RURAL CITY LIVING

Response to information request from Brett Giddens

30 October 2023

Dear Brett

Thank you for your email on 26 September asking for the following:

1. Copies of all resource consents and approvals (including applications, plans, decisions and any variations, and correspondence on file relating to the approvals – i.e. the complete property file) relating to the establishment and operation of the East Gore Water Treatment Plant. The site is located between Talbot and Wentworth Streets, legally described as Sec 10 and 11 Block XXIV Town of East Gore (shown in the image below).

Please find attached files and emails relevant to your request.

If you are unsatisfied with the response, you are entitled to lodge a complaint with the Office of the Ombudsmen. You can find more information on its website http://www.ombudsman.parliament.nz

Kind regards

Sonia Gerken
GM Communications & Customer Support

From:	Keith Hovell
To:	Hashem Ramezan-zadeh
Cc:	Ramesh Sharma; Ian Davidson-Watts; Matt Bayliss; Fran Davies
Subject:	RE: Gore Water Treatment Plant - Planning Assessment
Date:	Monday, 24 September 2018 9:42:54 AM
Attachments:	image001.jpg image002.png image003.png image004.png image005.png

Morning Hashem.

The note you have sent through does not give a description of the works proposed to be undertaken on the Wentworth Street site and I need to have an understanding of this in order to provide you with definitive advice. I will be in the office tomorrow and will catch up with you to discuss.

The current operation is legally established. It therefore has existing use rights, and depending on the scale of works proposed and their effects, there may not be any need to obtain any RMA consents from the Council at this stage.

Of the two options described by Beca (resource consent and designation) if an approval is required then designation is to be preferred. Indeed, if future works such as increased water storage tanks are a possibility then designation at this time is recommended. It removes any doubt that the Council is acting at or beyond the standard for consenting under the RMA.

I agree with the assessment by Beca as to the advantage of designation in facilitating future development options. The report is incorrect however as to the process. The RMA has been amended to enable designations to be processed without notification provided that the written approval has been obtained from all persons who could reasonably claim to be affected. The process for designation therefore is exactly the same as for a resource consent. This is another factor in favour of that approach.

The report also overstates the need for public notification. However, if there is doubt with Council projects erring on the side of caution is recommended.

As noted above, I will discuss this with you further tomorrow.

Keith

From: Hashem Ramezan-zadeh
Sent: Monday, 24 September 2018 8:02 AM
To: Keith Hovell <KHovell@goredc.govt.nz>
Cc: Ramesh Sharma <RSharma@goredc.govt.nz>; Ian Davidson-Watts <IDavidson-Watts@goredc.govt.nz>; Matt Bayliss <MBayliss@goredc.govt.nz>
Subject: FW: Gore Water Treatment Plant - Planning Assessment

Hi Keith,

Please review the attached planning assessment for Gore Water Treatment Plant and advise on the resource consent under the Operative Gore District Plan.

Thanks and regards,

Hashem Ramezan-zadeh | Project Manager- Infrastructure
T: 03 2090330 | **DDI**: 03 7480102 | **M**: 021 1957018 | **E**: HRamezan-zadeh@goredc.govt.nz | **W**: www.goredc.govt.nz
Gore District Council, 29 Bowler Avenue, PO Box 8, Gore, 9740.

From: Alex Mills [mailto:Alex.Mills@beca.com]
Sent: Friday, 21 September 2018 4:36 PM
To: Hashem Ramezan-zadeh <HRamezan-zadeh@goredc.govt.nz>
Cc: Simon Drew <Simon.Drew@beca.com>
Subject: Gore Water Treatment Plant - Planning Assessment

Hi Hashem,

As per our discussions early last week, please find attached the planning assessment that has been completed for the WTP project. If you have any questions, please let me know.

Thanks,

Alex Mills
Senior Civil Engineer
Beca
Phone: +64 3 366 3521 Fax: +64 3 366 3188
DDI: +64 3 901 0343 Mob: +64 27 801 2094
alex.mills@beca.com
www.beca.com
igniteyourthinking.beca.com

From:	Matt Bayliss
To:	Jo Skuse
Cc:	Jason Domigan; Bridget Sim
Subject:	East Gore WTP Upgrade - Planning Assessment
Date:	Tuesday, 26 September 2023 11:32:46 AM
Attachments:	0.png 1.jpg 2.png RE Gore Water Treatment Plant - Planning Assessment.msg FW Gore Water Treatment Plant - Planning Assessment.msg

Hi Jo,

As discussed please see attached planning assessment and correspondence regarding the East Gore WTP that was completed back in 2018 at the start of the project.

I haven't been able to locate any further correspondence after this.

Let me know if you want to discuss.

Cheers

Matt Bayliss | 3 Waters Asset Manager
T: 03 209 0330 | **DDI:** 03 209 0382 | **M:** 027 405 8411
E: mbayliss@goredc.govt.nz | **W:** www.goredc.govt.nz
Gore District Council, 29 Bowler Avenue, PO Box 8, Gore, 9740

Gore Water Treatment Plant - Planning Assessment

1 Background

Water treatment in Gore is currently carried out at two Water Treatment Plants (WTPs), Wentworth St/East Gore WTP and Hilbre Ave/West Gore WTP.

Treated water quality currently does not meet the Drinking Water Standards for New Zealand 2005 (DWSNZ) and under the Health Act, Gore District Council (GDC) is required to upgrade their WTPs to achieve compliance.

In order to rectify the current situation to achieve compliance with the DWSNZ, Beca Ltd (Beca) have been engaged to assess options to upgrade the existing systems. It has been identified that the Hilbre Ave/West Gore WTP will be decommissioned but the reservoir will remain, and that the Wentworth St WTP will be upgraded. The upgrade will result in the water treatment plant processing 6000 m^3/d with the design allowing the plant to expand to 8000 m^3/d in the future.

2 Purpose

This planning assessment identifies any resource consent requirements under the Southland Regional Plan for the discharge of overflows to the wastewater and stormwater reticulated systems (the relevant matters which might trigger a regional resource consent), and under the Operative Gore District Plan for extension of the existing Wentworth St WTP.

The design information used to undertake this planning assessment is:

- Preliminary Design Report and appended plans prepared by Beca dated 20 August 2018.

3 Summary

3.1 RMA Approvals from Gore District Council

A resource consent under the Operative Gore District Plan for a discretionary activity would be required to extend the WTP. Whether this consent would be notified or not (limited or public), is reliant on an assessment of the actual and potential effects being undertaken along with a determination by the Regulatory side of Gore District Council. However, we note that a WTP is a discretionary activity on this site, and therefore it is not a contemplated activity given the residential zoning, and therefore there is a good chance that an application would be notified unless it could be agreed that any adverse effects are less than minor or minor, and any party who is deemed to be adversely affected has given its written approval.

Given that an extension to the existing WTP is proposed, and that there could be a further reservoir on the site in future, the Council should consider further whether or not to designate the site for WTP purposes, encompassing in that designation application the current and future development. While a designation application is notified (limited or public), it would remove the need in future to obtain further resource consents for future development, which could also be notified. Instead an Outline Plan process (not subject to public input) would be undertaken.

A weighting exercise between the risk of notification (resource consent vs designation) and short and long term costs. Further to the provision of this planning assessment, and once further details are known, we would be happy to provide an analysis that sets out the pros and cons including risks of resource consent versus designation process to assist in Councils decision making.

3.2 RMA Approvals from Southland Regional Council

Gore District Council holds a global resource consent (ref Auth-206303) for the discharge of stormwater to the reticulated system. Southland Regional Council has confirmed that this is valid for the Gore Township including the WTP operation and the proposed stormwater discharge works. Therefore no further resource consent is required for stormwater discharge.

The disposal of wastewater to the reticulated system doesn't require resource consent as long as the discharges to either land or water directly from this system or the WWTP are consented. Additionally, a resource consent would not be required as long as there is capacity in the existing system for this additional wastewater discharge and that any resource consents that Gore District Council currently holds do not have conditions around capacity constraints.

4 Site Context

The site is located on Wentworth St, East Gore and is located within the Residential A zone of the Gore District Plan. The site is not subject to any policy overlays. Figure 1 below illustrates the site location and zoning.

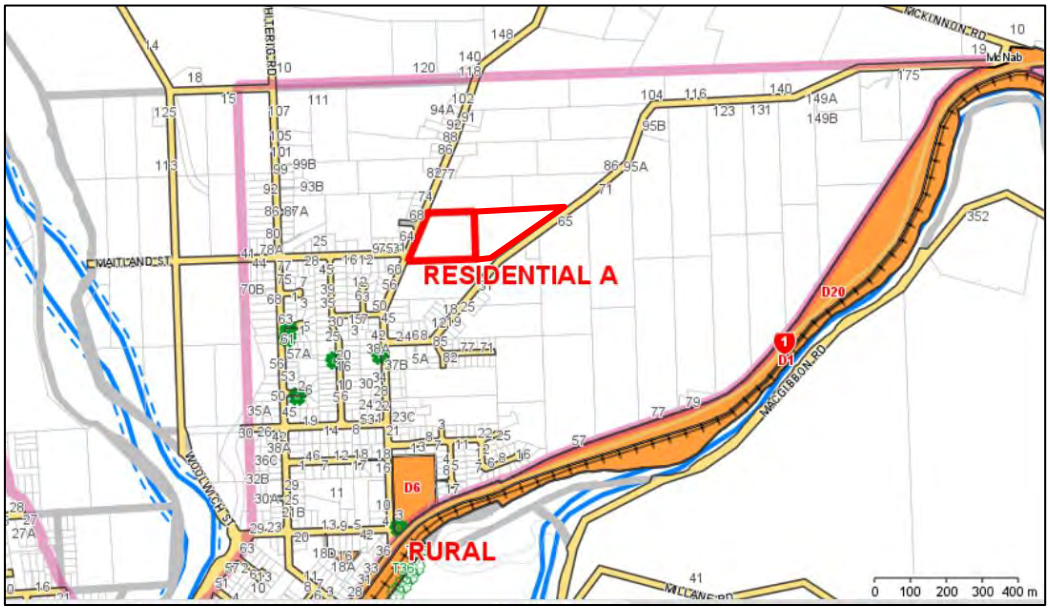


Figure 1: Zone Map and Location

Figure 2 below illustrates the Gore District Council utilities that are within and adjacent to the property.

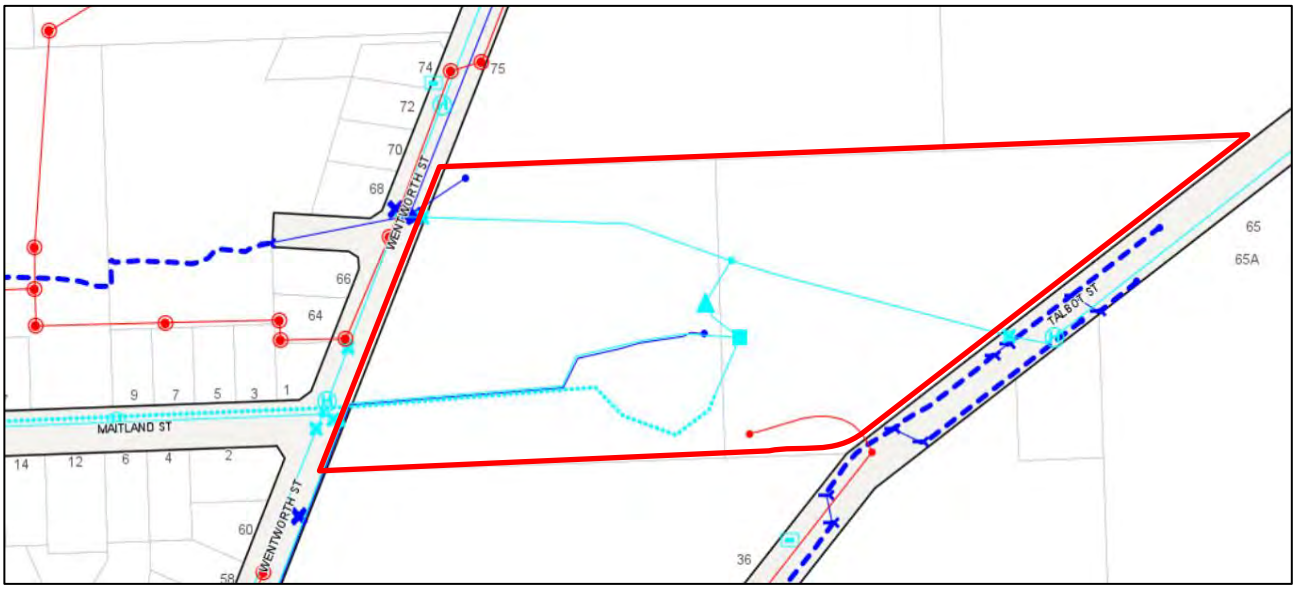


Figure 2: Utilities Plan

5 Resource Consent Requirements

5.1 Southland Regional Council

The water treatment process results in wastewater disposal and overflows from and to the following systems:

- Flocculation tank – to the reticulated sewer;
- Wastewater tank from filter backwash activity – to reticulated sewer (High lever overflow to stormwater);
- Reservoir – treated, chlorinated water to stormwater;
- Coagulant dosing tank – to stormwater; and
- Caustic doing tank – to stormwater

It has been confirmed by Southland Regional Council[1] that a global resource consent (ref Auth-206303) held by Gore District Council for the discharge of stormwater to the reticulated system is valid for the Gore Township including the WTP operation. Therefore the above stormwater matters are covered under this global resource consent.

The disposal of wastewater to the reticulated system doesn't require resource consent as long as the discharges to either land or water directly from this system or the WWTP are consented.

[1] In a telephone conversation between Beca and the consents planner at Southland Regional Council on Thursday 20 September 2018 date.

Additionally, a resource consent would not be required as long as there is capacity in the existing system for this additional wastewater discharge and that any resource consents that Gore District Council currently holds do not have conditions around capacity constraints.

5.2 Gore District Council

5.2.1 Resource Consent Requirements

The site is located within the Residential A zone of the Gore District Plan, and pursuant to Rule 4.2.1 (2), WTP's are not provided for as a Permitted activity in this zone. Rule 4.2.4 states that any activity not provided for as a Permitted, Controlled or Restricted Discretionary, Non-Complying or a Prohibited activity are Discretionary activities. As a WTP is not listed as a Non-Complying or Prohibited activity, it would be a Discretionary activity.

We have not searched Gore District Council records to confirm whether the existing WTP was established by way of a resource consent (post 1991) or a planning approval under the Town and Country Planning Act (pre 1991). If a planning approval does not exist, the WTP may be lawfully established through existing use rights. However, any extension or change to the existing WTP would necessitate a new Discretionary activity resource consent as any existing planning approval would not likely be valid for the changes, and any existing use rights would likely be lost.

This means that a resource consent for a Discretionary activity would be required for the extension of the WTP.

As part of that resource consent application the following built form standards would apply and where possible need to be complied with in order to not trigger additional reasons for consent:

Rule	Provision
▪ Rule 4.5 Noise	Noise limits in rural and residential zones On any day: 7.00 a.m. to 10.00 p.m. 55 dBA Leq 10.00 p.m. to 7.00 a.m. 40 dBA Leq 10.00 p.m. to 7.00 a.m. 75dBA Lmax Measured: Residential zones at any point in any other site.
▪ Rule 4.8 Height	Residential Zones – 8m maximum height
▪ Rule 4.9 Site Coverage	Site Coverage for Residential Zone – 40%
▪ Rule 6.1 – Storage of Hazardous Substances	It is a permitted activity to store or use hazardous substances provided that the quantities in storage or use do not exceed the amounts specified in Table 6.2. Oxidising Substances – Industrial – 2,000 kg Poisonous Substances – Industrial – 1,000kg

The notification status (non-notified, limited or public) of a Discretionary resource consent application cannot be determined until final design has been confirmed, an assessment of the actual and potential effects on the environment undertaken, and a determination made by Council as Regulatory Authority. . However, given a WTP is not a residential activity, and therefore not anticipated on the site, it is possible that the application would be limited or publicly notified unless it could be agreed that any adverse effects are less than minor or minor, and any party who is deemed to be adversely affected has given its written approval.

5.2.2 Designation

A designation is an alternative RMA approval to a resource consent. As a Local Authority the Council has the ability to designate as a Requiring Authority the WTP under the District Plan. We note that currently the site is not designated by the Council for WTP purposes.

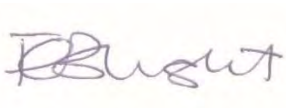
A designation is a form of 'spot zoning' over a site in a district plan. The 'spot zoning' authorises the Requiring Authority's work and activity on the site without the need for land use consent under the District Plan. A designation does not negate the need to obtain any resource consents from a regional authority, in this case Southland Regional Council. A designation has a similar effect to a plan change establishing a permitted activity as it:

- identifies the land affected in the district plan
- enables a Requiring Authority to undertake the works within the designated area without the need for a land use consent
- sets the parameters under which the activity can occur.

Different to a resource consent, a designation allows for future development to be included removing the need for future resource consents. A designation is a notified process (limited or public). However, a resource consent for the works as stated above could also likely be a notified process. The Council should consider given potential future development on the site whether designating the WTP would be more advantageous over a resource consent that would only authorise the current works. A weighting exercise between the risk of notification and short and long term costs should be undertaken. Further to the provision of this advice, and once further details were known, we would be happy to provide an analysis that sets out the pros and cons including risks or each option to assist in Councils decision making.

6 Future Reservoir

Should a future reservoir be established at the Wentworth St WTP a Discretionary resource consent will be required under the Gore District Plan pursuant to the rules outlined above. Alternatively, if the site is designated then a resource consent application would not be required but rather an outline plan.



Alisha Robinson

Senior Planner

Fiona Blight

Technical Director – Planning

NOTE.—No work is to be commenced until plans and specifications have been lodged as provided for in the Borough By-laws and until a Building Permit and other necessary Permits have been issued for the work, and ALL Fees duly paid.

(See Scale of Fees on Back.)

Application No. 4531
Received 18/6/80
Permit No. J86280
Issued 2/7/80.

Fees Payable: 98
Building Permit $~~158·00~~
Water Fee $:
Footpath Deposit $:
Channel Crossing $:
Building Research Levy $ 50 ~~118~~ :
TOTAL $~~276·00~~ 148

BOROUGH OF GORE

Building Application Form

To the BOROUGH ENGINEER.

I hereby apply for permission to erect, ~~repair, alter, add to, remove~~ a building at No. Wentworth St. Street, for G.B.C. (owner) of (address) according to locality plan and detailed plans, elevations, cross sections, and specifications of building deposited herewith in DUPLICATE

PARTICULARS OF LAND:

Lot No. ~~15~~
D.P. No.
Section No. 10
Block No. XXIV
Town or Survey District Gore
Frontage metres
Area
Valuation Roll Number 2976/30700

PARTICULARS OF BUILDINGS:

Foundations Concrete
Walls
Roof Iron
Area of Ground Floor sq. met. Bricks thds.
Area of Outbuildings sq. met. Concrete Ready Mix cub. metres
Channel Crossing Required Yes/No.

VALUE OF WORK

Building $ ~~117925·00~~ 50000 Building Only.
Plumbing & Drainage $:
Total $ ~~117925·00~~ 50000

This is: ~~Estimated~~ or Contract Price.

Proposed purpose for which every part of buildings is to be used or occupied (describing separately each part intended for use or occupation for a separate purpose)
NOTE: Signatures are required.

Water Treatment Plant Building.

This office is to be notified when foundations are excavated so they may be inspected before any concrete is poured.

Yours faithfully,

Owner G.C.C.
Builder Jones Corporation ANZ
Postal Address
Postal Address No 4 RD Gore Phone 6509.
Date 16th June 80

SPECIAL CONDITIONS:

For Office Use Only

Plans and Specifications checked and in order.
John MacDonald Building Inspector.
23.6.80 Date.
Health Inspector.
Date.

CHECKED FOR:—
By-Law Provisions:
Town Planning Ordinances:
Issue of Permit Approved: Date: 2/7/80

Fees Payable on the Issue of any Building Permit according to the Estimated Value of the Work

Estimated Value of Work	Fees
	$ c
Not exceeding $20	0.50
Over $20 and not exceeding $200	1.00
" $200 " " $400	2.00
" $400 " " $600	3.00
" $600 " " $800	4.00
" $800 " " $1,000	5.00
" $1,000 " " $1,200	6.00
" $1,200 " " $1,400	7.00
" $1,400 " " $1,600	8.00
" $1,600 " " $1,800	9.00
" $1,800 " " $2,000	10.00
" $2,000 " " $2,500	12.00
" $2,500 " " $3,000	14.00
" $3,000 " " $3,500	16.00
" $3,500 " " $4,000	18.00
" $4,000 " " $5,000	21.00
" $5,000 " " $6,000	24.00
" $6,000 " " $7,000	27.00
" $7,000 " " $8,000	30.00
" $8,000 " " $9,000	33.00
" $9,000 " " $10.000	36.00
" $10,000 " " $12,000	40.00
" $12,000 " " $14,000	44.00
" $14,000 " " $16,000	48.00
" $16,000 " " $18,000	52.00
" $18,000 " " $20,000	56.00
" $20,000 " " $25,000	64.00
" $25,000 " " $30,000	72.00
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" $50,000 " " $60,000	108.00
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" $90,000 " " $100,000	148.00
" $100,000 " " $120,000	158.00
" $120,000 " " $140,000	168.00
" $140,000 " " $160,000	178.00
" $160.000 " " $180,000	188.00
" $180,000 " " $200.000	198.00
" $200,000 " " $240,000	210 00
" $240,000 " " $280,000	220.00

For every $40,000 or part thereof in excess of $280,000 an additional fee of $10.00.

WATER FEES:	Sealed Roads	Gravel Roads
¾"	$100.00	$ 75.00
1"	$110.00	$ 85.00

Larger sizes - estimates of cost will be provided by the Borough Engineer.

Concrete 5c per cu metre. Bricks 20c per 1,000.

Channel Crossings (4 metres wide): New Drop Kerb Crossing in existing kerbs $20, New Drop Kerb Crossing $5, New Drop Kerb Crossing and path $50, Break out old path and kerb crossing and reconstruct $100, Form new slot crossing $40, form new slot crossing and reconstruct path $100.

Footpath and Channel Deposit - Minor Buildings $20, Residential $50, Commercial $100

Building Research Levy - 50c per $1,000 of total cost when greater than $3,000. (Note from 1/4/78 levy will be $1 per $1,000 when greater than $3,000)

Fees Payable for Special Duties

Nature of Duty	Fees
For inspection required in the case of proposed structural alteration before drawings and other documents are submitted for approval	$2.00
For inspecting old timber before reusing the same in a new building	$2.00
For any inspection that may be deemed necessary in connection with any building or work in respect of which no fee has otherwise been paid	$5.00
For searching drawings and other documents after completion of work	$0.50
For the inspection of a building for removal (and if such building so requiring to be inspected is situated outside of the Borough of Gore at the time of such inspection then in addition to the inspection fee a mileage fee of 15c per mile (both ways) calculated from the Gore Borough Council Offices to the site of such Inspection	$5.00

In any dispute the Engineer shall determine the value of the work in accordance with Clause 2:13.

Ind.

Date 2/7/80

Sec
~~Lot~~ 10 ~~D.P.~~ Blk XXIV Street Wentworth.

~~Lot~~ or GBC.

Builder Jones + Cooper Plumber NJ Fitzgerald.

Work Water Treatment Plant. Total Value $117925—

Area Floors Walls Roof

Permit No. Bldg. J056280 Pl. Dr. 261.

Footpath Deposit

Remarks

Inspections Date	Instructions to Builder
1.10.80	Footings in.
24.11.80.	Steel in lintels. Blk walls complete
8.1.81.	Roofed. Timber framing started.
27.3.81.	Blkd a closed in. Lining in hand.
1.5.81.	Carps. cleaning up. Painters 75%
2-6-81	Completed

Date of Final Inspection

Maximum Number of Occupants

Occupation Certificate No.

Inspector.

NECKLEN-MCDONALD

Date 3/7/80.

sec 10 Lot ~~D.P.~~ Blk XXIV Street Wentworth St.

(Water Treatment G.B.C.)

Owner GBC.

Builder Jones + Cooper Plumber MJ Fitzgerald.

Work New Labour Value $750-00

Permit No. Bldg Pl. Dr. 261

Remarks

Water tested Ok. Jm

10.4.81.

Date of Final Inspection

Inspector

NECKLEN-MCDONALD

PLICATE for Local
rity to return

Registration number 4675

Telephone 729-929
Ext. 531 or 972

Local Authority To Return To

Building Projects Authority
P.O. Box 12150
Wellington North

Application for Registration of Building Project

Name and address of owner:
GORE BOROUGH COUNCIL
ASHTON ST
GORE

1. Location of Building
WENTWORTH ST
GORE

(If form is to be returned to agent of applicant, complete address panel below)

2. Estimated start date: 1/6/1980

3. Estimated completion date: 31/12/1980

4. Name of Local Authority to issue permit:
GORE BOROUGH COUNCIL

5. Type of building (see list on reverse):
WATER TREATMENT STATION

If house, flat or garage, provide plans and state area:
170 square metres.

6. Estimated cost: $40,000

I certify that the particulars given herein are correct:

Signature: J D Fitzsimons

Name and address of agent of owner:
Gore Borough Council
Ashton Street
GORE.

FOR LOCAL AUTHORITY'S USE WHEN ISSUING PERMIT:

Permit number

Start date of project:

Completion date of project:

Estimated cost: $

Signature of officer issuing permit:

Designation:

Expiry date: ...../9/1980

Dear Sirs

The Economic Stabilisation (Building Registration and Construction) Regulations 1974

Registration number 4675

Pursuant to these regulations the issue of a building permit has been considered and is authorised immediately/~~deferred~~ to allow construction to commence in June (month) 1980 (year). If the building permit is not uplifted by the expiry date or construction is abandoned, this certificate shall lapse. Please quote registration number when making inquiries.

Yours faithfully,

~~P.G.~~ Walker
Building Projects Authority

PW. 753A (Rev. 11/74)

General instructions for completing application form

Please note that this registration form is in accordance with the procedures as laid down under the Economic Stabilisation (Building Registration and Construction) Regulations 1974 and subsequent amendments.

The regulations provide that, where the issue of a building permit has been deferred, this decision is subject to review.

Action for applicant

After completing the form BOTH copies must be forwarded to the Building Projects Authority for approval and processing. The Authority shall remove the Original copy and return the DUPLICATE copy to the applicant with his decision noted. This shall be presented to the local authority issuing the building permit, as evidence of the Building Projects Authority's consent. Please note that space is allowed for the name and address of your agent if this application is to be returned to him.

Action for local authority

The applicant for a building permit shall present this from to you at the time of applying for a permit; the Building Projects Authority has already retained the ORIGINAL.

Place the latest reported start and finish dates together with the latest estimated cost in the places provided; arrange for some authorising officer to sign below the figures. They must be identical to those on the permit form.

The permit is not to be issued if the allowable period (three months after permitted date) has elapsed. If this has happened the applicant must re-apply to the Building Projects Authority.

Return the tearoff section to the applicant as his record and return the top section to the Building Projects Authority at the end of the month of issue.

List of building types

House — single unit
House — with one or more attached flats
Flats and multiunit dwellings
Domestic garages and carports
Hostels, homes, barracks, nurses homes
Hotels, motels, guest houses and motor camps
Hospital and nursing homes
Education:
- Kindergartens and play centres
- Primary schools
- Secondary schools
- Technical Institutes
- Teachers colleges
- Universities
- Others

Social, cultural, recreational, and religious
- Art galleries
- Cultural centres
- Libraries
- Public Halls
- Churches
- Grandstands, stadiums
- Zoos

Shops, restuarants, taverns
Office, and administration
Warehouses, stores, wharf sheds
Factories, power houses, etc.
- Garages
- Workshops
- Vehicle shelters
- Fire stations

Farm working buildings
Other buildings
Other construction
Alterations
Additions

BOROUGH OF GORE

Application for Permit for Sanitary Plumbing or Drainage Work

Application No. 4531
Received 18/6/80
Permit No. 261
Issued 3/7/80.

Fees Payable:

Plumbing	$	24 : -
Drainage	$	:
Street Reinstat.	$	:
Sewer Con.	$	:
Storm Water Con.	$	:
Water Con.	$	:
TOTAL		24 -

TO THE BOROUGH ENGINEER,

I, the undersigned M.J. Fitzgerald. (Name in full) of Gore.

hereby apply for permission for the work described herein, and set out in the plans attached hereto, to be carried out in the premises situated in Talbot St. (Address in full.)

DESCRIPTION OF PROPERTY:

Lot No. X
D.P. No. X Block No. X
Section No. X Town or Survey District X Gore

Name and address of Person for whom work is to be carried out:
(Name) Gore Borough Council
(Address) Gore.

Name and address of Registered Plumber or other person entitled to do the work:
(Name) M.J. Fitzgerald.
(Address) 14 Culling Terrace Mataura.

DESCRIPTION OF WORK:

State if New Work or Repairs New
Sanitary Fittings to be installed WC, Shower, Basin, Sink,
Approximate Length of Drain 40 metres.
State if Street Opening No.
Is a Water Connection required, Yes/~~No~~. Yes
Value of Proposed Work (Labour Only)
Estimated Value of (a) Plumbing $ 500.
(b) Drainage $ 150:00.
TOTAL $ 750:00.

Signature M.J. Fitzgerald. (Registered Plumber/Drainlayer)

Dated this 16th day of June 1980

FOR OFFICE USE ONLY:

Health Inspector's Report

1. Application Approved for Issue of Permit.
2. Application Deferred.

Date 23.6.80 J.McMacRae for Health Inspector.

Date 2/7/80 [signature] Borough Engineer.

FEES PAYABLE ON THE ISSUE OF DRAINAGE PERMIT ACCORDING

TO THE ESTIMATED VALUE OF THE WORK

PLUMBING AND DRAINAGE	Value of Labour content of Work $1 - $200	$8.00	
	Value of Labour content of Work $210 - $400	$12.00	
	PLUS $6.00 for each $200 or part thereof of labour content in excess of $400.		
DRAINAGE CONNECTTIONS:	Separate stormwater and foul sewer connections	$75.00	each
	Combined Connection	$75.00	
STREET REINSTATEMENT:	Bitumen	$35.00	
	Gravel	$10.00	
WATER FEES:	¾"	$65.00	(Street Reinstatement not include
	1"	$75.00	
	Larger services - estimates of cost will be provided by the Borough Engineer		

FEES PAYABLE FOR SPECIAL DUTIES

Nature of Duty	Fees

GORE BOROUGH COUNCIL

Application No.: .....

Date: .....

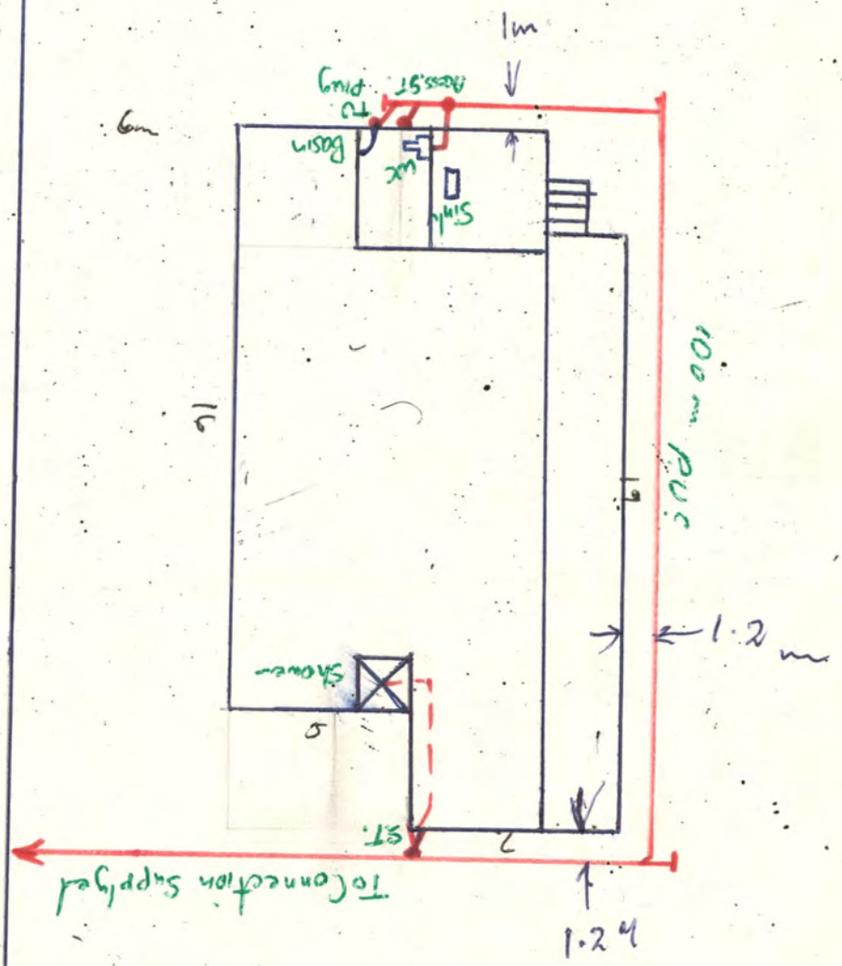
House Connection Plan-Drainage

All drawings must be correct to Scale, in INK, and show Compass direction, land boundaries and all necessary information.

Scale: ¼in. to 1ft. To be submitted in DUPLICATE.

REFERENCES—

AB Access Bend	FAI Fresh Air Inlet	MV Main Vent
AP Access Pipe	GA Grease Arrester	S Saddle
AY Access Y Junction	GT Gulley Trap	TV Terminal Vent
BV Back Vent	IC Inspection Chamber	WC Water Closet
DP Down-Pipe	New Stormwater Drains: DOTTED BLACK	Old Drains: FULL BLACK
New Sewer Drains: RED		



Name of Owner. Gore Borough Council Street... Talbot St.....

Lot or Section No..... Block No. .....

Signature of Drainer. M. J. Taylor

DRAINAGE CONNECTION SUMMARY

NAME OF DRAINLAYER _____

ADDRESS OF BUILDING _____

Main Sewer Connected Into

Depth of main sewer to top of barrel _____ metres

Internal dia of main _____ metres

Distance from street boundary to main _____ metres

Type of pipe used in main _____

SEWER CONNECTION

Internal dia of connection _____ metres

Type of pipe used _____

Distance from connection line to nearest side boundary at street boundary _____ metres

Depth of connection to top of barrel at street boundary _____ metres

Distance from side of building to drain line _____ metres

Drain tested _____ date _____

Health Inspector

3

Close 2 p.m.
Tuesday 29 April 80

SPECIFICATION

CONTRACT 6708

SPECIFICATION

for

WATER TREATMENT BUILDING AND RELATED WORK

for

GORE BOROUGH COUNCIL

T. H. JENKINS & ASSOCIATES
chartered consulting engineers
gala street - invercargill

SPECIFICATION

CONTRACT 6708

SPECIFICATION

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WATER TREATMENT STATION BUILDINGS

GORE BOROUGH COUNCIL

MEMORANDUM TO TENDERERS No.1

3 April 1980

M1.1 Refer Clause 3.14 - Building Water Supply

Piping is to be to N.Z.S.S. 7602 Type 5, Class D, not as specified.

M1.2 Refer Clause 4.37

Allow to supply and install one 13mm bore 20 metre fire hose and reel which will be located to the Engineer's direction on site, on a wall below the cold water supply piping.

M1.3 Refer Clause 4.36

Allow to supply and install a pressure control valve for the hot water cylinder as the cold water mains pressure range will be from 700 to 1050 kPa.

M1.4 Refer Drawing 17

Reference to 38 diameter galvanised pipe is to be deleted for building water supply. Materials in Clause M1.1 to be used.

T. H. Jenkins & Associates
P.O. Box 93
INVERCARGILL

Dear Sirs

This letter acknowledges receipt of tender documents for Contract Number 6708 for Water Treatment Building and Related Work which are being loaned to us for the purpose of tendering.

We understand and accept that these plans are expensive to produce, are required for genuine tenderers and the making up of contract documents and other purposes immediately tenders have closed. We appreciate that if we do not tender, or do not return them further copies must be printed.

Therefore should they not be returned to you on or before the closing date for tenders for this work accompanied by a bona fide tender, you are authorised to charge us the sum of $70 and we undertake to pay you this amount whether or not the plans are subsequently returned.

Yours faithfully

Authorised agent of .....

Please sign and return this form. Note: Tenders will not be accepted unless this form is returned to the above address.

FOR OFFICE USE ONLY

Name .....

Firm .....

Postal address .....

The Mayor and Councillors
Gore Borough Council
P.O. Box 8
GORE

Dear Sir

TENDER FOR CONTRACT P.6708 Water Treatment Building

Having examined the Drawings, General and Special Conditions of Contract, Specification, the Schedules where applicable, and the site, for the construction of the above-named works, we offer to supply, construct, complete and maintain the whole of the said Works in conformity with the said Drawings, Conditions of Contract, Specification, and Schedules, for the sum of: .....($.....
or such other sum as may be ascertained in accordance with the said Conditions.

We undertake to complete and deliver the whole of the Works comprised in the Contract within the time stated below.

If our Tender is accepted we will, if required, provide two good and sufficient sureties, or obtain the guarantee of a Bank or Insurance Company (to be approved in either case by you), to be jointly and severally bound with us in a sum equal to ten percent of the above-named sum for the due performance of the Contract under the terms of a Bond in the form annexed to the General Conditions of Contract.

Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose with our Tender our deposit cheque for:
.....($.....)

The names of our Sureties are: .....
The date for completion of the work is: .....
Our service percentage on the P.C. Sum is: .....
Our Insurance Company is: .....

Our trade summary schedule of prices is attached.

Our list of subcontractors is attached.

Yours faithfully

Signature: .....

Address for Service:.....

.....

Date: .....

The Mayor and Councillors
Gore Borough Council
P.O. Box 8
GORE

Dear Sir

TENDER FOR CONTRACT P.6708 Water Treatment Building

Having examined the Drawings, General and Special Conditions of Contract, Specification, the Schedules where applicable, and the site, for the construction of the above-named works, we offer to supply, construct, complete and maintain the whole of the said Works in conformity with the said Drawings, Conditions of Contract, Specification, and Schedules, for the sum of: .....($.....)
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Our service percentage on the P.C. Sum is: .....
Our Insurance Company is: .....

Our trade summary schedule of prices is attached.

Our list of subcontractors is attached.

Yours faithfully

Signature: .....

Address for Service:.....

.....

Date: .....

List of Contents Page No.

List of Contents Page No.

List of Contents Page No.

List of Contents Page No.

SPECIAL CONDITIONS OF CONTRACT

for

WATER TREATMENT BUILDING AND RELATED WORK

for

GORE BOROUGH COUNCIL

1. GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract shall be N.Z.S. 623:1964, "Conditions of Contract for Building and Civil Engineering Work". This document, together with the Special Conditions of Contract given hereunder form part of the Contract Documents.

2. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract modify or extend the General Conditions of Contract. Chapter references refer to N.Z.S. 623:1964.

Part 1 - Definitions

1.1 "Principal" means Gore Borough Council

"Engineer" means the authorised representative of T. H. Jenkins & Associates, Consulting Engineers, Norden Chambers, 55-59 Gala Street, Invercargill

"Week" means a period of seven consecutive days.

Part 2 - Tenders

New Clause - Tender Documents

(a) Tender documents are issued on the condition that they shall be returned to the Engineer in good order on or before the tender closing date accompanied by a bona-fide tender. If any documents are not so returned, the person to whom they were issued shall forthwith pay a printing cost of $70 to the Engineer.

(b) A full set of tender documents will be available for viewing at the office of the Engineer and subcontractors may purchase portions of the documents on payment of printing charges as set out in Special Conditions Clause 5.2.

Part 2 - Tenders

2.1.1 Submission of Tenders

Tenders marked "TENDER FOR WATER TREATMENT BUILDING" shall reach the Office of Town Clerk Gore Borough Council P.O. Box 8 Gore not later than 2 p.m. Tuesday 29 April 1980.

2.1.5 Lump Sum Contract

The Tender shall be for a Lump Sum for the supply, construction, demolition, alteration, erection and completion of the whole of the work described, specified or implied on the accompanying Plans, in the Specification or in the General and Special Conditions of Contract.

2.1.6. Schedule of Prices

Each tenderer shall submit with his tender a complete trade summary schedule of prices showing how the lump sum has been arrived at.

2.3.1. Deposit with Tender

Each Tender shall be accompanied by cash, or by a cheque, or by a Post Office Money Order in New Zealand currency, for $500. A cheque or Post Office Money Order in New Zealand currency shall be drawn in favour of Gore Borough Council.

Part 3 - Bonds and Sureties

3.1 Sureties

The Tenderer shall submit the name of a recognised Bank or Insurance Company who will join with him in a Bond for the due performance of the Contract. The Bond shall be executed for ten percent of the Contract Price. The Tenderer shall state in his Tender the name of the surety.

Part 5 - Contract Documents

5.2 Supply of Drawings and Specifications

The Principal shall supply to the Contractor free of charge:

(a) One set of contract documents.

(b) Two sets of drawings and specifications for building permit application purposes.

(c) Three sets of drawings and specifications for construction purposes.

Additional copies may be obtained from the Engineer on payment of the following printing charges.

Set of drawings	..	$50
Specification ..	..	$20
Individual prints	..	$2.50
Specification pages	..	$0.25

Part 6 - Engineer's Representatives

6.1.4. The Engineer's Representative or any Supervising Officer will in no case act on behalf of, or perform duties for the Contractor, nor interfere with the management of the works by the latter. Any advice which the Engineer's Representative or other Supervising Officers may give the Contractor or his Foreman shall in no way be construed as binding on the Principal in any way, nor as releasing the Contractor from fulfilling the terms of his Contract.

Part 7 - Assignment and Sub-Letting

7.2 Sub-letting

Delete this clause and substitute the following.

7.2 The Contractor shall not sub-let the whole of the works.

7.2.1 Except where otherwise provided by the Contract, the Contractor shall not sub-let any part of the works without the written consent of the Engineer and such consent, if given, shall not relieve the Contractor from any liability or obligation under the Contract, nor from active superintendence of the work during progress, and the Contractor shall be responsible for the acts, defaults and neglects of any Sub-Contractor, his agents, servants, or workmen, as fully as if they were the acts, defaults, or neglects of the Contractor, his agents, servants or workmen.

7.2.2. The consent of the Engineer to any sub-letting may be given upon such terms and conditions as the Engineer deems fit.

7.2.3. The Contractor shall not sub-let any part or parts of the Works to a Sub-Contractor who does not agree to be bound to the Contractor by the like obligation in respect of the subject matter of the Sub-Contract, as the Contractor assumes under this Contract. Without in any way limiting the generality of the foregoing, the Contractor shall ensure that any Sub-Contract contains adequate terms and conditions, providing for:

(i) Insurance by the Sub-Contractor.

(ii) Indemnity by the Sub-Contractor against losses caused by any delay, negligence or fault on his part.

(iii) The granting by the Sub-Contractor to the Engineer or his authorised agent of right of access for the purpose of inspection.

(iv) Acceptance by the Sub-Contractor of the directions and decisions of the Engineer.

(v) Acceptance by the Sub-Contractor of approval by the Engineer of work done by him as a condition precedent to payment of the Sub-Contractor by the Contractor, or the Principal.

(vi) The keeping by the Sub-Contractor, if work covered by a provisional sum is being executed by him on a cost-plus basis, of records and books of account, and the supplying of cost data showing the actual cost of all items of labour, materials, equipment, supplies and other expenses of any nature which constitute the cost of the work to be performed under the Sub-Contract.

(vii) The right of the Contractor, in the event of the cancellation of this Contract during the currency of any Sub-Contract, and at the request in writing of the Principal, but not otherwise, to assign to the Principal the Contractor's rights and obligations under such Sub-Contract.

7.2.4 It shall be a condition precedent to any sub-letting that the Engineer shall peruse and approve the terms and conditions of the Sub-Contract.

7.2.5. Any direction or instructions of the Engineer affecting any Sub-Contract or work being carried out thereunder, shall in normal circumstances be given by the Engineer to the Contractor and transmitted by the Contractor without delay to the Sub-Contractor.

7.2.6. In the event of any Sub-Contractor having undertaken towards the Contractor in respect of the work executed, or of the goods or materials supplied by such Sub-Contractor, any continuing obligation extending beyond the maintenance period, or beyond the date of any earlier termination of the Contractor's liability in respect of such work, goods or materials, the Contractor shall, at the request of the Engineer, assign to the Principal the benefit of such obligation for the unexpired duration thereof.

7.2.7 Nothing contained in this Contract, nor in any Sub-Contract shall be deemed to create any contractural relation between any Sub-Contractor and the Principal, except as may be created under Clause 7.2.3 (vii), or under Clause 7.2.6.

Part 8 - General Obligations

8.7 Engineer's Directions

The Engineer shall make periodic observations of the works to ascertain that such works as can be visually observed are being carried out generally in accordance with

the drawings, specifications and authorised variations and to ascertain the progress being made for the purposes of progress payments and the works programme.

The Engineer shall have authority to interpret or amplify the documents and such interpretation or amplification consistent with the general intent of the contract shall not be considered to be variations.

Nothing done by the Engineer in the way of approval, lack of comment or other exercise of his authority however expressed shall relieve the Contractor of his responsibility to instruct and maintain the works in strict accordance with the requirements of the drawings and specifications or of any of his other duties or obligations under the contract.

The Contractor shall be responsible for making good any subsequent effects of any alterations made by the Contractor whether or not the Engineer's approval is initially given.

8.18 - Permits and Fees

Time delays in the issuing of permits by local authorities shall not be grounds for any claims other than claims for extension of time.

Part 9 - Indemnity and Insurance

The Contractor shall effect the following Insurances:

9.3 Workers' Compensation Insurance is not required.

9.4 Public Liability Insurance in the joint names of the Principal and the Contractor shall be to the value of at least $150.000 for any one claim.

9.5 Fire insurance shall be covered by an All Risks policy and specific Fire Insurance shall not be required.

9.6 Contractor's All Risks Insurance in the joint names of the Principal and the Contractor shall be required. This shall include cover in respect of Engineer's re-design fees, costs of demolition and the removal of debris and Engineer's fees on demolition.

Policies shall fully cover the maintenance period and shall not be lapsed without the specific approval of the Engineer.

Evidence of the existence of the Policies specified above will be required.

Part 11 - Commencement Time and Delays

11.3 Completion Date

The date for completion of the whole of the works in this Contract shall be stated by tenderers

11.6.1 Liquidated Damages

The Contractor shall pay to the Principal the sum of $250 per week for every week that the completion of the Contract is delayed.

Part 12 - Maintenance and Defect

12.1 The Contractor shall maintain the whole of the works for a period of three months from the date of the Engineer's certification of substantial completion.

Part 15 - Measurement

Delete this clause.

Part 16 - Provisional and Prime Cost Sums

16.1.1 Provisional Sums

16.2 Prime Cost Sums

Tenderers shall allow separately for any profit or service charge on Provisional Sums and Prime Cost Sums, and this amount expressed as a percentage shall be stated in the Tender.

Tenderers shall allow Provisional and Prime Cost Sums as set out in the Specification. Payment from these Sums will be made only to the extent specifically authorised in writing by the Engineer.

16.3 Contingency Sum

The Contractor shall allow in the tendered Contract Price, for contingencies, the sum of $10,000 (ten thousand dollars) Payment of this sum shall be made only to the extent specifically authorised in writing by the Engineer.

Part 17 - Certificates and Payments

17.2.2 Delete the last sentence and substitute the following:

"This sum shall be subject to a retention of ten percent, which will include the retention required by Clause 17.1.1"

17.2.2(i) Add the words:

~~"as determined by the~~ Engineer"

17.3.1 Claims for advances on construction plant of up to forty percent of its value will be considered by the Engineer, provided that the total claim does not exceed ten percent of the Contract Price. Any advance on construction plant will be subject to final approval of the Principal.

P.6708

SPECIFICATION

for

Water Treatment Building

for

Gore Borough Council

SECTION 1 - GENERAL

1.1 Location

The work involved in this Contract is located between Wentworth and Talbot Streets in East Gore as is shown on the locality plan.

1.2 Extent of Contract

This Contract generally includes:

(a) The levelling of the treatment station site, the relocation and extension of security fencing, and the demolition of existing pumphouse and tanks.

(b) The grading, kerb and channel, sealing and fencing of the access road and yard and the landscaping of the Reservoir/ Treatment area as shown.

(c) The construction of the treatment station building in reinforced concrete, reinforced masonry and timber including joinery, built-in furniture, steel rails steps, etc, plumbing and drainage , painting and finishing.

(d) The supply and installation of asbestos cement, steel and cast iron pipework and specials below ground on the reservoir/treatment station site including two straight runs within the treatment station building as shown.

(e) All other work indicated, described or implied on the Drawings, in this Specification, and its appendices, or in the Special and General Conditions of Contract.

The contract does not include the supply and installation of treatment equipment or specialised electrical and control gear, and it also does not include building electrical work.

1.3 Drawings

The Drawings which refer to the various items of work included under Clause 2 are numbered 6708 in 20 sheets.

1.4 Information with Tender

The tender shall include the following information:

(a) List of Subcontractors.

(b) Service percentage on P.C. Sums.

(c) Schedule of Prices.

(d) Name of Insurance Company.

(e) Name of Surety

1.5 Examination of Site

The Contractor is expected to visit the site and familiarise himself with the conditions to ascertain the nature of the work and the extent of the work, and any other matter or thing which may influence the carrying out of the work in its entirety. No claims for extra payment will be considered which may arise from the Contractor's omission of this requirement.

1.6 Construction Programme

The Contractor shall supply to the Engineer, prior to the commencement of the work, a complete Construction Programme stating at what date he expects to complete various phases of the work in order to have the whole job completed by the stipulated Completion Date. The Contractor will be expected to adhere to this Construction Programme. Where this does not occur, the Contractor shall notify the Engineer of the reasons, and what steps he has taken to ensure that the work will be completed on time.

1.7 Materials and Workmanship

Where not specifically described elsewhere in this Specification, materials shall be the best of their respective kinds available on the current market, and all work shall be carried out in accordance with the best trade practice, and in accordance with relevant New Zealand Standards.

1.8 Protection of Materials and Works

All materials used or to be used in the works shall be effectively protected by the Contractor from damage, and any damage occurring from any cause whatsoever shall be made good by him. All excavations, holes, etc., shall be properly railed off, boarded over, and lighted at night, or otherwise guarded as a protection against accidents.

1.9 Permits and Fees

The Contractor shall be responsible for the obtaining of all Permits and for the payment of all Fees to Local Authorities, as required by Clause 8.18 of the General Conditions of Contract. The Engineer will supply Form of

Registration and Approval from the Building Project Registration Authority if required.

Any conditions or requirements placed on permits by local authorities shall be immediately passed to the Engineer in writing.

1.10 Temporary Power and Water Supply

The Contractor shall be responsible for the supply of temporary electric power and water that he may require. He shall make arrangements with the appropriate Local Authorities, or the Principal, and shall pay all Fees and charges.

1.11 Standard Specifications

N.Z.S. 1900, N.Z.S. 3631 and other Standards called on throughout this Specification may be viewed at the Office of the Engineer. All Standards, Codes and Regulations called upon throughout this Specification shall be deemed to include all such revisions and amendments thereto as are currently in force.

1.12 Setting Out

The exact position of the works will be established by the Engineer by means of a workpoint, a level datum, and an alignment in one direction. Thereafter the Contractor shall be responsible for the setting out of all lines and levels. The Contractor may call on the Engineer for services in connection with detailed set-out, in which case the Engineer shall charge fees as laid down by the New Zealand Institution of Engineers.

1.13 Alternatives and Equivalents

Where any item is mentioned by a trade name, or by other specific reference, it shall be deemed to mean the material or article so mentioned, or any other approved by the Engineer as equal thereto in price, quality, finish and durability, and equally serviceable for the purpose intended.

1.14 Approval

Approval of alternative, processes or conditions wherever specified will be exercised by the Engineer. The Contractor should ensure that adequate notice is given wherever approval is required. Any work or material requiring approval, which is covered up or installed without approval may be ordered to be uncovered or removed for approval, or may require monetary retentions for sufficient time to prove sufficiency.

Refer also to Special Conditions of Contract Clause 8.7 regarding Engineer's approvals.

1.15 Work Shown and Included

The tender documents show both generally, and specifically where necessary, the extent of the work included in this contract. It is not intended nor is it practical, that every minor detail or individual item required to complete the contract is included. Tenderers are expected to be experienced in the type of work for which they are tendering, and to take this fact into account when pricing work. If any material or work is inadequately described, specified, or omitted, yet be necessary for the proper and satisfactory completion of the whole contract then the tenderer shall allow for these items in his tenderer, significantly affects his tender price, then he shall state in writing in his letter of tender what he has allowed for.

1.16 Division of Drawings and Specifications

For convenience the specification and certain of the drawings are arranged generally in sections, but such divisions shall not be considered to limit the work required by a subcontractor or trade. Sections are arranged to cover generally subjects rather than trade.

All subcontractors shall view the documents as a whole to determine the extent of work required and as normal, it shall be the main contractor's responsibility to ensure that all items are covered.

1.17 Dimensions and Fit

In all cases figured dimensions shall be used in preference to scaling. It is the contractor's responsibility to ensure that new work fits with any existing work or components and also to ensure that all parts of the work fit and are compatible with each other. Any ambiguities should be immediately referred to the Engineer for his interpretation.

1.18 Construction Documents

No work shall be carried out from any documents other than those stamped "Approved for Construction", and signed by the Engineer to the Contract. No claims for extras shall be recognised resulting from the Contractor's failure to observe this requirement.

1.19 Co-operation with Other Contractors

Co-operate with other contractors who may be on the site during the course of this contract and also with Gore Borough Council staff who will be operating the current temporary scheme. The Contractor should not however take instructions from

Gore Borough staff and variations made on this basis alone will not be paid for.

SECTION 2 - EXCAVATION AND FILLING

2.1 Scope

This section of the specification covers the subject of siteworks as distinct from pipework and drainlaying to be done both prior to the construction of the building and after its completion. It is not intended however to limit the work required by any trade - refer clauses 1.16 and 1.15.

2.2 Fence Removal

Remove sections of security fence to be re-aligned taking care not to damage components and materials. Stockpile on site for later re-erection.

2.3 Site Clearing

Remove all vegetation, top-soil, organic material and rubbish from the area to be occupied by building, yard and roadway and the area to be covered by fill batters, stockpiling on site as directed.

2.4 Site Levelling

Level the treatment station site and yard to RL 119 as shown. Build out corner of site for filter installation access and compact thoroughly to the approval of the engineer, Stockpile remainder of weathered rock material on site in existing stockpile just outside security fence gate.

2.5 Foundation Excavation and Preparation

Thoroughly compact exposed subgrade, and excavate for foundation pads and beams to key a minimum of 100mm into subgrade. Subgrade beneath shall be capable of withstanding a sustained bearing pressure of 100 kPa as determined by the Engineer. If the subgrade at the required level cannot

withstand such a pressure, excavate to solid material and back-fill with approved granular fill. Any such additional excavations authorised by the Engineer shall be considered an extra.

Secure and maintain the sides of all excavations, and keep them free of water and fallen material.

2.6 Engineer's Approval

Prior to the spreading of hardcore, or the pouring of concrete, the Engineer's approval of foundation conditions and fill compaction shall be obtained. It shall be the Contractor's responsibility to notify the Engineer at least twenty-four hours in advance of when inspection will be required. The approval of the Engineer shall not relieve the Contractor of any of his responsibilities under the Contract.

2.7 Fill Beneath Building Slabs

After the pouring of foundation walls as shown, supply and place a well graded sand to cavities compacting by watering and vibrating to the approval of the Engineer. Fill material must be approved by the Engineer prior to commencing this work.

2.8 Back-Filling

Immediately after the stripping of boxing, all over-width excavation shall be back-filled and well rammed to the satisfaction of the Engineer.

2.9 Kerb and Channel

Build basecourse platforms or excavate as required to set accurate lines and grades and pour kerb and channel and kerbs to the details shown in the appendices to this specification. Joint at 5M intervals and cure for a minimum of seven days.

2.10 Sumps

Form sumps to the standard details shown in the appendices to this specification at low points as shown on the drawings. At low sump by reservoir, build end cut off wall with overhang to kerb and channel to stop water and positively direct it into the sump.

2.11 Access Road

Clear sides of access road, form water tables as shown and grade longitudinally and in cross-section to the approval of the Engineer.

2.12 Basecourse

Supply crushed basecourse to the grading and other requirements of NRB Standard specification M/4 to a nominal thickness of 150mm within site and 100mm to access road. Place to access road and yard, grade to kerbs and sumps as shown and compact to leave a stone mosaic suitable for sealing

2.13 Sealing

Apply a first coat between seal in accordance with NRB B/3 using Grade 3 chips to NRB M/6

2.14 Security Fence

Re-erect dismantled security fence to new alignments as shown and supply and erect additional security fence as required to the details shown on the drawings.

2.15 Stock Fence and Gates

Supply and erect stock fencing to the details shown in the appendices to this specification on both sides of the access road from Wentworth Street to the reservoir security fence. Allow for four standard cyclone farm gates to be installed where directed on site.

2.16 Landscaping

Spread topsoil from stockpile to areas to be landscaped as shown and supply additional topsoil as necessary to give a minimum depth of 100mm throughout.

Level and rake to the approval of the Engineer leaving in a condition suitable for sowing and landscaping.

Allow a PC sum of $500 for sowing and planting by nominated subcontractor.

SECTION THREE - PIPE-WORK

3.1 Scope

This section of the specification generally covers the subject of pipework. It does not however limit the work required by any trade-refer to Clause 1.16 and 1.15.

Water reticulation and fittings within the pumphouse building and foul sewer drainage are covered under Specification Section Four - Building.

3.2 Asbestos Cement Pressure Pipes

300 diameter and 100 diameter asbestos cement pressure pipes shall comply with the requirements of NZS 285. Class C. Joints to be "Supertite" with rubber rings to NZS 1311. Joints to cast iron specials to be Gibault.

3.3 Asbestos Cement Sewer Pipes and Fittings

200 diameter asbestos cement sewer pipes should comply with the requirements of NZS 1573. Joints to be "Supertite" type incorporating rubber rings to NZS 1311.

Bends and fittings shall be of asbestos cement to NZS 1573 or of an approved alternative.

3.4 Cast Iron Fittings and Pipe

The Contractor shall allow to supply all required cast iron fittings and cast iron pipe. Pipe and fittings shall be of Class C pressure rating to the requirements of N.Z.S. 1235 "Cast Iron Flanged Pipes and Fittings" with flanges where applicable to Table E of N.Z.S. 8. Special castings shall comply with N.Z.S. 286 (B.S.S. 78) or the A.I.S. Specification.

Pipes and specials shall be marked with the mark of the N.Z. or British Standards Institution or with a mark showing they have passed the A.I.S. Specification test.

All necessary rubber rings, bolts and jointing material for joints shall be supplied with the fittings.

3.5 Existing Underground Services

Existing foul sewers, stormwater sewers, water pipes, cables and other underground services and structures shown on the plans are for the information of the Contractor but their positions and completeness are not guaranteed.

It shall be the Contractor's responsibility to ascertain the existence and location of all underground services and to take all steps to prevent damage to any such cables, ducts, pipes or structures. Full information is available from the Gore Borough Council Engineering Department in respect of Gore Borough Services.

Any damage caused to any existing services during the Contract shall be repaired at the expense of the Contractor.

Where it is found that the exact levels or location of any existing services are not known, the Contractor shall hand excavate to accurately locate existing pipes and services in these locations prior to pipelaying operations coming within 100 metres of these points so that pipelines gradients can be adjusted if necessary.

3.6 Adjustments to Alignment and Levels

The Contractor will be expected to make minor alterations to the alignment and level of the pipelines when so instructed by the Engineer at no extra cost. Any major variations will be negotiated based on schedule rates if encountered.

3.7 Standard Specification N.Z.S. 4452

All excavation, bedding, laying, joiting, backfilling etc. shall be in accordance with the appropriate sections of N.Z.S. 4452: 1974 "Specification for Construction of Underground Pipe Sewers and Drains" except where specifically stated otherwise in this Specification.

Specific Contract requirements shall be as follows:

(a) Trench width (N.Z.S. 4452 - Clause 6.2) - Width B in Appendix E not to exceed D + 600 mm.

(b) Bedding type (N.Z.S. 4452 - Clause 7.2) Appendix E to N.Z.S. 4452 is shown as Appendix A1 to this Specification.

(i) To berm and field areas - Type B (Granular bedding)
(ii) To all roadway and driveway areas - Type S (Full granular backfill)

(c) Setting Out (N.Z.S. 4452 - Part 8). As an alternative, setting out may be by an approved method using a laser.

(d) Hydrostatic Testing (N.Z.S. 4452 - Part II) See Clause 3.15 of this Specification

3.8 Rock Excavation

In cases where rock is encountered requiring blasting an extra payment will be made for excavation. Rock is defined as solid material, unfractured having a hardness of three or more in the Mohr scale of hardness and includes boulders of more than half a cubic yard in volume. The Contractor shall supply to the Engineer the average number of linear feet of rock removed per pound of blasting material.

Tenderers should note that it is not expected that the weathered rock subsoil in the site area will require blasting. A special "weathered rock" excavation rate is defined here, and should be allowed for, for all buried pipework.

3.9 Anchor - Thrust Blocks

All bends, plugs and valves shall be securely anchored by concrete blocks against movement. The blocks shall consist of low grade concrete to be placed between solid ground and the fitting to anchored, and shall be of the following sizes at contact with the trench wall:

Fitting	Block Bearing Area	
	300 Diam Pressure Line	200 Diam Sewer
90^0 bend	1000 x 1000	250 x 250
$67\frac{1}{2}^0$ bend	850 x 850	200 x 200
45^0 bend	700 x 700	160 x 160
$22\frac{1}{2}^0$ bend	500 x 500	120 x 120
100 Branch Tee	300 x 300	100 x 100
75 Branch Tee	250 x 250	100 x 100

Concrete blocks shall be placed so as not to interfere with pipe joints and leave them accessible for repair.

Before commencing concreting the trench bottom shall be free from debris and water and when ordered by the Engineer, a sheet of galvanised iron 24 s.w. guage on Sisalkraft shall be placed in the trench bottom before placing concrete.

The cost of constructing anchor blocks shall be included in the unit rate for the complete installation of bends, plugs and valves.

3.10 Air Valve

Re-locate existing Blakeborough 2633 75mm air valve and hydrant tee as shown and service and clean as required to stop leaks.

3.11 Sluice Valves

Supply and install 300 diameter and 100 diameter sluice valves to the requirements of NZS 784 for class 1 valves. Install 300 diameter valve on plinth in filter room as shown and install 100 diameter valve in standard valve box to the details shown in the appendices to this specification.

3.12 Non - Return Valves

Supply and install 200 diameter and 100 diameter swing check valves to BS 4090 - Gillies Fig 3042G or approved equivalent. Install with concrete pipe to ground to leave access to cover plate and cap with suitable galvanised steel or precast top.

3.13 Stormwater Connections

The contract includes the connection of building down-pipes and yard sumps to the new backwash drain as shown. Run in PVC or glazed earthenware and connect to drain via asbestos cement Y to NZS 1573.

3.14 Building Water Supply

Run 38 diameter Class C alkathene from toby box at pumping chamber location to building as shown.

Class D Pipe Type. 7602

3.15 Hydrostatic Testing

All sections of the work shall be hydrostatically tested in the presence of the Engineer and the Borough Engineer or his representative. It is intended that sections should be tested prior to backfilling with each individual pipe anchored by backfill between joints only. However, the Contractor may elect to complete backfilling prior to testing at his discretion in which case uncovering shall then be carried out as necessary to locate and repair all leaks.

Final acceptance testing shall be carried out after all backfilling is completed immediately prior to final end connection.

Ends shall be securely strutted and the line slowly filled with water from the lower end taking care to expell all air. The line shall then be maintained filled with water for an absorption period of 24 hours.

The pressure shall then be slowly raised to the following pressures at the lowest points:

Rising Main	1.35 MPa (140 metres head)
Delivery Main	1.35 MPa (140 metres head)
Scour Main	60 KPa (6 metres head)

The acceptance limit shall be a water loss not exceeding the following:

Rising and Delivery Main ..	10 litres per km per hour
Scour Main	20 litres per km per hour

3.16 End Connections

The contract initially includes the connection of the new mains to the existing rising main and to the reservoir inlet main as shown. However this operation should be left until the end of the contract and the Principal reserves the right to delete this work from the contract.

The contract also includes the connection of the new backwash drain and the sump SW drain to the existing reservoir scour line as shown. The existing main should be excavated at this point to determine exact requirements prior to ordering any specials.

3.17 Surfaces Reinstatement

All disturbed surfaces shall be reinstated to at least their existing condition prior to site and landscaping works commencing.

3.18 Flushing and Sterilising

On completion of testing, repairs and backfilling, all pipework shall be thoroughly flushed at flow rates giving velocities in excess of 800 mm per second. The mains shall then be drained and slowly filled with pure water containing 50 p.p.m. of free chlorine. Leave for 24 hours after which time the residual must not be less than 10 p.p.m. If it is less, repeat the sterilisation.

SECTION FOUR - BUILDING

4.1 Scope

This section of the specification generally covers the subject of the building work. It does not however limit the work required by any trade - refer to Clauses 1.16 and 1.15.

4.2 Demolition

Consult with the Engineer and with Gore Borough staff regarding timing of demolition of existing pumphouse, and tanks and afford access to Borough staff removing pump, and fittings.

Demolish building and tanks, removing all rubbish and debris from the site. Recovered materials shall remain the property of the Gore Borough Council who shall direct as to their disposal or storage location.

4.3 Reinforcing

Reinforcing shall be deformed bars to the requirements of N.Z.S. 3402P: 1973 Grade 275 steel, except that stirrups and column ties may be of plain bars.

Reinforcing shall be bent to the minimum radii set out in NZS. 1900: Chapter 9.3A, Table 10 and, where required, standard hooks as defined in N.Z.S. 1900: Chapter 9.3A shall be formed.

Reinforcing delivered to the site must be kept off the ground and, at the time of concreting, bars shall be free of dirt, oil, loose mill scale and rust.

Reinforcing shall be held securely in place prior to concreting, and all intersections and laps shall be tied with annealed soft iron wire.

4.4 Concrete Standard Specification

N.Z.S. 1900: Chapter 9.3A, 1970 "Concrete" and all Standard Specifications referred to therein shall be read with, and form part of, this Specification. Except where otherwise specified herein, all concrete work and finishing shall be in accordance with this Standard Specification.

4.5 Tolerance on Dimensions

All shown dimensions of the concrete shall be established accurately within one of the following sets of tolerances:

	Dimensions less than 1 m	Dimensions 1 m to 15 m	Dimensions greater than 15 m
Below Ground	6 mm	12 mm	25 mm
Above Ground	3 mm	6 mm	12 mm

In addition to the foregoing, the standard of tolerance shall be such that attachments, finishes, equipment, etc., can be installed accurately as required by the Drawings and Specifications.

4.6 Concrete

All concrete shall be to the requirements of N.Z.S. 1900: Chapter 9.3A, 1970, for the various grades and strengths as specified below. In addition, concrete and concrete work shall comply with this Specification.

Concrete shall either be obtained from a batching plant approved by the N.Z. Ready Mixed Concrete Association Incorporated, for the appropriate grade, or shall be site batched and mixed of the materials, by the methods, and under the controls specified in N.Z.S. 1900: Chapter 9.3A.

Concrete shall be of the grades, and shall have the

twenty-eight day compressive strengths statistically specified in N.Z.S. 1900: Chapter 9.3A, as follows:

(a) Foundation beams, nibs, aerator tank and floorslabs .. .. 20 MPa High Grade

(b) Blocks infill grout .. .. .. 17.5 MPa Ordinary Grade

Concrete placing, practice, curing and stripping shall be as specified in N.Z.S. 1900: Chapter 9.3A. Concrete slump and compression testing, and sample frequency shall be as specified in N.Z.S. 1900: Chapter 9.3A.

4.7 Masonry Standard Specification

N.Z.S. 1900: Chapter 6, Division 6.2 and Chapter 9, Division 9.2 shall be read with, and form part of this Specification.

4.8 Concrete Blocks

Concrete blocks shall be waterproof standard grey, Class A concrete units to N.Z.S. 595 "Concrete Masonry Units", containing Onoda N.N. Waterproofing, and shall be sound, true to shape and with sharp arrises, clean and undamaged. Before use the blocks shall be kept dry, free from contact with the ground, and covered from the weather with a tarpaulin. Blocks shall be steam and yard-cured before being brought onto the site.

4.9 Blocklaying Practice

Blocklaying shall be carried out by expert blocklayers in a firm of Contractors specialising in the laying of concrete blocks. Only first-class workmanship will be accepted.

Mortar shall be Mix No. 1-12.5 MPa as defined in Clause 6.2.4 of N.Z.S. 1900, and shall contain Onoda N.N. emulsion used strictly in accordance with the manufacturer's instructions. During the progress of the work, every care must be taken to prevent shrinkage by adequately protecting blocks from moisture penetration. Form weepholes and control joints in accordance with normal practice, and as shown on the Drawings. Form 25 mm deep by 10 mm recess at control joints, and fill with 10 mm x 10 mm grey Uraflex One. All joints shall be of even width and shall be formed with a hollow tool. On completion, grind off all nibs and clean down.

4.10 Concrete Block Infill Grout

All reinforced cores, all bond beams and lintels, and all cores of fire walls shall be filled with grout concrete of minimum compressive strength 17.5 MPa. Prior to filling cores, remove all rubbish and mortar droppings via "rake-out" openings in bottom course, and obtain the Engineer's approval. Place, sample, test and cure concrete, as specified in Clause 4.6.

4.11 Floor Slabs

On compacted sand, lay Moistop 737, lapped at least 50 mm, and sealed with 50 mm pressure sensitive plastic tape - Blaxstrap or equivalent.

Pour slabs in longitudinal strips as shown, with keyed construction joint between.

Reinforce with HRC 665 mesh, laid 30 mm from top surface and lapped two squares, supporting in position with three 75 x 75 concrete pieces per square metre.

Compact and screed with a vibrating screed, and power-float to a hard, dense, smooth finish. As soon as initial set has taken, saw transverse joints as shown to control shrinkage cracking. Keep permanently damp for at least seven days, or use an approved curing compound.

4.12 Building-In

As concrete work proceeds, build-in all bolts, wires, rods, etc., necessary for securing timber, steel and concrete blocks to foundation walls, pads, piles and floors. Set 150 mm x 10 mm diameter bolts at 1 metre centres for fixing timber frames. Built-in bolts shall be used in preference to ramset bolts wherever practical for fixing timber to concrete components. Also cast in PVC ducts for future control and dosing lines as shown.

4.13 Structural Steel Materials

(a) All steel shall be to the requirements of B.S. 4360: Part 1, 1968 Grade 43A or Grade 43C.

(b) Mild steel bolts shall be to the requirements of N.Z.S. 1069: 1966 Grade B.

4.14 Structural Steel Workmanship

Structural steel workmanship, construction, fabrication and erection shall conform with the requirements of N.Z.S. 1900: Chapter 9.4, Parts H and J. All members shall be free from twists and distortions, and parts shall be assembled in such a manner that they are not twisted or otherwise damaged. Structural steel frames must be well braced at all times, using temporary bracing if necessary.

4.15 Welding

Welding and welding equipment shall be in accordance with the following Standard Specifications, as appropriate:

Welding Plant	B.S. 638
Covered Electrodes	B.S. 639
Procedures and Requirements	B.S. 5135

Welding shall be carried out only by qualified welders, who may be required to produce evidence of their ability or to pass qualification tests as set out in N.Z.S. 1366: Part 1.

Joints shall be prepared to the dimensions given in B.S. 5135, and shall be cleaned of oil and flame cutting oxides, prior to welding. Pre-heat where required, and do not weld in wet or windy conditions.

4.16 Galvanising

All steel ladders, stairs, rails and grills and other steel components shall be hot dip galvanised after fabrication.

4.17 Steel Frame at Filters - Preparation

The south wall steel frame shall be sand or grit blasted to a minimum standard of Sa 2½, as specified in Swedish Standard SIS 05 59 00.

Mill scale, rust and foreign matter shall be removed to the extent that the only traces remaining are slight stains in the form of spots or strips. Finally, the surface shall be cleaned with a vacuum cleaner, clean dry compressed air, or a clean brush, and the surface shall then correspond in appearance to the prints designated Sa 2½ in Swedish Standard 05 59 00.

Newly cleaned steelwork shall be over-coated within four hours of blasting. On no account shall newly blasted steelwork be left overnight prior to over-coating. If this situation should occur, the surface shall be freshly blasted prior to painting.

4.18 Steel Painting in Fabrication Workshop

Apply by conventional air spray in conjunction with pressure pot, one coat of Dimetcote 6 to achieve a dry film thickness of 2½ mils.

4.19 Timber Standard Specifications

The following Standards, together with all current amendments shall be read with and form part of this Specification:

N.Z.S. 1900, Chapters 6.1 and 9.1 "Timber"
N.Z.S. 3631, 1978 "Classification & Grading of N.Z. Timbers"
Timber Preservation Authority "Specifications"
N.Z.S. 3614, 1971 "Construction Plywood"

4.20 Timber Materials

All timber shall be seasoned and dried to a moisture content of less than eighteen percent prior to use.

Species, gradings and preservation treatment shall be as follows:

(a) Internal Structural Timber

Studs, dwangs, rafters, trusses etc and all other structural timber shall be of No. 1 Framing Grade Radiata Pine, or of Building A Grade Rimu, to the grading requirements of N.Z.S. 3631, preservation treated to T.P.A. Commodity Specification C8 "Low Decay Hazard", to the nominal sizes as shown on the Drawings, Gauge two edges where framing is lined.

(b) External Structural Timber

Exposed framing shall be as above, but preservation treated to T.P.A. Commodity Specification C7

(c) Exterior Joinery, Facings, etc.

Such timbers shall be Dressing A Grade Rimu, preservation treated to T.P.A. Commodity Specification C7 or

Dressing Grade Radiata preservation treated to T.P.A. Commodity Specification C6.

(d) Internal Facings and Finishing Timbers

Exposed timbers in this category shall be Dressing A Grade Rimu.

(e) Nailplate Trusses

Nailplate trusses shall be supplied by a fabricator approved by the Engineer and shall be covered by the design certificate of a Registered Engineer. Handle and install in accordance with the designer's and manufacturer's instructions, and brace as required.

4.21 Timber Practice

(a) Damp Proof Course

Continuously separate all timber from contact with concrete or blocks, using a layer of two-ply bituminous sheet damp course.

(b) Internal Partitions

Frame up as shown on the Drawings with 100 mm x 50 mm studs at 600 mm centres, dwangs at 800 mm centres, and 100 mm x 25 mm or Pryde steel angle flush bracing. Solid dogleg brace to narrow widths. Provide additional 50 mm x 50 mm dwangs where necessary to suit wall lining.

Form lintels, install joinery, trim and build as shown, and in accordance with best trade practice.

(c) Demountable Partitions

Construct demountable partitions in one piece by above

methods. Mount in place by an approved method allowing easy future non-destructive removal and replacement.

(d) Finishing

Use brass, galvanised or special exterior nails and screws. Stop all nailholes in exposed work with suitable non-staining putty. Sand all dressed exposed finishing timbers to a fine finish.

4.22 Ply Sarking Diaphragm

Supply and install 12.5 mm Construction Ply sarking, Grade CC, to the requirements of N.Z.S. 3614, with tight nailing edges and free from gross defects. Ply diaphragm provides lateral restraint to building frames and to end walls against wind and seismic loadings. Lay ply with face grain perpendicular to framing members. Stagger end joints, dwang with 100 mm x 50 mm at all sheet edges, and closely butt sheets on member centre lines. Nail with 50 mm x 9 ga nails at 150 mm centres to all sheet edges, and at 300 mm centres to all intermediate members.

4.23 Roof Cladding

Supply and install fire retardant breather type building paper to N.Z.S. 2295 over entire roof, lapping at least 200 mm. and supported on 50 mm x 1 mm galvanised wire netting.

Supply and install 24 gauge galvanised steel Dimond 16, or approved equivalent, tray roofing to all roof surfaces. Cut to required full lengths, and fix in full accordance with the manufacturer's recommendations.

Use Dimond Canterbury Prickle or equivalent detail at all ridges, with upstands fully capped. Seal off all ends, turn down into gutters, and flash and seal to render the whole roof fully water-tight.

4.24 Gutters and Downpipes

Provide, fabricate and install 24 gauge galvanised steel gutters, Dimond or equivalent pre-formed fascia eaves gutters, 16 gauge galvanised iron rainheads, and PVC down-pipes securely fixed, all as shown, in accordance with best trade practice, and to the approval of the Engineer.

4.25 Flashings

Flash and cover-flash all vent pipes, roof lights, window heads, door heads, wall tops, angles, etc., and wherever else shown or necessary to render the complete building water-tight.

4.26 Roof Lights

Form roof lights as shown using clear "Duralite f" or equivalent sheeting to match trays profile. Fix to purlins with screws having a felt or plastic washer between the aluminium washer and the sheeting. Seam bolt edge laps at 300 mm centres between purlins.

4.27 Insulation

In office area only, install R13 100 mm fibreglass building batts in ceiling cavity.

4.28 Doors

Supply and install doors complete with hardware as specified on the Door Schedule (Drawing 6708/13)

Supply and install two metalbilt or approved equivalent industrial roller shutter doors with approved locks.

4.29 Windows

Supply and install windows complete with glazing as specified on the window schedule (Drawing 6708/13)

4.30 Wall and Ceiling Linings

Provide and install wall and ceiling linings as detailed and as specified in the Schedule of Linings and Finishes (Appendix C to this specification)

Materials and fixing to be as follows:

(a) Prime Coat Insulating Board (Pinex)

Fix 12.5 mm sheets by stapling, or by 30 x 1.6 mm oxo-sealed panel pins driven at an angle to surface. Joint by the formation of a uniform bevel to form a Vee joint, leaving 1 mm movement gap,or by the use of N.Z. Forest Products PFS1 aluminium moulding primed with a suitable zinc chromate metal primer.

(b) Hardboard

To be 4.75 mm sheets fixed around edges with PVC joint strips, and secured to intermediate members with cadmium plated pins at 250 mm centres, punched below surface.

(d) Bisonboard

To be 8 mm sheets fixed to framing with 40 x 1.6 corrosion resistant panel pins at 150 mm centres to edges and 250 mm centres to intermediate members. Joint edges using extruded PVC mouldings.

4.31 External Claddings

Supply and install external claddings as detailed on the drawings. Sheath framing with breather type building paper and fix as follows and as recommended by the manufacturer.

(a) Asbestos Cement Flat Sheeting

Drill screw holes with masonry drill leaving 1 mm clearance and counter-sunk. Fix with 38 mm x 10 g galvanised or brass screws at not less than 15 mm from sheet edges and spaced at 300 mm around perimeter and at 450 mm for intermediate fixing. Commence fixing from centre of sheets.

(b) Coverline, Highline, Porch-panel, etc. Ribbed Asbestos Cement Panels

Pre-drill and fix with 40 mm x 13 gauge galvanised shear point nails spaced at 225 mm centres horizontally and at 600 mm centres vertically. In exposed locations, use 50 mm galvanised flat head nails.

4.32 Skirtings, Architraves, Railings, Cornices, etc

Provide and install mouldings to details as shown on the drawings, as follows and as required to complete in accordance with best of trade practice.

(a) Cornices generally - 25 x 25

(b) Architraves generally - 40 x 16 slightly bevel edge

(c) Skirtings generally - 90 x 16 with top edge slightly bevelled.

4.33 Built-In Furniture

Provide and install and finish built-in furniture and joinery as shown and detailed and as follows:

(a) Sinkbench - as detailed on drawing

(b) Workbench - as detailed on drawing.

(c) Log Desk - as detailed in the appendices to this specification.

(d) Lockers and seat unit - as detailed in the appendices to this specification.

4.34 Plumbing and Drainlaying Regulations

The whole of the drainlaying and plumbing work shall be carried out, completed and tested in accordance with the Drainage and Plumbing Regulations 1978, and to the entire satisfaction of the Sanitary Inspector and of the Engineer. Any special fittings not specifically mentioned, but required by the Bylaws, must be allowed for.

4.35 Cold Water Supply

Run 38 diameter alkathene main from Talbot Street supply as shown. Continue within the building as shown on the plumbing drawing.

4.36 Hot Water Supply

Supply and install a 20 litre mains pressure under-bench hot water cylinder.

Run 15 mm copper lagged with two layers of plumber's felt diagonally wound to serve the fittings each with a 15 mm diameter connection.

4.37 Sanitary Fittings

Supply and install the following sanitary fittings, complete with all necessary accessories, vents, fittings, etc.

(a) One first quality McSkimming's Glen Afton W. C. pan, complete with white Dux flush pipes, Dux white cisterns with Stanley valves, black Modernite delux seats and flaps, and Methven Ultraline angle stop cocks.

(b) Corner circular stainless steel WHB as shown with two Methven Ultraline C150 taps, plug, chain, waste etc.

(c) 450 x 300 sink to plastic laminate bench top with Methven UL 88 wall mounted mixing faucet and plug, chain etc.

(d) Allow a P.C sum of $500 for the supply and installation of emergency shower treadle valve, hinged base and dousing head. Details of this will be issued to the contractor by bulletin.

(e) Easyclean traps to floor drains as shown and as detailed in the appendices to this specification.

(f) Soda sump drain plug and chain.

(g) Plugs to pipe ends chlorine, soda, fluoride rooms etc.

(h) Other fittings and ends as shown.

4.38 Concealed Installation

All water service pipes, wastes and vents shall be built-in wherever possible, and where unavoidably exposed shall be neatly finished.

4.39 Contact of Dissimilar Metals

To avoid corrosion by galvanic action, do not allow galvanised iron to be in contact with aluminium, asbestos cement or copper. Separate with a layer of Malthoid or, in the case of pipes, as suitable spacer.

4.40 Hardware

Allow a P.C. sum of $250 for the supply of all hardware, other than door furniture, including toilet holders, cupboard handles and catches, kick plates, etc. excluding hinges and screws. Contractor to allow for fixing hardware.

4.41 Foul Sewer Drainage

Foul sewer pipes shall be 100 mm rubber ring jointed concrete, or UPVC to N.Z.S. 7649, as shown on the Drawings. Sumps, traps, vents, and connectors shall be constructed as shown, and in accordance with normal trade practice. Terminal vents shall be 100 mm PVC Novasoil, carried up above roof, and fitted with birdproof cowl.

Pipes' classes and minimum cover shall be as shown, and as for stormwater drainage. Minimum gradient to be 1:80. Terminate sewer at boundary fence for continuation to Talbot Street main by others.

4.42 Painting Workmanship

(a) Standards

All paint, preparation and painting work shall be carried out by skilled tradesmen in conformity with N.Z.S. 2239: 1968 "Recommendations for the Painting of Buildings".

(b) Materials

All paint systems shall be first quality, using only freshly opened containers, and all paint shall be applied strictly in conformity with the manufacturer's instructions. Where the Contractor cannot guarantee good finish with the number of coats specified, he shall allow extra coats accordingly.

(c) Sanding and Preparation

Ensure adequate surface preparation as required, and lightly sand down between coats. Do not commence work on unsatisfactory surfaces. Contractor shall make good or repaint after necessary repairs or replacement at his own expense.

(d) Samples

Allow to prepare adequate samples of all finishes, particularly staining, which shall be approved before work commences. Any final work inferior to the approved samples shall not be accepted.

(e) Colour Schedule and Systems Confirmation

The Engineer will provide a schedule of colours and will confirm the following systems schedules on request. The Contractor shall give the Engineer at least two weeks notice of when the colour schedule will be required.

4.43 Exterior Painting

Allow to paint all exposed exterior building surfaces except loading deck slab and steps as follows:

(a) Concrete and Asbestos Cement Surfaces

Two coats Dulux Weathershield

(b) Concrete Block Surfaces

One coat Dulux Masonry Filler
Two coats Dulux Weathershield

(c) Galvanised Steel Roofing, Gutters, etc.

Degrease with Deoxidine 424, or approved equivalent.
One coat of Dulux primer for galvanised iron, or approved equivalent.

Two coats of Dulux Spruce roof paint, or approved equivalent.

(d) Exterior Bargeboards, Facias, and Painted Timber

One coat Dulux Wunderprime.
Two coats Dulux Spruce.

(e) Security Fence

One coat Dulux Galvanised Iron Primer
Two coats Dulux Weather shield.

4.44 Interior Painting and Papering

For finishes designation, refer to the Schedule of Linings and Finishes (Appendix C to this specification). Finish areas as designated as follows:

(a) Prime Coat Pinex

Two coats Dulux Vinyl Satin Plastic

(b) Hardboard

Two coats Dulux Wundercoat
Two coats Dulux Super Enamel

(c) Exposed Galvanised Steelwork

One coat Dulux galvanised iron primer
Two coats Dulux Spruce

(d) Bison-Board, Exposed Rafters etc and Ply Sarking - Throughout

One coat Dulux Wunderprime
Two coats Dulux Spruce

(e) Concrete Block Surfaces - All Rooms

One coat Dulux Masonry Filler
Two coats Dulux Spruce

(f) Built-In Furniture, Mouldings, Joinery

Two coats Dulux Wundercoat
Two coats Dulux Super Enamel

4.45 Tidying

On completion of the Contract, the whole of the buildings and the site shall be left in a clean and tidy condition. Leave floors, slabs, etc. broom clean, remove all paint and putty marks and clean and polish all glass inside and outside. Remove all rubbish, unused materials and temporary works from the site, and leave all areas fit for occupation.

SECTION FIVE - ELECTRICAL AND CONTROL CABLES

5.1 Scope

This section of the specification covers the subject of electrical and control cables but it is not intended to limit the work required from any trade. Refer also to Clauses 1.16 and 1.15.

The work includes the supply and installation of underground cables necessary for the establishment of the final power and control system, but does not include the supply or installation of that system.

5.2 Reservoir Signal Cable

Extend as necessary the alkathene pipe already buried to carry this cable into the treatment plant, adjacent to the point that the reservoir line leaves the building and extend to the foot of the ladder to the manhole. Draw in the cable leaving not less than 10 metres of coiled cable at each end of the alkathene pipe.

5.3 Talbot Street Submain

Install underground cable, complete with foil backed warning tape from the treatment station to the site of the Talbot Street pumping chamber. The cable is to enter the treatment station through build-in "F" and is to be left with not less than 3.5 metres coiled inside the building. The cable is to terminate at the pump station site with not less than 3.5 m of coiled cable. Any joints are to be made either above ground in pillar boxes of approved types in approved locations, or in proper, underground jointing chambers with steel lids.

5.4 Main Supply

The contractor shall allow to supply and install the main cable required by the Supply Authority. This cable is to enter the building through build-in "F" and is to have at least 2 metres of spare cable in the building.

5.5 Regulations and Standards

All work shall be in accordance with the New Zealand Electric Wiring Regulations, and all relevant New Zealand Standards, and local by-laws.

Gore Treatment Station

Specification Appendices

(a) Kerb only, Kerb and Channel

(b) Sump

(c) Linings and Finishes Schedule

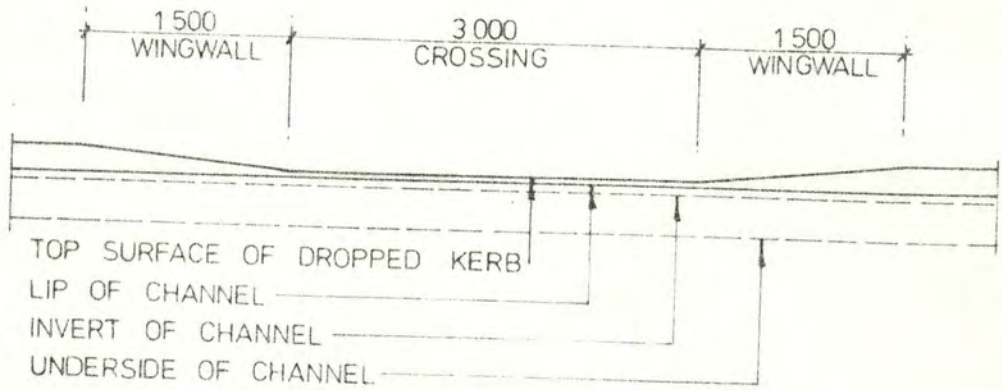
(d) Lockers and Seat Unit

(e) Log Book Desk

(f) Easy-Clean Traps

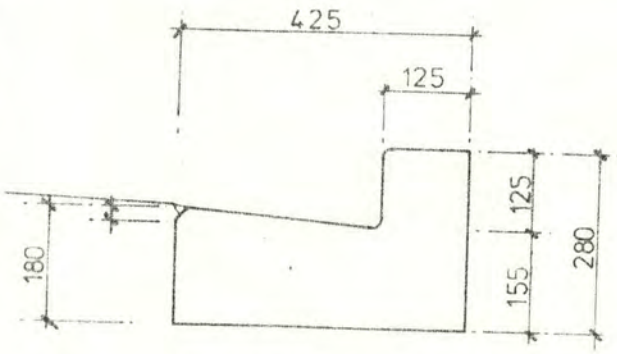
(g) Sluice Valve and Valve Box

(h) Stock Fence Detail.

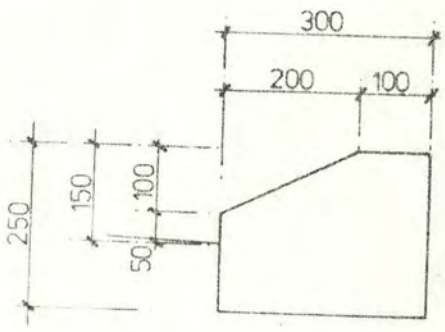


VEHICLE CROSSING ELEVATION

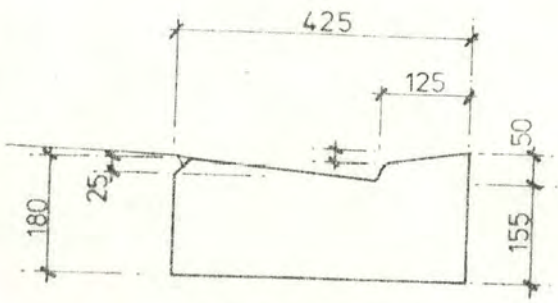
NB ROAD EDGE TO BE 5 ABOVE CHANNEL
ALL RADII TO BE 20 MINIMUM



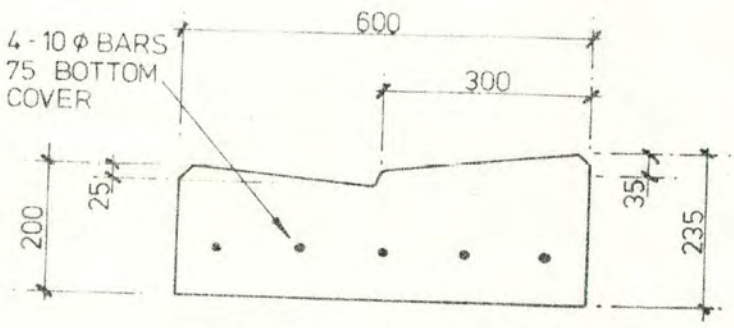
KERB & CHANNEL



MOUNTABLE KERB

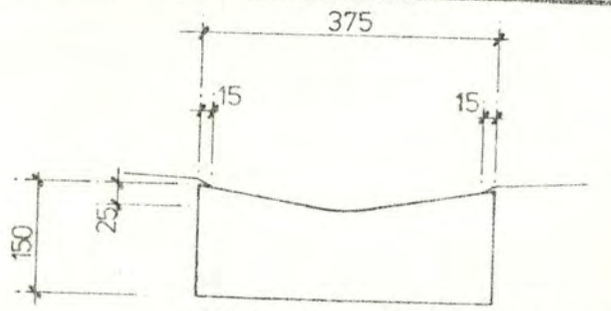


VEHICLE CROSSING



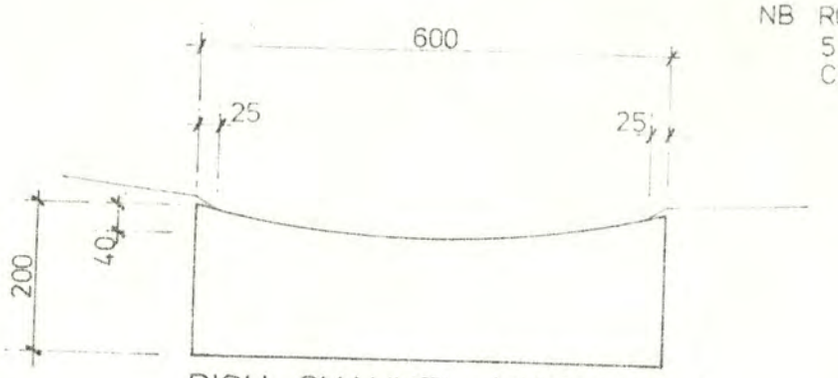
HEAVY DUTY CROSSING

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD KERB AND CROSSING DETAILS	SCALE N.T.S.	
		DATE MARCH '80	
		APPROVED	
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708	DRG NO A1

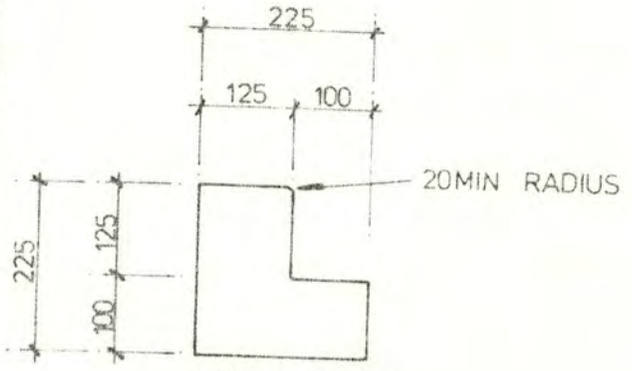


DISH CHANNEL (375 WIDE)

NB ROAD EDGE TO BE 5 ABOVE LIP OF CHANNEL

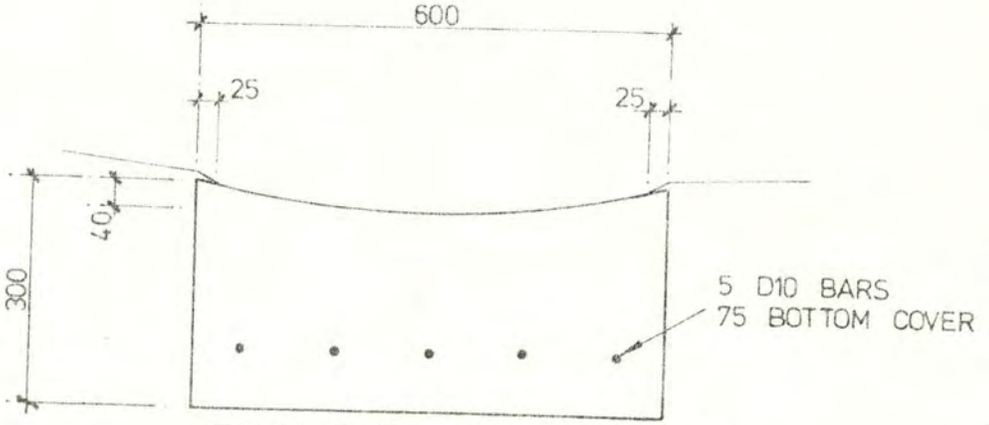


DISH CHANNEL (600 WIDE)



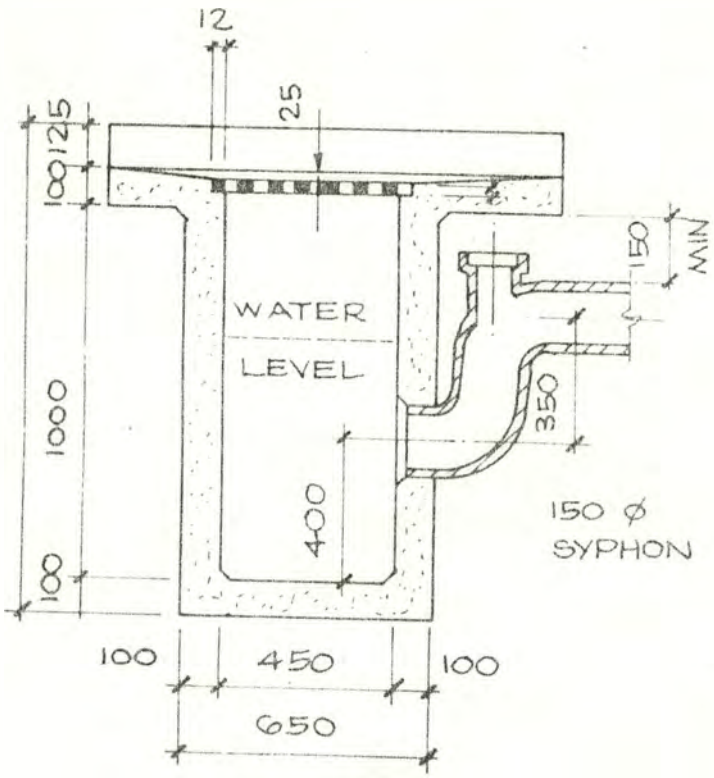
KERB ONLY

ROAD EDGE

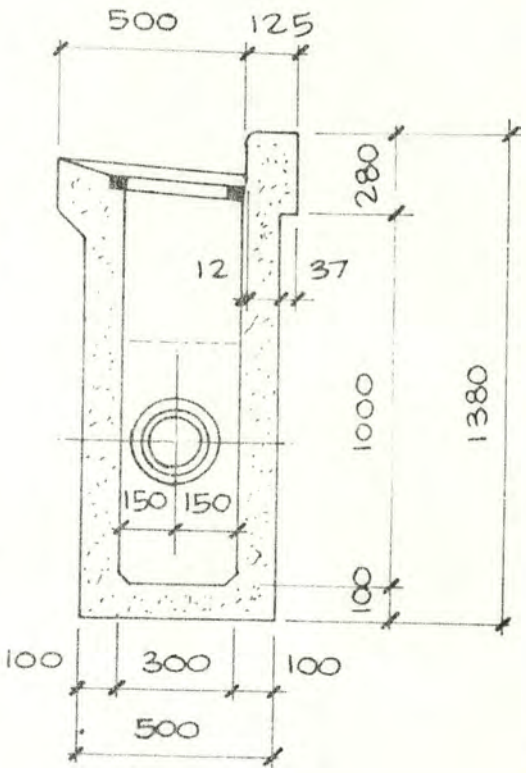


HEAVY DUTY DISH CHANNEL

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD DISH CHANNEL DETAILS	SCALE 1:100	
		DATE MARCH '80	
		APPROVED	
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708	DRG NO A 2

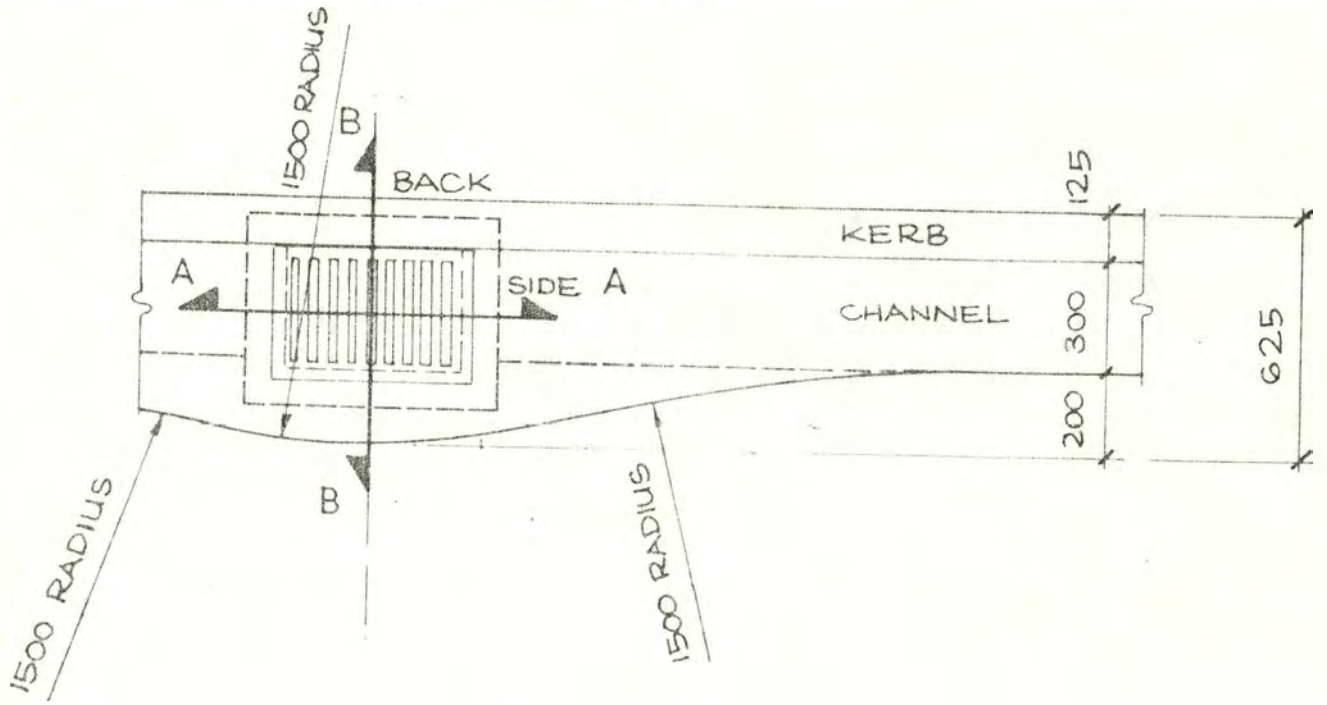


SECTION A-A



SECTION B-B

NOTE : ONLY BACK AND SIDE CONNECTIONS TO BE MADE



PART PLAN

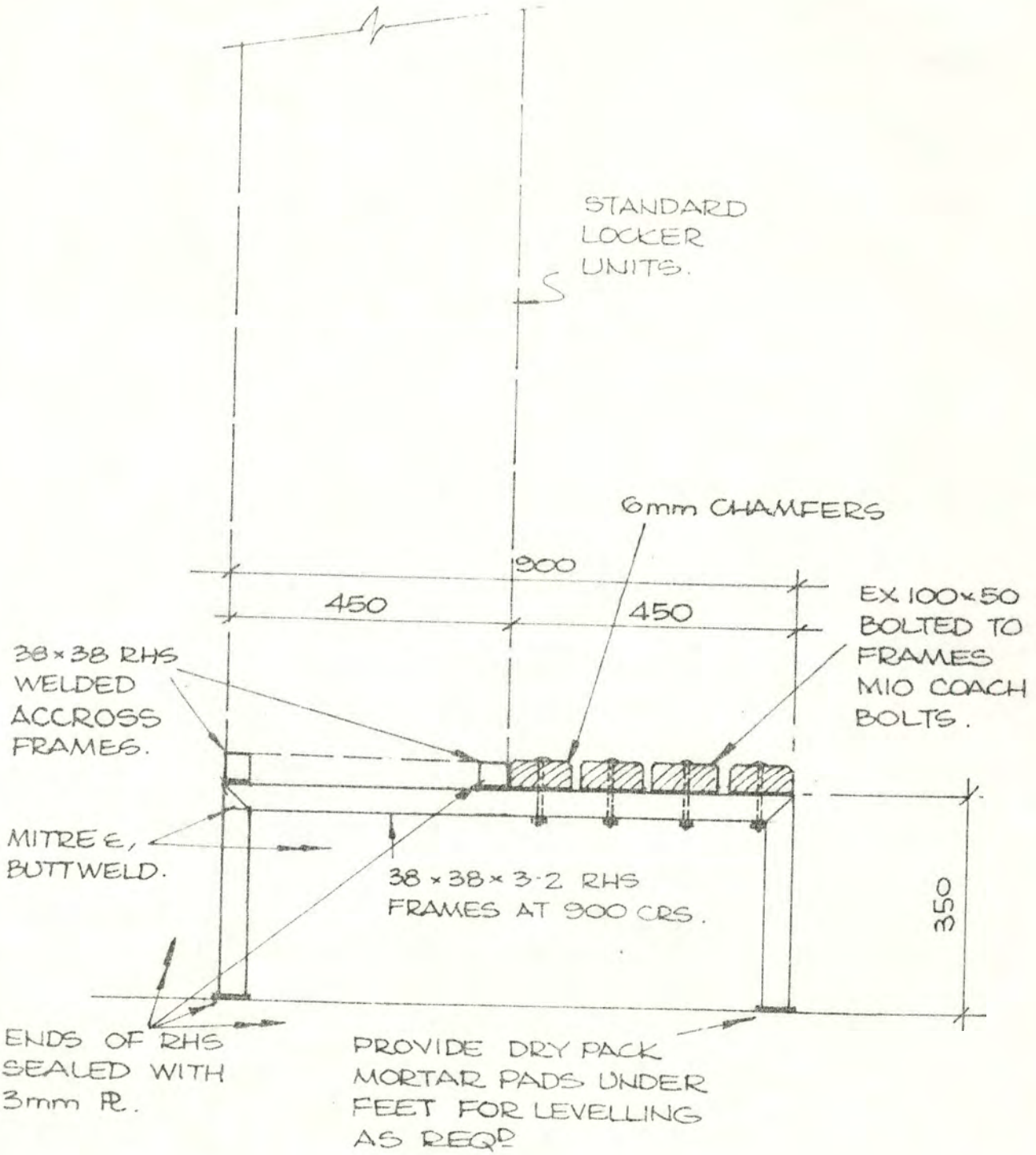
T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STORMWATER SUMP	SCALE 1:50
		DATE MARCH '80
		APPROVED
NORDEN CHAMBERS 55-59 ALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO B

Gore Treatment Station

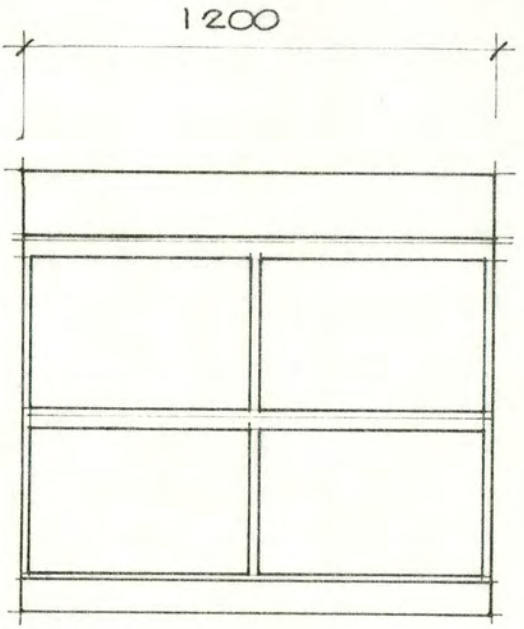
Schedule of Linings and Finishes

ROOM	WALL	LINING		CEILINGS		WINDOWS & DOORS TRIM, ETC	JOINERY FITTING		
		MATERIAL	FINISH	MATERIAL	FINISH		FITTING	MATERIAL	FINISH
Office	All	Hardboard	Paint	Pinex	Paint	Stain & Poly - U	Desk Sinkbench	Timber & Particle Board	Paint
Locks /WC	All	Hardboard	Paint	Pinex	Paint	Paint	Seat	Timber	Paint
Chlorine Soda Fluorine Generator Switchroom Filter & Treatment	Demountable Partitions and Filter/Locker	8mm Bisonboard	Paint	Exposed ply Sarking & Rafters	Paint	Paint	Work Bench	Timber	Paint
	Remainder	Conc Block	Paint						

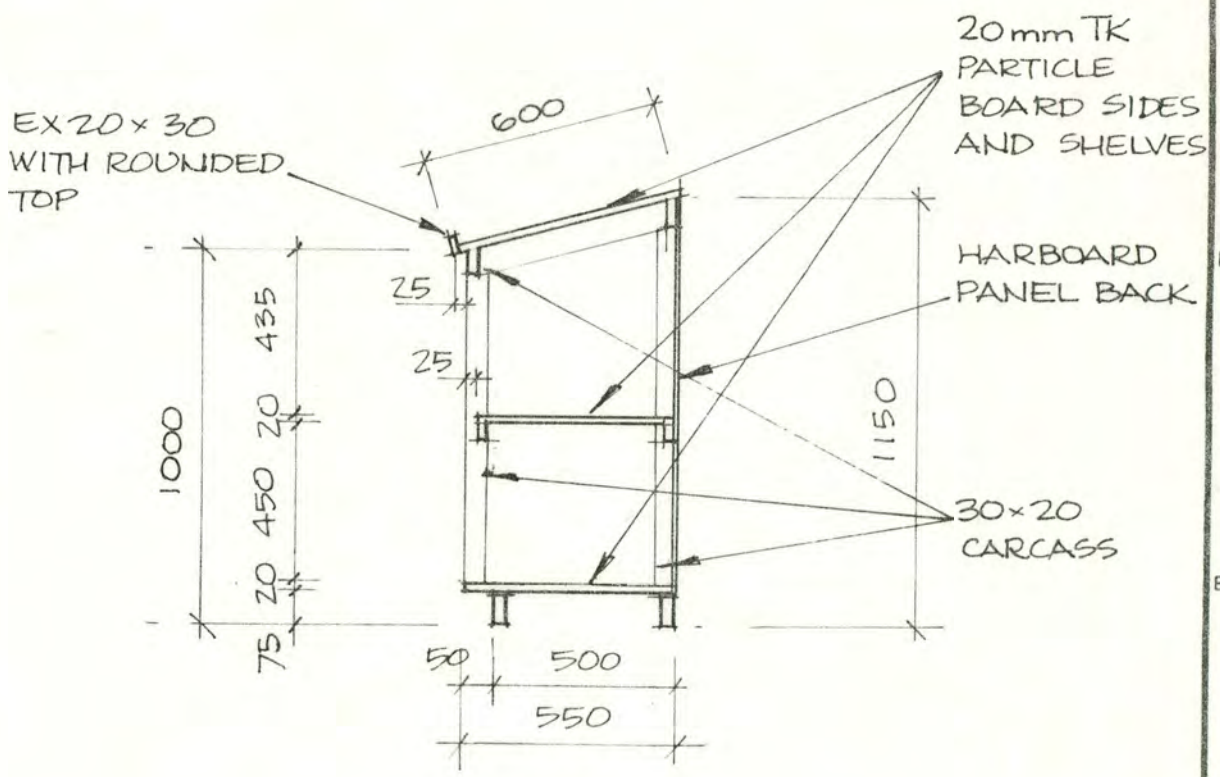
N.B. ALL STEEL TO BE GALVANISED.



T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD LOCKER ROOM SEATING	SCALE 1:10
		DATE 1979.
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO D

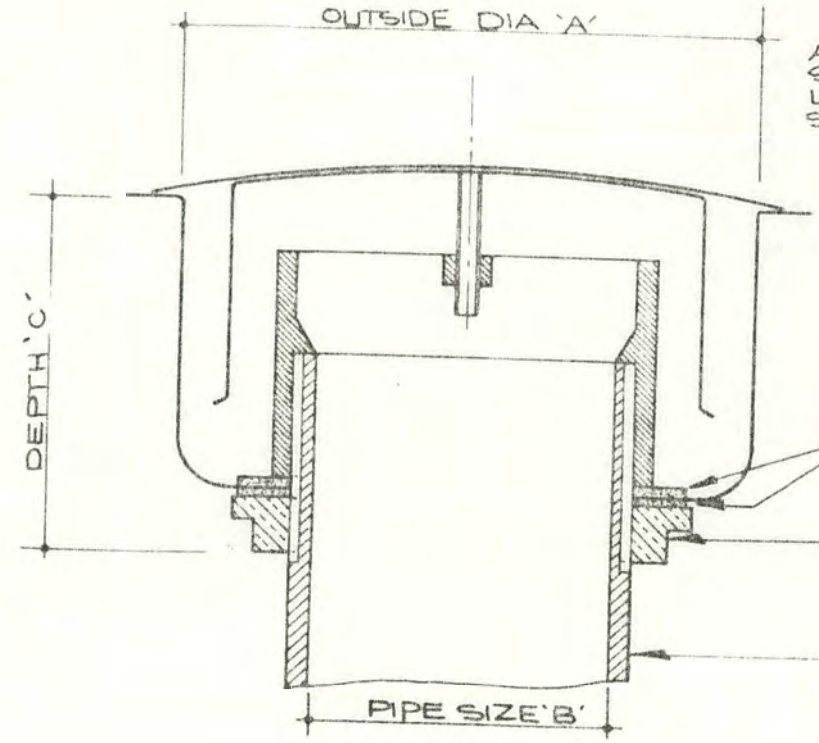


ELEVATION



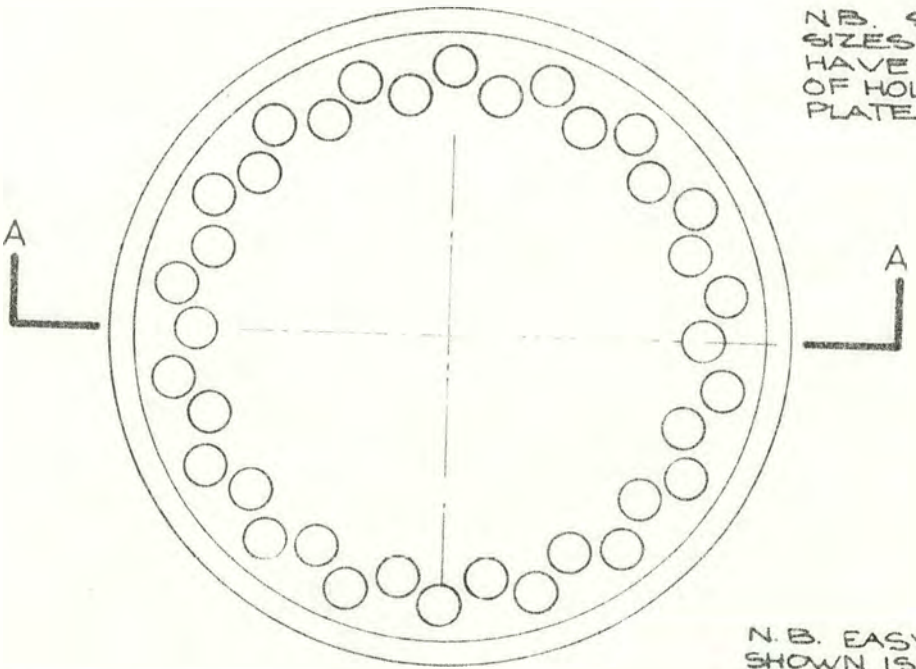
SECTION

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	LOG BOOK STAND	SCALE 1 : 20
		DATE MARCH 1980
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO / DRG NO SD30



SECTION AA

ALL MATERIALS STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.



PLAN

N.B. SMALLER SIZES OF TRAP MAY HAVE ONLY ONE ROW OF HOLES IN TOP PLATE

NOM SIZE	A	B	C
40	120	38	88
50	120	50	88
65	150	63	93
75	150	75	93

N.B. EASY CLEAN TRAP SHOWN IS NOMINAL SIZE 75mm DIA. OTHER SIZES AVAILABLE ARE 40, 50, 65, & 75

TRAP UNIT SHOWN IS AS MANUFACTURED BY METAL CRAFT INDS. LTD PALMERSTON NORTH

NZ PATENT Nº 117546

(GLND AGENT SILVER DOLPHIN IND. LTD)

T. H. JENKINS & ASSOCIATES
CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS

NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429

EASY CLEAN TRAP

TYPICAL DETAILS

SCALE 1:20

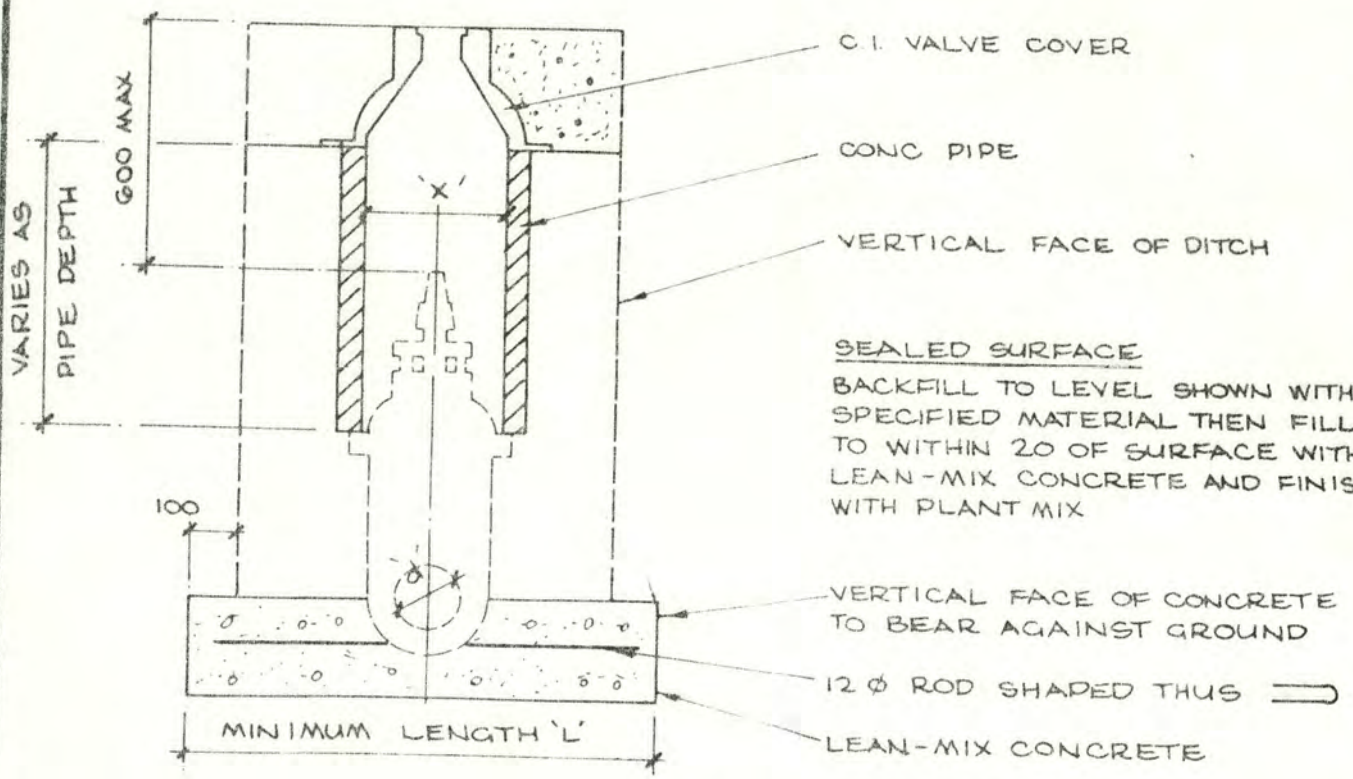
DATE 12-6-1979

APPROVED

PROJECT NO 6708

DRG NO F

A4



SECTION THRU MAIN

SEALED SURFACE

BACKFILL TO LEVEL SHOWN WITH SPECIFIED MATERIAL THEN FILL TO WITHIN 20 OF SURFACE WITH LEAN-MIX CONCRETE AND FINISH WITH PLANT MIX

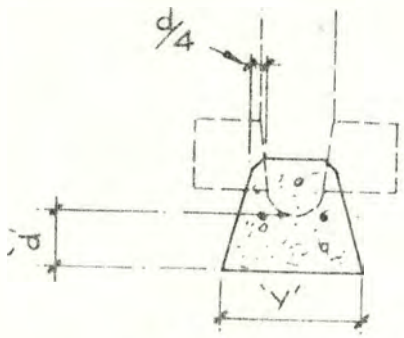
UNSEALED SURFACE

BACKFILL TO SURFACE WITH SPECIFIED BACKFILL AND RAM HARD

VALVE Ø	'X'	'Y'	'L'
100 Ø	225	200	600
150 Ø	300	250	600
200 Ø	222	300	750

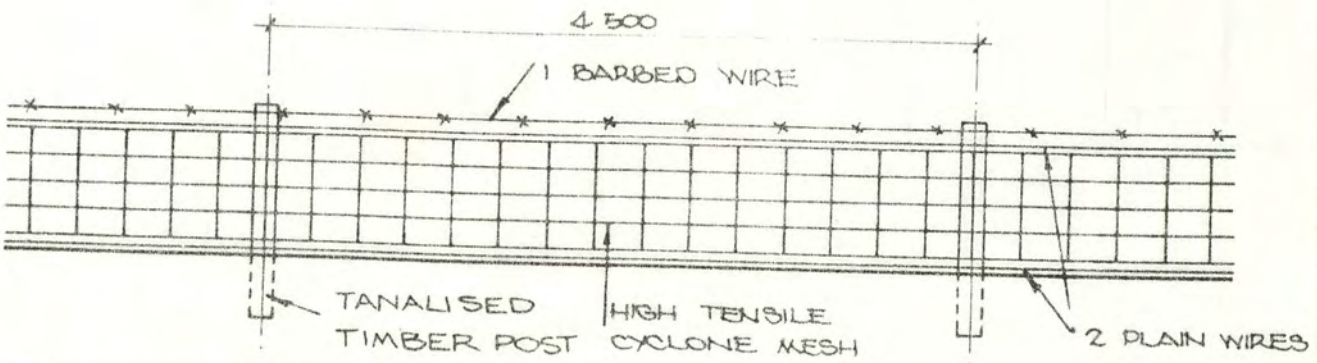
N.B

LEAN-MIX CONCRETE TO BE 10 AGG TO 1 CEMENT TO BE PLACED FAIRLY DRY AND RAMMED HARD



END ELEVATION

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	VALVE INSTALLATION	SCALE N.T.S. DATE MARCH '80 APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO G



CYCLONE FENCE

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD FARM FENCE	SCALE 1:50
		DATE FEB' 79
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO H

A4

NOTE.—No work is to be commenced until plans and specifications have been lodged as provided for in the Borough By-laws and until a Building Permit and other necessary Permits have been issued for the work, and ALL Fees duly paid.

(See Scale of Fees on Back.)

Application No. 4531
Received 18/6/80
Permit No. J86280
Issued 2/7/80.

Fees Payable: 98
Building Permit $~~158·00~~
Water Fee $:
Footpath Deposit $:
Channel Crossing $:
Building Research Levy $ 50 ~~118~~ :
TOTAL $~~276·00~~ 148

BOROUGH OF GORE

Building Application Form

To the BOROUGH ENGINEER.

I hereby apply for permission to erect, ~~repair, alter, add to, remove~~ a building at No. Wentworth St. Street, for G.B.C. (owner) of (address) according to locality plan and detailed plans, elevations, cross sections, and specifications of building deposited herewith in DUPLICATE

PARTICULARS OF LAND:

Lot No. ~~15~~
D.P. No.
Section No. 10
Block No. XXIV
Town or Survey District Gore
Frontage metres
Area
Valuation Roll Number 2976/30700

PARTICULARS OF BUILDINGS:

Foundations Concrete
Walls
Roof Iron
Area of Ground Floor sq. met. Bricks thds.
Area of Outbuildings sq. met. Concrete Ready Mix cub. metres
Channel Crossing Required Yes/No.

VALUE OF WORK

Building $ ~~117925·00~~ 50000 Building Only.
Plumbing & Drainage $:
Total $ ~~117925·00~~ 50000

This is: ~~Estimated~~ or Contract Price.

Proposed purpose for which every part of buildings is to be used or occupied (describing separately each part intended for use or occupation for a separate purpose)
NOTE: Signatures are required.

Water Treatment Plant Building.

This office is to be notified when foundations are excavated so they may be inspected before any concrete is poured.

Yours faithfully,

Owner G.C.C.
Builder Jones Corporation ANZ
Postal Address
Postal Address No 4 RD Gore Phone 6509.
Date 16th June 80

SPECIAL CONDITIONS:

For Office Use Only

Plans and Specifications checked and in order.
John MacDonald Building Inspector.
23.6.80 Date.
Health Inspector.
Date.

CHECKED FOR:—
By-Law Provisions:
Town Planning Ordinances:
Issue of Permit Approved: Date: 2/7/80

Fees Payable on the Issue of any Building Permit according to the Estimated Value of the Work

Estimated Value of Work	Fees
	$ c
Not exceeding $20	0.50
Over $20 and not exceeding $200	1.00
" $200 " " $400	2.00
" $400 " " $600	3.00
" $600 " " $800	4.00
" $800 " " $1,000	5.00
" $1,000 " " $1,200	6.00
" $1,200 " " $1,400	7.00
" $1,400 " " $1,600	8.00
" $1,600 " " $1,800	9.00
" $1,800 " " $2,000	10.00
" $2,000 " " $2,500	12.00
" $2,500 " " $3,000	14.00
" $3,000 " " $3,500	16.00
" $3,500 " " $4,000	18.00
" $4,000 " " $5,000	21.00
" $5,000 " " $6,000	24.00
" $6,000 " " $7,000	27.00
" $7,000 " " $8,000	30.00
" $8,000 " " $9,000	33.00
" $9,000 " " $10.000	36.00
" $10,000 " " $12,000	40.00
" $12,000 " " $14,000	44.00
" $14,000 " " $16,000	48.00
" $16,000 " " $18,000	52.00
" $18,000 " " $20,000	56.00
" $20,000 " " $25,000	64.00
" $25,000 " " $30,000	72.00
" $30,000 " " $35,000	80.00
" $35,000 " " $40,000	88.00
" $40,000 " " $50,000	98.00
" $50,000 " " $60,000	108.00
" $60,000 " " $70,000	118.00
" $70,000 " " $80,000	128.00
" $80,000 " " $90,000	138.00
" $90,000 " " $100,000	148.00
" $100,000 " " $120,000	158.00
" $120,000 " " $140,000	168.00
" $140,000 " " $160,000	178.00
" $160.000 " " $180,000	188.00
" $180,000 " " $200.000	198.00
" $200,000 " " $240,000	210 00
" $240,000 " " $280,000	220.00

For every $40,000 or part thereof in excess of $280,000 an additional fee of $10.00.

WATER FEES:	Sealed Roads	Gravel Roads
¾"	$100.00	$ 75.00
1"	$110.00	$ 85.00

Larger sizes - estimates of cost will be provided by the Borough Engineer.

Concrete 5c per cu metre. Bricks 20c per 1,000.

Channel Crossings (4 metres wide): New Drop Kerb Crossing in existing kerbs $20, New Drop Kerb Crossing $5, New Drop Kerb Crossing and path $50, Break out old path and kerb crossing and reconstruct $100, Form new slot crossing $40, form new slot crossing and reconstruct path $100.

Footpath and Channel Deposit - Minor Buildings $20, Residential $50, Commercial $100

Building Research Levy - 50c per $1,000 of total cost when greater than $3,000. (Note from 1/4/78 levy will be $1 per $1,000 when greater than $3,000)

Fees Payable for Special Duties

Nature of Duty	Fees
For inspection required in the case of proposed structural alteration before drawings and other documents are submitted for approval	$2.00
For inspecting old timber before reusing the same in a new building	$2.00
For any inspection that may be deemed necessary in connection with any building or work in respect of which no fee has otherwise been paid	$5.00
For searching drawings and other documents after completion of work	$0.50
For the inspection of a building for removal (and if such building so requiring to be inspected is situated outside of the Borough of Gore at the time of such inspection then in addition to the inspection fee a mileage fee of 15c per mile (both ways) calculated from the Gore Borough Council Offices to the site of such Inspection	$5.00

In any dispute the Engineer shall determine the value of the work in accordance with Clause 2:13.

Ind.

Date 2/7/80

Sec
~~Lot~~ 10 ~~D.P.~~ Blk XXIV Street Wentworth.

~~Lot~~ or GBC.

Builder Jones + Cooper Plumber NJ Fitzgerald.

Work Water Treatment Plant. Total Value $117925—

Area Floors Walls Roof

Permit No. Bldg. J056280 Pl. Dr. 261.

Footpath Deposit

Remarks

Inspections Date	Instructions to Builder
1.10.80	Footings in.
24.11.80.	Steel in lintels. Blk walls complete
8.1.81.	Roofed. Timber framing started.
27.3.81.	Blkd a closed in. Lining in hand.
1.5.81.	Carps. cleaning up. Painters 75%
2-6-81	Completed

Date of Final Inspection

Maximum Number of Occupants

Occupation Certificate No.

Inspector.

NECKLEN-MCDONALD

Date 3/7/80.

sec 10 Lot ~~D.P.~~ Blk XXIV Street Wentworth St.

(Water Treatment G.B.C.)

Owner GBC.

Builder Jones + Cooper Plumber MJ Fitzgerald.

Work New Labour Value $750-00

Permit No. Bldg Pl. Dr. 261

Remarks

Water tested Ok. Jm

10.4.81.

Date of Final Inspection

Inspector

NECKLEN-MCDONALD

PLICATE for Local
rity to return

Registration number 4675

Telephone 729-929
Ext. 531 or 972

Local Authority To Return To

Building Projects Authority
P.O. Box 12150
Wellington North

Application for Registration of Building Project

Name and address of owner:
GORE BOROUGH COUNCIL
ASHTON ST
GORE

1. Location of Building
WENTWORTH ST
GORE

(If form is to be returned to agent of applicant, complete address panel below)

2. Estimated start date: 1/6/1980

3. Estimated completion date: 31/12/1980

4. Name of Local Authority to issue permit:
GORE BOROUGH COUNCIL

5. Type of building (see list on reverse):
WATER TREATMENT STATION

If house, flat or garage, provide plans and state area:
170 square metres.

6. Estimated cost: $40,000

I certify that the particulars given herein are correct:

Signature: J D Fitzsimons

Name and address of agent of owner:
Gore Borough Council
Ashton Street
GORE.

FOR LOCAL AUTHORITY'S USE WHEN ISSUING PERMIT:

Permit number

Start date of project:

Completion date of project:

Estimated cost: $

Signature of officer issuing permit:

Designation:

Expiry date: ...../9/1980

Dear Sirs

The Economic Stabilisation (Building Registration and Construction) Regulations 1974

Registration number 4675

Pursuant to these regulations the issue of a building permit has been considered and is authorised immediately/~~deferred~~ to allow construction to commence in June (month) 1980 (year). If the building permit is not uplifted by the expiry date or construction is abandoned, this certificate shall lapse. Please quote registration number when making inquiries.

Yours faithfully,

~~P.G.~~ Walker
Building Projects Authority

PW. 753A (Rev. 11/74)

General instructions for completing application form

Please note that this registration form is in accordance with the procedures as laid down under the Economic Stabilisation (Building Registration and Construction) Regulations 1974 and subsequent amendments.

The regulations provide that, where the issue of a building permit has been deferred, this decision is subject to review.

Action for applicant

After completing the form BOTH copies must be forwarded to the Building Projects Authority for approval and processing. The Authority shall remove the Original copy and return the DUPLICATE copy to the applicant with his decision noted. This shall be presented to the local authority issuing the building permit, as evidence of the Building Projects Authority's consent. Please note that space is allowed for the name and address of your agent if this application is to be returned to him.

Action for local authority

The applicant for a building permit shall present this from to you at the time of applying for a permit; the Building Projects Authority has already retained the ORIGINAL.

Place the latest reported start and finish dates together with the latest estimated cost in the places provided; arrange for some authorising officer to sign below the figures. They must be identical to those on the permit form.

The permit is not to be issued if the allowable period (three months after permitted date) has elapsed. If this has happened the applicant must re-apply to the Building Projects Authority.

Return the tearoff section to the applicant as his record and return the top section to the Building Projects Authority at the end of the month of issue.

List of building types

House — single unit
House — with one or more attached flats
Flats and multiunit dwellings
Domestic garages and carports
Hostels, homes, barracks, nurses homes
Hotels, motels, guest houses and motor camps
Hospital and nursing homes
Education:
- Kindergartens and play centres
- Primary schools
- Secondary schools
- Technical Institutes
- Teachers colleges
- Universities
- Others

Social, cultural, recreational, and religious
- Art galleries
- Cultural centres
- Libraries
- Public Halls
- Churches
- Grandstands, stadiums
- Zoos

Shops, restuarants, taverns
Office, and administration
Warehouses, stores, wharf sheds
Factories, power houses, etc.
- Garages
- Workshops
- Vehicle shelters
- Fire stations

Farm working buildings
Other buildings
Other construction
Alterations
Additions

BOROUGH OF GORE

Application for Permit for Sanitary Plumbing or Drainage Work

Application No. 4531
Received 18/6/80
Permit No. 261
Issued 3/7/80.

Fees Payable:

Plumbing	$	24 : -
Drainage	$	:
Street Reinstat.	$	:
Sewer Con.	$	:
Storm Water Con.	$	:
Water Con.	$	:
TOTAL		24 -

TO THE BOROUGH ENGINEER,

I, the undersigned M.J. Fitzgerald. (Name in full) of Gore.

hereby apply for permission for the work described herein, and set out in the plans attached hereto, to be carried out in the premises situated in Talbot St. (Address in full.)

DESCRIPTION OF PROPERTY:

Lot No. X
D.P. No. X Block No. X
Section No. X Town or Survey District X Gore

Name and address of Person for whom work is to be carried out:
(Name) Gore Borough Council
(Address) Gore.

Name and address of Registered Plumber or other person entitled to do the work:
(Name) M.J. Fitzgerald.
(Address) 14 Culling Terrace Mataura.

DESCRIPTION OF WORK:

State if New Work or Repairs New
Sanitary Fittings to be installed WC, Shower, Basin, Sink,
Approximate Length of Drain 40 metres.
State if Street Opening No.
Is a Water Connection required, Yes/~~No~~. Yes
Value of Proposed Work (Labour Only)
Estimated Value of (a) Plumbing $ 500.
(b) Drainage $ 150:00.
TOTAL $ 750:00.

Signature M.J. Fitzgerald. (Registered Plumber/Drainlayer)

Dated this 16th day of June 1980

FOR OFFICE USE ONLY:

Health Inspector's Report

1. Application Approved for Issue of Permit.
2. Application Deferred.

Date 23.6.80 J.McMacRae for Health Inspector.

Date 2/7/80 [signature] Borough Engineer.

FEES PAYABLE ON THE ISSUE OF DRAINAGE PERMIT ACCORDING

TO THE ESTIMATED VALUE OF THE WORK

PLUMBING AND DRAINAGE	Value of Labour content of Work $1 - $200	$8.00	
	Value of Labour content of Work $210 - $400	$12.00	
	PLUS $6.00 for each $200 or part thereof of labour content in excess of $400.		
DRAINAGE CONNECTTIONS:	Separate stormwater and foul sewer connections	$75.00	each
	Combined Connection	$75.00	
STREET REINSTATEMENT:	Bitumen	$35.00	
	Gravel	$10.00	
WATER FEES:	¾"	$65.00	(Street Reinstatement not include
	1"	$75.00	
	Larger services - estimates of cost will be provided by the Borough Engineer		

FEES PAYABLE FOR SPECIAL DUTIES

Nature of Duty	Fees

GORE BOROUGH COUNCIL

Application No.: .....

Date: .....

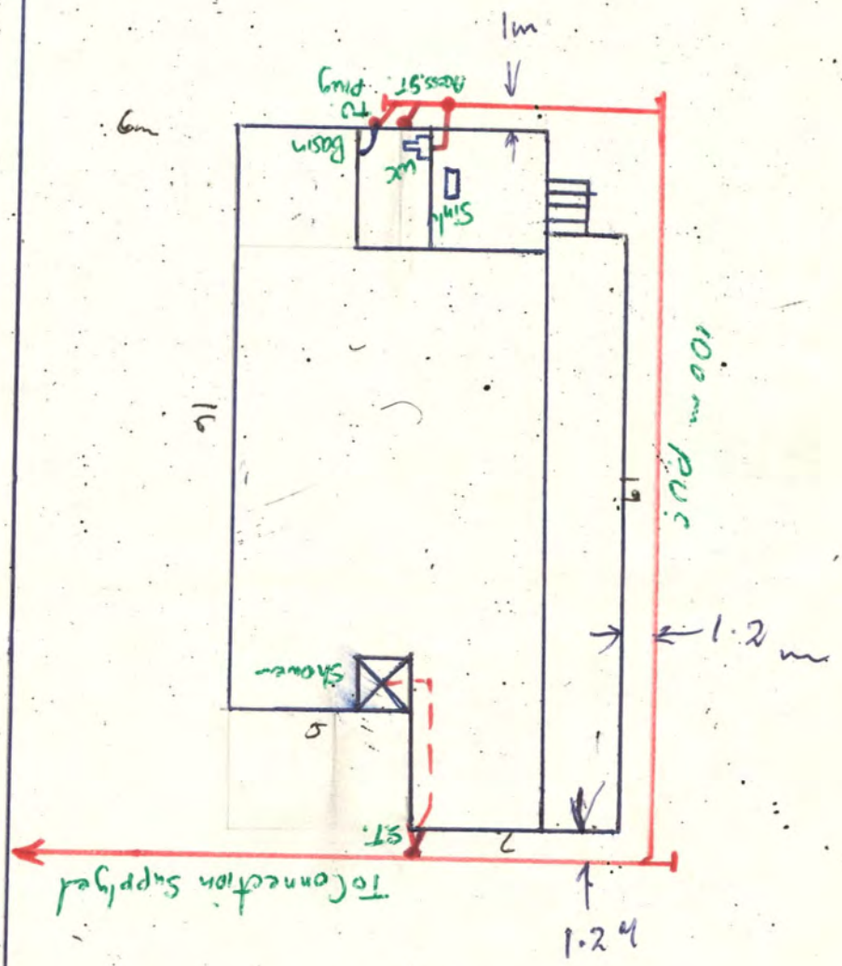
House Connection Plan-Drainage

All drawings must be correct to Scale, in INK, and show Compass direction, land boundaries and all necessary information.

Scale: ¼in. to 1ft. To be submitted in DUPLICATE.

REFERENCES—

AB Access Bend	FAI Fresh Air Inlet	MV Main Vent
AP Access Pipe	GA Grease Arrester	S Saddle
AY Access Y Junction	GT Gulley Trap	TV Terminal Vent
BV Back Vent	IC Inspection Chamber	WC Water Closet
DP Down-Pipe	New Stormwater Drains: DOTTED BLACK	Old Drains: FULL BLACK
New Sewer Drains: RED		



Name of Owner. Gore Borough Council Street... Talbot St.....

Lot or Section No..... Block No. .....

Signature of Drainer. M. J. Taylor

DRAINAGE CONNECTION SUMMARY

NAME OF DRAINLAYER _____

ADDRESS OF BUILDING _____

Main Sewer Connected Into

Depth of main sewer to top of barrel _____ metres

Internal dia of main _____ metres

Distance from street boundary to main _____ metres

Type of pipe used in main _____

SEWER CONNECTION

Internal dia of connection _____ metres

Type of pipe used _____

Distance from connection line to nearest side boundary at street boundary _____ metres

Depth of connection to top of barrel at street boundary _____ metres

Distance from side of building to drain line _____ metres

Drain tested _____ date _____

Health Inspector

3

Close 2 p.m.
Tuesday 29 April 80

SPECIFICATION

CONTRACT 6708

SPECIFICATION

for

WATER TREATMENT BUILDING AND RELATED WORK

for

GORE BOROUGH COUNCIL

T. H. JENKINS & ASSOCIATES
chartered consulting engineers
gala street - invercargill

SPECIFICATION

CONTRACT 6708

SPECIFICATION

for

WATER TREATMENT BUILDING AND RELATED WORK

for

GORE BOROUGH COUNCIL

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gala street - invercargill

WATER TREATMENT STATION BUILDINGS

GORE BOROUGH COUNCIL

MEMORANDUM TO TENDERERS No.1

3 April 1980

M1.1 Refer Clause 3.14 - Building Water Supply

Piping is to be to N.Z.S.S. 7602 Type 5, Class D, not as specified.

M1.2 Refer Clause 4.37

Allow to supply and install one 13mm bore 20 metre fire hose and reel which will be located to the Engineer's direction on site, on a wall below the cold water supply piping.

M1.3 Refer Clause 4.36

Allow to supply and install a pressure control valve for the hot water cylinder as the cold water mains pressure range will be from 700 to 1050 kPa.

M1.4 Refer Drawing 17

Reference to 38 diameter galvanised pipe is to be deleted for building water supply. Materials in Clause M1.1 to be used.

T. H. Jenkins & Associates
P.O. Box 93
INVERCARGILL

Dear Sirs

This letter acknowledges receipt of tender documents for Contract Number 6708 for Water Treatment Building and Related Work which are being loaned to us for the purpose of tendering.

We understand and accept that these plans are expensive to produce, are required for genuine tenderers and the making up of contract documents and other purposes immediately tenders have closed. We appreciate that if we do not tender, or do not return them further copies must be printed.

Therefore should they not be returned to you on or before the closing date for tenders for this work accompanied by a bona fide tender, you are authorised to charge us the sum of $70 and we undertake to pay you this amount whether or not the plans are subsequently returned.

Yours faithfully

Authorised agent of .....

Please sign and return this form. Note: Tenders will not be accepted unless this form is returned to the above address.

FOR OFFICE USE ONLY

Name .....

Firm .....

Postal address .....

The Mayor and Councillors
Gore Borough Council
P.O. Box 8
GORE

Dear Sir

TENDER FOR CONTRACT P.6708 Water Treatment Building

Having examined the Drawings, General and Special Conditions of Contract, Specification, the Schedules where applicable, and the site, for the construction of the above-named works, we offer to supply, construct, complete and maintain the whole of the said Works in conformity with the said Drawings, Conditions of Contract, Specification, and Schedules, for the sum of: .....($.....
or such other sum as may be ascertained in accordance with the said Conditions.

We undertake to complete and deliver the whole of the Works comprised in the Contract within the time stated below.

If our Tender is accepted we will, if required, provide two good and sufficient sureties, or obtain the guarantee of a Bank or Insurance Company (to be approved in either case by you), to be jointly and severally bound with us in a sum equal to ten percent of the above-named sum for the due performance of the Contract under the terms of a Bond in the form annexed to the General Conditions of Contract.

Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.

We enclose with our Tender our deposit cheque for:
.....($.....)

The names of our Sureties are: .....
The date for completion of the work is: .....
Our service percentage on the P.C. Sum is: .....
Our Insurance Company is: .....

Our trade summary schedule of prices is attached.

Our list of subcontractors is attached.

Yours faithfully

Signature: .....

Address for Service:.....

.....

Date: .....

The Mayor and Councillors
Gore Borough Council
P.O. Box 8
GORE

Dear Sir

TENDER FOR CONTRACT P.6708 Water Treatment Building

Having examined the Drawings, General and Special Conditions of Contract, Specification, the Schedules where applicable, and the site, for the construction of the above-named works, we offer to supply, construct, complete and maintain the whole of the said Works in conformity with the said Drawings, Conditions of Contract, Specification, and Schedules, for the sum of: .....($.....)
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We undertake to complete and deliver the whole of the Works comprised in the Contract within the time stated below.

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Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.

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The names of our Sureties are: .....
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Our service percentage on the P.C. Sum is: .....
Our Insurance Company is: .....

Our trade summary schedule of prices is attached.

Our list of subcontractors is attached.

Yours faithfully

Signature: .....

Address for Service:.....

.....

Date: .....

List of Contents Page No.

List of Contents Page No.

List of Contents Page No.

List of Contents Page No.

SPECIAL CONDITIONS OF CONTRACT

for

WATER TREATMENT BUILDING AND RELATED WORK

for

GORE BOROUGH COUNCIL

1. GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract shall be N.Z.S. 623:1964, "Conditions of Contract for Building and Civil Engineering Work". This document, together with the Special Conditions of Contract given hereunder form part of the Contract Documents.

2. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract modify or extend the General Conditions of Contract. Chapter references refer to N.Z.S. 623:1964.

Part 1 - Definitions

1.1 "Principal" means Gore Borough Council

"Engineer" means the authorised representative of T. H. Jenkins & Associates, Consulting Engineers, Norden Chambers, 55-59 Gala Street, Invercargill

"Week" means a period of seven consecutive days.

Part 2 - Tenders

New Clause - Tender Documents

(a) Tender documents are issued on the condition that they shall be returned to the Engineer in good order on or before the tender closing date accompanied by a bona-fide tender. If any documents are not so returned, the person to whom they were issued shall forthwith pay a printing cost of $70 to the Engineer.

(b) A full set of tender documents will be available for viewing at the office of the Engineer and subcontractors may purchase portions of the documents on payment of printing charges as set out in Special Conditions Clause 5.2.

Part 2 - Tenders

2.1.1 Submission of Tenders

Tenders marked "TENDER FOR WATER TREATMENT BUILDING" shall reach the Office of Town Clerk Gore Borough Council P.O. Box 8 Gore not later than 2 p.m. Tuesday 29 April 1980.

2.1.5 Lump Sum Contract

The Tender shall be for a Lump Sum for the supply, construction, demolition, alteration, erection and completion of the whole of the work described, specified or implied on the accompanying Plans, in the Specification or in the General and Special Conditions of Contract.

2.1.6. Schedule of Prices

Each tenderer shall submit with his tender a complete trade summary schedule of prices showing how the lump sum has been arrived at.

2.3.1. Deposit with Tender

Each Tender shall be accompanied by cash, or by a cheque, or by a Post Office Money Order in New Zealand currency, for $500. A cheque or Post Office Money Order in New Zealand currency shall be drawn in favour of Gore Borough Council.

Part 3 - Bonds and Sureties

3.1 Sureties

The Tenderer shall submit the name of a recognised Bank or Insurance Company who will join with him in a Bond for the due performance of the Contract. The Bond shall be executed for ten percent of the Contract Price. The Tenderer shall state in his Tender the name of the surety.

Part 5 - Contract Documents

5.2 Supply of Drawings and Specifications

The Principal shall supply to the Contractor free of charge:

(a) One set of contract documents.

(b) Two sets of drawings and specifications for building permit application purposes.

(c) Three sets of drawings and specifications for construction purposes.

Additional copies may be obtained from the Engineer on payment of the following printing charges.

Set of drawings	..	$50
Specification ..	..	$20
Individual prints	..	$2.50
Specification pages	..	$0.25

Part 6 - Engineer's Representatives

6.1.4. The Engineer's Representative or any Supervising Officer will in no case act on behalf of, or perform duties for the Contractor, nor interfere with the management of the works by the latter. Any advice which the Engineer's Representative or other Supervising Officers may give the Contractor or his Foreman shall in no way be construed as binding on the Principal in any way, nor as releasing the Contractor from fulfilling the terms of his Contract.

Part 7 - Assignment and Sub-Letting

7.2 Sub-letting

Delete this clause and substitute the following.

7.2 The Contractor shall not sub-let the whole of the works.

7.2.1 Except where otherwise provided by the Contract, the Contractor shall not sub-let any part of the works without the written consent of the Engineer and such consent, if given, shall not relieve the Contractor from any liability or obligation under the Contract, nor from active superintendence of the work during progress, and the Contractor shall be responsible for the acts, defaults and neglects of any Sub-Contractor, his agents, servants, or workmen, as fully as if they were the acts, defaults, or neglects of the Contractor, his agents, servants or workmen.

7.2.2. The consent of the Engineer to any sub-letting may be given upon such terms and conditions as the Engineer deems fit.

7.2.3. The Contractor shall not sub-let any part or parts of the Works to a Sub-Contractor who does not agree to be bound to the Contractor by the like obligation in respect of the subject matter of the Sub-Contract, as the Contractor assumes under this Contract. Without in any way limiting the generality of the foregoing, the Contractor shall ensure that any Sub-Contract contains adequate terms and conditions, providing for:

(i) Insurance by the Sub-Contractor.

(ii) Indemnity by the Sub-Contractor against losses caused by any delay, negligence or fault on his part.

(iii) The granting by the Sub-Contractor to the Engineer or his authorised agent of right of access for the purpose of inspection.

(iv) Acceptance by the Sub-Contractor of the directions and decisions of the Engineer.

(v) Acceptance by the Sub-Contractor of approval by the Engineer of work done by him as a condition precedent to payment of the Sub-Contractor by the Contractor, or the Principal.

(vi) The keeping by the Sub-Contractor, if work covered by a provisional sum is being executed by him on a cost-plus basis, of records and books of account, and the supplying of cost data showing the actual cost of all items of labour, materials, equipment, supplies and other expenses of any nature which constitute the cost of the work to be performed under the Sub-Contract.

(vii) The right of the Contractor, in the event of the cancellation of this Contract during the currency of any Sub-Contract, and at the request in writing of the Principal, but not otherwise, to assign to the Principal the Contractor's rights and obligations under such Sub-Contract.

7.2.4 It shall be a condition precedent to any sub-letting that the Engineer shall peruse and approve the terms and conditions of the Sub-Contract.

7.2.5. Any direction or instructions of the Engineer affecting any Sub-Contract or work being carried out thereunder, shall in normal circumstances be given by the Engineer to the Contractor and transmitted by the Contractor without delay to the Sub-Contractor.

7.2.6. In the event of any Sub-Contractor having undertaken towards the Contractor in respect of the work executed, or of the goods or materials supplied by such Sub-Contractor, any continuing obligation extending beyond the maintenance period, or beyond the date of any earlier termination of the Contractor's liability in respect of such work, goods or materials, the Contractor shall, at the request of the Engineer, assign to the Principal the benefit of such obligation for the unexpired duration thereof.

7.2.7 Nothing contained in this Contract, nor in any Sub-Contract shall be deemed to create any contractural relation between any Sub-Contractor and the Principal, except as may be created under Clause 7.2.3 (vii), or under Clause 7.2.6.

Part 8 - General Obligations

8.7 Engineer's Directions

The Engineer shall make periodic observations of the works to ascertain that such works as can be visually observed are being carried out generally in accordance with

the drawings, specifications and authorised variations and to ascertain the progress being made for the purposes of progress payments and the works programme.

The Engineer shall have authority to interpret or amplify the documents and such interpretation or amplification consistent with the general intent of the contract shall not be considered to be variations.

Nothing done by the Engineer in the way of approval, lack of comment or other exercise of his authority however expressed shall relieve the Contractor of his responsibility to instruct and maintain the works in strict accordance with the requirements of the drawings and specifications or of any of his other duties or obligations under the contract.

The Contractor shall be responsible for making good any subsequent effects of any alterations made by the Contractor whether or not the Engineer's approval is initially given.

8.18 - Permits and Fees

Time delays in the issuing of permits by local authorities shall not be grounds for any claims other than claims for extension of time.

Part 9 - Indemnity and Insurance

The Contractor shall effect the following Insurances:

9.3 Workers' Compensation Insurance is not required.

9.4 Public Liability Insurance in the joint names of the Principal and the Contractor shall be to the value of at least $150.000 for any one claim.

9.5 Fire insurance shall be covered by an All Risks policy and specific Fire Insurance shall not be required.

9.6 Contractor's All Risks Insurance in the joint names of the Principal and the Contractor shall be required. This shall include cover in respect of Engineer's re-design fees, costs of demolition and the removal of debris and Engineer's fees on demolition.

Policies shall fully cover the maintenance period and shall not be lapsed without the specific approval of the Engineer.

Evidence of the existence of the Policies specified above will be required.

Part 11 - Commencement Time and Delays

11.3 Completion Date

The date for completion of the whole of the works in this Contract shall be stated by tenderers

11.6.1 Liquidated Damages

The Contractor shall pay to the Principal the sum of $250 per week for every week that the completion of the Contract is delayed.

Part 12 - Maintenance and Defect

12.1 The Contractor shall maintain the whole of the works for a period of three months from the date of the Engineer's certification of substantial completion.

Part 15 - Measurement

Delete this clause.

Part 16 - Provisional and Prime Cost Sums

16.1.1 Provisional Sums

16.2 Prime Cost Sums

Tenderers shall allow separately for any profit or service charge on Provisional Sums and Prime Cost Sums, and this amount expressed as a percentage shall be stated in the Tender.

Tenderers shall allow Provisional and Prime Cost Sums as set out in the Specification. Payment from these Sums will be made only to the extent specifically authorised in writing by the Engineer.

16.3 Contingency Sum

The Contractor shall allow in the tendered Contract Price, for contingencies, the sum of $10,000 (ten thousand dollars) Payment of this sum shall be made only to the extent specifically authorised in writing by the Engineer.

Part 17 - Certificates and Payments

17.2.2 Delete the last sentence and substitute the following:

"This sum shall be subject to a retention of ten percent, which will include the retention required by Clause 17.1.1"

17.2.2(i) Add the words:

~~"as determined by the~~ Engineer"

17.3.1 Claims for advances on construction plant of up to forty percent of its value will be considered by the Engineer, provided that the total claim does not exceed ten percent of the Contract Price. Any advance on construction plant will be subject to final approval of the Principal.

P.6708

SPECIFICATION

for

Water Treatment Building

for

Gore Borough Council

SECTION 1 - GENERAL

1.1 Location

The work involved in this Contract is located between Wentworth and Talbot Streets in East Gore as is shown on the locality plan.

1.2 Extent of Contract

This Contract generally includes:

(a) The levelling of the treatment station site, the relocation and extension of security fencing, and the demolition of existing pumphouse and tanks.

(b) The grading, kerb and channel, sealing and fencing of the access road and yard and the landscaping of the Reservoir/ Treatment area as shown.

(c) The construction of the treatment station building in reinforced concrete, reinforced masonry and timber including joinery, built-in furniture, steel rails steps, etc, plumbing and drainage , painting and finishing.

(d) The supply and installation of asbestos cement, steel and cast iron pipework and specials below ground on the reservoir/treatment station site including two straight runs within the treatment station building as shown.

(e) All other work indicated, described or implied on the Drawings, in this Specification, and its appendices, or in the Special and General Conditions of Contract.

The contract does not include the supply and installation of treatment equipment or specialised electrical and control gear, and it also does not include building electrical work.

1.3 Drawings

The Drawings which refer to the various items of work included under Clause 2 are numbered 6708 in 20 sheets.

1.4 Information with Tender

The tender shall include the following information:

(a) List of Subcontractors.

(b) Service percentage on P.C. Sums.

(c) Schedule of Prices.

(d) Name of Insurance Company.

(e) Name of Surety

1.5 Examination of Site

The Contractor is expected to visit the site and familiarise himself with the conditions to ascertain the nature of the work and the extent of the work, and any other matter or thing which may influence the carrying out of the work in its entirety. No claims for extra payment will be considered which may arise from the Contractor's omission of this requirement.

1.6 Construction Programme

The Contractor shall supply to the Engineer, prior to the commencement of the work, a complete Construction Programme stating at what date he expects to complete various phases of the work in order to have the whole job completed by the stipulated Completion Date. The Contractor will be expected to adhere to this Construction Programme. Where this does not occur, the Contractor shall notify the Engineer of the reasons, and what steps he has taken to ensure that the work will be completed on time.

1.7 Materials and Workmanship

Where not specifically described elsewhere in this Specification, materials shall be the best of their respective kinds available on the current market, and all work shall be carried out in accordance with the best trade practice, and in accordance with relevant New Zealand Standards.

1.8 Protection of Materials and Works

All materials used or to be used in the works shall be effectively protected by the Contractor from damage, and any damage occurring from any cause whatsoever shall be made good by him. All excavations, holes, etc., shall be properly railed off, boarded over, and lighted at night, or otherwise guarded as a protection against accidents.

1.9 Permits and Fees

The Contractor shall be responsible for the obtaining of all Permits and for the payment of all Fees to Local Authorities, as required by Clause 8.18 of the General Conditions of Contract. The Engineer will supply Form of

Registration and Approval from the Building Project Registration Authority if required.

Any conditions or requirements placed on permits by local authorities shall be immediately passed to the Engineer in writing.

1.10 Temporary Power and Water Supply

The Contractor shall be responsible for the supply of temporary electric power and water that he may require. He shall make arrangements with the appropriate Local Authorities, or the Principal, and shall pay all Fees and charges.

1.11 Standard Specifications

N.Z.S. 1900, N.Z.S. 3631 and other Standards called on throughout this Specification may be viewed at the Office of the Engineer. All Standards, Codes and Regulations called upon throughout this Specification shall be deemed to include all such revisions and amendments thereto as are currently in force.

1.12 Setting Out

The exact position of the works will be established by the Engineer by means of a workpoint, a level datum, and an alignment in one direction. Thereafter the Contractor shall be responsible for the setting out of all lines and levels. The Contractor may call on the Engineer for services in connection with detailed set-out, in which case the Engineer shall charge fees as laid down by the New Zealand Institution of Engineers.

1.13 Alternatives and Equivalents

Where any item is mentioned by a trade name, or by other specific reference, it shall be deemed to mean the material or article so mentioned, or any other approved by the Engineer as equal thereto in price, quality, finish and durability, and equally serviceable for the purpose intended.

1.14 Approval

Approval of alternative, processes or conditions wherever specified will be exercised by the Engineer. The Contractor should ensure that adequate notice is given wherever approval is required. Any work or material requiring approval, which is covered up or installed without approval may be ordered to be uncovered or removed for approval, or may require monetary retentions for sufficient time to prove sufficiency.

Refer also to Special Conditions of Contract Clause 8.7 regarding Engineer's approvals.

1.15 Work Shown and Included

The tender documents show both generally, and specifically where necessary, the extent of the work included in this contract. It is not intended nor is it practical, that every minor detail or individual item required to complete the contract is included. Tenderers are expected to be experienced in the type of work for which they are tendering, and to take this fact into account when pricing work. If any material or work is inadequately described, specified, or omitted, yet be necessary for the proper and satisfactory completion of the whole contract then the tenderer shall allow for these items in his tenderer, significantly affects his tender price, then he shall state in writing in his letter of tender what he has allowed for.

1.16 Division of Drawings and Specifications

For convenience the specification and certain of the drawings are arranged generally in sections, but such divisions shall not be considered to limit the work required by a subcontractor or trade. Sections are arranged to cover generally subjects rather than trade.

All subcontractors shall view the documents as a whole to determine the extent of work required and as normal, it shall be the main contractor's responsibility to ensure that all items are covered.

1.17 Dimensions and Fit

In all cases figured dimensions shall be used in preference to scaling. It is the contractor's responsibility to ensure that new work fits with any existing work or components and also to ensure that all parts of the work fit and are compatible with each other. Any ambiguities should be immediately referred to the Engineer for his interpretation.

1.18 Construction Documents

No work shall be carried out from any documents other than those stamped "Approved for Construction", and signed by the Engineer to the Contract. No claims for extras shall be recognised resulting from the Contractor's failure to observe this requirement.

1.19 Co-operation with Other Contractors

Co-operate with other contractors who may be on the site during the course of this contract and also with Gore Borough Council staff who will be operating the current temporary scheme. The Contractor should not however take instructions from

Gore Borough staff and variations made on this basis alone will not be paid for.

SECTION 2 - EXCAVATION AND FILLING

2.1 Scope

This section of the specification covers the subject of siteworks as distinct from pipework and drainlaying to be done both prior to the construction of the building and after its completion. It is not intended however to limit the work required by any trade - refer clauses 1.16 and 1.15.

2.2 Fence Removal

Remove sections of security fence to be re-aligned taking care not to damage components and materials. Stockpile on site for later re-erection.

2.3 Site Clearing

Remove all vegetation, top-soil, organic material and rubbish from the area to be occupied by building, yard and roadway and the area to be covered by fill batters, stockpiling on site as directed.

2.4 Site Levelling

Level the treatment station site and yard to RL 119 as shown. Build out corner of site for filter installation access and compact thoroughly to the approval of the engineer, Stockpile remainder of weathered rock material on site in existing stockpile just outside security fence gate.

2.5 Foundation Excavation and Preparation

Thoroughly compact exposed subgrade, and excavate for foundation pads and beams to key a minimum of 100mm into subgrade. Subgrade beneath shall be capable of withstanding a sustained bearing pressure of 100 kPa as determined by the Engineer. If the subgrade at the required level cannot

withstand such a pressure, excavate to solid material and back-fill with approved granular fill. Any such additional excavations authorised by the Engineer shall be considered an extra.

Secure and maintain the sides of all excavations, and keep them free of water and fallen material.

2.6 Engineer's Approval

Prior to the spreading of hardcore, or the pouring of concrete, the Engineer's approval of foundation conditions and fill compaction shall be obtained. It shall be the Contractor's responsibility to notify the Engineer at least twenty-four hours in advance of when inspection will be required. The approval of the Engineer shall not relieve the Contractor of any of his responsibilities under the Contract.

2.7 Fill Beneath Building Slabs

After the pouring of foundation walls as shown, supply and place a well graded sand to cavities compacting by watering and vibrating to the approval of the Engineer. Fill material must be approved by the Engineer prior to commencing this work.

2.8 Back-Filling

Immediately after the stripping of boxing, all over-width excavation shall be back-filled and well rammed to the satisfaction of the Engineer.

2.9 Kerb and Channel

Build basecourse platforms or excavate as required to set accurate lines and grades and pour kerb and channel and kerbs to the details shown in the appendices to this specification. Joint at 5M intervals and cure for a minimum of seven days.

2.10 Sumps

Form sumps to the standard details shown in the appendices to this specification at low points as shown on the drawings. At low sump by reservoir, build end cut off wall with overhang to kerb and channel to stop water and positively direct it into the sump.

2.11 Access Road

Clear sides of access road, form water tables as shown and grade longitudinally and in cross-section to the approval of the Engineer.

2.12 Basecourse

Supply crushed basecourse to the grading and other requirements of NRB Standard specification M/4 to a nominal thickness of 150mm within site and 100mm to access road. Place to access road and yard, grade to kerbs and sumps as shown and compact to leave a stone mosaic suitable for sealing

2.13 Sealing

Apply a first coat between seal in accordance with NRB B/3 using Grade 3 chips to NRB M/6

2.14 Security Fence

Re-erect dismantled security fence to new alignments as shown and supply and erect additional security fence as required to the details shown on the drawings.

2.15 Stock Fence and Gates

Supply and erect stock fencing to the details shown in the appendices to this specification on both sides of the access road from Wentworth Street to the reservoir security fence. Allow for four standard cyclone farm gates to be installed where directed on site.

2.16 Landscaping

Spread topsoil from stockpile to areas to be landscaped as shown and supply additional topsoil as necessary to give a minimum depth of 100mm throughout.

Level and rake to the approval of the Engineer leaving in a condition suitable for sowing and landscaping.

Allow a PC sum of $500 for sowing and planting by nominated subcontractor.

SECTION THREE - PIPE-WORK

3.1 Scope

This section of the specification generally covers the subject of pipework. It does not however limit the work required by any trade-refer to Clause 1.16 and 1.15.

Water reticulation and fittings within the pumphouse building and foul sewer drainage are covered under Specification Section Four - Building.

3.2 Asbestos Cement Pressure Pipes

300 diameter and 100 diameter asbestos cement pressure pipes shall comply with the requirements of NZS 285. Class C. Joints to be "Supertite" with rubber rings to NZS 1311. Joints to cast iron specials to be Gibault.

3.3 Asbestos Cement Sewer Pipes and Fittings

200 diameter asbestos cement sewer pipes should comply with the requirements of NZS 1573. Joints to be "Supertite" type incorporating rubber rings to NZS 1311.

Bends and fittings shall be of asbestos cement to NZS 1573 or of an approved alternative.

3.4 Cast Iron Fittings and Pipe

The Contractor shall allow to supply all required cast iron fittings and cast iron pipe. Pipe and fittings shall be of Class C pressure rating to the requirements of N.Z.S. 1235 "Cast Iron Flanged Pipes and Fittings" with flanges where applicable to Table E of N.Z.S. 8. Special castings shall comply with N.Z.S. 286 (B.S.S. 78) or the A.I.S. Specification.

Pipes and specials shall be marked with the mark of the N.Z. or British Standards Institution or with a mark showing they have passed the A.I.S. Specification test.

All necessary rubber rings, bolts and jointing material for joints shall be supplied with the fittings.

3.5 Existing Underground Services

Existing foul sewers, stormwater sewers, water pipes, cables and other underground services and structures shown on the plans are for the information of the Contractor but their positions and completeness are not guaranteed.

It shall be the Contractor's responsibility to ascertain the existence and location of all underground services and to take all steps to prevent damage to any such cables, ducts, pipes or structures. Full information is available from the Gore Borough Council Engineering Department in respect of Gore Borough Services.

Any damage caused to any existing services during the Contract shall be repaired at the expense of the Contractor.

Where it is found that the exact levels or location of any existing services are not known, the Contractor shall hand excavate to accurately locate existing pipes and services in these locations prior to pipelaying operations coming within 100 metres of these points so that pipelines gradients can be adjusted if necessary.

3.6 Adjustments to Alignment and Levels

The Contractor will be expected to make minor alterations to the alignment and level of the pipelines when so instructed by the Engineer at no extra cost. Any major variations will be negotiated based on schedule rates if encountered.

3.7 Standard Specification N.Z.S. 4452

All excavation, bedding, laying, joiting, backfilling etc. shall be in accordance with the appropriate sections of N.Z.S. 4452: 1974 "Specification for Construction of Underground Pipe Sewers and Drains" except where specifically stated otherwise in this Specification.

Specific Contract requirements shall be as follows:

(a) Trench width (N.Z.S. 4452 - Clause 6.2) - Width B in Appendix E not to exceed D + 600 mm.

(b) Bedding type (N.Z.S. 4452 - Clause 7.2) Appendix E to N.Z.S. 4452 is shown as Appendix A1 to this Specification.

(i) To berm and field areas - Type B (Granular bedding)
(ii) To all roadway and driveway areas - Type S (Full granular backfill)

(c) Setting Out (N.Z.S. 4452 - Part 8). As an alternative, setting out may be by an approved method using a laser.

(d) Hydrostatic Testing (N.Z.S. 4452 - Part II) See Clause 3.15 of this Specification

3.8 Rock Excavation

In cases where rock is encountered requiring blasting an extra payment will be made for excavation. Rock is defined as solid material, unfractured having a hardness of three or more in the Mohr scale of hardness and includes boulders of more than half a cubic yard in volume. The Contractor shall supply to the Engineer the average number of linear feet of rock removed per pound of blasting material.

Tenderers should note that it is not expected that the weathered rock subsoil in the site area will require blasting. A special "weathered rock" excavation rate is defined here, and should be allowed for, for all buried pipework.

3.9 Anchor - Thrust Blocks

All bends, plugs and valves shall be securely anchored by concrete blocks against movement. The blocks shall consist of low grade concrete to be placed between solid ground and the fitting to anchored, and shall be of the following sizes at contact with the trench wall:

Fitting	Block Bearing Area	
	300 Diam Pressure Line	200 Diam Sewer
90^0 bend	1000 x 1000	250 x 250
$67\frac{1}{2}^0$ bend	850 x 850	200 x 200
45^0 bend	700 x 700	160 x 160
$22\frac{1}{2}^0$ bend	500 x 500	120 x 120
100 Branch Tee	300 x 300	100 x 100
75 Branch Tee	250 x 250	100 x 100

Concrete blocks shall be placed so as not to interfere with pipe joints and leave them accessible for repair.

Before commencing concreting the trench bottom shall be free from debris and water and when ordered by the Engineer, a sheet of galvanised iron 24 s.w. guage on Sisalkraft shall be placed in the trench bottom before placing concrete.

The cost of constructing anchor blocks shall be included in the unit rate for the complete installation of bends, plugs and valves.

3.10 Air Valve

Re-locate existing Blakeborough 2633 75mm air valve and hydrant tee as shown and service and clean as required to stop leaks.

3.11 Sluice Valves

Supply and install 300 diameter and 100 diameter sluice valves to the requirements of NZS 784 for class 1 valves. Install 300 diameter valve on plinth in filter room as shown and install 100 diameter valve in standard valve box to the details shown in the appendices to this specification.

3.12 Non - Return Valves

Supply and install 200 diameter and 100 diameter swing check valves to BS 4090 - Gillies Fig 3042G or approved equivalent. Install with concrete pipe to ground to leave access to cover plate and cap with suitable galvanised steel or precast top.

3.13 Stormwater Connections

The contract includes the connection of building down-pipes and yard sumps to the new backwash drain as shown. Run in PVC or glazed earthenware and connect to drain via asbestos cement Y to NZS 1573.

3.14 Building Water Supply

Run 38 diameter Class C alkathene from toby box at pumping chamber location to building as shown.

Class D Pipe Type. 7602

3.15 Hydrostatic Testing

All sections of the work shall be hydrostatically tested in the presence of the Engineer and the Borough Engineer or his representative. It is intended that sections should be tested prior to backfilling with each individual pipe anchored by backfill between joints only. However, the Contractor may elect to complete backfilling prior to testing at his discretion in which case uncovering shall then be carried out as necessary to locate and repair all leaks.

Final acceptance testing shall be carried out after all backfilling is completed immediately prior to final end connection.

Ends shall be securely strutted and the line slowly filled with water from the lower end taking care to expell all air. The line shall then be maintained filled with water for an absorption period of 24 hours.

The pressure shall then be slowly raised to the following pressures at the lowest points:

Rising Main	1.35 MPa (140 metres head)
Delivery Main	1.35 MPa (140 metres head)
Scour Main	60 KPa (6 metres head)

The acceptance limit shall be a water loss not exceeding the following:

Rising and Delivery Main ..	10 litres per km per hour
Scour Main	20 litres per km per hour

3.16 End Connections

The contract initially includes the connection of the new mains to the existing rising main and to the reservoir inlet main as shown. However this operation should be left until the end of the contract and the Principal reserves the right to delete this work from the contract.

The contract also includes the connection of the new backwash drain and the sump SW drain to the existing reservoir scour line as shown. The existing main should be excavated at this point to determine exact requirements prior to ordering any specials.

3.17 Surfaces Reinstatement

All disturbed surfaces shall be reinstated to at least their existing condition prior to site and landscaping works commencing.

3.18 Flushing and Sterilising

On completion of testing, repairs and backfilling, all pipework shall be thoroughly flushed at flow rates giving velocities in excess of 800 mm per second. The mains shall then be drained and slowly filled with pure water containing 50 p.p.m. of free chlorine. Leave for 24 hours after which time the residual must not be less than 10 p.p.m. If it is less, repeat the sterilisation.

SECTION FOUR - BUILDING

4.1 Scope

This section of the specification generally covers the subject of the building work. It does not however limit the work required by any trade - refer to Clauses 1.16 and 1.15.

4.2 Demolition

Consult with the Engineer and with Gore Borough staff regarding timing of demolition of existing pumphouse, and tanks and afford access to Borough staff removing pump, and fittings.

Demolish building and tanks, removing all rubbish and debris from the site. Recovered materials shall remain the property of the Gore Borough Council who shall direct as to their disposal or storage location.

4.3 Reinforcing

Reinforcing shall be deformed bars to the requirements of N.Z.S. 3402P: 1973 Grade 275 steel, except that stirrups and column ties may be of plain bars.

Reinforcing shall be bent to the minimum radii set out in NZS. 1900: Chapter 9.3A, Table 10 and, where required, standard hooks as defined in N.Z.S. 1900: Chapter 9.3A shall be formed.

Reinforcing delivered to the site must be kept off the ground and, at the time of concreting, bars shall be free of dirt, oil, loose mill scale and rust.

Reinforcing shall be held securely in place prior to concreting, and all intersections and laps shall be tied with annealed soft iron wire.

4.4 Concrete Standard Specification

N.Z.S. 1900: Chapter 9.3A, 1970 "Concrete" and all Standard Specifications referred to therein shall be read with, and form part of, this Specification. Except where otherwise specified herein, all concrete work and finishing shall be in accordance with this Standard Specification.

4.5 Tolerance on Dimensions

All shown dimensions of the concrete shall be established accurately within one of the following sets of tolerances:

	Dimensions less than 1 m	Dimensions 1 m to 15 m	Dimensions greater than 15 m
Below Ground	6 mm	12 mm	25 mm
Above Ground	3 mm	6 mm	12 mm

In addition to the foregoing, the standard of tolerance shall be such that attachments, finishes, equipment, etc., can be installed accurately as required by the Drawings and Specifications.

4.6 Concrete

All concrete shall be to the requirements of N.Z.S. 1900: Chapter 9.3A, 1970, for the various grades and strengths as specified below. In addition, concrete and concrete work shall comply with this Specification.

Concrete shall either be obtained from a batching plant approved by the N.Z. Ready Mixed Concrete Association Incorporated, for the appropriate grade, or shall be site batched and mixed of the materials, by the methods, and under the controls specified in N.Z.S. 1900: Chapter 9.3A.

Concrete shall be of the grades, and shall have the

twenty-eight day compressive strengths statistically specified in N.Z.S. 1900: Chapter 9.3A, as follows:

(a) Foundation beams, nibs, aerator tank and floorslabs .. .. 20 MPa High Grade

(b) Blocks infill grout .. .. .. 17.5 MPa Ordinary Grade

Concrete placing, practice, curing and stripping shall be as specified in N.Z.S. 1900: Chapter 9.3A. Concrete slump and compression testing, and sample frequency shall be as specified in N.Z.S. 1900: Chapter 9.3A.

4.7 Masonry Standard Specification

N.Z.S. 1900: Chapter 6, Division 6.2 and Chapter 9, Division 9.2 shall be read with, and form part of this Specification.

4.8 Concrete Blocks

Concrete blocks shall be waterproof standard grey, Class A concrete units to N.Z.S. 595 "Concrete Masonry Units", containing Onoda N.N. Waterproofing, and shall be sound, true to shape and with sharp arrises, clean and undamaged. Before use the blocks shall be kept dry, free from contact with the ground, and covered from the weather with a tarpaulin. Blocks shall be steam and yard-cured before being brought onto the site.

4.9 Blocklaying Practice

Blocklaying shall be carried out by expert blocklayers in a firm of Contractors specialising in the laying of concrete blocks. Only first-class workmanship will be accepted.

Mortar shall be Mix No. 1-12.5 MPa as defined in Clause 6.2.4 of N.Z.S. 1900, and shall contain Onoda N.N. emulsion used strictly in accordance with the manufacturer's instructions. During the progress of the work, every care must be taken to prevent shrinkage by adequately protecting blocks from moisture penetration. Form weepholes and control joints in accordance with normal practice, and as shown on the Drawings. Form 25 mm deep by 10 mm recess at control joints, and fill with 10 mm x 10 mm grey Uraflex One. All joints shall be of even width and shall be formed with a hollow tool. On completion, grind off all nibs and clean down.

4.10 Concrete Block Infill Grout

All reinforced cores, all bond beams and lintels, and all cores of fire walls shall be filled with grout concrete of minimum compressive strength 17.5 MPa. Prior to filling cores, remove all rubbish and mortar droppings via "rake-out" openings in bottom course, and obtain the Engineer's approval. Place, sample, test and cure concrete, as specified in Clause 4.6.

4.11 Floor Slabs

On compacted sand, lay Moistop 737, lapped at least 50 mm, and sealed with 50 mm pressure sensitive plastic tape - Blaxstrap or equivalent.

Pour slabs in longitudinal strips as shown, with keyed construction joint between.

Reinforce with HRC 665 mesh, laid 30 mm from top surface and lapped two squares, supporting in position with three 75 x 75 concrete pieces per square metre.

Compact and screed with a vibrating screed, and power-float to a hard, dense, smooth finish. As soon as initial set has taken, saw transverse joints as shown to control shrinkage cracking. Keep permanently damp for at least seven days, or use an approved curing compound.

4.12 Building-In

As concrete work proceeds, build-in all bolts, wires, rods, etc., necessary for securing timber, steel and concrete blocks to foundation walls, pads, piles and floors. Set 150 mm x 10 mm diameter bolts at 1 metre centres for fixing timber frames. Built-in bolts shall be used in preference to ramset bolts wherever practical for fixing timber to concrete components. Also cast in PVC ducts for future control and dosing lines as shown.

4.13 Structural Steel Materials

(a) All steel shall be to the requirements of B.S. 4360: Part 1, 1968 Grade 43A or Grade 43C.

(b) Mild steel bolts shall be to the requirements of N.Z.S. 1069: 1966 Grade B.

4.14 Structural Steel Workmanship

Structural steel workmanship, construction, fabrication and erection shall conform with the requirements of N.Z.S. 1900: Chapter 9.4, Parts H and J. All members shall be free from twists and distortions, and parts shall be assembled in such a manner that they are not twisted or otherwise damaged. Structural steel frames must be well braced at all times, using temporary bracing if necessary.

4.15 Welding

Welding and welding equipment shall be in accordance with the following Standard Specifications, as appropriate:

Welding Plant	B.S. 638
Covered Electrodes	B.S. 639
Procedures and Requirements	B.S. 5135

Welding shall be carried out only by qualified welders, who may be required to produce evidence of their ability or to pass qualification tests as set out in N.Z.S. 1366: Part 1.

Joints shall be prepared to the dimensions given in B.S. 5135, and shall be cleaned of oil and flame cutting oxides, prior to welding. Pre-heat where required, and do not weld in wet or windy conditions.

4.16 Galvanising

All steel ladders, stairs, rails and grills and other steel components shall be hot dip galvanised after fabrication.

4.17 Steel Frame at Filters - Preparation

The south wall steel frame shall be sand or grit blasted to a minimum standard of Sa 2½, as specified in Swedish Standard SIS 05 59 00.

Mill scale, rust and foreign matter shall be removed to the extent that the only traces remaining are slight stains in the form of spots or strips. Finally, the surface shall be cleaned with a vacuum cleaner, clean dry compressed air, or a clean brush, and the surface shall then correspond in appearance to the prints designated Sa 2½ in Swedish Standard 05 59 00.

Newly cleaned steelwork shall be over-coated within four hours of blasting. On no account shall newly blasted steelwork be left overnight prior to over-coating. If this situation should occur, the surface shall be freshly blasted prior to painting.

4.18 Steel Painting in Fabrication Workshop

Apply by conventional air spray in conjunction with pressure pot, one coat of Dimetcote 6 to achieve a dry film thickness of 2½ mils.

4.19 Timber Standard Specifications

The following Standards, together with all current amendments shall be read with and form part of this Specification:

N.Z.S. 1900, Chapters 6.1 and 9.1 "Timber"
N.Z.S. 3631, 1978 "Classification & Grading of N.Z. Timbers"
Timber Preservation Authority "Specifications"
N.Z.S. 3614, 1971 "Construction Plywood"

4.20 Timber Materials

All timber shall be seasoned and dried to a moisture content of less than eighteen percent prior to use.

Species, gradings and preservation treatment shall be as follows:

(a) Internal Structural Timber

Studs, dwangs, rafters, trusses etc and all other structural timber shall be of No. 1 Framing Grade Radiata Pine, or of Building A Grade Rimu, to the grading requirements of N.Z.S. 3631, preservation treated to T.P.A. Commodity Specification C8 "Low Decay Hazard", to the nominal sizes as shown on the Drawings, Gauge two edges where framing is lined.

(b) External Structural Timber

Exposed framing shall be as above, but preservation treated to T.P.A. Commodity Specification C7

(c) Exterior Joinery, Facings, etc.

Such timbers shall be Dressing A Grade Rimu, preservation treated to T.P.A. Commodity Specification C7 or

Dressing Grade Radiata preservation treated to T.P.A. Commodity Specification C6.

(d) Internal Facings and Finishing Timbers

Exposed timbers in this category shall be Dressing A Grade Rimu.

(e) Nailplate Trusses

Nailplate trusses shall be supplied by a fabricator approved by the Engineer and shall be covered by the design certificate of a Registered Engineer. Handle and install in accordance with the designer's and manufacturer's instructions, and brace as required.

4.21 Timber Practice

(a) Damp Proof Course

Continuously separate all timber from contact with concrete or blocks, using a layer of two-ply bituminous sheet damp course.

(b) Internal Partitions

Frame up as shown on the Drawings with 100 mm x 50 mm studs at 600 mm centres, dwangs at 800 mm centres, and 100 mm x 25 mm or Pryde steel angle flush bracing. Solid dogleg brace to narrow widths. Provide additional 50 mm x 50 mm dwangs where necessary to suit wall lining.

Form lintels, install joinery, trim and build as shown, and in accordance with best trade practice.

(c) Demountable Partitions

Construct demountable partitions in one piece by above

methods. Mount in place by an approved method allowing easy future non-destructive removal and replacement.

(d) Finishing

Use brass, galvanised or special exterior nails and screws. Stop all nailholes in exposed work with suitable non-staining putty. Sand all dressed exposed finishing timbers to a fine finish.

4.22 Ply Sarking Diaphragm

Supply and install 12.5 mm Construction Ply sarking, Grade CC, to the requirements of N.Z.S. 3614, with tight nailing edges and free from gross defects. Ply diaphragm provides lateral restraint to building frames and to end walls against wind and seismic loadings. Lay ply with face grain perpendicular to framing members. Stagger end joints, dwang with 100 mm x 50 mm at all sheet edges, and closely butt sheets on member centre lines. Nail with 50 mm x 9 ga nails at 150 mm centres to all sheet edges, and at 300 mm centres to all intermediate members.

4.23 Roof Cladding

Supply and install fire retardant breather type building paper to N.Z.S. 2295 over entire roof, lapping at least 200 mm. and supported on 50 mm x 1 mm galvanised wire netting.

Supply and install 24 gauge galvanised steel Dimond 16, or approved equivalent, tray roofing to all roof surfaces. Cut to required full lengths, and fix in full accordance with the manufacturer's recommendations.

Use Dimond Canterbury Prickle or equivalent detail at all ridges, with upstands fully capped. Seal off all ends, turn down into gutters, and flash and seal to render the whole roof fully water-tight.

4.24 Gutters and Downpipes

Provide, fabricate and install 24 gauge galvanised steel gutters, Dimond or equivalent pre-formed fascia eaves gutters, 16 gauge galvanised iron rainheads, and PVC down-pipes securely fixed, all as shown, in accordance with best trade practice, and to the approval of the Engineer.

4.25 Flashings

Flash and cover-flash all vent pipes, roof lights, window heads, door heads, wall tops, angles, etc., and wherever else shown or necessary to render the complete building water-tight.

4.26 Roof Lights

Form roof lights as shown using clear "Duralite f" or equivalent sheeting to match trays profile. Fix to purlins with screws having a felt or plastic washer between the aluminium washer and the sheeting. Seam bolt edge laps at 300 mm centres between purlins.

4.27 Insulation

In office area only, install R13 100 mm fibreglass building batts in ceiling cavity.

4.28 Doors

Supply and install doors complete with hardware as specified on the Door Schedule (Drawing 6708/13)

Supply and install two metalbilt or approved equivalent industrial roller shutter doors with approved locks.

4.29 Windows

Supply and install windows complete with glazing as specified on the window schedule (Drawing 6708/13)

4.30 Wall and Ceiling Linings

Provide and install wall and ceiling linings as detailed and as specified in the Schedule of Linings and Finishes (Appendix C to this specification)

Materials and fixing to be as follows:

(a) Prime Coat Insulating Board (Pinex)

Fix 12.5 mm sheets by stapling, or by 30 x 1.6 mm oxo-sealed panel pins driven at an angle to surface. Joint by the formation of a uniform bevel to form a Vee joint, leaving 1 mm movement gap,or by the use of N.Z. Forest Products PFS1 aluminium moulding primed with a suitable zinc chromate metal primer.

(b) Hardboard

To be 4.75 mm sheets fixed around edges with PVC joint strips, and secured to intermediate members with cadmium plated pins at 250 mm centres, punched below surface.

(d) Bisonboard

To be 8 mm sheets fixed to framing with 40 x 1.6 corrosion resistant panel pins at 150 mm centres to edges and 250 mm centres to intermediate members. Joint edges using extruded PVC mouldings.

4.31 External Claddings

Supply and install external claddings as detailed on the drawings. Sheath framing with breather type building paper and fix as follows and as recommended by the manufacturer.

(a) Asbestos Cement Flat Sheeting

Drill screw holes with masonry drill leaving 1 mm clearance and counter-sunk. Fix with 38 mm x 10 g galvanised or brass screws at not less than 15 mm from sheet edges and spaced at 300 mm around perimeter and at 450 mm for intermediate fixing. Commence fixing from centre of sheets.

(b) Coverline, Highline, Porch-panel, etc. Ribbed Asbestos Cement Panels

Pre-drill and fix with 40 mm x 13 gauge galvanised shear point nails spaced at 225 mm centres horizontally and at 600 mm centres vertically. In exposed locations, use 50 mm galvanised flat head nails.

4.32 Skirtings, Architraves, Railings, Cornices, etc

Provide and install mouldings to details as shown on the drawings, as follows and as required to complete in accordance with best of trade practice.

(a) Cornices generally - 25 x 25

(b) Architraves generally - 40 x 16 slightly bevel edge

(c) Skirtings generally - 90 x 16 with top edge slightly bevelled.

4.33 Built-In Furniture

Provide and install and finish built-in furniture and joinery as shown and detailed and as follows:

(a) Sinkbench - as detailed on drawing

(b) Workbench - as detailed on drawing.

(c) Log Desk - as detailed in the appendices to this specification.

(d) Lockers and seat unit - as detailed in the appendices to this specification.

4.34 Plumbing and Drainlaying Regulations

The whole of the drainlaying and plumbing work shall be carried out, completed and tested in accordance with the Drainage and Plumbing Regulations 1978, and to the entire satisfaction of the Sanitary Inspector and of the Engineer. Any special fittings not specifically mentioned, but required by the Bylaws, must be allowed for.

4.35 Cold Water Supply

Run 38 diameter alkathene main from Talbot Street supply as shown. Continue within the building as shown on the plumbing drawing.

4.36 Hot Water Supply

Supply and install a 20 litre mains pressure under-bench hot water cylinder.

Run 15 mm copper lagged with two layers of plumber's felt diagonally wound to serve the fittings each with a 15 mm diameter connection.

4.37 Sanitary Fittings

Supply and install the following sanitary fittings, complete with all necessary accessories, vents, fittings, etc.

(a) One first quality McSkimming's Glen Afton W. C. pan, complete with white Dux flush pipes, Dux white cisterns with Stanley valves, black Modernite delux seats and flaps, and Methven Ultraline angle stop cocks.

(b) Corner circular stainless steel WHB as shown with two Methven Ultraline C150 taps, plug, chain, waste etc.

(c) 450 x 300 sink to plastic laminate bench top with Methven UL 88 wall mounted mixing faucet and plug, chain etc.

(d) Allow a P.C sum of $500 for the supply and installation of emergency shower treadle valve, hinged base and dousing head. Details of this will be issued to the contractor by bulletin.

(e) Easyclean traps to floor drains as shown and as detailed in the appendices to this specification.

(f) Soda sump drain plug and chain.

(g) Plugs to pipe ends chlorine, soda, fluoride rooms etc.

(h) Other fittings and ends as shown.

4.38 Concealed Installation

All water service pipes, wastes and vents shall be built-in wherever possible, and where unavoidably exposed shall be neatly finished.

4.39 Contact of Dissimilar Metals

To avoid corrosion by galvanic action, do not allow galvanised iron to be in contact with aluminium, asbestos cement or copper. Separate with a layer of Malthoid or, in the case of pipes, as suitable spacer.

4.40 Hardware

Allow a P.C. sum of $250 for the supply of all hardware, other than door furniture, including toilet holders, cupboard handles and catches, kick plates, etc. excluding hinges and screws. Contractor to allow for fixing hardware.

4.41 Foul Sewer Drainage

Foul sewer pipes shall be 100 mm rubber ring jointed concrete, or UPVC to N.Z.S. 7649, as shown on the Drawings. Sumps, traps, vents, and connectors shall be constructed as shown, and in accordance with normal trade practice. Terminal vents shall be 100 mm PVC Novasoil, carried up above roof, and fitted with birdproof cowl.

Pipes' classes and minimum cover shall be as shown, and as for stormwater drainage. Minimum gradient to be 1:80. Terminate sewer at boundary fence for continuation to Talbot Street main by others.

4.42 Painting Workmanship

(a) Standards

All paint, preparation and painting work shall be carried out by skilled tradesmen in conformity with N.Z.S. 2239: 1968 "Recommendations for the Painting of Buildings".

(b) Materials

All paint systems shall be first quality, using only freshly opened containers, and all paint shall be applied strictly in conformity with the manufacturer's instructions. Where the Contractor cannot guarantee good finish with the number of coats specified, he shall allow extra coats accordingly.

(c) Sanding and Preparation

Ensure adequate surface preparation as required, and lightly sand down between coats. Do not commence work on unsatisfactory surfaces. Contractor shall make good or repaint after necessary repairs or replacement at his own expense.

(d) Samples

Allow to prepare adequate samples of all finishes, particularly staining, which shall be approved before work commences. Any final work inferior to the approved samples shall not be accepted.

(e) Colour Schedule and Systems Confirmation

The Engineer will provide a schedule of colours and will confirm the following systems schedules on request. The Contractor shall give the Engineer at least two weeks notice of when the colour schedule will be required.

4.43 Exterior Painting

Allow to paint all exposed exterior building surfaces except loading deck slab and steps as follows:

(a) Concrete and Asbestos Cement Surfaces

Two coats Dulux Weathershield

(b) Concrete Block Surfaces

One coat Dulux Masonry Filler
Two coats Dulux Weathershield

(c) Galvanised Steel Roofing, Gutters, etc.

Degrease with Deoxidine 424, or approved equivalent.
One coat of Dulux primer for galvanised iron, or approved equivalent.

Two coats of Dulux Spruce roof paint, or approved equivalent.

(d) Exterior Bargeboards, Facias, and Painted Timber

One coat Dulux Wunderprime.
Two coats Dulux Spruce.

(e) Security Fence

One coat Dulux Galvanised Iron Primer
Two coats Dulux Weather shield.

4.44 Interior Painting and Papering

For finishes designation, refer to the Schedule of Linings and Finishes (Appendix C to this specification). Finish areas as designated as follows:

(a) Prime Coat Pinex

Two coats Dulux Vinyl Satin Plastic

(b) Hardboard

Two coats Dulux Wundercoat
Two coats Dulux Super Enamel

(c) Exposed Galvanised Steelwork

One coat Dulux galvanised iron primer
Two coats Dulux Spruce

(d) Bison-Board, Exposed Rafters etc and Ply Sarking - Throughout

One coat Dulux Wunderprime
Two coats Dulux Spruce

(e) Concrete Block Surfaces - All Rooms

One coat Dulux Masonry Filler
Two coats Dulux Spruce

(f) Built-In Furniture, Mouldings, Joinery

Two coats Dulux Wundercoat
Two coats Dulux Super Enamel

4.45 Tidying

On completion of the Contract, the whole of the buildings and the site shall be left in a clean and tidy condition. Leave floors, slabs, etc. broom clean, remove all paint and putty marks and clean and polish all glass inside and outside. Remove all rubbish, unused materials and temporary works from the site, and leave all areas fit for occupation.

SECTION FIVE - ELECTRICAL AND CONTROL CABLES

5.1 Scope

This section of the specification covers the subject of electrical and control cables but it is not intended to limit the work required from any trade. Refer also to Clauses 1.16 and 1.15.

The work includes the supply and installation of underground cables necessary for the establishment of the final power and control system, but does not include the supply or installation of that system.

5.2 Reservoir Signal Cable

Extend as necessary the alkathene pipe already buried to carry this cable into the treatment plant, adjacent to the point that the reservoir line leaves the building and extend to the foot of the ladder to the manhole. Draw in the cable leaving not less than 10 metres of coiled cable at each end of the alkathene pipe.

5.3 Talbot Street Submain

Install underground cable, complete with foil backed warning tape from the treatment station to the site of the Talbot Street pumping chamber. The cable is to enter the treatment station through build-in "F" and is to be left with not less than 3.5 metres coiled inside the building. The cable is to terminate at the pump station site with not less than 3.5 m of coiled cable. Any joints are to be made either above ground in pillar boxes of approved types in approved locations, or in proper, underground jointing chambers with steel lids.

5.4 Main Supply

The contractor shall allow to supply and install the main cable required by the Supply Authority. This cable is to enter the building through build-in "F" and is to have at least 2 metres of spare cable in the building.

5.5 Regulations and Standards

All work shall be in accordance with the New Zealand Electric Wiring Regulations, and all relevant New Zealand Standards, and local by-laws.

Gore Treatment Station

Specification Appendices

(a) Kerb only, Kerb and Channel

(b) Sump

(c) Linings and Finishes Schedule

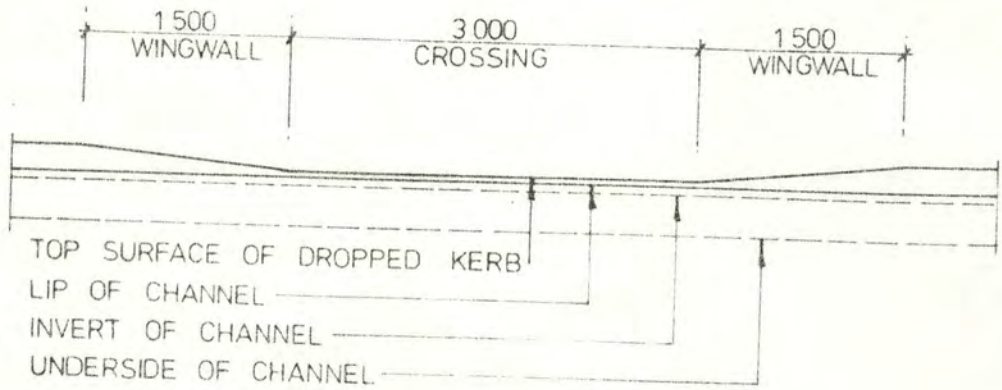
(d) Lockers and Seat Unit

(e) Log Book Desk

(f) Easy-Clean Traps

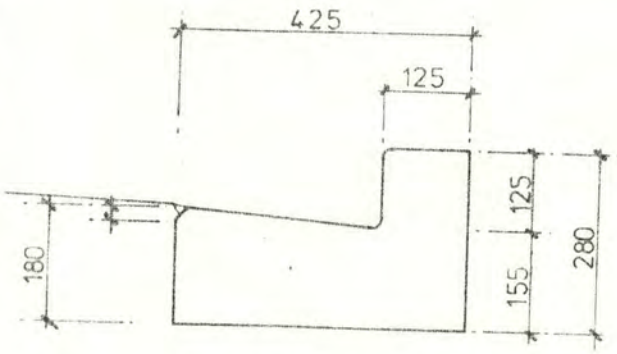
(g) Sluice Valve and Valve Box

(h) Stock Fence Detail.

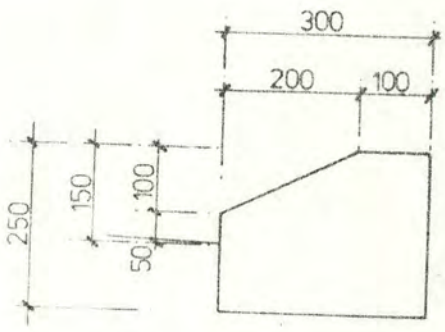


VEHICLE CROSSING ELEVATION

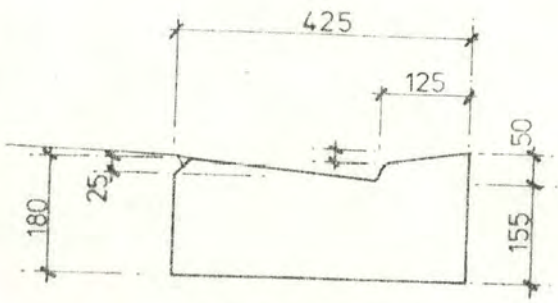
NB ROAD EDGE TO BE 5 ABOVE CHANNEL
ALL RADII TO BE 20 MINIMUM



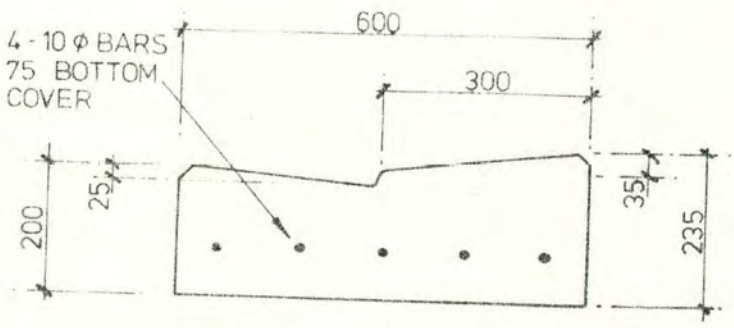
KERB & CHANNEL



MOUNTABLE KERB

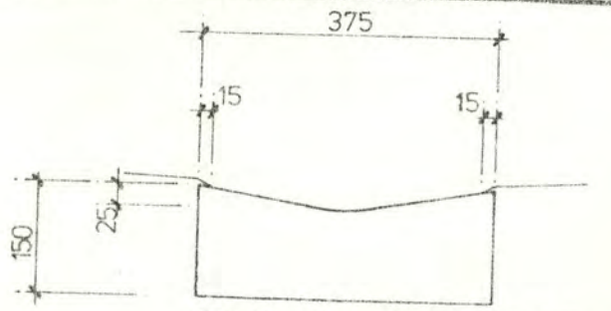


VEHICLE CROSSING



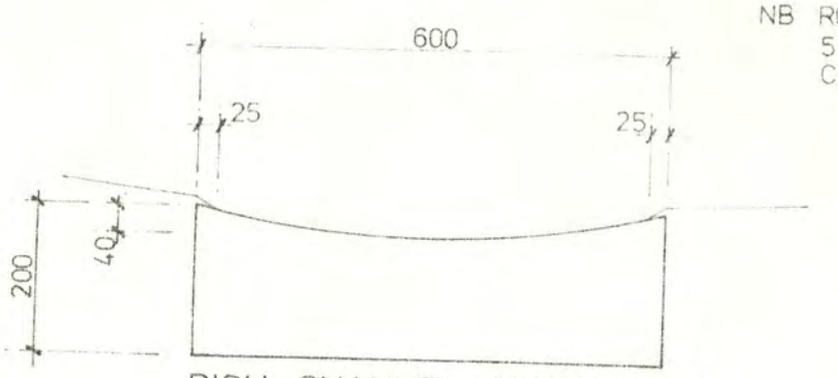
HEAVY DUTY CROSSING

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD KERB AND CROSSING DETAILS	SCALE N.T.S.	
		DATE MARCH '80	
		APPROVED	
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708	DRG NO A1

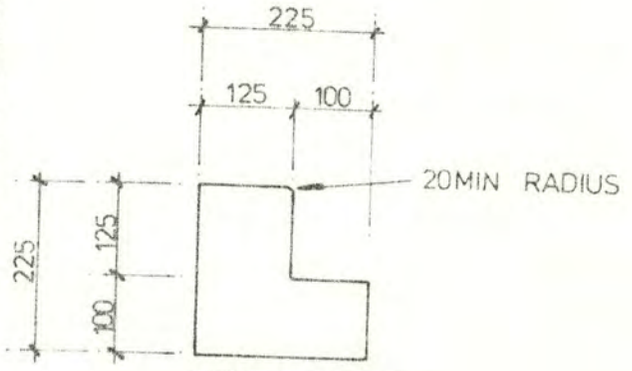


DISH CHANNEL (375 WIDE)

NB ROAD EDGE TO BE 5 ABOVE LIP OF CHANNEL

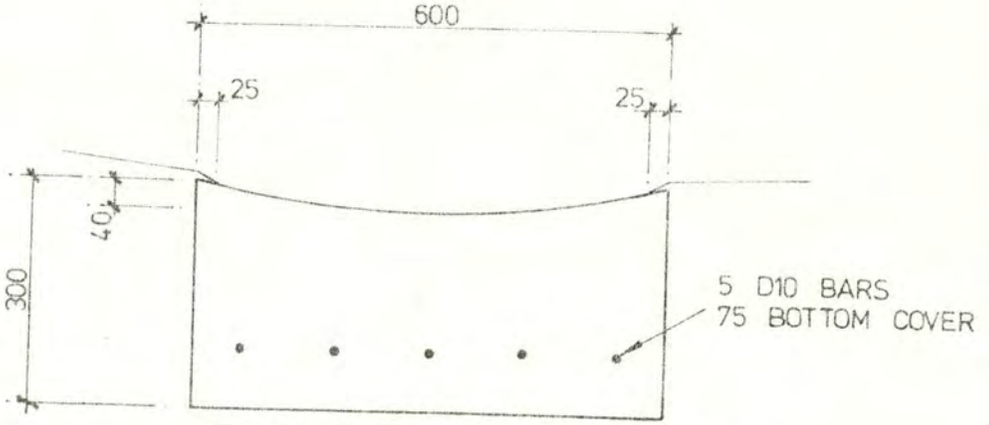


DISH CHANNEL (600 WIDE)



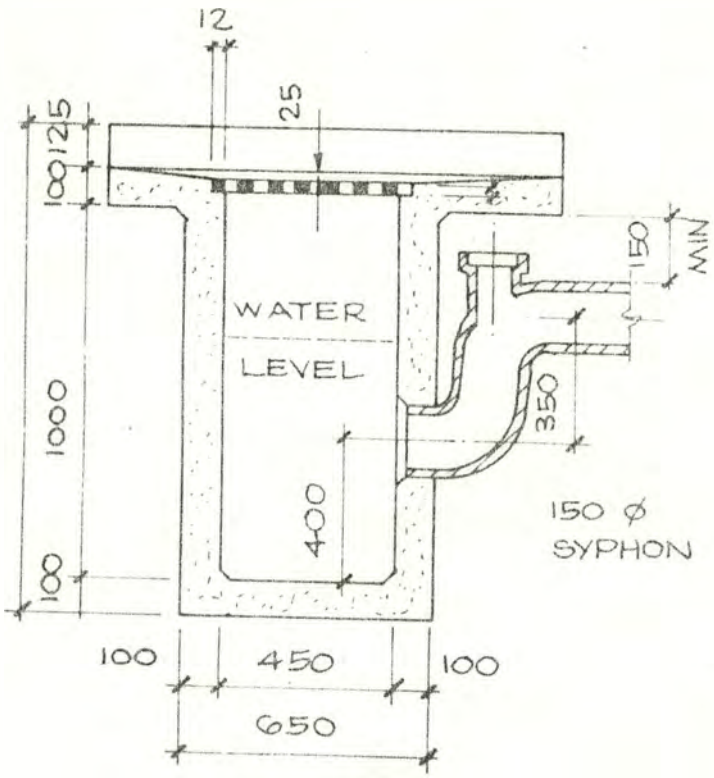
KERB ONLY

ROAD EDGE

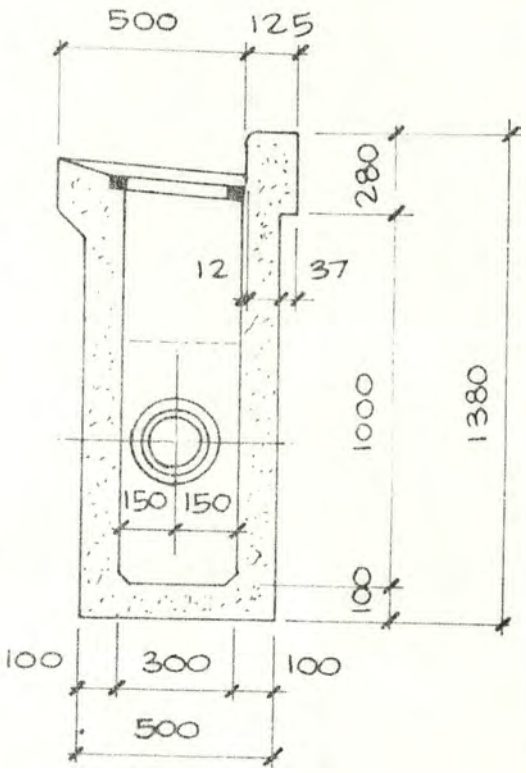


HEAVY DUTY DISH CHANNEL

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD DISH CHANNEL DETAILS	SCALE 1:100	
		DATE MARCH '80	
		APPROVED	
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708	DRG NO A 2

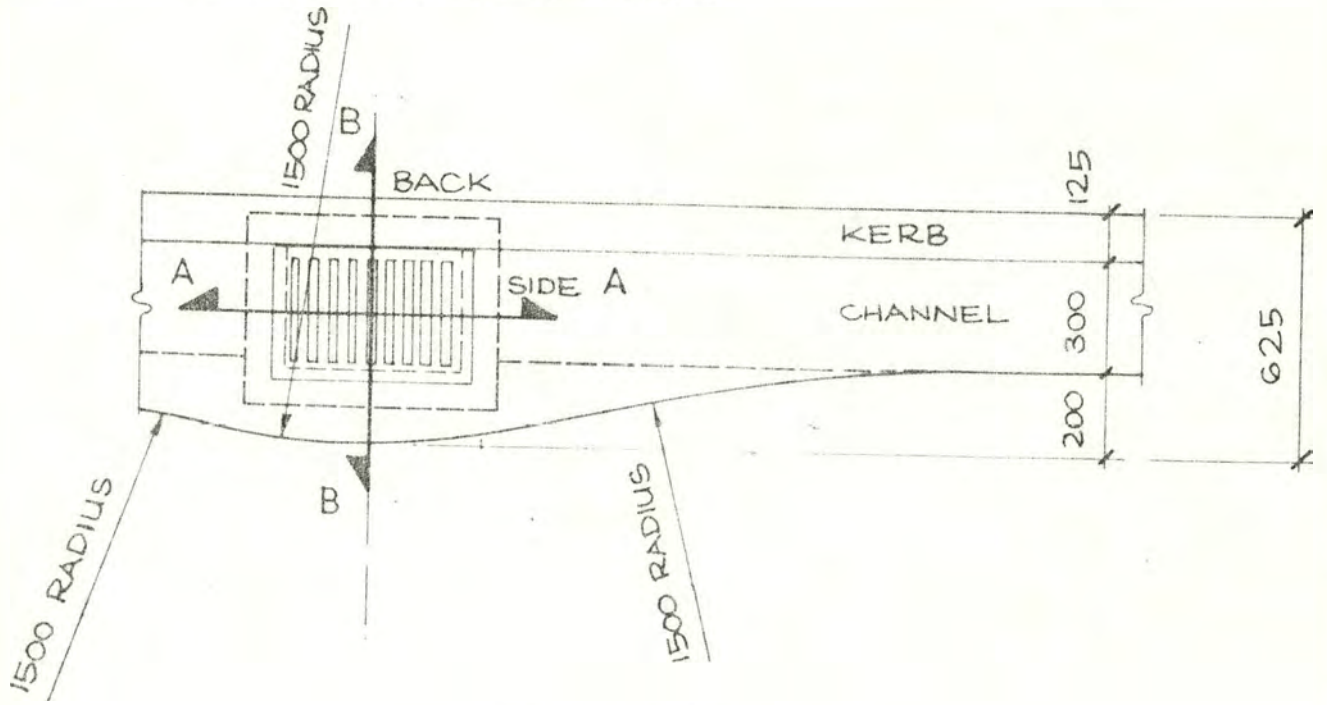


SECTION A-A



SECTION B-B

NOTE : ONLY BACK AND SIDE CONNECTIONS TO BE MADE



PART PLAN

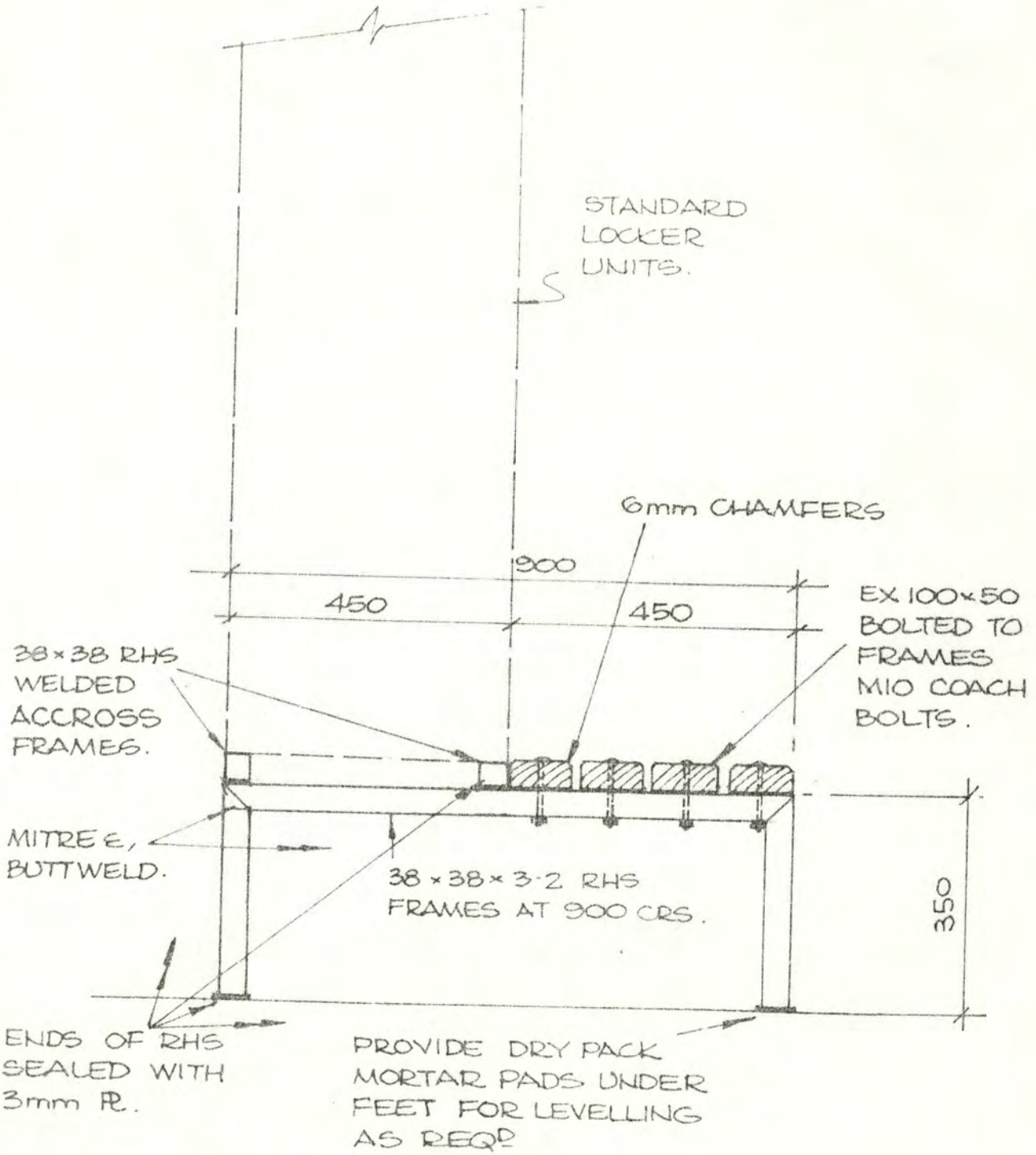
T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STORMWATER SUMP	SCALE 1:50
		DATE MARCH '80
		APPROVED
NORDEN CHAMBERS 55-59 ALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO B

Gore Treatment Station

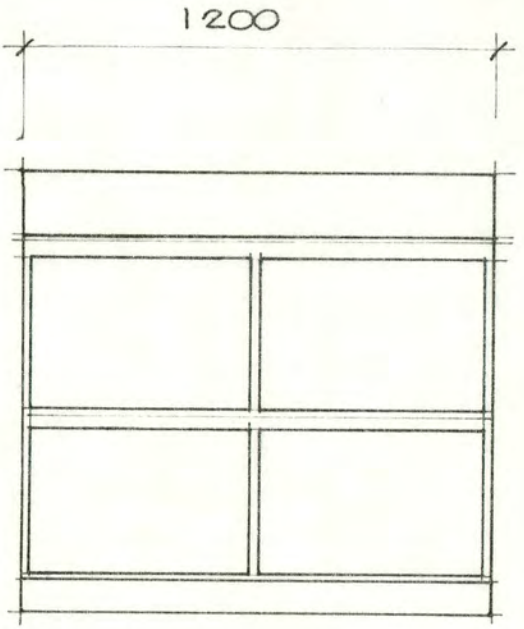
Schedule of Linings and Finishes

ROOM	WALL	LINING		CEILINGS		WINDOWS & DOORS TRIM, ETC	JOINERY FITTING		
		MATERIAL	FINISH	MATERIAL	FINISH		FITTING	MATERIAL	FINISH
Office	All	Hardboard	Paint	Pinex	Paint	Stain & Poly - U	Desk Sinkbench	Timber & Particle Board	Paint
Locks /WC	All	Hardboard	Paint	Pinex	Paint	Paint	Seat	Timber	Paint
Chlorine Soda Fluorine Generator Switchroom Filter & Treatment	Demountable Partitions and Filter/Locker	8mm Bisonboard	Paint	Exposed ply Sarking & Rafters	Paint	Paint	Work Bench	Timber	Paint
	Remainder	Conc Block	Paint						

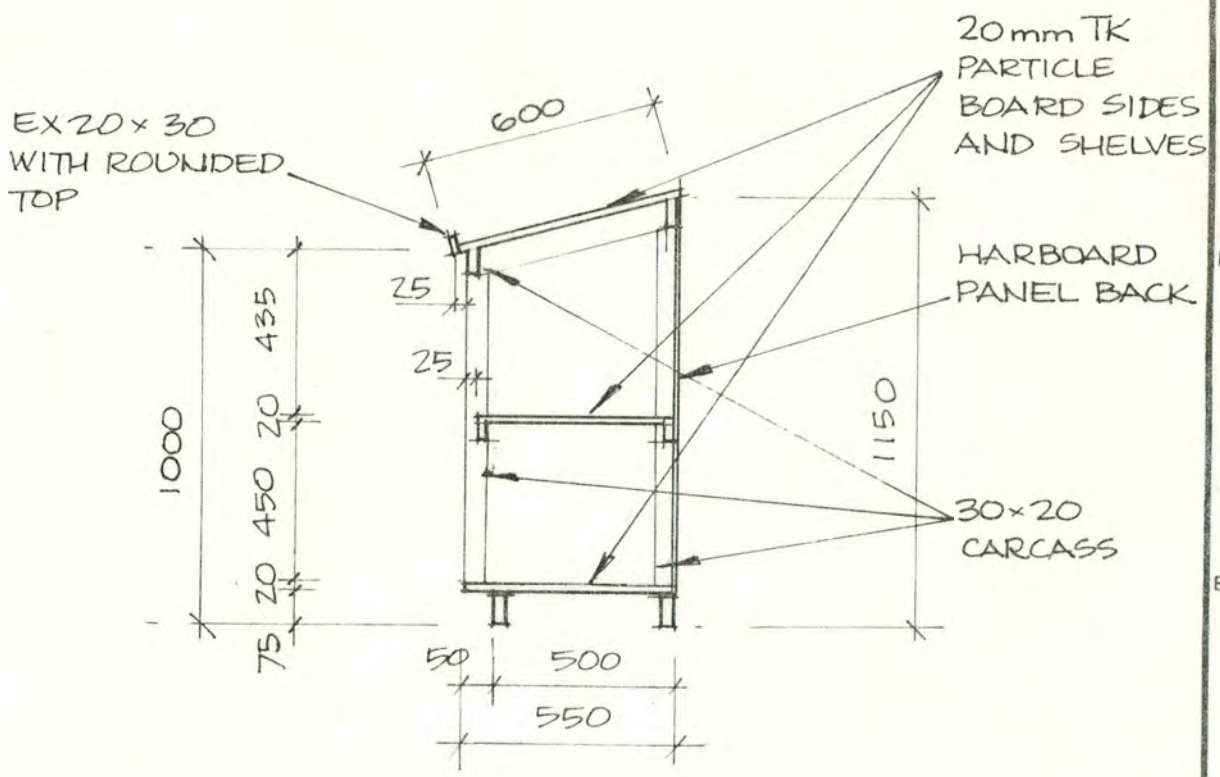
N.B. ALL STEEL TO BE GALVANISED.



T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD LOCKER ROOM SEATING	SCALE 1:10
		DATE 1979.
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO D

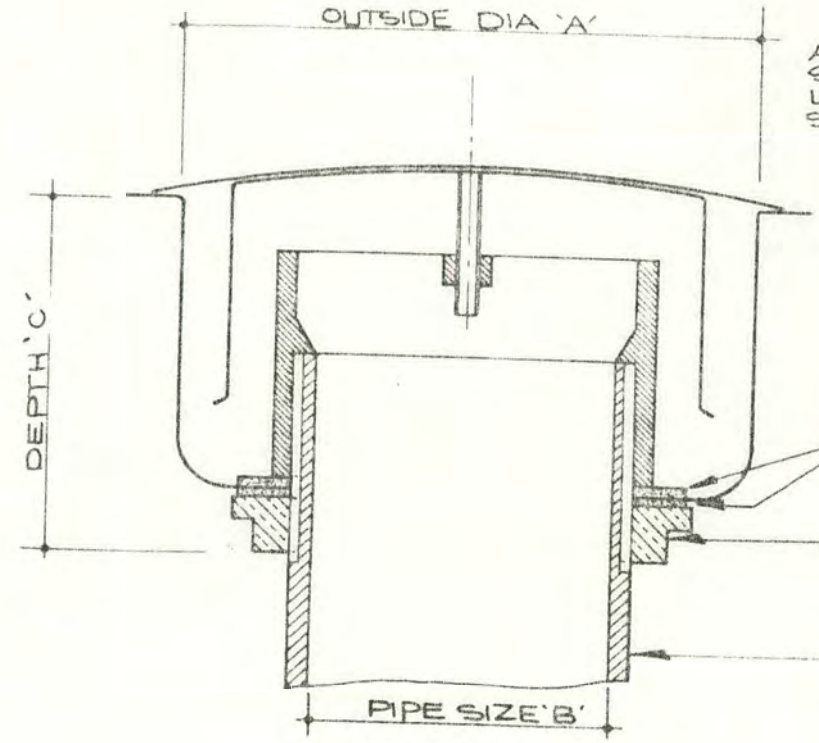


ELEVATION



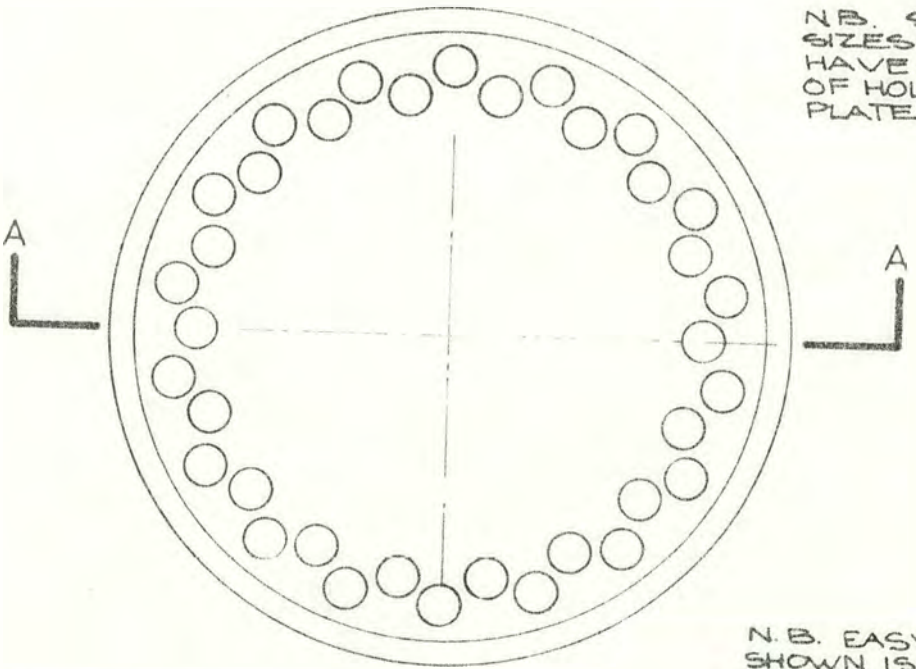
SECTION

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	LOG BOOK STAND	SCALE 1 : 20
		DATE MARCH 1980
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO / DRG NO SD30



SECTION AA

ALL MATERIALS STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.



PLAN

N.B. SMALLER SIZES OF TRAP MAY HAVE ONLY ONE ROW OF HOLES IN TOP PLATE

NOM SIZE	A	B	C
40	120	38	88
50	120	50	88
65	150	63	93
75	150	75	93

N.B. EASY CLEAN TRAP SHOWN IS NOMINAL SIZE 75mm DIA. OTHER SIZES AVAILABLE ARE 40, 50, 65, & 75

TRAP UNIT SHOWN IS AS MANUFACTURED BY METAL CRAFT INDS. LTD PALMERSTON NORTH

NZ PATENT Nº 117546

(GLND AGENT SILVER DOLPHIN IND. LTD)

T. H. JENKINS & ASSOCIATES
CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS

NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429

EASY CLEAN TRAP

TYPICAL DETAILS

SCALE 1:20

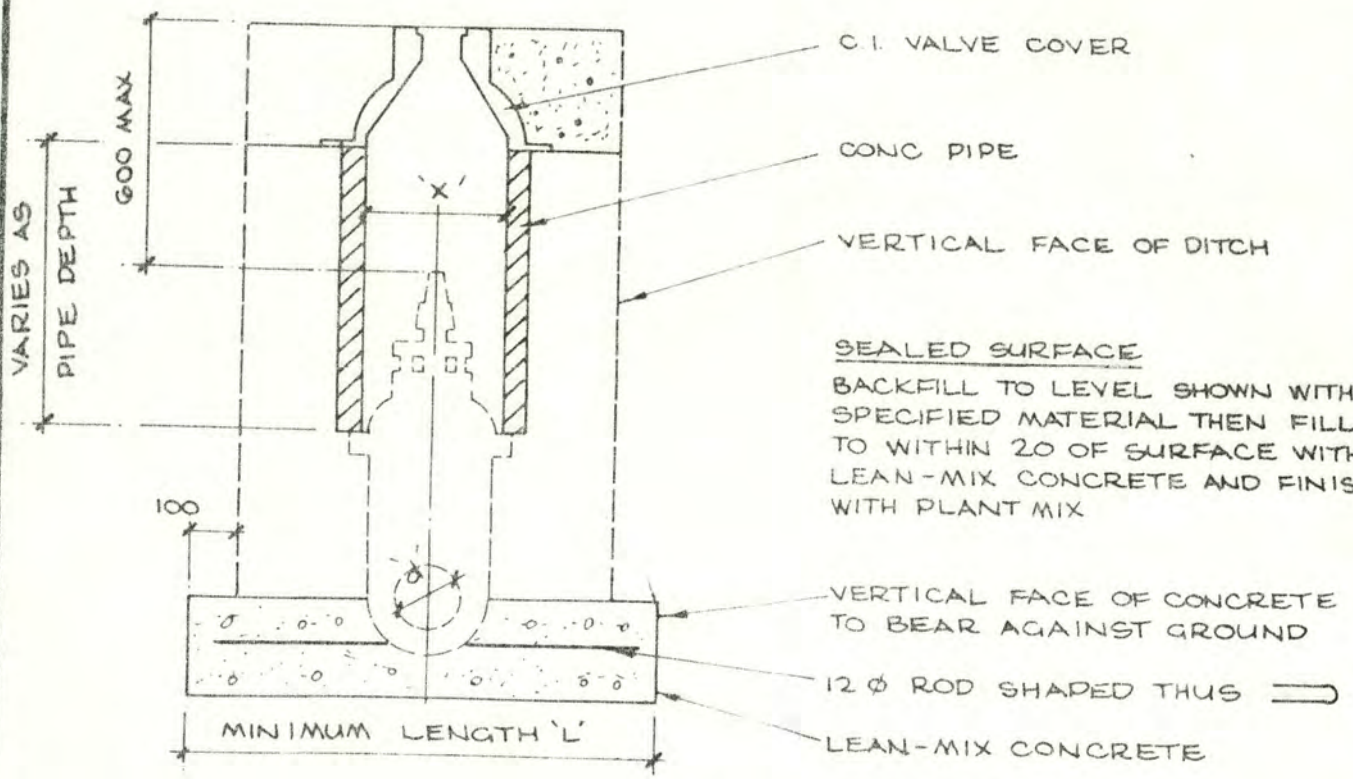
DATE 12-6-1979

APPROVED

PROJECT NO 6708

DRG NO F

A4



SECTION THRU MAIN

SEALED SURFACE

BACKFILL TO LEVEL SHOWN WITH SPECIFIED MATERIAL THEN FILL TO WITHIN 20 OF SURFACE WITH LEAN-MIX CONCRETE AND FINISH WITH PLANT MIX

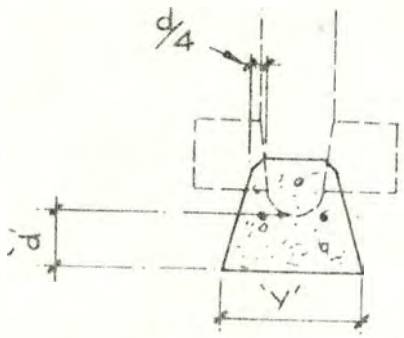
UNSEALED SURFACE

BACKFILL TO SURFACE WITH SPECIFIED BACKFILL AND RAM HARD

VALVE Ø	'X'	'Y'	'L'
100 Ø	225	200	600
150 Ø	300	250	600
200 Ø	222	300	750

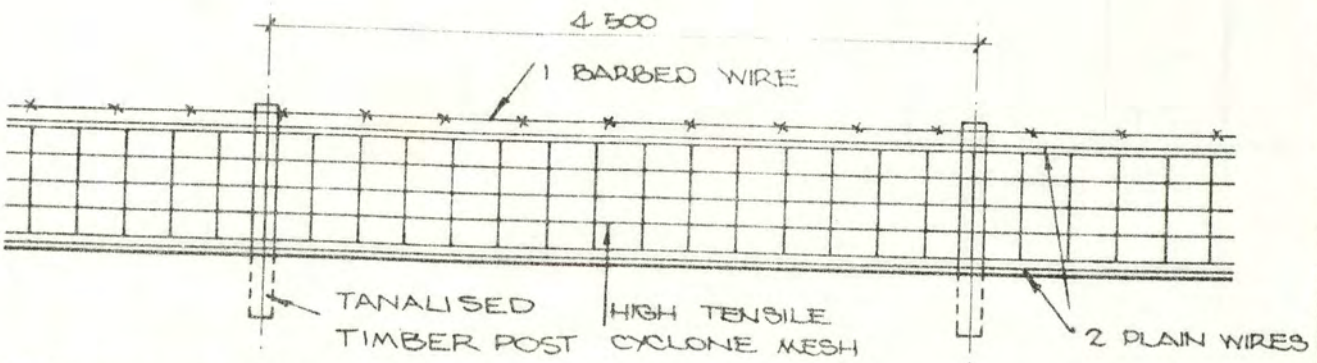
N.B

LEAN-MIX CONCRETE TO BE 10 AGG TO 1 CEMENT TO BE PLACED FAIRLY DRY AND RAMMED HARD



END ELEVATION

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	VALVE INSTALLATION	SCALE N.T.S. DATE MARCH '80 APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO G



CYCLONE FENCE

T. H. JENKINS & ASSOCIATES CONSULTING, CIVIL, STRUCTURAL & MECHANICAL ENGINEERS	STANDARD FARM FENCE	SCALE 1:50
		DATE FEB' 79
		APPROVED
NORDEN CHAMBERS 55-59 GALA STREET INVERCARGILL P.O.BOX 93, PHONE 82-429		PROJECT NO 6708 / DRG NO H

A4

PROPERTY FILE

PART____ OF____

RELATED FILES

ENGINEERING FILE	
REGULATORY FILE	

OTHER INFORMATION

COMPLIANCE SCHEDULE-B.W.O.F	
HAZARDOUS SUBSTANCES LICENCE	
CERTIFICATE OF REGISTRATION	
PLAN(S) IN SEPARATE STORAGE	

CONFIDENTIAL FILE	

ADDRESS:

Wentworth Street

VALUATION NO.	29760 307		
LOT NO.		DP:	
SECTION:	C.R. + 10/11	BLOCK:	XXIV
ADDITIONAL LEGAL DESCRIPTION			

PREMISES ALSO KNOWN AS:

PROPERTY FILES MUST NOT BE REMOVED FROM COUNCIL OFFICES

GORE DISTRICT COUNCIL

N E N S

PROPERTY FILE

PART_____ OF_____

ADDRESS: 69 wentworth st

RELATED FILES

ENGINEERING FILE	
REGULATORY FILE	

VALUATION NO.			
LOT NO.		DP:	
SECTION:		BLOCK:	
ADDITIONAL LEGAL DESCRIPTION			

OTHER INFORMATION

COMPLIANCE SCHEDULE-B.W.O.F	
HAZARDOUS SUBSTANCES LICENCE	
CERTIFICATE OF REGISTRATION	
PLAN(S) IN SEPARATE STORAGE	

PREMISES ALSO KNOWN AS: East Gore water treat plant.

PROPERTY FILES MUST NOT BE REMOVED FROM COUNCIL OFFICES

CONFIDENTIAL FILE

GORE DISTRICT COUNCIL

W E N S 6 9

People First
Southland District Council
Te Rohe Pôtae O Murihiku

Certificate No. 2009/72/55

TEST CERTIFICATE

Hazardous Substances Location

Issued pursuant to Section 82 of the Hazardous Substances and New Organisms Act 1996

This certificate is issued to:
Gore District Council: East Gore Water Treatment Plant

Expiry Date: 20 August 2010

Contact Details:
69 Wentworth Street
Gore
03 209 0330

Street Address:
69 Wentworth Street
Gore

This certificate is issued in accordance with Regulations 81 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001.

This certifies that the relevant requirements have been met for the locations and substances and the maximum quantities as specified below:

Location: Chlorine Store

Substances	**Quantity**
Chlorine	920kg drum

Conditions:

1) The substances specified above must be under the control of an approved handler where the relevant threshold quantities specified in the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 are exceeded.

2) Unless surrendered or revoked beforehand, this certificate shall remain in force until **20 August 2010** and may be renewed thereafter by an authorised test certifier.

3) This certificate must be produced at the request of an enforcement officer appointed under the HSNO Act 1996.

4) Special Conditions: Nil.

Issued 6 August 2009

Michael Sarfaiti
Test Certifier Registration No: TST 000078

1/09/8/11631 [dc]

Environmental Compliance Management and Training

Envirocom (NZ) Ltd

Tiromoana House
PO Box 5235
Dunedin
Phone/Fax 03 473 9153
Mobile 027 285 2611
Email Rex.Alexander@envirocom.co.nz

Hazardous Substance Location Test Certificate

Issued pursuant to Section 82 of the
Hazardous Substances and New Organisms Act 1996

Issued To: *East Gore Water Treatment Plant*

Contact Details:
69 Wentworth Street
Gore

03 208 9080

Certificate No: *000009-20011*

Site Location:
East Gore Water Treatment Plant
69 Wentworth Street
Gore
03 208 9080

This certificate is issued in accordance with Regulations 81, 82, 98 and 120 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001. This certifies that the relevant requirements have been met for the locations, substances and the maximum quantities as specified below.

Substance:		***Maximum Quantity:***
Class 3.1D	Flammable liquids	litres
Class 5.1.2A	Oxidising gases	210 kg

Conditions:

The substances specified above must be under the control of an approved handler where the relevant threshold quantities specified in the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 are exceeded.

Unless surrendered, revoked or becomes invalid beforehand, this certificate shall remain in force until the expiry date stated below, at which time it may be renewed by an authorised Test Certifier.

This certificate must be produced at the request of an Enforcement Officer appointed under the HSNO Act 1996.

Maximum of 3 x 70kg chlorine cylinders permitted on site. A Compliance Plan is required for the Underground Storage of Fuels in single skin tanks

Rex Alexander

Test Certifier Registration No 000009

Date Issued: *17-Mar-05*

Expiry Date: *16-Mar-06*

Environmental Compliance Management and Training

Envirocom (NZ) Ltd

Tiromoana House
PO Box 5235
Dunedin
Phone/Fax 03 473 9153
Mobile 027 285 2611
Email Rex.Alexander@envirocom.co.nz

Hazardous Substance Location Test Certificate

Issued pursuant to Section 82 of the
Hazardous Substances and New Organisms Act 1996

Issued To: *East Gore Water Treatment Plant*

Contact Details:
69 Wentworth Street
Gore

03 208 9080

Certificate No: *000009-20008*

Site Location:
East Gore Water Treatment Plant
69 Wentworth Street
Gore
03 208 9080

This certificate is issued in accordance with Regulations 81, 82, 98 and 120 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001. This certifies that the relevant requirements have been met for the locations, substances and the maximum quantities as specified below.

Substance:	***Maximum Quantity:***
Class 5.1.2A Oxidising gases	920 kg

Conditions:

The substances specified above must be under the control of an approved handler where the relevant threshold quantities specified in the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 are exceeded.

Unless surrendered, revoked or becomes invalid beforehand, this certificate shall remain in force until the expiry date stated below, at which time it may be renewed by an authorised Test Certifier.

This certificate must be produced at the request of an Enforcement Officer appointed under the HSNO Act 1996.

Rex Alexander

Date Issued: *17-Mar-05*

Test Certifier Registration No 000009

Expiry Date: *16-Mar-06*

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO

ERMA New Zealand

24 February 2005

ERMA DG reference number: ***4799***

Neil Jorgensen
Gore District Council (East Gore Treatment Plant)
P O Box 8
GORE 9700

-S012251

Renewal of Dangerous Goods Licence for 2005/2006 for Location: Wentworth Street Gore

On 31 March 2005 your current Dangerous Goods Licence will expire.

This letter is formal notification that your licence is renewed to **31 March 2006** providing there are no significant changes to your operation and you are not required to have a Test Certificate before 31 March 2006 – please see the staged implementation table below. There is no fee or application required as long as there are no changes to your licence.

Please keep this letter for inspection and as proof of the renewal of your licence. Also keep your Dangerous Goods Licence which expired on 31 March 2004 available as this renewal is based on the terms and conditions that apply to that licence.

Your Dangerous Goods licence is not the same as a Location Test Certificate which you must obtain from a Test Certifier and renewed annually by your due date.

You will need a new licence:

- If your operation has changed in respect to the class and volume of hazardous substances you hold, their location, or site ownership, you will need to get a new **Dangerous Goods Licence** from a Test Certifier. You need to let us know if there have been any changes so that we can update our data base. Please contact our HS Compliance toll free line 0800 376 234 or email dginfo@ermanz.govt.nz.

- If any of the substances you hold have been transferred to the HSNO Regime you will need to get a **Location Test Certificate** from a **Test Certifier**. This could mean that some businesses may need to hold both certificates to cover non-transferred and transferred hazardous substances.

ERMA New Zealand put in place a staged implementation plan based on alphabetical listing. The table below will help you find out when you must convert your existing Dangerous Goods licence to a Location Test Certificate or alternatively you must provide ERMA New Zealand with an implementation plan.

If your name begins with A to Ck and you hold transferred hazardous substances then you may already have a Location Test Certificate. If not, please contact a Test Certifier to obtain one.

Staged implementation for hazardous substances

Persons/Businesses beginning with...	Due date	Persons/Businesses beginning with...	Due date
A to B	Overdue	I, J, K, L	31 October 2005
Ca to Ck	28 February 2005	M	30 November 2005
Cl to Cz	31 March 2005	N,O, P	31 January 2006
D, E, F	30 June 2005	Q, R, S	31 March 2006
G, H	31 August 2005		

Remember, you must have a Dangerous Goods Licence if:

- you hold flammable substances that have not yet been transferred to the HSNO regime; and/or
- you hold transferred hazardous substances but you are not yet required to obtain a Location Test Certificate under the alphabetical timetable (above).

If you hold tracked substances or large volumes of transferred substances, you should already have obtained a Location Test Certificate issued by a Test Certifier. If you do not yet have your Location Test Certificate please contact a Test Certifier immediately, as the deadline for this was 31 December 2004.

Further Information

Please call us on our HS Compliance toll free line 0800 376 234 or email dginfo@ermanz.govt.nz. If you are contacting us about this letter, please ensure you quote your ERMA DG reference number ***4799***.

Specific information about the hazardous substances you hold should be directed to either a Test Certifier or Hazardous Substance Advisor. Our 0800 service can not help you with technical advice.

A list of Test Certifiers and Hazardous Substance Advisers can be obtained from our website (http://www.ermanz.govt.nz/search/test-cert-reg.asp or http://www.ermanz.govt.nz/hs/hs-advisors.asp).

Copies of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice can be obtained from Bennetts Government Bookshop or from our website (http://www.ermanz.govt.nz/resources/publications/pdfs/consolidatedGN35and128.pdf). We do not hold hard copies of this document.

A list of hazardous substances which require Approved Handlers and Tracking can also be found on our website (http://www.ermanz.govt.nz/hs/dangerous-goods/DGAHTR.pdf).

Yours sincerely

Bas Walker
Chief Executive

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO

ERMA New Zealand

File Ref: T515/02

9 March 2004

FILE COPY

Gore District Council (East Gore Treatment Plant)
P O Box 8
GORE

Dear Licence Holder

RENEWAL OF DANGEROUS GOODS LICENCE

Introduction

On 1 April 2004, your current Dangerous Goods Licence will expire. In the past, you would have been required to apply for a new licence by 15 March 2004. This year, instead of renewing your licence through your Territorial Authority, ERMA New Zealand (the Environmental Risk Management Authority) will renew it for another year. The reasons for this are explained below.

This licence is hereby renewed on the same terms and conditions as your current licence. **No fee** is being charged for this renewal, and no application is required. However, you should retain this letter as evidence of the renewal.

As part of the renewal process, you must complete the attached form and return it to ERMA New Zealand by **30 April 2004**. This form will provide us with a record of your contact details and the dangerous goods that you currently hold. If you would prefer to use an electronic form, it will be available on our website from 15 March 2004, www.ermanz.govt.nz.

The power for ERMA New Zealand to directly renew licences is provided for under the Hazardous Substance and New Organisms Act 1996 (HSNO Act). However, this action is being taken with the agreement of the territorial authority with whom you normally deal.

If the conditions of your licence have changed

If any part of your operation has changed in relation to your Dangerous Goods Licence, such as the substances you hold or the location they are held in, you will need to get a new Dangerous Goods Licence from ERMA New Zealand. To do this, indicate on the attached form that your situation has changed and we will send you information about what you will need to do next. Do **not** at this stage try to make an application for a new licence.

Wellington Office: *20 Customhouse Quay, Cnr Waring Taylor Street and Customhouse Quay, P O Box 131, Wellington*
Telephone 0800 ERMADG (0800 376234), Facsimile +64-4-914 0433, Email: dginfo@ermanz.govt.nzWebsite: www.ermanz.govt.nz

Rules you have to meet

You must continue to meet the transitional requirements of the HSNO Act, which includes reference to the Dangerous Goods Regulations.

If you are unsure whether you are currently complying with the Dangerous Goods Regulations, please email dg@osh.dol.govt.nz or phone (09) 443 3815. This will put you in contact with a dangerous goods specialist at the Department of Labour, Occupational Safety and Health Service, who will be able to help you. This service will be available until 30 April 2004 by which time you should have sent in your completed renewal form.

Why are we renewing Dangerous Goods Licences in this way?

There are two reasons why we have renewed your licence in this way:

1. From 1 April 2004, a large number of dangerous goods will be transferred to the HSNO Act. In additional, a number of the regulations are new. As a result, we plan to stage the implementation of the new HSNO regulations over a period of time. In short, for substances which have been transferred you will have six months to ensure you understand and can meet the new requirements. Details of the transitional rules are available on our website.

   To enable this staged implementation, a change to the HSNO Act is required. This change should be passed by the Parliament before 1 April 2004. However, if the legislation is delayed for any reason, you will still be compliant as your Dangerous Goods Licence has been renewed by ERMA New Zealand.

2. Not all dangerous goods are being transferred on 1 April 2004. This means that although some of the dangerous goods you hold will be covered by our staged implementation plan, some may not. Renewing your Dangerous Goods Licence ensures these substances are covered and you remain compliant with the HSNO Act.

Contact

If you have any questions, please contact ERMA New Zealand on free phone 0800 ERMADG (0800 376 234) or email dginfo@ermanz.govt.nz. The 0800 number will be available from 15 March 2004.

Please note that both of these contacts will operate by collecting queries from anyone affected by the transfer of dangerous goods. Because our resources are limited we will probably not be able to answer questions immediately and on a one-to-one basis. However, we will develop responses to commonly asked questions and get these back to you as soon as we can. We will also be able to provide information on consultants and outside experts who you can engage to provide advice. Information will also be posted on our website.

Bas Walker
Chief Executive

SECTION D – OTHER DANGEROUS GOODS CLASSES 4 & 5

Note: If you prefer, attach a separate schedule of Class 4 & 5 substances including their use and the maximum quantity you hold by type of container. Alternatively, if your current Dangerous Goods Licence contains this information attach a copy to this form.

15. Are Dangerous Goods of Class 4 & 5 used on the premises? ☐ Yes ☐ No
(If no, go to Section E. If yes, complete questions 16 & 17.)

16. List any Class 4 & 5 the substances recorded on your current Dangerous Goods Licence
(including the substances, their use, quantity held by type of container):

17. List any additional Class 4 & 5 substances that you hold
(including the substances, their use, quantity held by type of container):

SECTION E – ADDITIONAL NOTES

18. Is there any additional information that you think may be relevant to your licence? ☐ Yes ☐ No
(If no, go to question 20. If yes, complete question 19.)

19. Record any additional information here:

20. Have you attached any schedules or information to this form? ☐ Yes ☐ No
(If yes, ensure you attach it securely to this form and note the number of pages.)

Indicate the number of pages attached here: ☐

Now send this form and any attachments to ERMA New Zealand, DG Licence Renewal, P O Box 131, Wellington. If you have any questions, please contact ERMA New Zealand on **0800 ERMADG (0800 376 234)** or email '**dginfo@ermanz.govt.nz**'. The 0800 number will be available from 15 March 2004.

Privacy Statement

The information you provided in this form is to assist in determining whether you meet the requirements for a Dangerous Goods Licence or continue to do so in accordance with Hazardous Substance and New Organisms Act 1996 (HSNO Act). It will also allow ERMA New Zealand to provide you with timely information which may impact on your Dangerous Goods Licence. All the information is collected in accordance with the HSNO Act and is held by ERMA New Zealand. The information you provide will be made available to enforcement agencies as defined by Section 97 of the HSNO Act for the purpose of enforcing the provisions of the Act. Under the Privacy Act 1993 you are entitled to access and seek correction of any personal information held.

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO

ERMA New Zealand

File Ref: T515/02

9 July 2004

Neil Jorgensen
Gore District Council
P O Box 8
GORE 9700

Dear Licensee

DANGEROUS GOODS LICENCE RENEWAL - 4799

Thank you for completing the 'Confirmation of Renewal of Licence to Store Dangerous Goods' form. Your Licence has been renewed under the same terms and conditions as your previous Licence. We have entered the details from your form into our system; refer to 'Form Detail' below to check your details.

Under the new HSNO legislation your Dangerous Goods Licence will be replaced by a Test Certificate for your location where you store or use hazardous substances. The timing and details of what you must do are explained below. More information on all these requirements is available from our website or by contacting ERMA New Zealand on free phone 0800 376 234, emailing 'dginfo@ermanz.govt.nz' or by contacting a Test Certifier.

Quick points on what you must do and by when

Test Certificates

1. You must obtain a Test Certificate for your location and Approved Handler(s) by **31 August 2005**

2. There are two exceptions to this date. These exceptions depend on the substances you are using or storing:

    a. If you handle a 'tracked' substance you will need to have a Test Certificate for your location and Approved Handler(s) by **31 December 2004.** This date cannot be extended. A list of tracked substances is attached to this letter.
    b. If you store or use:
        i. more than 1800 litres (water capacity) of highly flammable (Class 2.1.1A) gases, such as LPG; or
        ii. more than a total of 50,000 litres of flammable liquids, such as petrol and mineral turpentine (Class 3.1B and 3.1C);

    you will need to have a Test Certificate for the Location and Approved Handler(s) by **31 December 2004** or **31 August 2005**, whichever is **earlier**. If you cannot meet this date, you must submit an implementation plan to ERMA New Zealand indicating when you can achieve compliance.

3. If your Dangerous Goods Licence was a provisional Licence, or if your operation has changed substantially in relation to your previous Licence, such as larger stock holdings, different substances, new location, change of owner, you will need a new Dangerous Goods Licence or a Test Certificate for the Location and Approved Handler(s) **immediately**. Refer to 'Getting a New Dangerous Goods Licence or Test Certificate' below.

Emergency Management, Identification and Packaging
For more details on these requirements refer to Dangerous Goods Dispatch - Issue Three (Mar 2004). A copy of this dispatch can be obtained from our website, or by either contacting 0800 376 234 or emailing 'dginfo@ermanz.govt.nz'.

Existing tank systems
If you have an **existing** stationary tank (now called a 'stationary container system'), you must engage a Test Certifier to undertake an assessment of the system by **31 March 2006**, and if not compliant, you must have an ERMA New Zealand approved compliance plan by **31 March 2007**.

In addition, your secondary containment system for the tank must be compliant by **31 March 2007,** or you must have an ERMA New Zealand approved compliance plan by **31 March 2007**.

Your Test Certifier may be able to help you with your compliance plans.

Getting a New Dangerous Goods Licence or Test Certificate

To obtain a new Dangerous Goods Licence or a Test Certificate, you will need to locate a Test Certifier with the correct approval to issue what you need. A list of Test Certifiers and their approvals can be obtained from our website, or by either contacting 0800 376 234 or emailing 'dginfo@ermanz.govt.nz'.

If you are not required to have a Test Certificate for your location by 31 March 2005, ERMA New Zealand will renew your Dangerous Goods Licence for you under the same terms and conditions as this years Licence. We will send you a letter during March 2005 to confirm this.

Test Certifiers are very busy so it is important that you contact one **now** to ensure you can obtain a Test Certificate for your Location and Approved Handler(s) before **31 August 2005**. It may help reduce your compliance costs if a Test Certifier can schedule your premise in with other people in your area.

> Note: If the Test Certificate for your location requires compliance with parts of the new HSNO regulations, then you must comply before you can be issued with a Test Certificate.

What to do if you can't comply by 31 August 2005

If you cannot get a Test Certificate for your location and Approved Handler(s) for your location in the time allowed, you need to provide ERMA New Zealand with an implementation plan before **31 August 2005**. To produce a plan, please work with:

- your wider organisation (if you have more than one site requiring a Test Certificate)
- an industry group or trade organisation, or
- a Test Certifier.

Once the plan is sent to us we will review it and approve it, if acceptable.

> Note: An Approved Handler must be 'available' before you can obtain a Test Certificate for your location. To find out more about Approved Handlers read our 'Quick Guide to becoming an Approved Handler' on our website or call 0800 376 234 for a copy to be posted to you.

Form Details

We have entered the following details into our system from your form. If they are not correct, please let us know by telephoning 0800 376 234 or by emailing 'dginfo@ermanz.govt.nz'. Make sure you quote your ERMA Reference number **4799** so we can be sure to find the correct record.

Licence Name:	Gore District Council (East Gore Treatment Plant)
Organisation:	Gore District Council
Physical Address: *(if different from your postal address above)*	Wentworth Street Gore Phone: Fax: Email:
Local Authority:	Gore District Council
ERMA Reference: **Old DG Reference:**	**4799** 2796
Contact Person: *(If recorded)*	Neil Jorgensen Phone: 03 208 9080 Fax: Email:

Contact

If you have any questions, please contact ERMA New Zealand on free phone 0800 376 234 or email 'dginfo@ermanz.govt.nz'.

Please note we may not be able to answer questions immediately. However we will get back to you as soon as we can.

Hazardous Substance Compliance Unit

Transfer of Substances

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO

ERMA New Zealand

Dangerous Goods and Scheduled Toxic Substances Requiring Approved Handler and Tracking Controls

This paper lists the dangerous goods (covering Class 2 Gases, Classes 3, 4 and 5 flammable liquids, flammable solids and oxidising substances, and petroleum products) and scheduled toxic substances (STSs) that are required to be under the control of an **approved handler** and **tracked**. Dangerous goods (DGs) and STSs were transferred to the Hazardous Substances and New Organisms (HSNO) Act in April 2004.

For further information on the full HSNO controls that apply to these substances, see: http://www.ermanz.govt.nz/hs/transfer-dangerous-goods.asp (DGs) and http://www.ermanz.govt.nz/hs/transfer-sch-toxic-subs.asp (STSs).

Classes 3,4,5 DGs and STSs

1,3-Butadiene, 2-methyl-
1-Butanamine
1-Hexanamine, 2-ethyl-
1-Pentanamine, N-pentyl-
1-Propanethiol
2-Propanamine
2-Propanol, 2-methyl-, aluminium salt
2-Propenenitrile
2-Propenoic acid, 2-methyl-, 2-propenyl ester
Acetaldehyde
Acetic acid, 2-propenyl ester
Acetic acid, chloro-, ethyl ester
Acetonitrile
Aluminate (1-), tetrahydro-, lithium, (T-4)-
Aluminate (1-), tetrahydro-, lithium, (T-4)-, ethereal
Aluminium phosphide
Aluminium pyrophoric
Aluminium, hydrobis(2-methylpropyl)-
Arsenic
Barium peroxide
Benzene
Benzene, 2,4-diisocyanato-1-methyl- (toluene diisocyanate)
Borane, triethyl-
Borate (1-), tetrahydro-, potassium
Borate (1-), tetrahydro-, sodium
Boron, trifluoro[oxybis[methane]]-, (T-4)-
Butane, 2-methyl-
Cadmium
Calcium carbide
Calcium hydride
Carbon disulfide
Chlorous acid, sodium salt
Chromic acid, diammonium salt
Chromic acid, dipotassium salt
Chromic acid, disodium salt, dihydrate
Chromic acid, disodium salt
Chromium oxide
Cyclohexanamine
Ethane, 1,1,2,2-tetrachloro-
Ethane, 1,1'-oxybis-
Ethaneperoxoic acid, 35-43% in acetic acid and hydrogen peroxide
Ethanethioic acid
Ethanethiol
Formaldehyde solution, >35% aqueous solution with 7-10% methanol
Formaldehyde, >25% aqueous solution, containing not more than 5% methanol
Formic acid, methyl ester
Furan
Hexane, 1,6-diisocyanato-
Hydrazine (anhydrous)
Hydrazine hydrate, or >37-64% aqueous solution
Hydrofluoric acid, >1-7% aqueous solution
Hydrofluoric acid, >60% aqueous solution
Hydrofluoric acid, >7-60% aqueous solution
Hydrogen peroxide, > 60% aqueous solution
Hydroperoxide, 1-methyl-1-phenylethyl 90-98%, cumene 2-10%
Lithium

Lithium hydride
Lithium, butyl-, 15% in hexane
Magnesium powder PG I
Metaldehyde (acetaldehyde homopolymer)
Methanamine, N,N-dimethyl-, 40-50% aqueous solution
Methane, isothiocyanato-
Morpholine
Nitric acid, >70%, other than red fuming
Nitric acid, red fuming
Nitric acid, cadmium salt
Oxirane, methyl-
Pentanedial (glutaraldehyde)
Perchloric acid (50% - 72% aqueous solution)
Periodic acid
Periodic acid, potassium salt
Periodic acid, sodium salt
Peroxide, dibenzoyl, ≥77% aqueous solution
Phenol
Phenol, 2,4,6-trinitro- (wetted with >30% water)
Phenol, 2,4-dinitro- (wetted with not less than 15% water by mass)
Phenol, 2,5-dinitro- (wetted with not less than 15% water by mass)
Phenol, 2,6-dinitro- (wetted with not less than 15% water by mass)
Phenol, 2-amino-4,6-dinitro-, monosodium salt, (wetted)
Phenol, methyl- mixed isomers (cresol)
Phosphorus, white, yellow, dry or in solution
Piperidine
Potassium
Potassium sulfide
Potassium superoxide
Propane, 2-chloro-
Propanenitrile, 2-methyl-
Rubidium
Sodium
Sodium hydride
Sodium hydrosulphide
Sodium peroxide
Strychnidin-10-one, 2,3-dimethoxy-
Sulphuric acid, fuming
Thiourea dioxide
Zinc phosphide
Zinc powder pyrophoric

Class 2 Gases

2-Propanone, 1,1,1,3,3,3-hexafluoro-
Borane, trifluoro-
Chlorine
Dinitrogen tetroxide [nitrogen dioxide]
Dinitrogen tetroxide and nitric oxide mixture [nitrogen dioxide and nitric oxide mixture]]
Ethylene oxide and carbon dioxide mixture, >87% ethylene oxide
Hydrogen sulfide
Nitric oxide
Nitrosyl chloride
Oxirane (ethylene oxide)
Phosgene

Petroleum products

Crude oils, extremely flammable
Aliphatic hydrocarbon solvents, very low flashpoint
Low aromatic hydrocarbon solvents, very low flashpoint
Medium aromatic hydrocarbon solvents, very low flashpoint

GORE DISTRICT COUNCIL

HAZARDOUS SUBSTANCES LICENCE

108

Gore District Council
P O Box 8
GORE

(East Gore Treatment Plant)

is hereby licensed to store the following classes and quantities of Hazardous Substances.

This Licence shall expire on the 31 day of March 2004

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

P.W Lark.

Hazardous Substances Inspector

592-2028-2190

GORE DISTRICT COUNCIL

29 CIVIC AVENUE
PO BOX 8, GORE
NEW ZEALAND

TELEPHONE (03) 208-9080
FACSIMILE (03) 208-9087
Email info@goredc.govt.nz

10 February 2003

Gore District Council (East Gore Treatment Plant)
P O Box 8
GORE

Dear Sir/Madam

RENEWAL OF HAZARDOUS SUBSTANCE LICENCE

Please find attached an application form for the renewal of your Hazardous Substance Licence for the 2003/2004 year.

An invoice for $112.50 is enclosed for the renewal of this licence.

The amount you have been invoiced for is based on the information provided by you at renewal time last year.

Please ensure that you fill out the attached form with the details from your current licence (making any alterations required) and return to the undersigned no later than Friday 14th March 2003.

If you have any queries, please feel free to contact me.

Yours faithfully

P.W York.

Peter York
ENVIRONMENT AND PLANNING MANAGER

Encl

Licence No. 3108

Renewal of
Hazardous Substance Licence
2003/2004

Gore District Council

PLEASE COMPLETE THE FOLLOWING DETAILS:

Licence Number: .....

Name of Applicant: .....

Postal Address for Licence: .....

Location of Site: .....
(give street number and name OR rapid number and road name)

Contact Person and Telephone Number: .....

No changes to classes and quantities stored. Licence can be issued with same details as last year.

☐ Tick box ✓

If there are changes to classes and quantities continue completing this form. ↓

Applicants Signature and Date: 20/3/03

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)					
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

PTO →

CLASS 3

	Classes of Dangerous Goods to be Stored					
	Class 3a (eg. Petrol)		Class 3b (eg. Kerosene)		Class 3c (eg. Diesel Fuel Oil)	
	Total Number of		Total Number of		Total Number of	
	Litres	Cntrs	Litres	Cntrs	Litres	Cntrs
(a) Underground Tanks						
(b) Above Ground Tanks						
(c) Mobile and Sledge type units						
(d) Drums						

CLASS 4

Name of Substance	Type of Container	Maximum Quantity Stored	Purpose

Please return this form together with payment to:

Gore District Council
29 Civic Avenue
P O Box 8
GORE

before
Friday 14th March 2003

PTO →

GORE DISTRICT COUNCIL

HAZARDOUS SUBSTANCES LICENCE

108

Gore District Council
P O Box 8
GORE

(East Gore Treatment Plant)

is hereby licensed to store the following classes and quantities of Hazardous Substances.

This Licence shall expire on the 31 day of March 2003

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

P.W Lark.

Hazardous Substances Inspector

RENEWAL OF
HAZARDOUS SUBSTANCE LICENCE
2002/2003

PLEASE COMPLETE THIS FORM WITH THE DETAILS FROM YOUR EXISTING LICENCE MAKING ANY CHANGES NECESSARY AND RETURN IT TOGETHER WITH THE RESPECTIVE FEE BY MONDAY 18th MARCH 2002

Licence Number: 108

Name of Applicant: MIRATA SERVICES

Postal Address for Licence: BOX 6, GORE

Location of Site: WENTWORTH STREET, GORE
(give street number and name OR rapid number and road name)

Contact Person and Telephone Number: A CLARK

PLEASE COMPLETE THIS SECTION & OVER THE PAGE

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925 kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

PTO →

SLD-2282-2002

GORE DISTRICT COUNCIL

CLASS 3

	Classes of Dangerous Goods to be Stored					
	Class 3a (eg. Petrol)		Class 3b (eg. Kerosene)		Class 3c (eg. Diesel Fuel Oil)	
	Total Number of		Total Number of		Total Number of	
	Litres	Cntrs	Litres	Cntrs	Litres	Cntrs
(a) Underground Tanks						
(b) Above Ground Tanks						
(c) Mobile and Sledge type units						
(d) Drums						

CLASS 4

Name of Substance	Type of Container	Maximum Quantity Stored	Purpose

1/2/02

Applicants Signature & Date

Please return this form together with payment to:

Gore District Council
29 Civic Avenue
P O Box 8
GORE

before
Monday 18th March 2002

GORE DISTRICT COUNCIL

HAZARDOUS SUBSTANCES LICENCE

108

Gore District Council
P O Box 8
GORE

(East Gore Treatment Plant)

is hereby licensed to store the following classes and quantities of Hazardous Substances.

This Licence shall expire on the 31 day of March 2002

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

P.W Lark.

Hazardous Substances Inspector

3108

GORE DISTRICT COUNCIL

29 CIVIC AVENUE
PO BOX 8, GORE
NEW ZEALAND

TELEPHONE (03) 208-9080
FACSIMILE (03) 208-9087
Email info@goredc.govt.nz

1 February 2001

Gore District Council
P O Box 8
GORE

Dear Sir/Madam East Gore Treatment Plant

RENEWAL OF HAZARDOUS SUBSTANCES LICENCE

Please find attached an application form for the renewal of your Hazardous Substance Licence for the 2001/2002 year.

An invoice for $112.50 is enclosed for the renewal of this licence.

You will note that the fee you have been charged is different from last year. The Dangerous Goods Regulations were amended last year. You are advised to carefully check the classes and quantities of hazardous substances stored are correct (these are listed on your licence). This may alter the amount you have been charged.

The amount you have been invoiced for is based on the information provided by you at renewal time last year.

All alterations must be advised in writing.

If you have any queries, please feel free to contact me.

Yours faithfully

P.W York.

Peter York
ENVIRONMENT AND PLANNING MANAGER

Encl

to complete the attached form and
return no later than
Tuesday 20th March 2001
to ensure your new licence/certificate is issued

RENEWAL OF
HAZARDOUS SUBSTANCE LICENCE
2001/2002

PLEASE COMPLETE THIS FORM WITH THE DETAILS FROM YOUR EXISTING LICENCE MAKING ANY CHANGES NECESSARY AND RETURN IT TOGETHER WITH THE RESPECTIVE FEE BY 20TH MARCH 2001

Licence Number: .....

Name of Applicant: .....

Postal Address for Licence: .....

Location of Site: .....
(give street number and name OR rapid number and road name)

Contact Person and Telephone Number: .....

PLEASE COMPLETE THIS SECTION & OVER THE PAGE

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)					
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

PTO →

Gore District Council

CLASS 3

	Classes of Dangerous Goods to be Stored					
	Class 3a (eg. Petrol)		Class 3b (eg. Kerosene)		Class 3c (eg. Diesel Fuel Oil)	
	Total Number of		Total Number of		Total Number of	
	Litres	Cntrs	Litres	Cntrs	Litres	Cntrs
(a) Underground Tanks						
(b) Above Ground Tanks						
(c) Mobile and Sledge type units						
(d) Drums						

CLASS 4

Name of Substance	Type of Container	Maximum Quantity Stored	Purpose

.....

Applicants Signature & Date

Please return this form together with payment to:

Gore District Council
29 Civic Avenue
P O Box 8
GORE

before
Tuesday 20th March 2001

Gore District Council

GORE DISTRICT COUNCIL

HAZARDOUS SUBSTANCES LICENCE

108

Gore District Council
P O Box 8
GORE

(East Gore Treatment Plant)

is hereby licensed to store the following classes and quantities of Hazardous Substances.

This Licence shall expire on the 31 day of March 2001

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

P.W York.

Hazardous Substances Inspector

$112-50

RENEWAL OF

HAZARDOUS SUBSTANCE LICENCE

PLEASE COMPLETE THIS FORM WITH THE DETAILS FROM YOUR EXISTING LICENCE MAKING ANY CHANGES NECESSARY AND RETURN IT TOGETHER WITH THE RESPECTIVE FEE BY 20TH MARCH 2000

Licence Number: 108

Name of Applicant: GDC – East Gore Treatment Plant

Postal Address for Licence: Box 8, Gore

Location of Site:

Contact Person and Telephone Number: J Braithwaite

PLEASE COMPLETE THIS SECTION & PAGE 2 ALSO

CLASS 2	Maximum Quantity Kept at Any One Time				
	In Cylinders (i.e. containers not exceeding 250 litres water capacity		In tanks (i.e. containers exceeding 250 litres water capacity)		Are tanks registered as pressure Vessels?
	Total Quantity	Total Number	Total Quantity	Total Number	
a) (i) Oxygen (not liquid) (Cubic Metres)					
b) Ethane, ethylene, hydrogen, methane, and any other flammable gas (other than c-g) (Cubic metres)					
c) Acetylene, compressed or dissolved, and contained within a porous substance (kg)					
d) Liquefied petroleum gas and any other liquefied flammable gas (kg)					
e) Chlorine (kg)	925kg	1			
f) Anhydrous ammonia (Litres)					
g) Liquid Oxygen (Gas equivalent - Cubic metres)					

PTO →

Gore District Council

CLASS 3

	Classes of Dangerous Goods to be Stored					
	Class 3a (eg. Petrol)		Class 3b (eg. Kerosene)		Class 3c (eg. Diesel Fuel Oil)	
	Total Number of		Total Number of		Total Number of	
	Litres	Cntrs	Litres	Cntrs	Litres	Cntrs
(a) Underground Tanks						
(b) Above Ground Tanks						
(c) Mobile and Sledge type units						
(d) Drums						

CLASS 4

Name of Substance	Type of Container	Maximum Quantity Stored	Purpose

.....

Applicants Signature & Date

Please return this form together with payment to:

Gore District Council
29 Civic Avenue
P O Box 8
GORE

before
Monday 20th March 2000

Gore District Council

Compliance & Certification Management Ltd

395 Miller Rd
RD1
OUTRAM 9073
Mob: 027 201 0600
Email: peter@ccmanagement.co.nz

HAZARDOUS SUBSTANCE LOCATION TEST CERTIFICATE

Issued pursuant to Section 82 of the Hazardous Substances and New Organisms Act 1996

Issued To: Gore District Council-
East Gore Water Treatment Plant

Certificate No: 000377-33820

Company Number:

GPS Co-ordinates:
-46.084949
168.941426

Customer Contact Details:
Gore District Council
Sarah Dowling
PO Box 8
Gore 9740

03- 2090330

Site Location:
Gore District Council
East Gore Water Treatment Plant
69 Wentworth Street
Gore 9749

03- 2090330

This certificate is issued in accordance with Regulation 81 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001. This certifies that the relevant requirements have been met for the locations, substances and the maximum quantities as specified below.

Substance:		**Maximum Quantity:**
Class 5.1.2A	Oxidising Gases: Chlorine - 1 x 920kg & 2 x 70 kg cylinders	1060kg

Conditions:
The substances specified above must be under the control of an approved handler where the relevant threshold quantities specified in the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 are exceeded.

Unless surrendered, revoked or becomes invalid beforehand, this certificate shall remain in force until the expiry date stated below, at which time it may be renewed by an authorised Test Certifier.

This certificate must be produced at the request of an Enforcement Officer appointed under the HSNO Act 1996.

Peter Menzies: *Peter Menzies*

Date Issued: 16th August, 2015

Test Certifier Registration 000377

Expiry Date: 15th August, 2016

Gore Water Treatment Plant - Planning Assessment

1 Background

Water treatment in Gore is currently carried out at two Water Treatment Plants (WTPs), Wentworth St/East Gore WTP and Hilbre Ave/West Gore WTP.

Treated water quality currently does not meet the Drinking Water Standards for New Zealand 2005 (DWSNZ) and under the Health Act, Gore District Council (GDC) is required to upgrade their WTPs to achieve compliance.

In order to rectify the current situation to achieve compliance with the DWSNZ, Beca Ltd (Beca) have been engaged to assess options to upgrade the existing systems. It has been identified that the Hilbre Ave/West Gore WTP will be decommissioned but the reservoir will remain, and that the Wentworth St WTP will be upgraded. The upgrade will result in the water treatment plant processing 6000 m^3/d with the design allowing the plant to expand to 8000 m^3/d in the future.

2 Purpose

This planning assessment identifies any resource consent requirements under the Southland Regional Plan for the discharge of overflows to the wastewater and stormwater reticulated systems (the relevant matters which might trigger a regional resource consent), and under the Operative Gore District Plan for extension of the existing Wentworth St WTP.

The design information used to undertake this planning assessment is:

- Preliminary Design Report and appended plans prepared by Beca dated 20 August 2018.

3 Summary

3.1 RMA Approvals from Gore District Council

A resource consent under the Operative Gore District Plan for a discretionary activity would be required to extend the WTP. Whether this consent would be notified or not (limited or public), is reliant on an assessment of the actual and potential effects being undertaken along with a determination by the Regulatory side of Gore District Council. However, we note that a WTP is a discretionary activity on this site, and therefore it is not a contemplated activity given the residential zoning, and therefore there is a good chance that an application would be notified unless it could be agreed that any adverse effects are less than minor or minor, and any party who is deemed to be adversely affected has given its written approval.

Given that an extension to the existing WTP is proposed, and that there could be a further reservoir on the site in future, the Council should consider further whether or not to designate the site for WTP purposes, encompassing in that designation application the current and future development. While a designation application is notified (limited or public), it would remove the need in future to obtain further resource consents for future development, which could also be notified. Instead an Outline Plan process (not subject to public input) would be undertaken.

A weighting exercise between the risk of notification (resource consent vs designation) and short and long term costs. Further to the provision of this planning assessment, and once further details are known, we would be happy to provide an analysis that sets out the pros and cons including risks of resource consent versus designation process to assist in Councils decision making.

3.2 RMA Approvals from Southland Regional Council

Gore District Council holds a global resource consent (ref Auth-206303) for the discharge of stormwater to the reticulated system. Southland Regional Council has confirmed that this is valid for the Gore Township including the WTP operation and the proposed stormwater discharge works. Therefore no further resource consent is required for stormwater discharge.

The disposal of wastewater to the reticulated system doesn't require resource consent as long as the discharges to either land or water directly from this system or the WWTP are consented. Additionally, a resource consent would not be required as long as there is capacity in the existing system for this additional wastewater discharge and that any resource consents that Gore District Council currently holds do not have conditions around capacity constraints.

4 Site Context

The site is located on Wentworth St, East Gore and is located within the Residential A zone of the Gore District Plan. The site is not subject to any policy overlays. Figure 1 below illustrates the site location and zoning.

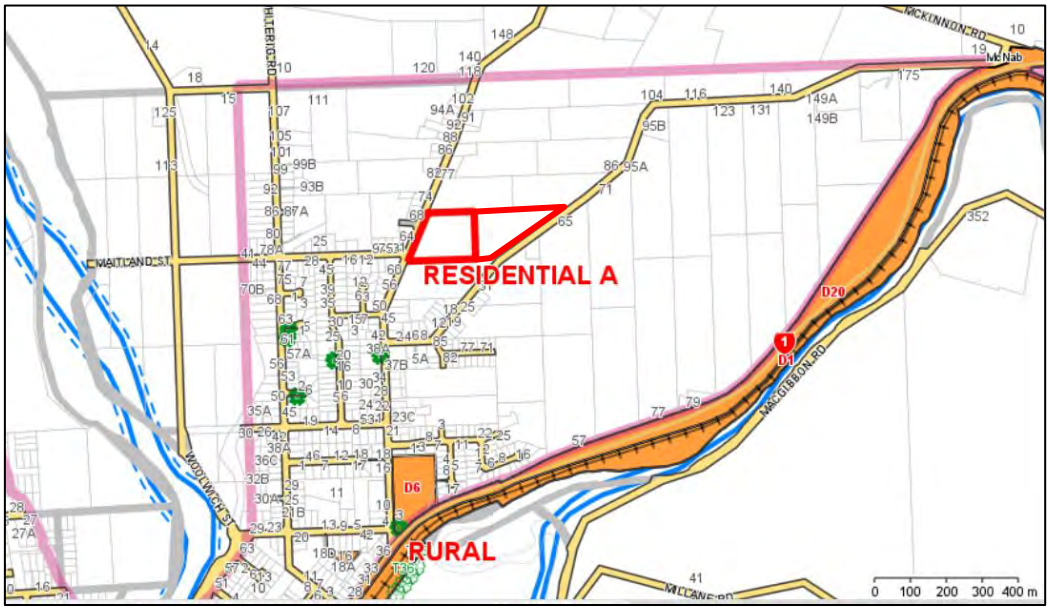


Figure 1: Zone Map and Location

Figure 2 below illustrates the Gore District Council utilities that are within and adjacent to the property.

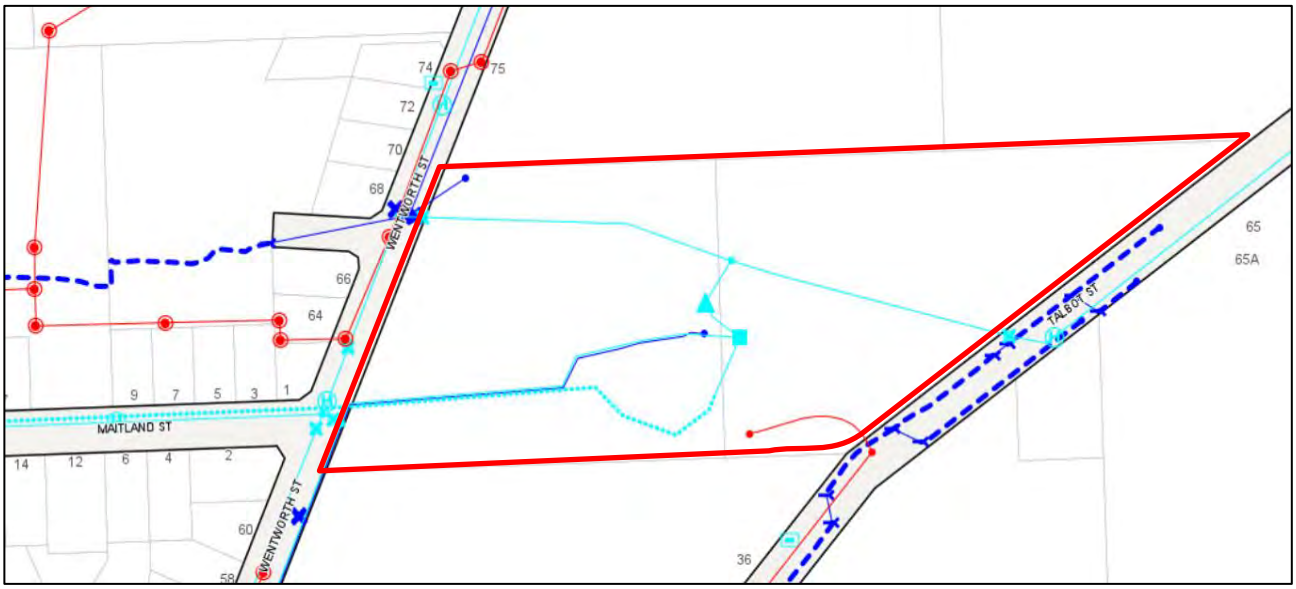


Figure 2: Utilities Plan

5 Resource Consent Requirements

5.1 Southland Regional Council

The water treatment process results in wastewater disposal and overflows from and to the following systems:

- Flocculation tank – to the reticulated sewer;
- Wastewater tank from filter backwash activity – to reticulated sewer (High lever overflow to stormwater);
- Reservoir – treated, chlorinated water to stormwater;
- Coagulant dosing tank – to stormwater; and
- Caustic doing tank – to stormwater

It has been confirmed by Southland Regional Council[1] that a global resource consent (ref Auth-206303) held by Gore District Council for the discharge of stormwater to the reticulated system is valid for the Gore Township including the WTP operation. Therefore the above stormwater matters are covered under this global resource consent.

The disposal of wastewater to the reticulated system doesn't require resource consent as long as the discharges to either land or water directly from this system or the WWTP are consented.

[1] In a telephone conversation between Beca and the consents planner at Southland Regional Council on Thursday 20 September 2018 date.

Additionally, a resource consent would not be required as long as there is capacity in the existing system for this additional wastewater discharge and that any resource consents that Gore District Council currently holds do not have conditions around capacity constraints.

5.2 Gore District Council

5.2.1 Resource Consent Requirements

The site is located within the Residential A zone of the Gore District Plan, and pursuant to Rule 4.2.1 (2), WTP's are not provided for as a Permitted activity in this zone. Rule 4.2.4 states that any activity not provided for as a Permitted, Controlled or Restricted Discretionary, Non-Complying or a Prohibited activity are Discretionary activities. As a WTP is not listed as a Non-Complying or Prohibited activity, it would be a Discretionary activity.

We have not searched Gore District Council records to confirm whether the existing WTP was established by way of a resource consent (post 1991) or a planning approval under the Town and Country Planning Act (pre 1991). If a planning approval does not exist, the WTP may be lawfully established through existing use rights. However, any extension or change to the existing WTP would necessitate a new Discretionary activity resource consent as any existing planning approval would not likely be valid for the changes, and any existing use rights would likely be lost.

This means that a resource consent for a Discretionary activity would be required for the extension of the WTP.

As part of that resource consent application the following built form standards would apply and where possible need to be complied with in order to not trigger additional reasons for consent:

Rule	Provision
▪ Rule 4.5 Noise	Noise limits in rural and residential zones On any day: 7.00 a.m. to 10.00 p.m. 55 dBA Leq 10.00 p.m. to 7.00 a.m. 40 dBA Leq 10.00 p.m. to 7.00 a.m. 75dBA Lmax Measured: Residential zones at any point in any other site.
▪ Rule 4.8 Height	Residential Zones – 8m maximum height
▪ Rule 4.9 Site Coverage	Site Coverage for Residential Zone – 40%
▪ Rule 6.1 – Storage of Hazardous Substances	It is a permitted activity to store or use hazardous substances provided that the quantities in storage or use do not exceed the amounts specified in Table 6.2. Oxidising Substances – Industrial – 2,000 kg Poisonous Substances – Industrial – 1,000kg

The notification status (non-notified, limited or public) of a Discretionary resource consent application cannot be determined until final design has been confirmed, an assessment of the actual and potential effects on the environment undertaken, and a determination made by Council as Regulatory Authority. . However, given a WTP is not a residential activity, and therefore not anticipated on the site, it is possible that the application would be limited or publicly notified unless it could be agreed that any adverse effects are less than minor or minor, and any party who is deemed to be adversely affected has given its written approval.

5.2.2 Designation

A designation is an alternative RMA approval to a resource consent. As a Local Authority the Council has the ability to designate as a Requiring Authority the WTP under the District Plan. We note that currently the site is not designated by the Council for WTP purposes.

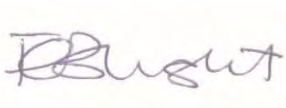
A designation is a form of 'spot zoning' over a site in a district plan. The 'spot zoning' authorises the Requiring Authority's work and activity on the site without the need for land use consent under the District Plan. A designation does not negate the need to obtain any resource consents from a regional authority, in this case Southland Regional Council. A designation has a similar effect to a plan change establishing a permitted activity as it:

- identifies the land affected in the district plan
- enables a Requiring Authority to undertake the works within the designated area without the need for a land use consent
- sets the parameters under which the activity can occur.

Different to a resource consent, a designation allows for future development to be included removing the need for future resource consents. A designation is a notified process (limited or public). However, a resource consent for the works as stated above could also likely be a notified process. The Council should consider given potential future development on the site whether designating the WTP would be more advantageous over a resource consent that would only authorise the current works. A weighting exercise between the risk of notification and short and long term costs should be undertaken. Further to the provision of this advice, and once further details were known, we would be happy to provide an analysis that sets out the pros and cons including risks or each option to assist in Councils decision making.

6 Future Reservoir

Should a future reservoir be established at the Wentworth St WTP a Discretionary resource consent will be required under the Gore District Plan pursuant to the rules outlined above. Alternatively, if the site is designated then a resource consent application would not be required but rather an outline plan.



Alisha Robinson

Senior Planner

Fiona Blight

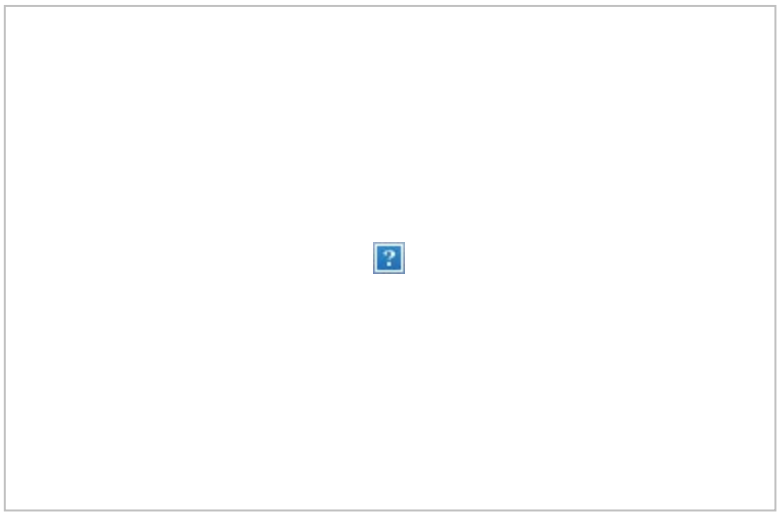
Technical Director – Planning

From: Bridget Sim
To: Jo Skuse
Subject: RE: Water supply infrastructure
Date: Thursday, 21 September 2023 9:22:13 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.jpg
image006.png
image007.png
0.jpg
1.png

Ok ‘ve just asked Matt to send through the relevant documents. He’s going to talk to you at some point too as I don’t think it’s a straightforward answer. Let me know if you haven’t gotten anything by the end of the day and I’ll chase him up.

Just had a look at Rules and the only rule I think that it would fall under would be 7.9(8) ‘Other Utilities’. But it states that if any structure is greater than 6m2 in the residential zone it is a restricted discretionary activity.

And general rules:



Thanks

Bridget Sim | Graduate Planner
T: 03 209 0330 | **DDI:** 03 748 0554 | **M:** 021 793 438
E: bsim@goredc.govt.nz | **W:** www.goredc.govt.nz
Gore District Council, 29 Bowler Avenue, PO Box 8, Gore, 9740

From: Jo Skuse <jskuse@propertygroup.co.nz>

Sent: Wednesday, September 20, 2023 4:59 PM
To: Bridget Sim <bsim@goredc.govt.nz>
Subject: RE: Water supply infrastructure

Can you ask Matt about the Beca report relating to the upgrades?

I'm worried they don't have consent. Can you check the district plan utilities to chapter to see if it permits the building and check with Matt when it was first established? Maybe the previous plan permitted it…

Jo Skuse
Senior Planner

TPG-Logo-white

Mobile: 027 498 1745
Reception: 03 363 5901

Level 3 / Five Mile Centre, 36 Grant Road, Frankton, Queenstown 9371
PO Box 2130, Queenstown 9371
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Our office locations: Whangarei | Auckland | Hamilton | Tauranga | New Plymouth Napier | Palmerston North | Wellington | Nelson | Christchurch | Dunedin | Queenstown

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From: Bridget Sim <bsim@goredc.govt.nz>
Sent: Wednesday, September 20, 2023 4:44 PM
To: Jo Skuse <jskuse@propertygroup.co.nz>
Subject: RE: Water supply infrastructure

So it doesn't come up with a consent number or anything on the property search …. Hopefully that report was helpful

---

Bridget Sim | Graduate Planner
T: 03 209 0330 | **DDI:** 03 748 0554 | **M:** 021 793 438
E: bsim@goredc.govt.nz | **W:** www.goredc.govt.nz
Gore District Council, 29 Bowler Avenue, PO Box 8, Gore, 9740

Gore DC logo

From: Jo Skuse <jskuse@propertygroup.co.nz>
Sent: Wednesday, September 20, 2023 4:30 PM
To: Bridget Sim <bsim@goredc.govt.nz>
Subject: RE: Water supply infrastructure

Yeah the planner just emailed me asking for the consents …

Jo Skuse
Senior Planner

TPG-Logo-white

Mobile: 027 498 1745
Reception: 03 363 5901

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PO Box 2130, Queenstown 9371
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From: Bridget Sim <bsim@goredc.govt.nz>
Sent: Wednesday, September 20, 2023 4:28 PM
To: Jo Skuse <jskuse@propertygroup.co.nz>
Subject: RE: Water supply infrastructure

Is this for Talbot street meeting we had?

Bridget Sim | Graduate Planner
T: 03 209 0330 | **DDI:** 03 748 0554 | **M:** 021 793 438
E: bsim@goredc.govt.nz | **W:** www.goredc.govt.nz
Gore District Council, 29 Bowler Avenue, PO Box 8, Gore, 9740

Gore DC logo

Hokonui Culture Feast

From: Jo Skuse <jskuse@propertygroup.co.nz>
Sent: Wednesday, September 20, 2023 4:23 PM
To: Bridget Sim <bsim@goredc.govt.nz>
Subject: Water supply infrastructure

Hey

Have you located any consents for the water supply site? Matt said there was a Beca report which may be helpful?

Thanks
Jo

Jo Skuse
Senior Planner

TPG-Logo-white

Mobile: 027 498 1745
Reception: 03 363 5901

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Napier | Palmerston North | Wellington | Nelson | Christchurch | Dunedin | Queenstown

Notice of Rating Valuation

by the: **GORE DISTRICT COUNCIL**

Gore District Council*
P O Box 8
Gore 9700

Please quote Valuation Reference
29760/30700
in all correspondence

Local authorities use information contained in the district valuation roll to set rates. This notice details information on your property that is contained in the district valuation roll of Gore District Council. The Rating Valuations Act 1998 obliges councils to maintain the valuation rolls but allows them to choose their valuation service provider.

The Valuer-General regulates the maintenance of district valuation rolls to ensure that they meet the minimum standards set out in the Rating Valuations Act 1998, the Rating Valuations Regulations 1998, and the Rating Valuations Rules.

An owner or ratepayer (if different) may object to any information contained in a notice of valuation within the time and in the manner specified in regulations made under the Rating Valuations Act 1998. If you object to a value that is a component of your valuation, the Gore District Council will review that value, and may also review any other value components of the rating unit, i.e. land value, value of improvements, capital value, or annual value.

This notice has been issued as a result of a **General Revaluation**. Gore District Council has contracted Quotable Value Limited to carry out this work. If you wish to discuss this rating valuation call toll free on 0800 787 284 or write to QV, Private Bag 39818, Wellington Mail Centre, Lower Hutt 5045 or fax (04) 576 4486.

Rating Unit Value *(as at 1 August 2013, being the Gore District Council latest revaluation date)*

Land Value	$280,000
Value of Improvements	$640,000
Capital Value	**$920,000**

Rating Unit Details For 69 Wentworth Street

Ratepayer's Name(s)	Gore District Council*
Nature of Improvements	Fencing, Other Buildings
Area of Land	4.1809 hectares
Legal Description	SECS 10 11 & CLOSED ROAD BLK XXIV EAST GORE TOWN
Certificate(s) of Title	SLA2/1008

Objections must be lodged in writing no later than **15 November 2013**.
Please refer overleaf for details on the objection procedure or to lodge online visit our website at www.qv.co.nz

1000017

Customer Charge Breakdown

Work Order # **363527** **Gore District Council, - 69 Wentworth Street, Gore - New Water Treatment Plant Supply**

	Item Description	PowerNet Cost	Customer Portion
MATERIALS			
	11kV Lines	-	$1,678.33
	11kV Switch	-	$16,171.28
	11kV Cable	-	$6,607.20
	11kV Cable Termination Earth	-	$1,315.98
	Transfomer	$48,258.24	-
	Transfomer	-	$1,399.33
	Transformer Earth	-	$1,314.56
	ICP Connection	-	$183.53
	LV Overhead	-	$2,204.98
	MATERIALS Total	**$48,258.24**	**$30,875.19**
SERVICES			
	11kV Lines	-	$4,956.97
	11kV Switch	-	$1,778.55
	11kV Fuse	-	$94.13
	11kV Cable	-	$5,747.51
	11kV Cable Termination Earth	-	$10,864.77
	Transfomer	-	$1,506.12
	Transformer Earth	-	$1,180.41
	ICP Connection	-	$753.06
	LV Overhead	-	$2,266.99
	SERVICES Total	**-**	**$29,148.51**
SUMMARY	**TOTALS**	**$48,258.24**	**$60,023.70**

Total Cost of the Job (excl GST)	**$108,281.96**
Customer Portion	**$60023.72**
Less Network Contribution for Connection	**-**
Customer Contribution to Network Extension	**$60,023.72**
New Connection Administration Fee	**$126.96**
Total Payable by Customer (excl GST)	**$60,150.68**

PowerNet Limited
251 Racecourse Road, PO Box 1642,
Invercargill 9840, New Zealand
P: 03 211 1899
F: 03 211 1880
E: enquiries@powernet.co.nz

Reference: 363526 / 363527
Application #: PNAP2759

26 January 2021

Gore District Council
P O Box 8
Gore
9710

Dear Sir / Madam

Gore District Council, - 69 Wentworth Street, Gore - New Water Treatment Plant Supply

Thank you for your installation connection application for an electricity connection at 69 Wentworth Steet Gore , at a supply capacity of 300 kVA 3 phase.

There will be a one off charge to provide your power supply. Although we ask for this payment towards our network costs, we retain ownership of all lines on the road, and any high voltage line on your property. We also retain ownership of any transformers installed on the road or in your property. We will be responsible for the maintenance of these lines and transformers.

Our proposal is outlined in the attached plan, if there is any deviation from this there may be additional charges. The installation of the low voltage cable to your building(s) from the transformer on your property is your responsibility. This is normally carried out by your electrician and must be in place for our contractors to connect to the transformer at the same time as the remainder of the work is completed.

The following charges from PowerNet will apply:

PowerNet Network	$60,023.72
Administration Fee	$126.96
Total Payable (excl GST)	$60,150.68
GST	$9,022.60
Total Payable (incl GST)	**$69,173.28**

A 50.00% deposit of $34,586.64 including GST is required with your formal acceptance on the attached reply letter, prior to work commencing **(Make cheques payable to PowerNet Limited)**. On receipt of your deposit we will send you a GST Invoice for your records. The balance of charges will be invoiced on completion of the works.

Our quote is valid for thirty days. If your supply is initially a temporary set up for your builder there will be an extra charge to make it permanent. You may also have further charges if power is not used within three months.

As the underground cable and equipment for this connection are located on private property this quotation is subject to approval for the work, and agreement to an electrical easement over each property and its registration on the Certificate of Title to this land.

This reticulation requires an easement in gross registered in favour of the network owner TPC. For that reason we advise the following:

- You must arrange for and meet the costs of a survey plan, preparation and registration of a transfer document for the easement.
- It is a requirement that once the survey plan has been prepared by the surveyor and the plan layout approved by the Network Easement Coordinator, the easement documentation must be prepared by our solicitors AWS Legal, at your cost. You will need to contact your own solicitor to provide you with any necessary legal advice and to act on your behalf in this matter.
- The easement document must be signed by the land owner and returned to PowerNet. This will then be lodged by our solicitors, AWS Legal, with Land Information New Zealand (LINZ) prior to connection of the new supply to the network.
- Should you wish to clarify or discuss the method for obtaining an easement you should contact our Network Easement Coordinator who will be happy to guide you through the process. Phone 03 419 0177 or email enquiries@powernet.co.nz.

We cannot accept any easement that is conditional on the continued payment of any periodic fees or subject to annual or ongoing reviews.

If you wish to go ahead with this proposal please sign the reply letter and return this to us along with the deposit as confirmation of your agreement to the charges.

When we receive the above we will arrange the work required, and do our best to meet your required timing. (Should the work be subsequently altered or cancelled by you there may be other charges to recover costs incurred).

On completion of our line work an invoice for the balance of charges will be sent to the same name and address as this letter, please let us know if these details change.

If you have any queries about our offer, please contact on 03 211 1890.

Yours faithfully

Richard Lee
Distribution Services Manager (West)

Encl: Reply Letter
Proposed Plan

Reference: 363526 / 363527

Gore District Council
P O Box 8
Gore
9710

PowerNet Limited
PO Box 1642
Invercargill 9840
New Zealand

Attention: Richard Lee

GORE DISTRICT **COUNCIL, - 69 WENTWORTH STREET, GORE - NEW WATER TREATMENT PLANT SUPPLY**

In reply to your letter of 27 January 2021:

- I wish to proceed with the work as detailed, and agree to pay PowerNet Limited the total sum of **$69,173.28** including GST.
- My deposit of **$34,586.64** is attached. (Make cheques payable to PowerNet Limited or this can also be paid electronically using the following details:

  PowerNet Limited, Acct No. 06-0925-0251901-00. Reference: 363526 / 363527)
- I accept that ownership of the completed line work will be PowerNet Limited
- I confirm I require a supply capacity of **300 kVA** 3 phase.
- I agree to forward the completed Easement Agreement to PowerNet, and agree to undertake all tasks necessary to permit PowerNet to secure the easement. I accept responsibility for all costs incurred by this process. I acknowledge the electricity supply will not be livened until the easement process has been completed to the stage of being lodged with LINZ.
- I acknowledge that payment in full is due on the 20th of the month following receipt of PowerNet's invoice. I acknowledge that should I fail to pay the amount owing in full within the required time, PowerNet reserves the right to charge interest at a rate of 12% per annum. I further acknowledge that I will be liable for any additional costs incurred, including but not limited to collection fees, legal costs and court fees.

(PowerNet offer is valid for 30 days from 27 January 2021)

Signed _____ Date _____

Gore District Council

Christchurch Head Office	Wellington	Hamilton	Auckland
PO Box 28147, Beckenham, Unit 24, 105 Bamford Street, Woolston, Christchurch **Tel**: 03 384 8966 **Mobile**: 0274 33 78 72 **Email**: info@k2.co.nz	5/408 Hutt Road Alicetown, Lower Hutt 5010 **Mobile** 027 533 7872 **Email** info@k2.co.nz	37 Lake Road Frankton, Hamilton 3204 **Mobile** 027 233 7874 **Email** info@k2.co.nz	Unit 23, 203 Kirkbride Road, Airport Oaks, Auckland 2022 **Tel**: 09 275 1261 **Mobile** 0276758223 **Email**: info@k2.co.nz

Gore District Council
Asbestos Management Plan

Water Treatment Building
69 Wentworth Street, Gore

Site Assessment Date	**10th April 2019**
Surveyed By	**Beth Mather (BSc, IP402)**
Report Author	**Ben Dodd (BA, IP402)**
Key Technical Person	**Beth Mather (BSc, IP402)**

Author Signature	KTP Signature
	

TABLE OF CONTENTS

INDEX OF TABLES AND FIGURES

Document Version History		
Version No.	**Notes**	**Date of Issue**
1	Initial asbestos management plan	6/05/2019

1 OVERVIEW

1.1 Purpose

This Asbestos Management Plan assesses the risk from asbestos-containing materials (ACMs) at 69 Wentworth Street, Gore and sets out actions to be taken to manage them in accordance with the Health and Safety at Work (Asbestos) Regulations 2016.

1.2 Background

- An asbestos management survey was conducted by Beth Mather (AA16100161) on the 10th April 2019
- Asbestos was identified in the exterior insulation board cladding and presumed to be present in the cement sheet gables, gaskets, electrical components and Bakelite items

1.3 Risk to Health

- The identified and presumed asbestos-containing materials do not pose an immediate risk to health
- Technicians working on the generator or electrical components could be exposed to asbestos if they disturb any asbestos-containing materials during maintenance

2 ASBESTOS REGISTER

2.1 Identified and Presumed Asbestos

See the Risk Management section (p. 3) for suggested actions. See the Definitions appendix (p. 13) for more information on terms used in this table.

Room/Area	Item	Material	Extent	Access.	Sample	Asbestos Result	Material Risk	Priority Risk	Total Risk
Main room	Pipework/ machinery seals	Gaskets	Potentially in pipework	Difficult	-	**Presumed**	Low	Low	Low (11)
Generator, caustic and hazchem rooms	Pipework/ machinery seals	Gaskets	Potentially in pipework	Difficult	-	**Presumed**	Low	Low	Low (11)
	Generator components	Electrical components	Potentially in generator	Medium	-	**Presumed**	Low	Low	Low (11)
Main room	Fuses	Bakelite	Some fuses	Easy	-	**Presumed**	Very low	Low	Low (9)
Exterior	Gables	Cement sheet	All gables (10m^2)	Medium	-	**Presumed**	Low	Very low	Low (8)
	Cladding	Insulation board	Part of cladding (50m^2)	Easy	2	**Chrysotile asbestos**	Very low	Low	Low (8)
Bathroom	Toilet seat	Bakelite	Toilet seat only	Easy	-	**Presumed**	Very low	Very low	Very low (7)

3 RISK MANAGEMENT

WorkSafe NZ's Summary of Asbestos Management Options provides detailed information on the advantages and disadvantages of management options, and where these options are most appropriate.[1]

3.1 Training, Inductions and Labelling

- Train and induct any employees or occupants of the risk
  - An asbestos awareness course is recommended training for all people that are on site full time
  - Any person coming on site to work must be inducted and be aware of the hazard
- Warning labels must be placed on all identified and presumed ACMs

3.2 Deferral

- The identified and presumed ACMs do not pose an immediate risk and can be managed in situ
- Periodic inspection of the materials should be scheduled to ensure the risk of asbestos exposure remains negligible
- The materials should be clearly labelled and anyone working near the area should be informed of the hazard
- The materials should be tested for asbestos prior to removal and any refurbishment or maintenance work that may damage or disturb the material

[1] https://worksafe.govt.nz/dmsdocument/3094-table-6-summary-of-asbestos-management-options

4 RECOMMENDED ACTION SUMMARY

Action	Location	Frequency	Action Date
Health Monitoring	For all workers who have the potential to be, or have been, exposed to asbestos	Refer to Section 7.3 for WorkSafe's recommended health monitoring schedule	May 2019; review for any new employees
Induction and Training	For any persons entering the building	Training for full-time workers on site; inductions for any persons entering site to work	May 2019; continue inductions and training for new employees
Signage	Labels on any identified or presumed ACMs	N/A	May 2019
Testing of Presumed ACMs	All presumed ACMs	N/A	Prior to removal or any refurbishment or maintenance that may damage or disturb the material
Assess Condition of ACMs	All identified and presumed ACMs	Two-yearly	May 2021
Asbestos Management Plan Review	N/A	Five-yearly	May 2024

5 ASBESTOS EMERGENCY PROCEDURE

A workplace asbestos emergency occurs when:

1. Asbestos is present
2. A structure or plant is structurally unsound
3. And the collapse of the structure is imminent

In the event of an ***asbestos emergency***:

- Immediately evacuate the area
- Suspected contaminated or exposed persons will need to be decontaminated at a nearby location, away from airborne asbestos
- Wiping, wetting, washing; outer layers of clothes need to be bagged and stay on-site
- Get appropriate phone support to contain event (WorkSafe, Removalist, Assessors)
- If any person does find themselves with breathing difficulties (any type of dust can cause this) they are to seek medical aid as soon as possible
- Determine the extent of contamination and contract clean up by asbestos professionals
- Air monitoring and investigation required
- Review and amend management plan to meet the new site conditions, update incidents

6 ASBESTOS INCIDENT PROCEDURE

A workplace asbestos incident occurs when exposure or potential exposure to asbestos is expected be high.

6.1 Incident Examples

- Sweeping up, using forced air or vacuuming[2] ACD
- Significant vibration or earthquakes
- Any time it is reasonably suspected that there are higher than trace levels of asbestos in the air
    - Investigate with air monitoring
    - If air monitoring exceeds 0.02 fibres per litre, WorkSafe must be notified

In the event of an ***asbestos incident*** including presumed asbestos incidents:

- Contain incident
- Move people away from incident area
- Restrict access to the area until assessed
- Decontaminate persons who may have been exposed
- Assess what is to be done about the incident (dust suppression, clean up)
- Restrict access to the airspace, air monitoring may be required
- Update the asbestos incident log

The site needs to have

- Appropriate and fitted asbestos PPE available
- The ability and facility to decontaminate persons
- Labelling of asbestos hazards
- Induction about asbestos hazards
- Asbestos related exposure and incidents must be recorded

6.2 Personal Decontamination

If contamination via an asbestos event is possible, the site needs to be able to decontaminate persons.

- The facility to safely decontaminate on site should be available
- Dust suppression: spray bottles filled with water, wet-wipes, appropriate temporary storage for contaminated items and asbestos waste

[2] ACD must never be vacuumed with a device that does not carry an H Class label

6.3 Asbestos-Related Accidents, Incidents and Emergencies Log

Accident, Incident or Emergency	Date

7 TRAINING AND HEALTH MONITORING

7.1 Training

- All workers in this area are working in an asbestos-containing environment and must be educated and trained about the asbestos hazard unless it is eliminated.
- Workers need to be aware of and be trained how to respond and act appropriately to their site-specific asbestos hazards.
- Workers need to be familiar with the procedures for asbestos-related incidents and emergencies

7.2 Roles and Responsibilities

- Workers trained in the asbestos risk have the responsibility to avoid anything that may result in asbestos fibres being released to the air.
- Update the incident and emergency log as necessary.

7.3 Health Monitoring

- Workers who have the potential to be or have been exposed to asbestos should undergo asbestos industry standard health monitoring.
- Workers occupying the environment who have not been exposed to elevated levels of asbestos fibres do not need to have health monitoring undertaken. An occupational health professional should be consulted if there is any doubt about who needs an asbestos medical.
- The following schedule is recommended by WorkSafe for those engaged in ongoing asbestos-related work who are at risk of exposure to airborne asbestos when doing that work[3]:

Years after starting employment with the PCBU	Procedure
1	Full asbestos medical
5	Full asbestos medical
10	Full asbestos medical
15	Full asbestos medical
18	Full asbestos medical
20	Full asbestos medical

[3] WorkSafe NZ, *Approved Code of Practice: Management and Removal of Asbestos, Section 16.6.1*, Nov 2016

8 ROLES AND RESPONSIBILITIES

The delegated representatives at Gore District Council will:

- Oversee carrying out the asbestos management plan and updating it as required
- Keep an asbestos register and incidents log
- Eliminate or minimise asbestos exposure as far as is reasonably practicable

8.1 Reviewing the Asbestos Management Plan

The workplace PCBU must review and (if necessary) revise the asbestos management plan every five years or when:

- Asbestos controls are reviewed
- Asbestos is removed, disturbed, sealed or enclosed
- The plan is no longer adequate for managing the asbestos risks, for example if new asbestos is identified, or if a previous inaccessible area is now accessible.

In addition, a representative for workers at a workplace may request a review of an asbestos management plan if the representative reasonably believes that:

- Any of the previously noted situations affects, or may affect, the health and safety of a member of the work group being represented, and
- The workplace PCBU has not adequately reviewed the asbestos management plan in relation to the situation.

All previous versions of the management plan should be kept.

8.2 Accessing the Asbestos Management Plan

The workplace PCBU must make sure a copy of the asbestos management plan is readily accessible and should keep one at the workplace. In particular, the PCBU must make a copy of the asbestos management plan available to:

- Workers who have worked, are working, or plan to work at the workplace, and their representatives
- Any PCBU who has worked, is working, or plans to work at the workplace
- Any PCBU who required, requires or intends or to require work to be carried out at the workplace.

8.3 People with Responsibilities Under the Plan

- A minimum of two people are required to manage the asbestos hazard.
    - This allows the plan to be overseen if one person is not available
    - They are to be named in the asbestos management plan
    - They can be replaced if information is transferred
    - Their replacement's names should be added in writing to the on-site plan.
- Gore District Council has a responsibility to manage the asbestos at this location
- Roles and responsibilities are to be agreed on and delegated between parties

8.4 Roles Required.

- Actioning asbestos management plan
- Updating asbestos management plan
- Recording (asbestos-related incidents and/or emergencies)

An employee can have more than one role, however, a minimum of two people need to be able to understand and action the asbestos management plan.

8.5 Role Log

Responsibilities	Employee Name	PCBU represented	Contact Details	Date assumed responsibility of role	Signature
Tenant/Employer		Gore District Council		May 2019	
Building owner		Gore District Council		May 2019	
Asbestos consultant to Gore District Council	Stuart Keer-Keer	K2 Environmental	027 533 7872	May 2019	

Role Transfer	Employee transferring responsibility	Employee accepting responsibility	Knowledge transfer Does all the information about the asbestos hazard remain with the PCBU's **(yes/no)**	Date

9 SITE MAP

***Note**: This map is not to scale and is to be used as an indication only. The extent of some materials has been omitted for clarity. Numbers refer to sample numbers.*

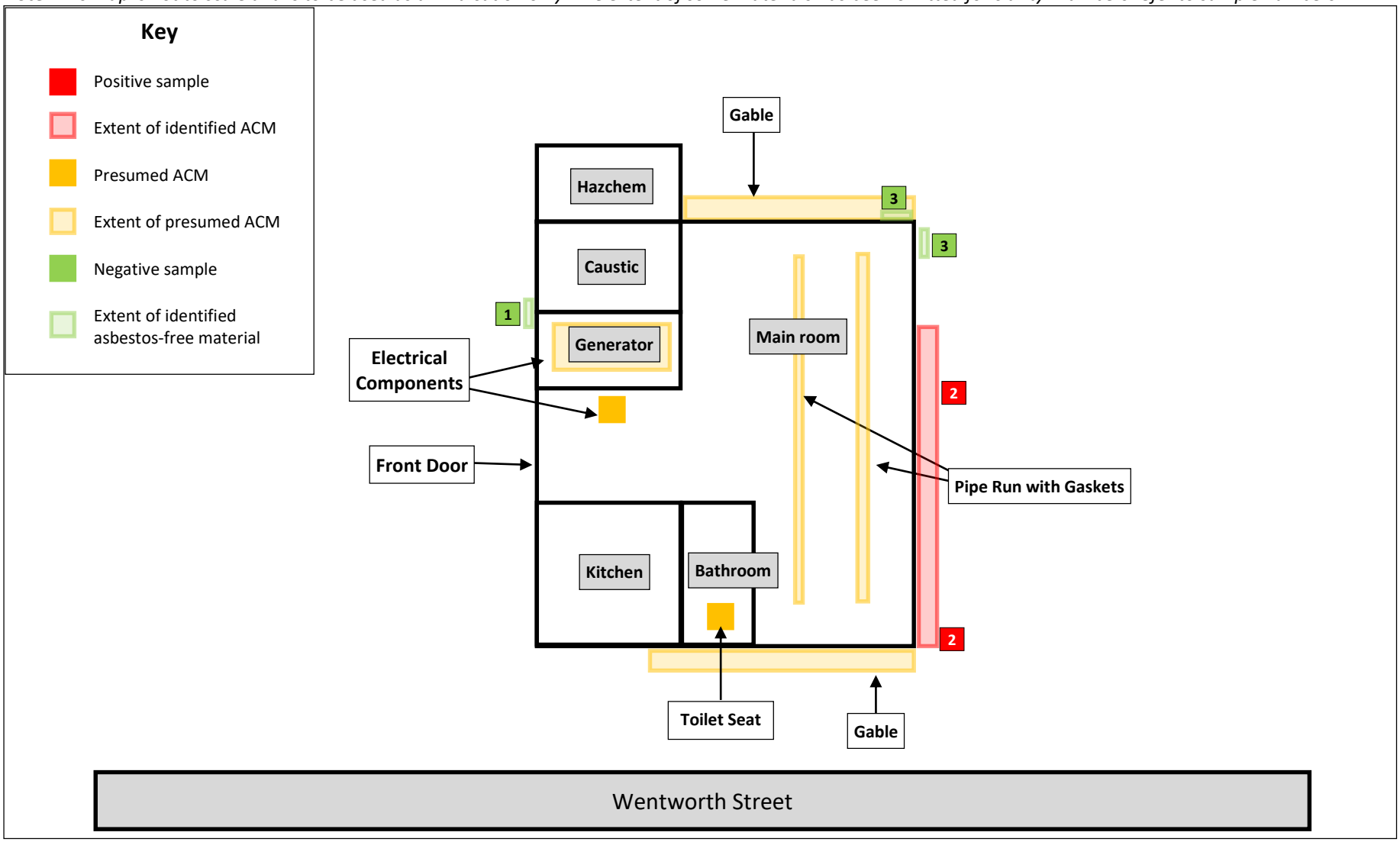

Figure 1 Site Map

APPENDIX A Definitions

Accessibility	This report uses a three-tier scale to indicate how likely it is that a material will be disturbed or damaged. See **APPENDIX C** (p. 15) for more information.
Air monitoring	Measuring airborne asbestos fibres by sampling and analysing them in accordance with a method based on a membrane filter method (in air).
Asbestos	A set of six naturally occurring silicate minerals, which have in common their fibrous form. They are: chrysotile (white asbestos), amosite (brown asbestos), crocidolite (blue asbestos), fibrous tremolite, fibrous anthophyllite, fibrous actinolite.
Asbestos-contaminated dust or ACD	Dust or debris that has settled within a workplace and is, or is assumed to be, contaminated with asbestos
Asbestos-containing material or ACM	Any material or thing that, by its design, contains asbestos
Asbestos-contaminated soil	Soil that is contaminated with asbestos or ACM
Asbestos Management Plan	A written plan that has the following information: (1) where asbestos or ACM is identified and located within the workplace, (2) decisions, with reasons, about how the asbestos is managed in the workplace, (3) how incidents and emergencies involving asbestos will be managed in the workplace, and (4) about the workers who carry out work involving asbestos.
Asbestos Regulations	The Health and Safety at Work (Asbestos) Regulations 2016
Class A asbestos removal work	The removal of any amount of friable or non-friable asbestos or ACM or any amount of ACD
Class B asbestos removal work	The removal of any amount of non-friable asbestos or ACM and ACD associated with removing non-friable asbestos or ACM
Clearance inspection	An inspection of an asbestos removal area after asbestos removal work has been completed to verify that the area is safe for normal use and in the case of Class A asbestos removal work, includes surface testing and air monitoring in a dry condition before the enclosure is dismantled and removed from the asbestos removal area
Competent person	A person who has the knowledge, experience, skills and qualifications to carry out a particular task. In the context of asbestos removal, a competent person is not necessarily a licensed asbestos removalist.
Control monitoring	Monitoring controls to make sure the controls continue to eliminate or minimise airborne asbestos as much as reasonably practicable
Friable	In relation to asbestos or ACM, in a powder form or able to be crumbled, pulverised or reduced to a powder by hand pressure when dry (WorkSafe NZ definition).
HEPA	High Efficiency Particulate Air, a highly efficient filter element.
Licensed asbestos assessor	A competent person who is licenced by WorkSafe to conduct clearance inspections for Class A asbestos removal work
Licensed asbestos removalist	A PCBU who is licensed under WorkSafe regulations to carry out Class A or Class B asbestos removal work
Material Risk	The material risk indicates the likelihood that a material will release airborne fibres, if disturbed or damaged. The chart in APPENDIX B (p. 15) indicates how this risk is calculated.
Presumed ACM	A material must be defined as presumed to contain asbestos if (1) it is inaccessible or (2) it cannot be presumed to be asbestos-free

Presumed Asbestos-Free Material	Material can be presumed to be asbestos-free if (1) the product is very unlikely to contain asbestos (e.g. wood, metal, etc.), (2) non-asbestos materials were specified in the plans, (3) lab analysis has confirmed a visually consistent material in the building does not contain asbestos, (4) asbestos is known not to have been used in the material at the time of installation
Reasonably practicable	Actions that are (or were at a particular time) reasonably able to be done to ensure health and safety. Deciding whether an action is reasonably practicable takes into account associated risks and whether the cost of the action is grossly disproportionate to the risk.
Refurbishment Work	Means partially dismantling buildings or plant for renovation. Does not include minor or routine maintenance work, or other minor work.
Strongly Presumed ACM	A material can be defined as strongly presumed to contain asbestos if (1) lab analysis has confirmed the presence of asbestos in a similar construction material, (2) asbestos is known to have been commonly used in the material at the time of installation, (3) the material has the appearance of asbestos
Unlicensed asbestos removal	Asbestos may be removed without a license when the removal involves (1) $10m^2$ or less of non-friable asbestos and associate asbestos-contaminated dust (ACD) or (2) the removal of ACD not associated with the removal of asbestos and is only a minor contaminant

APPENDIX B Material Assessment Matrix

Sample Variable	Score	Examples of Scores
Product type (or debris from product)	1	Asbestos-reinforced composites (plastics, textured coatings, asbestos cement, vinyl floor tiles, resins, mastics, roofing felts etc.).
	2	AIB, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt.
	3	Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing.
Extent of damage/ deterioration	0	Good condition: no visible damage.
	1	Low damage: a few scratches or surface marks, broken edges on boards, tiles etc.
	2	Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres.
	3	High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris.
Surface treatment	0	Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles
	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated) asbestos cement sheets etc.
	2	Unsealed AIB, or encapsulated lagging and sprays.
	3	Unsealed lagging and sprays.
Asbestos type	1	Chrysotile.
	2	Amphibole asbestos excluding crocidolite.
	3	Crocidolite.

Total Score	Potential to release asbestos fibres
10 or more	**High**
7-9	**Medium**
5-6	Low
4 or less	Very low

APPENDIX C Accessibility Scale

Easy	Medium	Difficult
The material can be easily accessed. There is potential for it to become disturbed during normal occupancy. May be accessible to children. Examples: *wall linings, vinyl floor*	The material is not immediately accessible. It may require a ladder, or the area may have restricted access. Examples: *insulation in locked switch board, ground floor soffits*	The material requires special equipment to access or may be encapsulated in the building fabric. Examples: *textured ceiling above false ceiling, gaskets encased in machinery*

APPENDIX D Priority Assessment Matrix

An average score is taken from each of the four sections in the priority matrix and added to the material assessment total.

Sample Variable	Score	Examples of Scores
Normal Occupant Activity		
Main Type of Activity in Area	0	Rare disturbance activity (e.g. little use store room)
	1	Low disturbance activity (e.g. general office activity)
	2	Periodic disturbance (e.g. industrial or vehicular activity which may contact ACMs)
	3	High levels of disturbance (e.g. fire door with AIB sheet in constant use)
Secondary Activities for Area	**0-3**	As Above
Likelihood of Disturbance		
Location	0	Outdoors
	1	Large rooms or well-ventilated areas
	2	Rooms up to 100m^2
	3	Confined spaces
Accessibility	0	Usually inaccessible or unlikely to be disturbed
	1	Occasionally likely to be disturbed
	2	Easily disturbed
	3	Routinely disturbed
Extent/Amount	0	Small amounts or items (e.g. strings, gaskets)
	1	<10m^2 or <10m pipe run
	2	10-50m^2 or 10-50m pipe run
	3	>50m^2 or >50m pipe run

Sample Variable	Score	Examples of Scores
Human Exposure Potential		
Number of occupants	0	None
	1	1-3
	2	4-10
	3	>10
Frequency of use of area	0	Infrequent
	1	Monthly
	2	Weekly
	3	Daily
Average daily time area is in use	0	<1 hour
	1	1-3 hours
	2	3-6 hours
	3	>6 hours
Maintenance Activity		
Type of maintenance activity	0	Minor disturbance (e.g. possibility of contact when gaining access)
	1	Low disturbance (e.g. changing light bulbs in AIB ceiling)
	2	Medium disturbance (e.g. lifting one or two AIB ceiling tiles to access a valve)
	3	High levels of disturbance (e.g. removing a number of AIB ceiling tiles to replace a valve or for recabling)
Frequency of maintenance activity	0	ACM unlikely to be disturbed for maintenance
	1	Less than once per year
	2	Greater than once per year
	3	Greater than once per month

APPENDIX E Legal Requirements

Health and Safety at Work (Asbestos) Regulations

27. Duty to ensure asbestos removalist is licensed

(1) A PCBU who commissions the removal of asbestos must ensure that the asbestos removal work is carried out by a licensed asbestos removalist who is licensed to carry out the work.

(2) Sub-clause (1) does not apply if the asbestos to be removed is,

a. cumulatively over the whole course of the removal project for the site, 10 m² or less of non-friable asbestos or ACD associated with the removal of that amount of non-friable asbestos; or

b. ACD that is not associated with the removal of friable or non-friable asbestos and is only a minor contamination.

(3) If sub-clause (2) applies, the PCBU that commissions the asbestos removal work must ensure that the work is carried out by a competent person who has been trained in accordance with regulation 17.[4]

17. Duty to train workers about asbestos

(1) In addition to the training required by regulation 9 of the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, a PCBU must ensure that workers who are engaged by the PCBU and who the PCBU reasonably believes may be involved in asbestos removal work or in the carrying out of asbestos-related work are trained in the identification and safe handling of, and suitable control measures for, asbestos and ACM.

(2) This regulation does not apply in relation to a worker referred to in regulation 29.

(3) The PCBU must ensure that a record is kept of the training undertaken by the worker—

(a) while the worker is carrying out the work; and

(b) for 5 years after the day on which the worker ceases working for that PCBU.

(4) The PCBU must keep the record available for inspection under the Act.[4]

[4] Health and Safety at Work (Asbestos) Regulations 2016. Retrieved February 13, 2018 from http://www.legislation.govt.nz/regulation/public/2016/0015/19.0/DLM6729706.html

6.12 Indicating where asbestos is in the workplace

The workplace PCBU must clearly indicate the presence and location of identified or assumed asbestos or ACM in the workplace, including places where asbestos is not accessible.

The workplace PCBU must indicate the asbestos or ACM in a way that complies with the requirements of any applicable safe work instrument.

In there is no applicable safe work instrument, the workplace PCBU can use other ways to indicate the presence of asbestos, such as:

- *asbestos records*
- *asbestos management plans*
- *placing colour-coded labels on ACM (if it is safe to do so) and informing all workers of the presence of these labels and their meaning*
- *placing a sign at the entrance to the workplace or the area*
- *identifying its presence and location on site plans, making them accessible to all workers, and making sure workers are aware of the presence, meaning and purpose of the plans*

6.12.1 Labels

If using labels, a suitably knowledgeable and experienced person should work out their number and positions. The labels' location should be consistent with the location listed in the workplace's asbestos records or asbestos management plan.

If a risk assessment suggests asbestos may be disturbed or people are likely to be exposed, and it is not reasonably practicable to directly label the asbestos, the workplace PCBU should post a warning sign in its immediate vicinity.

The workplace PCBU must comply with the requirements of any applicable safe work instruments, including any requirements for labels[5]

[5] Management and Removal of Asbestos (2016). Retrieved February 13, 2018 from https://worksafe.govt.nz/topic-and-industry/asbestos/management-and-removal-of-asbestos

APPENDIX F Lab Report

K2 Environmental Ltd

Test Certificate

IANZ ACCREDITED LABORATORY

OHSAS 18001 BUREAU VERITAS Certification

Sample Number	Location	Type of Material	Asbestos Result
AS190319-1	Front panel	Insulation board	**No Asbestos detected**
AS190319-2	Cladding	Insulation board	**Chrysotile Asbestos detected**
AS190319-3	Back panel in ducting	Cement board	**No Asbestos detected**

Sampling Details			
Client Details	Gore District Council		
Address	69 Wentworth Street, Gore		
Sample Date	10 April 2019		
Sample Team	Beth Mather	**Assessors Number**	AA16100161
Analysis By	Ben Dodd	**Purpose of Sampling**	Asbestos Identification
Accreditation Reg Number	911	**Report Version**	1
Method Used	Australian Standard: AS 4964-2004 *Method for the identification of asbestos in bulk samples*		

This report must not be altered or reproduced except in full.

Analyst	**Key Technical Person**

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Gore District Council

Asbestos Management Survey

69 Wentworth Street, Gore

Site Assessment Date	**10th April 2019**
Surveyed By	**Beth Mather (BSc, IP402)**
Report Author	**Mike Kantor (MSc)**
Report Checked by	**Stephen Nouwens (IP402)**
Key Technical Person	**Beth Mather (BSc, IP402)**

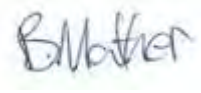
Author Signature	KTP Signature
	

TABLE OF CONTENTS

INDEX OF TABLES AND FIGURES

1 EXECUTIVE SUMMARY

Asbestos-containing materials have been identified.

1.1 Detail

- Asbestos was identified in the exterior insulation board cladding
- Asbestos has been presumed to be present in the main room, bathroom, generator room, caustic room, hazchem room and the exterior

2 BACKGROUND INFORMATION

2.1 Goal

To locate the presence, extent and condition of any possible asbestos-containing materials which could become disturbed or damaged during the day to day occupancy of the building, including planned maintenance works.

2.2 Scope

A full assessment of the property with invasive sampling only in areas that are already damaged, or that can be sampled discretely.

2.3 Site Information

- Gore District Council contracted K2 Environmental to conduct an asbestos survey at 69 Wentworth Street, Gore
- The survey was conducted by Beth Mather (AA16100161) on the 10th April 2019
- The premises is comprised of a single storey cinderblock water treatment building
- The property was estimated to have been built in 1980 according to qv.co.nz

2.4 Survey Reference Methods

The survey method was based on the following guides:

- Conducting Asbestos Surveys (WorkSafe New Zealand, https://worksafe.govt.nz/topic-and-industry/asbestos/working-with-asbestos/conducting-asbestos-surveys/)
- Asbestos: The Survey Guide (Health and Safety Executive (UK), http://www.hse.gov.uk/pubns/books/hsg264.htm)
- *BOHS P402 qualification shows a person is trained and examined on the requirements of these standards.*

3 SURVEY RESULTS SUMMARY

3.1 Identified and Presumed Asbestos-Containing Materials

See the General Recommendations section (p.10) for suggested actions. See the Definitions appendix (p. 13) for more information on terms used in this table.

Room/Area	Item	Material	Extent	Access.	Sample	Asbestos Result	Material Risk
Main room	Pipework/machinery seals	Gasket	Pipework join seals	Difficult	-	**Presumed**	Low
	Fuses	Bakelite	Black-plastic fuses	Easy	-	**Presumed**	Very low
Bathroom	Toilet seat	Bakelite	Toilet seat only	Easy	-	**Presumed**	Very low
Exterior	Cladding	Insulation board	Part of cladding (50m^2)	Easy	2	**Chrysotile asbestos**	Very low
	Gables	Cement sheet	All gables (10m^2)	Medium	-	**Presumed**	Low
Generator, caustic and hazchem rooms	Pipework/machinery seals	Gasket	Pipework join seals	Difficult	-	**Presumed**	Low
	Generator components	Electrical components	Potentially in generator	Medium	-	**Presumed**	Low

3.2 Identified Non-Asbestos Materials

Room/Area	Item	Material	Extent	Sample
Exterior	Front panel	Insulation board	Panel on cladding (0.5m^2)	1
	Back panel	Cement sheet	Panel on cladding (1m^2)	3

4 SITE MAP

***Note**: This map is not to scale and is to be used as an indication only. The extent of some materials has been omitted for clarity. Numbers refer to sample numbers.*

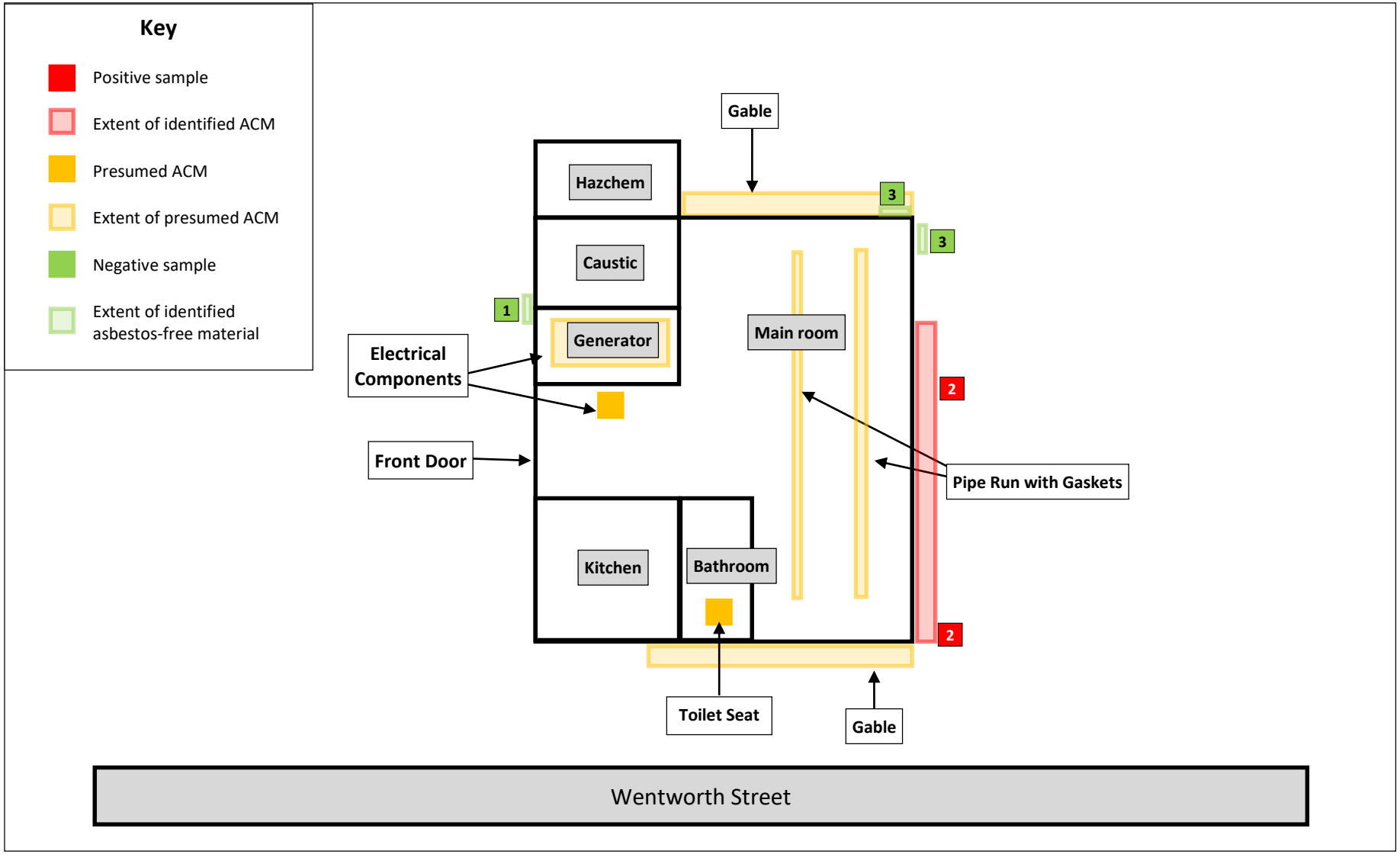


Figure 1 Site Map

5 RESULTS AND PHOTOS

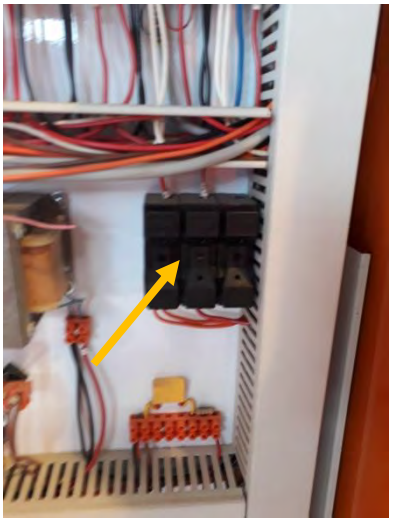
5.1 Samples That Contain Asbestos

AS190319-2 Exterior cladding insulation board		Score
Product	Insulation board	2
Damage	No visible damage	0
Surface Treatment	Cement-bonded material	1
Asbestos Type	Chrysotile asbestos	1
Material Risk	Very low	4
Accessibility	Easy	

5.2 Areas or Materials Presumed to Contain Asbestos

The following materials have been presumed to contain asbestos. See APPENDIX A (p. 13) for more information on the definitions of presumed and strongly presumed asbestos-containing materials.

Presumed Main room, generator/caustic/hazchem rooms, Pipework gaskets		Score
Product	Gasket	2
Damage	No visible damage	0
Surface Treatment	Partial sealed/Unsealed	1
Asbestos Type	Unknown	3
Material Risk	Low	6
Accessibility	Medium	
Reason for not testing	Inspection of this item would require the dismantling of or damage to working machinery; if inspection is required, this will need to be done with the assistance of a qualified technician	



Presumed Main room, Fuses		Score
Product	Bakelite	1
Damage	No visible damage	0
Surface Treatment	Resin-bonded material	0
Asbestos Type	Unknown	3
Material Risk	Very low	4
Accessibility	Easy	
Reason for not testing	The power was not confirmed to be in a zero-energy state; if an inspection is required, this should be done with the assistance of a qualified electrician	

Presumed Bathroom, Toilet seat		Score
Product	Bakelite	1
Damage	No visible damage	0
Surface Treatment	Resin-bonded material	0
Asbestos Type	Unknown	3
Material Risk	Very low	4
Accessibility	Easy	
Reason for not testing	The item has no visible damage and is unlikely to be damaged	

Strongly Presumed Exterior, Gables		Score
Product	Cement sheet	1
Damage	No visible damage	0
Surface Treatment	Cement-bonded material	1
Asbestos Type	Unknown	3
Material Risk	Low	5
Accessibility	Medium	
Reason for not testing	The item was too high to access safely	

No Photo

Presumed Generator components		Score
Product	Electrical components	2
Damage	No visible damage	0
Surface Treatment	Encapsulated in unit	1
Asbestos Type	Unknown	3
Material Risk	Low	6
Accessibility	Medium	
Reason for not testing	The power was not confirmed to be in a zero-energy state; if an inspection is required, this should be done with the assistance of a qualified electrician	

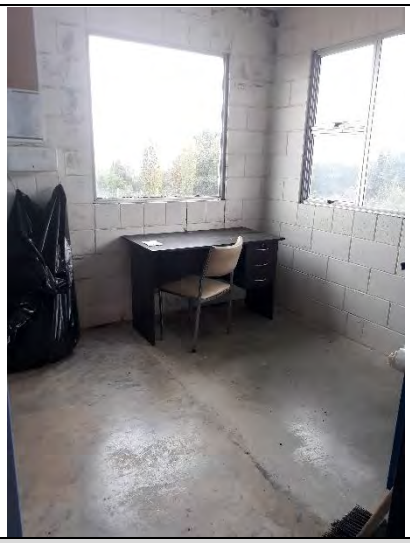
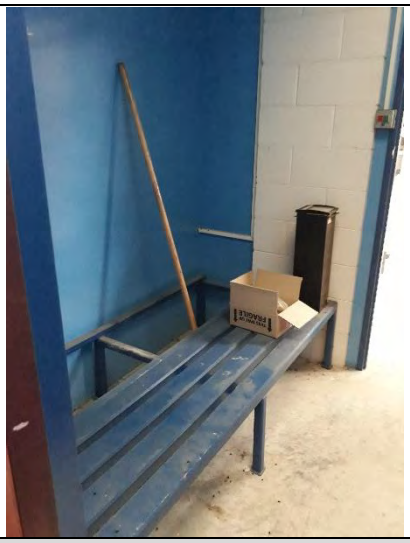
Comment	Asbestos products have been used extensively in the manufacture of electrical components due to its fire resistance and insulation properties. These uses include asbestos coatings to wiring, asbestos paper linings to fuse boxes and control panels, asbestos rope and gasket seals inside distribution transformers and asbestos washers on control panels. These items were unable to be surveyed while the power was live.

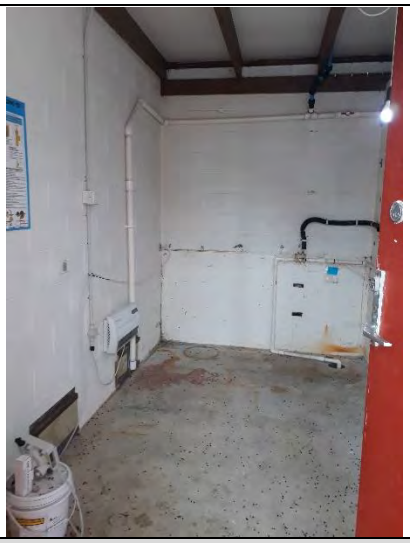
5.3 Samples That Do Not Contain Asbestos

	
AS190319-1 Exterior front panel: insulation board	**AS190319-3** Exterior back panel: cement sheet

5.4 Survey Summary

The following section provides a summary of the rooms and areas covered in this survey. Materials in *underlined italics* are presumed or identified as asbestos-containing materials.

		
Kitchen	**Main room**	**Bathroom**
Ceiling: softboard **Walls**: painted cinderblock, painted hardboard **Sink**: steel **Pipework**: plastic, metal **Door frame**: bare wood **Doors**: bare wood **Floor**: bare concrete **Windows**: aluminium	**Walls**: painted cinderblock, building paper, painted hardboard, painted plywood **Pipework**: metal **Door frame**: painted wood **Doors**: painted wood **Floor**: bare concrete **Fuses**: *Bakelite* **Pipework joins**: *gaskets*	**Ceiling**: painted plasterboard **Walls**: painted cinderblock, painted hardboard **Sink**: steel **Floor**: bare concrete **Toilet bowl**: ceramic **Toilet cistern**: plastic **Toilet seat**: *Bakelite*

	
Exterior	**Generator/caustic/hazchem rooms**
Back panel: cement sheet **Cladding**: painted cinderblock, painted plywood, *insulation board* **Front panel**: insulation board **Gables**: *cement sheet* **Roofing**: tin **Soffits**: painted plywood	**Ceiling**: painted plywood **Walls**: painted cinderblock **Pipework**: metal **Door frame**: painted wood **Doors**: painted wood **Floor**: bare concrete **Generator components**: *electrical components* **Pipework joins**: *gaskets*

6 RECOMMENDATIONS

WorkSafe NZ's Summary of Asbestos Management Options provides detailed information on the advantages and disadvantages of management options, and where these options are most appropriate.[1]

6.1 Management of Asbestos

If the asbestos-containing materials identified in this report are not expected to be disturbed during planned refurbishment or demolition, they must be managed.

6.2 Deferral

- The identified and presumed ACMs do not pose an immediate risk and can be managed in situ
- Periodic inspection of the materials should be scheduled to ensure the risk of asbestos exposure remains negligible
- The materials should be clearly labelled and anyone working near the area should be informed of the hazard
- The materials should be tested for asbestos prior to removal and any refurbishment or maintenance work that may damage or disturb the material

6.3 Presumed Asbestos

If a material is presumed to contain asbestos, it should be treated as asbestos-containing material until proven otherwise. Any area not accessed or inspected must be presumed to contain asbestos, unless there is strong evidence that it does not.

6.4 Material Risk Assessment

The material risk assessment identifies the potential for materials to release airborne fibres if disturbed. However, it does not necessarily follow that those materials with the highest score will be the priority for remedial action.

[1] https://worksafe.govt.nz/dmsdocument/3094-table-6-summary-of-asbestos-management-options

6.5 Managing Asbestos-Containing Materials (ACMs)

The following recommendations can be found in the document *Health and Safety at Work (Asbestos) Regulations 2016* and any best practice guidelines associated with it.

1. **Avoid Damage to ACMs**
   These materials must not be drilled, cut or sanded. No power tools should be used on this material.

2. **Labelling of Asbestos**
   Presence and location of ACM must be clearly indicated.

3. **Determine the Risk**
   The risk to staff needs to be determined. If asbestos is present, an Asbestos Management Plan needs to be in place.

4. **Work Under Supervision**
   Any work involving cleaning, removing, damaging or working on asbestos containing materials must be carried out under the supervision of someone who has a Certificate of Competence in Asbestos Removal.

5. **Requirements for Mask Use**
   Any person using a mask as a method of risk management must:
   - Have a mask fit certificate less than one year old
   - Have a protection factor that exceeds 200
   - Be clean shaven
   - Use a mask that is P2/P3 rated[2]

6. **Preventing Exposure**
   Ensure contractors who work near ACM know about it and have attended Asbestos Awareness Training[3]
   - This includes painters, persons who service alarms, cameras and electrical contractors
   - Any person on site who engages in or is accountable for contractors' work
   - Must be renewed after two years
   - Must include the following:
     - Basic identification of asbestos material
     - Health risk of asbestos
     - Properties of asbestos and how high risks can be generated
     - How to prevent exposure – understanding of PPE use and management

7. **Correct Disposal**
   Material that has been removed needs to be contained in asbestos hazardous waste bags for correct disposal.

[2] P2 respirators are intended for use against mechanically and thermally generated particles. They filter at least 94% of airborne particles. P3 respirators are intended to be used against all particulates, including highly toxic materials. They filter at least 99.95% of airborne particles.

[3] K2 Environmental have the capacity to carry out Asbestos Awareness Training, contact us for more information

7 DISCLAIMER

The goal of this survey is to locate any asbestos-containing materials that may become disturbed or damaged during the day to day occupancy of the premises, including planned maintenance works. It is possible that there may be other asbestos-containing materials present that have not been exposed during this survey.

The most probable locations are:

- In inaccessible cavities
- Under other building materials
- Behind walls
- Concealed in or under concrete foundations

It is advised that if any suspicious material is identified K2 Environmental is contacted.

The K2 blog[4] has examples of typical asbestos material. It is good practice that any building contractor has attended an Asbestos Awareness Training course.

[4] http://www.k2.co.nz/asbestos-in-buildings/

APPENDIX A Definitions

Accessibility	This report uses a three-tier scale to indicate how likely it is that a material will be disturbed or damaged. See **APPENDIX C** (p. 15) for more information.
Air monitoring	Measuring airborne asbestos fibres by sampling and analysing them in accordance with a method based on a membrane filter method (in air).
Asbestos	A set of six naturally occurring silicate minerals, which have in common their fibrous form. They are: chrysotile (white asbestos), amosite (brown asbestos), crocidolite (blue asbestos), fibrous tremolite, fibrous anthophyllite, fibrous actinolite.
Asbestos-contaminated dust or ACD	Dust or debris that has settled within a workplace and is, or is assumed to be, contaminated with asbestos
Asbestos-containing material or ACM	Any material or thing that, by its design, contains asbestos
Asbestos-contaminated soil	Soil that is contaminated with asbestos or ACM
Asbestos Management Plan	A written plan that has the following information: (1) where asbestos or ACM is identified and located within the workplace, (2) decisions, with reasons, about how the asbestos is managed in the workplace, (3) how incidents and emergencies involving asbestos will be managed in the workplace, and (4) about the workers who carry out work involving asbestos.
Asbestos Regulations	The Health and Safety at Work (Asbestos) Regulations 2016
Class A asbestos removal work	The removal of any amount of friable or non-friable asbestos or ACM or any amount of ACD
Class B asbestos removal work	The removal of any amount of non-friable asbestos or ACM and ACD associated with removing non-friable asbestos or ACM
Clearance inspection	An inspection of an asbestos removal area after asbestos removal work has been completed to verify that the area is safe for normal use and in the case of Class A asbestos removal work, includes surface testing and air monitoring in a dry condition before the enclosure is dismantled and removed from the asbestos removal area
Competent person	A person who has the knowledge, experience, skills and qualifications to carry out a particular task. In the context of asbestos removal, a competent person is not necessarily a licensed asbestos removalist.
Control monitoring	Monitoring controls to make sure the controls continue to eliminate or minimise airborne asbestos as much as reasonably practicable
Friable	In relation to asbestos or ACM, in a powder form or able to be crumbled, pulverised or reduced to a powder by hand pressure when dry (WorkSafe NZ definition).
HEPA	High Efficiency Particulate Air, a highly efficient filter element.
Licensed asbestos assessor	A competent person who is licenced by WorkSafe to conduct clearance inspections for Class A asbestos removal work
Licensed asbestos removalist	A PCBU who is licensed under WorkSafe regulations to carry out Class A or Class B asbestos removal work
Material Risk	The material risk indicates the likelihood that a material will release airborne fibres, if disturbed or damaged. The chart in APPENDIX B (p. 15) indicates how this risk is calculated.
Presumed ACM	A material must be defined as presumed to contain asbestos if (1) it is inaccessible or (2) it cannot be presumed to be asbestos-free

Presumed Asbestos-Free Material	Material can be presumed to be asbestos-free if (1) the product is very unlikely to contain asbestos (e.g. wood, metal, etc.), (2) non-asbestos materials were specified in the plans, (3) lab analysis has confirmed a visually consistent material in the building does not contain asbestos, (4) asbestos is known not to have been used in the material at the time of installation
Reasonably practicable	Actions that are (or were at a particular time) reasonably able to be done to ensure health and safety. Deciding whether an action is reasonably practicable takes into account associated risks and whether the cost of the action is grossly disproportionate to the risk.
Refurbishment Work	Means partially dismantling buildings or plant for renovation. Does not include minor or routine maintenance work, or other minor work.
Strongly Presumed ACM	A material can be defined as strongly presumed to contain asbestos if (1) lab analysis has confirmed the presence of asbestos in a similar construction material, (2) asbestos is known to have been commonly used in the material at the time of installation, (3) the material has the appearance of asbestos
Unlicensed asbestos removal	Asbestos may be removed without a license when the removal involves (1) 10m^2 or less of non-friable asbestos and associate asbestos-contaminated dust (ACD) or (2) the removal of ACD not associated with the removal of asbestos and is only a minor contaminant

APPENDIX B Material Assessment Matrix

Sample Variable	Score	Examples of Scores
Product type (or debris from product)	1	Asbestos-reinforced composites (plastics, textured coatings, asbestos cement, vinyl floor tiles, resins, mastics, roofing felts etc.).
	2	AIB, millboards, other low-density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt.
	3	Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing.
Extent of damage/ deterioration	0	Good condition: no visible damage.
	1	Low damage: a few scratches or surface marks, broken edges on boards, tiles etc.
	2	Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres.
	3	High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris.
Surface treatment	0	Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles
	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated) asbestos cement sheets etc.
	2	Unsealed AIB, or encapsulated lagging and sprays.
	3	Unsealed lagging and sprays.
Asbestos type	1	Chrysotile.
	2	Amphibole asbestos excluding crocidolite.
	3	Crocidolite.
Total Score		**Potential to release asbestos fibres**
10 or more		**High**
7-9		**Medium**
5-6		Low
4 or less		Very low

APPENDIX C Accessibility Scale

Easy	Medium	Difficult
The material can be easily accessed. There is potential for it to become disturbed during normal occupancy. May be accessible to children. Examples: *wall linings, vinyl floor*	The material is not immediately accessible. It may require a ladder, or the area may have restricted access. Examples: *insulation in locked switch board, ground floor soffits*	The material requires special equipment to access or may be encapsulated in the building fabric. Examples: *textured ceiling above false ceiling, gaskets encased in machinery*

APPENDIX D Asbestos Regulations

D.1. Remediation Work

Any demolition or refurbishment work conducted on properties built prior to 1 January 2000 must first identify whether asbestos-containing material is present. Below is direct text from the regulations:

> **"19. Application of this subpart**
> (1) This subpart applies to the demolition or refurbishment of a structure or plant –
> (a) that was constructed or installed before 1 January 2000; or
> (b) in which asbestos has been identified; or
> (c) in which asbestos is likely to be present from time to time.
> (2) For the purposes of this subpart, **demolition or refurbishment** does not include minor or routine maintenance work, or other minor work.
> *Compare: Model Work Health and Safety Regulations 2011 (Aust) r 447*
>
> **20. Determining presence of asbestos or ACM**
> (1) This regulation applies if demolition or refurbishment of a structure or plant is to be carried out at a workplace.
> (2) The PCBU who intends to carry out the demolition or refurbishment must not carry out the demolition or refurbishment until the structure or plant has been inspected to determine whether asbestos or ACM is fixed to or installed in the structure or plant.
> (3) The PCBU who intends to carry out the demolition or refurbishment must ensure that the determination is undertaken by a competent person."[5]

D.2. Requirement to Have an Asbestos Management Plan

The regulations require sites to have a management plan. A management plan details what the risks are and what steps are to be taken to ensure the risks are low or zero. Items that will be required in a management plan are:

- Survey report
- Decisions and reasons for decisions on managing risk
- How incidents and emergencies are managed
- Training, roles, health survey of workers

> **"13. Duty to prepare asbestos management plan**
> (1) This regulation applies if asbestos or asbestos containing material is:
> a. Identified at a workplace under regulation 10; or
> b. Likely to be present at a workplace from time to time.
> (2) A PCBU with management or control of the workplace must ensure that a written plan (an asbestos management plan) for the workplace is prepared.
> (3) A PCBU with management or control of the workplace must ensure that the information in the management plan is kept up to date."[5]

[5] Health and Safety at Work (Asbestos) Regulations 2016

APPENDIX E Lab Report

Test Certificate

Sample Number	Location	Type of Material	Asbestos Result
AS190319-1	Front panel	Insulation board	**No Asbestos detected**
AS190319-2	Cladding	Insulation board	**Chrysotile Asbestos detected**
AS190319-3	Back panel in ducting	Cement board	**No Asbestos detected**

Sampling Details			
Client Details	Gore District Council		
Address	69 Wentworth Street, Gore		
Sample Date	10 April 2019		
Sample Team	Beth Mather	**Assessors Number**	AA16100161
Analysis By	Ben Dodd	**Purpose of Sampling**	Asbestos Identification
Accreditation Reg Number	911	**Report Version**	1
Method Used	Australian Standard: AS 4964-2004 *Method for the identification of asbestos in bulk samples*		

This report must not be altered or reproduced except in full.

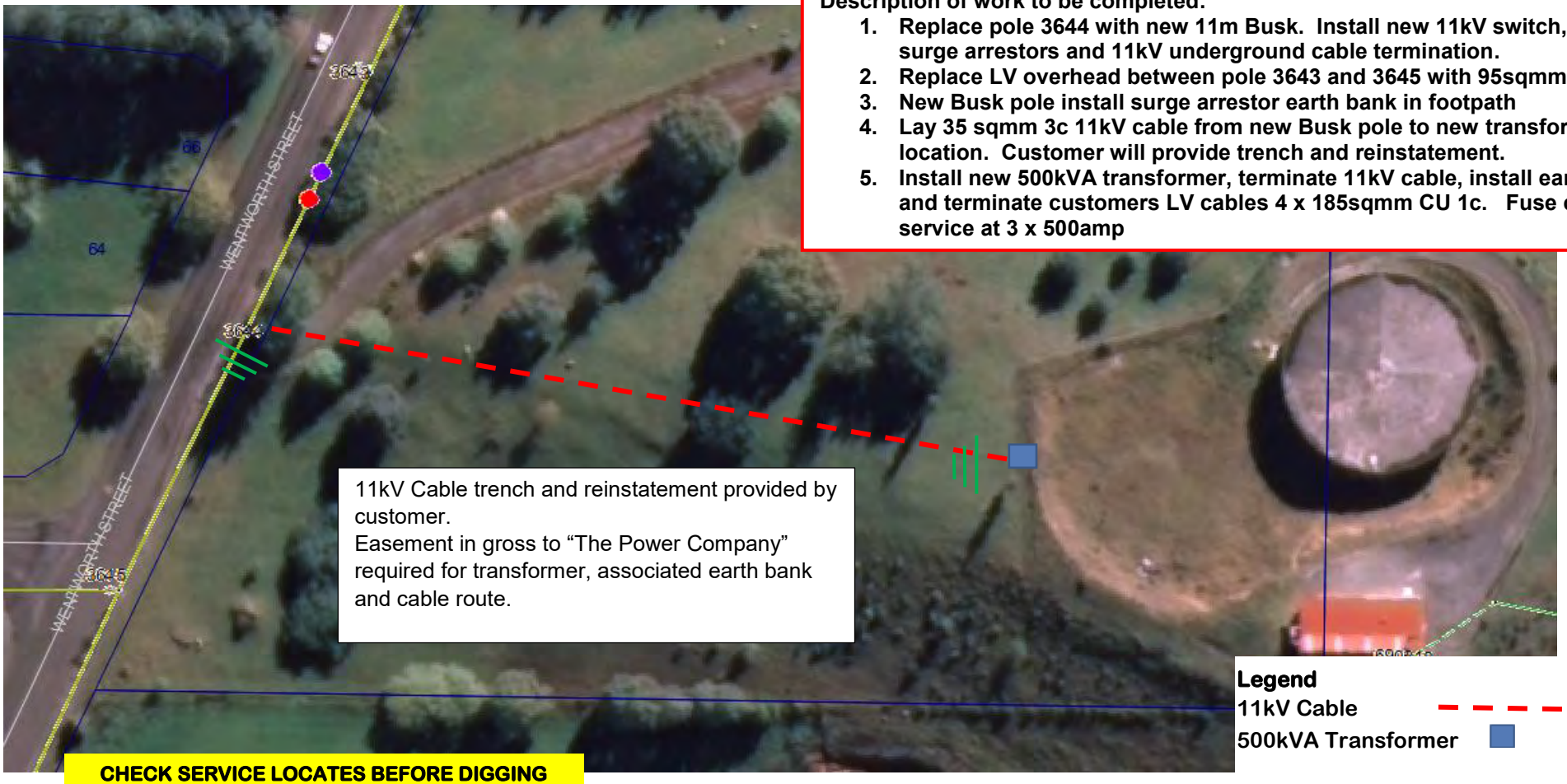
Analyst	**Key Technical Person**

Christchurch Head Office	Wellington	Hamilton	Auckland
PO Box 28147, Beckenham, Unit 24, 105 Bamford Street, Woolston, Christchurch	5/408 Hutt Road Alicetown, Lower Hutt 5010	37 Lake Road Frankton, Hamilton 3204	Unit 23, 203 Kirkbride Road, Airport Oaks, Auckland 2022
Tel: 03 384 8966			**Tel**: 09 275 1261
Mobile: 0274 33 78 72	**Mobile** 027 533 7872	**Mobile** 027 233 7874	**Mobile** 0276758223
Email: info@k2.co.nz	**Email** info@k2.co.nz	**Email** Info@k2.co.nz	**Email**: info@k2.co.nz

Safety 1st – Always remember to wear your PPE!

Description of work to be completed:

1. **Replace pole 3644 with new 11m Busk. Install new 11kV switch, fuses, surge arrestors and 11kV underground cable termination.**
2. **Replace LV overhead between pole 3643 and 3645 with 95sqmm 4c ABC**
3. **New Busk pole install surge arrestor earth bank in footpath**
4. **Lay 35 sqmm 3c 11kV cable from new Busk pole to new transformer location. Customer will provide trench and reinstatement.**
5. **Install new 500kVA transformer, terminate 11kV cable, install earth bank and terminate customers LV cables 4 x 185sqmm CU 1c. Fuse customers service at 3 x 500amp**



CHECK SERVICE LOCATES BEFORE DIGGING

Project / Work Order #: 363526 / 363527

Customer: Gore District Council

Description:

Location: 69 Wentworth SteetGore

Project Manager: Richard Lee

Contractor: PNL

Transformer:

ICP No:

Mains: TBA

Fuse: 500 amp

MX PO#:

Livening Authority:
Do not liven until further notice

Approved for Construction

(Project Manager)

Name: Richard Lee

Sign:

Date: **27/1/2021**

Constructed as Designed ☐

Constructed with Changes ☐

(Field Staff, Team Leader, Depot Supervisor, Contractor)

Name:_____

Sign: _____

Date: ___/___/___

PowerNet

Connections Construction Drawing

Date: 27/01/2021
Version: 1.0
Scale: N.T.S

From:	Ian Soper
To:	Suzanne Lucas
Cc:	Ian Soper
Subject:	FW: FW: AS190319 - GDC, 69 Wentworth Street, Gore, asb survey REPORT, Apr 19.pdf
Date:	Friday, 2 August 2019 9:52:52 AM
Attachments:	image001.png image002.png AS190319 - GDC, 69 Wentworth Street, Gore, asb survey REPORT, Apr 19.pdf AS190319 - GDC, 69 Wentworth Street, Gore Asbestos Management Plan May19 .pdf

-----Original Message-----
From: Pauline Langridge [mailto:asbestos@k2.co.nz];
Sent: 6/05/2019 3:14:54 p.m.
To: Ian Soper [mailto:ISoper@goredc.govt.nz];
CC: Ian Davidson-Watts [mailto:IDavidson-Watts@goredc.govt.nz]; k2@emailmyjob.com [mailto:k2@emailmyjob.com];
Subject: FW: AS190319 - GDC, 69 Wentworth Street, Gore, asb survey REPORT, Apr 19.pdf

I did it again, apologies.

With MP

Kind regards

K2

Pauline Langridge
Operations Administrator
K2 Environmental Ltd

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Woolston, **Christchurch**

Christchurch	Auckland	Wellington	Hamilton
03 384 8966	09 275 1261	027 533 7872	027 233 7874

From: Pauline Langridge
Sent: Monday, 6 May 2019 3:13 PM
To: 'Ian Soper' <ISoper@goredc.govt.nz>
Cc: Ian Davidson-Watts <IDavidson-Watts@goredc.govt.nz>; k2@emailmyjob.com
Subject: AS190319 - GDC, 69 Wentworth Street, Gore, asb survey REPORT, Apr 19.pdf

Hi Ian,

Please find report and management plan attached.

Kind regards

K2

Pauline Langridge
Operations Administrator
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