

25 June 2024

Ref: OIA-685

[Redacted]

Tēnā koe [Redacted]

Information request related to water leaks on Kashmir Avenue

Thank you for your email of 18 May 2024 asking a series of questions about water leaks in relation to where you live on Kashmir Avenue in Upper Hutt. Your request is responded to in accordance with the Local Government Official Information and Meetings Act 1987 (LGOIMA – the Act).

Answers to your individual questions have responded to in the Appendix on the following page. Information in the attachments provided has been withheld under the following sections of the Act:

- 7(2)(a) – *privacy*
- 7(2)(b)(ii) – *prejudice the commercial position of the person who supplied or who is the subject of the information*

In accordance with section 7(1) of the Act, we do not consider the withholding of information under the respective section(s) 7 of the Act is outweighed by other considerations which render it desirable, in the public interest, to make that information available.

Please note that it is our policy to proactively release our responses to official information requests where possible. Our response to your request will be published shortly at <https://www.wellingtonwater.co.nz/about-us/official-requests/official-information-act-responses/> with your personal information removed.

You have the right to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

If you wish to discuss this decision with us, please feel free to email us at official.information@wellingtonwater.co.nz

Nāku noa, nā,

[Redacted]

Head of Customer Experience
Customer Operations Group

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 /wellingtonwater  @wgtwaternz & @wgtwateroutage  @wellington_water

www.wellingtonwater.co.nz

Our water, our future.

Appendix: response to questions

1. *What is the likelihood of your engineers fixing a leak in one part of a street only for the leak to emerge further down the street.*

Unfortunately we do not hold information on likelihood. For context, many factors come into play when another leak might occur further down the same line/pipe. It could be affected by fault type, severity, location, and pipe materials. For example, there is an old water pipe with several vulnerabilities. When a leak is fixed, that portion of the pipe is no longer the weakest spot. When the water is turned back on, (or at its lowest use e.g. overnight), more pressure is put on the remaining weak spots. Those weak spots fail creating a new leak.

2. *Is a whack-a-mole strategy for repairing water leaks more cost effective than repairing or replacing the actual infrastructure?*

Please refer to the following weblink that provides a comprehensive description of how Wellington Water addresses water leaks:

<https://www.wellingtonwater.co.nz/resources/topic/water-conservation/leaks/>

Wellington Water provides 'leak statistics' through this webpage via:

<https://www.wellingtonwater.co.nz/resources/topic/water-conservation/leaks/leak-stats/>

3. *What is a threshold for replacing a pipe? How bad does it need to get?*

Prioritisation of pipe replacement depends on several factors, such as the fault type, severity, location, and risks to public health, the environment, and number of repaired faults and funding levels. The renewal of the water mains and service valves in Kashmir Ave is on the next renewal programme for Upper Hutt with construction programmed for the 2024-27 Long Term Plan subject to funding.

4. *Cr Hammond once told me that Upper Hutt has the best pipes in the region because we are closest to the reservoirs? I suspect he said that because he didn't like Three Waters but do you have any stats or information that would substantiate that claim? I don't feel like I live on a street that has the best pipes in the region but maybe I just don't get out of Upper Hutt enough?*

Upper Hutt City Council is answering this question to you – however, in general Upper Hutt would typically have younger water pipes than Lower Hutt and Wellington as Upper Hutt was developed later, but this does equate to the best pipes.

Zeroing in on Kashmir Ave

Disclaimer: *Please note that data provided is only held from 2020 onwards. Data prior to FY 2020/21 is considered to have a much lower confidence.*

There are two reasons for this:

1. In 2018, there was a transition of service suppliers within Operations as we moved from an existing 10-year contract to the Integrated New Alliance. During this process, the transfer of data from the previous supplier to WWL databases was not always complete or in a format that could be easily integrated or accessed.

- At the start of the Alliance, a new front-end Asset Management and Maintenance system was planned for introduction. However, it took longer than expected, pushing the proposed start date from June 2019. As an interim measure, a system was implemented on short notice, with the understanding that it would be temporary. Although it helped us at the time, the interim system had limitations as it was not a fully-fledged asset collection and maintenance integrated system.

The new system became fully functional from June 2020 and we can report with high level of confidence from FY2020/21 onwards.

- How many water leaks have been reported on Kashmir Ave Upper Hutt in the past 5 years?*

46 leaks have been reported in the last four years. Please find attached the jobsheets related to those leaks.
- How many water leaks have been repaired in the past five years.? What is the average response time for fixing these leaks?*

46 leaks. For the response time, Wellington Water reports as required by the Department of Internal Affairs guidelines – we only provide median response times/council to urgent and non-urgent drinking water jobs, with the majority of these being leaks.
- Can you please break these stats down by type of leak? In our street I've reported apparent leaking tobies but also a few holes in the middle of the water sprouting water.*

Unfortunately Wellington Water cannot break this down, the data regarding leaks is not held in this requested format. I can provide you with the following:

 - 27 leaks related to pipes
 - 7 leaks related to valves, hydrants and tobys
 - 12 leaks did not record the failure data
- Where does Kashmir Ave sit among the leakiest streets in Upper Hutt?*

As previously advised, leaks by street is not recorded – only by suburb. The leakiest suburb is Trentham. In the last four years Trentham has had 912 leaks reported.
- What would need to happen in order to achieve no more leaks on Kashmir Ave?*

Any faults on the Council's network need to be reported promptly. This data will assist provide subject matter experts in prioritising asset renewals.
- What are the top 5 leakiest streets in Upper Hutt?*

We cannot provide 'leakiest street', we only provide by suburb for the leaks we have either responded to or have been reported in the last four years:

Suburb	Number of leaks
Trentham	912
Silverstream	510
Elderslea	290
Ebdentown	256
Clouston Park	239

7. *Are there any reports, memos, aide memoires or stuff written down somewhere relating to the water situation or leak situation on Kashmir Ave?*

The Water Pipes Risk Assessment database ranks each street on probability of failure, critically and performance scores. It also includes the number of water pipe repairs (main, ridermain and service) for each street. This repair data is collected by our maintenance contractors and permission is restricted to these users.

The following reports relating to Kashmir Avenue have been found and attached:

- 2021 Delivery Plan - Water Reform Water Supply Renewals Programme – Upper Hutt
- 2015 Hutt Valley Activity Management Plan – extract: Title page and page 52 referencing Kashmir Avenue

An IT search for other information - stuff written down relating to water/leak situation on Kashmir Avenue provided over 3000 results. As allowed by section 17(f) of the Act, this part of your request is refused as the information requested cannot be made without substantial collation or research.

8. *Is there anything else you can tell me about the water infrastructure in our street or any information that would help me to better understand the issue?*

There are two water pipes in Kashmir Ave, one is a 100 mm diameter asbestos cement (AC) laid in 1961 from Clouston Park Road to Fergusson Drive and a 50 mm diameter AC ridermain laid in 1998 from 4 to 18 Kashmir Ave. The main issue with Kashmir Ave is the high number of service pipe repairs as opposed to main and ridermain repairs. Smaller diameter AC ridermains have a thinner wall thickness than larger diameter water mains and are prone to failure sooner.

Address	Council Reference ID	Asset ID	Work Order Summary	Job Details	Water	Priority	Status	Reported Date	Completion/Closed Date	Entry Date	Work Log Summary	Work Log Detail
71 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC19596	UHCC_PW022998	Leaky Connection 71 Kashmir Avenue(ROVER)	Caller informed of water leak from the fire hydrant opposite number 39 Clouston park road.	Potable	3	CLOSE	4/11/2023 1:06:43 PM	7/20/2023 1:35:47 PM	4/11/2023 1:06:57 PM 4/14/2023 1:38:08 PM	Note from Council Assigned to rover	Caller informed of water leak from the fire hydrant opposite number 39 Clouston park road.
65 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC25006	No Asset Selected	Leaky Connection 65 Kashmir Avenue	Customer advised there is a leak coming from the fir hydrant where the road meets the shared driveway for 61,63,65 Kashmir Avenue. Not a large leak but is a constant flow.	Potable	3	COMP.V AWCOS T	2/1/2024 9:02:28 AM	2/15/2024 1:51:08 PM	2/1/2024 9:02:43 AM 2/15/2024 1:51:04 PM	Note from Council Cancelled and related - UHCC24661	Customer advised there is a leak coming from the fir hydrant where the road meets the shared driveway for 61,63,65 Kashmir Avenue. Not a large leak but is a constant flow.
63 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC7705	No Asset Selected	Leaking Pipes 63 Kashmir Ave	<div>Toby leak running at 1 litre every 15 seconds. Running into the gutter.</div><div></div><div>Plans attached for before u dig, Chorus, WE, gas & vodafone.</div><table border="0" cellpadding="0" cellspacing="5"><tr><td style="padding: 0.75pt;"> Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </td></tr></tbody></table><div></div><!-- RICH TEXT -->	Potable	3	CLOSE	12/16/2020 4:35:58 PM	1/15/2021 11:10:53 AM	12/16/2020 4:36:24 PM 12/17/2020 4:00:41 PM 12/22/2020 1:07:01 PM	Note from Council notification sent via text. Service plans attached	Toby leak running at 1 litre every 15 seconds. Running into the gutter. Service plans ordered.<!-- RICH TEXT -->
	UHCC11995	UHCC_PW008462	Leaky Connection 63 Kashmir Avenue	<div>Customer called to say toby is starting to leak again. Its not gushing out just dribbling. She said was badly leaking over the recent lockdown. Someone came out and replaced the toby lid.</div><div>Plans ordered 28/10 - 1924209</div><div>01/11/21 sk - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><!-- RICH TEXT -->	Potable	3	CLOSE	10/27/2021 12:12:56 PM	11/5/2021 3:49:13 PM	10/27/2021 12:13:15 PM 10/28/2021 11:00:16 AM 11/1/2021 8:38:24 PM	Note from Council Plans ordered Plans attached	Customer called to say toby is starting to leak again. Its not gushing out just dribbling. She said was badly leaking over the recent lockdown. Someone came out and replaced the toby lid. Plans ordered 28/10 - 1924209<!-- RICH TEXT --> 01/11/21 sk - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).<!-- RICH TEXT -->
	UHCC12142	UHCC_PWP020581	Leaky Connection 63 Kashmir Avenue, Clouston Park, Upper Hutt	<div>Leak at the top of the driveway. 2 quite large puddles Could be related to the toby? Has recently had their toby fixed. Thanks, ██████████</div><div></div><div>16/11 MW - From ██████████: Plans/2P - non-urgent</div><div>Plans ordered 1935173</div><div>22/11/2021 GB - Plans Attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><div> </div><!-- RICH TEXT -->	Potable	3	CLOSE	11/8/2021 11:48:53 AM	11/30/2021 11:55:34 AM	11/8/2021 11:49:13 AM 11/11/2021 1:50:27 PM 11/16/2021 9:22:36 AM 11/16/2021 10:04:54 AM 11/16/2021 10:08:37 AM 11/22/2021 12:16:42 PM 11/22/2021 12:17:12 PM	Note from Council Update A Status Change to PAUSE Plans ordered 1935173 Plans Attached Plans Attached	Leak at the top of the driveway. 2 quite large puddles Could be related to the toby? Has recently had their toby fixed. Thanks. 7(2)
	UHCC24661	UHCC_PW039794	Valve Leaking @ 5 LPM 63 Kashmir Ave	<div>caller advised yesterday 17/01/24 he had a big wellington water truck outside his property - within 2 hours the toby started leaking and flooding the street, this	Potable	3	INPRG.R ESCHED	1/18/2024 10:00:55 AM		1/18/2024 10:01:04 AM	Note from Council	caller advised yesterday 17/01/24 he had a big wellington water truck outside his property - within 2 hours the toby started leaking and flooding the street, this happened after the wellington water had been there so he is unsure

				<p>happened after the wellington water had been there so he is unsure what's happened. this service's roughly 3 houses. needs this to be looked at</p> <p>29/1 LS - Plans ordered 2340490</p> <p>31/01 DC - Plans attached</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s)</p> <p>Caution: There is Core Network in the area provided on the plan(s)</p> <p>5/03 JJ-customer called for an update and asked what happens if it turns out to be private leak as there are 5 other properties</p> <p>11/03/2024 HJR - I have re ordered the plans</p> <p>12/3/24 - KLH _ Has attached plans. Caution: There is High Capacity and/or Fibre Network in the ar</p>							<p>what's happened. this service's roughly 3 houses. needs this to be looked at</p> <p>Plans ordered 2340490</p> <p>Plans attached</p> <p>Valve leak serves several propeties</p> <p>11/03/2024 HJR - I have re ordered the plans 2363820</p> <p>12/3/24 - KLH _ Has attached plans. Caution: There is High Capacity and/or Fibre Network in the ar</p>	
				<p>12/3/24 - KLH _ Has attached plans. Caution: There is High Capacity and/or Fibre Network in the ar</p>								
61 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC24332	UHCC_PWP014352	Fault 61 Kashmir Avenue	<p>Details: Water toby at the below address is broken and cant be turned off.</p> <p>Tap keeps spinning. Water leak inside hose needs to be fixed.</p> <p>Caller has a property in 61 Kashmir Avenue, Clouston Park, Upper Hutt.</p> <p>05.01 MF Ordered plans 2328284</p> <p>11/01 DC - Plans attached</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s)</p> <p>Caution: There is Core Network in the area provided on the plan(s)</p>	Potable	3	CLOSE	1/5/2024 10:10:24 AM	1/17/2024 9:39:11 PM	<p>1/5/2024 10:10:33 AM</p> <p>1/5/2024 10:21:52 AM</p> <p>1/5/2024 10:22:41 AM</p> <p>1/11/2024 2:13:57 PM</p>	<p>Note from Council</p> <p>Called customer to acknowledge job</p> <p>Ordered plans 2328284</p> <p>Plans attached</p>	<p>Details: Water toby at the below address is broken and cant be turned off.</p> <p>Tap keeps spinning. Water leak inside hose needs to be fixed.</p> <p>Caller has a property in 61 Kashmir Avenue, Clouston Park, Upper Hutt.</p> <p>Called customer to acknowledge job spoke to 7(2) advised the leak in the house was happening in the kitchen just swapping over some taps dripping into a basin. Advised I will order some plans on this job.</p> <p>Ordered plans 2328284</p>
55 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC16016	UHCC_PWP020581	Leaky Connection 55 Kashmir Avenue, Clouston Park	<p>16/11/22 CAR R902421</p> <p>Water is leaking out off the berm</p> <p>06/9 RF - Plans ordered 2083877, assign to 2P Crew once plans attached.</p> <p>8/9 KS Plans attached</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the</p>	Potable	2	CLOSE	9/2/2022 10:48:52 AM	11/15/2022 3:26:59 PM	<p>9/2/2022 10:49:06 AM</p> <p>9/5/2022 1:31:18 PM</p> <p>9/6/2022 9:46:11 AM</p> <p>9/6/2022 9:47:46 AM</p>	<p>Note from Council</p> <p>Called the customer</p> <p>A</p> <p>Status Change to PAUSE</p>	<p>Water is leaking out off the berm</p> <p>Called the customer, he said it is causing a safety issue</p> <p>Service leak could be off the main Plans required traffic management may be required pass to 2 x man crew Close approach permit arranged for 8-9-22. 9am. Ref 85551</p>

				plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->					9/6/2022 9:50:09 AM	Plans ordered 2083877	<div>Plans ordered 2083877 </div><div> </div><!-- RICH TEXT -->
									9/8/2022 4:52:06 PM	8/9 KS Plans attached	<div> </div><div><div>8/9 KS Plans attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div> </div></div><!-- RICH TEXT -->
									10/26/2022 12:56:32 PM	Note from Council	Water is leaking out off the berm ***26/10/2022 Hi Team I note this is still not repaired and causing a hazardous situation where the sidewalk is constantly wet and becoming extremely slippery. It only a matter if time before someone slips and is injured. Regards 7(2)
									11/2/2022 2:11:04 PM	Note from Council	Water is leaking out off the berm *** 02/11/2022 Sadly, another week has gone by without resolution. The side walk is now extremely slippery and a health and safety hazard, apart from the ongoing leak. It's hard to take council imposed water restrictions seriously when situations like this are seemingly ignored. Regards 7(2) ***26/10/2022 Hi Team I note this is still not repaired and causing a hazardous situation where the sidewalk is constantly wet and becoming extremely slippery. It only a matter if time before someone slips and is injured. Regards 7(2)
									11/8/2022 11:25:28 AM	Job cannot be done due to vehicle parked in way of traffic set up. Delay job.	.
									11/8/2022 11:27:42 AM	Water leak inspection	
									11/11/2022 10:55:35 AM	Note from Council	***11/11/2022 7(2) has sent an email to our Team and to the CEO and Mayor. Hi 7(2) Regrettably yet another week has passed without any visible effort to resolve this issue. While I understand youâ€™re doing your bit, the rest is a bit of a joke. Is it going to take someone slipping on the sidewalk and injuring themselves to get some action? Regards 7(2) Water is leaking out off the berm *** 02/11/2022 Sadly, another week has gone by without resolution. The side walk is now extremely slippery and a health and safety hazard, apart from the ongoing leak. It's hard to take council imposed water restrictions seriously when situations like this are seemingly ignored. Regards 7(2) ***26/10/2022 Hi Team I note this is still not repaired and causing a hazardous situation where the sidewalk is constantly wet and

												becoming extremely slippery. It only a matter if time before someone slips and is injured. Regards 7(2)
									11/11/2022 11:04:47 AM	UHCC called in		UHCC called in for update. Advised them of previous note.<!-- RICH TEXT -->
									11/16/2022 7:40:43 AM	CAR R902421		CAR R902421<!-- RICH TEXT -->
UHCC16016R	UHCC_PWP020581	Reinstatement: Leaky Connection 55 Kashmir Avenue, Clouston Park	<div>16/11/22 CAR R902421 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	11/15/2022 3:32:25 PM	3/10/2023 4:23:03 PM				
UHCC17400	UHCC_PWP014358	Leaky Connection 55 Kashmir Avenue	<div>CAR R910968 29/12/22 </div><div>Toby Leak</div><div> </div><div>Video - https://youtu.be/SDj3p1_kTaw </div><div> </div><div>7/12/22KT - Plans ordered 2134667 </div><div> </div><div>08/12 AS - Plans attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->	Potable	3	CLOSE	12/7/2022 10:08:07 AM	12/21/2022 11:23:33 PM	12/7/2022 10:08:17 AM	Note from Council		Toby Leak
									12/7/2022 10:23:16 AM	Plans ordered		7/12/22KT - Plans ordered 2134667 <!-- RICH TEXT -->
									12/8/2022 7:27:05 AM	Plans attached		<div>Plans attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->
									12/13/2022 4:16:52 PM	Note from Council		Toby Leak - ** 13/12/22 - Leak has been repaired in the road and now the water is coming out of the lawn. Someone has put a cone on the grass, where fountains used to be. has pushed the problem else where. 7(2)(a)
									12/29/2022 11:04:46 AM	CAR R910968 29/12/22		7(2)(a) Daughter of Owner
UHCC17400R	UHCC_PWP014358	Reinstatement: Leaky Connection 55 Kashmir Avenue	<div>CAR R910968 29/12/22 </div><div>Reinstatement Type Required: Topsoil (Grassed Area)</div><div>Area/Size: 2m2</div><div>Requirements: Requires topsoil</div><!-- RICH TEXT -->	Potable	4	CLOSE	12/21/2022 11:31:43 PM	1/30/2023 2:37:28 PM				
UHCC26820	No Asset Selected	Leaking Gate Valve @ 2 LPM : 55 Kashmir Avenue	<div>There is a leak through the concrete in the middle of the driveway between 55 and 65 Kashmir Ave. It is not gushing, but it is constantly weeping. Forming a pool. Customer reiterated that it is not the same as the leak reported for 63 Kashmir (24661).</div><div> </div><div>03/05 DC - Plans ordered - 2393225</div><div> </div><p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</p><p></p></div>Caution: There is Core Network in the area provided on the plan(s). </div><div> </div><div>06/05 HS Plans	Potable	3	INPRG.H D.PAUSE	5/3/2024 4:11:12 PM		5/3/2024 4:11:22 PM	Note from Council		There is a leak through the concrete in the middle of the driveway between 55 and 65 Kashmir Ave. It is not gushing, but it is constantly weeping. Forming a pool. Customer reiterated that it is not the same as the leak reported for 63 Kashmir (24661).
									5/3/2024 4:48:50 PM	Plans ordered - 2393225		
									5/6/2024 2:31:39 PM	Plans attached		<p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</p></div>Caution: There is Core Network in the area provided on the plan(s). </div><!-- RICH TEXT -->
									5/21/2024 9:27:34 AM	Gate valve leak in shared driveway. Previously reported		
									5/27/2024 10:04:39 AM	A		Leak on back of gate valve for shared service in the asphalt drive .600 mm deep Set up own site 2 x man crew power pole 3.5 mtr away
									5/27/2024 10:13:40 AM	Leak on back of gate valve for shared service in the asphalt drive .600 mm deep Set up own site 2		
									5/28/2024 10:22:13 AM	A		Close approach for power done
									5/28/2024 10:23:32 AM	Close approach for power done		

				attached </div><div> </div><!-- RICH TEXT -->						5/28/2024 12:25:54 PM	2man per 7(2)	2man per 7(2) <!-- RICH TEXT -->
53 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC19016	UHCC_PWP014360	Leaky Connection 53 Kashmir Ave	<div>CAR R960649 </div><div>Toby leaking since Thursday.</div><div>7/3 KS Plans ordered 2173231</div><div>08/03 RCW - Plans attached - Awaiting Powerco Gas</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> 9/3 LG- powerco plans attached </div><!-- RICH TEXT -->	Potable	3	CLOSE	3/6/2023 12:17:46 PM	7/4/2023 3:54:33 PM	3/6/2023 12:17:56 PM	Note from Council	Toby leaking since Thursday.
				3/7/2023 2:46:19 PM	7/3 KS Plans ordered 2173231	7/3 KS Plans ordered 2173231<!-- RICH TEXT -->						
				3/8/2023 4:52:42 PM	Plans attached - Awaiting Powerco Gas	<div> Plans attached - Awaiting Powerco Gas</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </div><!-- RICH TEXT -->						
				3/9/2023 11:18:14 AM	plans attached	9/3 LG- powerco plans attached <!-- RICH TEXT -->						
				8/9/2023 3:07:33 PM	CAR R960649							
WO-377830	UHCC_PWP014359	RWL: Leaking Toby @ 2 LPM : 53 Kashmir Avenue, Clouston Park, Upper Hutt, (1 Man Crew)	<div>RWL: █████ have identified a leaking Toby on the 06/10/2023 @ 2 LPM : Located on the footpath and it is visible </div><div> 16/10/2023 HJR - I have ordered the plans </div><div>2291573</div><div> 24/10/2023 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div> <div>Caution: There is Core Network in the area provided on the plan(s).</div><div> 24/10/2023 HJR -I have assigned a 1 man crew </div><div> 24/01/2024 HJR - I have re ordered the plans </div><div> </div><div>2340460</div><div>30/01/2024 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div> <div><span style="font-size:9.0pt;font-family:"Calibri",sans-serif;mso-fareast-font-family:	Potable	4	PRECLAIM	10/16/2023 8:48:22 AM	2/27/2024 3:07:43 PM	10/16/2023 8:52:06 AM	RWL: █████ have identified a leaking Toby on the 06/10/2023 @ 2 LPM : Located on the footpath and it is visible <!-- RICH TEXT -->	RWL: █████ have identified a leaking Toby on the 06/10/2023 @ 2 LPM : Located on the footpath and it is visible <!-- RICH TEXT -->	
				10/16/2023 8:53:37 AM	16/10/2023 HJR - I have ordered the plans 2291573	<div>16/10/2023 HJR - I have ordered the plans </div><div>2291573</div><!-- RICH TEXT -->						
				10/24/2023 10:08:11 AM	24/10/2023 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in t	<div>24/10/2023 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s). </div><!-- RICH TEXT -->						
				10/24/2023 10:17:54 AM	24/10/2023 HJR -I have assigned a 1 man crew	24/10/2023 HJR -I have assigned a 1 man crew <!-- RICH TEXT -->						
				1/29/2024 3:08:22 PM	24/01/2024 HJR - I have re ordered the plans 2340460	<div>24/01/2024 HJR - I have re ordered the plans </div><div> </div><div>2340460</div><!-- RICH TEXT -->						
				1/30/2024 3:04:36 PM	30/01/2024 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in t	<div>30/01/2024 HJR - I have attached the plans Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s). </div><!-- RICH TEXT -->						

				Calibri;mso-fareast-theme-font:minor-latin;color:red;mso-ansi-language:EN-NZ;mso-fareast-language:EN-NZ;mso-bidi-language:AR-SA">Caution: There is Core Network in the area provided on the plan(s). </div><!-- RICH TEXT -->								
51 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC10430	UHCC_PW011313	Leaky Connection 51 KASHMIR AVENUE	<div>CAR R796581 11/08/21 </div><div>Water Leak outside 51 kashmir av - its on the driveway part on the footpath - close to the letterbox.</div><div> </div><div>24/6/21 1409 - 1857857 Plans Ordered </div><div>plans attached </div><div>23/06/21 sk - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div><!-- RICH TEXT -->	Potable	3	CLOSE	6/24/2021 12:47:18 PM	8/10/2021 11:33:47 AM	6/24/2021 12:48:20 PM	Note from Council	Water Leak outside 51 kashmir av - its on the driveway part on the footpath - close to the letterbox.
									6/24/2021 2:11:38 PM	24/6/21 1409 - 1857857 Plans Ordered	<div>24/6/21 1409 - 1857857 Plans Ordered </div><!-- RICH TEXT -->	
									6/25/2021 9:15:42 AM	plans attached	<div>23/06/21 sk - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->	
									7/14/2021 7:40:58 AM	2man crew. service leak in driveway.		
									8/10/2021 11:32:36 AM	Repair 20mm l'd PE service.	Plans, locator, waited for residents to remove vehicles, set up TMP, removed AC driveway to expose pin hole in 20mm l'd PE service. Clamped off pin hole, no leaks, removed spoil, sourced more backfill, (compacted) tempsealed cleaned site and removed TMP.	
	UHCC10430R	UHCC_PW011313	Reinstatement: Leaky Connection 51 KASHMIR AVENUE	<div>CAR R796581 11/08/21</div><div>Reinstatement Type Required: Asphalt (Footpath)</div><div>Area/Size: 1m2</div><div>Requirements: Driveway</div><!-- RICH TEXT -->	Potable	4	CLOSE	8/10/2021 11:37:36 AM	9/9/2021 12:59:44 PM			
45 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC19522	No Asset Selected	Leaky Connection 45 Kashmir Avenue	A bit of a leak on the shared driveway/ verge coming through the concrete. Small stream running down the gutter. Tried to take a photo but the file format opinions arenâ€™t compatible with an iPhone.	Potable	3	CLOSE. DUP	4/4/2023 11:40:59 AM	4/11/2023 2:56:24 PM	4/4/2023 11:41:10 AM	Note from Council	A bit of a leak on the shared driveway/ verge coming through the concrete. Small stream running down the gutter. Tried to take a photo but the file format opinions arenâ€™t compatible with an iPhone.
									4/11/2023 2:56:11 PM	Duplicate of UHCC18559 cancel and relate	Duplicate of UHCC18559 cancel and relate<!-- RICH TEXT -->	
44 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC6038	UHCC_PWP020581	Leaky Connection 44 Kashmir Avenue	<div>CAR 840513 9/09/20 </div><div>LEAK DETECTION SURVEY: Service leak not surfacing marked across the Road near the Road edge.Estimated leak size at 3 litres per minute.</div><!-- RICH TEXT -->	Potable	3	CLOSE	8/14/2020 9:47:19 AM	9/9/2020 3:30:48 PM	8/18/2020 12:13:44 PM	Assigning to 7(2)	
									8/21/2020 11:52:43 AM	Leak outside #55 in the road next to power pole.	Have rung w.e for close approach permit, booked in for Monday morning. Will also need pole holder and traffic management.	
	UHCC6038R	UHCC_PWP020581	Reinstatement: Leaky Connection 44 Kashmir Avenue	<div>CAR 840513 9/09/20 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: </div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	9/8/2020 7:05:07 PM	9/28/2020 9:32:39 AM			
43 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC18559	UHCC_PWP014363	Leaky Connection 43 Kashmir Ave, Clouston Park Road	<div>CAR R934212 </div><div>Ground wet - slow leak</div><div> </div><div>9/02-AI-Plans ordered 2159840</div><div> </div><div>10/02-AI-Plans attached</div><div>Caution: There is a High Capacity and/or Fibre Network in the	Potable	3	CLOSE	2/9/2023 9:21:58 AM	4/13/2023 7:54:58 AM	2/9/2023 9:22:13 AM	Note from Council	Ground wet - slow leak
									2/9/2023 3:35:30 PM	Plans ordered 2159840	Plans ordered 2159840<!-- RICH TEXT -->	
									2/10/2023 3:22:15 PM	Plans attached	<div>Plans attached</div><div>Caution: There is a High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->	
									2/13/2023 3:34:05 PM	Note from Council	Ground wet - slow leak **Water leak on public property 43 Kashmir Avenue, Clouston Park, Upper Hutt 5018,	

				area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->								<p>New Zealand Map</p> <p>Water is pouring out from the berm</p> <p>7(2)(a)</p>
										3/23/2023 2:12:49 PM	Note from Council	<p>Ground wet - slow leak</p> <p>** 10/02/2023 2:38 PM [redacted] Ph: [redacted] - Leak is lifting the grass and is getting worse</p> <p>**Water leak on public property 43 Kashmir Avenue, Clouston Park, Upper Hutt 5018, New Zealand Map</p> <p>Water is pouring out from the berm</p> <p>7(2)(a)</p> <p>** 27/02/2023 9:41 AM 7(2)(a) - Water is pouring out from the berm</p> <p>** 20/03/2023 3:11 PM [redacted] - Water leaking at front of driveway and flowing into drain. Has been doing so sure more than a week. Why does there seem to be so many leaks on Kashmir Ave? Whenever over gets fixed another emerges. It's like Whackamole.</p> <p>** 23/03/2023 1:47 PM 7(2)(a) [redacted] pouring out of blue-topped at Upper Hutt City Council Water Supplyâ€™™ Toby in front of #43 letterbox. Stream pouring down drain - urgently needs fixing. 1x photo attached.</p>
										3/24/2023 8:48:12 AM	Email from UHCC	<p><div>Email from UHCC 24/03 8:17am:</div><div> </div><div> </div><p class="MsoNormal">Hey Team,</p></p> <p><p class="MsoNormal">Just letting you know we are getting a lot of calls for Kashmir ave because there are now three leaks on the street and one that was repaired and awaiting reinstatement. We have advised 8 weeks for repairs.</p></p> <p><p class="MsoNormal">Thanks</p></p> <p><p class="MsoNormal">Enisha Kilikelly</p></div><div>Customer Services Manager </div><!-- RICH TEXT --></p>
										3/24/2023 9:26:19 AM	Email response to UHCC	<p><div>Email response to UHCC 24/03 9:25am:</div><div> </div><p class="MsoNormal">Hi [redacted]</p></p> <p><p class="MsoNormal">Thank you for letting us know.</p></p> <p><p class="MsoNormal">I have left notes on UHCC18559 (43 Kashmir Ave, Clouston Park) advising of the increase in calls from the public due to multiple leaks on Kashmir Avenue.</p></p> <p><p class="MsoNormal">I noticed there was a note left on</p>

this job yesterday, confirming a customer had emailed through a photo of the leak worsening. But we are unable to see this photo on our end. Can this please be forwarded on to us, as it will help with reassessing the priority of this leak.

Regarding the reinstatement job for 27 Kashmir Avenue, these types of jobs can take months for our team to action. This is due to the preparations that are required for these jobs. If it is reported that the temporary seal is leaking, we will require a new job to be logged for our service delivery crew to investigate. We also recommend to log a new job if the temporary seal is reportedly damaged or a safety concern.

Photos showing the temporary seal issue or leak will help us appropriately prioritise the job when we receive it.

Kind regards,

<p style="font-size: 12.6pt; margin: 0;"> [REDACTED] (She/Her) Customer Support Team </o:p></o:p></p></td> </p>
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3/31/2023 5:01:34 PM	Customer called in.	Customer called in advising leak getting worse. Advised would follow up with crew. <!-- RICH TEXT -->
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4/5/2023 11:14:28 AM	Service leak on berm pass to crew with traffic..narrow street..plans attached..	
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4/19/2023 9:34:13 AM	CAR R934212	
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42 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC9290	No Asset Selected	Leaking Pipes 42 Kashmir Avenue	Leak detection survey: Service leak.	Potable	3	CLOSE	3/29/2021 4:12:28 PM	4/13/2021 9:31:26 AM	3/29/2021 4:13:24 PM	Note from Council	Leak detection survey: Service leak.
										3/30/2021 2:40:13 PM	Leak detection - will be attended by [REDACTED]	Leak detection survey - will be attended by [REDACTED] <!-- RICH TEXT -->
										4/27/2021 9:31:24 AM	Job Completed by [REDACTED]	Job Completed by [REDACTED] <!-- RICH TEXT -->

	UHCC14410	UHCC_PWP014358	Leaky Connection 42 Kashmir Avenue, Clouston Park (ROVER)	<div>25/05/2022 CAR R861398 </div><div>Water running from sidewalk road outside 42 Kashmir Ave.</div></div><!-- RICH TEXT -->	Potable	3	CLOSE	5/2/2022 7:30:35 AM	5/25/2022 1:06:43 PM	5/2/2022 7:30:51 AM	Note from Council	Water running from sidewalk road outside 42 Kashmir Ave.
										5/6/2022 2:03:24 PM	Contacted customer - Assigned	Contacted customer for location(road/footpath) advised he was unsure but said the water can be heard running under the asphalt from a few houses away. Assigned to rover to investigate further.<!-- RICH TEXT -->
										5/25/2022 2:47:58 PM	CAR R861398	CAR R861398<!-- RICH TEXT -->
	UHCC14410R	UHCC_PWP014358	Reinstatement: Leaky Connection 42 Kashmir Avenue, Clouston Park (ROVER)	<div>25/05/2022 CAR R861398 </div><div>Reinstatement Type Required: Asphalt (Footpath)</div><div>Area/Size: </div><div>Requirements: </div></div><!-- RICH TEXT -->	Potable	4	CLOSE	5/25/2022 1:07:13 PM	2/3/2023 9:54:47 AM	7/13/2022 12:27:26 PM	Status Change to PAUSE	Concrete Reinstatement.
40 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	WO-285404	No Asset Selected	SC-RWL: Service leak: 40 Kashmir Avenue, Clouston Park, Upper Hutt, (2 Man)	<div>RWL: Leak detection has identified a Service leak on the road located 24/01/2023 . @ 6 LPM this is not visible </div><div> </div><div>03/02/2023 HJR - I have ordered the plans - 2157331</div><div> </div><div>08/03/2023 HJR - I have attached all the plans </div><div> </div><div> Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><div>08/02/2023 HJR - I have assigned a 2 Man Crew </div><p><o:p></p></div></div><!-- RICH TEXT -->	Potable	3	CLOSE DUP	2/3/2023 1:26:43 PM	9/27/2023 3:12:54 PM	2/3/2023 1:31:24 PM	RWL: Leak detection has identified a Service leak on the road located 24/01/2023 .	RWL: Leak detection has identified a Service leak on the road located 24/01/2023 . @ 6 LPM this is not visible <!-- RICH TEXT -->
										2/3/2023 1:33:57 PM	03/02/2023 HJR - I have ordered the plans - 2157331	03/02/2023 HJR - I have ordered the plans - 2157331<!-- RICH TEXT -->
										2/8/2023 10:00:41 AM	08/03/2023 HJR - I have attached all the plans	<div> 08/03/2023 HJR - I have attached all the plans </div><div> </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->
										2/8/2023 10:01:44 AM	08/02/2023 HJR - I have assigned a 2 Man Crew	08/02/2023 HJR - I have assigned a 2 Man Crew <!-- RICH TEXT -->
										9/27/2023 3:12:28 PM	Duplicate of UHCC22247	Will cancel. have related<!-- RICH TEXT -->
	WO-377811	UHCC_PWP014360	RWL: Service leak @ 3 LPM : 40 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	<div>RWL: █████ have identified a service leak on the 10/10/2023 @ 3 LPM located in the middle of the road and this is not visible </div><div> </div><div>26/01/2024 HJR - I have ordered the plans </div><h1 class="truncate-string" style="box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI", Roboto, "Fira Sans", "Droid Sans", "Helvetica Neue", Arial, sans-serif; min-height: 1rem; text-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; background-color: rgb(255, 255, 255);">2339663</h1><div>12/03/24 EAM - Ordered plans </div><div>2364102</div></div>	Potable	4	CLOSE	10/16/2023 7:38:42 AM	4/10/2024 9:50:34 AM	10/16/2023 7:42:06 AM	RWL: █████ have identified a service leak on the 10/10/2023 @ 3 LPM located in the middle of the road	<div>RWL: █████ have identified a service leak on the 10/10/2023 @ 3 LPM located in the middle of the road and this is not visible </div><!-- RICH TEXT -->
										1/26/2024 1:17:25 PM	26/01/2024 HJR - I have ordered the plans 2339663	<div>26/01/2024 HJR - I have ordered the plans </div><h1 class="truncate-string" style="text-wrap: nowrap; box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI", Roboto, "Fira Sans", "Droid Sans", "Helvetica Neue", Arial, sans-serif; min-height: 1rem; overflow: hidden; text-overflow: ellipsis; background-color: rgb(255, 255, 255);">2339663</h1><!-- RICH TEXT -->
										2/21/2024 10:21:52 AM	Service leak in centre of road. Leak not showing	
										3/12/2024 8:45:10 AM	12/03/24 EAM - Ordered plans 2364102	<div>12/03/24 EAM - Ordered plans </div>2364102<!-- RICH TEXT -->
										3/13/2024 7:53:34 AM	13/03/24 EAM - Plans attachedCaution: There is High Capacity and/or Fibre Network in the area provid	<div>13/03/24 EAM - Plans attachedCaution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area

			7(2)(a) [Redacted] 0272514203</div></div> </div></div>22/11/22 MF Ordered plans 2126069 </div></div> </div></div>25/11 CM - Plans attached</div></div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div></div> </div></div><!-- RICH TEXT -->									7(2)(a) [Redacted] MF Ordered plans 2126069 <!-- RICH TEXT -->
UHCC17450	UHCC_PW011317	Leaky Connection 36 KASHMIR AVENUE	<div>24/01/23 CAR R914796 </div></div>The toby is still leaking just as bad after they have been a to fix it. 7(2)(a) [Redacted] </div></div> </div></div>><div>13/12 GP Plans attached from completed job UHCC16994 </div></div><!-- RICH TEXT -->	Potable	3	CLOSE	12/9/2022 12:30:42 PM	1/24/2023 11:12:44 AM	12/9/2022 12:30:57 PM	Note from Council	The toby is still leaking just as bad after they have been a to fix it. 7(2)(a) [Redacted]	
									12/13/2022 10:24:42 AM	13/12 GP Plans attached from completed job UHCC16994	13/12 GP Plans attached from completed job UHCC16994<!-- RICH TEXT -->	
									12/13/2022 10:25:24 AM	Assigned to crew to Rover	Assigned to crew to Rover<!-- RICH TEXT -->	
									1/24/2023 11:23:46 AM	CAR R914796	CAR R914796 <!-- RICH TEXT -->	
UHCC20006	UHCC_PW011317	Leaky Connection 36 Kashmir Avenue (ROVER)	Water leak on public property 36 Kashmir Avenue, Clouston Park, Upper Hutt 5018, Water leak has started in the middle of the road Your details [Redacted]	Potable	3	CLOSE	5/3/2023 7:45:41 AM	7/31/2023 3:02:37 PM	5/3/2023 7:45:56 AM	Note from Council	Water leak on public property 36 Kashmir Avenue, Clouston Park, Upper Hutt 5018, Water leak has started in the middle of the road Your details 7(2)(a) [Redacted]	
									5/4/2023 8:45:47 AM	Assigned crew to rover	Assigned crew to rover <!-- RICH TEXT -->	
UHCC21088	No Asset Selected	Leaky Connection 36 Kashmir Avenue, Clouston Park	large water leak in the middle of the road	Potable	3	CLOSE DUP	7/17/2023 2:55:48 PM	7/18/2023 12:31:46 PM	7/17/2023 2:56:00 PM	Note from Council	large water leak in the middle of the road	
									7/18/2023 12:31:39 PM	Duplicate of UHCC20006	Duplicate of UHCC20006<!-- RICH TEXT -->	
UHCC22247	UHCC_PWP014362	CSR Service leak @ 15 LPM : 36 Kashmire Avenue	<div>Customer advised of a water leak in the middle of the road, the road is starting to give way causing potholes.</div></div> </div></div>05/10/2023 HJR - RWL: [Redacted] have re-identified this leak as a service leak on the 05/10/2023 @ 15 LPM Located in the middle of the road and it is visible </div></div> </div></div>26/01/2024 HJR - We have re assigned this job back to the crew as per the email from [Redacted] </div></div> </div></div>26/01/2024 HJR - I have ordered the plans </div></div>2339722 </div></div> </div></div><!-- RICH TEXT -->	Potable	2	CLOSE	9/21/2023 10:00:30 AM	1/30/2024 9:19:58 AM	9/21/2023 10:00:42 AM	Note from Council	Customer advised of a water leak in the middle of the road, the road is starting to give way causing potholes. customer advised tied up at the moment and cannot talk<!-- RICH TEXT -->	
									9/21/2023 10:07:43 AM	Called customer	customer advised tied up at the moment and cannot talk<!-- RICH TEXT -->	
									9/21/2023 10:08:24 AM	Downgraded	only assigning Urgent jobs at the moment as per team leader, not enough information to warrant urgent dispatch, will treat as p3 water leak on road <!-- RICH TEXT -->	
									9/21/2023 10:08:49 AM	Assigned to crew to rover	Assigned to crew to rover<!-- RICH TEXT -->	
									1/26/2024 2:01:01 PM	26/01/2024 HJR - We have re assigned this job back to the crew as per the email from [Redacted] 26/01	<div>26/01/2024 HJR - We have re assigned this job back to the crew as per the email from [Redacted] </div></div> </div></div>26/01/2024 HJR - I have ordered the plans </div></div>2339722 </div></div> </div></div><!-- RICH TEXT -->	
									1/30/2024 9:19:59 AM	Service replaced, reinstatement completed. Please close job		
WO-375415	UHCC_PWP014362	RWL: Service Leak @ 15 LPM : 36 Kashmir Avenue, Clouston	<div>RWL: [Redacted] have identified a service leak on the 05/10/2023 @ 15 LPM this is visible located in the middle of the	Potable	3	CLOSE	10/6/2023 2:10:05 PM	1/30/2024 11:27:06 AM	10/6/2023 2:16:22 PM	RWL: [Redacted] have identified a service leak on the 05/10/2023	RWL: [Redacted] have identified a service leak on the 05/10/2023 @ 15 LPM this is visible located in the middle of the road <!-- RICH TEXT -->	

			Park, Upper Hutt, Wellington, 5018	road 26/01/2024 HJR - This job is being given back to the crews as per the email from 26/01/2024 HJR - I have ordered the plans					1/26/2024 1:34:47 PM	26/01/2024 HJR - This job is being given back to the crews as per the email from 7(2) 26/01/202	<div>26/01/2024 HJR - This job is being given back to the crews as per the email from 7(2) </div><div> </div><div>26/01/2024 HJR - I have ordered the plans </div>2339681 </div><!-- RICH TEXT -->	
									1/30/2024 11:27:07 AM	Service replaced reinstatement completed. Duplicate of 369100		
35 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC12337	UHCC_PWP014368	Leaking Pipes 35 Kashmir Avenue, Clouston Park	<div>CAR R833734 27/01/22 </div><div>Call In: 1007 Issue Location: Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Other Details: caller named 7(2) reports water leak on the road in front of 35 Kashmir Street. She refused to give me her details. Have spoken to 7(2) at Upper Hutt Water and passed on the details. Response Needed: Urgent - not critical Duty Officer Contacted: Spoke to Officer Name/Number: 7(2)(a) </div><div> </div><div>24/11/21 0820 KT - Plans ordered 1940125 Please add 2man when attached.</div><div> </div><div>25/11/21 kt - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </div><div> </div><div> </div><div> </div><div> </div><div> </div><div> </div><div> </div><div><!-- RICH TEXT -->	Potable	3	CLOSE	11/22/2021 8:17:08 AM	1/17/2022 3:00:18 PM	11/22/2021 8:17:33 AM	Note from Council	Call In: 1007 Issue Location: Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Other Details: caller named 7(2) reports water leak on the road in front of 35 Kashmir Street. She refused to give me her details. Have spoken to 7(2) at Upper Hutt Water and passed on the details. Response Needed: Urgent - not critical Duty Officer Contacted: Spoke to Officer Name/Number: 7(2)(a) </div><div> </div><div> assigned after hours to 7(2) </div><!-- RICH TEXT -->
									11/22/2021 2:40:43 PM	assigned after hours to 7(2)	assigned after hours to 7(2) <!-- RICH TEXT -->	
									11/23/2021 3:38:05 PM	Status Change to PAUSE	Needs 2man crew repair service leak on the road,needs traffic management	
									11/23/2021 3:39:33 PM	Status Change to PAUSE	Needs service plans attached	
									11/24/2021 8:19:32 AM	phoned order plans and assign to 2man	phoned order plans and assign to 2man <!-- RICH TEXT -->	
									11/24/2021 8:25:36 AM	Plans ordered	24/11/21 0820 KT - Plans ordered 1940125 pls add to 2man when attached <!-- RICH TEXT -->	
									11/25/2021 12:41:13 PM	Plans attached	25/11/21 kt - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). <!-- RICH TEXT -->	
									11/29/2021 1:17:07 PM	Update - Called through to after hrs	Update - Called through to after hrs 27/11 <!-- RICH TEXT -->	
									11/29/2021 1:38:14 PM	Site inspection.	Service leak in the road,requires 2man crew with traffic management.	
									11/29/2021 1:38:15 PM	Status Change to PAUSE	Reassigning to 2man crew with traffic management.	
									11/29/2021 1:41:11 PM	Status Change to PAUSE	As above	
									12/1/2021 4:23:34 PM	Note from Council	Call In: 1007 Issue Location: Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Other Details: caller named 7(2) reports water leak on the road in front of 35 Kashmir Street. She refused to give me her details. Have spoken to 7(2) at Upper Hutt Water and passed on the details. Response Needed: Urgent - not critical Duty Officer Contacted: Spoke to Officer Name/Number: 7(2)(a) </div><div> </div><div> ** 1/12/21 - Photo's from 7(2)(a) - Roading Engineer UHCC Photo's, please upgrade and repair as soon as possible. 20 Kashmir Ave - water damage lifting seal	

										1/17/2022 9:39:38 AM	RF - Water Off	<p><p class="MsoNormal">Hi All</p></p></p></p> <p><p class="MsoNormal"></p></p></p></p> <p><p class="MsoNormal">Water will be shut off at 35 Kashmir Avenue, Clouston Park. Reference no. UHCC12337 for 1 hour from 9:45am – 10:45am.</p></p></p></p> <p><p class="MsoNormal"></p></p></p></p> <p><p class="MsoNormal">Reason for shutdown:</p></p></p></p> <ul style="list-style-type: none"> <span="" >pipe="" >service="" (service="" <="" <li="" class="MsoNormal" connection="" failure<="" hydrant="" li>="" meter)<="" p><="" repair="" span><="" style='mso-fareast-font-family: "Times New Roman";' toby="" ul="" valve=""> <p><p class="MsoNormal"></p></p></p></p> <p><p class="MsoNormal">This will affect the following</p></p></p></p> <ul style="list-style-type: none"> <span="" >1="" (odds="" -="" 20="" <="" and="" avenue="" class="MsoListParagraph" evens)<="" kashmir="" li>="" p><="" span><="" style='mso-fareast-font-family:"Times New Roman";' ul=""> <p><p class="MsoListParagraph"></p></p></p></p> <ul style="list-style-type: none"> <span="" >affecting="" 0="" 24="" <="" <li="" approximately="" class="MsoListParagraph" commercial="" li>="" p><="" properties<="" residential="" span><="" style='mso-fareast-font-family:"Times New Roman";' ul=""> <p><p class="MsoNormal"></p></p></p></p> <p><p class="MsoNormal">Kind regards</p></p></p><!-- RICH TEXT --></p>
										1/27/2022 12:24:08 PM	CAR R833734 27/01/22	
UHCC12337R	UHCC_PWP014368	Reinstatement: Leaking Pipes 35 Kashmir Avenue, Clouston Park	<div>CAR R833734 27/01/22 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: <font	Potable	4	CLOSE	1/17/2022 3:02:10 PM	1/28/2022 3:42:08 PM				

				size="2">Ash</div><!-- RICH TEXT -->								
	UHCC12996	No Asset Selected	Leaking Pipes 35 Kashmir Avenue	Bubbling in the middle of the road. She said there is a steady stream of water coming out.	Potable	3	CLOSE. CAN	1/11/2022 12:48:47 PM	1/18/2022 1:41:53 PM	1/11/2022 12:48:56 PM	Note from Council	Bubbling in the middle of the road. She said there is a steady stream of water coming out.
										1/13/2022 11:06:44 AM	Note from Council	Bubbling in the middle of the road. She said there is a steady stream of water coming out. 13/01/22 - Water is still flowing out of this this leak - 7(2)
										1/18/2022 1:41:24 PM	MP - This is a duplicate of UHCC12337R	MP - This is a duplicate of UHCC12337R. This will be cancelled and related. <!-- RICH TEXT -->
34 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC6261	UHCC_PWP014365	Leaking Pipes 34 Kashmir Avenue	<div>CAR 840501 7/092/0 </div><div>Leak detection survey: Service leak marked in the middle of the Road on a previous repair patch.</div><div> </div><div> 3/09-WE, GAS AND CHORUS PLANS ATTACHED </div><!-- RICH TEXT -->	Potable	2	CLOSE	9/1/2020 1:09:45 PM	9/5/2020 12:28:04 PM	9/1/2020 1:50:10 PM	assigning to 7(2) .	
										9/2/2020 11:12:54 AM	A	Leak on service in the road. Plans and traffic management required pass to 2 x man crew with digger
										9/2/2020 12:10:52 PM	Plans ordered	
										9/3/2020 8:51:27 AM	Plans attached	<div>WE, GAS AND CHORUS PLANS ATTACHED</div><div>
												<table border="0" cellpadding="0" cellspacing="5" style="mso-cellspacing: 3.7pt; mso-yfti-tbllook: 1184;">
												<tbody><tr style="mso-yfti-irrow: 0; mso-yfti-firstrow: yes; mso-yfti-lastrow: yes;">
												<td style="padding: 0.75pt; border: rgb(0, 0, 0); background-color: transparent;">
												<p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </p>
												</td>
												</tbody></table>
												</div><!-- RICH TEXT -->
	UHCC6261R	UHCC_PWP014365	Reinstatement: Leaking Pipes 34 Kashmir Avenue	<div>CAR 840501 7/09/20 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: </div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	9/5/2020 12:30:27 PM	9/28/2020 11:11:14 AM			
33 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC13224	UHCC_PWP020575	Leaking Pipes 33 Kashmir Avenue, Clouston Park	<div>CAR R845772 17/03/22 </div><div>Slow water leak from the toby box. The leak started yesterday.</div><div> </div><div>01/02 RF - Plans ordered 1969634 </div><div> </div><div>3/2 SD - Plans Attached </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><div><!-- RICH TEXT -->	Potable	3	CLOSE	1/25/2022 4:56:46 PM	3/17/2022 3:05:02 PM	1/25/2022 4:56:59 PM	Note from Council	Slow water leak from the toby box. The leak started yesterday.
										2/1/2022 10:49:40 AM	Plans ordered 1969634	Plans ordered 1969634 <!-- RICH TEXT -->
										2/3/2022 4:44:30 PM	Plans attached	<div>3/2 SD - Plans Attached </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT -->
										2/18/2022 11:50:37 AM	Note from Council	18/2 Leak pouring across footpath and into gutter. 25/1 Slow water leak from the toby box. The leak started yesterday.
										2/24/2022 7:25:30 AM	Assinged to 7(2)	Assinged to 7(2)(a) CC<!-- RICH TEXT -->
										3/11/2022 2:38:07 PM		
										3/17/2022 3:51:26 PM	CAR R845772 17/03/22	
	UHCC13224R	No Asset Selected	Reinstatement: Leaking Pipes 33 Kashmir Avenue, Clouston Park	<div>CAR R845772 17/03/22 </div><div>Reinstatement Type Required: Asphalt	Potable	4	CLOSE	3/17/2022 3:07:10 PM	6/3/2022 1:22:00 PM	5/31/2022 12:36:58 PM	Call from 7(2)(a)	7(2)(a) called in to advise one of his contractors hit a fibre cable. Spoke with Chorus, reference number is SD4718925<!-- RICH TEXT -->

				DRIVEWAY						5/31/2022 2:27:12 PM	Status Change to PAUSE	1		
	UHCC13382	No Asset Selected	Leaky Connection 33 Kashmir Avenue, Clouston Park	Water Type: Water	Potable	3	CLOSE. CAN	2/4/2022 11:08:08 AM	2/15/2022 11:03:52 AM	2/4/2022 11:08:16 AM	Note from Council	Water Type: Water		
										2/4/2022 11:08:43 AM	Note from Council	Toby Leak, small amount of water at this stage		
										2/15/2022 11:02:40 AM	Cancelled - DUPLICATE	Cancelled duplicate of UHCC13224<!-- RICH TEXT -->		
	UHCC13814	No Asset Selected	Leaky Connection 33 Kashmir Avenue, Clouston Park	Water Leak coming from the Water Toby on the Berm outside 33 Kashmir Ave, Clouston Park, Upper Hutt. Flow is very slow.	Potable	3	CLOSE. CAN	3/7/2022 11:20:17 AM	3/11/2022 2:35:44 PM	3/7/2022 11:20:31 AM	Note from Council	Water Leak coming from the Water Toby on the Berm outside 33 Kashmir Ave, Clouston Park, Upper Hutt. Flow is very slow.		
										3/11/2022 2:32:27 PM	Duplicate of UHCC13224	11/03 LW Duplicate of UHCC13224.<!-- RICH TEXT -->		
	UHCC26235	UHCC_PW012697	Leaky Connection 33 Kashmir Ave	<div>7(2)(a) has been in to report her toby is starting to leak and she would like it looked at before it gets worse</div></div></div>28/3 LS - Plans ordered 2374218 </div></div>02/04 DC - Plans attached</div></div></div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div></div>Caution: There is Core Network in the area provided on the plan(s).</div></div></div><!-- RICH TEXT -->	Potable	4	INPRG.H D.REVIEW	3/28/2024 12:15:00 PM		3/28/2024 12:15:12 PM	Note from Council	7(2)(a) has been in to report her toby is starting to leak and she would like it looked at before it gets worse		
										3/28/2024 2:17:37 PM	Plans ordered 2374218	Plans ordered 2374218 <!-- RICH TEXT -->		
										4/2/2024 2:17:45 PM	Plans attached			
										4/22/2024 1:35:07 PM	Private leak in driveway. Half meter inside toby			
	UHCC26714	No Asset Selected	Leaking Pipes 33 Kashmir Avenue	Leak in the road outside 33 Kashmir. Not the same as the one in the berm.	Potable	3	CLOSE. DUP	4/29/2024 9:32:26 AM	4/30/2024 3:34:04 PM	4/29/2024 9:32:35 AM	Note from Council	Leak in the road outside 33 Kashmir. Not the same as the one in the berm.		
										4/30/2024 3:34:00 PM	Cancelled and related to - UHCC26711			
	UHCC27094	No Asset Selected	Leaky Connection 33 Kashmir Avenue	Broken toby at the end of the driveway.	Potable	3	CLOSE. DUP	5/21/2024 10:19:17 AM	5/22/2024 12:26:08 PM	5/21/2024 10:58:44 AM	Note from Council	Broken toby at the end of the driveway.		
										5/22/2024 12:26:08 PM	related to UHCC26235, closing job	related to UHCC26235, closing job <!-- RICH TEXT -->		
32 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC6039	UHCC_PW011321	Leaky Connection 32 Kashmir Avenue	<div>CAR 840500 7/09/20 </div></div>LEAK DETECTION SURVEY: Service leak which is a new leak. Not surfacing marked on the Road. Estimate leak size at 6 litres per minute.</div></div></div>01/09/20 / JC - WE, CHORUS, GAS PLANS ATTACHED. </div></div></div><table border="0" cellpadding="0" cellspacing="5"><tbody><tr><td style="padding:.75pt .75pt .75pt .75pt;"> Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </td></tr></tbody></table></div></div><!-- RICH TEXT -->	Potable	3	CLOSE	8/14/2020 9:48:56 AM	9/5/2020 2:22:12 PM	8/14/2020 4:02:30 PM	see below	8/17/2020 4:20:22 PM	A	assigning to 7(2). <!-- RICH TEXT -->
										8/17/2020 4:24:43 PM	update	Service leak in the road plans and traffic management required pass to 2 x man crew with digger plans ordered as per <!-- RICH TEXT -->		
										9/1/2020 4:15:06 PM	WE, CHORUS, GAS PLANS ATTACHED			
										9/1/2020 4:15:16 PM		<table border="0" cellpadding="0" cellspacing="5"><tbody><tr><td style="padding:.75pt .75pt .75pt .75pt;"> Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </td></tr></tbody></table><!-- RICH TEXT -->		
										9/1/2020 4:15:16 PM				
	UHCC6039R	UHCC_PW011321	Reinstatement: Leaky Connection 32 Kashmir Avenue	<div>CAR 840500 7/09/20 </div></div>Reinstatement Type Required: Asphalt (Road)</div></div>Area/Size: </div></div>Requirements: </div></div><!-- RICH TEXT -->	Potable	4	CLOSE	9/5/2020 2:25:28 PM	9/28/2020 11:09:07 AM					

	UHCC7691	No Asset Selected	Leaky Connection 32 Kashmir Avenue, Clouston Park	<div>Toby leak - on the lawn just off the footpath</div><div>Plans attached for before u dig, Chorus, WE & Gas. </div><table border="0" cellpadding="0" cellspacing="5"><tbody><tr><td style="padding: 0.75pt;">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </td></tr></tbody></table></div><div><!-- RICH TEXT --></div>	Potable	3	CLOSE	12/16/2020 10:00:23 AM	1/15/2021 11:20:31 AM	12/16/2020 10:01:25 AM	Note from Council	Toby leak - on the lawn just off the footpath
										12/17/2020 1:27:40 PM	Service plans ordered	
										12/17/2020 1:32:14 PM	Text sent	
										12/21/2020 4:17:20 PM	Service plans attached	<div>Plans attached for before u dig, Chorus, WE & Gas. </div><table border="0" cellpadding="0" cellspacing="5"><tbody><tr><td style="padding:.75pt .75pt .75pt .75pt;">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </td></tr></tbody></table></div><!-- RICH TEXT --></div>
	UHCC8712	No Asset Selected	Leaky Connection 32 Kashmir Avenue, Clouston Park	<div>This Toby is leaking again - repaired under Job No. 7691 on 25th Jan 21. Water is pooling on the property around it.</div><div>12/03/21 JB Plans attached: Chorus, Gas & WE: </div><table border="0" cellpadding="0" cellspacing="5" class="MsoNormalTable"><tbody><tr><td style="padding:.75pt .75pt .75pt .75pt;"><p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). <o:p></o:p></p></td></tr></tbody></table><!-- RICH TEXT --></div>	Potable	3	CLOSE	2/26/2021 9:09:40 AM	3/30/2021 11:17:24 AM	2/26/2021 9:10:26 AM	Note from Council	This Toby is leaking again - repaired under Job No. 7691 on 25th Jan 21. Water is pooling on the property around it.
										3/4/2021 12:36:19 PM	left a voicemail for the customer. plans ordered	Advised we will be ordering service plans and get team out as soon as we can. <!-- RICH TEXT --></div>
										3/12/2021 11:39:50 AM	All plans attached	<div>12/03/21 JB Plans attached: Chorus, Gas & WE: </div><table border="0" cellpadding="0" cellspacing="5" class="MsoNormalTable"><tbody><tr><td style="padding: 0.75pt;"><p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).<o:p></o:p></p></td></tr></tbody></table><!-- RICH TEXT --></div>
	UHCC9294	No Asset Selected	Leaky Connection 32 Kashmir Avenue	Leak detection survey: Leaking Toby	Potable	3	CLOSE	3/30/2021 9:02:51 AM	4/7/2021 1:00:30 PM	3/30/2021 9:03:23 AM	Note from Council	Leak detection survey: Leaking Toby
										3/30/2021 9:13:16 AM	Leak detection - [REDACTED] will attend	Leak detection survey - this will be attended by [REDACTED] <!-- RICH TEXT --></div>
32 Kashmir Avenue, Clouston Park, Upper Hutt, 5018	UHCC5446	UHCC_PWP014367	Leaking Pipes 32 Kashmir Avenue	<div>CAR 840290 13/07/20 </div><div>09/07 Notes as per 7(2)(a) 01/07 Leak on service in the road where marked plans and traffic management required pass to 2 x man crew with digger </div><div>09/07 sk - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </div><div>Leak detection survey: Service leak marked on the Road shoulder at a previous repair patch.</div><!-- RICH TEXT --></div>	Potable	3	CLOSE	6/30/2020 9:49:56 AM	8/27/2020 2:04:29 PM	6/30/2020 12:20:28 PM	Logged by [REDACTED]	
										7/1/2020 10:52:41 AM	A	Leak on service in the road where marked plans and traffic management required pass to 2 x man crew with digger
										7/1/2020 11:28:54 AM	Per 7(2)(a)- Ordered plans.	
										7/9/2020 1:54:10 AM	Plans attached	
	UHCC5446R	UHCC_PWP014367	Reinstatement: Leaking Pipes 32 Kashmir Avenue	<div>CAR 840290 13/07/20 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: </div><!-- RICH TEXT --></div>	Potable	4	CLOSE	7/13/2020 5:00:12 AM	11/13/2020 7:40:04 AM	8/27/2020 2:06:13 PM	Reopened for 7(2) to upload correct photos	Completed reinstatement photos are for 35 Kashmir. <!-- RICH TEXT --></div>
30 Kashmir Avenue, Clouston	UHCC18784	No Asset Selected	Leaky Connection 30 Kashmir Av, Upper Hutt	Water leak on my property 30 Kashmir Avenue, Clouston Park, Upper Hutt 5018, New Zealand Map	Potable	2	CLOSE. DUP	2/20/2023 4:43:35 PM	2/21/2023 9:20:45 AM	2/20/2023 4:44:00 PM	Note from Council	Water leak on my property 30 Kashmir Avenue, Clouston Park, Upper Hutt 5018, New Zealand Map

Park, Upper Hutt, Wellington, 5018				<p>(-41.1180341, 175.0807482) Water is leaking from the Toby at the front our property. I suspect this is also happening at our neighbour's house at number 28 as there is a patch of lawn which is growing much faster than the rest of their grass.</p> <p>The toby at our house (30 Kashmir) is in front of the fence in the middle of the property. Conscious we have water restrictions right now so keen that more water is not wasted.</p> <p>I also note the leak I reported across the road at number 29 is still not repaired. I initially reported this in early January.</p> <p>Your details [REDACTED]</p>								<p>(-41.1180341, 175.0807482) Water is leaking from the Toby at the front our property. I suspect this is also happening at our neighbour's house at number 28 as there is a patch of lawn which is growing much faster than the rest of their grass.</p> <p>The toby at our house (30 Kashmir) is in front of the fence in the middle of the property. Conscious we have water restrictions right now so keen that more water is not wasted.</p> <p>I also note the leak I reported across the road at number 29 is still not repaired. I initially reported this in early January.</p> <p>Your details [REDACTED]</p>
	UHCC27057	UHCC_PWP019548	Leaky Connection 30 Kashmir Avenue	<p>Caller advised water is shooting out of the middle of the road on Cashmere outside of approximately 30 Kashmir Avenue.</p>	Potable	3	INPRG.H D.REVIE W	5/20/2024 9:08:14 AM		5/20/2024 9:08:22 AM	Note from Council	<p>Caller advised water is shooting out of the middle of the road on Cashmere outside of approximately 30 Kashmir Avenue.</p>
										5/20/2024 9:15:57 AM	Called customer - left vm	<p>Called customer - left vm. Deepdive if they call back. Haven't had any other reports for this and job was only just passed through to us from Friday. Downgrade to P2 until we get further information <!-- RICH TEXT --></p>
										5/20/2024 12:46:57 PM	Called customer	<p>Called customer - said the leak is coming out from the middle of the road. Described the leak to be gushing like a tap on full. No damage at this stage. Customer doesn't live in the area to identify any further issues. Customer to send photos to help assess. <!-- RICH TEXT --></p>
										5/20/2024 12:49:29 PM	Downgrade to P3	<p>Downgrade to P3 - haven't had any other reports for this. Awaiting customers photos to help assess <!-- RICH TEXT --></p>
										5/21/2024 9:21:44 AM	Large service leak in centre of road, needs attention. Has been reported previously as urgent	
WO-267605	UHCC_SWCP004679	RWL: 30 Kashmir Avenue, Clouston Park (1MAN)		<p><div>[REDACTED] identified and marked a leaking toby in the berm on 8/12/2022. 1LPM Visible.</div><div>ES 19/12/2022 Plans ordered 2140183</div><div><div>ES 20/12/2022 Plans attached </div><div> <b style="">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div></div><div>21/02-AI-New plans ordered <span style="font-size: x-small; background-color: rgb(255, 255, 255); color: rgba(0, 0, 0, 0.87); font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI", Roboto, "Fira Sans", "Droid Sans", "Helvetica Neue", Arial, sans-serif; font-weight:</p>	Stormwater	4	CLOSE	12/19/2022 1:16:05 PM	2/21/2023 11:17:43 AM	12/19/2022 1:19:27 PM	RWL [REDACTED] Notes	Footpath and kerb marked, Toby/ old style.<!-- RICH TEXT -->
										12/19/2022 1:20:58 PM	Plans ordered	<p>ES 19/12/2022 Plans ordered 2140183<!-- RICH TEXT --></p>
										12/20/2022 2:39:57 PM	Plans attached	<p><div>ES 20/12/2022 Plans attached </div><div> <b style="">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><!-- RICH TEXT --></p>
										12/22/2022 7:49:29 AM	Assigned to 1 Man	Assigned to 1 Man<!-- RICH TEXT -->
										2/21/2023 9:22:19 AM	p2 came through for this one.	p2 came through for this one.<!-- RICH TEXT -->
										2/21/2023 9:25:35 AM	New plans ordered 2165017	<p>New plans ordered 2165017<!-- RICH TEXT --></p>
										2/21/2023 10:06:08 AM	Assigned to 7(2) to rover.	Assigned to 7(2) to rover.<!-- RICH TEXT -->

				700; white-space: nowrap;">2165017 </div><div> </div><div>2 2/2 LG plans attached </div><div> waiting on powerco plans </div><div> <b style="font-size: small;">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(</div><div> </div><div> 23/2 Powerco plans attached </div><!-- RICH TEXT -->						2/22/2023 8:51:32 AM	waiting on powerco plans	<div>22/2 LG waiting on powerco plans </div><!-- RICH TEXT -->
										2/22/2023 8:53:50 AM	waiting on powerco plans	<div>waiting on powerco plans </div><div> <b style="font-size: small;">Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(</div><!-- RICH TEXT -->
										2/23/2023 8:37:49 AM	plans attached	23/2 Powerco plans attached <!-- RICH TEXT -->
28 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC21082	UHCC_PW011319	Leaky Connection 28 Kashmir Avenue	<div>CAR R965451</div><div>Water is leaking from the berm</div><div> </div><div> </div><div> 18/07-AI-Plans ordered 2241673</div><div> </div><div>21/7 KS - Plans attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s)</div><div> </div><div> </div><!-- RICH TEXT -->	Potable	3	CLOSE	7/17/2023 12:01:06 PM	7/24/2023 11:47:03 AM	7/17/2023 12:01:17 PM	Note from Council	Water is leaking from the berm
										7/18/2023 10:54:06 AM	Plans ordered 2241673	Plans ordered 2241673<!-- RICH TEXT -->
										7/21/2023 2:17:27 PM	Plans attached	Plans attached<!-- RICH TEXT -->
										8/30/2023 10:28:02 AM	CAR R965451	
	UHCC21082R	UHCC_PW011319	Reinstatement: Leaky Connection 28 Kashmir Avenue	<div>CAR R965451</div><div>Reinstatement Type Required: Topsoil (Grassed Area)</div><div>Area Size: </div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	8/30/2023 10:27:11 AM	3/5/2024 7:39:35 AM			
	UHCC27371	No Asset Selected	Leaking Pipes 28 Kashmir Avenue	Water leak in the middle of the road. Water running like a river.	Potable	2	CANCEL .DUP	6/4/2024 4:51:52 PM	6/4/2024 4:59:23 PM	6/4/2024 4:52:01 PM	Note from Council	Water leak in the middle of the road. Water running like a river.
										6/4/2024 4:59:21 PM	Duplicate of UHCC27057	Duplicate of UHCC27057<!-- RICH TEXT -->
27 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC18011	UHCC_PWP014369	RWL: Service Leak: 27 Kashmir Avenue, Clouston Park (2PCREW/DIGGER)	<div>CAR R923272 02/03/23 </div><div>Water leak on public property</div><div> </div><div>01/02/2023 HJR - RWL have reidentified this leak as a Service leak. 12 LPM . This is visible on the road </div><div> </div><div>01/02/2023 HJR - I have ordered the plans - 2155755</div> </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). </div><div> </div><div> </div><div>03/02/2023 HJR - I have attached the plans </div><!-- RICH TEXT -->	Potable	3	CLOSE	1/16/2023 12:13:40 PM	2/23/2023 8:23:04 PM	1/16/2023 12:13:49 PM	Note from Council	Water leak on public property
										1/18/2023 2:11:20 PM	Assigned to crew to rover	Assigned to crew to rover<!-- RICH TEXT -->
										2/1/2023 12:58:58 PM	01/02/2023 HJR - I have ordered the plans - 2155755	01/02/2023 HJR - I have ordered the plans - 2155755<!-- RICH TEXT -->
										2/3/2023 10:24:12 AM	03/02/2023 HJR - I have attached the plans	03/02/2023 HJR - I have attached the plans <!-- RICH TEXT -->
										2/3/2023 10:25:10 AM	03/02/2023 HJR - (2 Man) Crew has been assigned	
										2/9/2023 9:57:16 AM	P1 called through UHCC18560	P1 called through UHCC18560 - <i>"It's bubbling out of the road and flowing into the drain outside 31 Kashmir Ave. It's been doing this constantly for more than three weeks now."</i><!-- RICH TEXT -->
										2/20/2023 3:30:19 PM	UHCC escalation	<div> Received below email from UHCC. Rung Hub to escalate. </div><div> </div><div>Kia ora Team, </div>

										2/10/2023 8:45:13 AM	Duplicate of UHCC18011	
27 Kashmir Avenue, Clouston Park, Upper Hutt,	UHCC18011R	UHCC_PWP014369	Reinstatement: RWL: Service Leak: 27 Kashmir Avenue, Clouston Park (2PCREW/DIGGER)	<div>CAR R923272 02/03/23 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	2/23/2023 11:32:03 PM	5/11/2023 10:45:49 AM	3/24/2023 9:10:35 AM	UHCC email received	<div>UHCC email received 24/03 8:17am:</div><div></div><p class="MsoNormal">Hey Team,</p><p class="MsoNormal">Just letting you know we are getting a lot of calls for Kashmir ave because there are now three leaks on the street and one that was repaired and awaiting reinstatement. We have advised 8 weeks for repairs.</p><p class="MsoNormal">Thanks</p><p class="MsoNormal"></p><p class="MsoNormal"></p><p class="MsoNormal"></p><div>Customer Services Manager </div><!-- RICH TEXT -->
										3/24/2023 9:27:42 AM	Email response to UHCC	<div style="">Email response to UHCC 24/03 9:25am:</div><div style=""></div><p class="MsoNormal" style="">Hi a,</p><p class="MsoNormal" style="">Thank you for letting us know.</p><p class="MsoNormal" style="">Regarding the reinstatement job for 27 Kashmir Avenue, these types of jobs can take months for our team to action. This is due to the preparations that are required for these jobs. If it is reported that the temporary seal is leaking, we will require a new job to be logged for our service delivery crew to investigate. We also recommend to log a new job if the temporary seal is reportedly damaged or a safety concern.</p><p class="MsoNormal" style="">Photos showing the temporary seal issue or leak will help us appropriately prioritise the job when we receive it.</p><p class="MsoNormal" style="">Kind regards,</p><table border="0" cellpadding="0" cellspacing="0" class="MsoNormalTable" style="color: rgb(128, 128, 128); width: 934pt; border-collapse: collapse;" width="1245"><tbody><tr><td style="width: 467pt; padding: 0cm;" valign="top" width="623"><p class="MsoNormal" style="line-height: 12.6pt;"> Customer Support Team</p></td></tr></tbody></table><!-- RICH TEXT -->
25 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC25379	UHCC_PWP014374	Service leak @ 8 LPM: 25 Kashmir Avenue	<div>CAR R1015730 </div><div>water is trickling out of the road and down it.</div><div>5/03/24 EAM - Ordered plans </div><h1 class="truncate-string" style="box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI";, Roboto,	Potable	3	JOB COM P	2/19/2024 4:13:10 PM	4/9/2024 11:45:14 AM	2/19/2024 4:13:21 PM	Note from Council	water is trickling out of the road and down it.
										2/29/2024 9:59:28 AM	Leak in centre f road. Surface breaking up causing issues	
										3/5/2024 7:50:17 AM	5/03/24 EAM - Ordered plans 2360078	<div>5/03/24 EAM - Ordered plans </div><h1 class="truncate-string" style="text-wrap: nowrap; box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI";, Roboto, "Fira Sans";, "Droid

				<p>&quot;Fira Sans&quot;, &quot;Droid Sans&quot;, &quot;Helvetica Neue&quot;, Arial, sans-serif, min-height: 1rem; text-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; background-color: rgb(255, 255, 255);</p> <div>6/03/24 EAM - Plans attached Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div>
 Caution: There is Core Network in the area provided on the plan(s).</p> </p>							Sans", "Helvetica Neue", Arial, sans-serif, min-height: 1rem; overflow: hidden; text-overflow: ellipsis; background-color: rgb(255, 255, 255);</p> <div>6/03/24 EAM - Plans attached Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div>Caution: There is Core Network in the area provided on the plan(s).</p>
	UHCC25379R	UHCC_PWP014374	Reinstatement: Service leak @ 8 LPM: 25 Kashmir Avenue	<div>CAR R1015730 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: 1x1 in the road</div></p>	Potable	4	RCVD	4/9/2024 12:42:16 PM			
24 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC16739	UHCC_PW011325	Leaky Connection 24 Kashmir Avenue	<div>21/12/22 CAR R910517 </div><div>Water is leaking up from the road</div></div><div>8/11/22 KT - Plans ordered 2118929 </div><div>17/11 KS Plans attached</div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div></div> </div></div></p>	Potable	3	CLOSE	10/31/2022 9:23:29 AM	12/19/2022 2:19:30 PM	10/31/2022 9:23:39 AM Note from Council Water is leaking up from the road 11/8/2022 3:25:55 PM plans ordered 8/11/22 KT - Plans ordered 2118929 </p> 11/17/2022 1:56:12 PM Plans attached Plans attached</p> 11/21/2022 11:43:07 AM A Service leak in the road near kerb Traffic management required pass to 2 x man crew 11/21/2022 12:36:21 PM Service leak in road near kerb Plans and traffic management required pass to 2 x man crew 11/21/2022 4:34:30 PM reassigned to 2man reassigned to 2man </p> 12/21/2022 10:04:12 AM CAR R910517 CAR R910517 </p>	
	UHCC16739R	UHCC_PW011325	Reinstatement: Leaky Connection 24 Kashmir Avenue	<div>21/12/22 CAR R910517 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: </div><div>Requirements: </div></p>	Potable	4	CLOSE	12/19/2022 2:23:57 PM	3/10/2023 1:02:49 PM		
23 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC12411	No Asset Selected	Leaky Connection 23 Kashmir Avenue	Hello Significant water leaks throwing at a steady rate rising from the road surface and appearing to lift the surface of the road running at the rate of a medium to fast running tap. See photos attached 7(2)(a)	Potable	1	CLOSE. CAN	11/25/2021 12:27:35 PM	11/25/2021 12:37:34 PM	11/25/2021 12:27:47 PM	Note from Council Hello Significant water leaks throwing at a steady rate rising from the road surface and appearing to lift the surface of the road running at the rate of a medium to fast running tap. See photos attached 7(2)(a)
										11/25/2021 12:37:29 PM	This is cancelled This is a duplicate of UHCC12337</p> 11/29/2021 1:32:41 PM Job cancelled Disregard previous note this job was cancelled in error, repair will be carried out under job ref 12415</p>

UHCC12415	UHCC_PW011327	Leaky Connection 23 Kashmir Avenue	<p><div>10/12/21 CAR R826005 </div><div>Water leak</div><div>Plans ordered 29/11 - 1942944 </div><div></div><div>9/12/21 kt - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div> </div><!-- RICH TEXT --></p>	Potable	3	CLOSE	11/25/2021 4:46:52 PM	12/9/2021 2:32:16 PM	11/25/2021 4:47:13 PM	Note from Council	Water leak
									11/29/2021 1:26:27 PM	Update - Called through to After hrs	Update - Called through to After hrs 27/11 crew confirmed location of leak is across the road outside n# 23, changed address details to n# 23, repair will be completed on this job due original job ref 12411 was cancelled in error. This is a separate leak from n# 35<!-- RICH TEXT -->
									11/29/2021 1:29:22 PM	Update - duplicate job ref 12417	Update - duplicate job ref 12417 notes - A new RFS 1193051 has been added with the following details: Call In: 25-Nov-2021 17:51 Customer: 7(2)(a) CustomerAddress: 23 Kashmir Avenue, Clouston Park, Upper Hutt Home 7(2)(a) Cell Phone: 021 979 444 Work Phone: (Unknown) Fax: (Unknown) Email: (Unknown) We have recorded the following information: Call In: 17:52 Issue Location: 23 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leaking from the break outside her home and there is another break in the road outside 25 Kashmir Ave. Caller said the leak is much bigger outside her place.<!-- RICH TEXT -->
									11/29/2021 1:47:13 PM	Site inspection.	Service leak in road, 2man crew with traffic management required, fairly urgent.
									11/29/2021 1:47:14 PM	Status Change to PAUSE	Reassigning job to 2man crew with traffic management.
									11/29/2021 1:48:58 PM	Plans ordered	Plans ordered 29/11 - 1942944 <!-- RICH TEXT -->
									11/30/2021 1:10:23 PM	Note from Council	Water leak - 30/11/21 - Water leak is in the road and getting worse. 7(2)(a)
									12/1/2021 4:16:47 PM	Note from Council	Water leak - 30/11/21 - Water leak is in the road and getting worse. 7(2)(a) 1/12/21 - Photo's from 7(2)(a) - Roading Engineer UHCC Photo's, please upgrade and repair as soon as possible. 20 Kashmir Ave - water damage lifting seal
									12/9/2021 8:09:57 AM	phoned Plans attached.	<div> </div><div>9/12/21 kt - Plans attached, Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><!-- RICH TEXT -->
12/9/2021 8:11:47 AM	crew attending today advised by	crew attending today advised by <!-- RICH TEXT -->									
UHCC12415R	No Asset Selected	Reinstatement: Leaky Connection 23 Kashmir Avenue	<p><div>10/12/21 CAR R826005 </div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 1m2</div><div>Requirements: Ash</div><!-- RICH TEXT --></p>	Potable	4	CLOSE	12/9/2021 2:37:23 PM	12/21/2021 12:50:10 PM			
UHCC12417	No Asset Selected	Leaking Pipes 23 KASHMIR AVENUE	<p>A new RFS 1193051 has been added with the following details:</p> <p>Call In: 25-Nov-2021 17:51</p> <p>Customer: 7(2)(a)</p> <p>CustomerAddress: 23 Kashmir Avenue, Clouston Park, Upper Hutt Home Phone: 7(2)(a)</p> <p>Work Phone: (Unknown)</p> <p>Fax: (Unknown)</p> <p>Email: (Unknown)</p> <p>We have recorded the following information:</p> <p>Call In: 17:52</p> <p>Issue Location: 23 Kashmir Avenue,</p>	Potable	3	CLOSE. CAN	11/26/2021 8:08:40 AM	11/29/2021 1:29:46 PM	11/26/2021 8:08:55 AM	Note from Council	<p>A new RFS 1193051 has been added with the following details:</p> <p>Call In: 25-Nov-2021 17:51</p> <p>Customer: 7(2)(a)</p> <p>CustomerAddress: 23 Kashmir Avenue, Clouston Park, Upper Hutt Home 7(2)(a)</p> <p>Work Phone: (Unknown)</p> <p>Fax: (Unknown)</p> <p>Email: (Unknown)</p> <p>We have recorded the following information:</p> <p>Call In: 17:52</p> <p>Issue Location: 23 Kashmir Avenue, Clouston Park, Upper Hutt</p> <p>Problem: Water Leak</p>

				Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leaking from the break outside her home and there is another break in the road outside 25 Kashmir Ave. Caller said the leak is much bigger outside her place.								Equipment Leaking: Water Mains Details: Water leaking from the break outside her home and there is another break in the road outside 25 Kashmir Ave. Caller said the leak is much bigger outside her place.
										11/26/2021 8:21:14 AM	Note from Council	A new RFS 1193051 has been added with the following details: Call In: 25-Nov-2021 17:51 Customer: 7(2)(a) CustomerAddress: 23 Kashmir Avenue, Clouston Park, Upper Hutt Home Phone 7(2)(a) Phone: (Unknown) Fax: (Unknown) Email: (Unknown) We have recorded the following information: Call In: 17:52 Issue Location: 23 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leaking from the break outside her home and there is another break in the road outside 25 Kashmir Ave. Caller said the leak is much bigger outside her place. 26/11/2021 Caller rung this morning to give more details: A giant wet patch and puddle 2 metres in length, two large blisters. water bubbling up from the road causing splashing on vehicles.
										11/29/2021 1:29:44 PM	Job cancelled	Job cancelled related to job ref 12415<!-- RICH TEXT -->
	UHCC13335	No Asset Selected	Water Restriction Breach 23 Kashmir Avenue	Sprinkler is being used whilst in level 2 restrictions - no sprinklers permitted	Potable	3	CLOSE	2/1/2022 1:14:02 PM	5/25/2022 1:30:02 PM	2/1/2022 1:14:13 PM	Note from Council	Sprinkler is being used whilst in level 2 restrictions - no sprinklers permitted
										2/8/2022 12:23:48 PM	JE - Emailed ██████████	JE - Emailed ██████████ <!-- RICH TEXT -->
	UHCC26711	UHCC_PWP014349	Leaking Pipes 23 Kashmir Avenue	<div>customer advised water is leaking up from the road.</div><div> </div><div> </div><!-- RICH TEXT -->	Potable	3	INPRG.H D.REVIE W	4/29/2024 8:59:58 AM		4/29/2024 9:00:17 AM	Note from Council	customer advised water is leaking up from the road.
										4/30/2024 3:24:49 PM	Assigned to RWL	
										5/8/2024 9:58:55 AM	Service leak in centre of road	
22 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC8326	No Asset Selected	Leaking Pipes 22 Kashmir Avenue	LEAK DETECTION SURVEY: Service Leak	Potable	4	CLOSE	2/2/2021 10:37:47 AM	2/17/2021 8:47:34 AM	2/2/2021 10:38:18 AM	Note from Council	LEAK DETECTION SURVEY: Service Leak
										2/2/2021 2:00:59 PM	Leak detection survey, this will be attended by ██████████	
										3/12/2021 8:44:16 AM	Work completed by ██████████	
	UHCC9279	No Asset Selected	Leaking Pipes 22 Kashmir Avenue	Leak detection survey: Service Leak marked on road	Potable	3	CLOSE	3/29/2021 2:34:24 PM	4/9/2021 9:40:02 AM	3/29/2021 2:36:06 PM	Note from Council	Leak detection survey: Service Leak marked on road
										3/30/2021 8:41:08 AM	Proactive leak detection - ██████████ will attend	Proactive leak detection survey - will be attended by SAP<!-- RICH TEXT -->
										4/27/2021 9:39:59 AM	Repair completed by ██████████	
16 Kashmir Ave, Clouston Park, Upper Hutt, 5018	UHCC16180	UHCC_PWP002826	Leaky Connection 16 Kashmir Ave	<div>20/09/2022 CAR R888444 </div><div>RFS 1287122 - Call In: 0606 Issue Location: 16 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leak on the footpath - Like a fire hose on full.</div><!-- RICH TEXT -->	Potable	1	CLOSE	9/19/2022 9:08:12 AM	9/20/2022 7:40:16 AM	9/19/2022 9:08:23 AM	Note from Council	RFS 1287122 - Call In: 0606 Issue Location: 16 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leak on the footpath - Like a fire hose on full.
										9/19/2022 9:10:00 AM	Note from Council	RFS 1287122 - Call In: 0606 Issue Location: 16 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water leak on the footpath - Like a fire hose on

14 Kashmir Avenue, Upper Hutt, 5018, Wellington	UHCC24477	UHCC_PWP002826	- Leaky Connection 14 kashmir avenue	<p><div>CAR R1004884 </div><div>Issue Location: 14-16 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water puddling quite badly near the toby</div><div>
</div><div>11/1 LS - Plans ordered 2330747 </div><div>15/01 DC - Plans attached </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div>
</div><!-- RICH TEXT --></p>	Potable	3	PRECLAIM	1/10/2024 12:10:51 PM	2/22/2024 4:31:35 PM	1/10/2024 12:10:59 PM	Note from Council	Issue Location: 14 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Water Leak Equipment Leaking: Water Mains Details: Water puddling quite badly near the toby
										1/10/2024 12:27:02 PM	Called customer - no answer unable to leave vm	Called customer - no answer unable to leave vm<!-- RICH TEXT -->
										1/10/2024 12:27:19 PM	Downgrade to P3	Downgrade to P3 - insufficient information to be urgent <!-- RICH TEXT -->
										1/11/2024 9:16:44 AM	Plans ordered 2330747	Plans ordered 2330747 <!-- RICH TEXT -->
										1/29/2024 11:21:51 AM	Investigation cmp	
										2/13/2024 2:45:14 PM	Emailed Supervisor to organise repair	
										2/14/2024 10:43:14 AM	RELATED TO CAR R888444	RELATED TO CAR R888444 <!-- RICH TEXT -->
										2/20/2024 12:44:07 PM	Leak on 50AC Ridermain on berm,traffic & crew.first job tomorrow plse	
										2/22/2024 10:17:10 AM	Water off 7(2)	<p><p class="MsoPlainText">Water will be shut off at 14-16 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018 . Reference UHCC24477 for 2 hours from 10.20am to 12.20pm.</p></p> <p><p class="MsoPlainText"></p></p> <p><p class="MsoPlainText">Reason for shutdown:</p></p> <p><p class="MsoPlainText" style="margin-left:54.0pt;text-indent:-36.0pt;mso-list:l0 level1 lfo1"><!--[if !supportLists]--><!--[endif]-->Service Repair (Service Connection/Toby/meter)</p></p> <p><p class="MsoPlainText"></p></p> <p><p class="MsoPlainText">This will affect the following:</p></p> <p><p class="MsoPlainText" style="margin-left:54.0pt;text-indent:-36.0pt;mso-list:l0 level1 lfo1"><!--[if !supportLists]--><!--[endif]-->1-18 Kashmir Ave </p></p> <p><p class="MsoPlainText"></p></p> <p><p class="MsoPlainText" style="margin-left:54.0pt;text-indent:-36.0pt;mso-list:l0 level1 lfo1"><!--[if !supportLists]--><span style="font-family:Symbol;mso-fareast-font-family:Symbol;mso-bidi-font-</p>

												<p>family:Symbol"><!--[endif]-->Affecting approximately 20 residential properties</p></p></p> <p><p class="MsoPlainText" style="margin-left:54.0pt;text-indent:-36.0pt;mso-list:l0 level1 lfo1"><!--[if !supportLists]--><!--[endif]-->Affecting approximately 0 commercial properties</p></p></p> <p><p class="MsoNormal"><o:p> </o:p></p></p> <p><p class="MsoNormal">This has been logged on our website https://www.wellingtonwater.co.nz/network-status/ and text and email notifications sent to all registered users.</p></p><!-- RICH TEXT --></p>
										2/23/2024 10:18:08 AM	CAR R1004884	CAR R1004884<!-- RICH TEXT -->
14 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC8327	No Asset Selected	Leaking Pipes 14 Kashmir Avenue	LEAK DETECTION SURVEY: Service Leak	Potable	4	CLOSE	2/2/2021 10:44:53 AM	2/16/2021 9:25:39 AM	2/2/2021 10:45:35 AM	Note from Council	LEAK DETECTION SURVEY: Service Leak
										2/2/2021 1:58:29 PM	Leak detection survey, this will be attended by █████	
										3/12/2021 8:48:11 AM	Work Completed by █████	
	UHCC9281	No Asset Selected	Leaking Pipes 14 Kashmir Avenue	Leak detection survey: Service Leak marked on berm edge of footpath	Potable	3	CLOSE	3/29/2021 2:48:53 PM	4/8/2021 9:39:20 AM	3/29/2021 2:49:26 PM	Note from Council	Leak detection survey: Service Leak marked on berm edge of footpath
										3/30/2021 8:43:18 AM	Leak detection survey - █████ will attend	Leak detection survey - █████ will attend.<!-- RICH TEXT -->
										4/27/2021 9:38:15 AM	Job Completed by █████	
	UHCC23681	No Asset Selected	Leaky Connection 14 kashmir avenue	Caller informed of a water toby leak outside his property, it has been leaking for the past one year but now it is getting worse.<!-- RICH TEXT -->	Potable	2	CLOSE. DUP	11/27/2023 3:26:42 PM	11/27/2023 3:54:57 PM	11/27/2023 3:26:51 PM	Note from Council	Call In: 1912 Issue Location: 14 Kashmir Avenue, Clouston Park, Upper Hutt Problem: Toby Issue Equipment Leaking: Toby Details: Caller informed of a water toby leak outside his property, it has been leaking for the past one year but now it is getting worse.
										11/27/2023 3:54:57 PM	Duplicate of WO-267611	Duplicate of WO-267611<!-- RICH TEXT -->
	UHCC24477R	UHCC_PWP002826	Reinstatement: - Leaky Connection 14 kashmir avenue	<div>CAR R1004884 </div><div>Reinstatement Type Required: Topsoil (Grassed Area)</div><div>Area/Size: </div><div>Requirements:</div><div> </div><div>Still leaking under UHCC25633</div><div></div><!-- RICH TEXT -->	Potable	4	JOBCOMP	2/22/2024 4:37:03 PM	5/28/2024 10:23:43 AM	2/29/2024 9:51:57 AM	Topsoil	Still leaking. Contacted the hub to them know.
										2/29/2024 9:59:19 AM	Contacted hub to let know	
UHCC25633	UHCC_PWP002826	Rider Main leak: 14 Kashmir Avenue	<div>Related to CAR R1004884 </div><div>Caller has advised Water Water reinstatement team was at this location this morning and found a leak has	Potable	3	JOBCOMP	2/29/2024 10:00:19 AM	5/7/2024 3:53:25 PM	2/29/2024 10:00:32 AM	Note from Council	Caller has advised Water Water reinstatement team was at this location this morning and found a leak has reappeared.	
									3/6/2024 4:10:53 PM	Plans ordered 2361492	Plans ordered 2361492 <!-- RICH TEXT -->	

												<p><!--[endif]-->Affecting approximately 8 residential properties<o:p></o:p></p></p> <p><p class="MsoPlainText" style="margin-left:54.0pt;text-indent:-36.0pt;mso-list:l0 level1 lfo1"><!--[if !supportLists]--><!--[endif]-->Affecting approximately 0 commercial properties<o:p></o:p></p></p> <p><p class="MsoNormal"><o:p> </o:p></p></p> <p><p class="MsoNormal">This has been logged on our website https://www.wellingtonwater.co.nz/network-status/ and text and email notifications sent to all registered users.<o:p></o:p></p><!-- RICH TEXT --></p>
									5/8/2024 11:13:25 AM	Related to CAR R1004884		
	UHCC25633R	UHCC_PWP002826	Reinstatement: Rider Main leak: 14 Kashmir Avenue	<div>Related to CAR R1004884 </div><div> </div><div>Reinstatement Type Required: Topsoil (Grassed Area)</div><div>Area/Size: 2m2</div><div>Requirements: 50 ac repair</div><!-- RICH TEXT -->	Potable	4	CLOSE. DUP	5/8/2024 8:11:53 AM	5/8/2024 11:17:25 AM	5/8/2024 11:16:26 AM	Related to CAR R1004884	Duplicate of 436877 - Cancelling RI <!-- RICH TEXT -->
	WO-267611	UHCC_PW012690	RWL: Leaking toby @ 9 LPM: 14 Kashmir Avenue, Clouston Park (1MAN)	<div>CAR R999880 01/02/24 </div><div> identified and marked a leaking toby in the berm on 7/12/2022. 3LPM Not visible.</div><div> </div><div>Es 19/12/2022 Plans Ordered 2140194</div><div> </div><div>ES 20/12/2022 plans attached </div><div>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div></div>	Potable	4	CLOSE	12/19/2022 1:26:29 PM	1/31/2024 11:42:43 AM	12/19/2022 1:31:00 PM	Plans ordered	Es 19/12/2022 Plans Ordered 2140194<!-- RICH TEXT -->
									12/20/2022 2:43:28 PM	Plans attached	<div>ES 20/12/2022 plans attached </div><div> Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div>Caution: There is Core Network in the area provided on the plan(s).<!-- RICH TEXT -->	
									12/22/2022 7:50:13 AM	Assigned to 1 Man	Assigned to 1 Man<!-- RICH TEXT -->	
									2/14/2023 9:58:06 AM	14/02/2023 HJR - RWL : leak detection have reidentified this leaking Toby on the 24/01/2023 - the pl	14/02/2023 HJR - RWL : leak detection have reidentified this leaking Toby on the 24/01/2023 - the plans have been attached already i have just updated the office group. <!-- RICH TEXT -->	
									2/14/2023 9:59:07 AM	14/02/2023 Notes - This is now visible and 3 LPM		
									10/12/2023 10:03:16 AM	12/10/2023 HJR - have re-identified this leak on the 05/10/2023 @ 9 LPM located on the berm and	12/10/2023 HJR - have re-identified this leak on the 05/10/2023 @ 9 LPM located on the berm and it is visible <!-- RICH TEXT -->	
									10/12/2023 10:05:39 AM	12/10/2023 HJR - I have re ordered the plans 2290165	<div>12/10/2023 HJR - I have re ordered the plans </div><h1 class="truncate-string" style="text-wrap: nowrap; box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, "Segoe UI", Roboto, "Fira Sans", "Droid Sans", "Helvetica Neue", Arial, sans-serif; min-height: 1rem; overflow: hidden; text-	

				<p>v>14/02/2023 HJR - RWL : leak detection have reidentified this leaking Toby on the 24/01/2023 - the plans have been attached already i have just updated the office group. This is now visible and 3 LPM</p> <p></div><div> </div><div>12/10/2023 HJR - [REDACTED] have re-identified this leak on the 05/10/2023 @ 9 LPM located on the berm and it is visible</p> <p></div><div> </div><div>12/10/2023 HJR - I have re ordered the plans</p> <p></div><h1 class="truncate-string" style="box-sizing: inherit; background-repeat: no-repeat; padding: 0px; margin: 0px 0px 0.5rem; color: rgba(0, 0, 0, 0.87); line-height: 1.5; font-size: 1rem; font-family: -apple-system, BlinkMacSystemFont, system-ui, &quot;Segoe UI&quot;, &quot;Roboto, &quot;Fira Sans&quot;, &quot;Droid Sans&quot;, &quot;Helvetica Neue&quot;, Arial, sans-serif; min-height: 1rem; text-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; background-color: rgb(255, 255, 255);">2290165</h1><div>24/10/2023 HJR - I have attached the plans</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div></p> <p><div>Caution: There is Core Network in the area provided on the plan(s).</div><div> </div><div>24/10/2023 HJR - I have assigned a 1 man crew</p> <p></div><div> </div><div>30/01/2024 HJR - I have re ordered the plans</p> <p></div><div>2340648</div><div>31/01/2024 HJR - I have attached the plans</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div></p> <p><div>Caution: There is Core Network in the area provided on the</p>									<p>overflow: ellipsis; background-color: rgb(255, 255, 255);">2290165</h1><!-- RICH TEXT --></p> <p><div>24/10/2023 HJR - I have attached the plans</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><div>24/10/2023 HJR - I have assigned a 1 man crew</p> <p></div><!-- RICH TEXT --></p> <p><div>30/01/2024 HJR - I have re ordered the plans</p> <p></div>2340648<!-- RICH TEXT --></p> <p><div>31/01/2024 HJR - I have attached the plans</p> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s).</div><!-- RICH TEXT --></p> <p>2xleaks o/s #14,repair Toby but another leak on ridermain pass 2man crew with traffic</p> <p>Job delay</p> <p>CAR R999880 01/02/24</p>
--	--	--	--	--	--	--	--	--	--	--	--	--	---

				plan(s). </div><div> </div><!-- RICH TEXT -->									
12 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC8335	No Asset Selected	Leaking Pipes 12 Kashmir Avenue	LEAK DETECTION SURVEY: Service Leak	Potable	4	CLOSE	2/2/2021 12:28:52 PM	2/17/2021 9:27:09 AM	2/2/2021 12:29:19 PM	Note from Council	LEAK DETECTION SURVEY: Service Leak	
										2/2/2021 1:55:48 PM	Leak detection survey, this will be attended by [REDACTED]		
										3/12/2021 9:26:23 AM	Work completed by [REDACTED]		
	UHCC9282	No Asset Selected	Leaking Pipes 12 Kashmir Avenue	Leak detection survey: Service Leak marked on road	Potable	3	CLOSE	3/29/2021 2:54:23 PM	4/12/2021 9:37:20 AM	3/29/2021 2:55:20 PM	Note from Council	Leak detection survey: Service Leak marked on road	
										3/30/2021 8:46:22 AM	Leak detection [REDACTED] will attend	<div>Leak detection survey, will be attended by [REDACTED]</div><!-- RICH TEXT -->	
										4/27/2021 9:37:06 AM	Job Completed by [REDACTED]		
8 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC8307	No Asset Selected	Leaking Pipes 8 Kashmir Avenue	LEAK DETECTION SURVEY: Private leak with a very high leak noise.	Potable	4	CLOSE	2/2/2021 9:45:23 AM	2/16/2021 1:47:40 PM	2/2/2021 9:47:02 AM	Note from Council	LEAK DETECTION SURVEY: Private leak with a very high leak noise.	
										2/16/2021 1:47:39 PM	Owner reports this has been investigated before	Minor leak noise - nothing found<!-- RICH TEXT -->	
5 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC6557	No Asset Selected	Leaky Connection 5 Kashmir Avenue	<div>CAR R711469 29/09/20 </div><div>Leak detection survey: Leaking Toby marked.</div><div> </div><div>plans attached </div><table border="0" cellpadding="0" cellspacing="5" class="MsoNormalTable"> <tbody><tr> <td style="padding:.75pt .75pt .75pt .75pt"> <p>Caution: There is High Capacity and/or Fibre Network in the area provided on the plan(s). Caution: There is Core Network in the area provided on the plan(s).<o:p></o:p></p> </td> </tr> </tbody></table><!-- RICH TEXT -->	Potable	3	CLOSE	9/23/2020 9:37:57 AM	9/29/2020 11:11:58 AM	9/23/2020 10:06:52 AM	Plans ordered		
													9/28/2020 10:02:59 AM
	UHCC6557R	No Asset Selected	Reinstatement: Leaky Connection 5 Kashmir Avenue	<div>CAR R711469 29/09/20 </div><div>Reinstatement Type Required: Asphalt (Footpath)</div><div>Area/Size: </div><div>Requirements: </div><!-- RICH TEXT -->	Potable	4	CLOSE	9/29/2020 11:15:09 AM	10/13/2020 9:32:34 AM				
3 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC23397	UHCC_PWP002826	(PHOTOS ONLY) Leaky Connection 3 KASHMIR AVENUE	<div><b style="background-color:rgb(255, 255, 0);">CAR R999384 31/01/24</div><div>Caller advised water is bubbling out of the toby in a large volume.</div><!-- RICH TEXT -->	Potable	2	COMP.W AW	11/14/2023 4:41:30 PM	1/30/2024 2:21:47 PM	11/14/2023 4:41:38 PM	Note from Council	Caller advised water is bubbling out of the toby in a large volume.	
										11/15/2023 9:18:41 AM	Called customer to acknowledge job	Called customer to acknowledge job spoke to customer and advised the leak is actually happening at number 3 so I updated the address. Also advised the water leak is already fixed. Closing job.<!-- RICH TEXT -->	
										11/15/2023 9:20:39 AM	Assign to 7(2) as AH	Assign to 7(2)(a) as AH<!-- RICH TEXT -->	
										1/26/2024 10:52:10 AM	Reassigned to 7(2)(a) so job can be filled out with info/photos for CAR		
										1/29/2024 7:25:31 PM	Reassigning job to [REDACTED] he has photos		
										1/30/2024 10:10:28 AM	Job attended by 7(2) AH on 14/11/23	Job attended by 7(2) AH on 14/11/23 - need photos for Car process<!-- RICH TEXT -->	
								1/31/2024 11:48:49 AM	CAR R999384 31/01/24				

UHCC23397R	UHCC_PWP002826	Reinstatement: Leaky Connection 3 KASHMIR AVENUE	<p><div style="background-color: rgb(255, 255, 0);">CAR R999384 31/01/24</div><div>Reinstatement Type Required: Asphalt (Road)</div><div>Area/Size: 2m2</div><div>Requirements: Concrete reinstatement also requires for footpath.Ashphalt on road.</div><!-- RICH TEXT --></p>	Potable	4	INPRG.R ESCHED	1/10/2024 4:32:01 PM		1/16/2024 4:07:05 PM	Email from customer	<p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","Hi there </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","Back in November we had a big water leak, it was the middle of the night so they said they would temporally fix the driveway from the damage it caused and come back and fix it properly another day. </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","Now, I have just had to replace 2 tyres on my car due to the drop in the driveway and the massive pot hole its formed. </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","Cars go past and it must hurt their car to when they hit the pot hole. </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","I'm just wondering when you are coming to fix it as I really don't want to have to replace anymore tyres. </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","I wasn't given a reference number but I have added my address above. </p></p> <p><p class="MsoNormal"><span style="mso-fareast-font-family:"Times New Roman","Cheers </p><!-- RICH TEXT --></p>
									1/16/2024 4:07:38 PM	EMail to customer 16/01	<p><p class="MsoNormal">Kia ora </p></p> <p><p class="MsoNormal">Thank you for your email. This reinstatement is currently logged under reference UHCC23397R.</p></p> <p><p class="MsoNormal">These types of jobs can take months for our team to act on. This is due to the preparations that are required for these jobs. If it is reported that the temporary seal is leaking, we will require a new job to be logged for our service delivery crew to investigate. We also recommend logging a new job if the temporary seal is reportedly damaged or a safety concern.</p></p> <p><p class="MsoNormal">Photos showing the temporary seal issue or leak will help us appropriately prioritise the job when we receive it.</p><!-- RICH TEXT --></p>
									5/3/2024 8:50:26 AM	Concrete needs to be Reinstated first.	
UHCC24640	No Asset Selected	Poor Quality Work 3 Kashmir avenue	<p>caller advised back in November there was a massive water leak at her property - this has been fixed and a temp seal on her drive way was done - this is now breaking and causing problems with her tyres in needing to replace etc . there is</p>	Potable	2	CLOSE. DUP	1/17/2024 1:55:39 PM	1/17/2024 2:12:00 PM	1/17/2024 1:55:48 PM	Note from Council	<p>caller advised back in November there was a massive water leak at her property - this has been fixed and a temp seal on her drive way was done - this is now breaking and causing problems with her tyres in needing to replace etc . there is also a pot hole outside her drive that is forming and is affecting other car users also.</p>

				also a pot hole outside her drive that is forming and is affecting other car users also. she has a job number from wellington water #uhcc 23397R							she has a job number from wellington water #uhcc 23397R	
									1/17/2024 2:12:00 PM	Related to UHCC23397 reinstatement under UHCC23397R	Related to UHCC23397 reinstatement under UHCC23397R<!-- RICH TEXT -->	
									1/17/2024 2:12:22 PM	Email sent to land access and reinstatement TL	Email sent to land access and reinstatement TL<!-- RICH TEXT -->	
1 Kashmir Avenue, Clouston Park, Upper Hutt, Wellington, 5018	UHCC13988	UHCC_PWP020559	Leaking Pipes 1 Kashmir Avenue, Clouston Park (TRAFFIC)	<p><div>CAR R855927 03/05/22 </div><div>Water leak on the corner, about 3 feet from the pole.</div><div> </div><div>LW Plans ordered - 2004158. </div><div> </div><div>11/04-AI- Plans attached </div><div>Caution: There is a High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s) </div><div>Caution: NORTHPOWER IS WELLINGTON ELECTRICITY'S PREFERRED LOCATOR FOR STRATEGIC ASSETS</div><div>Wellington Electricity has 33kV and/or Strategic Pilot cables (Auxiliary) in your selected area of work.</div><div>If your works are in the area of these cables, a mark out can be completed for FREE through B4UDig. </div><div>A markout must be completed prior to excavation. If excavation is within 1.5m of the marked cables a Standover will be required. This can also be requested through B4UDig website. </div><div>Please contact myself or call 0800 248 148 for further instructions to book a Standover.</div><div> </div><div> </div><!-- RICH TEXT --></p>	Potable	3	CLOSE	3/22/2022 11:28:44 AM	5/3/2022 11:04:43 AM	3/22/2022 11:28:59 AM	Note from Council	Water leak on the corner, about 3 feet from the pole.
										3/29/2022 10:07:13 AM	Assigned	Assigned 7(2)(a) RICH TEXT -->
										4/5/2022 9:20:01 AM	A	Service leak before Toby in the concrete footpath and 1.5 mtrs from 2 x power pole Pole no 378375 & 378300 close approach form required plans required may be traffic management required pass to 2 x man crew water going onto property
										4/5/2022 12:03:57 PM	Status Change to PAUSE	.
										4/5/2022 1:07:11 PM	Plans ordered	LW Plans ordered - 2004158. Assign to 2man crew when received as per 7(2)(a) !-- RICH TEXT -->
										4/7/2022 9:22:31 AM	Status Change to PAUSE	.
										4/7/2022 1:48:37 PM	A	Close approach form has been given
										4/7/2022 1:48:56 PM	Status Change to PAUSE	.
										4/11/2022 9:08:25 AM	Plans attached	<div> Plans attached </div><div>Caution: There is a High Capacity and/or Fibre Network in the area provided on the plan(s).</div><div>Caution: There is Core Network in the area provided on the plan(s) </div><div>Caution: NORTHPOWER IS WELLINGTON ELECTRICITY'S PREFERRED LOCATOR FOR STRATEGIC ASSETS</div><div>Wellington Electricity has 33kV and/or Strategic Pilot cables (Auxiliary) in your selected area of work.</div><div>If your works are in the area of these cables, a mark out can be completed for FREE through B4UDig. </div><div>A markout must be completed prior to excavation. If excavation is within 1.5m of the marked cables a Standover will be required. This can also be requested through B4UDig website. </div><div>Please contact myself or call 0800 248 148 for further instructions to book a Standover.</div><div> </div><div> </div><!-- RICH TEXT -->
										4/11/2022 9:24:45 AM	Assigned to 2 man folder as per [REDACTED]	Assigned to 2 man folder as per [REDACTED] <!-- RICH TEXT -->
										5/2/2022 1:15:09 PM	Call from customer	Call from customer who advise the leak is getting worse and flooding under his house, potentially causing damaged <!-- RICH TEXT -->
5/2/2022 1:17:50 PM	tried clling 7(2)	tried calling 7(2) there was no answer. added to escalation list <!-- RICH TEXT -->										
	UHCC13988R	UHCC_PWP020559	Reinstatement: Leaking Pipes 1 Kashmir Avenue, Clouston Park (TRAFFIC)	<p><div>CAR R855927 03/05/22 </div><div>Reinstatement Type Required: Concrete Exposed (Footpath)</div><div>Area/Size: </div><div>Requirements: </div><!-- RICH TEXT --></p>	Potable	4	CLOSE	5/3/2022 11:07:22 AM	5/26/2022 2:48:17 PM			



Delivery Plan -Water Reform Water Supply Renewals Programme – Upper Hutt

Council: Upper Hutt City Council

Suburb

name(s): Upper Hutt

Project code(s): OPC101040

Start date: 01/09/2020

End date: 05/07/2021

Consultant/Contractor organisation: GHD / GP Friel, E Carson & Sons, Brian Perry Civil

Document control

Revision history

Date	Version number	Description of change
28/01/2021	1.0	First issue – DRAFT FOR COMMENT
22/04/2021	2.0	Final issue – For Approval

Delivery Plan Approval

Activity	Title	Name	Electronic signature	Date
Prepared by	Senior Water Engineer	7(2)(a)	7(2)(a)	24/02/21
Checked by:	Project Manager / Team Lead	7(2)(a)	7(2)(a)	22/04/21
Review by:	Project Manager / Team Lead	7(2)(a)	7(2)(a)	22/04/21
Approved for issue:	GHD Project Director	7(2)(a)	7(2)(a)	22/04/21
Approved by	Wellington Water Programme Lead	7(2)(a)		
Approved by	Design Manager	7(2)(a)		
Approved by	Customer Planning Engineer	7(2)(a)		
Approved by	Principal Engineer, NET	7(2)(a)		

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- Appendix E: Risk Register
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1 Purpose of Delivery Plan

This Delivery Plan documents the development and delivery of the proposed scope of works for the Upper Hutt Water Supply Renewals project, part of the Water Reform Renewals programme.

The key purpose of the delivery plan is to detail the proposed renewal works for Upper Hutt. The Delivery Plan is a formal document that seeks approval for the proposed works.

This Delivery Plan effectively sets the project scope baseline and confirms the bounds within which the project team can move without requiring decisions to be escalated. The Delivery plan also documents risks to the project and how these will be managed.

Approval of this plan enables the project team to progress to Gateway 4 of the Wellington Water Delivery Process, once formal schedules for the pricing of the work have been developed. The Approval of the Delivery Plan does not constitute a contract to commence construction of works.

2 Background

This project is part of the Renewals programme which forms part of the overall Wellington Water Reform programme. The Renewals programme involves delivering packages of renewals work for water and wastewater focused on known issues within each council.

The Government objectives of the Water Reform programme are:

1. Stimulating investment, to assist economic recovery through job creation, and maintain investment in water infrastructure renewals and maintenance; and
2. Reforming current water service delivery, into larger scale providers, to realise significant economic, public health, environmental, and other benefits over the medium to long term.

Wellington Water objectives for the Renewals programme are:

1. Trial a faster, more efficient delivery model that we will be able to roll into standard processes from 20/21
2. Enable and encourage increased usage of trenchless technologies
3. Target areas identified in each council with known widespread issues.

3 Project overview and benefits

3.1 Project Scope

The project scope is to identify and renew Council water supply assets in Upper Hutt that are in poor condition and exceed their useful asset life. Priority is to be given to assets located in areas of high leakage and repair frequency.

The Activity Brief for this project is included as Appendix A. This brief covers all works in Upper Hutt with a cost budget of \$1.0 M.

As part of the project brief, all house connections are to be replaced.



3.2 Renewals Programme Benefits

The renewals programme aims to increase efficiencies and increase the consideration/use of trenchless technology. To identify the benefits at a programme level and enable reporting to client councils and central government this project will report on:

- Use of trenchless technologies,
- The length of pipe renewed,
- Programme,
- Hours worked,
- Innovations used throughout the project.

3.3 Wellington Water service goals

In addition to contributing to meeting the Government & Wellington Water Water Reform programme objectives, this project contributes to the Wellington Water service goals:

Primary	 <p>3.4 We provide reliable services to customers</p>	Minimise water outages to customers
Secondary	 <p>2.1 We manage the use of resources in a sustainable way</p>	Minimise water leaks

3.4 Project Purpose and Benefits

This package of water supply renewal works will allow for Upper Hutt's aging/poor assets to be renewed. One of the expected outcomes of this work is to mitigate the issue of burst waters mains in the selected streets and reduce the annual volume of leakages.

For this project we are trialling a faster, more efficient delivery model, with increased use of trenchless methodologies. By renewing or replacing assets as a package of work, the project risks are reduced when compared with a large number of smaller projects.

This programme is part of the Government's package of work stimulating investment, to assist economic recovery through job creation and to maintain investment in water infrastructure.

3.5 Project criteria and constraints

Project criteria and constraints are listed below:

- Renewal of pipelines in areas with a high repair frequency (indicating end of life)
- Renewal of pipelines with known leakage issues
- Consider potential correlation between water main age, material and number of leaks
- Renewal to exclude growth areas, main roads / schools / shopping areas, areas of contaminated land, and trunk mains.
- House connections (up to the property boundary) to be renewed
- Trenchless renewal techniques are preferred (Target of 60% of renewals to be by trenchless methods)
- Construction works to be completed as per the proposed programme - Project completion by 30th of June

3.6 Reference Documents

The list below are relevant reference documents for the project. These documents are stored on the project Woogole site.

- Water Supply Pipe Risk Assessment procedure
- UHCC Water Pipes Risk Assessment Database
- UHCC Main and Ridermain and Service Pipe Faults – 1 July 2009 to 7 June 2019 Master List
- Critical mains shapefile (on GHD drive)
- InfoAsset data (WWL DPS Team)
- Network fault data (Workforce) (WWL DPS Team)
- Network fault data (City Care's Chem system) (WWL DPS Team)
- Existing Capital Programme (Project Server)
- Upper Hutt Three Waters Catchment Growth Assessment

4 Optioneering and Prioritisation Process

The following optioneering and prioritisation process was undertaken to confirm the proposed project scope.

4.1 Longlist Selection Criteria

Pipes were selected via a longlist and shortlist process. Criteria for each stage were developed as a consultant-contractor team.

Longlist criteria were initially developed to rank streets in order of the largest density of recent repairs, measured in repairs per 100m of road. This method was used to confirm which assets are considered at the end of their useful life based on pipe failure information. This exercise was based on pipe fault repair information provided by Wellington Water dating back to 2009. In addition, streets were excluded from the longlist if they met any of the following criteria:

- Part of a separate upcoming renewal project
- Renewed in the last 5 years

Table 1 below shows the resulting longlist. Of the 17 streets on the initial longlist, 2 in yellow were already part of upcoming planned renewals, and 2 in orange had renewal works completed in the last 5 years. The remaining 13 streets in green formed the final longlist.

The criteria and longlist were presented during a longlist and shortlist criteria meeting on 01/12/2020. Refer to Appendix J for the meeting minutes.

Table 1: Assessment of Longlist

No.	Street	Street length (m)	Total Faults	Faults per 100m
5	NEVADA GR	54	19	35.2
47	MOERAKI RD	239	59	24.7
9	BRISTOL ST	344	66	19.2
3	WHANGAKOKO GR	110	21	19.1
6	ISLINGTON ST	335	63	18.8
7	PEMPSEY ST	385	62	16.1
1	TOTARA ST	278	44	15.8
2	BATHURST ST	163	25	15.3
1	MARLBOROUGH ST	328	47	14.3
1	TAPESTRY GR	186	20	10.8
25	KASHMIR AV	460	42	9.1
1	BONNIE GLEN	515	46	8.9
3	MOLLOYS RD	225	20	8.9
17	EBDENTOWN ST	695	61	8.8
4	MIRO ST	1080	81	7.5
6	HENRY ST	640	48	7.5
8	ROSINA ST	240	18	7.5

4.2 Development of Short-list

Upon longlist selection, further criteria were applied to reach a shortlist. Assets were excluded from the shortlist if they met any of the following criteria:

- Trunk water mains
- In main roads / near schools / shopping areas (potential traffic management issues)
- In known or suspected contaminated land
- In growth areas

After consideration of the above items, the long list was reduced to 6 streets. The short list assessment is shown in Table 2, with the 6 streets highlighted in green forming the final shortlist.

The exclusion of the pipelines listed above reduces the overall risk for this renewals project and allows the project to be delivered in the agreed time frames and in line with the project scope. Minimising complexity of the proposed work areas enables a constant flow of works to the contracting team.

The repair frequency ranking from the longlist was considered through the rest of the selection process.

Table 2: Assessment of Shortlist (Shortlisted streets in green)

No.	Street	Street length (m)	Comments
5	NEVADA GR	54	
47	MOERAKI RD	239	Main Road
9	BRISTOL ST	344	
3	WHANGAKOKO GR	110	
6	ISLINGTON ST	335	
7	PEMPSEY ST	385	part of existing renewals programme
1	TOTARA ST	278	part of existing renewals programme
2	BATHURST ST	163	#2 Bathurst Street is a SLUR site (Clean Fill Site, Fergusson Dr HAIL: Cemeteries and waste recycling, treatment and disposal)
1	MARLBOROUGH ST	328	Difficult access for top section. Some sections already PVC
1	TAPESTRY GR	186	AC ridermain was renewed in 2017
25	KASHMIR AV	460	
1	BONNIE GLEN	515	Ridermain from #21-59 renewed in 2016
3	MOLLOYS RD	225	School located in street
17	EBDENTOWN ST	695	No bursts related to main (CI)
4	MIRO ST	1080	Main Road
6	HENRY ST	640	9 properties are a SLUR sites (Clean Fill Site, Henry St HAIL: Cemeteries and waste recycling, treatment and disposal)
8	ROSINA ST	240	

To assess constructability for each of the shortlisted streets, Peter Mumm (E Carsons) completed a rapid site investigation consisting of visual inspections and works planning. The final selection considered constructability as well as the available budget to determine which streets could best meet the objectives of the project. Bristol Street and Islington Street were selected to form the main scope, with Kashmir Avenue considered a suitably flexible option for extra work in case there was budget remaining/additional budget available. The final selections are shown in Table 3.

The proposed shortlist and final scope selection were discussed during the Safety in Design meeting on 16/12/2020. All comments from the meeting were actioned with the register and minutes circulated for final review. Appendix D shows the Safety in Design assessment with the meeting minutes in Appendix J.

Table 3: Length of Pipes for each Final Selection Street

Final Selection Street (in priority order)	Total Length of New Mains (excl. laterals)		Repairs per 100m of street
	Water mains	Rider mains	
Bristol Street	340 m	335 m	19.2
Islington Street	340 m	335 m	18.8
Kashmir Avenue (extra scope)	Up to 470 m*	Up to 540 m*	9.1
TOTAL	1,150 m	1,210 m	

*Additional scope (if additional budget allows)

4.3 Site Investigations

Site investigations completed to date have been limited to visual inspections with no intrusive investigations completed.

On the 14th of January 2021 GHD, E. Carson and Sons (Carsons) and UHCC's Road Controlling Authority (RCA) met on site to walk along the proposed alignments. At this site walk over the RCA approved the proposed alignments for the new water mains and rider mains. Refer to Appendix I for the correspondence between GHD and UHCC RCA. During this site walkover GHD and Carsons confirmed the preferred locations for potholing works. The potholing work is to confirm the available corridors for the new water mains and rider mains with 5 pothole locations identified in Bristol Street and 6 locations in Islington Street.

4.4 Constructability

As detailed in Section 4.2 of this report, the panel contractor involved in this project (Carsons) led this piece of work with site inspections to understand the site constraints. The inspections indicate there are no unusual risks around constructability.

Pipework was initially designed to be entirely in PE material. To assist constructability Carsons propose to use PE pipe for directional drilling of rider mains but use PVC pipes for open trench construction of the water mains. This allows short lengths of water main to be installed and backfilled resulting in less of the road corridor open at any given time, reducing impact on local residents and reducing space required to store pipe materials on site.

4.5 Capacity

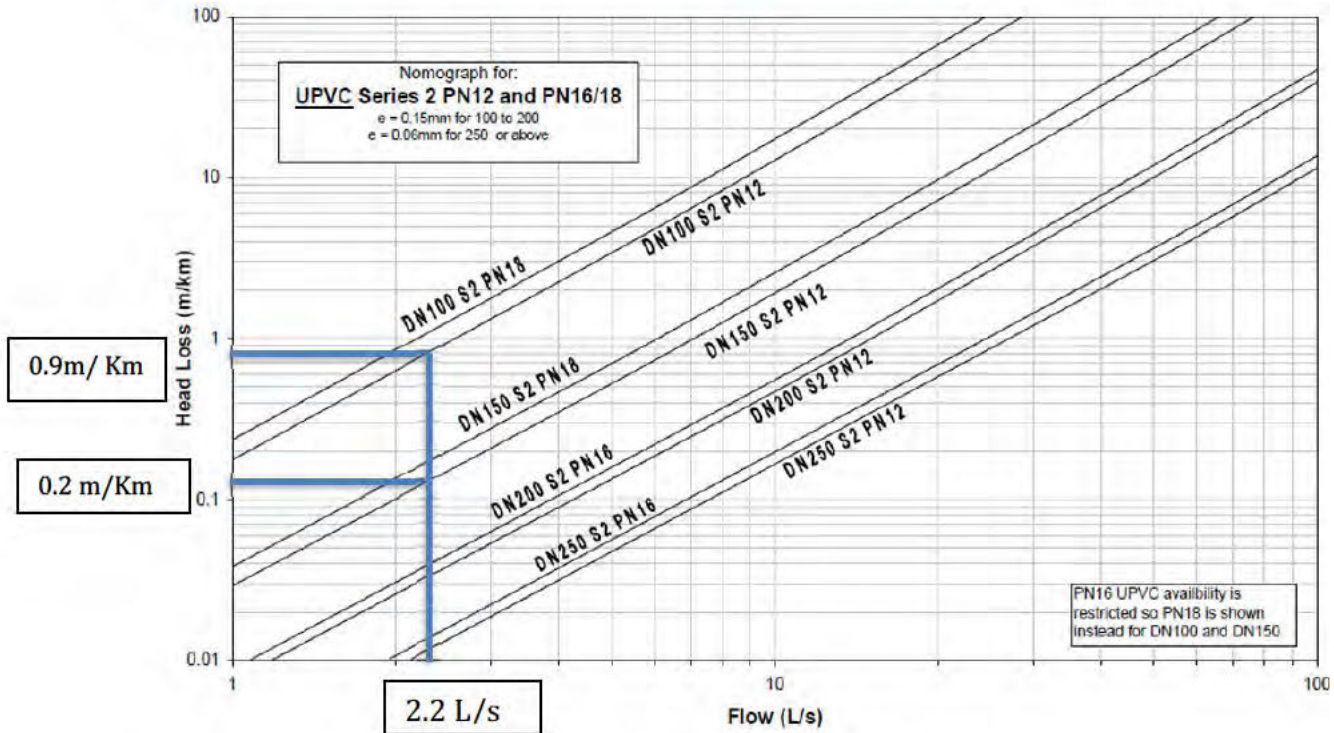
As per Table 5.1 of the Regional Standard, the population per dwelling for UHCC is 3.5. GHD's peak demand calculations are based on a single-end fed water main. This is a conservative approach with both Bristol Street and Islington being double-end fed water mains. The total number of dwellings in

Bristol Street and Islington Street are 38 and 33 respectively. Based on 38 dwellings, the total population per street is 133 people (max).

Using the equation $Q_{peak} = 0.0162 \times \text{population}$ from Section 6.3.1.1 of the Regional Standard, Q_{peak} is calculated as 2.2 L/s.

As calculated in Figure 1, the pipe losses for a DN100 and DN150 uPVC pipeline are 0.9m /Km and 0.2 m/Km respectively at 2.2 L/s flow.

Figure 1: Pipe Losses (From Appendix 9 of the Regional Standard)



As per Table 4, both 100 mm NB and 150 mm NB pipelines meet the allowable pipeline losses. The installation of a 150 mm NB pipeline is preferred as this pipe size will allow for growth and allow for improved water distribution through the wider network.

Table 4: Pipe Capacity

Renewal Pipe (NB)	Pipe Losses (from Figure 1)	Allowable Losses (Taken from Regional Standard)	Pipe Size Ok?
100 mm	0.9 m /Km	<5 m /km	YES
150 mm	0.2 m/Km	<5 m /km	YES

4.6 Scope Selection

As detailed in Section 4.2, Table 3 indicates the final selected scope. Refer to Appendix B for the scope of works and Appendix H for the design drawings.

4.7 Renewal Method

For the water reform renewal project, there is a target to renew 60% of drinking water mains using trenchless technologies. Because most of the mains to be renewed contain asbestos the preferred method for the Upper Hutt water supply renewals is off-line directional drilling. Where directional drilling is proven infeasible due to ground conditions open trench renewal will have to be completed.

The selected renewal methods focus on trenchless renewal methods as a primary option where viable and allow this project to be delivered within the agreed timeframes.

The results of potholing will confirm whether directional drilling is considered practical for the water main and/or ridermain. It is expected that the water main will need to be renewed by open trenching as it is considered unlikely that directional drilling a 150 NB pipeline will be possible.

4.8 Operations and Maintenance

The renewed pipe assets will be less prone to future breakages due to the following reasons:

- The existing pipe sections will be replaced with plastic pipelines that have fewer joints
- The new assets have an expected operational life of 100 years
- Existing aged pipe assets will be decommissioned and abandoned as part of the project

4.9 Assumptions/Deviations from Wellington Water Standards/Processes

The Upper Hutt Water Main Renewals Project has the following deviations from Wellington Water Standards/Processes:

- Gateway approvals have been obtained by gaining endorsement by all parties at meetings. Meeting minutes and relevant documents are circulated for final review after each key meeting.
- Due to the fast track approach for the water reform project, the standard Wellington Water peer review process has not been applied to this project

4.10 Value, Smart Investment and Innovation

This project generates value by:

- Streamlining the delivery process.
- Focussing on renewals which will have the most impact, but with minimal complexity and hence cost.

The streamlined delivery started with the consulting teams engaging early in the project initiation process, working with the Wellington Water Network Engineering Team to enable a fast track approach to the series of Water Reform projects. This included determining how to divide and

deliver work as consultant-contractor teams, a process for quick assessment of which pipelines to renew, and how to manage works within fixed budgets. Additionally the design and review process was simplified to better reflect the less complex work areas being targeted without losing the quality assurance required. By streamlining the delivery process, less time needed to be spent on design development, reducing consulting and management costs, and getting contractors on site much quicker.

Renewal areas were chosen for maximum impact, targeting high priority areas with a high number of historical repairs, as a measure of pipes with limited residual life remaining. Those high priority areas were matched up with constructability considerations to produce a work package that could easily be put into practice by the contracting teams. By giving contractors a steady workload with control of the site-specific programmes, the contractors are able to create efficiencies in time and cost of works across the work package as a whole.

5 Scope of Works

5.1 Proposed Scope

Refer to Section 4.2 for the final selected scope, Appendix B for the scope of works and Appendix H for the design drawings.

5.2 Additional Scope Identified

As detailed in Section 4.2, Kashmir Avenue could be added to the scope of works if additional budget is made available for this project.

5.3 Documentation

Following the approval of the Delivery Plan, a tender drawing set and pricing schedule will be prepared.

GHD will evaluate the tender price received from E Carsons and produce a Price Evaluation Report. Following contract award, contract documentation will be prepared.

6 Proposed Construction Methodology

Works will be undertaken in road reserve and Carsons have started discussions with Upper Hutt Council (UHCC) as the Road Controlling Authority (RCA) to enable access and timely approvals. It is proposed that there be one Corridor Access Request (CAR) and Traffic Management Plan (TMP) to cover both selected streets, Bristol Street and Islington Street. Any further works, including the Kashmir Avenue extra scope, will require an update to those documents. The council will be updated on a regular basis about what works are taking place.

For each street, the construction sequence is as follows:

1. Install the new water main as an off-line renewal
2. Chlorinate, pressure test and bug test the new main
3. Complete a shut down and install the cut-ins at each end, liven the new main
4. Swap house connections from the old main to the new main
5. Install the ridermain
6. Chlorinate, pressure test and bug test the new rider main
7. Swap house connections from the old main to the new ridermain

With this sequence, temporary water supply is not required.

7 Resourcing and Programme

7.1 Procurement Approach and Contractual Engagement

This work has been procured through the Consultancy and CAPEX Contractor panels. This approach enables a direct appointment and for the work to be allocated through a collaborative approach.

The physical works for Upper Hutt will be contained within one contract with E Carsons as the lead contractor. The contract will be set up using the standard Wellington Water 3910 contract. This approach is considered the most cost-effective method to administer the works.

7.2 Project Team

Table 5: Project team

Project role	Name & Company	Phone and email
Engineer to Contract	7(2)(a)	7(2)(a)
Project Manager / Team Lead / Engineer's Rep	7(2)(a)	
Senior Design Engineer / Engineer's Assistant	7(2)(a)	
Graduate Design Engineer	7(2)(a)	
Contractor Lead	7(2)(a)	
Programme Lead	7(2)(a)	
Principal Engineer (Drinking Water)	7(2)(a)	
Customer Planning Engineer (East)	7(2)(a)	
Design Manager	7(2)(a)	
Stakeholder Communications	7(2)(a)	

7.3 Subcontractors/Subconsultants

Subcontractors may be involved in the project to assist with traffic management and surface reinstatement. In the procurement phase the lead contractors will assess the required resources and nominate any subcontractors in the contract documents.

7.4 Programme

Refer to Appendix C for a full programme Gantt chart. This is a live programme and the programme will be updated to include specific renewal information during the procurement stage.

Table 6: Key milestones

Milestone Name	Target Date
Request for Tender	23/04/2021
Gateway 5 – Contract Award	30/04/2021
Construction Start	03/05/2021
Construction End	05/07/2021

8 Risk Management

8.1 Safety in Design

GHD prepared and presented a Safety in Design (SiD) Workshop on 16/12/2020 with Contractors, Wellington Water (WWL) project management, WWL Operations and WWL Network Engineering to discuss SiD, project risks and mitigation strategies. Comments were made on the SiD register presented which was subsequently updated and distributed to all attendees. Refer to Appendix D for the latest Safety in Design Register, Appendix J for the workshop meeting minutes, and Appendix G for a H&S certificate by the designer.

The SiD register is a live document and is to be updated in the procurement phase.

Following the construction phase, the SiD register will be reviewed with Wellington Water to ensure operational and maintenance hazards relating to the project are captured and transferred prior to project closure.

8.2 Risk Register

Refer to Appendix E for the Risk Register, covering financial, environmental, and quality risks.

The key risks for this project are:

- Health and Safety risks – Even with the reduced complexity of the work areas proposed, health and safety risks need to be managed during the design and construction process. Refer to the SiD Register.
- Availability and accuracy of asset data – long- and shortlists are based primarily on desktop assessments of asset data. Lacking or incorrect information could reduce effectiveness of overall renewal programme.
- Reduced quality due to fast track process – management of quality during this project needs consideration as the processes have changed to align into a streamlined process. With early consultant involvement, this is deemed a low risk.
- Cost management – Costs need to stay within the assigned budget as no further funding may be available. It is not desirable that works are left partially complete, this is a moderate risk.
- COVID-19 – Spread of the virus in NZ could lead to working restrictions and possible standdown costs.
- RCA Stakeholder Engagement – Most worksites rely on traffic management making RCA engagement particularly important. Refer to Section 4.3 for further details.

9 Quality Management

9.1 Pre-construction

Wellington Water approved panel consultants and contractors are involved in the design and ECI works. These panel members have a good understanding of the drivers for this fast track project and the required outcomes.

Good quality outcomes can be achieved through the use of renewal methods with a proven track record (directional drilling and open trenching). These renewal methods are standard construction methodologies suitable to a range of pipe materials, sizes and locations. Trenchless construction is supplemented with open trench methods where necessary to achieve the best solution for the overall system.

9.2 Construction

Wellington Water approved panel consultants and contractors are involved in the construction / construction monitoring works. These panel members have a proven track record in the renewal of potable water assets using best practise methods and in accordance with Wellington Water specifications.

Quality during construction will be managed by recording inspection and test plans (ITPs) of all works installed with particular emphasis on pipe joints between construction techniques. In addition to this, regular MSQA site visits during construction and production of as built drawings as works are completed will allow for reviews of the construction.

All new water assets will be chlorinated, pressure tested and bug tested in accordance with the Regional Standard and Regional Specification prior to commissioning.

The shut down planning and cut-ins will be completed in accordance with Wellington Water's standard shut down process.

10 Environmental Management

The proposed renewals are adjacent to existing pipe corridors using trenchless renewal methods where possible. As such, environmental and ecological impacts are kept low. Key impacts and mitigation are instead focussed on the community by minimising noise and traffic disruption around the worksites.

Carsons is to provide an Environmental Management Plan (EMP) which will detail the measures they will take to ensure environmental and ecological impacts are kept as low as possible.

11 Communications and Stakeholder Engagement

This section is specific to the project and does not cover the wider Water Reform Renewals Programme. Renewals Programme level communications/reporting within Wellington Water, client councils and Central Government are the responsibility of the Wellington Water Programme Lead (7(2)(a)) and Programme Communications lead (7(2)(a)).

11.1 Stakeholder Engagement

Key stakeholders on this project include the following:

- Upper Hutt City Council RCA
- Local Iwi
- Local residents and businesses
- Property Owners

11.2 Communications Plan

GHD has developed a Communications Plan which is currently under review by the Wellington Water Communications Manager for the Water Reform Project (7(2)(a)).

Refer to Appendix F for the stakeholder engagement (communications) plan.

12 Budget

Total project budget including project management, contractor and consultant costs is \$1,000,000.

Consultancy and contractor prices are estimates only and are not approved in this Delivery Plan.

Table 7 - Budget Breakdown

Project Phase Scope	Consultancy Estimate (incl. management fee)	Fee	Contractor/Physical Works Budget
Design, Investigations, ECI, Procurement	7(2)(b)(ii)		
Construction Phase			
Project Close Out			
Subtotals			
Consultancy Fee Percentage (%)			
Subtotal (Consultant + Contractor Costs)			
Allowance for Programme Costs (4%)			
Total Budget (ex gst)			\$1,000,000

13 Project Management

13.1 Project records

Project records will be stored in the programme folder on the following Wellington Water's Woogle site: <https://woogle.wellingtonwater.co.nz/project/12315/projdocs/Forms/aByName.aspx>

13.2 Project reporting

The GHD consultant team will prepare a monthly report and upload it to the project documents section of the Woogle project page. Project server will be updated monthly to reflect the latest financial information and project forecasts on or before the final day of the month.

In addition, the team completes the following monthly reporting in the Water Reform Renewal teams reporting site:

- Hours worked per company, per month, per council
- Metres of pipe laid per month broken down by water, diameter and installation methodology.

13.3 Budget Management

The additional pipeline (Kashmir Avenue) can also be added to the scope of works if additional budget becomes available for the project.

The scope of works will be priced by Carsons and assessed by GHD against the available budget. If the budget is insufficient to complete the works, GHD will assess available measures to provide savings to the project. GHD will also liaise with Wellington Water to confirm whether options are available to gain funding from elsewhere.

Regular forecasting/budget tracking will be completed by both the contractor and consultant with this forecast tracked against the budget.

13.4 Escalations and Change Management

Once approved the team is able to work within the scope, budget and overall programme proposed in this Delivery Plan. It is recognised that the budget and timing of specific works within this project may be adjusted once the construction works are priced.

The overall project budget set out in the Activity Brief is fixed and cannot be exceeded. Therefore, any risks that eventuate need to be covered from within this budget. This situation may necessitate a reduction in the amount of work delivered. The Wellington Water Programme Lead should be informed if this situation occurs, but this change does not require formal approval.

Decisions that involve changes to the project scope, budget or overall programme need to follow the Wellington Water change management process set out below. This includes appropriate consultation and the submission of Project Change Requests for changes to budget, programme and/or scope proposed in this Delivery Plan.

The initial point of contact for any escalations or changes is the Wellington Water Programme Lead, except in the administration of NZS3910 contracts in which case any disputes are first escalated to the Engineer.

Appendix A: Brief

Activity brief

Activity Name: UHCC Fast Track Water Main Renewals

Council: Upper Hutt City Council **Catchment / Suburb:** Upper Hutt

Water: Drinking water **Activity Code:** TBC **Date:** 16 Sep 2020

Project Objective:

To reduce water supply outages to customers.

Project Outcomes:

Primary customer outcome:	Resilient networks support our economy
Primary service goal:	3.4 We provide reliable services to customers
Secondary customer outcome:	Respectful of the environment
Secondary Service goal:	2.1 We manage the use of resources in a sustainable way
Primary service objective:	Customers have access to reliable water and wastewater services
Primary performance measure:	Minimise water outages to customers
Secondary service objective:	Water loss
Secondary performance measure:	Minimise water leaks

Available Budget:

- \$1,000,000

Criteria for Selection:

- Areas of known leakage issue as evident from DMA minimum night flow monitoring.
- High repair frequency.
- Predicted failure year.
- High number of water outages impacting customers.
- Potential correlation between water main age, material and number of leaks.

Extent of Physical Work:

- Renew water mains, rider mains and service pipes, except where rider mains or existing service pipes are less than 30 years old and do not have a history of leakage.
- Renew cast iron tobies with new manifolds.

Key activities in scope

Aside from Wellington Water's typical requirements for water main renewal projects, the scope of work for the consultant to undertake includes;

- Gain roading clearance approval from Upper Hutt City Council.
- Workshop with Wellington Water's Network Engineering Team (Principal Engineer), Service Planning and Customer Operation Group on recommended renewals.
- Seek approval for recommended pipe renewals from Network Engineering Principal Engineer Drinking Water and the Chief Advisor Drinking Water.
- Collect and provide a 300 mm long pipe sample from cut in locations. Samples to include abandoned and existing mains where applicable. The collection of pipe samples is to comply with following specifications;

Wellington Water STIP - Pipe Sampling Specification (not for samples known or assumed to contain asbestos)

<https://woogle.wellingtonwater.co.nz/site/nwca/activity/WW%20STIP%20%20Pipe%20Sampling%20Specification%20-%20Other%20v1.0%20feb%202016.docx>

Wellington Water STIP - **Asbestos Containing Material** (ACM) Pipe Sampling Specification.

<https://woogle.wellingtonwater.co.nz/site/nwca/activity/WW%20STIP%20%20Pipe%20Sampling%20Specification%20-%20ACM%20v1.0%20feb%202016.docx>

Background Information

All documents relating to this project, including this activity brief, are stored in the directory below.

<https://woogle.wellingtonwater.co.nz/site/infr/active/Fast%20Track%20Water%20Supply%20Pipe%20Renewals%202020-21>

Woogle ▶ Managing our Projects ▶ Opex Projects ▶ Active ▶ Fast Track Water Supply Pipe Renewals 2020-21

Reference documents

- Water Supply Pipe Risk Assessment procedure.
<https://woogle.wellingtonwater.co.nz/site/bupr/QPulseDocuments/16%20WS%20Pipe%20Risk%20Assessment.docx#search=water%20supply%20reticulation%20pipe>
- UHCC Water Pipes Risk Assessment Database.
<https://woogle.wellingtonwater.co.nz/site/inpl/layouts/15/DocIdRedir.aspx?ID=ACT6-653696722-1177>
- UHCC Main and Ridermain and Service Pipe Faults – 1 July 2009 to 7 June 2019 Master List
<https://woogle.wellingtonwater.co.nz/site/inmg/layouts/15/DocIdRedir.aspx?ID=ACT6-653696722-995>
- Critical mains shapefile.

- InfoAsset data (WWL DPS Team)
- Network fault data (Workforce) (WWL DPS Team)
- Network fault data (City Care’s Chem system) (WWL DPS Team)
- Existing Capital Programme (Project Server)
- [Upper Hutt Three Waters Catchment Growth Assessment](#)
- [Predicted Failure Year – Spatial Data Join \(Source: WSP\)](#)
- [Predicted Failure Year - Spatial Data Join Excel Tables \(Source: WSP\)](#)

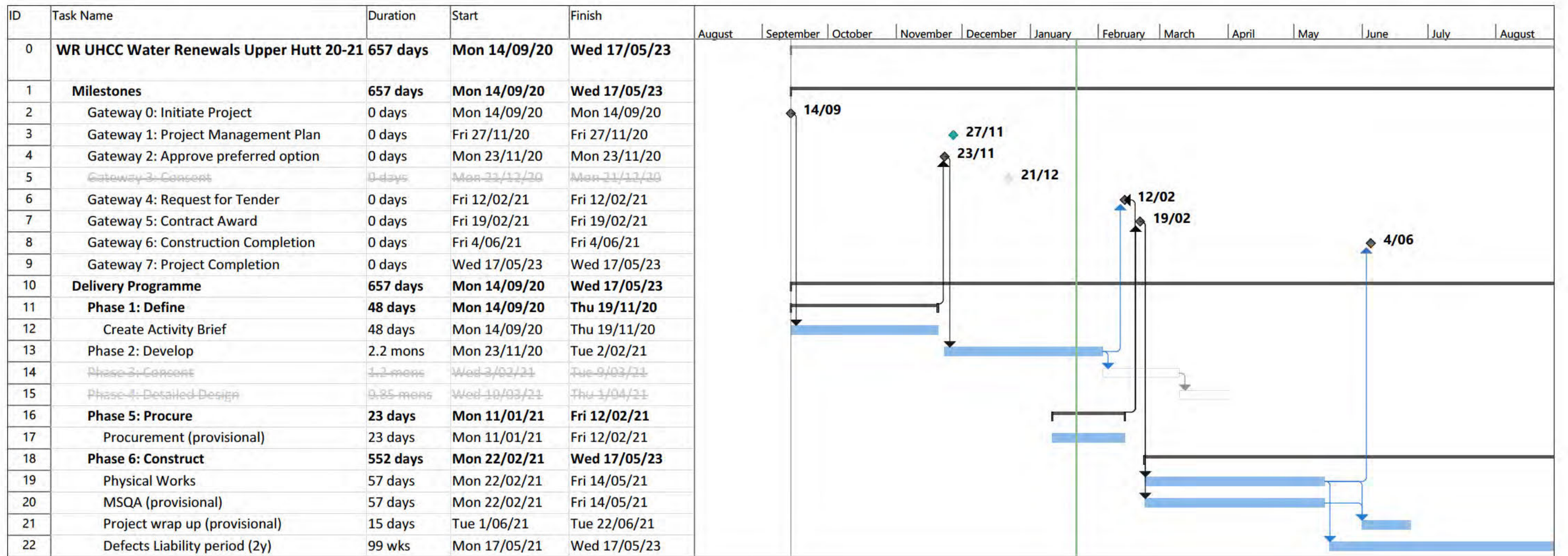
People involved

Activity	Title	Name	Electronic signature	Date
Prepared by	Investigation Engineer	7(2)(a)	7(2)(a)	17/9/20
Checked by	Principal Engineer			17/09/20
Input and reviewed by Customer Outcomes Group	Customer Planning Engineer			22/09/20
Input and reviewed by Service Planning	Engineer			17/09/20
Approved by	Chief Advisor			23/9/20

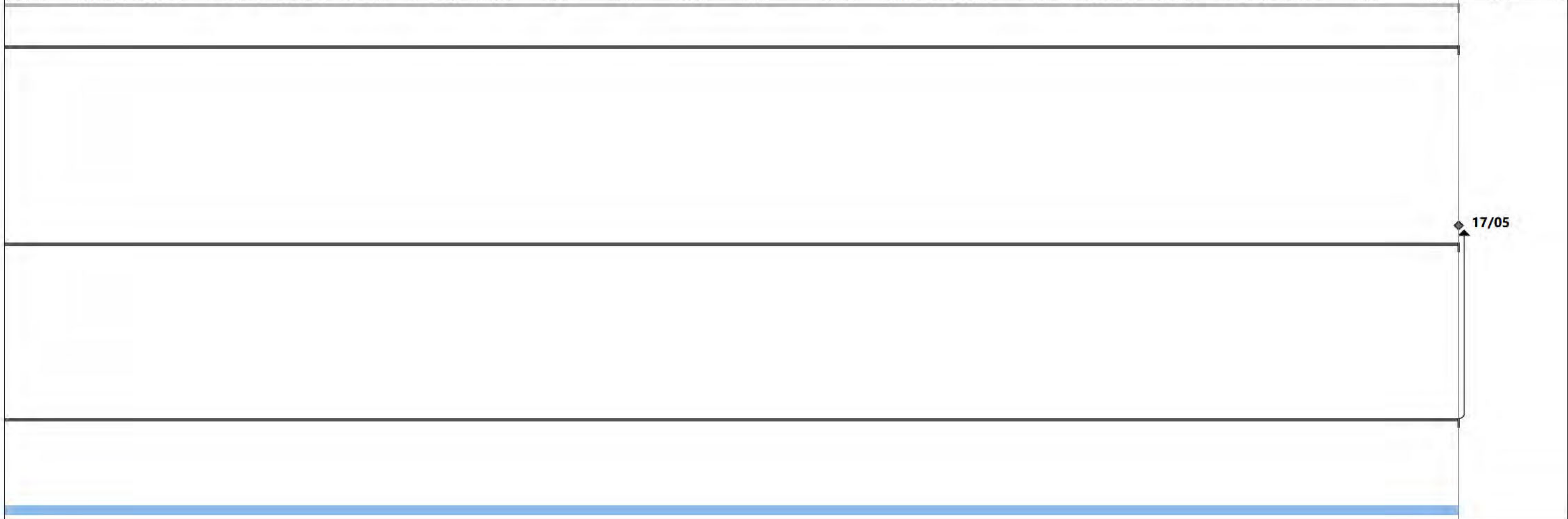
Appendix B: Scope of Works Breakdown

Final Selection Street	Total Length of New Mains (excl. laterals)	
	Water mains	Rider mains
Bristol Street	340 m	335 m
Islington Street	340 m	335 m
TOTAL	680 m	670 m

Appendix C: Programme



Project: WR UHCC Water Renew Date: Fri 22/01/21	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			



Project: WR UHCC Water Renew Date: Fri 22/01/21	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

Appendix D: SID H&S risk assessment

Administration

Project Name	Water Reform - Upper Hutt Water Renewals
Project No. (if applicable)	12541327

Assessment Date	16/12/2020	Asset Type	Water - Pipe	Location / Site Name	Upper Hutt
Designer	[REDACTED]	SID Process Step	Review H&S Risk Assessment (Step IV)		



Safety in Design Process Decisions

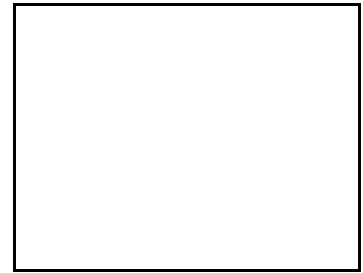
Opex: Technical Input Required? (Step III)	Yes
Design Meeting Required? (Step V)	Yes
Record decision reasoning for Step V:	Part of the agreed process for the Water reform projects
More Detailed Assessment (e.g. Hazop) Required? (Step VIII)	No
Record decision reasoning for Step VIII :	Not considered necessary for the standard renewal project

Safety in Design Stakeholders

Name	7(2)(a)	Role	Project Manager
Name	[REDACTED]	Role	Designer
Name	[REDACTED]	Role	Investigator
Name	[REDACTED]	Role	Operator
Name	[REDACTED]	Role	Investigator
Name	[REDACTED]	Role	Contractor
Name	[REDACTED]	Role	Contractor
Name	[REDACTED]	Role	Project Manager
Name	[REDACTED]	Role	Investigator
Name		Role	
Name		Role	
Name		Role	
Name		Role	

If additional stakeholders are required, select the row above and insert new row. Record Name and Role as per Safety in Design Process.

Supporting documentation



Raw risk						Risk management								
Specific Asset Reference (if applicable)	Risk Source (Hazard)	Risk Description	Raw Consequence	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Risk Owner
N/A	Underground Utilities - underground power cables	Striking underground electrical services during trenching - Severe injury or death by electrocution	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	The proposed renewal alignment will consider existing power cables and create clear distances from this service . Power cables to be displayed on engineering drawings provided to contractor. Potholing exercise to confirm location and depth of cables prior to undertaking any form of open-trench or trenchless installation methodologies. Standover by relevant service provider suggested.	Need to work around existing services in order to complete the project	Designer	Substantial 100	Unlikely 3	High 300	Designer
N/A	Underground Utilities - gas, Vodafone, telcom, stormwater, water, sewer	Striking underground services during trenching - Severe injury or death by out-gassing from main - Severe injury or death by ignition of leaking gas - Asphyxiation due to leaking gas into the trench - Construction adjacent to or crossing other services -Striking underground sewer mains during trenching - Health risk due to exposure to raw sewage - Drowning when trench engulfed by sewage	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Design with minimum clearances to other services - Existing services information shown on drawing and note for contractor to confirm location of services prior to construction - Contractor to address in site specific health and safety plan and complete service markout and pothole ahead of pipe laying - services to be potholed as needed. Potholing exercise to confirm location and depth of services prior to undertaking any form of open-trench or trenchless installation methodologies. Contractor suggested to arrange standover by relevant service provider during excavations.	Existing services are installed throughout the road corridor and property boundaries. Any alignment will likely encounter cables meaning the risk can not be eliminated	Contractor	Substantial 100	Unlikely 3	High 300	Contractor
N/A	Overhead Utilities	Electrocution from contacting overhead power lines or bus cables	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Check clearance to overhead power lines bus cables and prior to work in the vicinity and obtain close approach permit - Contractor to use experienced plant operators when in vicinity of overhead power lines - Contractor to use spotters - Contractor to use small excavator where practical - Bunting suggested as a visual warning of hazard	Overhead wires are present throughout the streets being renewed. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Substantial 100	Unlikely 3	High 300	Contractor

Specific Asset Reference (if applicable)	Risk Source (Hazard)	Risk Description	Raw Consequence	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Risk Owner
N/A	Traffic Or Pedestrian Movement	A traffic collision may result if not managed adequately	Substantial 100	Possible 4	Extreme 400	Minimise	1. Isolate	Appropriate traffic management during project physical works. Appropriate fencing and warning signs will be used. Develop alignments that move new water mains out of the carriageway where possible. Move pedestrian safely to the other footpath as needed. Select renewals that avoid busy streets. Increased traffic volumes may be expected near the Bristol Motel on Bristol Street. Depending on events there may also be increased traffic at Trentham Masonic Centre on Islington Street. If works are required on Ferguson Drive there will be greatly increased traffic compared to other works areas.	Some renewal sections are within the carriageway. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Major 70	Rare 1	Moderate 70	Contractor
N/A	Vehicles And Mobile Equipment	Death or injury may occur if workers or site staff are struck by vehicles or mobile equipment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Separate people from vehicles and mobile equipment SFAIRP. Drive in a forward direction if possible. Use a spotter where required. Ensure all site staff wear correct hi-vis PPE	Equipment and vehicles are necessary to carry out the renewals and could not be eliminated from site	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Working At Height or Raised and Falling Objects	Injury may occur as a consequence of workers falling into any trenches, or objects falling into the trench while workers are inside.	Major 70	Possible 4	High 280	Minimise	1. Engineering Control	Construct entry and exit points in trench. Store any loose materials away from trench wall. Secure any vehicles, equipment or materials that are required near the trench wall. Wear appropriate PPE.	The risks are inevitable when excavating for water main renewals, however these controls can minimise the risks	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Asbestos or Silica	Other services in the area may be made from asbestos cement	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Locate all other services before commencing work. Complete design as a new off-line renewal and leaving the existing AC in the ground. Limit the cutting of existing AC to the minimum required to complete the project. Any cutting and removal of asbestos pipe to be carried out by appropriately trained and qualified personnel using PPE in accordance with Worksafe requirements	The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Project Manager
N/A	Work Environment (Housekeeping)	Injury may occur as a consequence of an untidy site. Aspects include layout, space, lighting, ventilation, uneven/slippery surfaces or obstacles in the environment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Contractor to minimise plant and materials on site and keep the site tidy at all times. All steel plates to be non slip.	The risk exists at constructions sites, however it can be minimised by applying these controls	Contractor	Minor 10	Highly Unlikely 2	Low 20	Contractor
N/A	Services - Water Main	Works around the water main could lead to bursting of the water main, creating an impact hazard as well as a water hazard in the area	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Ensure all water mains are correctly installed in accordance with the design. All workers to stand out of trenches and clear of the new pipeline during commissioning	The risk exists at constructions sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Falling objects - above ground	Risk of undermined trees or power poles collapsing and	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Design clear of power poles and trees. Temporary support of trees and power poles as needed	The risk exists at constructions sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Services – Working With Or Near	Death and/or injuries may occur if power or gas services are struck during construction.	Moderate 40	Likely 5	High 200	Minimise	1. Isolate	Lay new pipes with clear of power and gas services. Implement Worksafe practices for working around services in accordance with the Guide for Safety with Underground Services. Ensure services are located, marked out and potholed. Comply with offset requirements for overhead services. Stand overs and close work permits to be arranged where necessary	Excavation is required to renew water sections with the associated manholes and connections. The location of power and gas services could be inaccurate and will still require locating and potholing.	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Noise	Construction noise occurs resulting in temporary or permanent hearing damage. No work to be undertaken with actual anticipated noise levels of 140 dBA or more. Quieter alternatives must be arranged to reduce sound emitted at source.	Moderate 40	Likely 5	High 200	Minimise	2. Administration Control	Consider use of noise shields. High noise activities shall be limited where possible on site and avoided when public or workers not involved with the activity are near. Hearing protection shall be worn as required	Construction noise is unavoidable, however exposure can be managed easily and safely through application of administration controls and the use of appropriate PPE. No engineering controls are known to exist today.	Contractor	Minimal 1	Highly Unlikely 2	Low 2	Contractor
N/A	Excavation	Collapse of excavation. Where specific H&S risks associated with particular excavations exist, these are assessed individually	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Where applicable, trenchless installation technologies will significantly reduce this risk Sections requiring excavation will comply with Wellington Water's requirements and the Excavation Safety Good Practice Guideline. Do not surcharge through trench sides without specifically designed shoring in place	Some degree of excavation is required regardless of pipe laying methodology	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor

Specific Asset Reference (if applicable)	Risk Source (Hazard)	Risk Description	Raw Consequence	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Risk Owner
N/A	Tools And Equipment (Powered Or Hand)	Improper use of a tool may result in an injury to a worker	Moderate 40	Possible 4	Moderate 160	Minimise	2. Administration Control	Tools and equipment shall only be used by trained users, and programmed checks on tools shall be completed to ensure they are working safely. Follow recommended Wellington Water, Worksafe and industry practices and use appropriate PPE	Tools are required to complete the works, however the risk of injury can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Contractor
N/A	Manual Handling Or Body Stress	A worker may incur a manual handling injury during the course of construction when moving or using materials and/or tools or doing repetitive work.	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Use plant to lift heavy items where possible. Where plant cannot be used, use correct manual handling procedures in accordance with the CoP for Manual Handling and use appropriate PPE	Manual handling is unavoidable, however the risk of injury can be minimised by applying these controls	Contractor	Minor 10	Possible 4	Low 40	Contractor
N/A	Disposal of materials during decommissioning	Disposal of hazardous materials during the decommissioning of the proposed works.	Moderate 40	Unlikely 3	Moderate 120	Minimise	1. Engineering Control	Where possible, avoid the use of hazardous materials. Comply with Materials Safety Data Sheets. Follow recommended safety practices and use appropriate PPE. Less hazardous approved substances to be used where possible	The risk is inherent in the work, but can be minimised by applying these controls	Maintainer	Moderate 40	Unlikely 3	Moderate 120	Maintainer
N/A	Natural Events	Natural events such as earthquakes or extreme winds may occur in the Wellington Region.	Substantial 100	Rare 1	Moderate 100	Minimise	2. Administration Control	No work to be performed on site when winds exceed guideline thresholds. Take appropriate action during earthquakes (drop, cover, hold), then evacuate site.	These risks are inherent to working in the Wellington region, however these steps may be able to reduce the risk consequence	Contractor	Substantial 100	Rare 1	Moderate 100	Contractor

Appendix E: Risk Register

Project Risk Register



Project Name:	Water Reform Renewals - UHCC Water Renewals
Project Number:	12541327

Project Phase:	Initiation
----------------	------------

Project Manager:	7(2)(a)
Risk Assessment Completed By:	
Reviewed By:	

Date:	11-Dec-20
Date:	12-Jan-21

Revision	Date	Reason for revision	Completed By	Reviewed By
A	11/12/2020	Design Phase	James Matthews	7(2)(a)

No	Risk Description	Risk Identification							Consequences			Raw Risk
		Risk Type					Likelihood		Description	Assessment	Rating	
		Harm to people	Reputation and organisational integrity	Harm to environment	Service delivery	Financial impact	Assessment	Rating				
Design												
1	Health and Safety Risks - see safety in design register	✓	✓		✓	✓	Likely	0.8	Injury or death to person	Major	0.5	0.4
2	Inadequate cost management		✓		✓	✓	Possible	0.6	On-site and off-site costs are not managed / forecast correctly and exceed the assigned budget. Worksites may be partially completed when the budget is reached requiring additional funding.	Major	0.5	0.3
3	Availability of bulk water, stormwater, and wastewater asbuilts, earthing, and electrically continuous information				✓		Possible	0.6	Non-provision of information in a timely manner may impact on the delivery of the report to the required timeframes and/or quality of the information provided by the Consultant	Major	0.5	0.3
5	Issues with local residents		✓		✓		Unlikely	0.4	Residents may oppose the renewal works, extending timeframes and restricting access	Major	0.5	0.2
Construction												
1	Impact of COVID-19	✓			✓	✓	Likely	0.8	Programme delays due to government shutdown period and ongoing H&S requirements that affect the ability and availability of staff and materials to be on site. Contractor staff may get sick with Covid-19 if adequate controls are not implemented. Costs to review additional H&S documents are under separate project code.	Major	0.5	0.4
2	Damaged to private property whilst excavating within boundary		✓			✓	Possible	0.6	Actual or perceived damage requiring structural investigations and potential legal action	Moderate	0.3	0.18
3	Bad weather significantly extends construction period	✓			✓	✓	Unlikely	0.4	Affects programme	Moderate	0.3	0.12
4	Stakeholder engagement problems with UHCC RCA.		✓		✓	✓	Unlikely	0.4	If relationship with RCA is badly managed the 'new way' may be stopped causing programme delays and extra costs in the future	Major	0.5	0.2
5	Delays in UHCC approving traffic management plans		✓		✓	✓	Unlikely	0.4	UHCC delay the approval of traffic management plans causing programming and funding issues	Major	0.5	0.2
6	Lack of coordination between traffic management sites		✓		✓		Likely	0.8	Traffic disruption. See also RCA engagement (Construction Risk 4).	Minor	0.1	0.08
7	Injury to residents accessing a construction site	✓	✓				Unlikely	0.4	Serious injury	Major	0.5	0.2
15	Identified services to be crossed, not where expected	✓			✓	✓	Likely	0.8	Increased costs, impact on programme, and possible damage to other services	Major	0.5	0.4
17	Materials Supply not on site when required		✓		✓	✓	Unlikely	0.4	Unavailability of materials causes a delay to project delivery times	Moderate	0.3	0.12
18	Identified services to be crossed, not where expected and can't be moved.		✓		✓	✓	Unlikely	0.4	Redesign required to cross out of location service. Contractor required to halt work until re-design complete.	Moderate	0.3	0.12

Response	Risk Response Measures			
	Response Measures	Effectiveness	Rating	Residual Risk
Mitigate	Follow measures from Safety in Design risk register	Effective	0.3	0.12
Mitigate	Cost forecasts to be updated throughout project to accurately inform of any potential budgeting issues. Reassess any renewal sections which have potential cost blowouts once established on site. Have contingency in place and complete the smaller sites at the end of the project (if budget allows)	Effective	0.3	0.09
Mitigate	Early liaison with Information Directorate and investigations team to develop suitable schematic plan to provide to the consultant is key, detailing locations of likely earthing points and locations where the pipeline is not electrically continuous. A briefing can be provided to the information directorate by the investigations team however ID resource is required to prepare the schematic in a timely manner.	Effective	0.3	0.09
Mitigate	Ensure early and on-going communications with residents to ensure that any activities are understood and accepted, as some sewer sections are crossing private properties	Effective	0.3	0.06
Accept	Regular communication and progress updates between GHD, WWL and contractor to forecast delays and minimise additional costs. Spread of Covid-19 around staff shall be prevented with all site staff shall follow the necessary WWL protocols and follow site specific health and safety instruction from the contractor presented in their induction.	Low Effectiveness	0.7	0.28
Mitigate	Avoid any excavation works in private property where possible. Complete a structural assessment walkover (photos) of effected properties to provide a baseline for comparing any actual or perceived damage	Moderate	0.5	0.09
Accept	Allow for inclement weather in the programme with contingency in place	Effective	0.3	0.036
Mitigate	Weekly communication with RCA to inform of ongoing works. Reasonable response to RCA requests and adjustment of works where required.	Effective	0.3	0.06
Mitigate	Ensure early and on-going liaison with the WWC Traffic Management Team to ensure that any activities are accepted and understood.	Effective	0.3	0.06
Mitigate	Regular updates within project and site teams. Weekly communication with RCA.	Effective	0.3	0.024
Avoid	Fence worksites with WWL standard 1.8 m high fencing, backfill or cover unattended worksites where possible.	Effective	0.3	0.06
Mitigate	Contractor checks service plans, marks out services on road using ground radar or similar, and pot holes ahead of construction to locate in plan and for depth.	Excellent	0.1	0.04
Avoid	Ensure all materials required are on-site, or delivered to Contractor's yard. Contractor to confirm materials are in their possession.	Effective	0.3	0.036
Mitigate	Contractor checks for services. Contractor reviews services with Engineer to confirm services can be crossed by re-locating service as required	Effective	0.3	0.036

Risk Owner	Planned Actions	Actions/Monitoring		
		Action	By When	Action Completed/comments
Various	Refer to SID			Refer to SID
GHD	Monthly forecasting during construction		Ongoing during construction	
GHD	Obtain information from WWL		10/12/2020	Complete
GHD	Develop Comms Plan for WWL review and approval		10/01/2021	Complete
GHD / Contractor	Ongoing monitoring		During construction	
GHD		As required	During construction	
Carsons	Meeting on 19/01/21		Ongoing	Two meetings already held to date
Carsons			Ongoing	
Carsons			Ongoing	Woks completed as necessary
Carsons	Potholing prior to pipe laying		Pre-construction	
Carsons	Ordering of materials as soon as practical		Procurement Phase	
Carsons			Construction Phase	

19	Contaminated soils	✓		✓	✓	✓	Unlikely	0.4	Additional cost and delay in programme if contaminated land is encountered. Possible health risk	Moderate	0.3	0.12
22	Inadequate quality of construction		✓		✓	✓	Rare	0.2	Inadequate compaction of bedding, backfill, and road base construction	Major	0.5	0.1

Mitigate	Council SLUR database investigated to identify potential issues. Scope to exclude SLUR sites. Contractor works to approved environmental management plan and inform Engineer and Wellington Water Limited of any required changes to alignments or methodology, remove contaminated soil and store until disposal approval received	Effective	0.3	0.036
Mitigate	Contractor to be selected from approved contract panel. Contractor to provide approved quality plan. Regular audits carried out by Engineer. Specific quality testing is carried out: - compaction testing, e.g. Nuclear Densometer, Clegg, SCALA penetrometer tests	Excellent	0.1	0.01

Carsons					Construction Phase
Carsons					Construction Phase

Appendix F: Communications Plan

Communications Plan

Water Reform Fast Track Renewals – Upper Hutt

The purpose of this plan is to support the project deliverables by ensuring communications to audiences are relevant, timely, concise and delivered via the right channels.

Project Details

Project Title	Water Reform Fast Track Renewals – Upper Hutt	Project Sponsor	Tonia Haskell Tonia.Haskell@wellingtonwater.co.nz 7(2)(a)
Programme Lead Renewals	7(2)(a)	Comms Lead	7(2)(a)
The timeframe of this project is: from 01/11/2020 to 30/06/2021			

Purpose of the communications plan

Describe why you need a communications plan – i.e. what communication support does the project need?

The Communications Plan informs how key messages and project progress will be reported in support of the Capital Renewals work stream.

The Capital Renewals is a package of work (financed by government Water Reform Stimulus Funding) addressing known infrastructure issues in each council area. The risk of faults and failures is reduced by renewing or replacing assets as a package of work - a more efficient way of working.

One of the expected outcomes of this work is to reduce leakages and future repair works required to maintain the existing water supply network. Reducing future repairs is of significant interest to the Upper Hutt community.

Communications Objectives

What are you trying to achieve from a communications objective – i.e. raise awareness and understanding, get engagement on an issue, change people's behaviour, change people's perceptions? How will you measure your objectives – survey, number of positive/negative complaints etc. etc

Objective	Measures
Communicate the effectiveness of our new collaborative delivery model to DIA and Upper Hutt City Council	Ongoing and regular weekly & monthly reporting

Wellington Water and Upper Hutt City Council reputations are maintained and enhanced	Lack of complaints relating to consultation and engagement Satisfaction with performance
There is clear and consistent messaging through the key phases of the project	Lack of confusion due to regular communications.
Ongoing engagement with the community and stakeholders so they feel informed and able to contribute	Visits to the programme portal
Communication with stakeholders and affected communities is proactive, open and transparent	Regular two-way communications
The worksite is clearly identifiable as a Wellington Water programme of works	Signage standards are met, and the site is tidy

Target audiences

Who is your key audience to help achieve your objectives (i.e. most affected by the project). What do you know about your audience and how they like to receive their information? Note your internal audience and your external audience.

Internal Communications – Programme Lead for renewals Beth Parkin to report internally at Wellington Water regarding programme progress and DIA reporting.

Upper Hutt City Council – RCA team and Communications team. Regular progress updates.

- 7(2)(a) [redacted] – Engagement and Insights Manager
7(2)(a) [redacted]
- 7(2)(a) [redacted] – RCA team
7(2)(a) [redacted]

Community Stakeholders

- Trentham Masonic Centre
General enquiries: 04 527 3910

- [redacted]

How big is your audience?

e.g. approximately 30 households

This plan covers two streets in Upper Hutt. Covers approximately 70 households, 1 motel, 1 community hall, and several small shops.

Communications approach

This is a high-level description about how you are going to achieve your objective (s) and how you are going to communicate to the audiences. For example, will you communicate as per project phases, will you communicate more than once, what channels work best, will you develop special collateral. How will you manage negative publicity.

Collaborative Innovation

The Upper Hutt Potable Water Fast Track Renewals is being completed by the GHD and ECS team.

The intention is for project progress to be socialised via usual Wellington Water websites and social media.

Upper Hutt City Council are also working closely with UHCC RCA using a joined up approach to our community engagement. GHD to provide regular updates to UHCC RCA (Road Controlling Authority) so that operating within the roading corridor will be as easy as possible. This involves regular reporting.

Area	Team Lead	Contractor Lead
Upper Hutt	7(2)(a) [REDACTED] [REDACTED] [REDACTED]	7(2)(a) [REDACTED] [REDACTED] [REDACTED]

The primary work scope proposed is along the full length of Bristol Street and Islington Street, shown in red on the map below. Work along Kashmir Avenue is included as a possible addition to the scope depending on progress and budget remaining from the main works, at which point this document will be updated to suit.



For the purposes of this plan the works will consist of directional drilling and open trench pipe renewals taking place from February through to May 2021. Wellington Water’s customer engagement processes will be followed as per the CAPEX project guidelines and the guidelines specifically developed for this project (*Water Reform Engagement and Communications Guidance*)

Approach details / The Mechanics

- Following contract award, it is proposed to add signboards at each end of the streets within the primary scope. These signboards could include discussion of the general works (water supply renewals in the area). Letter drops will also be undertaken.
- Work to be coordinated with the key stakeholders and regularly updated.
- Team Leads for the Water Reform Renewal Works Programme to meet each week to discuss any issues that arise and the forward programme
- Things to report on:
 - FTE hours for that month
 - Length of pipe in the ground
 - Discoveries – things we didn’t know before that are helpful for asset maintenance/programming

RCA Engagement

RCA Engagement for this part of the Water Reform project follows a mostly “business as usual” approach. ECS will act as the lead contractor for all works, with one CAR and TMP covering the two primary streets in the scope. Additional works, such as Kashmir Avenue, will require additional or updated documentation.

Communication Risks

Outline communications risks that might affect the reputation of Wellington Water and/or this project. How do you intend to mitigate these risks through communication? e.g. Timely communications, clear and concise	
Risk	Mitigation
Affected property owners are concerned about damage to their property	Works are within the public water mains primarily trenchless technology where possible. House connections to properties are included but only up to the property boundary. Ensure communications are clear with property owners to ensure they feel well informed, any disruptions are minimised and impacts are managed.
Residents/Businesses in the area are concerned about traffic impacts	Ensure that communications are clear with residents/Businesses so that they understand the impacts on their traffic movements and parking, including any stop/go measures or lane closures. Maintain driveway access using steel plates where necessary.
Scheduled water shut downs resulting in negative perception of the project	Provide clear communication to residents & businesses around the water disruptions. Provide reasonable timeframes to residents for water shut downs allowing for contingency. Complete trial shut downs as needed. Limit the duration of shut downs where possible.

Breakdown in communication with RCA leading to delays in site access	Site access depends heavily on the RCA. RCA to be engaged early in the process, with regular updates before and during works to maintain efficiency within programme.
COVID-19 risks and perceptions of risk	Manage public impressions through HS processes.
Noise Complaints – Construction Noise	Work within the allowable noise limits. Limit noise where practical

Key Messages

Describe the context – why we are doing this project

- We are trialling a faster, more efficient delivery model, with increased use of trenchless methodologies
- The risk of faults and failures is reduced by renewing or replacing assets as a package of work
- Expected outcomes of this work are to improve water quality, reduce future water distributions (less water main failures) and reduce the annual volume of leakages.
- This programme is part of the Government’s package of work stimulating investment, to assist economic recovery through job creation and to maintain investment in water infrastructure renewals and maintenance; and
- Reforming current water service delivery into larger scale providers, to realise significant economic, public health, environmental and other benefits over the medium to long-term.

Strategic Thinking

1. The Government’s three waters reform stimulus funding is tied to a commitment by councils to cooperate in the ongoing process of sector reform. Wellington Water secured funding for its owners based on a strategic and equitable programme of work.
2. Given the source of the additional funding, and the specific commitments we have made, it is important that we demonstrate we can deliver. This means not only doing the work, but keeping our stakeholders informed about what we’re doing, why and the progress, risks and issues and value.
3. These stakeholders include central government and local government parties with an interest in ongoing sector reform.

Supporting messages for different audiences – make the messages relevant – this will impact you etc.etc.

- The water pipe renewal work is on pipelines that have previously burst multiple times. Works will reduce future disruption.
- We are renewing aged drinking water pipes along Bristol Street and Islington Street by May 2021. These will have an expected operational life of 100 years.

Action Plan

Keep this live and updated.

KEY	Done
	Planned
	Tentative
	Late

OBJECTIVE:					
Action (how you will achieve that objective)	Audience/What	Channels	When	Responsible	Status
Pre-engagement	KRA – invitation to project	Meeting	2/12/20	7(2)(a)	Done
	Internal Comms	Regular meeting	weekly		Planned
	UHCC briefing	Meeting	10/12/20		Done
Preparation	Website entry – relate to portal	Website	28/01/21		Planned
	Signboard for entry to streets	Letter/signs	10/02/21		Planned
	Letter drop to residents	Letter/signs	5 days before construction		Planned
Progress Update	UHCC/Internal/Stakeholders	Email/reports/website Portal	01/02/21		Tentative
Launch	Community/stakeholders	Social	01/02/21		Tentative
Works	Delivery	All	Feb 2021		Full team

Sign-off

	Name	Signed	Date
Project Manager	7(2)(a)		18/2/2021
Wellington Water Communications and Marketing Advisor	7(2)(a)		17/2/2021

Appendix G: H & S Certification by Designer

Health and Safety Certification by Designer

I,7(2)(a).....name

certify that to the best of my knowledge and ability, the design of work that is to be performed in relation to the:

Water Reform – UHCC Watermain Renewals.....name of Project

is such that the work can be performed 'safely' by a contractor using known best practices.

It is my considered opinion that so long as a contractor using known best practices performs the contract work as designed and specified by me, there should be no avoidable harm to persons or property damage.

It is also my considered opinion that requirements of:

- a) The Health and Safety at Work Act 2015;
- b) The Health and Safety at Work Regulations; and
- c) Wellington Water’s health and safety requirements;

would be complied with so long as the work as designed and specified by me is performed by a contractor using known best practices.

I further certify that as long as the work is constructed as designed and specified by me, the completed work will comply with all relevant regulations, legislative requirements, codes of practice, specifications, industry standards and other requirements relating to health and safety.

Signed:7(2)(a).....

Name:7(2)(a).....

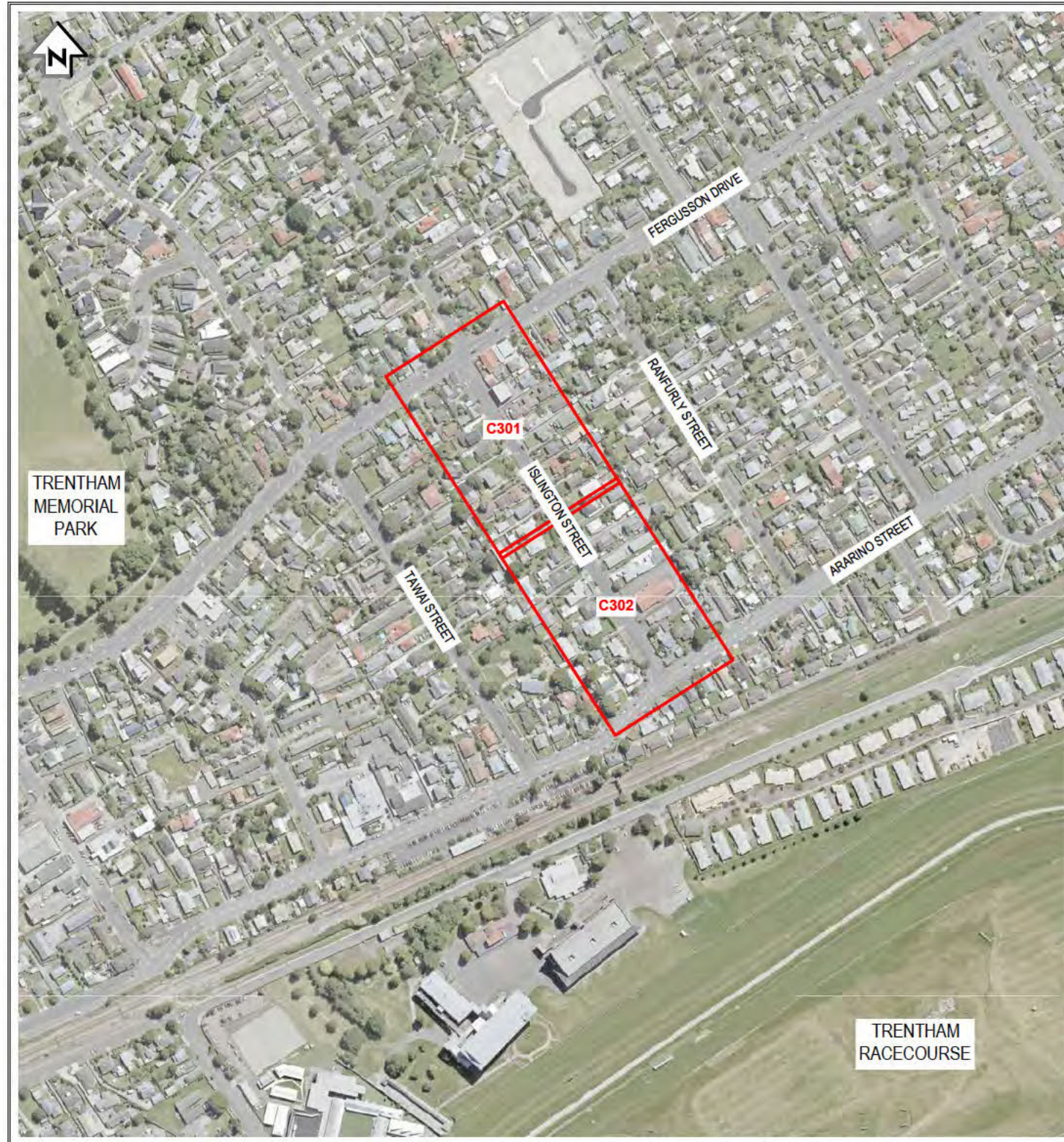
Position:Water Lead (Engineer).....

Name of Company:GHD Ltd.....

Date:28/01/21.....

Appendix H: Design Drawings

WATER REFORM RENEWALS ISLINGTON STREET

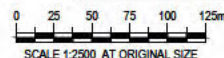


DRAWING REGISTER, DISTRIBUTION AND TRANSMITTAL

DISTRIBUTION		NUMBER OF COPIES					
your company	GHD LIMITED	1	1	1			
CLIENT	WELLINGTON WATER	1	1	1			
CONTRACTOR	-	-	-	-			
	DRAWING ISSUE STATUS OPTIONS: FOR INFORMATION ONLY FOR APPROVAL FOR TENDER ONLY NOT FOR CONSTRUCTION ISSUED FOR CONSTRUCTION AS BUILT (CONSTRUCTION RECORD)	ISSUE STATUS	PRELIMINARY	DETAILED DESIGN	DETAILED DESIGN	FOR TENDER	FOR CONSTRUCTION
			DRAWING PRINT SIZE:	A3	A3	A3	A3
			ISSUE FORMAT:				
			DD	22	04	01	
CAD FILE REFERENCE:	G:\51\12541327\CADD\Drawings	MM	12	03	04		
DRAWING NUMBER	DRAWING TITLE	YY	20	21	21		
12541327-G001	DRAWING REGISTER, TRANSMITTAL NOTICE AND LOCALITY PLAN	A	B	C			
12541327-G002	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 1 OF 3	-	-	A			
12541327-G003	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 2 OF 3	-	-	A			
12541327-G004	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 3 OF 3	-	-	A			
12541327-G005	GENERAL NOTES	-	-	A			
12541327-C101	SERVICE PLAN - SHEET 1 OF 4	A	B	C			
12541327-C102	SERVICE PLAN - SHEET 2 OF 4	A	B	C			
12541327-C103	CONNECTION DETAILS - SHEET 3 OF 4	A	B	C			
12541327-C104	STANDARD TRENCH DETAILS - SHEET 4 OF 4	A	B	C			

A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm



LOCALITY PLAN
SCALE 1:2500

ELECTRONIC COPYRIGHT STATEMENT
CADASTRAL DATA AND AERIAL IMAGERY SOURCED FROM THE LINZ DATA SERVICE AND LICENSED BY LINZ FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 NEW ZEALAND LICENCE

**DETAILED DESIGN
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

GHD
Drawing Originator
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215 Lambton Quay
Wellington, New Zealand
T 64 4 472 0799 F 64 4 472 0833
E wghd@ghd.com
W www.ghd.com

Original Scale (A1)
1:2500 @ A1
Reduced Scale (A3)
1:5000 @ A3

Design
12/20
Drawn
12/20
Dwg Verifier
03/21
Dwg Check
04/21

Approved For Construction*
Date

Wellington Water

Client: WATER REFORM RENEWALS
ISLINGTON STREET

Title: DRAWING REGISTER, TRANSMITTAL
NOTICE AND LOCALITY PLAN

Discipline: CIVIL
Drawing No.: 12541327-G001
Rev.: C

Safety in Design H&S Risk Assessment

Administration

Project Name	Water Reform - Upper Hutt Water Renewals
Project No. (if applicable)	12541327

Assessment Date	16/12/2020	Asset Type	Water - Pipe	Location / Site Name	Upper Hutt
Designer	7(2)(a)	SID Process Step	Review H&S Risk Assessment (Step IV)		



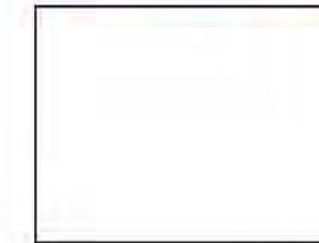
Safety in Design Process Decisions

Opex: Technical Input Required? (Step III)	Yes
Design Meeting Required? (Step V)	Yes
Record decision reasoning for Step V:	Part of the agreed process for the Water reform projects
More Detailed Assessment (e.g. Hazop) Required? (Step VIII)	No
Record decision reasoning for Step VIII:	Not considered necessary for the standard renewal project

Safety in Design Stakeholders

Name	7(2)(a)	Role	Project Manager
Name		Role	Designer
Name		Role	Investigator
Name		Role	Operator
Name		Role	Investigator
Name		Role	Contractor
Name		Role	Contractor
Name		Role	Project Manager
Name		Role	Investigator
Name		Role	
Name		Role	
Name		Role	
Name		Role	

Supporting documentation



If additional stakeholders are required, select the row above and insert new row. Record Name and Role as per Safety in Design Process.

Raw risk					Risk management									
Specific Asset Reference (if applicable)	Risk Source (Hazard)	Risk Description	ISM Consequences	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Risk Owner
N/A	Underground Utilities - underground power cables	Striking underground electrical services during trenching - Severe injury or death by electrocution	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	The proposed renewal alignment will consider existing power cables and create clear distances from this service. Power cables to be displayed on engineering drawings provided to contractor. Potholing exercise to confirm location and depth of cables prior to undertaking any form of open-trench or trenchless installation methodologies. Standover by relevant service provider suggested.	Need to work around existing services in order to complete the project	Designer	Substantial 100	Unlikely 3	High 300	Designer
N/A	Underground Utilities - gas, Vodafone, telcom, stormwater, water, sewer	Striking underground services during trenching - Severe injury or death by out-gassing from main - Severe injury or death by ignition of leaking gas - Asphyxiation due to leaking gas into the trench - Construction adjacent to or crossing other services - Striking underground sewer mains during trenching - Health risk due to exposure to raw sewage - Drowning when trench engulfed by sewage	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Design with minimum clearances to other services - Existing services information shown on drawing and note for contractor to confirm location of services prior to construction - Contractor to address in site specific health and safety plan and complete service markout and pothole ahead of pipe laying - services to be potholed as needed. Potholing exercise to confirm location and depth of services prior to undertaking any form of open-trench or trenchless installation methodologies. Contractor suggested to arrange standover by relevant service provider during excavations.	Existing services are installed throughout the road corridor and property boundaries. Any alignment will likely encounter cables meaning the risk can not be eliminated	Contractor	Substantial 100	Unlikely 3	High 300	Contractor
N/A	Overhead Utilities	Electrocution from contacting overhead power lines or bus cables	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Check clearance to overhead power lines bus cables and prior to work in the vicinity and obtain close approach permit - Contractor to use experienced plant operators when in vicinity of overhead power lines - Contractor to use spotters - Contractor to use small excavator where practical - Bunting suggested as a visual warning of hazard	Overhead wires are present throughout the streets being renewed. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Substantial 100	Unlikely 3	High 300	Contractor

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE

No.	Revision	By	Chk	Appd	Date
A	ISSUED FOR DETAILED DESIGN	SS	KS	CW	01/04/21

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Original Scale (A1)	N.T.S.	Design	12/20	Approved For Construction
Reduced Scale (A3)	N.T.S.	Drawn	12/20	Date
		Design Checker	03/21	
		Drawn	04/21	

* Refer to Revision 1 for Original Signature



Client: **Wellington Water**
 Project: **WATER REFORM RENEWALS ISLINGTON STREET**

Title: **SAFETY IN DESIGN RISK ASSESSMENT SHEET 1 OF 3**

Discipline	CIVIL
Drawing No.	51-12541327-G002
Rev.	A

DETAILED DESIGN NOT FOR CONSTRUCTION

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A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

Specific Asset Reference ID (optional)	Risk Scenario (Incident)	Risk Description	How to Consequence	Frequency/Duration	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Frequency	Residual Risk Rating	Risk Owner
N/A	Traffic Or Pedestrian Movement	A traffic collision may result if not managed adequately	Substantial 100	Possible 4	Critical 400	Minimise	1. Isolate	Appropriate traffic management during project physical works. Appropriate fencing and warning signs will be used. Develop alignments that move new water mains out of the carriageway where possible. Move pedestrian safely to the other footpath as needed. Select renewals that avoid busy streets. Increased traffic volumes may be expected near the Bristol Motel on Bristol Street. Depending on events there may also be increased traffic at Trentham Masonic Centre on Islington Street. If works are required on Ferguson Drive there will be greatly increased traffic compared to other works areas.	Some renewal sections are within the carriageway. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Major 70	Rare 1	Moderate 70	Contractor
N/A	Vehicles And Mobile Equipment	Death or injury may occur if workers or site staff are struck by vehicles or mobile equipment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Separate people from vehicles and mobile equipment SFAIRP. Drive in a forward direction if possible. Use a spotter where required. Ensure all site staff wear correct hi-vis PPE	Equipment and vehicles are necessary to carry out the renewals and could not be eliminated from site	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Working At Height or Raised and Falling Objects	Injury may occur as a consequence of workers falling into any trenches, or objects falling into the trench while workers are inside.	Major 70	Possible 4	High 280	Minimise	1. Engineering Control	Construct entry and exit points in trench. Store any loose materials away from trench wall. Secure any vehicles, equipment or materials that are required near the trench wall. Wear appropriate PPE.	The risks are inevitable when excavating for water main renewals, however these controls can minimise the risks	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Asbestos or Silica	Other services in the area may be made from asbestos cement	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Locate all other services before commencing work. Complete design as a new off-line renewal and leaving the existing AC in the ground. Limit the cutting of existing AC to the minimum required to complete the project. Any cutting and removal of asbestos pipe to be carried out by appropriately trained and qualified personnel using PPE in accordance with Worksafe requirements	The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Project Manager
N/A	Work Environment (Housekeeping)	Injury may occur as a consequence of an untidy site. Aspects include layout, space, lighting, ventilation, uneven/slippery surfaces or obstacles in the environment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Contractor to minimise plant and materials on site and keep the site tidy at all times. All steel plates to be non slip.	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minor 10	Highly Unlikely 2	Low 20	Contractor
N/A	Services - Water Main	Works around the water main could lead to bursting of the water main, creating an impact hazard as well as a water hazard in the area	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Ensure all water mains are correctly installed in accordance with the design. All workers to stand out of trenches and clear of the new pipeline during commissioning	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Falling objects - above ground	Risk of undermined trees or power poles collapsing and	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Design clear of power poles and trees. Temporary support of trees and power poles as needed	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Services - Working With Or Near	Death and/or injuries may occur if power or gas services are struck during construction.	Moderate 40	Likely 5	High 200	Minimise	1. Isolate	Lay new pipes with clear of power and gas services. Implement Worksafe practices for working around services in accordance with the Guide for Safety with Underground Services. Ensure services are located, marked out and potholed. Comply with offset requirements for overhead services. Stand overs and close work permits to be arranged where necessary	Excavation is required to renew water sections with the associated manholes and connections. The location of power and gas services could be inaccurate and will still require locating and potholing.	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Noise	Construction noise occurs resulting in temporary or permanent hearing damage. No work to be undertaken with actual anticipated noise levels of 140 dBA or more. Quieter alternatives must be arranged to reduce sound emitted at source.	Moderate 40	Likely 5	High 200	Minimise	2. Administration Control	Consider use of noise shields. High noise activities shall be limited where possible on site and avoided when public or workers not involved with the activity are near. Hearing protection shall be worn as required	Construction noise is unavoidable, however exposure can be managed easily and safely through application of administration controls and the use of appropriate PPE. No engineering controls are known to exist today.	Contractor	Minimal 1	Highly Unlikely 2	Low 2	Contractor
N/A	Excavation	Collapse of excavation. Where specific H&S risks associated with particular excavations exist, these are assessed individually	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Where applicable, trenchless installation technologies will significantly reduce this risk Sections requiring excavation will comply with Wellington Water's requirements and the Excavation Safety Good Practice Guideline. Do not surcharge through trench sides without specifically designed shoring in place	Some degree of excavation is required regardless of pipe laying methodology	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk.	Appd.	Date
A	ISSUED FOR DETAILED DESIGN	SS	BC	CW	12/2020

	Drawing Date/Issue	Original State (A1)	Design	12/20	Approved For Construction
	Level 1, Great Thomson House 215 Lambton Quay Wellington, New Zealand T 64 4 472 0799 F 64 4 472 0633 E engineering@ghd.com W www.ghd.com	N.T.S.	Drawn	12/20	Date
			Design Checker	04/21	
			Drawn		
			Design Checker		
			Drawn		
			Design Checker		

* Refer to Revision 1 for Original Signature

Client: Wellington Water

Project: WATER REFORM RENEWALS
ISLINGTON STREET

Title: SAFETY IN DESIGN
RISK ASSESSMENT
SHEET 2 OF 3

Discipline	CIVIL
Drawing No.	51-12541327-G003
Rev.	A

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Specific Assn Reference (if available)	Risk Source (Hazard)	Risk Description	Raw Consequence	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Responsible
N/A	Tools And Equipment (Powered Or Hand)	Improper use of a tool may result in an injury to a worker	Moderate 40	Possible 4	Moderate 160	Minimise	2. Administration Control	Tools and equipment shall only be used by trained users, and programmed checks on tools shall be completed to ensure they are working safely. Follow recommended Wellington Water, Worksafe and Industry practices and use appropriate PPE	Tools are required to complete the works, however the risk of injury can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Contractor
N/A	Manual Handling Or Body Stress	A worker may incur a manual handling injury during the course of construction when moving or using materials and/or tools or doing repetitive work.	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Use plant to lift heavy items where possible. Where plant cannot be used, use correct manual handling procedures in accordance with the CoP for Manual Handling and use appropriate PPE	Manual handling is unavoidable, however the risk of injury can be minimised by applying these controls	Contractor	Minor 10	Possible 4	Low 40	Contractor
N/A	Disposal of materials during decommissioning	Disposal of hazardous materials during the decommissioning of the proposed works.	Moderate 40	Unlikely 3	Moderate 120	Minimise	1. Engineering Control	Where possible, avoid the use of hazardous materials. Comply with Materials Safety Data Sheets. Follow recommended safety practices and use appropriate PPE. Less hazardous approved substances to be used where possible	The risk is inherent in the work, but can be minimised by applying these controls	Maintainer	Moderate 40	Unlikely 3	Moderate 120	Maintainer
N/A	Natural Events	Natural events such as earthquakes or extreme winds may occur in the Wellington Region.	Substantial 100	Rare 1	Moderate 100	Minimise	2. Administration Control	No work to be performed on site when winds exceed guideline thresholds. Take appropriate action during earthquakes (drop, cover, hold), then evacuate site.	These risks are inherent to working in the Wellington region, however these steps may be able to reduce the risk consequence	Contractor	Substantial 100	Rare 1	Moderate 100	Contractor

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

DETAILED DESIGN
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No.	Revision	By	Chk	Appd	Date
A	ISSUED FOR DETAILED DESIGN	SS	BC	CW	12/2020

	Drawing Originator	Original Scale (A1)	Design	12/20	Approved For Construction
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		Reduced Scale (A3)	Design Checker	03/21	Date
		N.T.S.	* Refer to Revision 1 for Original Signature	04/21	

	Client	Project	Water Reform Renewals ISLINGTON STREET
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Title	Safety in Design Risk Assessment SHEET 3 OF 3
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Discipline	CIVIL
Drawing No.	51-12541327-G004
Rev.	A

Document Path: N:\NEWELINGTON\PROJECTS\112541327\CADD\DRAWING\SUBPLOT\WATERISLINGTON STREET Document No. 12541327-G002-G004.DWG

GENERAL NOTES

- PIPES, CABLES AND OTHER UTILITIES, FOUNDATIONS, LEVELS, REFERENCE MARKS AND OTHER OBSTRUCTIONS INDICATED ON THIS DRAWING ARE BASED ONLY ON READILY AVAILABLE RECORD PLANS AND OTHER INFORMATION. THIS INFORMATION MAY NOT BE COMPLETE, ACCURATE OR UP TO DATE PRIOR TO CARRYING OUT ANY EXCAVATION OR OTHER PHYSICAL WORK. CONTRACTORS SHALL OBTAIN THE LATEST INFORMATION FROM UTILITY PROVIDERS AND CARRY OUT DETAILED EXPLORATORY WORK, TRACING, LOCATING, PROTECTION, ISOLATION AND ALTERATIONS AS REQUIRED UNDER NZS 3910 CLAUSE 5.13. CONTRACTOR MUST FOLLOW OSH GUIDELINES FOR SAFE LOCATION OF UNDERGROUND SERVICES.
- RESIDENTS SHALL BE ADEQUATELY NOTIFIED PRIOR TO WORKS COMMENCING, AND 24 HOURS PRIOR TO DISRUPTION OF SERVICE.
- ALL CARE MUST BE TAKEN BY THE CONTRACTOR NOT TO DAMAGE PRIVATE PROPERTY, OR ANY GARDENED AREA OTHER THAN THOSE NECESSARY AS PART OF THE WORKS.
- ALL WORKS ARE TO BE CONSTRUCTED USING BEST TRADE PRACTICES.
- APPROVAL MUST BE SOUGHT FROM THE ENGINEER PRIOR TO REMOVAL OF ANY FIXTURE (I.E. FENCE, TREE) IN PRIVATE PROPERTY.
- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL CODE OF PRACTICE FOR UTILITIES ACCESS TO TRANSPORT CORRIDORS HUTT VALLEY LOCAL CONDITIONS APRIL 2011, NATIONAL CODE OF PRACTICE FOR UTILITIES ACCESS TO THE TRANSPORT CORRIDOR NOVEMBER 2011 REGIONAL STANDARD FOR WATER SERVICES NOVEMBER 2012 CAPACITY, WELLINGTON WATER APPROVED MATERIALS REGISTER 2014 AND MANUFACTURER'S SPECIFICATIONS.

WATER NOTES

- THE CONTRACTOR TO CHECK INVERT LEVELS OF EXISTING AND PROPOSED SYSTEM AND ADVISE ENGINEER OF ANY ANOMALIES PRIOR TO COMMENCING PIPE LAYING.
- WATER MAIN IS TO BE SCOURED TO REMOVE ALL DEBRIS BEFORE COMMISSIONING TESTING AND SERVICES ARE CONNECTED TO HOUSES.
- MINIMUM COVER OF 750mm AT ALL PLACES MEASURED FROM THE GROUND SURFACE. MAXIMUM COVER TO BE 1350mm.
- CONCRETE THRUST BLOCKS TO BE CONSTRUCTED ON ALL BENDS, TAPERS, TEES AND DEAD ENDS, CONCRETE TO BE 20 MPa, THRUST BLOCKS TO BE CONSTRUCTED TO MAINTAIN ACCESS TO THE BOLTS, ADJACENT JOINTS / FLANGES AND FITTINGS. CONCRETE THRUST BLOCKS TO BE SIZED AS PER REGIONAL STANDARD FOR WATER SERVICES (JULY 2016).
- ALL BACKFILL MATERIAL SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm IN LOOSE DEPTH.
- THE CONTRACTOR SHALL CARRY OUT SCALA PENETROMETER TESTING AT NOT MORE THAN 5m DISTANCES ALONG TRENCH, THE RESULTS MUST BE RECORDED AND MADE AVAILABLE TO THE ENGINEER. A COMPACTION OF NOT LESS THAN 7 BLOWS / 50mm, 4 BLOWS / 50mm AND 2 BLOWS / 50mm IN CARRIAGEWAYS, FOOTPATHS AND BERMS RESPECTIVELY MUST BE ACHIEVED.
- DETECTOR TAPE MUST BE LAID ABOVE ALL WATER PIPES IN ACCORDANCE WITH REGIONAL STANDARDS FOR WATER SERVICES.
- CONTRACTOR TO REMOVE ABANDONED VALVES AND HYDRANTS. NOTE ALL REINSTATEMENT IS TO COMPLY WITH NATIONAL CODE OF PRACTICE FOR UTILITY OPERATOR'S ACCESS TO TRANSPORT CORRIDORS.
- LOCATION AND REQUIREMENTS FOR BENDS SHOWN ARE INDICATIVE. CONTRACTOR TO CONFIRM SPECIFIC LOCATIONS AND REQUIREMENTS WITH ENGINEER ON SITE.
- SERVICE CONNECTION LOCATIONS ARE INDICATIVE ONLY, SERVICE PIPES SHALL BE LAID PERPENDICULAR TO THE MAIN. ALL SERVICE PIPES SHALL BE EXTENDED TO THE NEW MAIN.

UNDERGROUND GAS PIPES

**MACHINE DIGGING
STRATEGIC INTERMEDIATE PRESSURE (FEEDER MAIN OPERATING AT PRESSURES GREATER THAN 700 KPa (100 psi) AND MEDIUM PRESSURE GAS PIPES)**

(A) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 1.0m FROM ANY STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS MAINS OR SERVICES. ANY EXCAVATION WORK WITHIN THE DISTANCE MUST BE PERFORMED BY HAND DIGGING AND UNDER THE OBSERVATION OF A POWERCO APPROVED WORKS PROTECTION OBSERVER INCLUDING THE BACKFILLING OPERATION.

(B) PLEASE REFER TO THE POWERCO STANDARD "EXCAVATION WORKS IN THE VICINITY OF STRATEGIC CABLES AND PIPES" BEFORE COMMENCING EXCAVATION WORK IN THE VICINITY OF STRATEGIC GAS PIPES.

MEDIUM AND LOW PRESSURE GAS PIPES

(C) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 500mm FROM ANY MEDIUM OR LOW PRESSURE GAS MAIN OR SERVICE UNLESS THE POSITION OF THE PIPES HAS BEEN VERIFIED BY HAND DIGGING AND EXPOSING THEM FIRST.

NOTIFICATION OF WORK NEAR STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS PIPES

(A) AT LEAST 2 WORKING DAYS NOTICE MUST BE GIVEN TO POWERCO PRIOR TO ANY EXCAVATION WORK TAKING PLACE.

(B) IT IS THE EXCAVATION CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWERCO HELP DESK ON 0800 769 372 FOR THE ABOVE NOTIFICATION.

(C) THE EXCAVATION CONTRACTOR WILL BE ISSUED WITH A WORKS AGREEMENT WHICH MUST BE COMPLETED AND SIGNED PRIOR TO ANY EXCAVATION WORK TAKING PLACE NEAR ANY STRATEGIC INTERMEDIATE PRESSURE OR MEDIUM PRESSURE GAS PIPES.

LOCATION OF OTHERS SERVICES

(A) INTERMEDIATE PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 300mm FROM ANY INTERMEDIATE PRESSURE GAS PIPE.

(B) LOW OR MEDIUM PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 150mm FROM ANY LOW OR MEDIUM PRESSURE GAS PIPE.

UNDERGROUND POWER

AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. HAND DIGGING IS REQUIRED WHEN EXCAVATING WITHIN 1m OF CABLE. REPLACEMENT TRENCH BACKFILL MATERIAL MUST BE THE SAME AS THAT REMOVED AND MUST BE REPLACED TO THE SAME LEVEL OF COMPACTION.

UNDERGROUND TELECOM

ONSITE CABLE LOCATE OR STANDOVER IS REQUIRED IF WORKING WITHIN 1m OF THESE CABLES. AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. FOR LOCATE AND STANDOVER CONTACT 0800 248 344.

A3 REPRODUCTION SCALE
100
80
60
40
20
0mm
50
40
30
20
10
0mm

No.	Revision	By	Chk	Appd	Date
A	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21

	Drawing Originator	Original Scale (A1)	Design	12/20	Approved For Construction
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		Redlined Scale (A3)	Design Checker	04/21	
		N.T.S.	*Refer to Revision 1 for Original Signature		

	Client	Project	Water Reform Renewals ISLINGTON STREET
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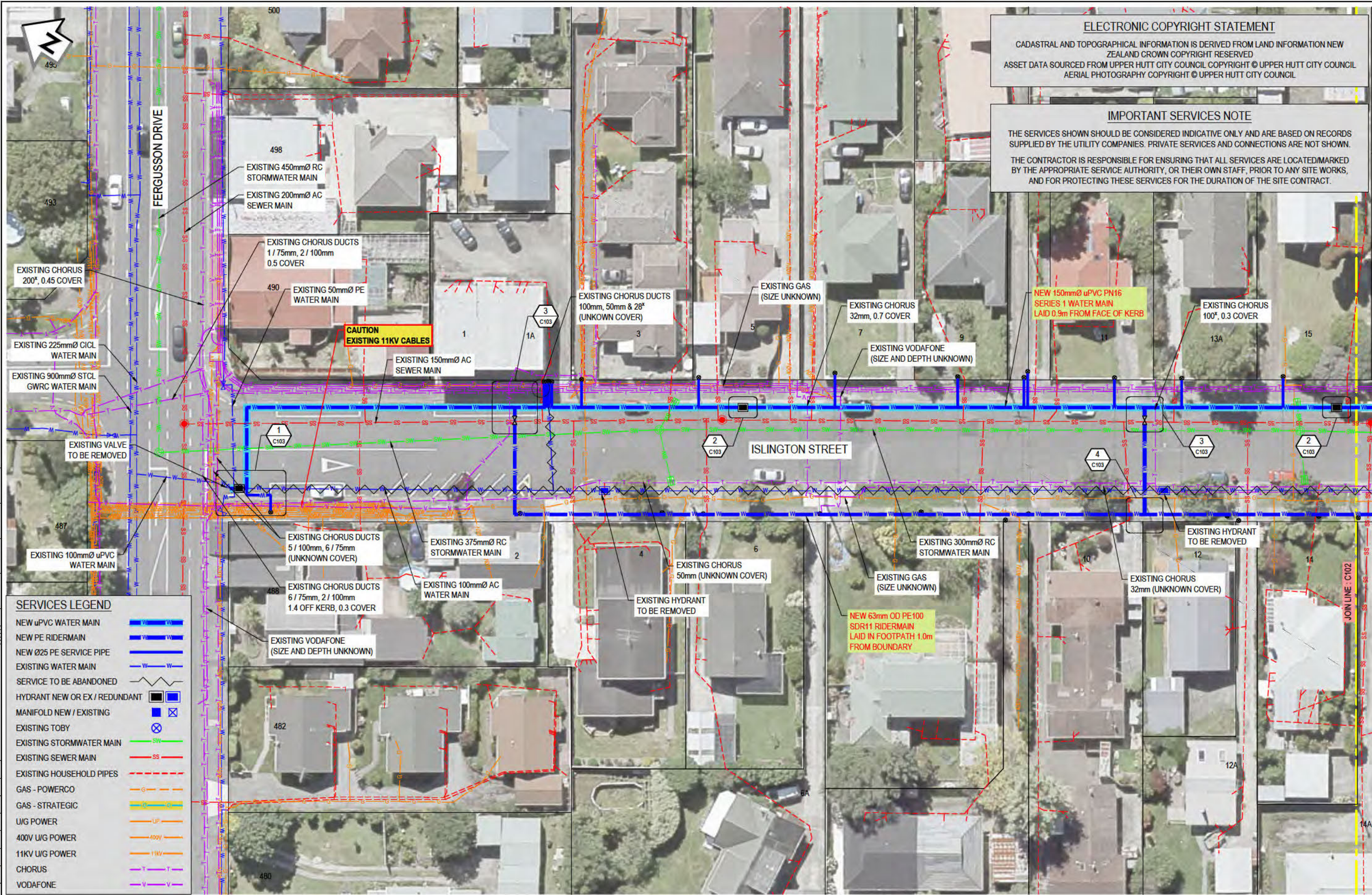
Title	GENERAL NOTES
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Discipline	CIVIL
Drawing No.	12541327-G005

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 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SERVICES ARE LOCATED/MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITE WORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE SITE CONTRACT.

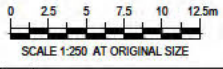


A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SERVICES LEGEND

NEW uPVC WATER MAIN	
NEW PE RIDERMAIN	
NEW Ø25 PE SERVICE PIPE	
EXISTING WATER MAIN	
SERVICE TO BE ABANDONED	
HYDRANT NEW OR EX / REDUNDANT	
MANIFOLD NEW / EXISTING	
EXISTING TOBY	
EXISTING STORMWATER MAIN	
EXISTING SEWER MAIN	
EXISTING HOUSEHOLD PIPES	
GAS - POWERCO	
GAS - STRATEGIC	
U/G POWER	
400V U/G POWER	
11KV U/G POWER	
CHORUS	
VODAFONE	



No.	Revision	By	Chk	Appd	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

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Original Scale (A1): 1:250 @ A1
 Design: 12/20
 Drawn: 12/20
 Reduced Scale (A3): 1/2 SHOWN
 Design Check: 03/21
 Date: 04/21

Approved For Construction: [Signature]

Wellington Water

Project: WATER REFORM RENEWALS ISLINGTON STREET

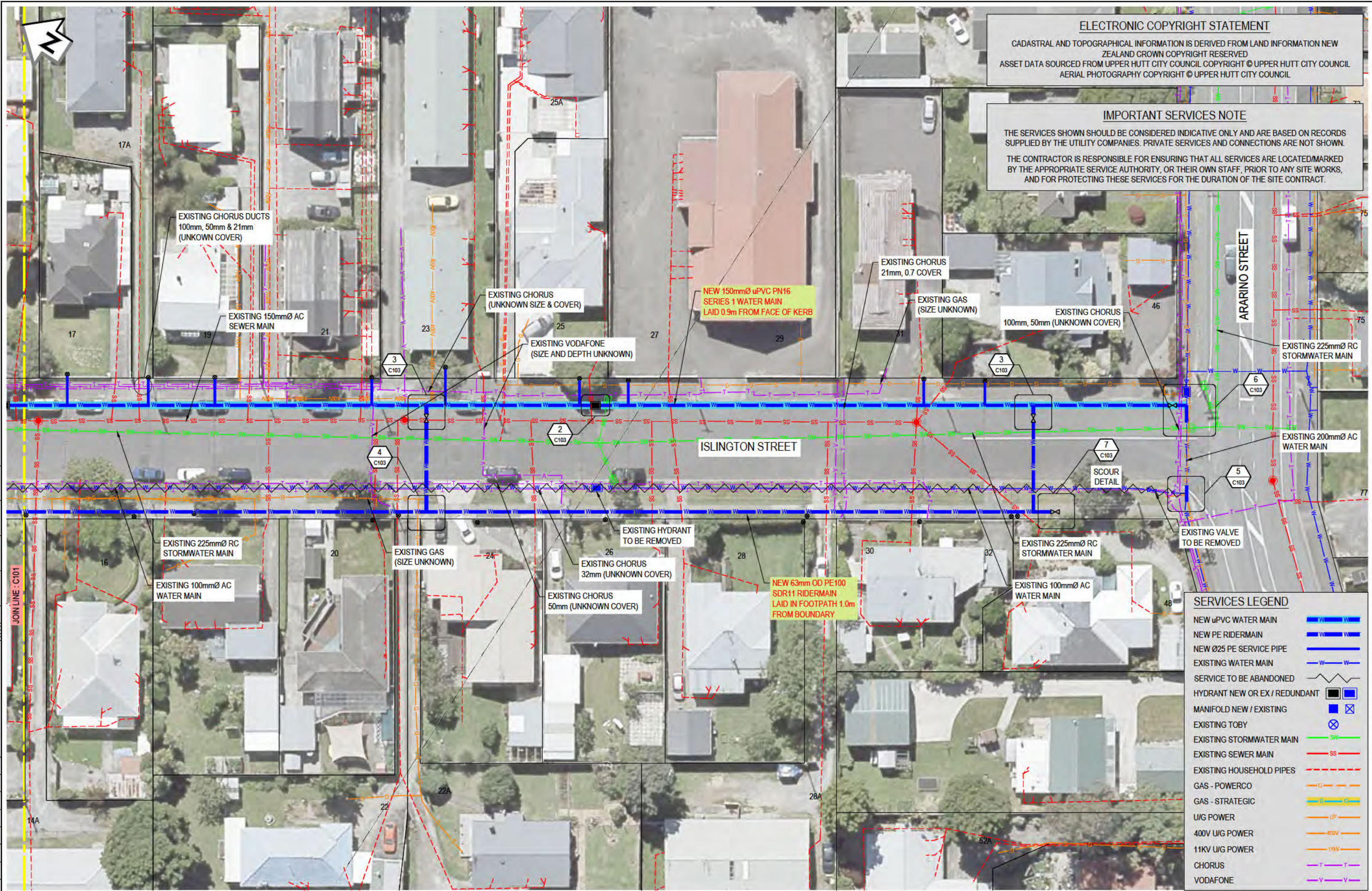
Title: SERVICE PLAN SHEET 1 OF 4

Discipline:	CIVIL
Drawing No.:	12541327-C101
Rev.:	C

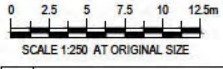
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A1 REPRODUCTION SCALE
 A2 REPRODUCTION SCALE



No.	Revision	By	Chk.	Appd.	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

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 Reduced Scale (A3)
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Design
 12/20
 Drawn
 12/20
 Dwg Verifier
 03/21
 Dwg Check
 04/21
 Date

Approved For Construction
 Date

Client: **Wellington Water**

Project: **WATER REFORM RENEWALS ISLINGTON STREET**

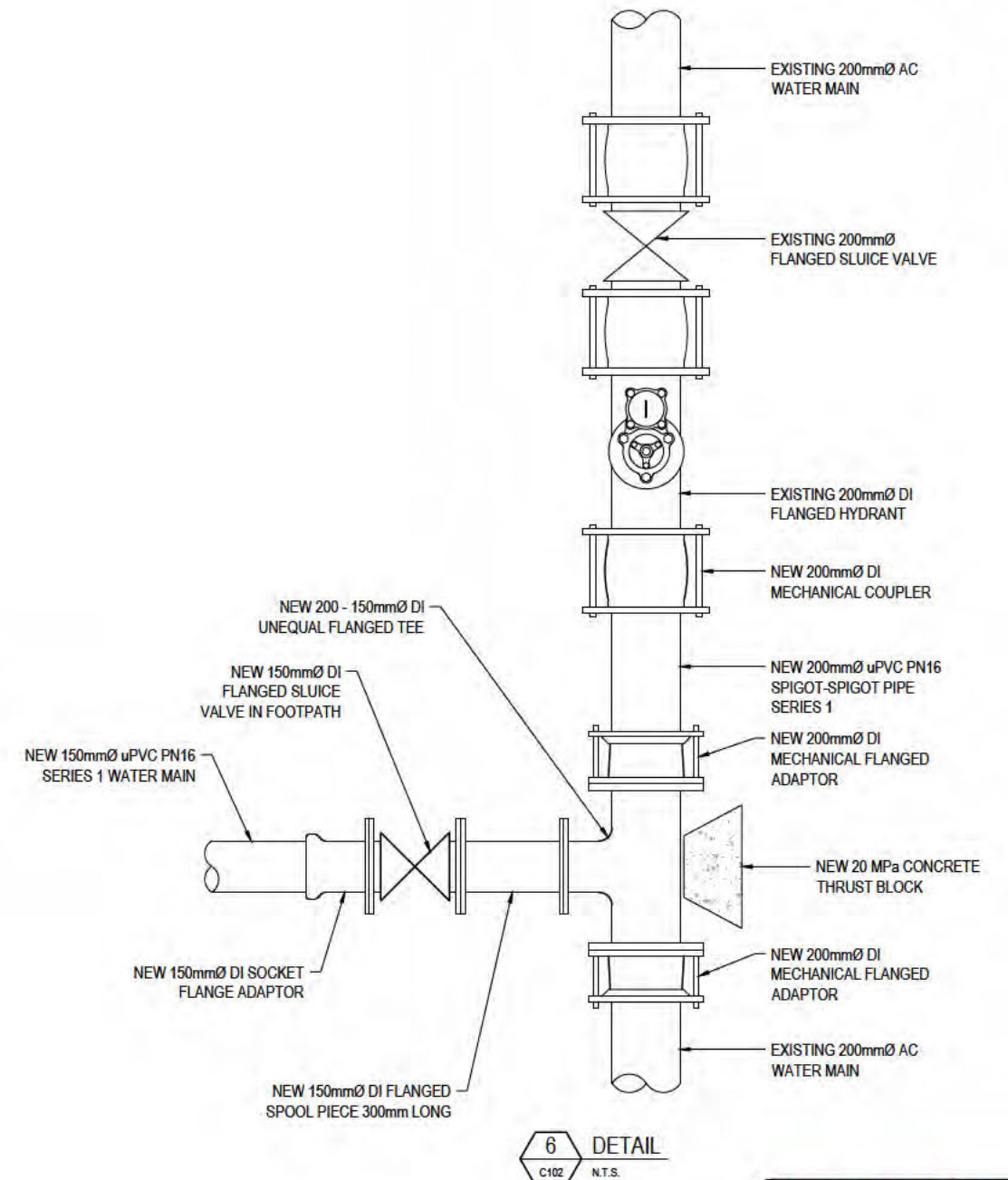
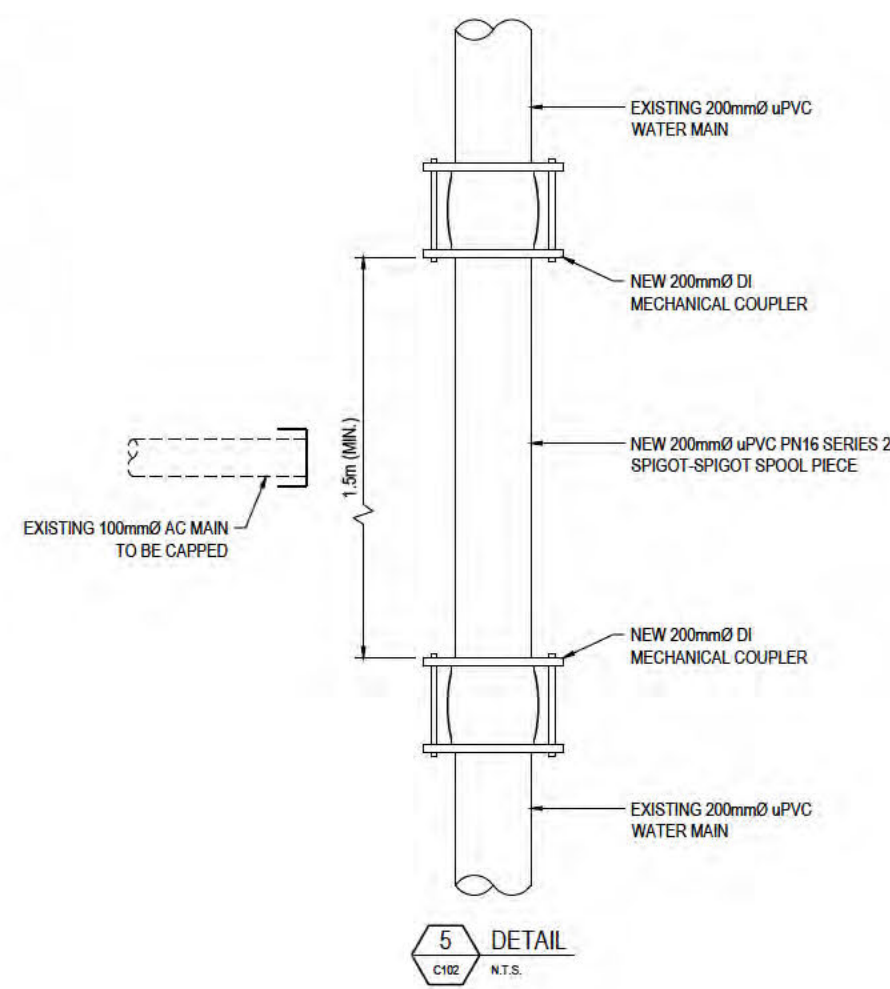
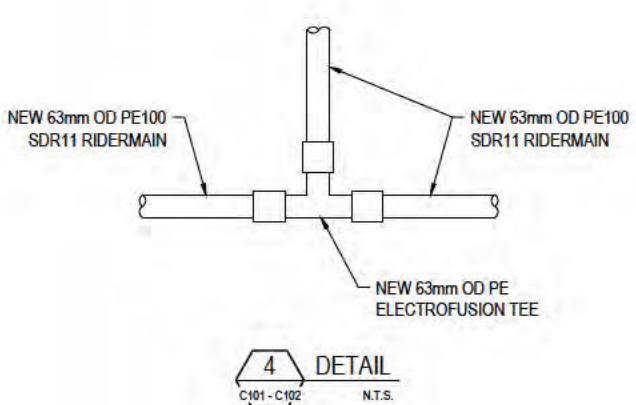
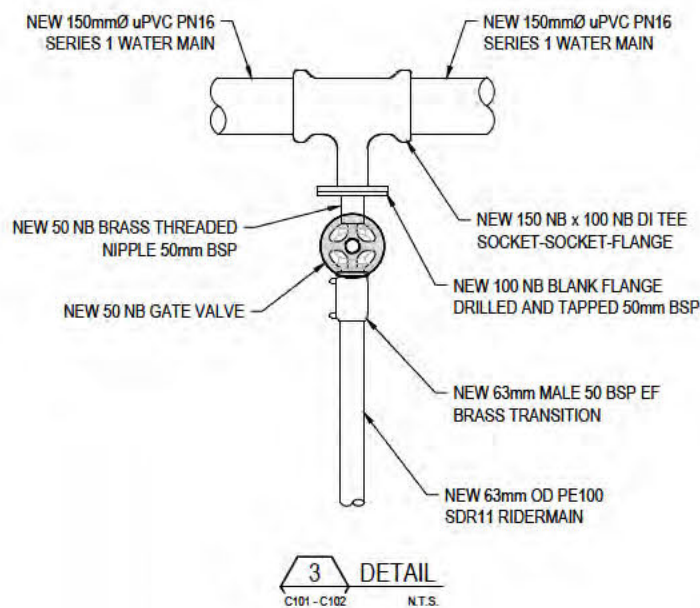
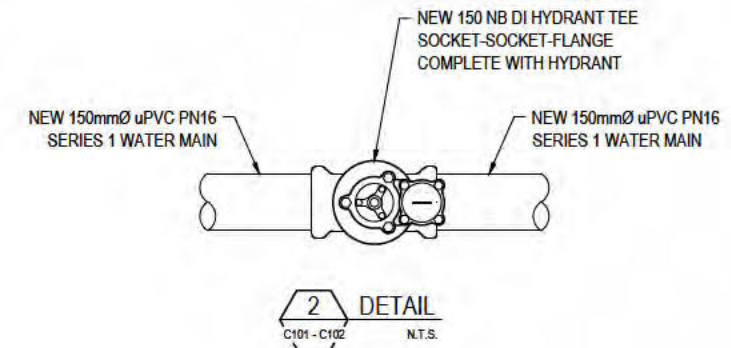
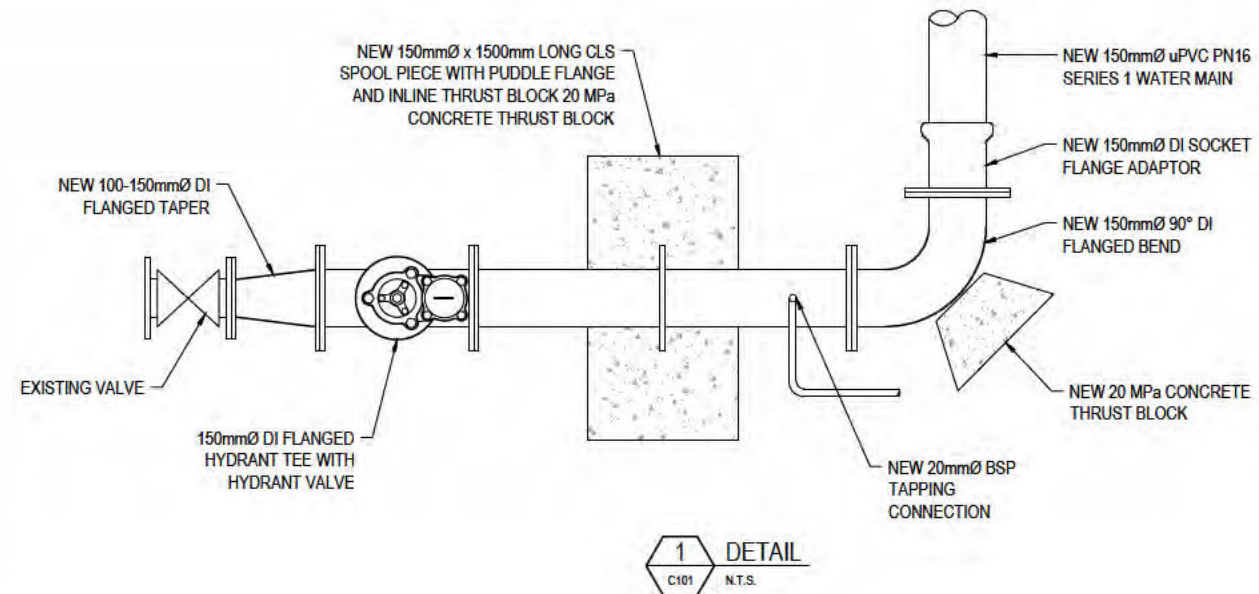
Title: **SERVICE PLAN SHEET 2 OF 4**

Discipline: **CIVIL**

Drawing No.: **12541327-C102**

Rev.: **C**

DETAILED DESIGN
NOT FOR CONSTRUCTION



A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE

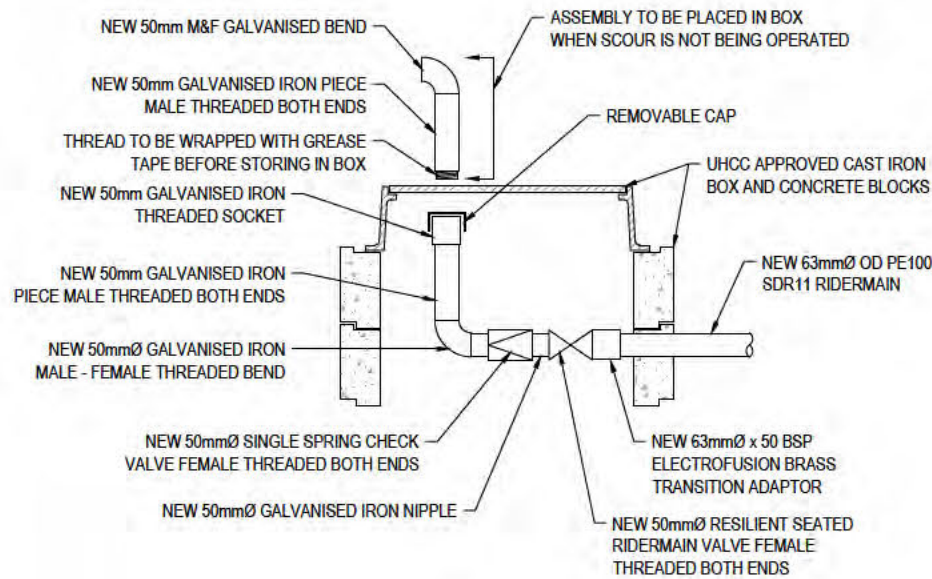
DETAILED DESIGN
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No.	Revision	By	Chk	Appd	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

	Drawing Checked by Level 1, Great Thornton House 215 Lambton Quay Wellington, New Zealand T 64 4 472 0799 F 64 4 472 0833 E enquiries@ghd.com W www.ghd.com	Original Scale (A1) N.T.S. Reduced Scale (A3) N.T.S.	Design 	12/20 12/20 03/21 04/21	Approved For Construction* Date
	Client: Wellington Water				
	Project: WATER REFORM RENEWALS ISLINGTON STREET				
	Title: CONNECTION DETAILS SHEET 3 OF 4				

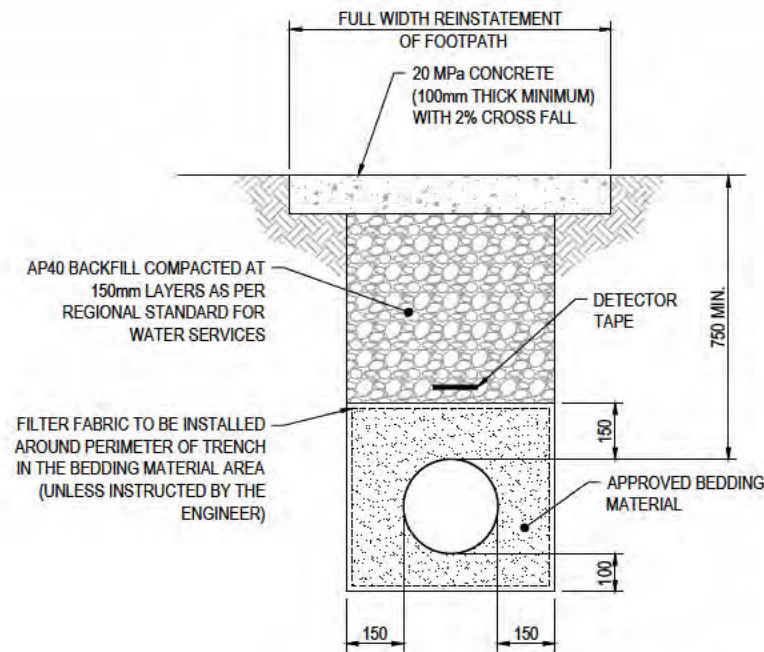
Discipline CIVIL	Drawing No. 12541327-C101-C104	Rev. C
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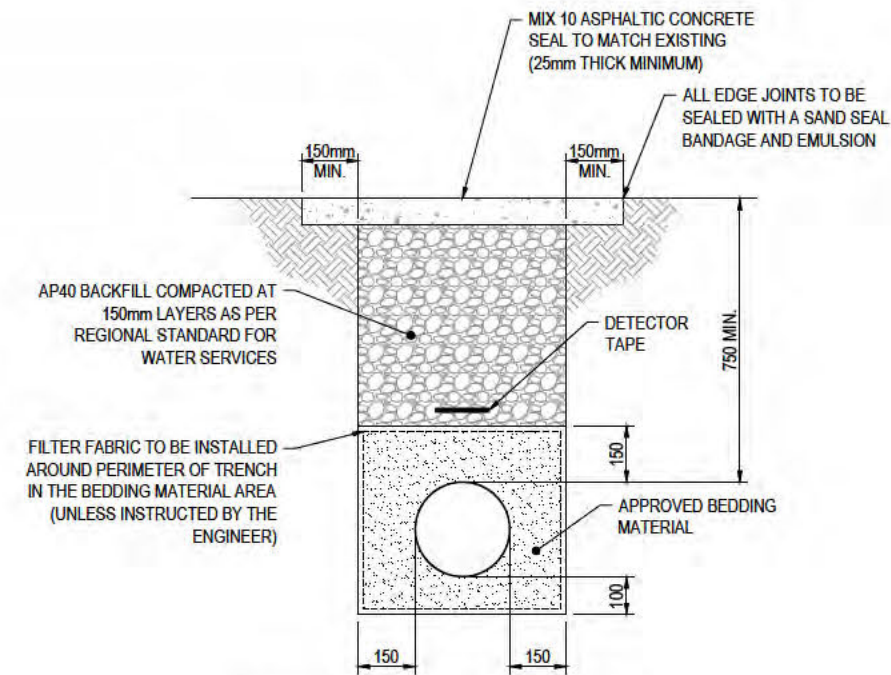


7
C102
DETAIL
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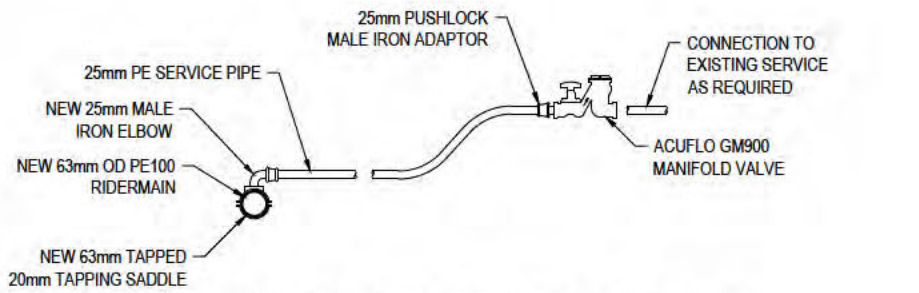
TYPICAL SCOUR VALVE DETAIL
(ELEVATION)
N.T.S.



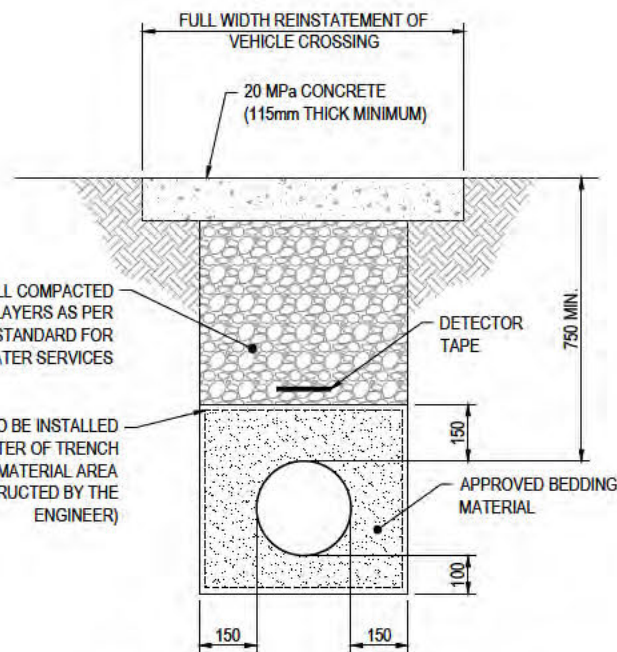
TYPICAL TRENCH DETAIL FOOTPATH
N.T.S.



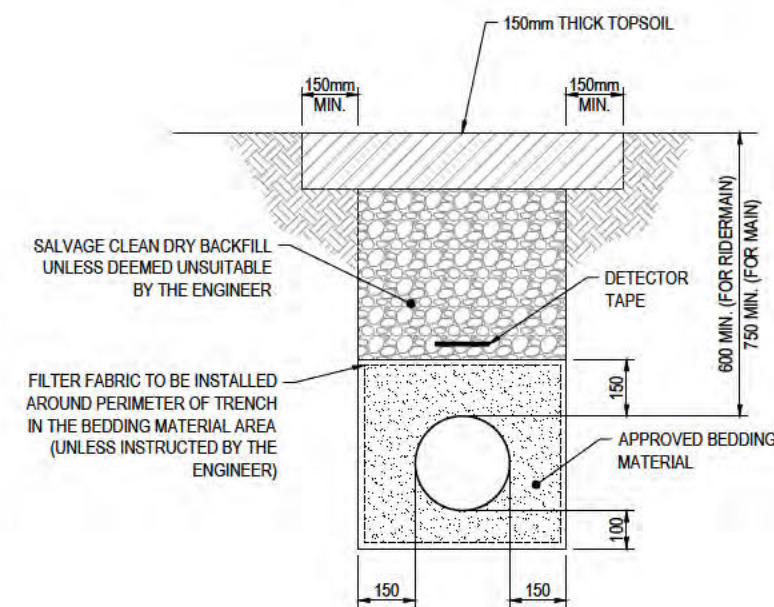
TYPICAL TRENCH DETAIL CARRIAGEWAY
N.T.S.



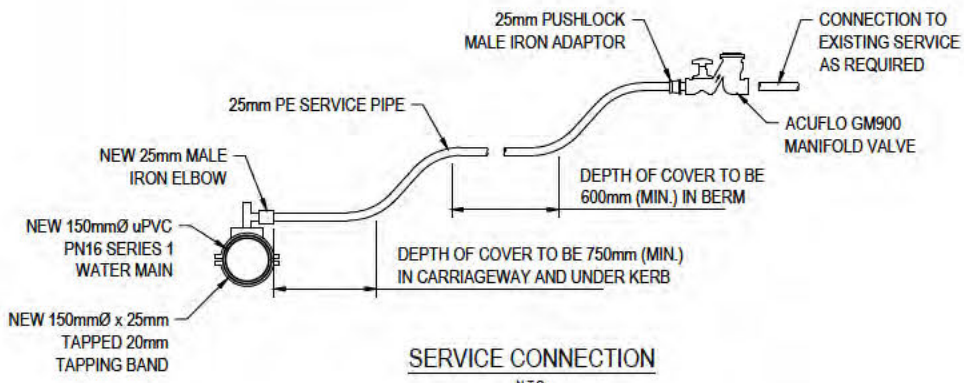
RIDERMAIN SERVICE CONNECTION (END VIEW)
N.T.S.



TYPICAL TRENCH DETAIL VEHICLE CROSSINGS
N.T.S.



TYPICAL TRENCH DETAIL BERM
N.T.S.



SERVICE CONNECTION
N.T.S.

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

No.	Revision	By	Chk.	Appd.	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

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 E info@ghd.com W www.ghd.com

Design: 12/20
 Drawn: 12/20
 Design Checker: 03/21
 Date: 04/21

Approved For Construction: [Signature]

Client: **Wellington Water**

Project: WATER REFORM RENEWALS
ISLINGTON STREET

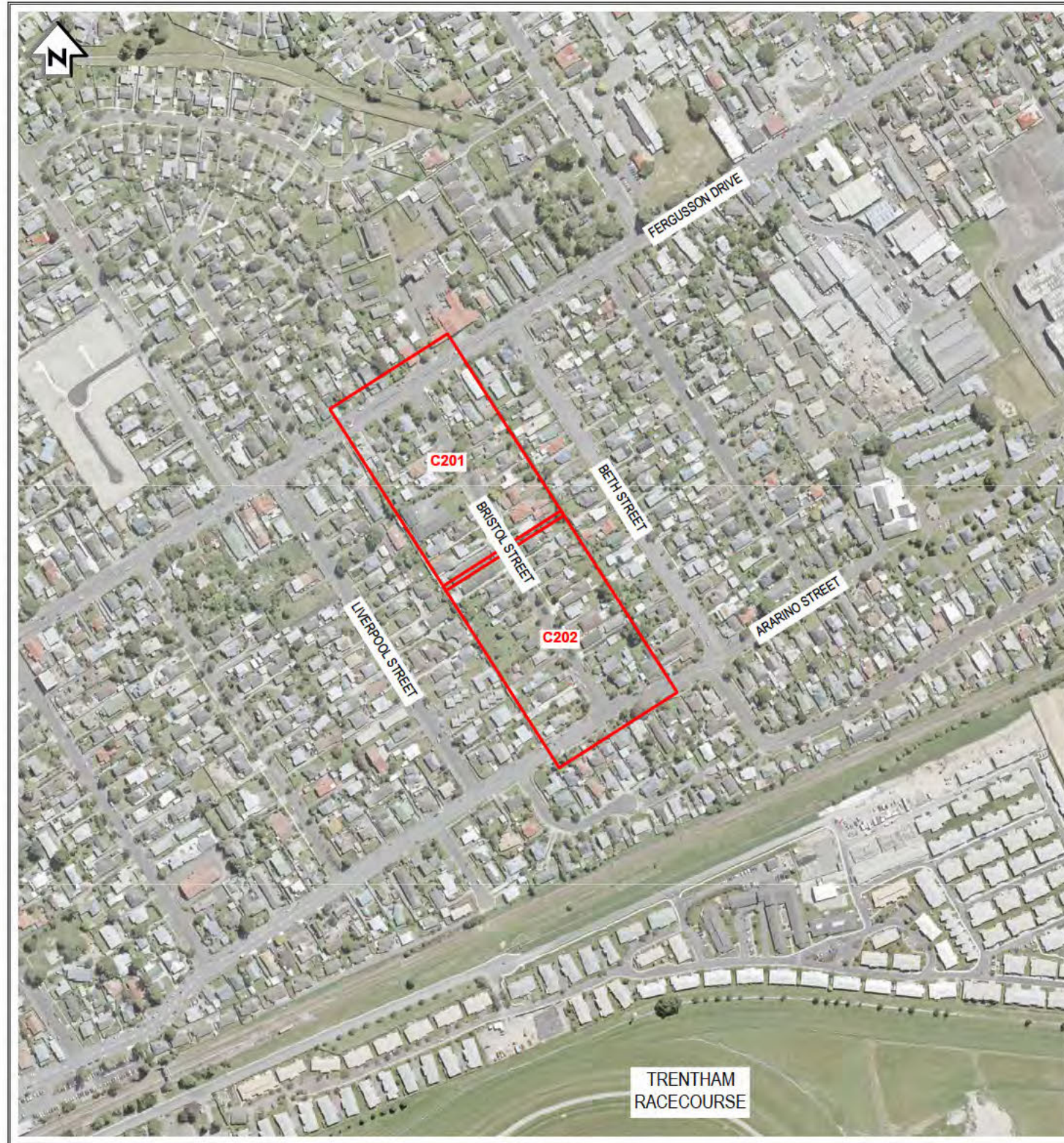
Title: STANDARD TRENCH DETAILS
SHEET 4 OF 4

Discipline: CIVIL
 Drawing No: 12541327-C104
 Rev: C

DETAILED DESIGN
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Document Path: N:\CIVIL\WELLINGTON\PROJECTS\12541327\CADD\DRAWING\SUPPLIER\HUTT\WATERISLINGTON STREET Document No: 12541327-C101-C104.DWG

WATER REFORM RENEWALS BRISTOL STREET



A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm

0 25 50 75 100 125m
SCALE 1:2500 AT ORIGINAL SIZE

LOCALITY PLAN
SCALE 1:2500

No.	Revision	By	Chk	Appd	Date
C	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21
B	ISSUED FOR DETAILED DESIGN	SS	KS	CW	04/03/21
A	PRELIMINARY	SS	KS	KS	22/12/20

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Original Scale (A1)
1:2500 @ A1
Design
12/20
Drawn
12/20
Design Checker
03/21
Date
Approved For Construction
04/21
Date

Wellington Water

Project: WATER REFORM RENEWALS
BRISTOL STREET

Title: DRAWING REGISTER, TRANSMITTAL
NOTICE AND LOCALITY PLAN

Discipline: CIVIL
 Drawing No.: 12541327-G001
 Rev: C

DRAWING REGISTER, DISTRIBUTION AND TRANSMITTAL

DISTRIBUTION		NUMBER OF COPIES					
your company	GHD LIMITED	1	1	1			
CLIENT	WELLINGTON WATER	1	1	1			
CONTRACTOR	-	-	-	-			
	DRAWING ISSUE STATUS OPTIONS: FOR INFORMATION ONLY FOR APPROVAL FOR TENDER ONLY NOT FOR CONSTRUCTION ISSUED FOR CONSTRUCTION AS BUILT (CONSTRUCTION RECORD)	ISSUE STATUS	PRELIMINARY	DETAILED DESIGN	DETAILED DESIGN	FOR TENDER	FOR CONSTRUCTION
			DRAWING PRINT SIZE: A3 A3 A3 A3 A3				
			ISSUE FORMAT: PDF PDF PDF PDF PDF				
			DD	22	04	01	
CAD FILE REFERENCE:	G:\51\12541327\CADD\Drawings		MM	12	03	04	
			YY	20	21	21	
DRAWING NUMBER	DRAWING TITLE						
12541327-G001	DRAWING REGISTER, TRANSMITTAL NOTICE AND LOCALITY PLAN		A	B	C		
12541327-G002	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 1 OF 3		-	-	A		
12541327-G003	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 2 OF 3		-	-	A		
12541327-G004	SAFETY IN DESIGN RISK ASSESSMENT - SHEET 3 OF 3		-	-	A		
12541327-G005	GENERAL NOTES		-	-	A		
12541327-C201	SERVICE PLAN - SHEET 1 OF 5		A	B	C		
12541327-C202	SERVICE PLAN - SHEET 2 OF 5		A	B	C		
12541327-C203	CONNECTION DETAILS - SHEET 3 OF 5		A	B	C		
12541327-C204	CONNECTION DETAILS - SHEET 4 OF 5		A	B	C		
12541327-C205	STANDARD TRENCH DETAILS - SHEET 5 OF 5		A	B	C		

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**DETAILED DESIGN
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Safety in Design H&S Risk Assessment

Administration

Project Name	Water Reform - Upper Hutt Water Renewals
Project No. (if applicable)	12541327

Assessment Date	16/12/2020	Asset Type	Water - Pipe	Location / Site Name	Upper Hutt
Designer	[Redacted]	SID Process Step	Review H&S Risk Assessment (Step IV)		



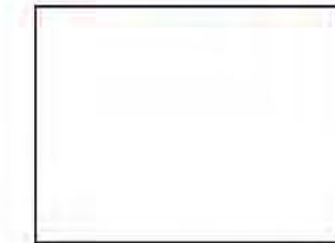
Safety in Design Process Decisions

Opex: Technical Input Required? (Step III)	Yes
Design Meeting Required? (Step V)	Yes
Record decision reasoning for Step V:	Part of the agreed process for the Water reform projects
More Detailed Assessment (e.g. Hazop) Required? (Step VIII)	No
Record decision reasoning for Step VIII:	Not considered necessary for the standard renewal project

Safety in Design Stakeholders

Name	7(2)(a)	Role	Project Manager
Name	[Redacted]	Role	Designer
Name	[Redacted]	Role	Investigator
Name	[Redacted]	Role	Operator
Name	[Redacted]	Role	Investigator
Name	[Redacted]	Role	Contractor
Name	[Redacted]	Role	Contractor
Name	[Redacted]	Role	Project Manager
Name	[Redacted]	Role	Investigator
Name		Role	
Name		Role	
Name		Role	
Name		Role	

Supporting documentation



If additional stakeholders are required, select the row above and insert new row. Record Name and Role as per Safety in Design Process.

Raw risk					Risk management									
Specific Asset Reference (if applicable)	Risk Source (Hazard)	Risk Description	ISM Consequences	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Risk Owner
N/A	Underground Utilities - underground power cables	Striking underground electrical services during trenching - Severe injury or death by electrocution	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	The proposed renewal alignment will consider existing power cables and create clear distances from this service. Power cables to be displayed on engineering drawings provided to contractor. Potholing exercise to confirm location and depth of cables prior to undertaking any form of open-trench or trenchless installation methodologies. Standover by relevant service provider suggested.	Need to work around existing services in order to complete the project	Designer	Substantial 100	Unlikely 3	High 300	Designer
N/A	Underground Utilities - gas, Vodafone, telcom, stormwater, water, sewer	Striking underground services during trenching - Severe injury or death by out-gassing from main - Severe injury or death by ignition of leaking gas - Asphyxiation due to leaking gas into the trench - Construction adjacent to or crossing other services - Striking underground sewer mains during trenching - Health risk due to exposure to raw sewage - Drowning when trench engulfed by sewage	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Design with minimum clearances to other services - Existing services information shown on drawing and note for contractor to confirm location of services prior to construction - Contractor to address in site specific health and safety plan and complete service markout and pothole ahead of pipe laying - services to be potholed as needed. Potholing exercise to confirm location and depth of services prior to undertaking any form of open-trench or trenchless installation methodologies. Contractor suggested to arrange standover by relevant service provider during excavations.	Existing services are installed throughout the road corridor and property boundaries. Any alignment will likely encounter cables meaning the risk can not be eliminated	Contractor	Substantial 100	Unlikely 3	High 300	Contractor
N/A	Overhead Utilities	Electrocution from contacting overhead power lines or bus cables	Substantial 100	Possible 4	Extreme 400	Minimise	1. Engineering Control	- Check clearance to overhead power lines bus cables and prior to work in the vicinity and obtain close approach permit - Contractor to use experienced plant operators when in vicinity of overhead power lines - Contractor to use spotters - Contractor to use small excavator where practical - Bunting suggested as a visual warning of hazard	Overhead wires are present throughout the streets being renewed. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Substantial 100	Unlikely 3	High 300	Contractor

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE

No.	Revision	By	Chk	Appd	Date
A	ISSUED FOR DETAILED DESIGN	SS	KS	CW	01/04/21

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Original Scale (A1)	N.T.S.	Design	12/20	Approved For Construction	
Reduced Scale (A3)	N.T.S.	Drawn	12/20	Date	
		Design Checker	03/21		
		Drawn	04/21		

* Refer to Revision 1 for Original Signature



Client: **Wellington Water**
 Project: **WATER REFORM RENEWALS BRISTOL STREET**

Title: **SAFETY IN DESIGN RISK ASSESSMENT SHEET 1 OF 3**

Discipline	CIVIL
Drawing No.	51-12541327-G002
Rev.	A

DETAILED DESIGN NOT FOR CONSTRUCTION

Document Path: N:\NEWELLINGTON\PROJECTS\12541327\CAD\DRAWING\SUPPER HUTT WATER\BRISTOL STREET | Document No: 12541327-G002-G004.DWG

A3 REPRODUCTION SCALE
0mm
20
30
40
50
60
80
100

Specific Activity Reference (if applicable)	Risk Scenario (if applicable)	Risk Description	Raw Consequence	Frequency/Duration	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Frequency	Residual Risk Rating	Risk Owner
N/A	Traffic Or Pedestrian Movement	A traffic collision may result if not managed adequately	Substantial 100	Possible 4	Critical 400	Minimise	1. Isolate	Appropriate traffic management during project physical works. Appropriate fencing and warning signs will be used. Develop alignments that move new water mains out of the carriageway where possible. Move pedestrian safely to the other footpath as needed. Select renewals that avoid busy streets. Increased traffic volumes may be expected near the Bristol Motel on Bristol Street. Depending on events there may also be increased traffic at Trentham Masonic Centre on Islington Street. If works are required on Ferguson Drive there will be greatly increased traffic compared to other works areas.	Some renewal sections are within the carriageway. The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Major 70	Rare 1	Moderate 70	Contractor
N/A	Vehicles And Mobile Equipment	Death or injury may occur if workers or site staff are struck by vehicles or mobile equipment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Separate people from vehicles and mobile equipment SFAIRP. Drive in a forward direction if possible. Use a spotter where required. Ensure all site staff wear correct hi-vis PPE	Equipment and vehicles are necessary to carry out the renewals and could not be eliminated from site	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Working At Height or Raised and Falling Objects	Injury may occur as a consequence of workers falling into any trenches, or objects falling into the trench while workers are inside.	Major 70	Possible 4	High 280	Minimise	1. Engineering Control	Construct entry and exit points in trench. Store any loose materials away from trench wall. Secure any vehicles, equipment or materials that are required near the trench wall. Wear appropriate PPE.	The risks are inevitable when excavating for water main renewals, however these controls can minimise the risks	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Asbestos or Silica	Other services in the area may be made from asbestos cement	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Locate all other services before commencing work. Complete design as a new off-line renewal and leaving the existing AC in the ground. Limit the cutting of existing AC to the minimum required to complete the project. Any cutting and removal of asbestos pipe to be carried out by appropriately trained and qualified personnel using PPE in accordance with Worksafe requirements	The risk is inherent in the work, but can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Project Manager
N/A	Work Environment (Housekeeping)	Injury may occur as a consequence of an untidy site. Aspects include layout, space, lighting, ventilation, uneven/slippery surfaces or obstacles in the environment.	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Contractor to minimise plant and materials on site and keep the site tidy at all times. All steel plates to be non slip.	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minor 10	Highly Unlikely 2	Low 20	Contractor
N/A	Services - Water Main	Works around the water main could lead to bursting of the water main, creating an impact hazard as well as a water hazard in the area	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Ensure all water mains are correctly installed in accordance with the design. All workers to stand out of trenches and clear of the new pipeline during commissioning	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Falling objects - above ground	Risk of undermined trees or power poles collapsing and	Major 70	Possible 4	High 280	Minimise	2. Administration Control	Design clear of power poles and trees. Temporary support of trees and power poles as needed	The risk exists at construction sites, however it can be minimised by applying these controls	Contractor	Minimal 1	Rare 1	Low 1	Contractor
N/A	Services - Working With Or Near	Death and/or injuries may occur if power or gas services are struck during construction.	Moderate 40	Likely 5	High 200	Minimise	1. Isolate	Lay new pipes with clear of power and gas services. Implement Worksafe practices for working around services in accordance with the Guide for Safety with Underground Services. Ensure services are located, marked out and potholed. Comply with offset requirements for overhead services. Stand overs and close work permits to be arranged where necessary	Excavation is required to renew water sections with the associated manholes and connections. The location of power and gas services could be inaccurate and will still require locating and potholing.	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor
N/A	Noise	Construction noise occurs resulting in temporary or permanent hearing damage. No work to be undertaken with actual anticipated noise levels of 140 dBA or more. Quieter alternatives must be arranged to reduce sound emitted at source.	Moderate 40	Likely 5	High 200	Minimise	2. Administration Control	Consider use of noise shields. High noise activities shall be limited where possible on site and avoided when public or workers not involved with the activity are near. Hearing protection shall be worn as required	Construction noise is unavoidable, however exposure can be managed easily and safely through application of administration controls and the use of appropriate PPE. No engineering controls are known to exist today.	Contractor	Minimal 1	Highly Unlikely 2	Low 2	Contractor
N/A	Excavation	Collapse of excavation. Where specific H&S risks associated with particular excavations exist, these are assessed individually	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Where applicable, trenchless installation technologies will significantly reduce this risk Sections requiring excavation will comply with Wellington Water's requirements and the Excavation Safety Good Practice Guideline. Do not surcharge through trench sides without specifically designed shoring in place	Some degree of excavation is required regardless of pipe laying methodology	Contractor	Major 70	Highly Unlikely 2	Moderate 140	Contractor

No.	Revision	By	Chk.	Appd.	Date
A	ISSUED FOR DETAILED DESIGN	SS	BC	CW	12/2020

7(2)(a)

	Drawing Date/Issue Level 1, Great Thomson House 215 Lambton Quay Wellington, New Zealand T 64 4 472 0799 F 64 4 472 0633 E engineering@ghd.com W www.ghd.com	Original Scale (A1) N.T.S. Reduced Scale (A3) N.T.S. *Refer to Revision 1 for Original Signature	Design 12/20 Drawn 12/20 Ckg Verifier 03/21 Ckg Check 04/21 Date	Approved For Construction 12/20 Date
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Client: **Wellington Water**
 Project: **WATER REFORM RENEWALS BRISTOL STREET**

Title: **SAFETY IN DESIGN RISK ASSESSMENT SHEET 2 OF 3**

Discipline	CIVIL
Drawing No.	51-12541327-G003
Rev.	A

**DETAILED DESIGN
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Specific Asset Reference (if available)	Risk Source (Hazard)	Risk Description	Raw Consequence	Raw Likelihood	Raw Risk Rating	Control Measure	Control Type	Control Description	Control Justification (if not eliminated)	Control Owner	Residual Consequence	Residual Likelihood	Residual Risk Rating	Responsible Party
N/A	Tools And Equipment (Powered Or Hand)	Improper use of a tool may result in an injury to a worker	Moderate 40	Possible 4	Moderate 160	Minimise	2. Administration Control	Tools and equipment shall only be used by trained users, and programmed checks on tools shall be completed to ensure they are working safely. Follow recommended Wellington Water, Worksafe and Industry practices and use appropriate PPE	Tools are required to complete the works, however the risk of injury can be minimised by applying these controls	Contractor	Moderate 40	Unlikely 3	Moderate 120	Contractor
N/A	Manual Handling Or Body Stress	A worker may incur a manual handling injury during the course of construction when moving or using materials and/or tools or doing repetitive work.	Moderate 40	Possible 4	Moderate 160	Minimise	1. Engineering Control	Use plant to lift heavy items where possible. Where plant cannot be used, use correct manual handling procedures in accordance with the CoP for Manual Handling and use appropriate PPE	Manual handling is unavoidable, however the risk of injury can be minimised by applying these controls	Contractor	Minor 10	Possible 4	Low 40	Contractor
N/A	Disposal of materials during decommissioning	Disposal of hazardous materials during the decommissioning of the proposed works.	Moderate 40	Unlikely 3	Moderate 120	Minimise	1. Engineering Control	Where possible, avoid the use of hazardous materials. Comply with Materials Safety Data Sheets. Follow recommended safety practices and use appropriate PPE. Less hazardous approved substances to be used where possible	The risk is inherent in the work, but can be minimised by applying these controls	Maintainer	Moderate 40	Unlikely 3	Moderate 120	Maintainer
N/A	Natural Events	Natural events such as earthquakes or extreme winds may occur in the Wellington Region.	Substantial 100	Rare 1	Moderate 100	Minimise	2. Administration Control	No work to be performed on site when winds exceed guideline thresholds. Take appropriate action during earthquakes (drop, cover, hold), then evacuate site.	These risks are inherent to working in the Wellington region, however these steps may be able to reduce the risk consequence	Contractor	Substantial 100	Rare 1	Moderate 100	Contractor

A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk.	Appd.	Date
A	ISSUED FOR DETAILED DESIGN	SS	BC	CW	12/2020

	Drawing Originator	Original Scale (A1)	Design	12/20	Approved For Construction
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		Reduced Scale (A3)	Design Verifier	03/21	
		N.T.S.	Design Check	04/21	Date

	Client	Project
	WATER REFORM RENEWALS	BRISTOL STREET

Title	Discipline
SAFETY IN DESIGN RISK ASSESSMENT SHEET 3 OF 3	CIVIL
Drawing No.	Rev.
51-12541327-G004	A

7(2)(a)

GENERAL NOTES

- PIPES, CABLES AND OTHER UTILITIES, FOUNDATIONS, LEVELS, REFERENCE MARKS AND OTHER OBSTRUCTIONS INDICATED ON THIS DRAWING ARE BASED ONLY ON READILY AVAILABLE RECORD PLANS AND OTHER INFORMATION. THIS INFORMATION MAY NOT BE COMPLETE, ACCURATE OR UP TO DATE PRIOR TO CARRYING OUT ANY EXCAVATION OR OTHER PHYSICAL WORK. CONTRACTORS SHALL OBTAIN THE LATEST INFORMATION FROM UTILITY PROVIDERS AND CARRY OUT DETAILED EXPLORATORY WORK, TRACING, LOCATING, PROTECTION, ISOLATION AND ALTERATIONS AS REQUIRED UNDER NZS 3910 CLAUSE 5.13. CONTRACTOR MUST FOLLOW OSH GUIDELINES FOR SAFE LOCATION OF UNDERGROUND SERVICES.
- RESIDENTS SHALL BE ADEQUATELY NOTIFIED PRIOR TO WORKS COMMENCING, AND 24 HOURS PRIOR TO DISRUPTION OF SERVICE.
- ALL CARE MUST BE TAKEN BY THE CONTRACTOR NOT TO DAMAGE PRIVATE PROPERTY, OR ANY GARDENED AREA OTHER THAN THOSE NECESSARY AS PART OF THE WORKS.
- ALL WORKS ARE TO BE CONSTRUCTED USING BEST TRADE PRACTICES.
- APPROVAL MUST BE SOUGHT FROM THE ENGINEER PRIOR TO REMOVAL OF ANY FIXTURE (I.E. FENCE, TREE) IN PRIVATE PROPERTY.
- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL CODE OF PRACTICE FOR UTILITIES ACCESS TO TRANSPORT CORRIDORS HUTT VALLEY LOCAL CONDITIONS APRIL 2011, NATIONAL CODE OF PRACTICE FOR UTILITIES ACCESS TO THE TRANSPORT CORRIDOR NOVEMBER 2011 REGIONAL STANDARD FOR WATER SERVICES NOVEMBER 2012 CAPACITY, WELLINGTON WATER APPROVED MATERIALS REGISTER 2014 AND MANUFACTURER'S SPECIFICATIONS.

WATER NOTES

- THE CONTRACTOR TO CHECK INVERT LEVELS OF EXISTING AND PROPOSED SYSTEM AND ADVISE ENGINEER OF ANY ANOMALIES PRIOR TO COMMENCING PIPE LAYING.
- WATER MAIN IS TO BE SCOURED TO REMOVE ALL DEBRIS BEFORE COMMISSIONING TESTING AND SERVICES ARE CONNECTED TO HOUSES.
- MINIMUM COVER OF 750mm AT ALL PLACES MEASURED FROM THE GROUND SURFACE. MAXIMUM COVER TO BE 1350mm.
- CONCRETE THRUST BLOCKS TO BE CONSTRUCTED ON ALL BENDS, TAPERS, TEES AND DEAD ENDS, CONCRETE TO BE 20 MPa, THRUST BLOCKS TO BE CONSTRUCTED TO MAINTAIN ACCESS TO THE BOLTS, ADJACENT JOINTS / FLANGES AND FITTINGS. CONCRETE THRUST BLOCKS TO BE SIZED AS PER REGIONAL STANDARD FOR WATER SERVICES (JULY 2016).
- ALL BACKFILL MATERIAL SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm IN LOOSE DEPTH.
- THE CONTRACTOR SHALL CARRY OUT SCALA PENETROMETER TESTING AT NOT MORE THAN 5m DISTANCES ALONG TRENCH, THE RESULTS MUST BE RECORDED AND MADE AVAILABLE TO THE ENGINEER. A COMPACTION OF NOT LESS THAN 7 BLOWS / 50mm, 4 BLOWS / 50mm AND 2 BLOWS / 50mm IN CARRIAGEWAYS, FOOTPATHS AND BERMS RESPECTIVELY MUST BE ACHIEVED.
- DETECTOR TAPE MUST BE LAID ABOVE ALL WATER PIPES IN ACCORDANCE WITH REGIONAL STANDARDS FOR WATER SERVICES.
- CONTRACTOR TO REMOVE ABANDONED VALVES AND HYDRANTS. NOTE ALL REINSTATEMENT IS TO COMPLY WITH NATIONAL CODE OF PRACTICE FOR UTILITY OPERATOR'S ACCESS TO TRANSPORT CORRIDORS.
- LOCATION AND REQUIREMENTS FOR BENDS SHOWN ARE INDICATIVE. CONTRACTOR TO CONFIRM SPECIFIC LOCATIONS AND REQUIREMENTS WITH ENGINEER ON SITE.
- SERVICE CONNECTION LOCATIONS ARE INDICATIVE ONLY, SERVICE PIPES SHALL BE LAID PERPENDICULAR TO THE MAIN. ALL SERVICE PIPES SHALL BE EXTENDED TO THE NEW MAIN.

UNDERGROUND GAS PIPES

**MACHINE DIGGING
STRATEGIC INTERMEDIATE PRESSURE (FEEDER MAIN OPERATING AT PRESSURES GREATER THAN 700 KPa (100 psi) AND MEDIUM PRESSURE GAS PIPES)**

(A) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 1.0m FROM ANY STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS MAINS OR SERVICES. ANY EXCAVATION WORK WITHIN THE DISTANCE MUST BE PERFORMED BY HAND DIGGING AND UNDER THE OBSERVATION OF A POWERCO APPROVED WORKS PROTECTION OBSERVER INCLUDING THE BACKFILLING OPERATION.

(B) PLEASE REFER TO THE POWERCO STANDARD "EXCAVATION WORKS IN THE VICINITY OF STRATEGIC CABLES AND PIPES" BEFORE COMMENCING EXCAVATION WORK IN THE VICINITY OF STRATEGIC GAS PIPES.

MEDIUM AND LOW PRESSURE GAS PIPES

(C) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 500mm FROM ANY MEDIUM OR LOW PRESSURE GAS MAIN OR SERVICE UNLESS THE POSITION OF THE PIPES HAS BEEN VERIFIED BY HAND DIGGING AND EXPOSING THEM FIRST.

NOTIFICATION OF WORK NEAR STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS PIPES

(A) AT LEAST 2 WORKING DAYS NOTICE MUST BE GIVEN TO POWERCO PRIOR TO ANY EXCAVATION WORK TAKING PLACE.

(B) IT IS THE EXCAVATION CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWERCO HELP DESK ON 0800 769 372 FOR THE ABOVE NOTIFICATION.

(C) THE EXCAVATION CONTRACTOR WILL BE ISSUED WITH A WORKS AGREEMENT WHICH MUST BE COMPLETED AND SIGNED PRIOR TO ANY EXCAVATION WORK TAKING PLACE NEAR ANY STRATEGIC INTERMEDIATE PRESSURE OR MEDIUM PRESSURE GAS PIPES.

LOCATION OF OTHERS SERVICES

(A) INTERMEDIATE PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 300mm FROM ANY INTERMEDIATE PRESSURE GAS PIPE.

(B) LOW OR MEDIUM PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 150mm FROM ANY LOW OR MEDIUM PRESSURE GAS PIPE.

UNDERGROUND POWER

AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. HAND DIGGING IS REQUIRED WHEN EXCAVATING WITHIN 1m OF CABLE. REPLACEMENT TRENCH BACKFILL MATERIAL MUST BE THE SAME AS THAT REMOVED AND MUST BE REPLACED TO THE SAME LEVEL OF COMPACTION.

UNDERGROUND TELECOM

ONSITE CABLE LOCATE OR STANDOVER IS REQUIRED IF WORKING WITHIN 1m OF THESE CABLES. AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. FOR LOCATE AND STANDOVER CONTACT 0800 248 344.

A3 REPRODUCTION SCALE
100
80
60
40
20
0mm
50
40
30
20
10
0mm

7(2)(a)

No.	Revision	By	Chk.	Appd.	Date
A	ISSUED FOR DETAILED DESIGN	SS	KS	CB	01/04/21

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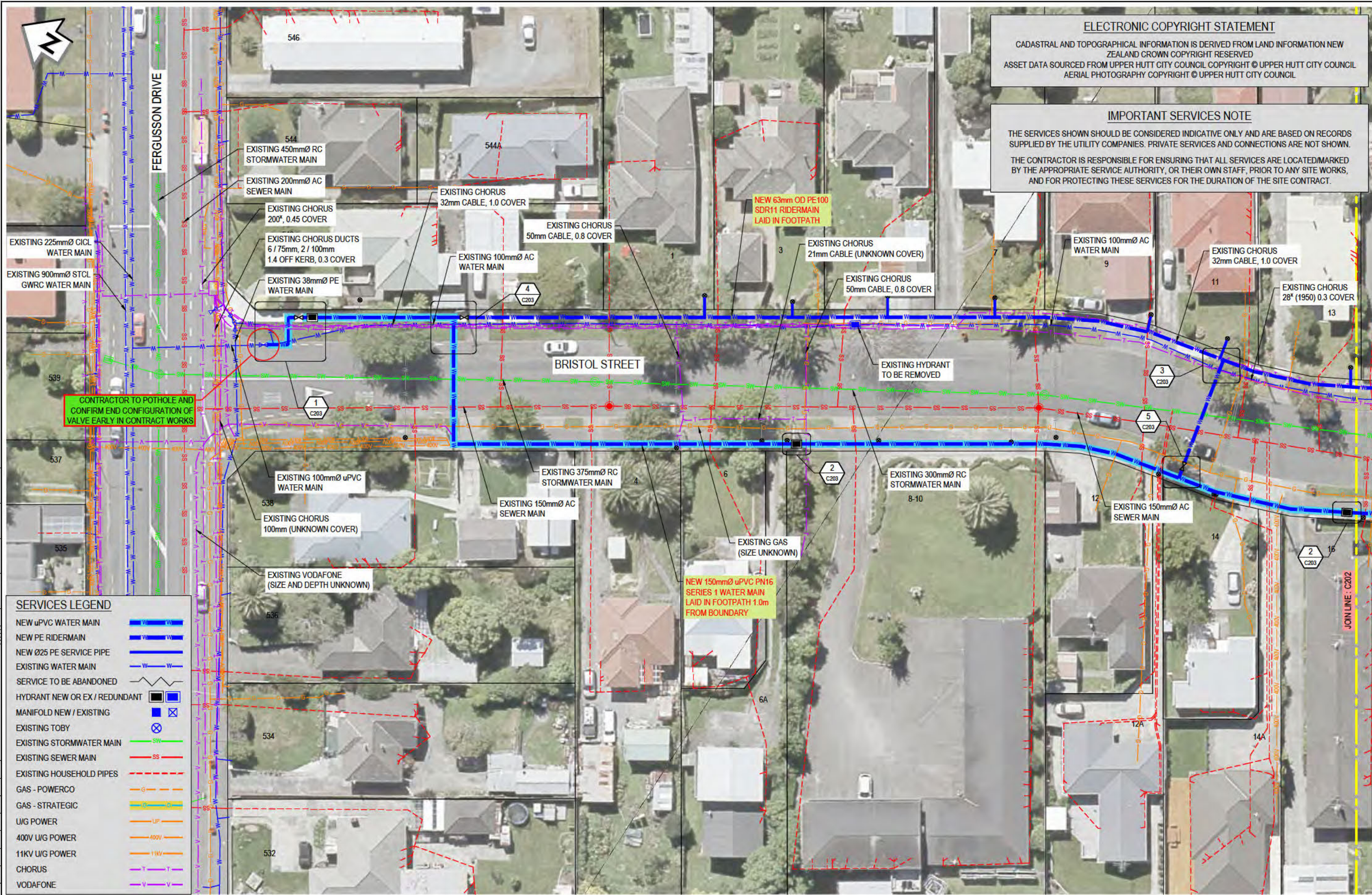
Client:	Wellington Water
Project:	WATER REFORM RENEWALS BRISTOL STREET

Title:	GENERAL NOTES
Discipline:	CIVIL
Drawing No.:	12541327-G005
Rev.:	A

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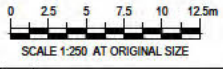
CONTRACTOR TO POTHOLE AND CONFIRM END CONFIGURATION OF VALVE EARLY IN CONTRACT WORKS

NEW 150mmØ uPVC PN16 SERIES 1 WATER MAIN LAID IN FOOTPATH 1.0m FROM BOUNDARY

NEW 63mm OD PE100 SDR11 RIDERMAIN LAID IN FOOTPATH

SERVICES LEGEND

NEW uPVC WATER MAIN	
NEW PE RIDERMAIN	
NEW Ø25 PE SERVICE PIPE	
EXISTING WATER MAIN	
SERVICE TO BE ABANDONED	
HYDRANT NEW OR EX / REDUNDANT	
MANIFOLD NEW / EXISTING	
EXISTING TOBY	
EXISTING STORMWATER MAIN	
EXISTING SEWER MAIN	
EXISTING HOUSEHOLD PIPES	
GAS - POWERCO	
GAS - STRATEGIC	
U/G POWER	
400V U/G POWER	
11KV U/G POWER	
CHORUS	
VODAFONE	



No.	Revision	By	Chk	Appd	Date
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 Design: 12/20
 Drawn: 12/20
 Dwg Verifier: 03/21
 Dwg Check: 04/21
 Scale (A3): 1/2 SHOWN
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Wellington Water

Project: WATER REFORM RENEWALS
 BRISTOL STREET

Title: SERVICE PLAN
 SHEET 1 OF 5

Discipline:	CIVIL
Drawing No.:	12541327-C201
Rev.:	C

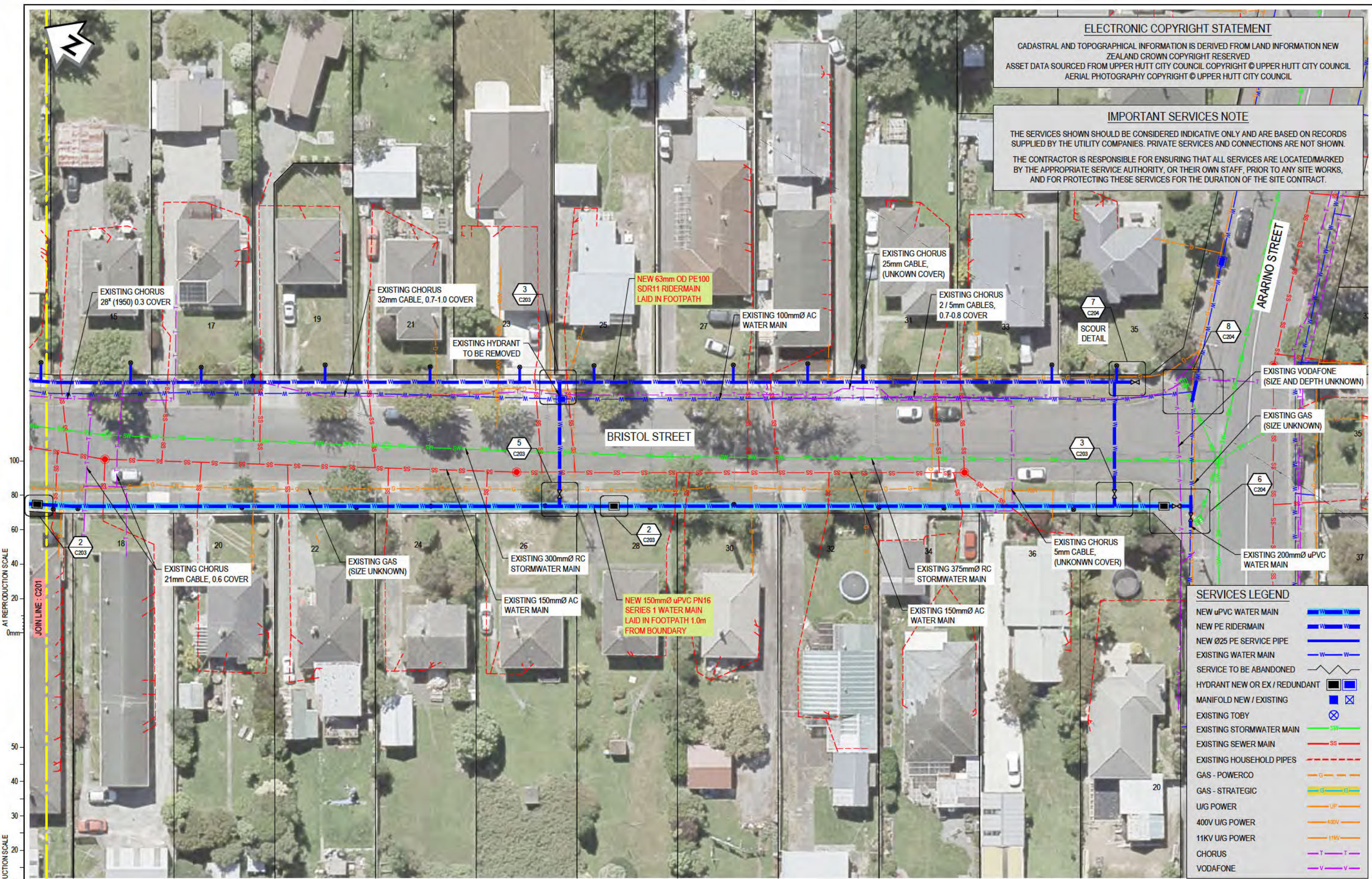
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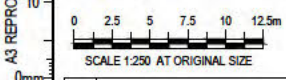
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SERVICES LEGEND

NEW uPVC WATER MAIN	
NEW PE RIDERMAIN	
NEW Ø25 PE SERVICE PIPE	
EXISTING WATER MAIN	
SERVICE TO BE ABANDONED	
HYDRANT NEW OR EX / REDUNDANT	
MANIFOLD NEW / EXISTING	
EXISTING TOBY	
EXISTING STORMWATER MAIN	
EXISTING SEWER MAIN	
EXISTING HOUSEHOLD PIPES	
GAS - POWERCO	
GAS - STRATEGIC	
U/G POWER	
400V U/G POWER	
11KV U/G POWER	
CHORUS	
VODAFONE	



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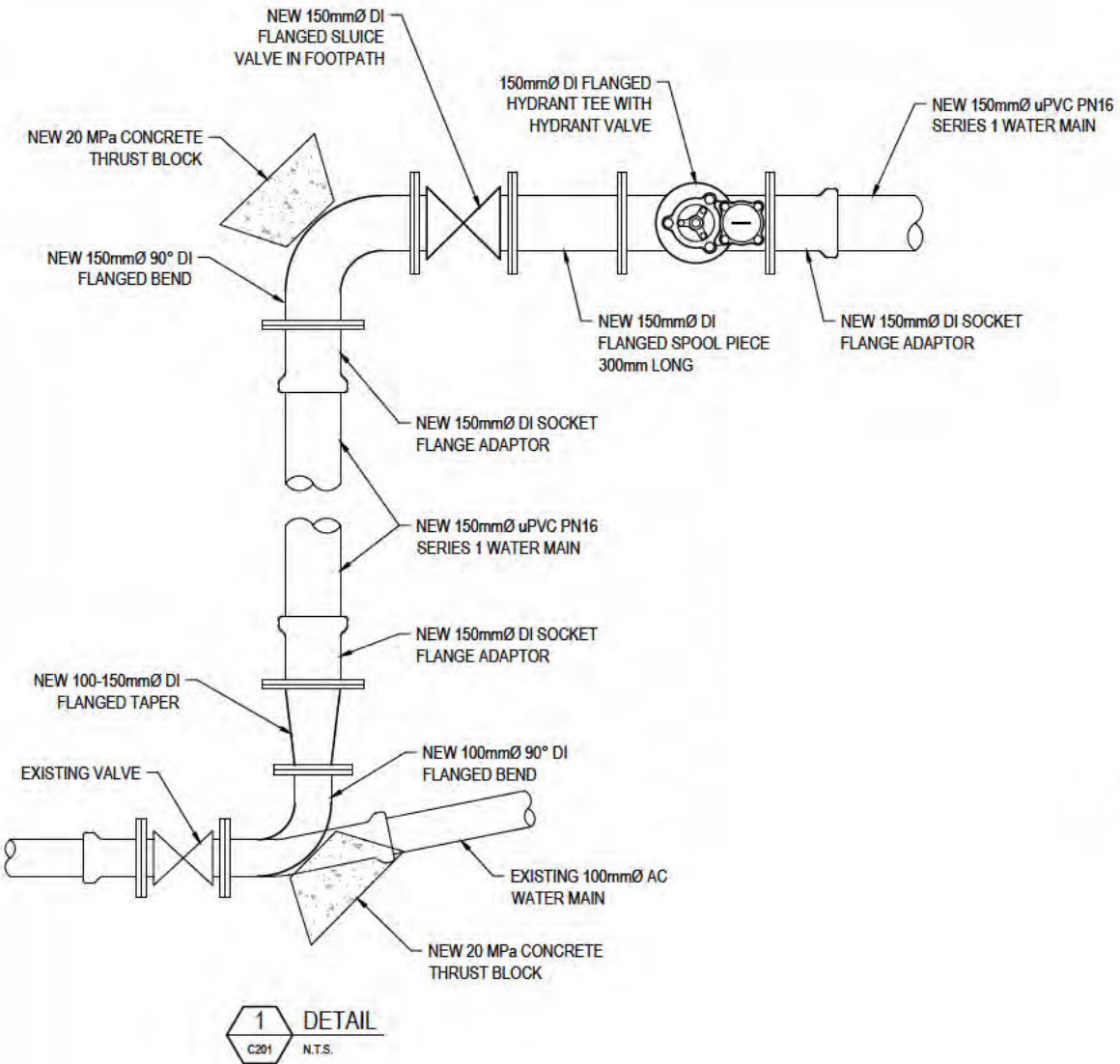
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 Project: WATER REFORM RENEWALS
 BRISTOL STREET

Title: SERVICE PLAN
 SHEET 2 OF 5

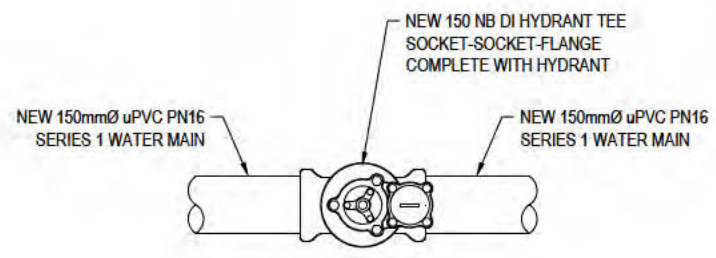
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Drawing No.:	12541327-C202
Rev.:	C

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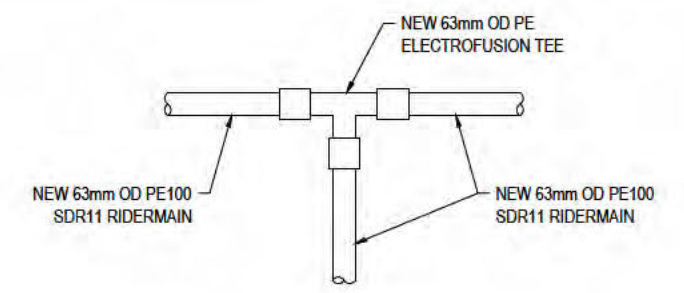
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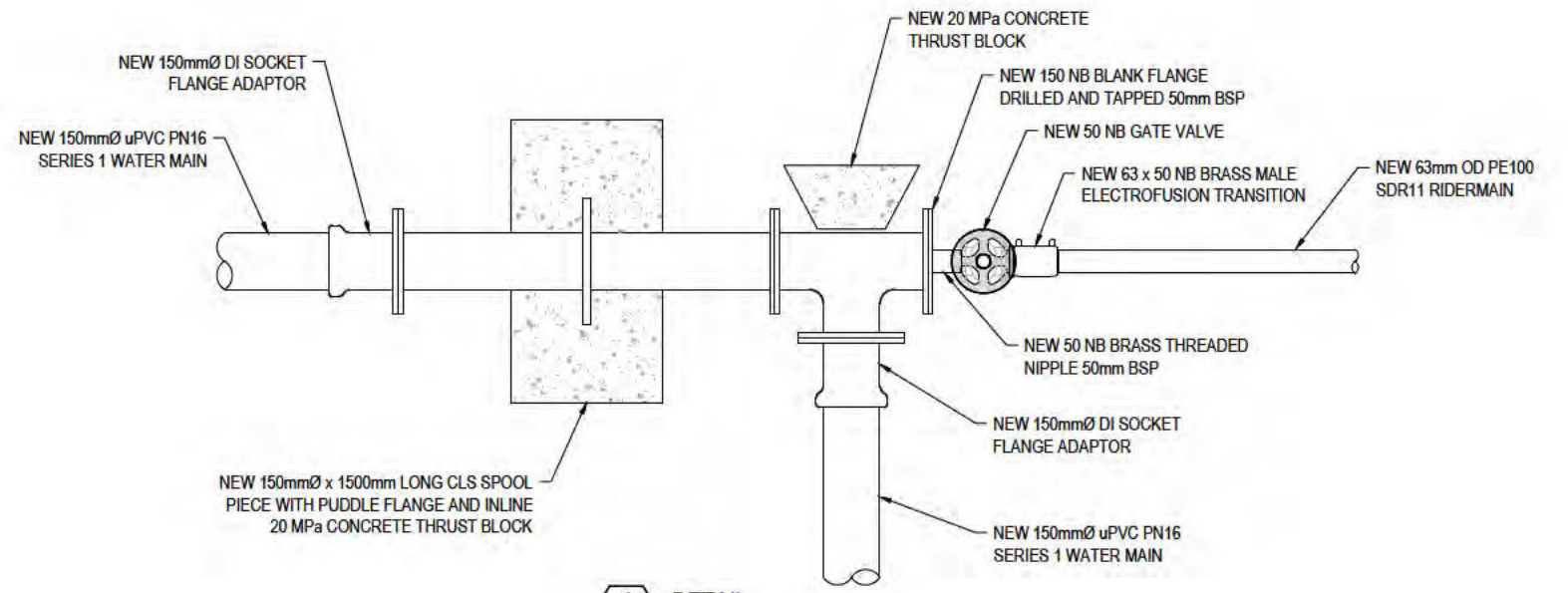
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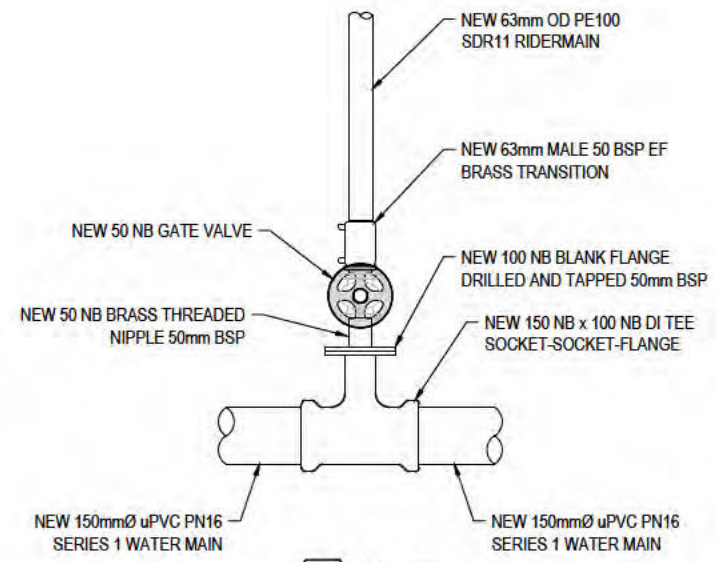
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C201 - C202 N.T.S.



3 DETAIL
C201 - C202 N.T.S.



4 DETAIL
C201 N.T.S.



5 DETAIL
C201 - C202 N.T.S.

7(2)(a)

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Original Scale (A1)	Design	Drawn	Design	Checked	Approved For Construction*
N.T.S.	12/20	12/20	03/21	04/21	Date

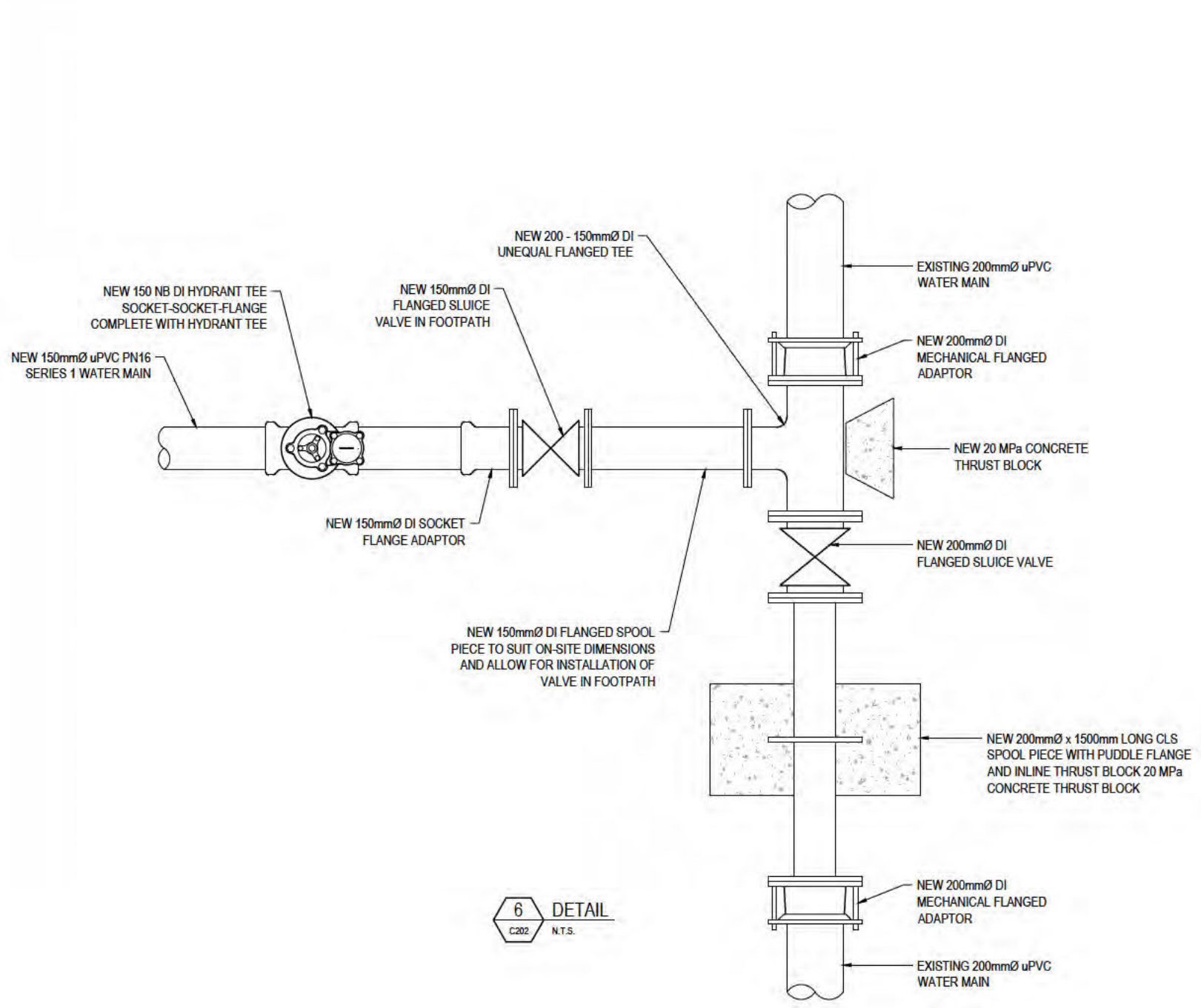
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 Project: WATER REFORM RENEWALS BRISTOL STREET

Title: CONNECTION DETAILS SHEET 3 OF 5

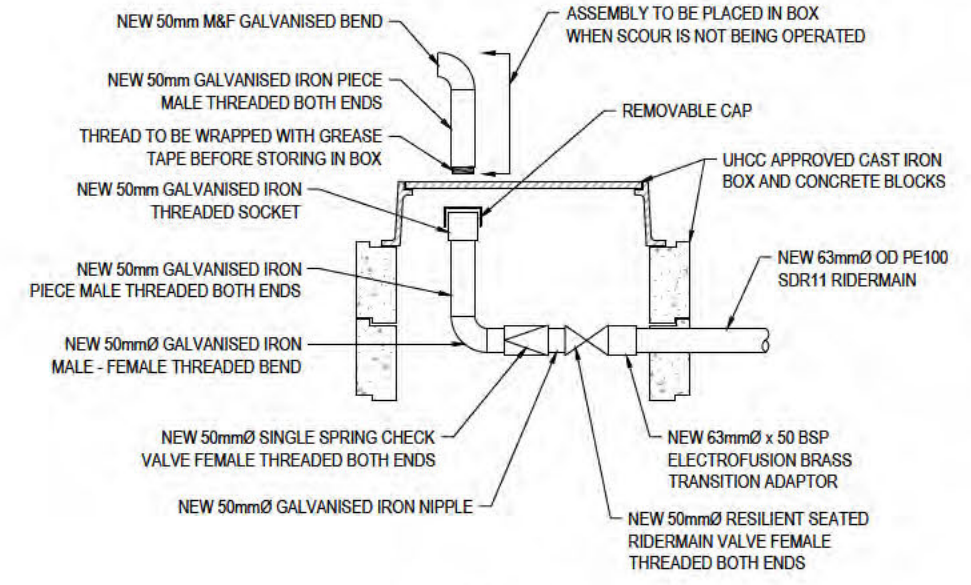
Discipline	Rev.
CIVIL	C
Drawing No.	12541327-C203

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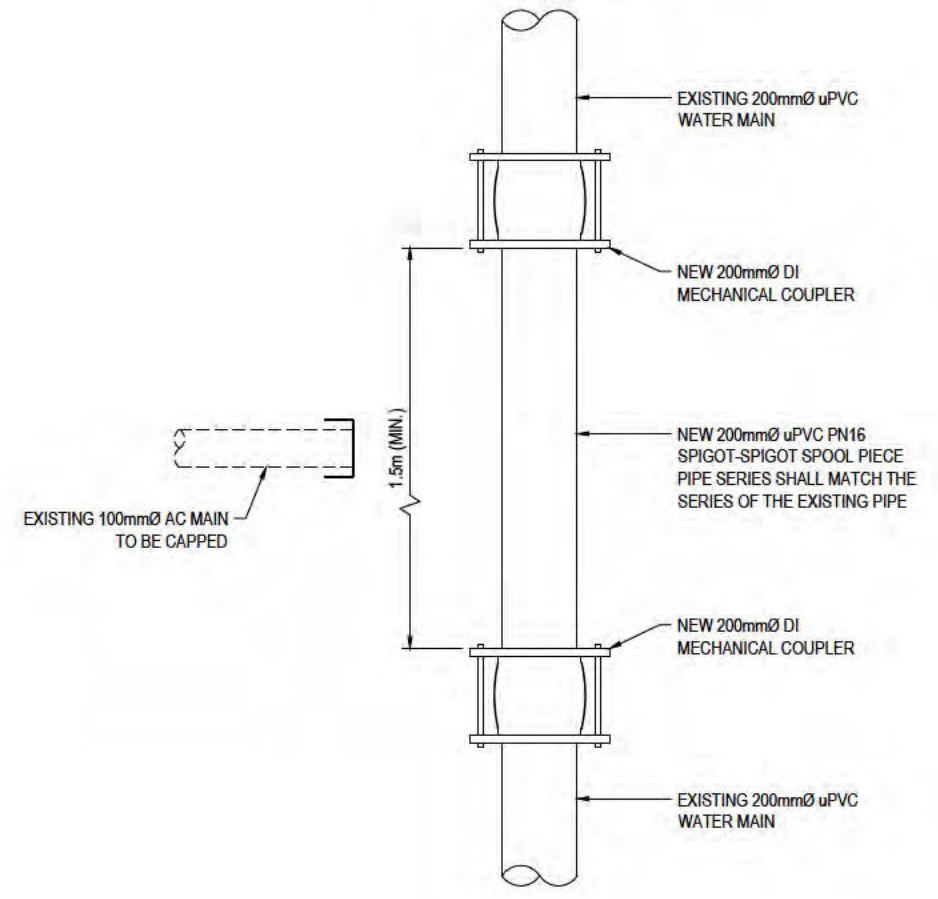


6 DETAIL
C202 N.T.S.



7 DETAIL
C202 N.T.S.

TYPICAL SCOUR VALVE DETAIL
(ELEVATION)
N.T.S.



8 DETAIL
C202 N.T.S.

No.	Revision	By	Chk.	Appd.	Date
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A	PRELIMINARY	SS	KS	KS	22/12/20

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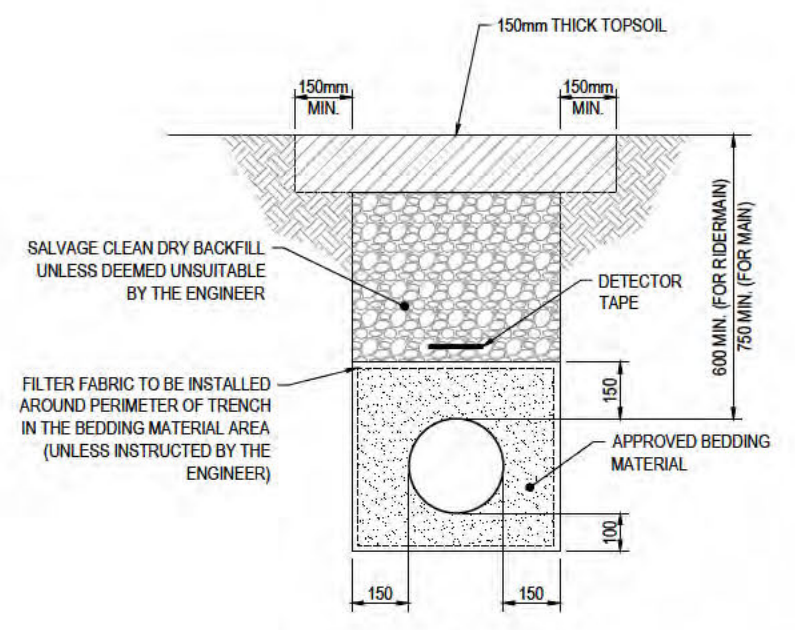
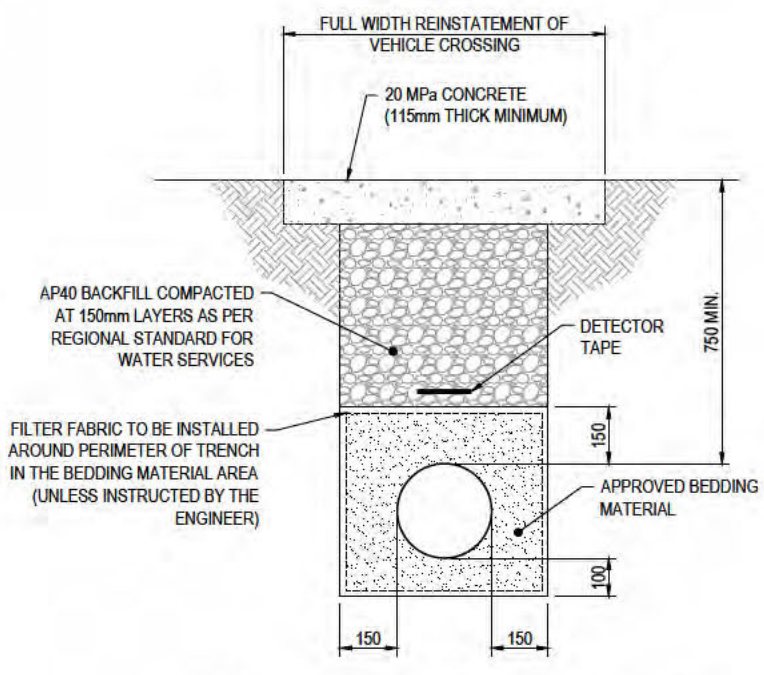
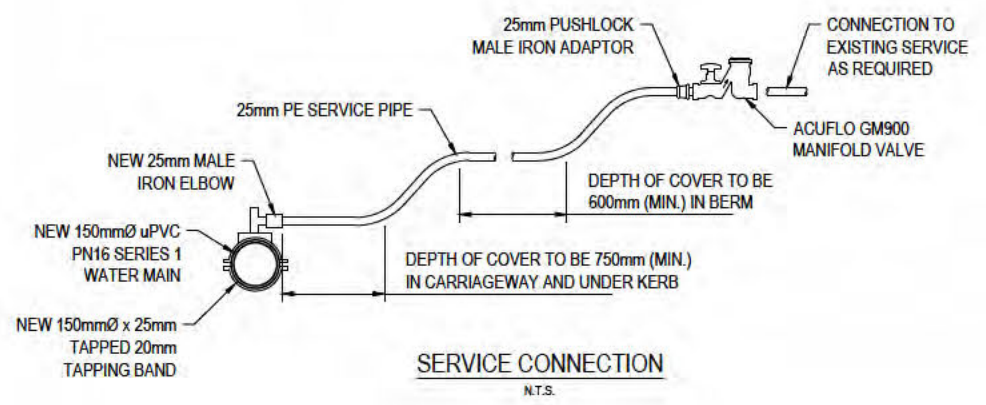
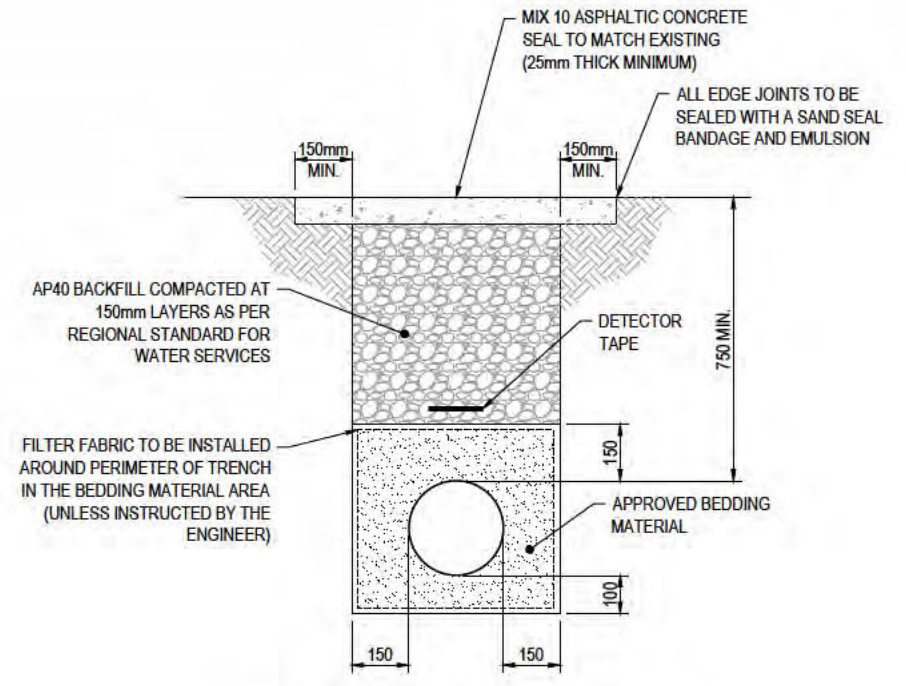
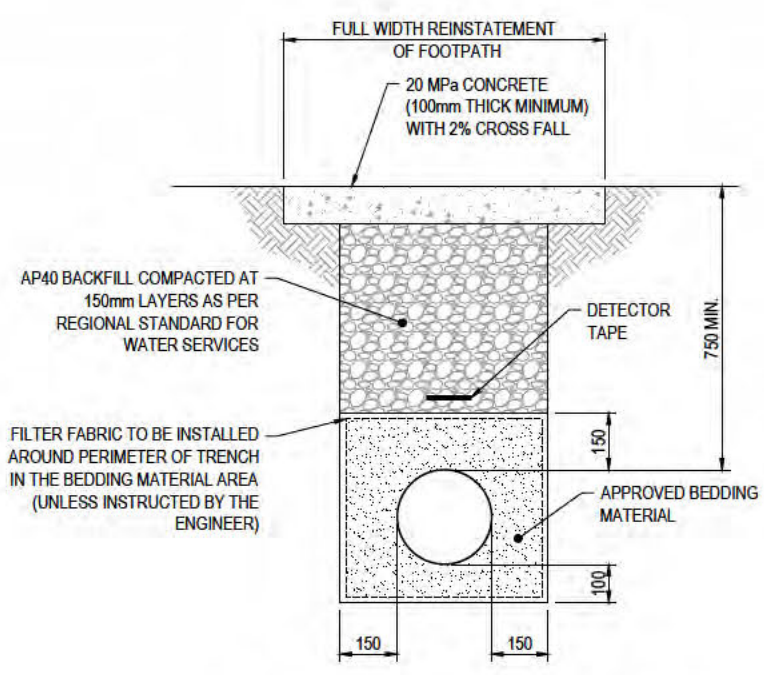
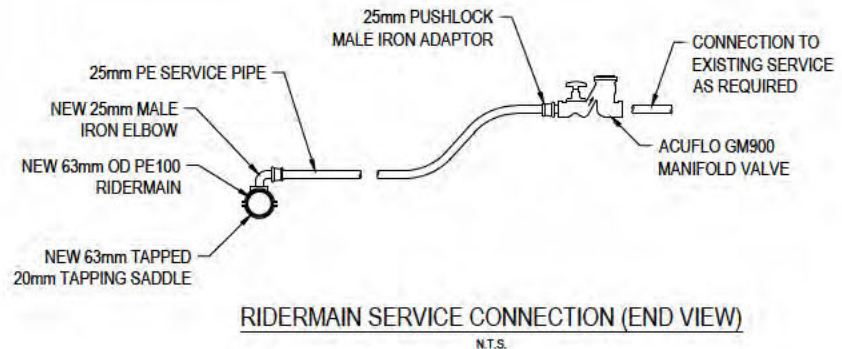
Client: **Wellington Water**
 Project: **WATER REFORM RENEWALS BRISTOL STREET**

Title: **CONNECTION DETAILS SHEET 4 OF 5**

Discipline: CIVIL	Rev. C
Drawing No. 12541327-C204	

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A3 REPRODUCTION SCALE

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* Refer to Revision 1 for Original Signature

Client: WELLINGTON WATER
Project: WATER REFORM RENEWALS BRISTOL STREET

Title: STANDARD TRENCH DETAILS SHEET 5 OF 5

Discipline	CIVIL
Drawing No.	12541327-C205
Rev.	C

DETAILED DESIGN
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Appendix I: Communications with RCA

7(2)(a)

From: 7(2)(a)
Sent: Thursday, 17 December 2020 9:46 AM
To: 7(2)(a)
Subject: UHCC Water main renewals
Attachments: BRISTOL.pdf; ISLINGTON.pdf

Hi 7(2)(a),

As part of the government funds that came through to Wellington Water for the Water Reform works, we are looking to complete water main renewals in the following streets:

Bristol Street
Islington Street
Kashmir Street

Base plans showing all the before-u-dig info is attached (we are still working on the Kashmir Street plan)

This Water Reform work is a fast-tracked project and we are currently commencing the design and hope to start construction in late January.

Would someone in your team be available to meet me on site either Monday or Wednesday next week to discuss potential alignments for the new water mains and rider mains in these streets? I understand given the short notice and that we are close to Christmas this might not be possible and might need to be pushed out to next year? Let me know the availability for someone in your team. Thanks.

Kind Regards,

7(2)(a))
CPEng CMEngNZ IntPE(NZ)
Water Lead

7(2)
(a)

→ **The Power of Commitment**

Connect



Please consider the environment before printing this email

Appendix J: Meeting Minutes

Meeting minutes included:

- Longlist and shortlist criteria meeting
- Safety in Design workshop meeting



Minutes

28 January 2021

Project	Water Reform Renewals	From	7(2)(a)
Subject	Upper Hutt - Longlist & shortlist criteria meeting	Tel	
Venue/Date/Time	Wellington Water offices, 01/12/2020	Job No	12541327
Copies to	All attendees		
Attendees	7(2)(a)	Apologies	Tony Jaegers (WWL)

Minutes

Action

KS described the longlist street selection by faults per 100m of road. Of the 17 streets identified, 2 (Pempsey St, Totara St) are to be renewed as part of separate projects currently in progress.

GHD to check areas of recent renewal on noted roads.

A further 2 streets (Tapestry Gr, Bonnie Glen Cr) were identified by TJ email as having significant renewals completed within the last 5 years. Location of faults and whether they happened before renewal is to be confirmed before removing these from the longlist.

In practice approximately 2-4 streets will be renewed with the current budget.

All attendees generally agreed with longlist.

KS explained the shortlist criteria and the logic behind them. The shortlist criteria excludes streets with: trunk mains, busy areas (e.g. main roads, near schools and shipping areas), contaminated land issues, and growth areas.

It was noted that most streets being considered have little planned growth, and growth areas would likely be automatically be excluded by the other criteria. JB suggested increasing any mains to a minimum pipe size of 150mm regardless due to minimal extra effort and cost.

All attendees generally agreed with shortlist criteria.

Minutes**Action**

KS noted PE pipe of the 1980s/90s is known for having joint issues which may be the cause of several faults throughout Upper Hutt.

JB explained typical services layout throughout Upper Hutt is to have waste- and stormwater under one footpath, water supply under the opposite footpath, with other utilities in the berm either side. UHCC will not like having services in the carriageway.

UHCC has a programme of road resealing coming up which it would be best to avoid. Most of this work will be main roads and therefore generally outside our work areas.

JB noted some streets have full width footpaths made of AC.

With most mains having 2-way feed shutdowns throughout area should affect few properties at once.

JB explained COG stance on several roads.

Bristol St and Islington St have AC pipe in very weak condition, and are ideal for renewal. JB would greatly prefer renewal of AC mains than rider mains for this work.

Miro St and Marlborough St have new UPVC water mains and the faults would likely be on the rider mains.

Molloys Rd and Whangakoko Gr are nuisances only and should be a low priority.

PM suggested 5 favoured streets for renewal from contractor perspective: Henry St, Bristol St, Islington St, Bathurst St, Ebdentown St. These were based on a desktop overview, with sites visits planned for later this week.

PM to visit proposed roads to determine construction viability.

JB fully agreed with the first 3 and indicated the last should be lowest priority of that list.

PM suggested general construction methodology as open trench for mains, directional drilling for rider mains, and pipe bursting for lateral pipes.

No engineer's estimate will be produced for this project, the contractor will price works. It is important to get the Schedule of Quantities correct. PM confirmed a regular rate per meter of pipe will apply for almost every street in this area. BP noted scope needs to be confirmed by WWL before a price can be submitted by the contractor.

Steps going forward:

GHD

- Safety in Design meeting to be organised by GHD. This includes touching base with RCA beforehand.
 - GHD to sort Before You Dig
 - GHD to write Delivery Plan
 - GHD to produce Monthly Report and send to BP
-

7(2)(a)
Senior Water Engineer



Minutes

16 December 2020

Project	Water Reform Renewals	From	7(2)(a)
Subject	Upper Hutt - Safety in Design workshop	Tel	
Venue/Date/Time	GHD offices / MS Teams, 16/12/2020	Job No	12541327
Copies to	All attendees		
Attendees	7(2)(a)	Apologies	7(2)(a)

Minutes

Action

KS recapped long- and shortlist decisions to date, including updated progress on shortlist selection. Current shortlist contains 6 streets.

JB raised query about why Bathurst Street was removed from shortlist. KS explained how a HAIL site was identified nearby. Although extent of contamination was not confirmed, previously suggested shortlist criteria exclude such sites to avoid complications.

It was suggested that new pipe routes could be positioned immediately behind kerb line and still be far enough from trees in berm.

Any new route in the carriageway would need strong and clear justification to the council.

Key items raised for Safety in Design register:

- Standovers should be arranged for key underground utilities, notably high voltage cables.
- Bunting suggested as a visual warning for overhead utilities.
- Traffic management: traffic volumes may be higher around the motel on Bristol Street, and the hall on Islington Street.

GHD to update SiD register

Traffic volume would also be higher along the Fergusson Drive, which may impact connections from work areas into the main road. However JB noted that some of these connection lengths had already been

Minutes

Action

renewed in 100mm PVC pipe and could reduce the more complex works across the main road as part of this project.

7(2)(a)

Senior Water Engineer

Hutt City Council

Hutt Valley Trunk Wastewater Activity *(Part of HCC Activity 9)*

**Activity Management Plan
October 2015**

have a typical useful life of 80 years so there are few gravity sewers identified as requiring cyclic replacement, however discrete assets have required maintenance from time to time and there is some uncertainty on several of the rising mains.

The most recent pipeline renewal work was the repair of scour to the river bed downstream of the Silverstream River Crossing pipeline structure. The rock apron downstream of the structure had become severely undermined and had collapsed in one section, and several scour holes had developed in the river channel immediately downstream of the structure. A large quantity of rock rip-rap was placed in 2012 to restore the river bed level and replace the missing apron section on the true left side. Scour protection of the true right bank of the river bed was completed in early 2015. Surface protection is ongoing as abrasion and cavitation wear the sacrificial layer of concrete on top of the structure. Polyurea has been sprayed in place in two sections and appears to be proving effective as a surface coating.

Another area that has required early renewals work is the Seaview Trade Waste Sewer. The Trade Waste Sewer, which although only installed around 30 years ago, has suffered sulphuric acid attack from H₂S generated by the Point Arthur to Seaview rising main. The upper pipe lengths of this sewer have been replaced by renovation techniques since 2001 resulting in improvements to approximately two thirds of the pipeline. This pipeline continues to be monitored and two manholes are requiring protection in 2015/16.

The Trade Waste Sewer in Parkside Road, Gracefield was shown by CCTV survey of this pipeline undertaken in 2008 that around 945m of pipe is affected by infiltration, caused by multiple circumferential cracks and a high water table. An investigation was carried out to assess the condition of the pipe based on the results from two core samples and the analysis of surrounding ground water. The technical report (Opus, 2008) suggested that the Gracefield Trade Waste Sewer is in good condition both externally and internally, with a remaining useful life of over 50 years. However, there does remain a significant infiltration problem and the pipe is in high liquefaction risk ground and close to the Waiwhetu Stream, so lateral spreading is a significant risk. Rehabilitation of the 30 year old pipe with a more seismically resilient material will be undertaken in stages.

Ongoing CCTV surveys have identified a number of pipes with a structural grading of at least 5 (refer Figure 30). The defects causing the poor structural grading in these pipes are reviewed and pipeline replacement planned where required. The streets and areas identified as having a structural grading of 5 or more in CCTV assessments include:

- William Street
- Hutt Park Road
- St Patrick's College
- Trentham Memorial Park
- Randwick Crescent
- Gracefield Trade Waste Sewer
- Parkside Road
- Whakatiki Street
- Kiwi Street
- Clouston Park Rd
- Kashmir Avenue

An ongoing program of pipe condition assessment (primarily by CCTV) will improve confidence in the accuracy of the renewal forecasts and enable a more detailed programme to be developed.

The need to replace the Petone Collecting Sewer in the next 10 years has also been identified. At this stage this has been classified as an improvement project under Section H.5.4 because it would be constructed as a duplicate pipeline to provide redundancy in the network.

It is acknowledged that the level of condition information about the network is low. A higher level of condition information is required to improve the confidence for the cyclic replacement budget in particular.