a footpath in Colombo St that he has been unsuccessful in obtaining the full amount.
Sumner Road	Dr Prins states the same with regard to footpath in Sumner road.
Tuam St	The estimated cost of metaling Tuam St, cleaning drains from Antiqua St to Ferry road is £238,,10,,0 (£4.10 per chain).

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Armagh Street	<p>Certain alterations have been made at the instance and with the consent of the street committee in the plans of Armagh St as understood by Messrs Woodman and Wright. They consent to the alterations on condition of the abandonment of drain tiles which are unnecessary as I am informed there is no stream in the gully.</p> <p>I would strongly urge upon the Council the advisability of making the road way from Oxford terrace to Colombo Street at the same time as the road way from Colombo St to Madras St on the score of the economy. I have communicated</p>
Pg10	<p>with Mr Roskrugh and understand from him that he will act as Ganger Storekeeper [etc] at the rate of 9/- per diem wet and dry wages I fear that the voluntary contribution system will not be found to work well.</p>
Voluntary System	<p>The construction of patches of footpaths or roads in various localities can only lead to errors which may cause extra trouble hereafter.</p>
Works set	<p>I am aware that the work done is work in disproportion to the labour employed I am unable myself to give more than an occasional superintendence the appointment of Mr Roskrugh will remedy this.</p> <p>I have the honor to be Gentlemen Yr obedient servant Rowland Davies</p>
Item 4 Pg 11	<p>Ch.Ch May 19th 1862</p> <p>Gentlemen I have the honor to report as follows.</p>
Ganger	<p>Mr Roskrugh has entered upon his duties this day.</p>
Wages	<p>He recommends that a sliding scale of wages [being] from 5 to 7/-, be substituted in lieu of the fiscal rate of 6/- per diem at present in force.</p>
Montreal St	<p>It is the intention of Government to lower Oxford Terrace about 16 inches at its junction with Montreal Street therefore in the formation of Montreal street from Tuam St to oxford terrace there will be a great deal of spare dirt which may be used in the partial formation of the south end of Montreal Street.</p> <p>The works required to render Montreal Street-South passable will cost not-more than £36,,0.0 namely £24,,0,,0 for partial formation or road..</p>

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Pg 12 Montreal Street	and £12,,0,,0 for cutting a drain to meet the Ferry Road drain to take off the water that would be thrown back on to private sections by the aforesaid partial formation of Montreal Street.
Accommodation Road	<p>I beg to bring under the consideration of the Council the following question in the case of an accommodation road leading across the footpath as road drain it will be necessary to have drain tiles laid down is the Municipal Council or are the people using the accommodation road to provide drain tiles on calverts as required.</p> <p>I beg to apologies for the meagreness of this report as I am suffering from an acute attack of neuralgia.</p> <p>I am Gentlemen Yr obedient servant Rowland Davies</p> <p>To the Municipal Council.</p>
Item 5 Pg 13	Ch,,Ch May 15 th 1862
Armagh and Cashel St	Gentlemen I have the honor to submit the following report. The works in Cashel and Armagh streets are commenced and appear to be progressing satisfactorily.
Durham Street	The estimated cost of draining 21 chains in Durham St filling up hollows [etc] is as follows. Draining both sides of road at s/8 per chain £8,,8,,0 Filling up hollow near North end of road £3,,0,,0 Total £11,,8,,... With regard to the hole near the corner of Peterborough St there is no necessity for filling paving [etc] (the cost of paving would be about £13,,0,,0) as the bottom of the hollow is some 2 feet above the level of sink in the Whately Road. To the Municipal Council
Pg 14 Windmill Road	With regard to the drainage of the block of land situated between Montreal St and Windmill road I would beg to defer giving a decided opinion till Monday next as there are several difficulties which require consideration. I have the honor to be Gentlemen

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	Yr obedient servant Rowland Davies
Item 6 Pg 15	Ch,, Ch ,, 26 th May 1862 Gentlemen, I have the honor to report as follows. Very little has been done during the past week in consequence of the severity of the weather. Today the works in Hereford Street (curbing) are in progress. Peterborough St The men are employed in forming Peterborough Street. Durham Street The men were employed during part of last week draining Durham Street. The footpaths will be partially formed as soon as the water has time to run off and the dirt from the drains time to dry. It appears the flow of water is strong opposite Woodman & Wrights and that the inhabitants of that neighbourhood are prepared to pay for a culvert across Peterborough St where it adjoins Durham Street. The cost of the said culvert being about £4,,10,00 Kilmore Street The estimated cost of forming and slightly metalling Kilmore Street...
Pg 16	from Colombo Street to Manchester St, a distance of 12 chains would be as follows, [biz/], forming £3,,15,,0 per chain and for slightly metalling £2,,5,,0 per chain making a total of £72,,0,00
St Asaph Street	The cost of forming St Asaph Street will be about £3,,0,,0 per chain. I would advise that the street be slightly metalled at a cost of about £2.10.0 per chain.
Lichfield and Colombo Street	The removal of Bridge filling Drain and formation of roadway at intersection of Colombo and Lichfield Streets is estimated at a cost of £3,,0,,0. I would suggest that the street from Manns Corner to Lichfield St should be formed and metalled at the same time as the surplus dirt in the mound opposite Mr Reeces would be convenient in carrying out the said improvements.
Tuam St	The cost of reforming and metalling Tuam Street from Montreal St to the Ferry road is estimated at £184,,10,,0.
Cashel St	Cashel Street is formed or nearly so but owing to the heavy rains during the past week it would be useless to metal the road in its present state.

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<p>Item 7 Pg 17 Nuisances</p> <p>10 Surface water</p> <p>11 Labor</p> <p>12 Plant</p>	<p><i>Page missing, no date– writing begins:</i></p> <p>of nuisances ought to inform and there then the Town Surveyor should investigate the matter and enforces its remedy.</p> <p>In draining streets unless the town surveyor has power to carry surface water into the river “pro,tem”– in abating one nuisance he can but create another in some other part of the town. The fall here is so slight that surface water would deposit all in silt sand &c before reaching the river – the drains of course would require periodical cleaning.</p> <p>I do not hesitate to state that in all works where of the estimated cost is in ten pounds (£10) or upwards contract labor is much the more advantageous. It will be necessary to hire men for such small jobs as may not be worth a contractors while to take.</p> <p><i>Side of page deteriorates at this stage:</i></p> <p>Should the Council decide on letting their work be contract no plant will be required xx road gauges pick [shovels] such implements for the use of the town surveyors and such men may from time to time to be ... on trifling works. Should the Council however decide on carrying out their works by hired labor .. obtain from the Provincial Engineers a list of ... stock.</p> <p>I have been unable to obtain any definite and ...from R Gast with xx and to the removal xx from Hagley Park,</p> <p>I regret that my want of local knowledge renders this report less full and satisfactory than I should xx.</p> <p>I have the honor to be Gentlemen Yr Obedient Servant Rowland Davies</p> <p>To the Municipal Board</p>
<p>Item 7 Pg 18 Streets Cashel</p>	<p>ChCh April 28th 1862 Gentlemen I have the honor to report as follows. Tenders have been advertised for the formation &c of Cashel St from the Sumner Road to Manchester St (six chains). Mr Wylde, District Engineer, informs me that the intention of the Provincial Government to reduce the level of Oxford Terrace at its junction with Cashel St for some three feet (3 ft) which will render an alteration in the level of Cashel St an imperative.</p>

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Armagh St	Advertisements are published calling for tenders with a view to the formation of Armagh St.
Hereford St	The water or more correctly the great bulk thereof is removed from Hereford St. I have written to Mr Turner of the Bank of New South Wales with respect to the formation of footpaths in Hereford St extenuating cost at seven pounds fourteen shillings (£7.14) per chain.
Montreal St	<i>Side of page deteriorates at this stage:</i> A gravel pit is being opened in Montreal St for the purpose of supplying road [contributing] the top dirt is being wheeled into a bad hole at the north end of the Montreal St Bridge xx
Bridges Worcester St	The bridge at Worcester St (near Land Office) is xx [need] of repairs at an estimated cost of six pounds (£6.0.0).
Nuisances	It is my intention to inform (after due [consideration]) after Mr Wilmer of the brewery in Cashel St for an [offensive] drain and against the people living in the xx of buildings bounded by the Sumner Road, Colombo and Cashel St (commonly called the Triangle) on account of filthy nuisances [visiting] in the said locality.
Item 8 Pg 19 Cashel St	The contractor (Mr. Eagan) offers to put a lair of fine sand over the road for the purpose of binding the gravel for the sum of £7,,0,,0. I do not think his charge unreasonable.
Colombo St North	I would again urge upon the council the importance of forming and metalling Colombo Street North from Armagh St to the Bridge.
Manchester Street	The estimated cost of forming and slightly metalling Manchester Street from Cashel St near Cookes to Hereford St Six chains at £5,,15,0 per chains making a total of £34,,10,,0.
Streets	I would number Colombo Street Hereford Street Salisbury & Kilmore Streets from their junction with Colombo St to their junction with Manchester St Tuam St and Montreal St as Streets belonging to the first class [biz] streets that must be formed without the aid of voluntary contributions.
Committees Reports	I have already reported upon most of the works and upon all the more important works mentioned in your committees report. Such other works...
Pg 20	as have not been reported upon it would not be wise to commence at this season of the year.

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Levels	<p>I think that the gentlemen of the Municipal Council are scarcely aware of the amount of labour necessary for giving a trust worthy report about the levels of the town of Christchurch.</p> <p>During the past week I have only had an opportunity of taking levels at odd times owing to prevailing wind and rain. I have in preparation sections shewing the levels of the various streets.</p> <p>I have applied to Government but have not received any definite answer as yet with regard to footpaths declared by them.</p> <p>I am Gentlemen Yr obedient servant Rowland Davies Town Surveyor</p>
Item 9 Pg 21	<p>ChCh May 26th 1862</p> <p>Gentlemen I beg to tender my resignation for the following reasons -</p> <p>I understand from the street committee that they are dissatisfied with my mode of carrying out yr works.</p> <p>I feel myself to a certain extent insulted by the fact of my pay sheets being sent back to me.</p> <p>As you have done me the honor to [deed] me yr surveyor I shall of course be happy to attend to the duties of my office till such time as you have appointed a successor.</p> <p>I am Gentlemen Yr obedient servant Rowland Davies Town Surveyor</p> <p>To the Municipal Council ChCh</p>
Item 10 Page 22	<p>ChCh June 2nd 1862</p> <p>Gentlemen I have the honor to report as follows.</p>

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Hereford St	<p>The footpath in Hereford Street is completed at a cost exceeding the estimate as you will see by the abstract – this excess can be accounted for by the fact of there being no regular supervision over men employed or over costs as employed in bringing loam gravel &c hence I believe the cartage and labor bills to be exception[al].</p> <p>I am certain however that the sum of seven pounds fourteen shillings will be found a fair average price.</p>
Cathedral Sq	<p>The footpath north of Cathedral Square is in [progress] of formation and will cost I believe less than the estimated cost of footpaths.</p>
Cashel St	<p>I regret that the bad weather has done much mischief with works in Cashel St – the contractor offers to fill up a bad hole opposite Ladbrookes stables for a sum of £2..10..0. I do not consider the cost excessive.</p>
Armagh St	<p>The works in Armagh St are progressing rapidly taking the late rains into consideration.</p>
Pg 23	<p>As Mr Moore enters upon his office tomorrow it would be interfering with his duties for me to report on prospective works.</p> <p>Gentlemen I have the honor to be Yr Obedient servant Rowland Davies Tn Surveyor</p>
Item 11 Pg 24 and 25	<p>Town Surveyor Office Monday June 9th 1862</p> <p><i>Pencil annotation: Surveyor suggests that road be made at gradual incline.</i></p> <p>Gentlemen In pursuance of your expectations I beg to report as follows.</p>
Colombo St from Armagh St Colombo Bridge	<p>1. The accompanying letter from Brady whose tender for this work was accepted will shew his [availability] to perform his contract.</p>
Salisbury Creek	<p>2. Tenders have been advertised for and will be before the Council this evening.</p>

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Tuam St & Colombo St	3. A temporary arrangement has been made at the junction of these two streets for the accommodation of foot passengers.
Engine House	4. The low ground in front of the engine house has been filled in with gravel.
Painting bridges	5. The state of the weather has been such that I have not commenced painting the Bridges. Mr Wylde has no objections to Papanui Bridge being painted.
Hospital Drain	6. I have been in communication with Messrs Mountford and [Suck] and have arranged with the latter gentlemen to visit the spot.
Carpenters increase in pay	7. I am not able personally to report as to the carpenters but from all I hear on enquiry I should be induced to recommend the addition of 1sh per day.
Cashel St from Manchester to Sumner Road	8. Egan the contractor has finished his contract which I am justified in passing as it is completed according to the specification.
Tuam St from Lincoln Road and part of Montreal	9. The contractors have commenced this work.
Mill Bridge, Colombo St from Cashel to Lichfield St, Manchester St – forming and metalling to St xx Church, Ferry Rd, Tools Estimates, Metal Salisbury St from Manchester to Barbadoes.	10. Up to the present time I have not had time to examine any of these works.
	In conclusion of this report may I beg an interview with the Council this evening.
	I am gentlemen, Yours &c &c Wm Fredk Moore Town Surveyor.

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	<p>The Gentlemen of the Municipal Council &c &c &c Christchurch</p>
Item 12 Page 26	<p>Town Surveyors Office June 11th 1862</p>
Land Office Bridge	<p>Gentlemen, I beg to report as follows – I find on examination that this bridge is not worth any further repairs than those at present carried out.</p>
Footpath Colombo St	<p>This work is commenced half the cost being paid.</p>
Painting bridges	<p>Has been commenced today.</p>
Armagh St & Salisbury St	<p>On an interview with the Council I will explain the arrangements contemplated with the contractors.</p>
Carpenters	<p>Have both left this [morning].</p> <p>I am Gentlemen Yours &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen &c &c Municipal Council Christchurch</p>

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Page 27 and 28	Municipal Council Office June 16th 1862
Flees Creek	Gentlemen, I beg to report as follows – This work is commenced and progressing satisfactorily.
Armagh St from Madras St to Oxford Terrace 5 h 5 [xx] £2.7.6	The contractor for this work have signed a document relative to the necessary alterations to be made in that part of their original contract between Madras Street and Colombo St – the contractors have signed with reference to this work.
Salisbury in addition to old Coast £25.0.0	
Tuam St	With regard to any efforts to repair this street in its present state I am of opinion that it will be waste of time, and money; as it requires entirely remodelling as soon as the weather will permit it.
Colombo St North & South Footpaths	The sections and specifications are prepared for these works. In Colombo Street work will be completed tomorrow. In front of Union Bank work will be at once commenced as well as Colombo St South.
Footpaths Post Office	At the present Post Office on the west side of Colombo St, the footpath has been formed for a distance of 200 links which both from its position in the city, and the necessity of keeping the side all clear. I would [strongly] recommend to be fitted with a skirting board and curb.
Lichfield Streets	I have been in communication with Mr Frederick Thompson concerning the cost of supplying stone curbing but just at present he is unable to give me the necessary information. I have commenced filling in the gully running across the street between Colombo St and Oxford Terrace. I am, Gentlemen, Yours &c &c Wm Fredk Moore

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	<p>Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c Christchurch</p>
Page 29-31	<p>June 23rd 1862 ChCh</p> <p>Gentlemen, I beg to report as follows.</p>
Viz contracts Tuam St West & Montreal St	<p>This work is completed in a satisfactory manner and according to the specifications.</p>
Tool house & yard	<p>Are completed with a slight difference to the specifications which I considered inaccurate immaterial I passed the work.</p>
Armagh St Salisbury St & Du Creek	<p>Several times during the week I have visited these works. They are progressing satisfactorily.</p>
Colombo St North & South	<p>Tenders will be before the Council this evening for these works.</p>
Mr Egans contract for Horse and Dray hire.	<p>I have received a report from the following concerning the <u>very unsatisfactory manner</u> in which the Drivers perform their work. The Drays are constantly without tail boards - the Drivers as a rule will not assist in the following which they should do – the carts do not take a proper load. In fact that the terms of the contract are not performed in a proper manner of such that are made that I am acquainted with a list accompanies this report.</p>
Footpaths	<p>In front of the Union Bank have not been commenced as further subscriptions to complete the same as required by the Council were not forthcoming.</p>
In Hereford St	<p>Captain Western's path is completed. Mr Fuller's also.</p>
Lichfield St	<p>Mr Wylde Dis[trict] Eng[ineer] has [written] to me several times [relating] to filling in a hollow in the road by his garden fence in this street. I have [xx] for the sanction of the Council for the</p>

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Date Range: April 1862-June 1863

Transcription:

	<p>expenses necessary as it is [xx] work that I considered would be only advantageous for private inconvenience and were I to [accept] works of this description in one case I have no doubt but that I should have [numerous] applications of a similar nature.</p>
Town Belt North Gravel Pit	<p>The road xx has been made passable for the required distance xx a width of 14 feet [xx].</p> <p>In consequence of the scarcity of metal I have opened another pit [xx] to Cathedral Square with a view of ascertaining the quantity & quality of the gravel. I request permission from the Council to open a regular pit. The position being central is so far decidedly good.</p>
Carpenters	<p>With regard to carpenters I have had some considerable trouble and to carry out the works up to this time I have given to the two now employed 5sh per day whilst engaged at their trade and labourer's wages where not.</p>
Hereford St & Manchester St from Cambridge Terrace to St Lukes Church.	<p>Tenders for the portions of these streets will be advertised for the next sitting of the Council.</p> <p>I am, Gentlemen, Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 15 Page 32-35	<p>Christchurch June 30th 1862</p>
Viz Egan's Bill	<p>Gentlemen, I beg to report as follows.</p> <p>In reference to this bill I can only state that I hold the foreman responsible for a correct return of the "times" the various men, cart &c are employed upon the works. He assures me that on the Thursday in question, he, the previous night distinctly gave the carters to understand they would not be required the following day. Under these circumstances I do not consider that the contractor is entitled to any payment for that day. The foreman also states that on Thursday morn[ing] he saw Egan & told him that he did not require the carts and when spoken to said he did not even know his men had gone to the gravel pit.</p>

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Salisbury Creek	I have been over the whole of this part of the town and as a preparatory step towards the permanent draining I would recommend that the creek be cleared as far as Mr Miles property and beyond to the East side of Manchester Street I find that some section holders are endeavouring to drain their land which would be much better facilitated by the fuller clearing of the creek [and at the] same time would [assist] in draining the North/South. The increased distance would be six chains which Newcombe the present contractor is willing to clean at the [same] rate (£1.10 per chain).
Gravel Pit	In consequence of the quality of [sand] to be moved in opening the pit, being [considerably] more that I was led to believe and from the day [hence] being engaged just at present on various works that were being required above I beg to support that a sum of £3 be given to the contractor for such removal.
Cramner Square	The culvert for Mr [xx] is completed.
Durham Road	The residents in this street [Durham Road are private property between Montreal and Durham Street] have made an application to have it metalled and expressed their willingness to pay half the expense - the cost would be about £35-
Footpaths	In consequence of the 'Cart Difficulty' Captain Western's footpaths not yet completed. The one in Cashel Street in front of the Union Bank &c is in progress.
Hereford St	Tenders will be before the Council next Monday.
Drainage	I have commenced opening the drains for the South East portion of the town.
Montreal St	<p>In consequence of the great of quantity of water laying on the ground and in the street I have been unable to take the necessary levels to ascertain the best method of draining this portion of the town. I propose commencing tomorrow morning & have prepared to lay before the Council at their next sitting what method will be the best to drain this street and the surrounding sections.</p> <p>During the last rains the street has been in a thoroughly impassible state and it has come to my knowledge that on one night last wk a [horse cart] got so far in the water laying in the street as to be compelled to call for assistance to get out.</p> <p>I am Gentlemen, Yours &c &c &c</p>

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	<p>Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Page 36	<p>[News!] June 30th 1862 ChCh</p> <p><i>Side note: News Sept 1862 – Since this estimate was made Mr has offered to supply curbing, paving – stones and broken. Stone for metal also much more reasonable rate and equal quality.</i></p> <p>Expense of stone curbing delivered as required in Christchurch scabbled and ready to be placed at once. At per chain £7.0.3 At per foot £ .2.0 ¾</p> <p>Expense of wood curbing above as formed at present without carpenters labor, nails etc etc. The wood delivered in the yard <u>not</u> on the spot where required for curbing. At per chain £4.4.0 At per foot £ .1. 3 ½</p> <p>By using stone, a good proper sized and permanent curb is formed. Now it is indisputable that the side gutters must be [spaced], and that to, before long the curb must be of stone eventually. The accompanying sketches shews on the left side a section of what I consider must in course of time be the plan adopted in the permanent construction of the streets. I have drawn the side drain 3 feet 2 h" or perhaps a little less might suffice to carry off the water.</p>
Pg 37	<p>The present wood curb and skirting board will not last particularly the latter more than three or four years at most and in the way it is now laid down cannot be kept at a correct level above the side drains since the curb being h" x 3" & skirting board 8" x 3" its whole depth is only 11" instead on 18". It would therefore be necessary is order to make a complete and proper work to have and additional skirting of 7" x 3" which would bring the cost of wood required for the whole above to close £6 only £1 less than the cost of stone delivered and ready to "place" above.</p>

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	<p>From which I have now stated and other circumstances I cannot <u>too</u> strongly recommend to the Council that no more wood curbing be put down. But that stone on all occasions should be used as soon as the supply can be obtained (which will be seen by the accompanying letter from A and N Ellis and also that curbage & footpaths are not made either piece by piece or until the proper levels of the street are obtained so that the work <u>once more may be proceeded</u>.</p> <p><i>Sketches</i></p> <p>Fredk Moore</p>
Page 39	<p>Kaiapoi, June 25th 1862</p> <p>Sir,</p> <p>We beg to inform you that we are prepared to deliver to Christchurch (delivery not to commence until after the first of September next) any quantity of Curb Stone from the Hoon Hay, Grey Stone Quarry that may be required by the Municipality, in irregular lengths not exceeding Five nor less than Two feet; each stone to be scabbled straight and square at the ends and on the upper outer surfaces – and to be pitched straight on the upper edge of the inner side – at Two Shillings and nine pence per cubic foot.</p> <p>We have stated the price as per Cube Foot to enable you to vary the depth of the Stone as it may be required by circumstances –</p> <p>We are, Sir Your very obedient servants A & N Ellis</p> <p>Mr F Moore Esq Town Surveyor</p>
Item 17 Page 41	<p>On the Cross Section of Roads</p> <p>The form of cross sections is one of great importance and one upon which so much difference of opinion exists. I once recommended a considerable curvature in the upper surface of the road with a view of facilitating the drainage of the surface while others are adverse to a road being much curved. It must I should think be obvious to all that the only advantage of giving a high crown to a road would be to allow the water to drain freely with the side drains of the road though some imagine that from people generally using the center of the road it becomes sooner worse through. I imagine that the only reason is from the increased curvations of the road the center is the only part where the vehicle can move horizontally which, were the road bed slightly curved every portion would be equally worn. The celebrated Mr McAdam [<i>John</i></p>

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	<p><i>Loudan McAdam</i>] when giving his advice before the House of Commons stated “I consider a road should be as flat as possible with regard to allowing the water to drain off it at all because a carriage ought to stand upright in travelling as much as possible. I have generally made roads three inches higher in the center than I have</p>
Page 42	<p>at the sides when eighteen feet wide. If the road be smooth and well made the water will [run] off being easily on such a slope.” I also agree with him that water actually stands upon a very convex road than on one that is reasonably flat. The over rounding of roads is also impervious by confining heavy carriages to one track in the curve of the road or it they go upon the sides by the greater wear they produce from their constant tendency to move down the inclined plane owing to the angle which to the surface of the road and the line of gravity of the load from with each other & since this tendency is perpendicular to the line of draught the labor of the horse & the wear of the carriage which are both much increased by it. Hence the only advantages of rounding the road at all is the drawing the surface water off but I consider this to be only imperfectly done from the roughness wheel tracks etc and even in the bad roads & I am of opinion that the surface is much more effectively drained by a slight undulation in the road xx where every wheel track becomes...</p>
Page 43	<p>itself a channel for carrying off the water more effectively than can be done by a curvature in the road. I do not wish it to be understood that I consider a road should be too flat but that a small a crown should be fixed as is consistent say 9” in 46 feet the center 6ft to be curved with a radius of 90 ft the sides to each have an inclination of 1 in 30. I consider that the “formation road” should be the same xx section as the road work where metalled in that the surfaces should be parallel. I can see <u>no</u> advantage derived from spreading metal thick in the centre of the road than on the sides. If equal labor and materials be used over the whole road it is evident that the wear & tear will be more uniform. I may add a few words about gravel for metalling. Where it is used it is better to have too much foreign [water/metal] mixed with it than too little & more for were it increased it is correct that many of the stones need be [crushed] to powder before they can be of any assistance in building the rest. If the road be covered with angular stones there is no need of any bxxling matter. It requires more force to</p>
	<p>[move] a lot: once gravel xx than broken stones or paved surfaces us requires 147 xx to move 1 ton – with a gradient of 1 in 15.</p> <p>To h5 - to move 1 ton broken stone 1 in 34 gradient. 33 “ “ paved 1 in 68.</p> <p>Wm Fredk Moore Town Surveyor.</p>

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Date Range: April 1862-June 1863

Transcription:

Item 18 Page 45	Christchurch July 7th 1862
Gravel Pit	Gentlemen; I beg to inform as follows: In consequence of the quantity of gravel required for the various works in progress It will be necessary to open another gravel pit which I recommend should be in Manchester Sheet between Gloucester St & the Avon.
Montreal St South	With regard to the drainage of this part of the town I recommend that the Council should sanction the clearing out of the existing drains by hired labor as speedily as possible to get rid of the surface water and that this is done as a primary step towards the permanent drainage of Montreal St: & the acquiring sections of the eventual course of the Main South Drain will have to be altered and discharge its water...
Page 46	into a creek whose outfall in the River Heathcote.
Salisbury	The contractor has nearly finished this work up to the Bridge in Salisbury St in reference to the continuation as recommended in my last report. I am under the impressions that the council did not fully understand of this work. It being the main drainage of street portion of the town I beg to bring the subject again before the notice of the Council. I am Gentlemen, Yours &c &c &c Wm Fredk Moore Town Surveyor. The Gentlemen Of the Municipal Council &c &c &c Christchurch
Item 19 Page 47	Christchurch July 7th 1862
Drainage	Gentlemen, I beg to report as follows: This work, as far as Lichfield St from Ferry Road to Barbadoes St; thence to Ferry Road again and met by Tuam Sheet drain is completed. And with the exception of the water standing in

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	<p>deep gullies and ditches cut by private individuals carries the surface water well off to the Ferry Road drain</p> <p>Those of East Town Belt, and other sheets running East, and West are being rapidly proceeded with. The necessary drains in and about Montreal Street South are being cleared &c. and the surface water is quickly running off.</p> <p>The drain in Salisbury Street between Colombo, and Manchester Street will he commenced tomorrow morn.</p>
Lighting in the City	Tenders for the lamps &c &c have not been advertised for requiring some further information on the subject.
Footpaths	In Colombo Street South will be commenced in a day, or two the contractors will have by that time completed their work.
Page 48 Gravel Pit	In consequence of the quantities of Water accumulating in the pits I recommend that the Council will permit me to have constructed a Californian Pump the cost of which would be about £3 to £3:10.
Montreal from Papanui to River Avon	In order to give a correct estimate of the formation metalling &c I should find it necessary to draw out a correct section. I think the probable cost would be about £8 per chain.
Latimer Sq	A cricket ground is being fenced
Contracts	On visiting the different works in the hands of contractors I have found they are proceeding favourably, though that part of Salisbury Street being metalled with only 12 yd Cube pr chain, is not, & will not be without a further lay of gravel in a state to presume its formation or I think be in a new passible condition and I think that without a further quantity present being added a much ...
Page 49	<p>further eventual outlay will have to be incurred.</p> <p>I am Gentlemen, Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen</p>

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	Of the Municipal Council &c &c &c Christchurch
Item 20 Page 50	Christchurch July 21st 1862
Closing Streets	Gentlemen, I beg to report as follows: In consequence of the total impassibility which exists of contractors carryings out their works where there is traffic in the streets where they are at work I request the Council will give me discretionary powers in this, and similar cases. I may say I have closed Colombo St Bridge since Saturday.
Montreal Street	From the bad state of this street between the bridge and the gravel pit which latter is now very nearly run out I should recommend the formation of this street from R Avons to Cramner Square cost at £7 per chain.
Madras Street	As the Bridge in this street over the Avon will shortly be put up and as its beging made is essential to the drainage of Latimer Square I would recommend that portion laying between the above tw places to be at once made.
Salisbury Creek	The clearing of this <u>most important main</u> drain is completed according to specification in a very workmanlike manner.
Page 51	I have measured its depth and passed it.
Salisbury St	This work is completed from Papanui Road to Antiqua Street according to the specifications though the work is well done presents from the small quantity of metal but a poor appearance.
Lamps	I have advertised for tenders for Lamps and Burners. The Lamps being only for the Bridges. I will find the posts top. As I do not consider these worth a contract.
Oxford Terrace	I will lay before the Council a specification for the work to be done and a tender from "Robertson" to perform the work. I may add that the acceptance of this offer is recommended by Mr Wilson to whom I take this opportunity of thanking for the information he kindly afforded me on the subject.
Armagh St	Forming & metalling from R Avon to R Avon about £190.

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Gravel Pit	Being unable in consequence of water to get a gravel put open in Manchester St...
Page 52	<p>I beg permission to open a pit in Antigua Street or the vicinity & also another in Cathedral Square. I should support a small drain on the West Side of Colombo St to be cut to relieve the street.</p> <p>I am Gentlemen, Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 21 Page 53	<p>Town Surveyors Office July 28th 1862</p> <p>Gentlemen, I beg to report as follows.</p>
Colombo St South	This contract is completed and I have passed it. From some misunderstanding the contractors have metalled with 30 yds per chain instead of 20, as stated in the specification. As this was done after the resolution passed by the Council that 30 yds should be used, & also that the street required it I trust the Council will pay for the extra 10 yds per chain.
The contractors ask 3 sh per yd.	
Foreman	In consequence of Mr Raskew having been drunk on Thursday afternoon (3pm) I, on Friday, suspended him from work, and leave the matter in the hands of the Council.
Montreal St	The weather having been too wet and unsettled I have substituted Montreal Streets for Lichfield St for this nights tenders.
Gravel	I have been in conversation with the Gov.t respecting our obtaining gravel from the Public works of the City & have obtained permission on consideration of filling in the pits when done with from the Gov.t Domain.
Armagh St	The formation of this street from Madras Street to Colombo St is completed & the metalling being continued but only 20 yds per chain.

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Page 54 Footpaths	I have not commenced the footpaths in the Ferry Road in consequence of the Drainage there not being completed. The list of those already formed has been sent to the Government for publication in the Gazette.
Durhan St from Papanui Road to R Avon.	The Government are anxious to have this street formed and are willing to pay half the expense.
Chains in Cathedral Square	I wish to call the attendance of the Council to the state of these chains several of which are broken away from the posts and are hanging about. I think the best plan will be to remove them altogether.
Salisbury Creek	In passing in the Bill last week on the completion of this work. I am sorry to say I made an error in the [number] of chains which should have been 25.50 instead of 24.50 which therefore leaves a balance of £1.10sh owing to the Newcombe.
Lamps	<p>The tenders will be before the Council this Evening and Mr Tomkins in attendance to meet the Council if they wish it.</p> <p>I am Gentlemen, Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 22 Page 55	<p>Town Surveyors Office August 4th 1862</p> <p>Gentlemen, I beg to report as follows.</p>
Cathedral Sq	The chains have been removed.

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Manchester Street South	<p>It appears that there is a natural water course which crosses this street at its junction with St Asaph's Street, and thence across Tuam Street under where Mr Dobson's house is; by a culvert under the Ferry Road, through Mr Rules yard, and diagonally across a large garden section to the junction of Madras Street & the Ferry Road. A portion of the gully is now filled up, and the culvert which used to go under Tuam Street has been removed causing the rainfall &c to assemble in Manchester St: - It having now been determined to put a covered drain down the west side of Sumner Rd will of course run off the water flow from the sections between that Rd & Madras Street.</p> <p>And by deepening the present ditch on the west side of Manchester Street the great bulk of water at present accumulated there would run down...</p>
Page 56	<p>into the Main South Drain. Cost £6.10.</p>
Xx Oxford Terrace	<p>That portion of Oxford Terrace between the Land Office Bridge and Papanui Bridge. The bank, the only protection up to the present time afforded to the River side of this Street has been removed by the Prov. Govt is absolutely dangerous and requires fencing cost.</p>
Footpath Colombo St South	<p>The sum of £4.7.11 has been paid for the formation of a footpath from [Ellials] to Cashel that on the East side of this street being half the cost.</p>
Ferry Rd	<p>I am waiting the completion of the covered drain on the West side before I can commence this work.</p>
Pump	<p>In my report some weeks ago I mentioned the necessity of our having a California Pump for the gravel pits. The Council were about to sanction my getting one. When told there that there were two in the Public Works which however on enquiry I found to be large horse pumps...</p>
Page 57	<p>totally unfit for the purpose required. I have got one put in hand it being indispensable. Cost about £6.10.</p>
P.D Land Timber	<p>Mssrs Montgomery & [Todhunter] have just received a cargo of [V]. D. L. Timber, ex [Mld Ware] of which I have made the following selections</p> <p>535 -6" x 3" == 17 ft long - 21 pieces 30 ---4" x 3" - 20 ft long - 1 " 39 -- 6" x 3" - 26 ft long --" 130 -- 3" x 2" - 20 ft long 13 " - 1584 -- 6" x 2" - 12 ft long 132--"</p> <hr/> <p>2318 Total No of Feet to be supplied at a price of 27/- for 100 feet.</p>

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	<p>We are at present paying an exorbitant price for timber & I would support that the above be ordered, and stacked in our own yard. With the exception of the 3" x 2" we can get any further quantity at the same rate.</p>
Drainage of Colombo St South	<p>Mr Fisher makes a proposal to pay £3 half the estimated cost of a drain on the East side of Durham Street from the gully that was across the street from the main drain.</p>
Gravel for Domain	<p>I have visited the Domain in company with Mr Wylds and taken a portion from which gravel is</p>
Page 58	<p>to be obtained for Town purposes it necessitates the alteration of the present line of fence the expense of which will be £6 half of which the Prov Govt will pay the other I solicit the Council to [present].</p>
Tenders for Cashel St & c & c Lichfield St	<p>In consequence of the heavy rains last week I have deferred the tenders for these works for one week it being quite impossible they could be commenced. And the experience I have had with Colombo St South has confirmed my opinion of the error of commencing works before we have some hopes of more settled weather.</p> <p>I am Gentlemen Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 23 Page 59	<p>Town Surveyors Office Christchurch August 11th 1862</p> <p>Gentlemen, I beg to report as follows.</p>
Armagh St	<p>I have made the necessary arrangements with the contractors to put an additional 10 yds [cube] of gravel upon this street at the price of 3s 6 per yd.</p>
Side ditch drains Ferry Rd	<p>From what I have seen of these drains I am of the opinion that they are not capable of taking the water from the town in times of a heavy rain fall. But with regard to what alterations will be necessary both here and in the Great South Drain I am not at present prepared to lay before the Council.</p>

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Footpaths	The Colombo St South on the East side is in progress. Nothing having been done on the West side of the Ferry Road between Lichfield Street and St Asaph Street the footpath is not commenced.
Oxford Terrace	Planting Oxford Terrace is completed 541 trees being planted instead of 650 the cost being £13.10.6 at 6[@] per tree.
Tenders	For Lichfield, Manchester & Cashel Streets will be before the Council this evening.
Smaller wks	The men are getting on with these such as the footpath in Manchester St, the drainage [Colombo] &c &c as fast as possible.
Page 60 Lanterns &c	The posts are up on Papanui Bridge, and the Lanterns will be ready to be lighted as soon as required (when moonlight ends).
Pump	<p>The Californian Pump has been working and I find answers exceedingly well and will be of great benefit for the future.</p> <p>I am Gentlemen Yours &c &c &c Wm Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 24 Page 61	<p>Town Surveyors Office Christchurch August 11th 1862</p> <p>Gentlemen, I beg to report as follows.</p>
Footpaths Colombo St South	The footpath in Colombo St South is completed. With an additional length in front of Messrs Smith Jones & Hughes in Cashel Street, they having paid in £5-12 being half the estimated cost.
Salisbury St	On the north side is being made.

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Date Range: April 1862-June 1863

Transcription:

Ferry Road	This work is being proceeded with. I will lay before the Council a plan shewing the method to be adopted. The [Government] will put a culvert in across Tuam St the whole length which will be 100 feet.
Ferry Rd Drain	<p>As stated in my last report the drain on the South Side of the Ferry Road under circumstances of and ordinary rainfall is sufficient to take the water away from the town but in cases of being heavy rain and Freshets it does not take the water away quickly enough. From the levels of the surrounding ground it is impossible to relieve the drain of the water from the South portion of the town. The swampy basin just outside the South East part of the town lay considerably lower than the bed of Wilsons Creek and to take the South drain to the Heathcote would entail a very heavy cutting of between 9- & 10 feet.</p> <p>The drainage might be taken along the East Town Belt into the River Avon this however is not to be recommended for in addition to the extra expense this work would cause it would fall into the Avon a long distance above ...</p>
Page 62	where the confluence of the tide is felt. The plan I would recommend is to convert the present drain into a "covered drain" for a distance of about 2000 links outside the xx. I am not at present prepared to give an estimate of this work. But if it is approved by the Provincial Engineer the Government should pay at least half the expense.
Kerosine	I cannot recommend Kerosine this or any other mineral x to use permanently in lighting the City of ChCh and am of decided opinion that "gas" should be used. Beyond coming to this conclusion I have not had to go further into the matter.
Cashel St Culvert	In front of Mr Khiver's [Kiver] has been put down. He finding the culvert with regards to them (culverts formed on to private property) generally I think that the owners of sections who with a road way on to their premises should either put in the culvert and draw the gravel themselves – under the supervision of the Town Surveyor or a person appointed by him - or – Should pay £3.10s to have it done by the men employed by the M. Council.
Culverts on to sections	
Verandahs	I think that those persons who have verandahs at present standing in front of their house on Public ways might be permissable to retain them but that in future they should have to xx verandahs with posts to "ship...
Page 63	and "unship" from boxholes let into the footpath inside the wooden kerb the same to be filled with a plug when the posts are not wanted.
Durham St Mr Fisher	This wk is completed. Mr Fisher will have to pay £2.10 half the cost.

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Date Range: April 1862-June 1863

Transcription:

Cashel St	From Sumner Rd to Oxford Terrace requires entirely new modelled being a great deal too high. This street shews one of the great disadvantages of not metalling a street all over the sides where no metal was put being in many places little better than a swamp in wet weather and must be very unhealthy. The cost should not exceed £5 per chain.
Latimer Square Mr Boulton <i>To be done as suggested</i> <i>Surveyor to make further enquiry & report</i>	<p>The drainage of the East side of Latimer Square is completed. Mr Boulton will have to pay 10.0.0. He is anxious to have the footpath made up by the fence in front of his house (facing Latimer Square) a distance of five chains (500 links). I would suggest his being allowed to do so. Taking the muck from a place I would point out.</p> <p>I have not had time to go much into the subject of relative cost of getting gravel from the town or from a distance but I imagine the latter would more than doable. The cost of the former were it necessary to cart any metal from a distance a considerable main saving would be effected by getting some description of hard broken stone instead of using gravel obtained near at hand for the sake of economy.</p>
Page 64 Cashel St East	The contractors being at present engaged in the formation and metalling of this street from Manchester St to Barbadoes. I would suggest to the Council the desirability of putting on additional 10 yds cube of gravel between Sumner Rd & Manchester St. The dist. Is 600 links.
Salisbury Creek	The weather being now fine. It would be desirable to alter the course of this creek and take it straight across Manchester Street. Newcombe has made an offer to complete the work at the rate of 8@ - per yd cube. There are about 50 yds this is a work which must be done before the formation of this street is proceeded with.
Salisbury St Drain	<p>I am unable to report fully upon this street it being necessary to have a plan &c before doing so which I have not had time to do.</p> <p>I cannot conclude this report without bringing before the Council the real necessity that exists for an increase of their staff. I find it quite impossible to carry on the whole of the works – contracts, nuisances &c &c &c &c &c &c to say nothing of plotting work, xx, drawing, estimates, considerations, keeping the books written up and all the rest of the office work alone! Although instead of working the regular office hours (from 10am to 4pm) I am on an average engaged thoroughly for 12 hours per day and even then I find I have not time to look after...</p>
Page 65	<p>the various duties to have to perform in a way I could wish.</p> <p>I am Gentlemen Yours &c &c &c Wm Fredk Moore Town Surveyor.</p>

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Date Range: April 1862-June 1863

Transcription:

	<p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
<p>Item 25 Page 66</p> <p>Footpaths &c &c</p> <p>Contractor F McCann [Felix McCann]</p> <p><i>Monday 12 noon I am given to understand he has since absconded W.F. M</i></p>	<p>Town Surveyors Office Christchurch August 25th 1862</p> <p>Gentlemen,</p> <p>I beg to report as follows. I have received an answer from the Provincial Engineers on the subjects mentioned by the Council last week in which he states that 4.6" in the least depth to be given to the side channels. The letter accompanies this report.</p> <p>I am sorry to have to bring under the notice of the Council the proceedings of F McCann who at present has the contract for a portion of Lichfield Street.</p> <p>It appears that when he was metalling Hereford St he took advantage of the confidence reposed in him by quarrying, carting, and selling the gravel taken from the pit now open to a great extent in open defiance and pure contempt not only of the orders from myself as a responsible agent of the Municipal Council but also of the Residents Magistrates Court before which I summoned him, and not wishing to do serious blighting (?) to his character did not press my charge. On the same day after being fined he again took gravel from the pit depositing the same on the private...</p>
<p>Page 67</p> <p>Colombo St North</p> <p>Manchester Street North</p> <p>Gloucester St</p>	<p>property of Capt Westenra. He also sold Mr Williams (solicitor) 20 loads for his private property.</p> <p>I have to request permission from the Council to engage the services of Mr Travis the M. Council's legal advisor to prosecute in this matter.</p> <p>This contract is now completed and the contractors are entitled to the balance of and due – amount due £11-0-0.</p> <p>This work is completed for a distance of 100 links at £7.15s per chain. Total amnt £54.5.</p> <p>The Council have sanctioned the formation and metalling of this street from Colombo St to Manchester Street. Might I suggest the additional distance to Latimer Square. I can hardly give</p>

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Armagh St (see last report also)	an exact estimate of what this & other contemplated wks will cost as I find that so many men are going to the gold diggings in Dunedin the price of labour will be raised. Armagh Street is completed the gravel pit opened in that street it will I think be advisable to keep open there being a deep face of very good metal.
Explain Contractor Cashel	I have not made any arrangements yet with...
Page 68	the contractors for Cashel Street thinking the Council did not quite understand that in addition to the extra 10 yds of gravel some little amt of labor will be required to remove & lower the present crown of the Road which is too high.
Public Pound	It is most desirable that the Pound should be moved from its present position. The difficulty arises where to place it. I think that the Council should either purchase a portion of land in two or three places in the city on the outskirts and have a pound on each, or an arrangement might be made with some of the small farmers just outside the Belts who would allow the yards to be put on their property taking the fines as payment for the same.
Bye Laws	I should not be doing right were I not to bring before the Council the necessity which exists for their passing Bye Laws on which the police would be enabled to act in various cases particularly with regard to the Sanitary condition of the town. For example at present there exists no law which compels persons to remove nuisances which may exist in front of their premises from the fact of their being no proof as to who created them.
Page 69 Colombo St North	The portion of this street that has only been metalled with 20 yds cube would be greatly improved of 10 yds Cube more Mr Chisnell who had the contract for this work will agree to put the extra 10 yds at 3sh per yard cube.
Gravel	From all the enquiries I have been able to make I find that it would be impossible to get gravel brought into the Town under 9s to 10s per yard cube.
Hereford	I also fixed that to purchase land with gravel in it would at about £80 to 100 per acre; and that six miles from the City.
Armagh Street	I have not passed in the remainder of this contractors money. He not being here and not having rept his wk in proper order. With the exception of the length of this work where the gravel put is open I have passed the sum which it accounts as follows:

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Transcription:

	<p>Original Contract £171.0.0 Footpaths 30.0.0 30 yds cube at 1s.6@ per yd – bought into the yd £76.0.0 10 yds additional gravel (whole distance) at 3s.6 £49.17.6 £326.17.6 Deduct length of 3.30 for gravel pit £301.0.6 Deduct Cash pd £190.7.6 Balance due £102.13.0</p> <p>I am Gentlemen Yrs &c &c &c W Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Page 70 Footpaths	<p>P.S. I have received from Mr Barnett the sum of £27.4.10 for the footpath in the Ferry Road between Tuam & St Asaph Streets on the South West side. Several applications have been made to me to have a stone kerbing put down in Lichfield Streets. The applicant paying half the expense. Is it the wish of the Council that this & similar works should be carried out?</p>
Verandah's	<p>I will preface and lay before the Council a design on Monday next.</p>
Extra Assistance	<p>In conformity with the resolution passed last Monday by the Council I have engaged the services of Mr Davies temporarily as a salary of 10sh per diem. I am employing him principally in the suppression of nuisances.</p> <p>W Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>

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Date Range: April 1862-June 1863

Transcription:

Item 26 Page 71	<p>Town of Christchurch Office of Public Works ChCh Augt 20 1862</p> <p>Sir In reply to your questions respecting footpaths in the town, I will endeavour to state my views as concisely as possible.</p> <p>If the rainfall is to be draining from the sections it must be done either by covered drains or by open gutters.</p> <p>You have not at present the means of making covered drains and I doubt whether except at an enormous expense they could be made large enough to carry off the heavy rainfall. They would be likely to burst with the upward [purpose] in sudden rains and to become choked with filth in the dry season.</p> <p>You have no resource at present except to use open gutters. The least depth that you can give them is 18" below the general level of the ground if they are to drain...</p>
Page 72	<p>the surface properly. The floors of the houses should not be lower than 8" <u>above</u> the general ground level.</p> <p>You thus have 18" x 8" = 26.2" (?) difference of level between your floor line and the bottom of the gutter.</p> <p>The question next comes where is the level of the footpath to be fixed. I should be inclined to make it 7" below the floor line with a fall of 5" – making the top of the footpath curb 14" above the bottom of the gutter. At the croppings of the streets put small iron bridges as is done at Melbourne w stone slabs which would bring the height of the step to 6".</p> <p>In a heavy rain these bridges would be flooded for a few hours but this is a matter of little moment. If your curb is too low the water in heavy rains will overflow the footpaths.</p>
Page 73	<p>If any private party wants a gateway I consider the best plan is to make an inclined plane from the gutter to the ground line, returning the curb on each side of the gateway.</p> <p>I shall be very glad to reply to any further questions if you consider my opinion on these matters of any service and have the honour to remain.</p> <p>Sir Your Obedt Sevt WFMoore</p>

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Date Range: April 1862-June 1863

Transcription:

Item 27 Page 74	Town Surveyors Office Sept 8 th 1862
R Avon	Gentlemen, I beg to report, as follows: Cutting the cress from the River through the town is completed and in addition to clearing the stream has lowered the water considerably.
Messrs Aikman & Co	I cannot fail again to bring under the notice of the Council the desirability of fencing that part of the River from the Gloucester St Suspension Bridge, as far as Armagh Street – or at any rate that portion where the road runs so near the River as to be <u>decidedly dangerous</u> .
Footpaths	I have received the accompanying letter from Messrs Aikman and Knight Timber Merchants which will speak for itself. Although the matter has not been before the Council - being in want of timber to continue the footpaths I sent the order for it thence.
Page 75 Footpaths	The Pro. Govt having put in the culvert across Tuam Street this work is being proceeded with and will soon be completed. Messrs Wilson and Aikman having paid the usual share of estimated cost of a footpath part in Cashel St & part in High St. The work was commenced and is completed.
Page 76	I must again bring under the consideration of the Council the absolute necessity which exists for either additional powers in the Mun. Co. orders – Bye-Laws or some means to prevent effectuality existing nuisances such as cesspools, pig styes, stables, dung heaps and many other things that could be mentioned. I have great pleasure in stating that a little has been done. I say little by comparison with the requirements. The hot weather is now settling in, and situated, as the Council now is, I, with others have I fear a sickly season. I may mention that although two sanitary com have xx the main object has apparently been left out, as either too simple, or too difficult a matter to cope with. I refer to house drainage, slops, xx, the refuse of Kitchens &c. This is a matter of vast importance where I beg to remind the Council that the City of Christchurch
Montreal St	is to be drained by surface drainage alone. On these and other matters I will, should the Council wish, report further.
Cashel St & Manchester St	The portion of this street under contract is proceeding rapidly and will make a fine street. The contracts work to draw £50 to which by the acct of work done they are entailed. The former is proceeding well, and the latter completed with the exception of spreading a portion of the gravel the same contractors have both works & wish for £100.

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Transcription:

Water Carts	The dry weather having come the streets are very dusty from the quantity of sand &c. I consider it highly desirable that they should be watered. The layer of proportions of newly metalled streets and therefore greater quantity of dust than heretofore will in case of the high winds I understand are prevalent at this season of the year render the City most disagreeable in addition to which watering thence will materially assist in keeping them in repair beside the sanitary benefit derived. The cost would be including horses £200 for two
Page 77 Water carts	carts suitable for the purpose which when not so employed could always be used on the works going on under the Council.
Verandahs	It is most imperative that the Council come to a Resolution relative to the nature & form of verandah's that are to be generally adopted. Daily applications are being made from persons wishing to put them up.
Depth Road Drains	I have prepared and will lay before the Council the cross section of Road & Footpath the Council wished to be prepared.
Lamps	This evening a tender from Mr Tompkins will be before the Council for continuing to light the lamps on Papanui Bridge his present contract expires next Monday. This is occasioned by the necessity of his using layer [Bliman] viz 1 1/2".
Water Supply	Seeing by a resolution the Sub Sanitary Committee report has with some alterations been adopted may I suggest to the Council the benefit that will be derived by taking immediate steps for commencing the boring in the place suggested by them. I would also suggest that a trough by placed at the present pump opposite Messrs Ollivers (sp).
Page 78 Mr Pavitt	Has now been five weeks in the employment of the Municipal Council, as Foreman of Works. He has discharged his duty to my entire satisfaction.
Mr Dennis	From Wednesday next I have dispensed with the temporary services of Mr Dennis.
Hereford Street	I may suggest that the balance due on this contract be paid to the Bank of New Zealand.
Lichfield Street	I have been in communication with the [smitees] of the late contractor Felix McCann. They have undertaken to complete the work which is now progressing.
Office	I cannot conclude this report without bringing under the notice of the Council the <u>inadequacy</u> of the present office accommodation which is <u>totally unfit</u> for the growing increase of business for the city.
Colombo St South	

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Mill Bridge	<p>The pipes originally laid down in this street have been taken up they are fine pipes but I am sorry to say very much broken.</p> <p>I find I will be obliged tomorrow to write to...</p>
Page 79	<p>Mr Inwood relative to the state of the bridge from the mill to the West Side of the River Avon the whole of the first tier of piles are undermined and rest upon nothing. Swaying up and down with the slightest weight I fancy the piles could not have been properly driven in the first instance – probably not through shingle bed which by the action of the water has been washed away and the foundation of the piles destroyed.</p> <p>I will not prolong this report although there are several other important subjects upon which I will report next week.</p> <p>I am Gentlemen Yrs &c &c &c W Fredk Moore Town Surveyor.</p> <p>The Gentlemen Of the Municipal Council &c &c &c Christchurch</p>
Item 28 Pg80	<p>Town Surveyors Office Sept 22nd 1862.</p>
Tenders.	<p>Gentlemen, I beg to report as follows, Will be before the Council this Evening for making the Lanterns and lighting the Bridges of the City. Sinking an Artesian Well. Supplying the Council with timber Also another tender from Frost & Jackson for the formation and metalling a portion of Gloucester Street.</p>
Footpaths.	<p>The stone kerbing in front of the Town Hall has been put down the length of 95 feet.- ½ the cost of which would be £5.10.10 The cost of timber for the same distance would be £4.2.0 which being allowed instead of the stone leaves a balance of £1.8.10 due from the Town Hall.</p>

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Transcription:

Since this morning when this was written Mr Montgomery has paid in £7.14 for a continuation of footpath for 2.00 Chains =	In front of Mr. Fitzgeralds in Cashel St: the kerbing is complete. Messrs Todhunter & Montgomery have not yet paid in their money.
Cashel St:	The work in this street is progressing I have made an arrangement with Mr [Baly] builder who wished to have some of the Earth carted on his section which lays very low to drop it there on his paying...
Pg81	at the rate of 1sh per yard cube [He] will cover the expense of carting.
<i>Box approved but XX [large]. 2 quote handles</i>	I have received a letter from Mr Guinness relative to the state of Cambridge Terrace from the [Gov] Buildings to Columbo St: Bridge It accompanies this Report. On enquiry relative to the Grant of £5 from the Provincial Gov: to the Council to rail in the [pump] in front of Messrs. Ollivier's Stores I find that the construction of a watertrough, & fence is also being done by the Public Works Department.
Gravel	The [Box] made by Mr [Tompkins] is complete.
	I have been unable to find any gravel in Manchester St: & St Asaph's St: to 10 feet below the surface.
	I have prepared a place, all specification of a lean to to be added to the present Building to give increase office accommodation.
Lichfield St:	The sureties who are carrying on the works in this street wish to draw £50-
Madras St:	The Contractors wish to draw £100.
Cashel St:	The Contractors wish to draw £50
Pg82 Salisbury Street Drainage	On visiting this part of the City I find that the inhabitants have themselves got a drain cut in the position I proposed with the exception of through the Cemetery to Barbadoes St: So that what I would now recommend would be to clear out the existing drain on the North Side of Salisbury Street. Which would cost about 7 to 8 shillings per chain.

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Transcription:

Stones &c. Fencing – Oxford Terrace Worcester St.	<p>I have been informed from the Public Works that it is the intention of the Gov: to paint the Fence Oxford Terrace – I would recommend that a wire be run through the posts so as to protect Calf's &c getting in, and destroying the trees. An occurrence of this kind took place last week.</p> <p>I am anxious to know if it is the wish of the Council that stone for paving side drains &c &c as recommended by the Sub Sanitary Commission be advertised for.</p> <p>That portion of Oxford Terrace [sanctioned] by the Council to be fenced is completed- A letter has been received from Mr Bealey guaranteeing 1/13 the...</p>
Pg83 P.S.	<p>expense of the formation & metalling of Worcester St: from Manchester Street to the Club House Latimer Square.</p> <p>I am, Gentlemen Yours &c &c &c Wm. Fredk. Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch.</p> <p>I would request permission from the Council to put a post at the Corner of the newly formed footpaths [where] the Streets cross one another. Which [will] prevent people from driving over there and filling up the side [drain] W. F.M. [S.S.]</p>
Item 29 Pg84	<p>Town Surveyors Office [29] Ch:Ch: September 15th /1862</p> <p>Gentlemen, I beg to report, as follows. Tenders have been invited for Gloucester St. from Colombo St. to Manchester St: & Durham St: from Papanui Road to West side of River Avon. These tenders will be before the Council this Evening.</p>

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Transcription:

<i>For the Govt</i>	<p>Tenders are also invited for Lighting the Bridges of the City.</p> <p>Supplying Tenders for the works & boring an Artesian well.</p> <p>These tenders will be before the Council Monday next. With regard to the latter of these works I have obtained the necessary Borer's Which should be capable of sinking 130 feet. Which I propose should be lent to the Contractor at a Rate of 15sh- per week while in use.-</p>
Footpaths. Ferry Rd.	<p>The footpath on the West Side of the Ferry Road is nearly completed the Kerbing being all done.</p>
Cashel St:	<p>In Cashel St: the posts are ready but a delay occurred from the timber not being delivered according to order-</p>
Slaughter House Rd.	<p>The state of this road is very bad and as the traffic is now rapidly increasing from its leading to the Reserve Section 210 the depository of the clearings of Cess pools &c...</p>
Pg85	<p>I would strongly recommend [that] this road be formed up and metalled. Half the expense should I imagine be paid by the Gov:</p>
Cashel St:	<p>The reforming that portion [of] this Street from Sumner Road to R. Avon has been [commenced] by hired labour.</p>
Colombo St. South & Armagh St.	<p>The formation & metalling of this street from Lichfield St to St Asaph's Street would cost about £100 – Armagh St from Manchester St: to East Belt £8.15 pr chain.</p>
Worcester St	<p>From Latimer Square to [East] Side Manchester St: about £70. Tenders will be advertised for Monday next-</p>
Fencing Oxford [Terrace]	<p>This work has not been done from want of timber-</p>
Cesspools	<p>The accompanying letter I have received relative to formation and clearing out of Cesspools</p>
Hereford St:	<p>There being at present no road made, coming from the Gov: Domain into the City and this Street having the [advantage] of the Bridge at the Mill, & being the most direct for Carting from the Domain I would suggest the formation [Street] to the East Side of Antigua Street.</p>
Bridges-	

CHRISTCHURCH CITY COUNCIL ARCHIVES

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Date Range: April 1862-June 1863

Transcription:

	I would recommend [Bridge] to be made over the R. Avon in the lines of Cashel Street & Manchester St: the cost of the former £500 the latter...
Pg86	600. It may be interesting to the Council to see the two accompanying returns which shew that a distance of 275 ½ chains the Acct- paid to contractors £2411.1.9 or at an average rate of £8.15s.0 per chain. It is, as well that the Council should be prepared to expect a slight increase per chain in the tenders- the gravel pits being filled up will entail a longer distance to cart the extra [muck-]
Spreading Gravel in Cambridge Terrace.	I have communicated with the District Engineer's Office Relative to this being done & also painting Oxford Terrace Railing
Footpaths	About one mile of Kerbing has been laid down and the footpaths formed, & gravelled-
Cesspools [Order gate with footpath from Tompkins}	I would suggest that instead of the square box proposed to be used that an oval shape would be better [<i>sketch of proposed shape</i>]
Lighting Papanui Bridge.	The Contract (one month) has expired. The Bill will be before the Council this Evening- Is it the wish of the Council that the two Lamps be kept lighted as before?-
Pg87 Mill Bridge Worcester St	This Bridge was closed to the [Public] on Friday when the Bridge was raised, & the necessary repairs executed.
Bridge over Salisbury Creek.	The hand rail & some of the [small] piles of this Bridge having been removed by some person or persons unknown. I have had it repaired.
Contracts.	With the exception of Lichfield Street which progresses, but slowly, the Contracts are all going on satisfactorily. I am Gentlemen, Yours &c-&c-&c- Wm. Fredk. Moore

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Date Range: April 1862-June 1863

Transcription:

	<p>Town Surveyor</p> <p>To the Gentlemen Of the Municipal Council &c &c &c Christchurch.</p> <p>I should mention that the footpath in Cashel Street in front of Mr [?] is not [commenced] from want of timber W.F.M</p>
<p>Pg88</p> <p>Tenders (& building leases) Stone for Paving &c</p> <p>Boring for Water.</p> <p>Hereford St: & Worcester St:</p> <p>Lower Lincoln Road</p> <p>Colombo St: North.</p>	<p>Town Surveyors Office Sept:29th 1862. Gentlemen, I beg to report as follows.</p> <p>Tenders will be before the Council this evening for a portion of Worcester St:</p> <p>Mr [name omitted] has brought here some stones broken, & fit for [Macadamising] roads also stone for paving Crossings Carriage ways across footpaths &c for these two purposes I think the stone well adapted. but I am doubtful, as to its fitness for Kerbing. from the Quarry being nearer the city than others I think it would be delivered cheaper than it could be for the present got elsewhere.</p> <p>The accompanying papers will give the information required.</p> <p>I wish again to bring before the Council the desirability of forming, and metalling these Streets particularly the former which in addition to the traffic of carts with gravel both our own, & the Govt. the [quantity] of such close to their ^Both Streets junction with Montreal St: will soon render the crossing of the latter street, as bad, as before their formation</p> <p>The barriers are still up throwing the whole of the traffic that comes into the City from this road on to Tuam Street which when formed only received 20 yds Cube of Metal. I think with permission of the Council I would like to put an additional 10yds Cube pr chain.</p> <p>The additional 10yds Cube to be put on this Street. I have not had done just yet. Other Contractors being in...</p>
<p>Pg89</p> <p>Kerosine & Lamps</p>	<p>in the pit the gravel was to come from, as soon as there is room in the pit.</p> <p>I have written for an estimate for a supply of Kerosine to Messrs Taylor & Co= I find the price in the Town to be 8 to 10 sh: pr gal.</p>

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Date Range: April 1862-June 1863

Transcription:

P.S.	<p>In accordance with the resolution of the Council I am taking measures to carry out the suggestions of the Committee to carry out the [proposals] of the Sanitary Commission</p> <p>I am, Gentlemen Your ob: Servant. Wm. Fredk. Moore Town Surveyor</p> <p>The gentlemen of the Municipal Council &c &c &c. Christchurch</p> <p>I am unable to report upon the Artesian Boring fully this week – I find that it is hardly possible to come to a <u>correct</u> estimate of the work My present opinion would be better done by hired [labor] I will report fully on this next week</p>
Pg90 Tenders:- Advertisements. To come in 20th- -----27th- -----13 th - Montreal St. Lighting Lamps Sanitary Reforms	<p>Town Surveyors Office October 6th 1862</p> <p>Gentlemen, I beg to report as follows. Tenders will be before the Council this Evening for Kilmore St: from Papanui Road to Manchester Street Also for supplying Stone for side Drains Crossings Metal &c.</p> <p>I have advertised for tenders for Tuam St: and Colombo St: South- For emptying Cesspools For St. Asaph's & part of Madras St.</p> <p>This work having been completed I have passed in for the balance due to the Contractors I have been in communication with Messrs. Taylor & Co. Lyttelton relative to a supply of Kerosine. I subjoin their reply. I then sent for a sample of 25 gals: to light the present lamps as a sample which I have received. The lighting will commence three days after full moon</p>

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Date Range: April 1862-June 1863

Transcription:

	<p>I have in accordance with a resolution passed on the 18th of Augs: By the Council temporarily engaged the services of Mr Silk who I am at present employing as suggested by the SubSanitary Commission.</p>
Pg91	<p>I have engaged him at the daily rate of 10sh.</p>
Rate payers Roll	<p>I have examined the Rate Payers Roll., and I find nothing [incorrect] in it—</p>
Armagh St:- Madras St	<p>I have passed in an acct: for £100 for the contractor which the Acct of wk done justifies.</p>
Gravel:	<p>A supply of gravel can be [supplied] to private individuals at the rate of 6sh.6d per yard cube.</p>
Kerbing	<p>I would be glad to know if the Council wish the same [arrangement] to hold good with persons wishing to have Stone substituted for Wood in the formation of [footpaths]</p>
Pit in Armagh St.	<p>Also if I might advertise for filling up this pit with Earth from the Bank in the same Street just East of Madras St. This would of course be a continuation of the formation of the Street and would materially lessen the expense of formation through to the E. Belt when commenced.</p>
Worcester St. & Hereford St.	<p>I consider it my duty to again bring before the Council the state of these Streets at the crossing of Montreal St: particularly the former where the [sand] is [heaping] at present 3 or 4 feet across the...</p>

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Date Range: April 1862-June 1863

Transcription:

Pg92	roadway.
Hereford St:	I have passed in for this job £50 as this work the Contractors being entitled to it from the Acct of work done.
Artesian Boring	<p>As I stated in my last report the difficulty attending a correct estimate being made. I think that the work would be done cheaper by hired labor. I have only found one man in Ch Ch who would be willing to undertake the superintendence & he would not under 12sh pr day I was unable to see Mr Holmes when I was going down, he, I was told might have a man who he could recommend- I have also [much] difficulty about [lining] for the bore hole. I have been unable to see Mr Dobson who would be able to [give] a recommendation to source more. But I have no doubt that on Monday night I shall be able to give every information necessary should the Council decide upon hired labor, or fresh Tenders.</p> <p>I am Gentlemen. Yours &c &c &c Wm. Fredk. Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council. &c &c &c</p>
Pg93	<p>Town Surveyors Office October 13th 1862</p> <p>Gentlemen, I beg to report as follows.</p>
Tenders	<p>Tenders will be before the Council this Evening for Forming & Metalling St Asaph's St with part of Madras St: Emptying Cesspools on 27th Oct: Colombo St: South with Tuam St: 20th Oct: Armah St: (East.). 3rd Nov: Manchester St: (Center) Nov 10th I have advertised a Public Notice that private persons Residing in the City may from this date be supplied with gravel at Xs.Xd pr: sq Cube.</p>
Artesian	

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Date Range: April 1862-June 1863

Transcription:

Boring	I have been in consultation with the Provincial Engineer relative to this work. He perfectly agrees that the tender that was sent in is exorbitant [and] also that I should draw up a schedule of prices for the various depths and advertise for persons willing to undertake the work. From the fact of the Artesian Spring being cut across in the Tunnel works I would be led to believe that a depth of not more than 170 to 200 feet would reach down to the Stratified Rock from whence we should secure a good and constant supply of water.
Pg94 Stone Supply Kerbing	Tenders as follows Mr Casker. £1 for Running Foot Forgan _ 6sh.6d _____ D _____ Mr. Greig } 5s. 6d _____ D _____ John Block }
Side Drains	Mr Casker. 14sh.pr. ^running D Yard__ Forgan £2.0.6 __ D __ D __ Mr Greig } 2.1.3 D _____ D ____ [J Block] }
Street [Crossing] Drains	Forgan. /2s. 5d pr yd Square Or 21/6 running yd
Broken Metal	Forgan £1. 5s. 0d pr yd Cube Mr Casker. 1.10.0 __ D __ not [spread] The above includes completing the work
Drainage.	The deep drain on the West Side of the Windmill Rd- which has its [outlet] In a creek running through the [grounds] of the Scotch Church & [Manse] between the hospital is comp ^l etely choeked and requires clearing the distance of about 35 chains. The cost of doing which should not exceed 7s.5d pr[chain]
Cashel St: In accordance With Resolution August 18 th 62	The foundation of this Street is nearly completed and I advertised for XX have arranged with [Mr XX] To metal ^ from Oxford Terrace to Colombo St for £50 ^that portion between Oxford Terrace, and Colombo St: about XX

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Date Range: April 1862-June 1863

Transcription:

Town Belts.	I have seen Mr Dobson relative to the best method of laying out the [Town] Belts. The accompanying sketch will give the best idea that nearest to the Town a 10ft. footpath- a 30ft Road [Metalled] in the center a dist: of 66 feet planted...
Pg95	with a pathway between next a road 26 feet wide this latter to be considered exclusively for equestrians the 30ft. Road to be first made and metalled.
Hereford St:	This work is completed according to contract Acct. ^of balance due £25.
Gloucester St:	The contractors wish to draw £50 on this work. The wk done justifies it.
Cashel St:	This wk is completed according to Contract Balance due £78.5s
Manchester St:	This wk is completed according to contract Acct. of Balance due £20.
Lamps-	The lamps have now been lighted two nights (3)-1/2 pts keep the lamps burning for one night I am. Gentlemen Yours &c &c &c Wm Fredk. Moore. Town Surveyor To the Gentlemen of the Municipal Council &c &c &c Christchurch [Past] 12 th XX
Pg96	Town Surveyor Office October 20 th 1862
Tenders,	Gentlemen, I beg to report as follows, Tenders will be before the council this evening for the formation and Metalling of Tuam St. from Montreal St to Ferry Road and from Lichfield St to South Town Belt in Colombo St.
Called for:	Emptying Cesspools Monday next October 27 th /62 Armah St: East. Monday Nov:3 rd /62 Manchester St: (Center) Nov: 10 th /62
Cashel St:	The re-formation of this Street is completed

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Date Range: April 1862-June 1863

Transcription:

	<p>From Cashel Colombo St: to High St: is Metalled</p> <p>From Cashel Colombo St: to Oxford Terrace will be completed this day- This work has been done by hired labor except Metalling that portion between High Street, & Oxford Terrace</p> <p>The Cost of the whole including making up the [spaces] in front of Messrs Olliviers and Messrs Cookson's Stores. Carting gravel to Ferry Road footpath, & other small works has been £142.11.9 for the dist. of 1700 Links, or at the rate of £8.8 pr: chain</p> <p>In this Street from Ferry Road to Manchester Street the additional 10yds Cube of Gravel has been [put] for the distance of 600 Links-(£10.10) by Messr Chisnal & Boag.</p>
Tenders for Stone Kerb &c	I have seen the persons who tendered for these supplies. Their new tenders accompany my report.
Boring For Water	The specification with list of necessary [job acct] for this work also accompanying this.
Mr Silk.	[Since] Mr Silk has been in the employ of the Council. I have employed him...
Pg97	in looking after the nuisances. [Primarily] in Cesspools in those parts of the Town recommended by the SubSanitary [Cm]
Committee.	Printed Notices similar to the [accompanying] one have been served upon (with one or two exceptions) the residents in [these] parts-. The people all appear highly satisfied that these steps are being taken towards the sanitary [improvement] of the Town.
	[Seeing] that the Council have [appointed] a committee to consider what work should be undertaken the ensuing [year] I may now request permission (which I did not otherwise intend doing [til] later in the season) that I may be permitted to open such side [drains] in Streets, as may be under XX to their being kept in a tolerably healthy condition during the ensuing [winter]. Also filling up [gullys] in some of the Streets. This in many cases I should like to commence at once that a firm bottom may [be] formed to take the drainage over
Pg98	There is a deep gully running across Durham Street. & as I conclude that this Street will not be made for some time. It would be advisable to fill up from the sides making a
Injuring Public Property	a roadway across & filling up a nasty water hole.
	During the past week injuries have been done to two bridges in the City by carts running against the hand rails- viz Montreal Bridge and the bridge in Tuam St: East side of Windmill Road. By whom these injuries were done I have been unable to find out Perhaps the Council might suggest some means either by offering a reward or otherwise by which a stop might be put to this destruction of Public property that the person who does the mischief might pay for the repairs

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Date Range: April 1862-June 1863

Transcription:

Gravel	The whole of the gravel is getting very [sandy] the expense of screening would be very expensive -great. [From] the Gov: Pit in the Domain it has cost as much as 2s.6d pr sq Cube- In the arrangements I am made by the Councils' Resolution as to making Manchester St: and filling up Armagh St: Pit. I would wish to fill up the pit S.W. Cathedral Square leaving Armah St: pit to be filled from the Bank in the same Street just South -East of Madras St:
Contracts:	I have visited the various works in the hands of Contractors occasionally...
Pg 99	during the week. I have found the works progressing satisfactorily
Carpenters:	The two carpenters who have been [lately] in the employ of the Council left on [the] 15 th -Oct. 62- I have been fortunate [enough] to meet with one other who is working from this day's date at the same rate as the others viz 8sh per day.
Lichfield St:	Although this Street is not completed work is now slowly but steadily [progressing]
Windmill Rd: Drain	The clearing out this drain is [Completed] the cost being 5s-.0 pr. Chain. It has had the effect of low [^] ering the water 6"-
Planting Oxford Terrace	I have seen Mr Maude in reference [to] supplying the same number of [Blue] Gums that have died since planted on Oxford Terrace. Which he expressed his willingness to do. provided[there] are a sufficient number left in [the] Gov: garden. I have not yet been able to see Mr Barker. the gardener I am Gentlemen Your's &c &c &c Wm- Fredk [Moore} Town Surveyor To the Gentlemen of the Municipal Council &c &c &c Christchurch.
Item 34 Pg 100 Memo:	For the Committee Appointed to Sit by the ChCh Municipal Council Town Surveyors Office October 22 nd /1862

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Date Range: April 1862-June 1863

Transcription:

	<p>Gentlemen</p> <p>In accordance with a Resolution of the Municipal Council sitting Octbr-21st/ as I stated in my Report of that date I consider it highly desirable that the drainage of the Streets in the City should be pushed forward during the fine weather as much as possible but more particularly in the following places. by the East Town Belt and the present drains open in the South East part of the town be continued through the Reserves. In many places there are Gullys to be filled in to enable the drains to be carried over them. These latter works I would like to commence at once The whole of the South Town Belt in the Winter is really impassable. The means of taking off the surplus water from these parts of the town [since] the extreme west of the Belt must depend upon the Gov: Arrangements-</p> <p>The portion of the City on the West Side of the R. Avon does not require such prompt attention but on the North much may be done to render the Streets passable [same] the North East [parts] At present it is difficult to say which way...</p>
Page 101	<p>drainage will be taken. Whether the Creek which is the natural drain will take the water, or whether it [would] have to come down Manchester Street. In Peterbro St: especially [between] Durham St and Columbo St. great [improvements] may be made. In estimating the cost of day laborers] employed I would say an average of £18 to £20 per week would enable the whole to be done. In concluding this short report of what is so absolutely [required] I may beg that the Committee [would] recommend that such [means] may be taken as will [result in] carrying out such measures [as] may be decided most [expedient] for the Sanitary Condition of the Town.</p> <p>I am Gentlemen, Yours &c &c &c Mr Fredk Moore Town Surveyor.</p> <p>The Gentlemen of the Committee of the Municipal Council &c &c &c Christchurch</p>
Item 35 Page 102	<p>Christchurch. Nov. 3. 1862</p> <p>This is to certify that Mr W. F. Moore (Town Surveyor) is much out of health and requires complete rest for a week or ten days.</p> <p>S. S. Stedman MD</p>
Item 35 Page 103	<p>Town Surveyors Office November 3rd 1862</p>

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Date Range: April 1862-June 1863

Transcription:

Drainage	Gentlemen I beg to report as follows His Honor the Judge wishes to know if he can make a cutting across the Town Belt in accordance with the drain that is already made. And is respectfully request that the Council will grant permission for this work to be carried on.
Oxford Terrace	I have been in Communication with the Govt Gardener and arranged with him for getting 3 dozn Blue Gums to replace those decayed in Oxford Terrace which he will let us have in the middle of next month as it is Considered the best time to plant them out. The work has been completed it was done by Messrs Chisnall..
Colombo St North	
Page 104	and Boag the original Contractors in the usual way. The 10 yards of Gravel additional being put on at the rate of per private Contact. of 3/- per yard cube As the accompanying letter will Show I am deeply Grieved that another meeting of the Council Should [pass] without being able to attend I am Gentlemen Your O.Bedt.Servt. Mr Fredk Moore Town Surveyor The Gentlemen of the Municipal Council of Christchurch
Item 37 Page 105	Town Surveyors Office Nov 10 th 1862.
Tenders	Gentlemen I beg to report as follows. Tenders will be before the Council This Evening for Armagh Street from Madras St to East Town Belt. Tenders for Hereford St. from R. Avon to Antigua St Nov 17 th 1862.

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Date Range: April 1862-June 1863

Transcription:

Asphalt.	Mr. Laurie of the firm of Laurie & Co had called leaving the two accompanying letters he is preparing an estimate for me to lay before the Council at what rate he will lay Asphalt on footpaths etc in the City.
Lichfield Street	The time for the completion of this work has now sometime expired, and no steps are being taken by the sureties of F.[M'Can] to complete the Sheet. I beg the permission of the Council to employ men to finish, and charge the accounts so expended to the sureties.
Stone	As the tenders which were sent in for the various descriptions of Stone [have been] thrown out, may I ask if it is still the intention of the Council to have the bench marks placed, as per a resolution passed Sept 1 st 1862 every 5 or 10 chains, and if so, whether I am justified in taking steps for obtaining the necessary supplies.
Page 106 Drainage of Brewery	The drainage from some of the Brewery's in the City are constituting a perfect [nuisance] I wish to know if it is the intention of the Council to permit these to drain into the side drains of the road, and if so what means can be made available to prevent a nuisance so much complained of.
Lamps	The probationary month for the [trial] has now expired – I am more now than ever of opinion that Kerosine is totally unfit to light the City. When there has been any wind it has sometimes taken more than one hour to light them at all and since when lighted constantly going out keeping a man perpetually [moving] backwards, forwards for the purpose of re-lighting. The consumption of Kerosine has been about 4 gallons for the month I may here mention that Mr Wylde has requested me to light the lamp he has had put in the Gothic Arch in the new suspension Bridge. I told him I would refer the matter to the Council.
Oxford Terrace	I must again bring before the Council the advisability of putting wires along the newly made fence that portion near to Linwood Bridge is being washed away, and any children...
Page 107	who might be playing near would be being apt to fall in.
Cambridge Terrace	On the East side of Colombo Street on Cambridge Terrace there is a dangerous deep open drain which to render it be any way safe required a culvert 90ft long the cost of which would be about £40 the whole work costing £45.
Gravel	I am sorry that I should again have to trouble the Council with this matter. But nearly the whole of the available gravel has been used, and I am to a certain extent in difficulty to know where to get a further supply. Up to the present time no answer has I believe been received from the Govt relative to a Bridge over the R. Avon. Armagh Street West.

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Date Range: April 1862-June 1863

Transcription:

Hereford.St	Tenders (as above stated) are advertised For this Street from R.Avon to Antigua St: Might I suggest that this work be only carried as far as Montreal St: which would render the worst part of the road passable during the ensuing winter the remaining part though rough & full of sand and hills would be the most expensive from the quantity of [work] to move and is always passable.
Verandah	I have received a communication From Mr [Mallinson] requesting to know If he may put up a verandah in
Page 108	High Street different to the plan approved by the Council – It consists of a [flounce] now supported from the wall by struts with a rolling blind. I mention this matter from having refused permission I fancy something may possibly be said about it.
Worcester	In reporting upon what is best to be done with that portion of this street just West of R. Avon. I can suggest nothing but that the street should be made the distance to Montreal Street is 9 Chains the cost would be about £8.5 per chain or the footpath on the North side made up which would always ensure a dry place for foot passers.
N. Town Belt	During the past week I have visited the drain which is being dug by His Honor Judge Gresson. There is no doubt that this work will be highly advantageous to the lands beyond the town Belt. But I beg to call the attention of the Council to the 47 th Clause of the M. C. Ordnance the drain on completion will require some means of crossing. Three or four planks spiked down will be sufficient for foot passers.
Stone Kerbing	The stone Kerbing is at present being put down in Oxford Terrace. The [Bros England] having given over charge I am continuing the work the expense will be £7.8.6 per chain.
Page 109	<p>PS In reference to the tenders for Stone. I would wish to bring before the Council the fact that the tenders are for different natures of Stone. Some of which I am of opinion would not be suitable for the works from not being capable of being properly dressed the Grey Stone being the best fitted.</p> <p>Mr Fredk Moore Town Surveyor October 20th 1862</p> <p>PS The sum of £2.10 was paid by Mr Inwood for having earth carted from Cashel St there not being sufficient to spare may I request that the money be returned.</p> <p>Mr F. Moore</p>

CHRISTCHURCH CITY COUNCIL ARCHIVES

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Date Range: April 1862-June 1863

Transcription:

	TS
Item 38 Page 110	Town Surveyors Office November 17 th 1862
Tenders.	Gentlemen, I beg to report as follows, Tenders will be before the Council this evening for Hereford Street from R Avon to Montreal Street. I have advertised for fresh tenders for Armagh Street from Madras St: to East Town Belt for Monday next, Novr 24 th 1862.
North Town Belt	A temporary foot bridge has been placed over the drain opened across the North Town Belt by His Honor Judge Gresson.
Oxford Terrace	The bank of the R. Avon at the place where the fencing was lately placed nearly opposite the Govt Buildings is being rapidly scoured away and if immediate steps are not taken portions of the road will soon go. I therefore request the permission of the Council to have the bank staked and filled in behind with brushwood the stakes being tied back with the roadway also to have the corner on the same side of the River just below cut away so as to give a more direct...
Page 111	course to the water. This latter work would also save the Bank On the West side by the Govt Buildings on which at present the River [makes] almost a direct course the cost of both works would be about £12
Lichfield Street	The formation of this road where required is being rapidly [proceeded] with and will be completed on Wednesday next.
Hereford Street	I should mention that I have omitted the one chain on the west side of Montreal Street being of opinion that it would not be of any permanent benefit.
Placing the Names of Streets	I have enquired of several [people] residing at the corners of the principal streets. They have no objection to the names being put on their houses. I am having them written in white upon on black ground
Carpenters	
Verandah	In consequence of the press of work to be done just at present I have engaged another carpenter at 8 sh per day
	I have seen Mr [Mallinson] [stated to] him the wishes of the Council with reference to the Blind he wishes to put up in High Street

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Date Range: April 1862-June 1863

Transcription:

Page 112 Lamps	The lamps are removed from Papanui Bridge. There are still about 20 gallons of kerosine left.
Madras & Worcester St	These works are completed & the 14 days having elapsed I have passed in the balance's due to the contractors
Artesian Boring	I have seen Mr Sprot with reference to the boring tools. Chisels, piping &c. I regret today they have been purchased by the directors of the Coal Company but I am led to believe that no differently will exist in obtaining the use of them & also some lengths of piping to be used where absolutely necessary.
Stone	I have been in communication with the persons who tendered for the supply of stone. They promised to send to me before to night what they would supply the stone's for Bench marks for also what length of Kerbing they would deliver for £100
Kerbing Oxford Terrace	A letter has been written to the District Surveyor requesting him to hand over the account of £44-2 being the account
Page 113	Of balance due by the Provincial Govt of their share of the cost of the stone kerbing on West side of Oxford Terrace I am Gentlemen Yours &c &c &c Mr Fredk Moore Town Surveyor To The Gentlemen of the Municipal Council &c &c &c Christchurch
Item 39 Page 114	Town Surveyors Office November 24 th 1862
Tenders.	Gentlemen, I beg to report as follows. Tenders will be before the Council this evening for formation & metalling Armagh Street from East Side of Madras St to West side of East Town Belt.

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Date Range: April 1862-June 1863

Transcription:

[Lanterns].	<p>Tenders are also entered for the formation of Selwyn Street from South Town Belt to the Lincoln Road. & Barbadoes St. from Cambridge Terrace to Ch. Of England Cemetry</p> <p>I have to bring under the notice of the Council the damage done to the [lanterns] the property of the Municipal Council which are hung out at night at the gravel pits so on the night of the 18th one was thrown down, and totally destroyed, another thrown into the pit and rendered quite useless from what I can hear this occurred between the hours of 10 & 11 o'clock PM—in Cathedral Square. Again on the night of the 21st Another was treated in a similar manner. From these circumstances I would be led to imagine that the police are extremely negligent in carrying out their orders. I may further add that during the past week...</p>
Page 115	<p>I saw a lad on the footpath on the East side of Oxford Terrace with a [goat cart] I believe the police man who passed just at this time told him in a laughing way he should not be there. I asked him, if he had no orders to prevent cart-horses &c &c from being on the footpaths. He said oh yes. He told him to go on the road making more a joke of it than a matter of duty evidently showing by his manner that he hardly considered the matter one he [would] stoop to recognize. I should not dwell upon this subject so long but from the state of the whole of the newly formed side drains footpaths it is but too evident [that] but small, if any pains are taken to prevent the destruction of works which have been done under the direction and at the expense of the Municipal Council.</p>
Posts	<p>The larger post it was the wish of the Council to have put up at the corners of Hereford and Columbo St and other places. The timber...</p>
Page 116	<p>contractors not having by them at present the size required – but have some coming shortly.</p>
Lichfield Street	<p>With the exceptions of breaking the large stones this work is at length completed. The accounts to be deducted from the balance due to the sureties is £32-8-3 with a further charge of 12s for breaking stones up.</p>
Stone	<p>I have ordered the stones for the bench marks (100) Cost £9.3.4. I have also received three tenders for the supply of Kerbstones which I submit to the Council. Moses Rees's being the lowest tender. His 750 lineal feet for £100- I should say that this is the lowest tender yet received.</p>
Bridge Oxford Terrace	<p>The fencing is still up across the Road. Oxford Terrace & I see no sign of anything being done to the Bridge. It has now been closed 3 months.</p>
Bridge Approaches	

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	<p>The railing has been put to the approaches to Montreal Street Bridge on the North side. It would take a total length of 250 links to fence the approaches. Colombo St Bridge on both sides the cost will be £15.</p>
Page 117	<p>I conclude that it is still the wish of the Council it should be done - .</p>
Kilmore Street	<p>The formation of this Street is [complete] and the work well done by the Contractor's (Askew). He wishes for £100 for which he is entitled - .</p>
Mr Silk	<p>Has now been with the M. Council [for] one month, & three weeks. Subjoined a list of the various properties he has visited with a column shewing what was required to be done by the residents. I am glad to be able to add that Mr Silk carries out his duty in a very satisfactory [manner].</p> <p>I am Gentlemen Yours &c &c &c Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch.</p> <p>PS Mr Samuel who I have given the order [to] write the names of the Streets to be placed at corners of Streets has disappointed me by not having one painted to [show] to the Council this Evening as an specimen of what the whole would be. Mr F Moore TS</p>
Page 118	<p>Town Surveyors Office December 1st 1862</p>
Tenders	<p>Gentlemen, I beg to report as follows. Tenders will be before the Council this evening for Selwyn Street (formation) from South Town Belt to Lincoln Road. Tenders are advertised for Barbadoes St (foundations) from Cambridge Terrace to the Ch. Of England Cemetery.</p>
Armagh St	<p>The man [Eaton] whose tender for this work came in the meeting before the last at £12 per chain is unable to procure carts, & Horses necessary for carrying out this Contract. He makes an offer to do the formation £5.10 per chain & to have the gravelling done by a separate</p>

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	tender – which arrangement I cannot recommend for the cost of the latter work alone would be from £7 to £7.10s per chain and the additional distance of the present open pit would increase the expense I would therefore request that the tender of Frost & Jackson be accepted.
Oxford Terrace	I have had the chains from...
Page 119	Cathedral Square put along the fence in Oxford Terrace where required.
Cambridge Terrace	The Culvert on Cambridge Terrace North side of Columbo Street Bridge has been put down and the xx distance fenced off.
Stone Kerbing	The expense of the stone Kerbing is 750 lineal feet for £100 for delivery at the yard Oxford Terrace – laying the same at per lineal foot (the stone being on the ground.) Should the Contractor have to lift, & cart the stone a second time the expense of so doing would depend upon the distance.) without this latter moving the cost of the Kerbing would be £121.17s.2d per 750 feet or at the rate of £10.14.5 ½ per chain and the average expense of delivered at the yds then carted a second time £11 per chain –
Durham	This work having been completed 14 days. I pass in the balance [owed] to the contractors
Names Streets	A sample board has been completed, and before the council – If approved of will they be put up at once where the residents have been spoken to, or wait until...
Page 120	the new act comes in force.
Gravel pits.	The working gang are still at work filling in the gravel pit Cathedral Square.
Culverts.	<p>A culvert is required across Montreal St South of the Bridge, and also across Oxford Terrace to take the water of the North side of Lichfield Street from Colombo St to the terrace. These culverts are commenced by the carpenters.</p> <p>I cannot conclude this report without reminding the Council the necessity which exists to have the drainage [reformed] before the coming winter - and the present main drains thoroughly cleared out. These latter might be advantageously done by private contract agreements though the cost of each work would not [amount] to £25- [due to] the small number of men at present employed without [the arrangement] as above it will be impossible to get these works done during the season – they are of far greater importance than the formation of more streets.</p> <p>I am Gentlemen &c &c &c Mr Fredk Moore</p>

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	<p>Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p>
<p>Item 41 Page 121</p>	<p>Town Surveyors Office 1st Decbr 1862</p> <p>Gentlemen, I take this the earliest opportunity of thanking you for the resolution passed by you on Monday last raising my salary to four hundred [per annum]. In addition to the increase of pay I feel highly grateful that I have succeeded in giving such satisfaction, as to have met the unanimous approval of the council.</p> <p>I may add that I will spare no exertion to continue to merit the confidence of the Council.</p> <p>I have the honor to be Gentlemen Your very obt Servant Mr Fredk Moore Town Surveyor.</p> <p>To the Gentlemen of the M.C. &c &c &c</p>
<p>Page 122</p> <p>Drainage Works to be done by working gang.</p>	<p><i>Note - Page missing</i></p> <p>Before commencing this subject I would wish to bring before the council the inadequacy of the present working Gang. The small number (07) would be far too small to carry out the necessary works required during the remainder of the [summer] from the nature of the works and the necessity which exists of their being separated, one man in one place, and one in another leaving probably not more than 2 or 3 together to go on steadily with the regular work.</p> <p>With regard to the North side of Avon. I would recommend that the whole of the drains [running] in the N.E. portion should be cleared out. That is those from the N Town Belt to the drain on N.Side of Salisbury St: inclusive – make up a firm roadway in the same Street for a width of 12 feet – making up good footways across the gullies in Montreal St between [N. E.] Belt, and Papanui Road – Make up a footpath N. Side of Kilmore Street from Taylors Brewery to Papanui</p>

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	<p>Road.</p> <p>South of Avon R Commencing with the East Town Belt during the winter months this Belt is in an impassable condition I would at once for a width of ½ chain...</p>
Page 123	<p>on the west side fill up all the gullies so as to be viable to carry the water over them to their [outfalls]. This would render the inhabitants able to get about – likewise the gullies in Barbadoes St. Clear out the South Drain, as soon as the decision of the Govt is known relative to its outfall. Open side drains down the whole of the street running N & S. down to it. And take what measures as may appear best for making the S Town Belt passable. What I would suggest as being the first thing to be commenced would be filling up the gullies etc in E Belt commencing with the one nearest to [Messrs] Croft & Wards Brewery.</p>
Peterborough Street]	<p>I would also recommend that that part of Peterbro' St which lays between Durham St and Papanui Road should be made passable for a width of 12 or 14 feet for carriages. At present when coming down Durham St & wanting to go [up] the Papanui Road people have to go down as far, as the junction of Durham St, & Papanui Rd: before they continue up.</p>
Boring	<p>By careful enquiry I have ascertained that Mr Sprot has piping & the necessary apparatus for sinking to a depth...</p>
Page 124	<p>of 200ft. I find by (as before stated) a section of the country from the Gorge of the Waimakariri to the artesian spring in Tunnel on the South Side that in all probability stratified Rock will be reached at a depth of about [180] ft the expense of the piping &c &c is £150.</p>
Asphalt	<p>I have since the commencement of my report received from Mr Lxx the estimate mentioned.</p>
Plan for T Surveyors Office	<p>I wish to bring before the Council the necessity that exists for a press to contain contract forms, pay sheets and other papers necessarily appertaining to the Town Surveyors Office and to request permission to have one made suitable for this purpose.</p>
Kerbing.	<p>Wood for kerbing including nails £4-4- stone for Kerbing delivered in yd ChCh £19-1-6 as per tenders received (lowest).</p>
Land Office Bridge	<p>The condition of this bridge is daily getting worse & worse, and will not in its present condition last much longer.</p> <p>I am Gentlemen, Yours &c &c &c Mr Fredk Moore Town Surveyor</p>

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Date Range: April 1862-June 1863

Transcription:

	To the Gentlemen Of the Munc Coun &c &c &c Christchurch
Item 42 Page 125	Town Surveyors Office 8 th Decbr 1862
	Gentlemen, I beg to report as follows.
Tenders.	Tenders will be before the Council this evening for Barbadoes Street from Cambridge Terrace to the Ch England Cemetry.
Lichfield Street	This work is now completed & the account stands this
	Total Amt of Contract £ 204 . 3 . 9
	£ s d
	Advanced on Acc of
	Work done 50 - 0 - 0
	Paid by M. Council £ 84 – 12 - 9
	For completing the wk 34 – 12 – 9
	Balance now due £ 119 – 11 – 0
Foot Bridge Hereford St Worcester Street	On Wednesday morning last one of the stringers on the West End of this Bridge gave way and it became impassable. I had the carpenters taken away from the work they were employed on and at once took steps for having the Bridge repaired. This wk will be completed on Wednesday next. On closing the bridge I placed one of the printed boards at each end of the Bridge. One of these was removed the same night and has not yet been found. Information has been given to the Police.
Gorse hedges	In having the gorse hedges cut. I am unable to find any authority
Page 126	for having them cut away the distance of ½ chain from the unoccupied houses, which I [keep] quite as much required as if occupied.
Culverts Oxford Terrace	I have seen Mr Wylde relative to his supplying timber for these Culverts. He told me he would be happy to let me have it, if he [had] it himself but that he was [himself] obliged to beg for the works as [he] wanted it.

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Footpaths.	I have made out a list of the formed footpaths and sent it [to] the Govt for publication in the Gazette.
Cesspools [Runoffs]	The plans for making the required alterations are made and as soon as the carpenters can [see] the bridge the work shall be done.
Handbills	The handbills required for the prevention of riding on the [footpath] are ordered but not yet printed.
Drainage	May I request that the Council will take under their consideration the last clause of my last report relative to drainage.
Taking charge of the whole City	Having seen the letter from the Govt relative to the compensation to be allowed on the Council taking charge of the whole of the...
Page 127 <i>(Note the Govt asphalting 40 yds cube)</i>	City the [amt] offered is £572-10-0 this includes £172-10 being the proportion of Durham Street guaranteed. Also the Bridge near the Scotch Church the cost of which will be about £120 leaving a sum of £280 for other necessary repairs, placing more metal upon the Ferry Road for a distance of 30 chains which at 30 yards cube per chain will cost £270 leaving a balance of £10 for other purposes taking in cart ruts, clearing side drains &c. &c. In addition to the above there are Chains 45 in Oxford Terrace 48 -- Whately Road 21 - Colombo St and Cambridge Terrace which for a certain distance should have been made, and metalled by the Govt. (Market Place North). The total length of metalled Rd to be kept in order is therefore 144 chains or nearly two miles. Keeping which in order raking &c would cost £100 per annum at 10sh per chain per year (at the Council estimate).
Formed & metalled	
x	I have received an application from Mr Tomkins for earth to fill up his stable 30 loads. He has paid in £3 for the service. As the formation of the streets proceed I find that in some...
Page 128	cases as Armagh St the road is not the proper width. Some being too wide & some too narrow. he section pegs where found not being accurately put in. <i>Armagh St is 9" too narrow.</i>

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	<p>I have the honor to be Gentlemen Your very Obt Servant Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch.</p>								
Item 43 Page 129	<p>Town Surveyors Office December 15th 1862</p> <p>Gentlemen, I beg to report as follows,</p>								
Land Office Bridge	<p>The repairs of this bridge are completed with the exception of painting the cost of the work, as follows.</p> <table><tr><td>Carpenters labor 15 ½ days</td><td>£6. 4.0</td></tr><tr><td>287 ½ ft Timber</td><td>3.17.9</td></tr><tr><td>Bolts & Nails</td><td><u>1. 2.0</u></td></tr><tr><td></td><td>£11 .3.9</td></tr></table>	Carpenters labor 15 ½ days	£6. 4.0	287 ½ ft Timber	3.17.9	Bolts & Nails	<u>1. 2.0</u>		£11 .3.9
Carpenters labor 15 ½ days	£6. 4.0								
287 ½ ft Timber	3.17.9								
Bolts & Nails	<u>1. 2.0</u>								
	£11 .3.9								
Hereford St	<p>The formation, and metalling of this street from Cambridge Terrace to Montreal Street is [concluded] but the appearance of the whole Street is interfered with by the position of Inwoods Mill Bridge.</p>								
Barbadoes St	<p>In response to the formation and metalling of this street from Ferry Road to South Town Belt I think it, as well to mention that, as the Ferry Rd drain at present is that during times of heavy rains & freshets. The probability is that the street will be to a considerable extent covered with water.</p>								
Naming the streets	<p>I have had the names Hereford...</p>								
Page 130 Price 24	<p>Street & Colombo St placed at the S W Corner on Miss [Skillicone's] house.</p>								
Kerbing	<p>Some of the Stone for the Kerbing that was ordered by the Council has been delivered. The stones are of good quality and well adapted for their purpose.</p>								
Sellar's Contract									

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Drainage	<p>Sellar has got his cart for the removal of the pans finished. It is a good cart & suited for the work intended.</p> <p>The principal works required [and] done are the</p> <table><thead><tr><th></th><th>Ch</th><th>at per ch</th><th>£</th><th>sh</th></tr></thead><tbody><tr><td>Drain N Side Salisbury St</td><td>23</td><td>7s</td><td>8</td><td>1</td></tr><tr><td>N Town Belt 2 [chains] to Salisbury St</td><td>36</td><td>7</td><td>12</td><td>12</td></tr><tr><td>Manchester St from N Belt to 18 Chains</td><td>18</td><td>7</td><td>6</td><td>6</td></tr><tr><td>South Drain</td><td>80</td><td>8</td><td>32</td><td>0</td></tr><tr><td></td><td></td><td></td><td colspan="2"><u>£ 56.19</u></td></tr></tbody></table> <p>Opening side drains on one side of streets costs 12ch per chain. It is hardly necessary to portion these streets for I consider that save on the West Side of the River one side drain should be open in each Street.</p>		Ch	at per ch	£	sh	Drain N Side Salisbury St	23	7s	8	1	N Town Belt 2 [chains] to Salisbury St	36	7	12	12	Manchester St from N Belt to 18 Chains	18	7	6	6	South Drain	80	8	32	0				<u>£ 56.19</u>	
	Ch	at per ch	£	sh																											
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Manchester St from N Belt to 18 Chains	18	7	6	6																											
South Drain	80	8	32	0																											
			<u>£ 56.19</u>																												
Mechanics Institute	<p>I have been communicated with by a member of the [Committee]...</p>																														
Page 131 <i>Survey to report further £14</i>	<p>of the Mechanics Institute relative to levelling the site proposed for the new Building. I wish to know if the Council are willing to assist in this work and how?</p>																														
Colombo St North	<p>The reformation & metalling of Colombo St from Salisbury St to North Side North Town Belt a distance of 20 chains will cost about £7.10 per chain in addition to which progression will have to be made to carry off the drainage down the Town Belt. The cost of which I am not yet prepared to state.</p>																														
Nuisances	<p>It is reported to me that the residents of the Triangle - Colombo St, Sumner Rd cannot be prevented from creating nuisances by throwing all their refuse as slops, vegetable matter etc. etc. in the accommodation Road running through. May I inquire if it is possible to obliged persons to have a Dust hole or other means provided for getting rid of such matter? Or when the Council will be in a position to make bylaws to prevent such nuisances accumulating.</p>																														
Page 132 Working Gang	<p>The men are getting on rapidly filling in the Gravel Pits in Cathedral Square. Whilst doing so forming the road round the North West Part.</p> <p>I have the honor to be Gentlemen Your obt Servant Mr F Moore Town Surveyor</p>																														

CHRISTCHURCH CITY COUNCIL ARCHIVES

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Date Range: April 1862-June 1863

Transcription:

	To the Gentlemen of the Municipal Council &c &c &c Christchurch
Item 44 Page 133	Town Surveyors Office December 22 nd 1862
Tenders.	Gentlemen, I beg to report as follows. Tenders are advertised for Barbadoes St from Ferry Road to South Town Belt for Monday next December 29 th 1862.
Stone Kerbing.	The sum of eleven pounds £11 has been received for two chains of Stone Kerbing in Lichfield Street. The stone for this work will be delivered on the spot and laid by the Contractor at 7s per foot.
Brewery's.	I find on examination with regard to the notices served to the Brewer's that they have not up to the present time taken any, permanent steps towards providing for the drainage of their Breweries.
Kilmore St Hereford St Selwyn St	The contractors of these works having finished the work 14 days I pass in the balance's [resp] due to them.
Montreal St	I have had the Culvert put in across Montreal St. South side of Oxford Terrace
Gravel Pit Cathedral Sqre	May I request permission to have the completion of filling in this pit done by public tender.
Bench Stones	I have had the bench stones taken out & propose putting at first one at the South West corner of each of the Street crossings.
<i>Now</i>	I wish again to urge to the Council the necessity which exist to get the drains...
Page 134	at present existing cleared out and side drains in the unformed Streets opened up and I fear with the present working gang of only 8 men that the summer will slip by, & the rainy season set in before one half the necessary works are completed.
Slaughter House Rd	

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Date Range: April 1862-June 1863

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<p>Culvert across Oxford Terrace Lichfield St</p>	<p>I wish again to bring before the Council the necessity which exists of having the Road metalled before the Winter has set in. I see by the Govt estimates for the last financial year that a sum of £500 was voted for this Road</p> <p>I think, as the Gully at present runs through the Church property is about to be filled up it will be advisable to wait until it is & then remove the culvert across the Terrace there to Lichfield Street.</p> <p>I have the honor to be Gentlemen Your obt Servant Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p>
<p>Item 45 Page 135</p> <p>Tenders.</p> <p>Post Office.</p> <p>Mechanics Institute</p>	<p>Town Surveyors Office Decbr 29th 1862</p> <p>Gentlemen I beg to report, as follows,</p> <p>Tenders will be before the Council this Evening for the formation and gravelling of Barbadoes Street from Ferry Rd to South Town Belt. Tenders are advertised for Monday next January 5th 1863 for filling up the gravel pit in Cathedral Square (North West Corner).</p> <p>I have inserted in the Public papers that Sellars the Contractor will remove rubbish etc. from dwelling houses in the City. A Book for entry of persons requiring his services will be kept at this office.</p> <p>I have taken the necessary steps with regard to the Gutters at the Post Office.</p> <p>With regard to the proposed site of the new building for the Mechanics Institute. The South East Corner of the Section is very low, & swampy and if left in its present state would be a serious objection in a sanitary point of view. By levelling the ground this would be done away with the cost of doing which would be from £30 to £35. Any spare earth there...</p>

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Page 136	could be thrown on the ground in front of the section which being also low, & swampy must at some time be filled in.
Manchester Street	This work is completed the usual time, and has been given over by the Contractors. I pass in the file for the account £138.
Names of Streets	As soon as the carpenters have completed the work they at present are engaged in the names of the principal streets will be fixed at the corners
<i>R.M. Court. Paling &c Lumber used 113 feet 216 xx for Battens</i>	The Carpenters have been at work [at the] fence in front of the R. N. new offices during the past week. They will finish on Wednesday next.
Working Gang	The cesspools have been emptied by the Contractor Sellars at a cost of 15 [s] I must again bring before the Council the small number of men employed by the council. The length of streets already formed, and metalled must be kept in order to do [while] it is necessary always to keep two or three men at least employed upon them. At present the men are employed in cleaning up the side drains &c the necessity for which arises from the xx
Page 137	not being sufficient to keep the weeds under, & the present is the most fitting time, as it prevents the seed from flying about. In addition to which there are many small works through the City that require to be done before the bad weather sets in. Under these circumstances as I stated in my last report I fear that the winter will commence before we have done much more than fill in the gullies that at present run across the streets. I have the honor to be, Gentlemen, Your obt Servant Mr Fredk Moore Town Surveyor To the Gentlemen of the Municipal Council &c &c &c Christchurch
Item 46 Page 138	Town Surveyors Office January 5 th 1863 Gentlemen,

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Date Range: April 1862-June 1863

Transcription:

Tenders.	<p>I beg to report as follow.</p> <p>Tenders will be before the Council this evening for filling in the gravel pit in the N. W. Corner of Cathedral Square.</p> <p>I advertised for tenders for forming and metalling Montreal Street from R. Avon to South Belt. Also Salisbury Street from Colombo St to Barbadoes Street.</p>
Bridge over R Avon	<p>I have prepared drawings of a Bridge for Armagh Street over R. Avon which I will lay before the Council this evening.</p>
Drainage.	<p>In accordance with a resolution passed by the Council on Monday 22nd Decbr 1862 I am having the drains in the North East portion of the City cleared out.</p>
Sellars.	<p>By a return laid before the Council this evening it appears that Sellars has emptied 117 pans & the amount due to him £7.6.3</p>
Handbills.	<p>I have had printed and posted about the city hand bills relative...</p>
Page 139	<p>to persons riding &c. on the footpath.</p>
Contractors.	<p>I have visited the various works [in] the hands of Contractors. They are progressing favourably.</p>
R. Avon.	<p>The men commenced this [day] clearing the cress etc. from the R Avon near the Govt Buildings.</p>
Carpenters	<p>The carpenters have finished that fence alterations of cess pools etc connected with the R. M. Courthouse.</p> <p>I have the honor to be, Gentlemen, Your obt Servant Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p>

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Date Range: April 1862-June 1863

Transcription:

Item 47 Page 140	Town Surveyors Office January 12 th 1863
	Gentlemen I beg to report as follows.
Tenders.	Tenders will be before the Council this evening for filling up the gravel pit in Cathedral Square. North West corner. I have advertised for Tenders for Salisbury Street for Monday January 19 th 1863 and Montreal for Monday January 26 th /63.
Working Gang.	In accordance with the permissions granted by a resolution of the Council Monday Decbr 30 th I have increased the no. of men employed by the Council to a total of 16 men. They have commenced filling in the gullies etc. Barbadoes Street.
R. Avon.	I have had the cress cut away from the West bank under the Govt Buildings I would request permission from the Council to have a Punt made. The Govt one is gone away to the Heathcote and we are constantly requiring one. he cost would be about £12-
Bridge over Avon	I have prepared the drawing and specification for a Bridge over the Avon Armagh Street.
Footpaths	The stone kerbing in Lichfield Street is being rapidly completed. The sum of £5-10 has been received from Messrs Lumley & Martin...
Page 141	for Kerbing half a chain in [length]. The council not meeting last month I proceeded with this work.
Names of Streets	I have had the names of streets put up at the corners of the streets in the City (to the no. 17).
Drainage (Resolution 22/12/62)	I have had the Drains on the North side of Salisbury Street cleared out. Also on the West side of Madras St from the North Belt to Salisbury Street. Both at a cost of 6sh per chain The total distance is Chains 40- £12.0.0
X	I would wish to know if it is the intention of the Govt to alter in any way the Ferry Road Drain. Being anxious to get the South Drain [cleared] out.
Sellars	By a return laid before the Council this evening it will be seen that Sellars has emptied 117 pans up to the 31 st December and the account due which is [therefore] £7.6.3
Handbills	I have had printed and posted at the City handbills relative to persons riding on the footpaths.
R M Court	

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Date Range: April 1862-June 1863

Transcription:

Contractors	<p>The alterations in the Cesspools &c &c are completed at the Building of Resident Magistrates Court &c.</p> <p>The Contractors for Armagh Street...</p>
Page 142	<p>wish to draw £100. And of Barbadoes £60. The amt of work done in each case justifies their so doing.</p> <p>I have the honor to be Gentlemen Your obt Servant Mr Fredk Moore Town Surveyor.</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p> <p><i>Four more spades & shovels wanted.</i></p>
Item 48 Page 143	<p>Town Surveyors Office January 19th 1863</p> <p>Gentlemen I beg to report as follows</p>
Tenders	<p>Tenders will be before the Council this Evening for Salisbury St. I have advertised for tenders for Montreal Street South.</p>
Cesspools	<p>I have taken the necessary steps relative to the Cesspools referred to on the last meeting of the Council.</p>
Working Gang	<p>They have been filling up the Gullies in Barbadoes Street. The Carpenters have been employed in making the Punt. The Culvert from Lichfield Street across Oxford Terrace is completed.</p>
Advertisements	<p>I have again advertised about the levels of the Houses being built in the City.</p>
Tools for the working men	<p>I have got eight shovels and four spades for the men employed by the Council.</p>

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Date Range: April 1862-June 1863

Transcription:

Contracts	I have visited the various...
Page 144	works in the hands of the Contractors during the week they are progressing favourable. I have the honor to be Gentlemen Your Obdt Servt Mr Fredk Moore Town Surveyor To The Gentlemen of the Municipal Council &c &c &c Christchurch
Item 49 Page 145	Town Surveyors Office 26 th January 1863 Gentlemen, I beg to report as follows,
Tenders –	Tenders will be before the council this evening for the formation and metalling Montreal Street from Tuam Street to St Asaph Street.
Stone Kerbing	The stone Kerbing in Lichfield Street is completed and will I am induced to think from its appearance and what I have heard be the means of its (stone) being much more generally adopted than wood for a similar purpose.
South Belt.	I have had the necessary work done for relieving the West portion of this Belt from the surface water.
Blue Gums.	I have got the Blue Gums for planting in Oxford Terrace in the place of those that died. Working Gang One portion are at the drainage works in the South East portion of the City. The remainder forming the road round Cathedral Square North West Corner. Names affixed to Streets I have had the names of the Streets affixed as follows Miss [Skillicone] – Hereford & Colombo Mr. Nathan – Cashel Street
Page 146	Mr. Ollivier – Cashel Street

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	<p>Mr. Hislop – Lichfield, & Colombo Mr. Gould – Gloucester, & Colombo Mr. Wilson. Lichfield & Manchester Standard Office. Hereford St Mr Fielders – Kilmore & Colombo St Dr Turnbolls Shop Armagh St Mr [Alport] – Armagh & Colombo Mr Mxx Kilmore St;</p>
Tenders	I have advertised for tenders for the 2 nd Febry 1863. For the road round the South East part of Cathedral [Square].
Tuam St	I wish to know if it still is the wish of the Council to put an additional 10 yd cube of gravel on Tuam St. from Montreal Street to the Lincoln Rd. that I may make the necessary arrangements with the Contractor. From Oxford Terrace being closed a great deal of heavy traffic has been thrown upon this prat of the road.
Drainage	The clearing of the Drains in the North East portion of the City are completed. I pass in a bill for the last 19 chains at 7sh per chain £6-13-.
Page 147	<p>The South Drain will be finished tomorrow The most important open drains in the City will then be in an efficient state.</p> <p>I have the honor to be Gentlemen Your obt. Servant Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p> <p>P.S. The drain from the water trough is completed at a cost of £13-15- The sum of £8.5s has been paid in by Mr Lucas for footpath & Kerbing (Stone) in Cathedral Square. North East Corner.</p> <p><i>1 ½ chains at £5.10 1-</i></p>
Item 50 Page 148	<p>Town Surveyors Office February 2nd 1863</p>

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Tenders –	Gentlemen, I beg to report as follows, Tenders will be sent in to day for the formation, and gravelling of the road round the South East corner of Cathedral Square form Colombo St to Worcester St. Tenders for Colombo St North will be before the Council on Monday next Febry 9 th 1863.
South Drain.	The clearing out of this important drain is completed in a workmanlike manner at a cost of £33.12.0 being at the rate of 8sh per chain. Distance 84Ch:
Mr Brooks	I have received the accompanying from Mr. Brook's in answer to a letter sent from this office relative to the level at which he has erected his house in Cathedral Square.
Gravel.	I may mention that during the past week the sum of £11.14.0 was received for Gravel from private persons and the total cost incurred in quarrying, and carting the same £5.17.0
Kerbing	The same of £11.15.2 has been received for forming footpath & wooden Kerbing from Dr xx residence to Mr Rules...
Page 149	on the East side of the Ferry Road. This money has been in course of collection ever since the footpath, and Kerbing was found on the West side of the Ferry Road. And is probably last wooden kerb that will be put down. I wish to know if the Council would like to have a further supply of the same stone at the same cost so as to have a stock always on hand the present cost is 2s-0d pr foot. delivered at the yard. [Courtenay] is prepared to continue laying the stone at xx.
Punt	The punt is completed at a total cost of £12-12 being /2sh more than estimated cost.
Nuisances & Fever	I consider it my duty to bring to the notice of the Council the present unhealthy state of the City, which I am informed on reliable authority is more now than it has been for the two or three past years. The cases of fever which are going about and generally [terminate] fataly can I imagine be only attributed to nuisances. That and the want of sufficient...
Page 150	supply, as well and in many cases the want of drainage from private sections. To look after these all important matters (nuisances etc) would I consider occupy the whole of one officers duty: to be done effectively – I trust that the Council will [will] consider this matter that strenuous efforts may be made to have the City kept in as healthy a state as possible.
Water	I have a meeting this day with Mr Lane and his partner relative to laying on water into the City on Monday next I shall be prepared to lay the whole matter duly before the Council.

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Transcription:

	<p>I have the honor to be Gentlemen Your most obt Servant Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p>
Page 151	<p>P.S. I have received a letter from Mr Hadley requesting permission to have the foot in front of his house under the verandah paved with 9' square tiles.</p> <p><i>To grant permission [& report] chairman</i></p>
Item 51 Page 152 Artesian Wells	<p>Town Surveyors Office 16th February 1863</p> <p>Gentlemen I beg to report as follows</p> <p>I have been in Communication with Mr Hadley who has promised to send in his estimate this evening.</p> <p>Accompanying this there is a Letter from Mr Lock stating the terms on which he will undertake the duties of Inspector of Nuisances – he has been engaged since Wednesday the 11th inst Carrying on the duties.</p> <p>I have the Honor to be Gentlemen Your OBedt Servt Mr Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p> <p>P.S. I trust the Council will excuse my not being down to night in consequence of my face being very bad Mr Fredk Moore Town Surveyor</p>

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Date Range: April 1862-June 1863

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Page 153	<p>Christchurch February 10, 1863.</p> <p>Sir, I shall be obliged if you will inform the Municipal Council of Christchurch at their next sitting that I am willing and ready without delay to enter upon the discharge of the duties of the Office of Inspector of Nuisances for that City respecting which you spoke to me this day. And further, that I am agreeable to receive a Salary of Three Pounds three shillings per week in full remuneration for my time, trouble &c. employed in the discharge of such Office.</p> <p>I Remain Sir Your most obedient Servant Samuel Lock</p> <p>To Fredk Wm Moore Esq Town Surveyor of Christchurch.</p>
Page 154	<p>Mr Hadley will agree to bore 3 wells 20 feet deep and up to 30 feet deep if requisite he will supply Piping 2 inches in diameter Also a 3 inch Pump complete and will keep the same in repair for 3 months for Twenty one pounds each £21.0.0</p>
Item 52 Page 155	<p>Town surveyors office ChCh February 23rd 1863</p> <p>Gentlemen, I beg to report as follows, During the past week I have visited the whole of the works in course of execution in the City and find they are progressing in a favourable manner.</p> <p>Asphalt. I have received the accompanying letter from Messr Lowrie & Co relative to laying down asphalt, by which it will be seen that they are prepared to lay the pavement out from 20sh to 17sh per square yard.</p> <p>Stone Kerbing I have received an application form Mess Luck & Clark to have the footpath formed and stone Kerbing laid down for a distance of sixty (60) feet.</p> <p>Tuam & Colombo Streets These works are completed – Balance due £120</p>

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Barbadoes St North	This work is completed Balance due £60
Barbadoes St South	This work is completed Balance due £75
Armagh St	This work is completed Balance due £175.5
Page 156 Culvert across the Lincoln Rd in St Asaph Sts	On going carefully over the [level] of the West end of St Asaph St. If that side drain which I have had cut on the South side from the Lincoln Rd to the Windmill Rd falling into the ditch drain on [the] West side of the same will [suffice] to take the water from a ditch drain running along the Back Fence of the property now occupied by Mr Blackiston on the East Side. This latter ditch can easily be [made] available to drain the whole of [the] paddock, as well, as the ground [in] which the house stands, or the [paddock] drainage may in a great [measure] be taken off at the North West corner by the same side drain to the Windmill Road.
St Asaph St East	It appears that on the [completion] of the forming and metalling of St Asaph St from Manchester [St] to Ferry Rd and portion of Madras [St] that Mr Marshall the contractor formed , and metalled half a [chain] more than was specified in the contract for which he claims £4.5 the tender having being £9.0.0.
Cathedral Sq North West	The road running around this [part] of Cathedral Square filling [up]...
Page 157	the large gravel pit which was open there, and forming the continuation from there down to Oxford Terrace will be completed tomorrow by hired labor. The cost will be under £90. The amount of the lowest tender for the same work was £161.6. The formation being completed; might I suggest to the Council that it should be gravelled the cost of which would be about £50. I may further add that in executing the work a portion of Gloucester St: between Manchester St & Latimer Square has been formed.
R. Avon.	Since the new punt has been in the River she has been found to answer the purpose for which she was built admirably – and to be exceedingly well built two men have been employed in clearing the Cress. I would much wish to know what are the exact boundaries both up and down the River that are in the care of the Council.
Ferry Road Drain	Having seen, & read a report from the Provincial Engineer relating to the Ferry Road drain may I respectfully call the...

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Page 158	attention of the Council to a report on the same subject from myself contained in my xx report on the same subject 18 th August 1862 as well as xx in other reports relative to the drain – having the same tendency as the report now before the Council.
Tuam Street.	From Montreal St to the Ferry Road 10 yds Cube of additional gravel have been placed for a distance of 19.30 chains which at 3s.4d per yard, xx comes to £32.1.8. I may say that the [piece] of gravel we [have] been working out for some time has been far better that [any] we have yet found. Xx large quantities of gravel have lately been [using] from the Gov Domain may I [beg] that the pits which have been opened there be filled in xx formation of Hereford Street this work was sanctioned by the Council some time [ago] but from the low state of the funds there at the disposal of the Council, I suggested that although the whole...
Page 159	length from the R Avon to Antigua Street was advertised the street should then only be made, as far as Montreal St. & the continuation at a future time. I may add that the road is quite impassable for gravel carts for the works and that the contractor now gravelling Columbo St: North has to draw over Montreal Bridge and so along Oxford Terrace.
Colombo St Bridge	I wish to bring under the notice of the Council the state of this Bridge the [runners] of which are so thoroughly rotten that were any increased traffic thrown upon it – the Bridge would be rendered unsafe. Without stripping the whole it would be impossible to give an accurate estimate of the cost of repairing – But I am of opinion it would not cost over £20
Ferry Road Stone Kerbing	The amount of Kerbing paid for on the East side of the Ferry Road has been laid
Contractor Sellars.	I have this day received the accompanying...
Page 160	letters from Contractor Sellars. It also appears that he has been removing the night soil to a section in St Albans near the houses, & complaints have been made of the nuisance created. I sent for him he states that he is unable to get to the reserve by the Slaughter house in consequence of xx this he never told me before he always led me to believe that he deposited the soil there. I have made arrangements to [meet] him there tomorrow morning. The Gov have metalled the Slaughter house road only as far as the last turning in the yards.
	I have the honor to be Gentlemen Your obt; Servant Mr Fredk Moore Town Surveyor
	To The Gentlemen of the Municipal Council &c &c &c Christchurch

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Date Range: April 1862-June 1863

Transcription:

Item 53 Page 161	<p>Town Surveyors Office ChCh February 23rd 1863</p> <p>Annual Report</p> <p>Gentlemen, I beg to report as follow, The principal works that have been executed during the past year have been the formation of many of the streets in the City. –</p> <p>The following are the streets in which these works have been carried on, with the length in “chains”, which have been both formed and metalled -</p> <p>Armagh St - 84 Colombo St - 60 Hereford St - 46 Manchester St – 34 Montreal St - 37 Lichfield St - 28 Cashel St - 29 Madras St - 50 Tuam St - 60 Salisbury St - 11 Durham St - 18 Gloucester St - 11.50 Worcester St - 8.50 Kilworth St - 22</p>
Page 162	<p>St Asaph St - 13.50 Barbadoes St - 14</p> <p>Making a total length of streets Formed, and metalled of 546.50 chains, or six miles, and one half, and 143 yards. (6 ½ miles 143 yds)</p> <p>Portions of streets formed only Barbadoes St 15 chains Selwyn St 11 “ Being a total of 26 chains formed without being metalled.</p> <p>At the present time in the hands of contractors for formation, and metalling Salisbury St - 10 chains</p>

CHRISTCHURCH CITY COUNCIL ARCHIVES

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Transcription:

	<p>Montreal St - 5 S.E. Cathedral Sq 6.50 Colombo St 20 Being a total of 41.50 chains</p> <p>In the hands of contractors for formation only Salisbury St 24 chains</p> <p>The above constitute the whole of the portions of streets that have been, or at present are in the hands of contractors. By hired labor Cashel Street has been reformed, and...</p>
Page 163	<p>metalled for a distance of 16 chains.</p> <p>Also by hired labor the road round the North West corner of Cathedral Square with the continuation to Oxford Terrace has been formed but not metalled. A distance of 11 chains. From the above it will be seen that from works completed; those partially so, and those at present in hand, that a total distance of streets that have been, and are being made is 665 chains or 8 ¼ miles.</p> <p>Before leaving this subject I cannot refrain from laying under the notice of the Council the reasonable rate at which the above works have been executed.</p> <p>=====</p> <p>Footpaths</p> <p>The formation of Footpaths with Kerb's (assisted by voluntary contributions) has in the principal parts of the City been rapidly proceeded with.</p> <p>The total length of wooden...</p>
Page 164	<p>Kerbing formed is 124 chains, or 1 ½ mile's & 4 chains.</p> <p>Stone Kerbing has latterly almost if not quite superseded the wood; and though but a short time has elapsed since the stone has been delivered already a length of 29 ½ chains has been laid down, and trust that ere long, the council will [have] decided upon laying down the stone side channels; I may add that footpaths are in the worst streets in the City being rapidly formed by hired labor form opening up the side drains.</p> <p>Drainage</p> <p>By the formation of the streets the drainage of the main parts of the City have been secured.</p> <p>Clearing Flees Creek which was done for a distance of 22 chains conferred great benefit upon the neighbour[hood]. Before the close of the last Winter side channels were open in Tuam St:</p>

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Date Range: April 1862-June 1863

Transcription:

	Lichfield St: Hereford St. & Barbadoes St. in the South East quarter of the town, and though late...
Page 165	<p>in the season proved to be of great benefit, carrying off a large quantity of water, down Barbadoes St, into Ferry Road drains.</p> <p>Other side drains were also opened in Latimer Square, and Gloucester Street. Also the East Town Belt etc.</p> <p>The whole of the existing drains in the North East portion of the City have been thoroughly cleared, also the South drain; the drain on the West Side of the Wind Mill Road.</p> <p>Side drains have been opened in St Asaph Street West – portions of Peterbro St: - Salisbury St: and many minor works of this kind have been done.</p> <p>The River Avon has been kept clear both above the mill [sluice], and below for which purpose a punt has been built by our own carpenters.</p> <p>The Bridges under the charge of the Council have had good and proper rails put to the approaches. They have been painted & the Foot bridge in Worcester Street having given way has been repaired...</p>
[And] now, on a more extended scale are being carried out	
Page 166	<p>thoroughly, and is quite, as good, as when first built; the present state however of the Colombo St Bridge is very bad, and requires speedy repair: many small repairs have been made to the lesser bridges; culverts have been put down in many places – where required.</p> <p>Gullies across Streets have been filled in, and made passable at any time, and where required filled in, so as to take the surface drainage over them particularly in the South East portion of the City.</p> <p>A Tool house, and yard have been built for keeping the Plant in which though amply sufficient at the time is now too small; especially the yard.</p> <p>The Government having fenced in a large portion of the river bank on Oxford Terrace the intervening space has been planted with forest trees &c.</p> <p>The Kerbing round the same space is completed with stone this being the first stone Kerbing of any length used in the City</p> <p>After many plans and much discussion, as to the...</p>

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Date Range: April 1862-June 1863

Transcription:

Page 167	<p>best method of Lighting the City; as, an experiment it was tried with two lamps burning "Kerosine" on the the Papanui Bridge: for the first month lighted by Contract (£12.7.0) and after by the Council. The experiment showed that "Kerosine" was not fitted to light the city.</p> <p>Strong efforts have been made to improve the sanitary conditions of the City. The old plan of cesspools has been condemned, and pans substituted, which pans to be emptied at least once in 14 days. For this purpose a contract has been taken.</p> <p>After two ineffectual efforts to obtain a person fitted to fill the position of inspector of nuisances. I think that object has been at length achieved.</p> <p>In the principal thoroughfares that names of the streets having being printed upon boards have been affixed.</p> <p>For the preservation of the corners of the newly formed footpaths. Posts painted white have been put in.</p> <p>Contracts have been entered into for the supply of Timber...</p>									
Page 168	<p>for the works of the Municipality with Messrs Aikmen & Knight at the rate of 27sh per 100 sup Feet</p> <p>Also; with Messrs Woodman, and Knight for the supply of such horses, & carts, as may be required for the works at the following scale –</p> <table data-bbox="359 1429 790 1534"><tr><td>Double Teams –</td><td>Cart & man</td><td>£1.5.0</td></tr><tr><td>Single</td><td>“ “</td><td>£1.0.0</td></tr><tr><td></td><td></td><td>pr diem</td></tr></table> <p>Supplying the stone Kerbing is a contract work a length of 750 ft being delivered for £100 at the yard.</p> <p>Stone bench marks permanent have been put in, at the corners of the streets already formed, and as opportunity offers will be over the whole city.</p> <p>Some difficulty was at first experienced, as to obtaining a good, and sufficient supply of gravel. A portion of the Govt Domain was fenced off; but the gravel there was anything but what it should be. A large supply has been obtained from the N W Corner of Cathedral Sqr; Also from a Pit opened in Armagh St: the latter two are now, the one completely ...</p>	Double Teams –	Cart & man	£1.5.0	Single	“ “	£1.0.0			pr diem
Double Teams –	Cart & man	£1.5.0								
Single	“ “	£1.0.0								
		pr diem								
Page 169	<p>filled in the other being nearly so. Arrangements have been made to allow private persons to obtain gravel, which is delivered to them at a cost of yard cube sufficient to cover the actual expense incurred in quarrying, and carting.</p>									

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<p><i>yds Cube Sold. 104 ! 6s.6s pr yd. £33.16.0</i></p>	<p>The office accommodation being found insufficient for the duties of Town Surveyor, and Town Clerk a new office was built for the latter attached to the same building. I may be pardoned if I say that the present office of the Town Surveyor is quite unfit for the work there is to be done. Very soon there must be a large quantity of draughting done, which it is nearly, impossible can be in the present room where the slightest step produces a heavy vibration through the whole floor.</p> <p>A great deal has had to be done in keeping the streets in a state of repair such, as breaking the large stones, as they work...</p>
<p>Page 170</p>	<p>to the surface; raking in the cart ruts; keeping down vegetation (weeds etc), and keeping the side channels clear &c. &c. &c.</p> <p>I have made the few preceding short remarks on the works which have been going on & carried out during the past year, under the impression that it being the close of the financial year they will be acceptable to the Council. I would have entered more into detail, but I feared I should be trespassing too much on the valuable time devoted by the Municipal Council to their all important duties.</p> <p>I have the honor to be Gentlemen Your obt; Servant Wm Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Committee of the M C Council &c &c &c Christchurch</p>
<p>Item 54 Page 171</p> <p>Tenders</p>	<p>Town Surveyors Office March 2nd 1863</p> <p>Gentlemen, I beg to report as follows;</p> <p>I have advertised for Tenders for the formation, and metalling of Hereford Street from the West side of Montreal Street to the East side of Antigua Street. The tenders will be before the Council on Monday next March 9th /63. Also for the supply, and delivery of 1000 yds of stone Kerbing. The tenders will be before the Council Monday March 16th 1863.</p>

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<p>Stone Kerbing <i>In consequence of some error of measurement I have not passed in this bill this Evening</i></p> <p>6 ocl PM. Courtney agrees to lay the stone at 4d pr Foot.</p>	<p>I have received an application from Mr Gould to have stone Kerbing laid in front of his new house in Colombo Street a distance of 54 links.</p> <p>Mr Courtney, the man who lays the stone Kerbing has completed a distance of 381ft being feet 202 East side Ferry Road 99 Cathedral Sqr N.E. Corner. 80 Gloucester Street</p> <p>at a cost of £11.2.3 being 7d pr lineal foot.</p> <p>I have made an offer to him to continue laying the stone at 4d pr foot which I consider to be fair value and at which cost should he not agree, we can lay it with our own men.</p> <p>The whole of the 750 feet lineal of stone Kerbing that was contracted for has been delivered by the Contractor Moses Rees & Courtenay. The acct for that length...</p>
<p>Page 172</p> <p>Oxford Terrace Footpath</p> <p>Pumps in the City <i>x Since writing this I have seen Mr Hadley who says that they will bring water which I have since seen myself.</i></p> <p>City Mill & Water supply</p>	<p>being £100 balance now due £80.</p> <p>The hollow places in this footpath between Hereford St, & Montreal St: have been made good.</p> <p>The footpath on the North side of the N.E. Corner of Cathedral Square is completed. The others are rapidly progressing.</p> <p>Mr Hadley has completed his borings in front of Mr O'Hara's and Mr Rudenclau's [sp Rudenklaue] and fixed the pumps. Neither of the pumps however will fetch water. The pumps are being badly, and insecurely fixed.</p> <p>With regard to supplying the City with water from the R. Avon. It is a place which under the circumstances I should feel justified in reconnecting for in addition to the water being unfit for general use (and yearly becoming more, and more impregnated with vegetable matter) any system that could be carried out would only be temporary, and the advantages gained would not be sufficient to justify so large an outlay, as would be incurred in carrying out the necessary works. To lay down the mains – alter the Mill - Build Tanks. Forming fire [plugs] at regular intervals through...</p>
<p>Page 173 <i>approximate estimate</i></p> <p>Nuisances</p>	<p>the City. The pipes being laid for a distance of about six (6) miles. The cost would be about £6500- This since it was proposed by Mssr Bowley & Lane to [advise] and carry out the works on the City Council guaranteeing them 20 p/cent on the outlay. The Council to derive all benefit from the supply of water to private houses. Etc.</p> <p>With reference to the nuisances so much complained of at Mr Cooks Corner (Cashel St & Manchester St) it arises from his rendering down fat which creates a nuisance. I should much like to know if it is in the power of the Council to prevent this being done, in the City.</p>

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Date Range: April 1862-June 1863

Transcription:

St Asaph Street West	With reference to the Memorial from the inhabitants of St Asaph Street West. The present side Drain that is opened upon the South side of the Street is on the lowest side. This portion of the Street is quite impassable for Carts during the rainy season and the inhabitants on the North side can easily relieve their premises from water by cutting steps...
Page 174	across the road to the existing drain.
Working Gang.	One gang of men are at present engaged on the drainage of the South East portion of the City. Another in carrying out the resolution of the Council of Monday last (in Cathedral Square). In accordance with a resolution of 20 th Octbr 1862. I have temporarily given a man (Rowlee) a shilling pr diem to act as a ganger while this work is going on.
Mr Brooke's House	The extension of time asked for, and granted by the Council for Mr Brooke to raise his house Cathedral Square expired on Saturday last. No steps have however been taken in the matter.
Kerosine	There are 20 galln of Kerosine left from what was got from Mr Taylor & Co Lyttleton which I am compelled to keep in the tool house. May I ask if it is the intention of the Council to again try the lamps with this oil on the bridges or whether I shall take steps...
Page 175	to dispose of it.
Bricks	From pulling down the magazine which formerly stood close to the present buildings (offices) we have have about 1500 Bricks - which I cannot see will be of any use on the works. - which might also be disposed of.
Columbo St Bridge	I have had this bridge stripped & find that the beams are very rotten. It will require a total length of 80ft of 12"x6" pr 480ft suitable timber. Not being able to obtain this sized timber from our Contractors. I saw Mr Wylde who kindly consented to let me have it from the Public Wks Yard.
Reserves for [depositing] night soil &c.	I have visited the Reserve near the slaughter house and find that though the Road is metalled sufficiently far for the slaughter house purposes, the road to the reserve's (sand [hills]) is as impassable as ever. A swamp occupying the whole space between the Yards and the Boundary Fence of the Road on the North Side. For the present however I have given the Contractor permission to put the night soil ...
Page 176	on Mr Philpots property in St Alban's – in such a position as not to create a nuisance to the neighbourhood. I have the honor to be Gentlemen Your obt Servant Wm Fredk Moore

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Transcription:

Armagh St	<p>Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p> <p>P.S. That portion of Armagh Street between Madras St.; & the East Town Belt is completed, & the gravel pit that was open in the same street filled up I pass in a bill for the whole account due to the Contractors.</p> <p>Balance due to Contractors £210.0.0</p>
Item 55 Page 177	<p>Town Surveyors Office March 9th 1863</p> <p>Gentlemen, I beg to report as follows,</p>
Tenders	<p>Tenders will be before the Council this evening for forming, and gravelling Hereford Street from the West side of Montreal Street to the East side of Antigua Street.</p> <p>Tenders will be before the Council on Monday Evng next for the supply of 1000 yards of stone Kerbing.</p>
Stone Kerbing Columbo St	<p>I have communicated with Mr Gould he is willing to pay the whole cost of the Stone Kerbing in Front of his new building in Columbo St, and one half the cost of raising preparing the footpath.</p>
Kerosine	<p>I have disposed of the remainder of the Kerosine for £4.10sh rather more than the cost price with the addition of cartage from Lyttelton.</p>
Post office	<p>I received a complaint from the authorities at the Post Office relative to the leakage of the gutters, and the want of provision to carry off the water from the spouts of the Buildings. I have set a man to work to repair where required the Roof and to take the water away from the Building to the side drains will require a length of 40 feet...</p>
Page 178	<p>of drain tiles. Before putting them in I wish for the sanction of the Council.</p>
Horse, & Cart	

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Transcription:

Hadleys Borings	<p>From the numerous small works now going on, and the constant necessity of having a cart, & horse daily at work I cannot but think that it would be a saving to the Council to have a cart & horse of their own on the works for which constant employment would always be found. Such as carting the Kerbing to the various works, loads of gravel are constantly required upon the newly formed streets, taking away the clearings of side drains and many other small works too numerous to mention.</p>
Reserves for depositing night soil etc.	<p>The Two Pumps completed the one in Front of Mrs Ohara's, and the other Mr Rudenclau's [sp Rudenklau's] the water is not good, being offensive both to taste, and smell more particularly the latter from the nature of Mr Hadley's agreement I do not see what can be done to improve them. I have communicated with him relative to fixing the pumps.</p> <p>Accompanying this report is a sketch shewing the position of the reserves near the...</p>
Page 179	<p>slaughter house. They are edged with green – from A to B the road is a swamp. Section 107 is the Slaughter house Reserve. I was not aware that there was another reserve 210 to which access may be had by going through 107. The section 210 was not given to me when I got the reserves some months back from the Gov' Buildings, and where on the ground the other day a man claimed this section, as his property.</p>
Laying Stone Kerbing	<p>Mr Courtney who has been laying the Stone Kerbing has completed 499.9 feet being Gloucester St: 80 ft Cathedral Sqr NE 99ft High Street 33 Ferry Road E Side 207.9 At 7d pr foot £14.11.6 less a previous overpayment of 19sh leaves Balance due £13.12.6</p> <p>I have the honor to be Gentlemen Your most obt Servant Wm Fredk Moore Town Surveyor</p> <p>To the Gentlemen of the Municipal Council &c &c &c Christchurch</p>
Item 56 Page 180	<p>Town Surveyors Office March 16th 1863</p> <p>Gentlemen,</p>

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Date Range: April 1862-June 1863

Transcription:

	I beg to report as follows.
Tenders	Tenders will be before the Council this Evening for the supply of 1000 yards of Stone Kerbing. I have advertised for tenders for the Bridge the West end of Armagh Street.
Hereford St	The contractor J Eaton for this work begs that the Council will permit him to [throw] up his contract as he will not be able to fulfil it.
Working gang	During the past week the clearing out of the side drains in the newly formed streets has been completed, and the formation of the road round the South West corner of Cathedral square is being proceeded with.
Supply of Water for the City.	In consequence of not having got the levels complete I beg to request the council to wait till Monday next for a report upon this subject.
Salisbury St	I pass in a bill of £88 for the...
Page 181 <i>15 yards will do</i>	Contractors of this work which from the amount done they are entitled to. If I might suggest to the Council I would recommend that the formation be gravelled with 20yds cube pr Chain. The cost of doing which would be £100.
Cathedral Sq. South East.	I pass a Bill for £25 to which the Contractors are entitled from the amount of work done.
Mr Lane's drainage	I have seen Mr Lane relative to putting down the drain tiles across Cambridge Terrace near his Mill bridge he expressed it as his opinion that he is not bound to do so. I have the honor to be Gentlemen Your most obt Servant Wm Fredk Moore Town Surveyor
<i>South Drain bridges</i>	To the Gentlemen of the Municipal Council &c &c &c Christchurch
Item 57 Page 182	City Surveyors Office March 30 th 1863. Gentlemen,

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Transcription:

Tenders These tenders will be before the Council 13 th April 1863	I beg to report as follows. I have advertised for tenders for the following works. The formation, &metalling of Cashel St from the West side of Barbadoes St: to the West side of the East Town Belt.
20 th April 1863	Also Montreal Street from the North side of Armagh St: to the Papanui Road going round the East side of Cranmer Square.
13 th April 1863	Also, the road going round the North East corner of Cathedral Square to Manchester Street.
20 th April 1863 6 th April 1863	Also Oxford Terrace from Manchester Street to Kilmore Street. Also to metal the Road round the West side of Cathedral Square and from there to Oxford Terrace being part of Worcester Street.
The house in Barbadoes St:	I have written to Mr Wilson the owner of the House standing on the public Road in Barbadoes Street near the River Avon requesting him to remove the same.
Page 183 East Town Belt	I have taken the levels along the East Town Belt, the section of which accompanies this report. I found only a difference of 4" in the level of the waters of the River Avon to what it was when Mr Bray took the levels of the City source years ago.
Cathedral Square South East <i>The other sureties name is xx</i>	Finding that the Contractors Jacobs & [Halligan] for the formation &c of this part of the square could not be got to proceed with their works. I communicated with Duncan one of their sureties informing him that he in conjunction with the other surety must complete it. To which Duncan acquiest.
Lime & Drain Tiles	I wish the permission of the Council to dispose of the Lime which was taken off the Powder Magazine when taken down. Also the large drain tiles which were taken up from Columbo Street on the formation of Lichfield Street. The yard at the tool house etc. being so small...
Page 184 <i>What would it cost? £40</i>	that there is barely sufficient room to contain the plant actually in use. Whilst the timber &c &c has to remain outside – I am not aware for what length of time it is probable the Plant of the Council will [remain] upon the present ground. But if for long I should strongly recommend the yd if not the Tool House to be [enclosed]. The latter from there not being any covered place for carpenters or others to work in wet weather.
<i>Surveyors Office</i>	I may at the same time be pardoned if I again refer to the office of the City Surveyor. Which is increasingly totaly unit for the purpose to which it is applied. As is well known it is lighted by

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Transcription:

	two small dormer windows and unless exactly in front of these it is quite impossible to have sufficient light for draughting. There are...
Page 185	necessarily three in the office the third being the Inspector of Nuisances. Every footstep shakes the whole floor to an extent which would render any attempt to draw a folly. Before long it will be essentially necessary that the drawings which are so necessary to be kept up must be commenced. In the present office as stated this would be next to impossible And I may add that for a person holding so important a position, as City Surveyor of Christchurch where the quantity of work, & responsibility are daily increasing a more commodious & convenient an office would be a great boon.
The Working Gang.	The gang of men who have been at work in forming the Road round the West side of Cathedral Square have completed their work there. There still remains a large quantity of muck...
Page 186 Gloucester Street	in Gloucester Street between Latimer Square, and Manchester Street which was not required in Cathedral Square. If it still continues to be the wish of the council that the formation should be completed by the men. The surplus muck may with advantage be taken to Latimer Square so as to level it – previous to its being laid out in such manner as the Council may hereafter approve of.
Manchester Street	The other gang of men who have been employed in the South East of part of the City have now commenced the drainage of the streets running from Tuam St to the South Drain. The drain in Barbadoes Street being sufficient to take off all supplies I deemed it inexpedient to carry more water to the East Belt until something more definite was decided on regarding it. While on the subject...
Page 187	of the working gang. I wish to bring under the notice of the Council the conduct of Mr Pavit the Foreman of works to whose indefatigable zeal and unwavering patience so much success has attended not only the works performed but also the class of men employed. I feel convinced that were the whole of Canterbury searched it would be impossible to find anyone so well suited to his place as Pavit is from whom I have received so much valuable assistance and I trust the Council will show their appreciation of his valuable services by raising his salary to £4 pr week. It will then be far below the parallel position of one in the Public Works Departments.
Brewery's	With regard to the drainage of the Brewery's. although the Inspector of Nuisances has made no mention of the existing nuisances about some of the Brewerys...
Page 188	I am convinced they exist. The question with reference to their not being permitted to drain into the side drains of streets in accordance with a resolution passed by the "Municipal Council" the question at the time fell to the ground in consequence of a wanting power to

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Date Range: April 1862-June 1863

Transcription:

Stone Kerbing	<p>enforce. I wish to know if it is the intention of the City Council to have the previous resolution carried out.</p> <p>I have received the accompany letter from Mr Jones wishing to have his footpath on the East side Ferry Road made & Kerb's. The distance is only 28 feet.</p>
Pumps <i>Tell Hadley to complete his contract</i>	<p>The state of the two pumps that are fixed is very unsatisfactory the one in front of Mrs O'Hara's will bring water but only in a very small stream. The one in front Mr Rudenclau will not bring water unless assisted by water being poured down the pump that the supply here is not good is evident..</p>
Page 189 Madras St Bridge	<p>from the hose of the Fire engine exhausting the whole supply of water in less than 10 minutes. With regard to the corner opposite the Brittania Hotel the pipe is still in the ground with no appearance of water at all.</p> <p>On the subject of the portion of Road from the Northside of Chester St to the present approaches to Madras St Bridge I have written to the Ass.t Prov. [Assistant Provincial] Engineer but have received as yet no reply.</p> <p>I have the honor to be Gentlemen Your most obt Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the ChCh City Council &c &c &c Christchurch</p> <p>PS. Mr Lock's report accompanies this – I am exceedingly sorry that I am not prepared yet to lay before the Council a report upon supplying the City with water But they may depend on having it.</p>
Item 58 Page 190 Tenders	<p>City Surveyors Office ChCh 6th April 1863</p> <p>Gentlemen, I beg to report as follows,</p> <p>Tenders will be before the Council this evening for the construction of a Bridge over the R. Avon at the West end of Armagh Street.</p>

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Date Range: April 1862-June 1863

Transcription:

Tenders advertised for	Also, for metalling the Road round the N.W. & S.W. corners of Cathedral Square and from the square to Oxford Terrace.																																		
April 13 th /63	Cashel Street from West side of Barbadoes St to West side of East Belt. Madras St from St Asaph St to South Drain.																																		
April 13 th /63	The Road round N.E. corner of Cathedral square & thence to Manchester Street.																																		
April 20 th /63	Montreal Street from the North side of Armagh St: to the Papanui Road.																																		
April 13 th /63	Oxford Terrace from Manchester St to Kilmore St.																																		
Estimates	I give the following approximate estimates for the information of the Council																																		
Page 191 Estimates	<p><u>Amounts due on present Contracts</u></p> <table> <tr><td>Montreal St. South</td><td>£108. 0.0</td></tr> <tr><td>Salisbury Street</td><td>100. 0.0</td></tr> <tr><td>Columbo St. North</td><td>85.10.0</td></tr> <tr><td>Hereford Street</td><td>110. 0.0</td></tr> <tr><td>Cathedral Square S.E.</td><td><u>32.10.0</u></td></tr> <tr><td></td><td>£ <u>436. 0.0</u></td></tr> </table> <p><u>Works sanctioned</u></p> <table> <tr><td></td><td>£ s d</td></tr> <tr><td>Bridge over Avon</td><td>520.0.0</td></tr> <tr><td>Cashel Street</td><td>200.0.0</td></tr> <tr><td>Cathedral Square</td><td>108.0.0</td></tr> <tr><td>Oxford Terrace</td><td>280.0.0</td></tr> <tr><td>Montreal Street</td><td>250.0.0</td></tr> <tr><td>Contract for 1000 stone</td><td>£362.10</td></tr> <tr><td>One half voluntary cont.</td><td>181.5.0</td></tr> <tr><td>Cathedral Sqr. Metalling</td><td></td></tr> <tr><td> West side</td><td><u>80.0.0</u></td></tr> <tr><td></td><td><u>£1619.5.0</u></td></tr> </table> <p>By the above it will appear that a sum of £436.0.0 is due on existing Contracts and 1619.5.0 on works sanctioned by the council</p> <p>Being a total of <u>£2055.5.0</u></p> <p>The present balance of the Council at the bank is £2900.0.0</p> <p>Leaving on the completion of...</p>	Montreal St. South	£108. 0.0	Salisbury Street	100. 0.0	Columbo St. North	85.10.0	Hereford Street	110. 0.0	Cathedral Square S.E.	<u>32.10.0</u>		£ <u>436. 0.0</u>		£ s d	Bridge over Avon	520.0.0	Cashel Street	200.0.0	Cathedral Square	108.0.0	Oxford Terrace	280.0.0	Montreal Street	250.0.0	Contract for 1000 stone	£362.10	One half voluntary cont.	181.5.0	Cathedral Sqr. Metalling		West side	<u>80.0.0</u>		<u>£1619.5.0</u>
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Page 192	the above works a balance of £844.15.0																																		

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Date Range: April 1862-June 1863

Transcription:

Estimates Con	<p>Expected Timber Acc for the year £550. 0.0 Weekly pay sheets at present (for the remr of the year) rate pr ann <u>1500. 0.0</u> <u>£ 2050. 0.0</u></p> <p>Thus at the close of the year the Council will be £1205. 5.0 in debt (without rates) which should bring in about £2000 pr annum (at 6d rates). In addition to the above there are salaries and incidental expenses.</p> <p>The average cost of cutting the side drains of streets is 8sh pr chain therefore to continue the following streets to the East Town Belt the cost would be as follows.</p> <table style="margin-left: 100px;"> <thead> <tr> <th></th> <th>Ch</th> <th>£</th> <th>sh</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>St Asaph (from Ferry Rd)</td> <td>30</td> <td>12</td> <td>.</td> <td>0. 0</td> </tr> <tr> <td>Lichfield St (from Barbadoes)</td> <td>19</td> <td>7</td> <td>.</td> <td>12. 0</td> </tr> <tr> <td>Hereford St</td> <td>19</td> <td>7</td> <td>.</td> <td>12. 0</td> </tr> <tr> <td>Worcester St</td> <td>19</td> <td>7</td> <td>.</td> <td>12. 0</td> </tr> <tr> <td>Gloucester St</td> <td>19</td> <td>7</td> <td>.</td> <td>12. 0</td> </tr> <tr> <td></td> <td></td> <td><u>£ 42.</u></td> <td><u>8.</u></td> <td><u>0</u></td> </tr> </tbody> </table> <p>In the above I have left out Chester & Kilmore St. In the former it would be necessary to form the street to secure drainage. In the latter this is a work that does not require...</p>		Ch	£	sh	d	St Asaph (from Ferry Rd)	30	12	.	0. 0	Lichfield St (from Barbadoes)	19	7	.	12. 0	Hereford St	19	7	.	12. 0	Worcester St	19	7	.	12. 0	Gloucester St	19	7	.	12. 0			<u>£ 42.</u>	<u>8.</u>	<u>0</u>
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Gloucester St	19	7	.	12. 0																																
		<u>£ 42.</u>	<u>8.</u>	<u>0</u>																																
Page 193	immediate attention.																																			
East Town Belt	With regard to the East Town Belt drainage from the nature of the ground, and the section, any attempt at the ordinary surface drainage which has been carried out in the other parts of the City would without a considerable expense in filling up the low ground between St Asaph St nearly to Lichfield St be useless. What I would recommend would be to clear out the existing ditch drain on the East side of the Belt which runs into the drain through a natural gully into the north side of the Ferry Road a culvert at the place of junction taking the water to the south side of the Road. This latter (the old Gully will bear deepening slightly from Hereford St: North. The clearing out of the existing side cutting will take the water to the R. Avon.																																			
<i>The drainage of the streets going into the Belt can be taken across to the ditch drain.</i>																																				
South Town Belt	I am not at present prepared to give a decided opinion <i>S Belts</i> the drainage of the streets running to the south drain with the exception of Durham St (16 chains £6-8) will be secured on the completion of the works at present in hand.																																			
Nuisances	I have not this week received any report from the Inspector of Nuisances. He has I believe sent...																																			
Page 194	one straight to the Council. He has however reported that.																																			

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Date Range: April 1862-June 1863

Transcription:

Montreal St: South Filling Gully	<p>Mr Mathews. High Street though served with two notices on Dec 29th /1862 & March 3rd /1863 has not yet altered his xx.</p> <p>Also the Wesleyan School notice given Octbr 22nd 1862. I wish the authority of the Council to provide, & have fixed the proper pans.</p> <p>The Contractors wish to draw £40- to which from the look @ one they are entitled.</p> <p>I have written in accordance with a resolution of the Council at their last meeting to the Incumbent & Church Wardens Church property.</p> <p>Mr Edds Section 744 Mr Barnard 831 & 833 Mr Rowley 741 & 743 (Section 742 I can up to the present find no owner) Requiring them to fill up the Gully running through their sections.</p> <p>The same Gully continued. Runs through His Honor Judge Gressons – across a paddock in the occupation of Mr Mein between...</p>
Page 195	<p>Gloucester St., and Armagh St through Sections 558 (Mr Barnard & Mr [Ormanby]. The Police Stables 556 Mr Calvert 555 Mr Parker 553 & 551 And on Mr Park's Section 549 there exists a large hole made into a pond for the purpose of keeping the remr of the section dry. Is it the wish of the Council that similar notices be sent in these cases.</p>
Page 196 Sanitary Measures	<p>At the present time I am given to understand that there is more sickness and fear in the City than has ever at one time prevailed. This must to a great extent be caused by existing nuisances – as well as by those probably of some years standing. Foremost amongst existing ones, is the habit of keeping pigs. It is next to impossible to get people to keep the stys clean and there is always a most obnoxious smell rising from them. The City is now growing so rapidly in all quarters that this evil may justly be stopped by the Council not permitting pigs to be <u>kept at all</u> within the city.</p>
Kerbing Ferry Rd East side Working Gang	<p>I have received the accompanying letter (marked A) from Mr Jones relative to kerbing (50 ft) on the East side of Ferry Road.</p>

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Transcription:

Pumps Mr Hadley	<p>The side drain on the North side of St Asaph Street West (where the inhabitants xx the Council) is completed.</p> <p>The carpenter has been engaged fixing the troughs & Flues round the pumps.</p> <p>I have seen Mr Hadley. He states that he has sunk 36 feet in Durham St & Papanui Road and that though he has found water it is totally unfit for use and he thinks from his experience else where in the same locality...</p>
Page 197 <i>Working of present pump</i> Water supply <i>*To bring the water by pipes from the source of the R Avon to a Reservoir to be formed in the swamp between Dallaways & the Lincoln Rd</i>	<p>that it will be useless to persevere in the same place. He is willing to sink another boring in any other place the Council may direct or if preferred to receive payment for the two he has already done leaving the third out of the question.</p> <p>Should the Council determine on having the other done I think more success may be met with in the open space at the junction of Peterbro Street and the Papanui Road. I may here add with reference to the water supply to the City after numerous attempts to meet the Provincial [Engineer] on Thursday last I sent to Sumner and we appointed to meet there on Saturday evening I accordingly went. He thoroughly approves of my plan* and has given directions that a drawing be prepared at the Public Works Office showing all the levels of the surrounding country and we are to meet in ChCh during the week to have a further consultation about it.</p> <p>The men will commence Gloucester St this week</p> <p>The other gang of men are at work in Chester Street just East of Madras St cutting down a bank and filling in the low ground which would otherwise form a pond in the wet weather.</p>
Gravel	<p>I have been over the Govt Domain...</p>
Page 198	<p>sinking for gravel near where the present fence is. The stripping to the gravel is about 5 feet. But I found plenty just West of the Govt Garden all cropping out on the surface I saw Mr Wylde who told me I could go anywhere by moving the fence so as to continue the pits we were at present working in. In consequence of the Easter holiday I cannot see him again till after Wednesday. But I am sure he will not object to our working out the part I mention.</p> <p>In Hagley Park the Govt Pit now open the gravel is very bad with a very low face to work at – the gravel would require screening before it could be used. With the exception of this spot I did not see any indications of a good gravel pit. To get there it would be necessary to form a</p>

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The present pit	road over a low swampy place which would add to the expense of the Bridge. Which would I think hardly be repaid by the outlay in working the gravel. With the permission of the Council I might endeavour to make arrangements with either Dr Barker, Mr Gould (Cathedral Sqr) or Mr Marshall Montreal St. each of whom have good gravel on their sections. And would probably sell at so much...
Page 199 Gravel	say 7d or 8d per yard cube on condition of the pits being filled in. I have the honor to be Gentlemen Your most obt; Servant Wm Fredk Moore City Surveyor To the Gentlemen of the Committee of the ChCh City Council &c &c &c Christchurch
Page 200	[Page missing – text begins:] entitled to keep the water at that level, I will be better able to explain this matter on my interview with the Council.
Footpath Worcester Street	I have had a footpath made on the North side of Worcester St as far as the West end of Mr Fields property. I did not go any further in consequence of the sand which would have filled it up almost as soon as done. As I reported some time ago the best way would have been to have made the street up to Montreal Street and 4 or 5 chains on the west of the same. The sand blowing on to Montreal St is ruining the road.
Drain Windmill Road	I would suggest to the Council the advisability of continuing the present ditch drain on the West side of Windmill Road straight into the River instead of running through the Scotch Church property and then all round the Hospital ground back into the River. A xx xx could be got, the continued expenses of keeping the creek clear of water Cress avoided the bridge over the Lincoln Road done away with & a 2ft Culvert substituted across Oxford Terrace. The cost of the whole would be £36.
Item 59 Page 201	City Surveyor's Office 13 th April 1863 Gentlemen, I beg to report as follows,
Tenders	Tenders will be before the Council this Evening for the formation and gravelling Cashel Street from the West side of Barbadoes St, to West side of East Town Belt.

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Date Range: April 1862-June 1863

Transcription:

Advertised for	Formation and metalling the Road round N.E. Corner of Cathedral Sqr. With portion of Worcester Street. Formation only of Madras Street from South Drain to present metalled Road. Montreal St from North side Armagh St to Papanui Road. Oxford Terrace from Manchester Street to Helmore Street. Tenders will be before the Council for the above on Monday next – April 20 th . Also for the Est Town Belt from Hereford St to the Ferry Road on Monday April 27 th
Gravel	During the past week I have made a very careful examination of both Hagley Park, and the Govt domain. The only places in the former where I could find gravel are marked red upon the accompanying tracing. A the pit now opened by the Govt is nearly worked out. The gravel is very bad and could not be used without screening the probable expense...
Page 202 Gravel Condn	of doing which would be 2sh to 3sh pr yd. There are about 1000 yds to be [gathered] here before screening at B . There is a Bank of Gravel running, as shown; the stones are very small but on the whole the gravel is good. About 3000 yards might be quarried here.
<i>Ditto from private parties in the City from what enquiries I have made I find that 1sh pr yd cubed would be required from people who have gravel on their properties & the hole filled up</i>	At C there is a pit close over the present existing B ledge over the R. Avon that might come in for the North Belt, & Northern parts of the streets of the City. In the Govt Domain a good pit of excellent Gravel can be opened at the place marked D where about 5000 yds could easily be obtained. I do not know how far quarrying Gravel in Hagley park might interfere with Mr Wrights lease of the same.
Town Belts	With regard to the proposed method of laying out the Town Belts consider I should not be right did I not point out to the Council the serious inconvenience that will arise form the proposed plan. I do not see how carriage ways are to be made into the properties on both sides of the Belt. No doubt can exist but that in future years the Belts will become the positions of Gentleman's residences – each of whom will desire a road to his stable, & house. I am decidedly in [The following 2 pages are missing]
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Clearing R Avon	The estimated cost of clearing the R. Avon in a similar way to the Govt work by the [Armagh] Bridge would be £8-10 pr chain.
Mr Gordon's office chimney	In consequence of the chimney of Mr Gordons office smoking to such an extent as not to allow of a fire being lighted I have been authorised by the Chairman to get a funnel & cowl to fix on the top – at cost of £1-15 (Completed).
Paving the street drain crossings	I wish strongly to recommend to the Council the desirability of paving for a width of (6) six feet the drain's where they cross the streets - in the thoroughfares where there is most traffic. I have received the accompanying offer for the delivery of the necessary stone laying which should be done at about 2s 6d in yard superficial.
Pigs & Nuisances	I have got a list of persons keeping pigs East of Columbo Street and South of Avon. In what way am I to proceed and who are to get the licenses. I would recommend that the Council decide upon some decided plan of getting rid of house slops, vegetable matter etc. At present even in some...
Page 204	of the most Public thoroughfares it is all thrown on the footways or street. This so long as the surface Drainage is the only drainage every drain becomes in itself a nuisance. The time is not far distant where a system of sewerage will have to be adopted and eventually years hence probable the river bricked over so, as to form a sort of "Fleet ditch sewer". But as a long time must elapse before these things are done we are till then exposed to the evils above mentioned & with little prospect of redress for unless luckily enough to catch people in the act of doing these things one is powerless.
Pumps	The troughs and fencing round the pumps (2) are completed. Mr Hadley had not up to this [moment] put new [leathers] but does this afternoon. He has not yet commenced the boring at the junction of the Papanui Rd & Peterbro. Street.
Working Gangs	One gang of men are at work in Chester St. the other in Gloucester St.
Metalling Cathedral Sqr	Mr [Angus] one of the sureties of Duncan the contractor will not sign the necessary papers he says he was never consulted in the matter & that Duncan
Page 205	put his name down without his permission.
Kerbing	The stone kerbing applied for by Mr Gould has been laid Mr Gould having paid in the money. In the Ferry Road on the West side the kerbing applied for by Messrs Jones and [Watts] is being put down.

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Transcription:

	<p>In consequence of Mr Dobson having been obliged to go to Akaroa the map with the necessary levels of the surrounding Country has not been getatable & Mr Barnes the draughtsman has therefore been unable to make the map that is required.</p> <p>I have the honor to be Gentlemen, Your most obt Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p>
Item 60 Page 206	<p>City Surveyors Office April 20th 1863</p>
Tenders	<p>Gentlemen I beg to report as follows,</p> <p>Tenders will be before the Council this Evening for the formation and metalling of Montreal St: from North side of Armagh St: round East side Cranmer square to the Papanui Road. dis of 26 Ch.</p> <p>Also for the formation, & metalling Oxford Terrace from East side Manchester St: to Kilmore Street a distance of 20 Ch: with 2 chains of Madras St.</p>
Advertised for	<p>Formation of East Town Belt from Hereford Street to the Ferry Road.</p>
Footpaths & Kerbing	<p>The stone Kerbing, & Footpath in Columbo St (Mr Goulds) is completed. Also in The Ferry Road East side Messrs Jones & Watts.</p>
Salisbury Street	<p>The formation, and metalling of Salisbury Street from Columbo St to Manchester St is completed, and the formation only, as far, as Barbadoes St. Balance due £100 14 days having elapsed since completion.</p>
Columbo St: North	<p>The metalling of this street etc. is completed.</p>

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Page 207	The whole amt of contract £85.10 [75] xx due – viz £61.12.6 leaving a balance at the end of 14 days of £23.17.6
Gravel from Private persons	I have agreed with John Marshall to take the gravel on his section in Montreal Street at 1sh pr yd cube.
<i>2000 yards</i>	I wrote to the Provincial Secretary relative to obtaining Gravel from the North West corner of the Govt Domain. The permission has hence given upon the same condition as before.
Drain Windmill Road	Also to the Prov Secretary relative to the Diversion of this drainage, and upon the same subject to the Trustees of the Presbyterian Church. But have not yet received any answer.
Gravelling the West side of Cathedral Sqr	Messrs Woodman & Wright the next lowest tenders for this work and willing to do it at their original tender viz £112.2.6.
Working Gang	The Gang has been employed in forming Gloucester Street, & levelling Latimer Square the other in Chester Street, Raking in the cart ruts, Clearing side drains.
Page 208	Cutting water cress in the Avon (this work is proceeding satisfactorily). The Earth deposited in the East Town Belt has been levelled, footpaths have been made up & gravelled in the places sanctioned by the Council.
Cathedral Sqr	The road round the South East corner, is in course of completion by “Duncan” one of the sureties.
Fencing Yard <i>Troughs to be altered</i>	Since the fencing round the pumps has been completed the Carpenter has being engaged putting up the fencing round the yard which is nearly completed.
Pump.	Mr Hadley has not yet commenced the third boring. Not having had on hand sufficient piping. He will do it tomorrow morning.
Stone Kerbing	I have received the accompanying letter from Mr Jones Ferry Road. He wishes to have a further distance of 60 feet kerbed, and gravelled.
Cemetery	

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Date Range: April 1862-June 1863

Transcription:

	<p>I have also received a letter from Mr Harsten relative to having filled in a swamp near the Church...</p>
Page 209	<p>of England Cemetry.</p> <p>I have the honor to be Gentlemen, Your obedient Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p>
Item 61 Page 210	<p>City Surveyors Office April 27th 1863</p> <p>Gentlemen I beg to report as follows,</p>
Tenders	<p>Tenders will be before the Council for the formation of the East Town Belt from the Northside of Ferry Rd. to the north side of Hereford Street a distance of 35 chains.</p>
Letters	<p>I have received a letter from the Prov. Secretary containing permission to divert the Windmill Road Drain also an order for the Govt Gardener to deliver the trees to be planted in Cathedral Square.</p> <p>A letter from Mr Fraser relative to the diversion of Drainage in Antigua Street. The fencing alluded to would cost £1.10 there would be sufficient earth to fill up the remainder of the creek from the new drain proposed to be cut.</p>
Madras Bridge	<p>I have not been able to get any wire to put along the sides of this Bridge. As soon as I can the wk. shall be done. (2 wires both sides).</p>
Bridges – Salisbury St	<p>I have taken the necessary steps to have the Bridge in this street made safe by the addition of hand rails, & paving the approaches.</p>

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	The expense of increasing the width of the Bridges over the South Drain to the full width of the roadway will be about
Page 211	£25. including a light handrail, and angle 'fencings'.
East end of South Belt <i>Cost abt £4 without taking across the Belt</i>	With reference to draining the East end of the South Town Belt I would recommend that a new drain be cut from the corner of the present drain on the Wesleyan Church Property to the Railway Terminus. This drain would except, in the extraordinary rains, take off the water.
Gravel for Street Crossing Drains	I have commenced having gravel screened for placing in the side drains where they cross the streets at the same time preserving the small stones that go through the screen (as free as possible from Sand) to put on the footpaths, as it may be required.
Mill Bridge	From the numerous complaints made to me relative to the Bridge over Avon Hereford St. I wish to ask the Council if something cannot be done to prevent drays &c with bullocks & horses stopping on the Bridge, also if the owner cannot be compelled to complete the Fencing on the South side. In the Mill ordinance it states that the Bridge is to be "safe & commodious". In its present...
Page 212	state it certainly is not safe from the above reasons and I should take the word "commodious" to mean that the Bridge was to be sufficiently wide to permit the passage of carriages, carts & foot passengers at all times not as at present where at times there are 3 or more carts &c waiting the pleasure of the men who may happen to be loading, or unloading on the Bridge.
Pumps	The boring at the corner Papanui Rd, & Peterbro St. is completed, & the pump fixed that carpenter is getting on with the Fencing. The supply of water is good.
House in Barbadoes St <i>Month expired April 26th 1863</i>	The time (one month) had expired since notice was given to Mr Nelson the owner of the House in Barbadoes Street that stands upon the Public Way. The house has not yet been removed.
Cathedral Sqr South East <i>Time expired April 22th 1863</i>	The sureties of the Contractor for this work have not completed their work. Their time expired last week. I have reason to believe that they do not intend to finish it. I conclude I shall be doing right by setting our own men...
Page 213	on to complete it.
Main thoroughfares	In consequence of arrangements having been concluded which gives the Council the charge of the main thoroughfares through the City I have commenced the necessary steps for putting

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Transcription:

<p>Working gang Mr Wilkins Section 212 loads cost £12.0.6 Charge at 1.sh pr yd cube} 15.18.0 Bal. £3.17.6</p>	<p>them in a proper state of repair & request the permission of the Council to advertise for tenders for metalling with 20 yds cube pr chain. The Ferry Rd from East Belt to Tuam Street a dis of 43 chains.</p> <p>One gang have been getting on with Gloucester St and filling the Gullies in Cathedral Square.</p> <p>The other men have been variously employed in raking, cutting cress, clearing drains, stripping gravel & levelling yd.</p> <p>From having taken over the main thoroughfares from the Govt it necessitates more labor being employed. I therefore request permission of the Council to increase the number of men employed to 26...</p>																				
<p>Page 214 Hereford St</p>	<p>and to have another Ganger for their immediate supervision.</p> <p>The contractor for Hereford St wishes to draw £40, being entitled to it I pass his bill in.</p> <p>I have the honor to be Gentlemen, Your most obed Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p>																				
<p>Page 215 5/p chain p month</p>	<p style="text-align: center;">Estimate's connected with the leading thoroughfares through the City of Christchurch A</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: right;">£</th> <th style="width: 20%; text-align: right;">sh</th> <th style="width: 10%; text-align: right;">d</th> </tr> </thead> <tbody> <tr> <td>Amount required for immediate repairs</td> <td style="text-align: center;">—</td> <td></td> <td></td> </tr> <tr> <td>Papanui Rd from North Town Belt to Columbo St 57ch</td> <td style="text-align: right;">14.</td> <td style="text-align: right;">5.0</td> <td></td> </tr> <tr> <td>Oxford Terrace from Antigua St to Papanui Road 58 ch</td> <td style="text-align: right;">14.</td> <td style="text-align: right;">10.0</td> <td></td> </tr> <tr> <td>Columbo St from Papanui Rd to Sumner Rd 18 ch</td> <td style="text-align: right;">4.</td> <td style="text-align: right;">10.0</td> <td></td> </tr> </tbody> </table>		£	sh	d	Amount required for immediate repairs	—			Papanui Rd from North Town Belt to Columbo St 57ch	14.	5.0		Oxford Terrace from Antigua St to Papanui Road 58 ch	14.	10.0		Columbo St from Papanui Rd to Sumner Rd 18 ch	4.	10.0	
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Date Range: April 1862-June 1863

Transcription:

	Sumner Rd from Columbo St to Tuam St 25Ch & from Tuam St to East Belt 43Ch Metalling [20sh] prch	8.10.0 <u>236.10.0</u> <u>£278. 5.0</u>
Page 216	<i>[N.B. this page appears to have been misfiled and is end of report on pg 234]</i> ...is completed. I have the honor to be Gentlemen, Your most obe Serv Wm Fredk Moore City Surveyor To the Gentlemen of the City Council &c &c &c Christchurch	
Item 62 Page 217	City Surveyors Office May 18 th 1863 Gentlemen, I beg to report as follows	
Tenders	I have advertised for Tenders for placing 10 yds cube pr Ch on Montreal St: South. From St Asaph St: to South Belt. The tenders will be before the Council May 25 th 1863. I have received the accompanying letters from Messrs de Bourbel & Co relative to filling in of sections 741 & 743 in Cathedral Square and Hereford Street.	
Columbo St: North	With regard to the claim made by Brown the Contractor for this work for a further payment for 200 links I find one reference to the Contract ledger as well as his tender that the claim is just the error arising from a mistake of not including the North Belt in his contract.	
Oxford Trrace East	Hayter the contractor for this work wishes to draw £50 to which from the amount of work done he is entitled.	
Page 218 Drain North Belt	I have made a private contract with Martin & Askew the late contractors of Montreal St: to proceed with this work at the rate of 15sh pr chain.	

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Date Range: April 1862-June 1863

Transcription:

Drainage Wesleyan Church Reserve <i>Drain between O'Neills and now on Cathedrals Ground</i> Ferry Road.	<p>I have seen Mr O'Niel the owner of the land through which the new proposed drain would pass. He is willing to permit it at once, if the drain be a covered one, but being of opinion that Drain tiles would not sufficiently answer the purpose, we have agreed to a meeting on the land tomorrow to see if we can come to some arrangement.</p> <p>With reference to that portion of the Ferry Road from the East Belt to Tuam Street I am on opinion that it would be inadvisable to raise the crown of the road any more by putting on a quantity of grave But would recommend that the present surface of the road be well "picked" over so as to fill up the existing ruts and that a few loads of gravel be placed in imperfect</p>																														
Page 219	<p><i>[N.B. this page appears to have been misfiled and follows on from page 215]</i></p> <p style="text-align: center;">B</p> <p style="text-align: center;">Annual Account required for Keeping the foregoing in a state of proper repair for 12 months from the present date.</p> <table><thead><tr><th>Chains</th><th>£</th><th>s</th><th>d</th><th></th></tr></thead><tbody><tr><td>57 Papanui R d</td><td>156.</td><td>15.</td><td>0</td><td></td></tr><tr><td>58 Oxford Terrace</td><td>159.</td><td>10.</td><td>0</td><td></td></tr><tr><td>18 Columbo St</td><td>49.</td><td>10.</td><td>0</td><td></td></tr><tr><td>68 Sumner Rd</td><td><u>187.</u></td><td><u>0.</u></td><td><u>0</u></td><td></td></tr><tr><td></td><td><u>£ 552.</u></td><td><u>15.</u></td><td><u>0</u></td><td></td></tr></tbody></table> <p style="text-align: right;">£ s d</p> <p>From A we have required for immediate repairs 278. 5.0</p> <p>From B account required for keeping in repair for one year from present date <u>552.15.0</u></p> <p style="text-align: right;"><u>£831. 0.0</u></p>	Chains	£	s	d		57 Papanui R d	156.	15.	0		58 Oxford Terrace	159.	10.	0		18 Columbo St	49.	10.	0		68 Sumner Rd	<u>187.</u>	<u>0.</u>	<u>0</u>			<u>£ 552.</u>	<u>15.</u>	<u>0</u>	
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Page 220	<p>Amnt appld xx To include Hospital bridge <u>£400</u> <u>Hospt Bdge 120</u></p>																														
Item 63 Page 221 Tenders	<p>City Surveyors Office May 4th 1863</p> <p>Gentlemen, I beg to report as follows</p>																														

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Date Range: April 1862-June 1863

Transcription:

Cathedral Sqr South East	I have advertised for Tenders for placing 10yd cube of gravel upon the formed Road in Gloucester Street
The Gully thru Church of England Reserves	With reference to completing this work I have made a private contract with "Hole", & "[MacKenzie]" to complete the formation and gravelling for £40. I have inspected and taken the levels of the bottom of the Gully running through the Church Reserves. I find that by commencing filling, by the fence on the lowest side of Durham Street for a depth of two (2) feet the fillings to run out at a distance of 2.82 chains to where I have placed a peg. The water will then run into the R. Avon through a culvert beside Oxford Terrace placed there for that purpose by the Asst Provincial Engineer. From the above I am on opinion that under the circumstances the Council cannot under the 68 th clause of the City Ordinance enforce the filling up of the whole of the Gully. But only that part which would contain standing water, viz for a distance of..
Page 222	2.82 chains, and the filling to be as mentioned above.
Fencing Oxford Terrace Dis /2 Chains	The cost of Fencing Oxford Terrace from the Mill Bridge to the Bridge in Gloucester St: the fence to be similar to that put up by the Provincial Govt including painting would be seventy pounds £70-
Cesspools	Accompanying this report is a list of persons in the District who have not yet got their xx altered to the plan approved by the Council.
Working gang	I have increased the working gang to (26) hands. They are principally getting on with the main thoroughfares. I have not been able to obtain a carpenter on moderate wages. I have the honor to be Gentlemen, Your most obed Servant Wm Fredk Moore City Surveyor To the Gentlemen of the City Council &c &c &c Christchurch
Item 64 Page 223	City Surveyors Office May 11 th 1863 Gentlemen

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Date Range: April 1862-June 1863

Transcription:

Tenders	I beg to report as follows. Tenders will be before the Council this Evening for metalling Salisbury Street from Manchester St. to Barbadoes St:
Inspector of Nuisances	Mr Coker has commenced his duties from Thursday last.
Working Gang	One gang is at work in the Windmill Road cutting the drains as sanctioned by the Council. The other men have been going on with clearing the side drains of the main thoroughfares. The contractors wish to draw fifty pounds £50 to which from the amount of work done they are entitled.
Cathedral Sqr North East Corner.	
Footpath Ferry Road	The Footpath paid for by Mr Jones in the Ferry Road...
Page 224	parts the cost of which will be about one pound pr chain.
Madras St: South.	The formation of Madras St: from 300 links from the Ferry Road to the South Drain having been completed the specified time. I pass in a Bill for the amt £50.0.0
Mill Bridge Hereford St:	In accordance with a resolution passed by the Council I have conferred with Mr Lane. He tells me that he has no intention of making any other means of access to his Mill that the existing Bridge is the same as that passed at the time of its construction and that no more obstructions occur now than there ever did.
Working gangs.	Two gangs have been at work on the main thoroughfares the one on the Ferry Road the other Oxford Terrace (which is completed the side drains cleared out & new footpaths formed)...
Page 225	and the Papanui Road which is nearly completed. The other gang on the diversion of the Windmill Rd Drain. This work is proceeding rapidly and satisfactorily. And in the opinion of the medical men of the Hospital will be of great service to the same. We have still been unfortunate in not obtaining another carpenter. The one at present employed is now engaged with a culvert for Oxford Terrace West until which is completed we are unable to go on with other works sanctioned by the Council.

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Transcription:

	<p>Cutting the cress in the Avon has been proceeded with & is done as far up as Papanui Bridge – a distance of 10000 links the cost pr chain being about 5sh which considering that the River has not been cleared in that portion before by the Council is very moderate.</p> <p>The fence at the Cemetry...</p>
Page 226 Windmill Rd Diversion Nuisances <i>in a disgusting state</i>	<p>has been repaired. While on this subject of the men, might I suggest to the Council the advisability of making up the road between the terrace, and Tuam St with the surplus earth. In the drain the men are now working out gravel which I am having put aside which would give a slight coat of metal.</p> <p>I have received a weekly report from the inspector which I forward with this. On this subject I wish to bring under the notice of the Council the following circumstances: on Saturday last a Horse the property of Mr Bruce was laying dead in his paddock. Being in such a state, as to be impossible to be moved the same day I discovered a cow laying dead in the Public Roadway. In accordance with 16th Section of the Police ordnance I caused information to the fact to be given to them. However they refused to have any thing to do with it. I was therefore obliged to send a cart off...</p>
Page 227	<p>the works with six of one of the gangs to have the carcass removed to the Reserves without the City. This having to take men, horses etc from the works to do what evidently is the duty of the Police. It is to be hoped that the time is not far distant where the Govt will subsidise the corporation when this body will be under their control.</p> <p>I have the honor to be Gentlemen, Your most obt Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p>
Page 228	<p>P.S. Since concluding my report I have seen Mr Raikes relative to the footways, it appears that he will be unable to produce the xx before the commencement of the next year from the misunderstanding before mentioned he is obliged again to refer to England.</p> <p>Mr Fred Moore C.S.</p>

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Date Range: April 1862-June 1863

Transcription:

Page 229	<p>Report. I cannot but express to the council the sorrow that I experience at its previous delay which has mainly been caused by the difficulty of obtaining the necessary, & accurate information.</p> <p>I have the honor to be Gentlemen, Your most obt Servant Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p>
Page 230	<p>The Council will if further info as to the cost of this plan, & as to the precise xx referred to</p> <p>[FM]</p>
Page 231	<p>18th May 1863 City surveyors Office ChCh</p> <p>Gentlemen, I beg to lay before the Council the following report relative to the Water Supply for the City of Christchurch.</p> <p>It is a well established fact that nothing is more injurious to health, and the well being of a Town than the want of a good and sufficient supply of water both for domestic purposes and in a quantity, and facility of obtaining in cases of fire, and also the necessary considerations of flushing the side drains of streets.</p> <p>With the regard to the City of ChCh the latter objects might be temporarily obtained from the River Avon, but it is evident to all that even supposing the water of the River Avon was fit for domestic purposes at the present time which it is not. A few more years it will be injurious to health.</p> <p>There remains therefore a necessity for obtaining the required supply from one of two sources. Bringing the water from a distance by means of pipes and forming a Reservoir at some convenient spot without the City that will contain the requisite supply. The size for a population of 10,000. (The present population of ChCh is 4600) requiring a supply of 120000</p>

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	<p>gallons pr day. This quantity being chiefly drawn in the forenoon in six (6) hours that is $\frac{1}{4}$ of a day the...x`x</p>
Page 232	<p>the reservoir or tank must contain the other $\frac{3}{4}$ which have accumulated in the forenoon and previous night = 90000 gallons or $90000 / 6 = 15000$ Cubic Feet or about 55 feet square with a depth of five (5) feet.</p> <p>In England the different sources of expense have been analysed and it has been satisfactorily shown that the most efficient method of supplying the water at a constant high pressure, besides affording the greatest security against fire and avoiding the expense of tanks for the houses supplied is at the same time cheapest for the procuration of the water by its enabling the supply to be delivered through pipes of rather smaller sizes and by its dispensing with a good deal of unnecessary superintendence.</p> <p>The constant high pressure is found expedient even in cases in which it is necessary to pump up the water to an elevated service reservoir in order to obtain the requisite head.</p> <p>From the enquiries I have been making I find that there is a spring on the Papanui Road from which a sufficient and constant supply of excellent...</p>
Page 233	<p>water could be obtained with a heading of 15 feet which could be brought down the Papanui Road in pipes. The spring is situate at a distance of $2 \frac{1}{4}$ miles from the Market Place in the City. I am not prepared to say what the flow would be. This could be obtained by placing a permanent weir, & gauge. At some convenient spot which circumstances will determine. A service reservoir could be placed from which the mains would run through the City. A service reservoir (contain a two days supply) its object is to allow any earthy matter to subside and also to economise the size of the mains. If as I am led to believe the supply to be good this would be better than a storage Reservoir, or one capable of containing a supply for some weeks. For the present supply of the City it would be sufficient to lay the...</p>
Page 234	<p>Main. First to the Market place from there to Hereford Street and down The Ferry Road to Tuam St. – Durham St. to Govt Buildings.</p> <p>Gloucester Street – from Oxford Terrace half way to Manchester St. – Hereford Street. Oxford Terrace to Manchester Street. Cashel St: Oxford Terrace to Manchester Street. &c Lichfield St. Oxford Terrace to Ferry Rd.</p> <p>Should the Council at all entertain the above idea in which I have given but a sketch at their next meeting the necessary Drawn & estimate will be before them.</p>

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	<p>The other method to which I alluded was to obtain the supplies by means of Artesian Borings. I conclude that the Govt Geologist who has now estimated is to lay before them the probable depth of stratified rock &c. If the boring would be 300 ft. the cost would be £800- In concluding this <i>[report ends – page misfiled – see page 216]</i>.</p>
Item 66 Page 235	<p>City Surveyors Office May 25th 1863</p>
Tenders	<p>Gentlemen, I beg to report as follows.</p> <p>Tenders will be before the Council this evening for metalling Montreal St: South from the North side of St Asaph Street to the North side of South Town Belt. A distance 1900 links.</p>
Drainage South East Corner of City	<p>I have seen Mr ONeil relative to a drain being cut upon his property to take the water from the South Belt to the South Drain. He is willing to permit the Drain to be carried along the West Boundary fence of the section selling to the Council a width of 4 feet (which would be sufficient) for the whole length 400 links for £60- Since the above however the Revd Mr Buller came to me & he informs me that Mr ONeil agreed with him that if Mr Buller would give half he Mr ONeil would give the other half. The drain would then be along the Eastern Boundary Fence of the section where it would answer all requirements.</p>
Carpenter	<p>From the quantity of work for carpenters now sanctioned and in arrear I beg the permission of the Council...</p>
Page 236	<p>to engage for a short period another hand at 10sh pr day being unable to get one for less.</p>
<i>Undesirables</i>	<p>I also wish again to bring under the notice of the Council a great advantage which would be derived by having a Cart & Horse upon the works belonging to the Council for which Constant employment would always be found.</p>
Oxford Terrace	<p>While the Contractor is engaged with this work might I suggest the Council the advisability of forming and metalling that portion of Manchester Street from Armagh St. to the Terrace a distance of about 200 links the cost of which should not exceed £12 and would complete the net work of streets in that portion of the City.</p>
Cambridge Terrace (Est cost £4.10sh pr chain dist 1300 links)	<p>I would also suggest the formation of Cambridge Terrace from Gloucester St: to Hereford St: By doing which the whole of the swampy ground just in front of the new Mechanics Institute would be filled in and the nuisance abated. While on this subject I may mention that the...</p>

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Transcription:

Page 237	water is now fast accumulating on the South side of Hereford Street where in the opinion of the Provincial Engineer the drain should be cut by the owner of the mill.
Hereford St: West:	From the sandy nature of the soil in this portion of Hereford Street I have had it rolled from which the street has derived much benefit, and as soon as the road round Cathedral square in completed I purpose having it done also.
Triangle.	I have received a communication from a resident in the triangle relative to the alteration of the position of the closets on the properties fronting upon High Street with a view to improve the health of the locality and the suppression of nuisances – Mr W Wilson is willing to give the triangular piece of land marked A on the accompanying plan to the residents where it is proposed to erect six (6) closets - four (4) for the use of one six & two (2) for the use of the other and also to form...
Page 238	a place suitable for the reception of ashes &c.
Stone Kerbing	I have received an application from Mr Bethel Ware to have the footpath in front of his establishment formed & kerbed. The distance is 60 feet.
Water Supply.	During the past week from various objections which I heard to the supply of water being continuous from the springs near Dr Lilly's Papanui Road I levelled the Lincoln Rd to the River Heathcote. The section accompanies this report. It shows that the present level of the River is 11.52 feet above the highest part of the City & 23.38ft above the lowest part of the City. There is no doubt but that the supply of water must come from one of the following places Springs Papanui Rd. R. Heathcote Lincoln Rd. Sources of R. Avon. Or the Styx River. As rapidly, as I am able I will lead myself to each of these places, to ascertain which will be the most advantageous.
Page 239 Working Gang	The side drains of the main thoroughfares are completed. The men are now employed on their usual work within the City. The Culvert across Oxford Terrace West is completed and the water from the Windmill Road Drain is diverted & filling up. The creek is being rapidly proceeded with as well as reforming Antigua Street from the Terrace to Tuam Street. I have received a report from the inspector of nuisances which accompanies this. I have the honor to be Gentlemen, Your most obt Servant

CHRISTCHURCH CITY COUNCIL ARCHIVES

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Date Range: April 1862-June 1863

Transcription:

	<p>Wm Fredk Moore City Surveyor</p> <p>To the Gentlemen of the City Council &c &c &c Christchurch</p> <p>PS. Metalling the West side of Cathedral Sqr is completed [in] the specified time. I pass in a Bill for the Acct due to contractors.</p>						
Item 67 Page 240	<p>City Surveyors Office ChCh. June 1st 1863.</p>						
Tenders	<p>Gentlemen, I beg to report as follows.</p> <p>Tenders for metaling Montreal St: South from the north side of St Asaph St: to the north side of South Belt will be before the Council this Evening. Distance 1900 links.</p>						
Drain Wesleyan Reserves &c Flag Stone pavements	<p>On Thursday last I met by appointment on Mr I ONeil's property South Belt - that gentleman and the Revd I Butler. The result of our conference was the accompanying agreement. Should the Council approve of the same. I wish permission to commence the drain at once before the wet weather sets in.</p>						
Stone Kerbing	<p>In addition to the application made to the Council by Mr Gould I have received another. It appears that the stone can be obtained from Lyttleton the cost there being 1s 3d prfoot sqr. When delivered in ChCh it would cost 1s6d</p> <p>I have received an application from the "Times" Office in Gloucester Street to have their footpath formed & Kerb'd. Distance 57 feet 6". Also the continuation...</p>						
Page 241	<p>from Mr Tribe for a distance of 78 feet 8" being a total length of 136 feet 2".</p>						
Filling Gully Scotch School. Corner Lichfield St & Ferry Road	<p>I have also received an application from Revd. I Fraser to fill up a gully (which constitutes a nuisance) behind the Scotch School, & Mr Ride's property. The Revd I Fraser being willing to pay for the same being done at pr. yd [square].</p>						
Contracts	<p>The contractors for the following works wish to draw on their contracts, as [under]:</p> <table><tr><td>Cashel Street</td><td>£ 60.0.0</td></tr><tr><td>Cathedral Sqr NorthEast & Worcester St:</td><td>£ 60.0.0</td></tr><tr><td>Cathedral Sqr South East</td><td>£ 30.0.0</td></tr></table>	Cashel Street	£ 60.0.0	Cathedral Sqr NorthEast & Worcester St:	£ 60.0.0	Cathedral Sqr South East	£ 30.0.0
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Date Range: April 1862-June 1863

Transcription:

	Supply of Stone Kerbing £100.0.0 From the amount of work done in the above cases the Contracts are entitled to draw.
Oxford Terrace Fence	Mr Ballard has paid for the repair of the Fence in Oxford Terrace. Cut through on the occasion of Mr Wakefields horse being in the Avon River.
Stone Kerbing	I have in addition to the previously mentioned Kerbing applied for; received an application from Mr Gee to have 200 links of xx [pages missing – end of volume].
Page 242	R. JONES, Binder, CHRISTCHURCH, NEW ZEALAND <i>Inside back cover</i>