

## Jeevitha Jay

---

**From:** watercare@ticketaccess.pcgcs.nz  
**Sent:** Friday, 23 February 2018 5:03 PM  
**To:** Jeevitha Jay  
**Subject:** beforeUdig Response for Job No 1217166, Sequence No 6137689  
**Attachments:** 6137689 Critical Response Letter.pdf; 6137689 Non Critical Response Letter.pdf; 6137689 Critical.pdf; 6137689 Non Critical.pdf; Watercare Plans Terms of Use.pdf; watercare\_works\_over\_approval\_pipes\_public\_property\_form.pdf; works\_over\_approval\_large\_pipes\_private\_form.pdf

ATTENTION: Ms Jeevitha Chandrasekar

Please DO NOT SEND A REPLY to this email as it has been automatically generated and replies are not monitored.

Thank you for your beforeUdig enquiry.

Job No: 1217166  
Sequence No: 6137689  
Enquiry location:  
392 Panama Road  
Otahuhu  
Auckland, 1062

Attached are the files containing information relating to your recent beforeUdig request. Please read and understand all the attached documentation and contact Watercare on (09) 442 2222 or email [worksover@water.co.nz](mailto:worksover@water.co.nz) if you have any queries.

If you are unable to launch any of the files for viewing and printing, you may need to download and install free viewing and printing software such as:

Adobe Acrobat Reader (for PDF files) - <http://get.adobe.com/reader>



## **BeforeUdig Enquiry – Services Impacted**

Name: Ms Jeevitha Chandrasekar

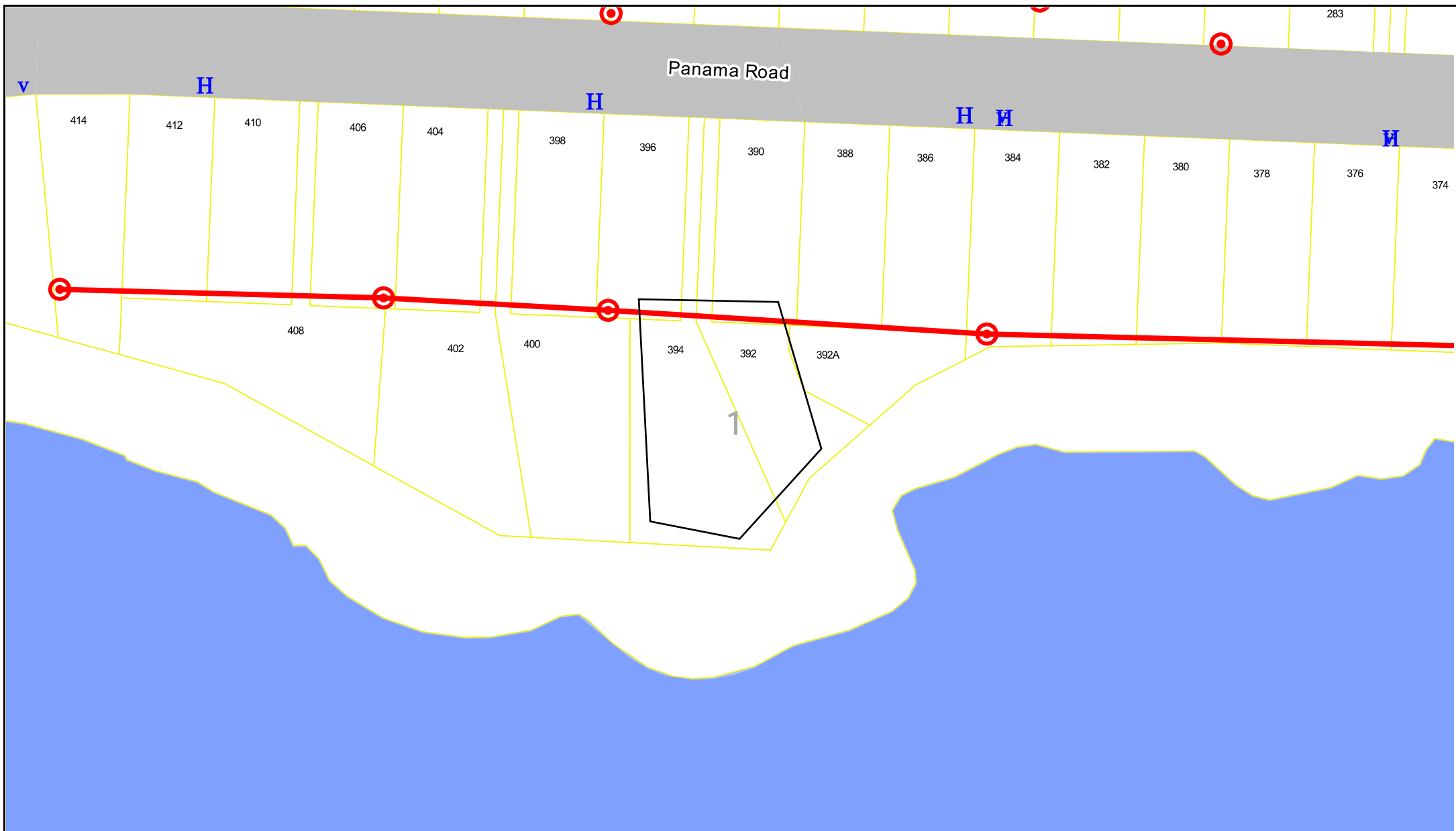
Site Location: 392 Panama Road, Otahuhu, Auckland 1062

Sequence Number: 6137689

Date: 23/02/2018

Thank you for your enquiry to provide water and wastewater service plans. The information below is to assist you with your works:

- The area indicated is within 10 metres of a critical asset owned by Watercare Services Limited (“Watercare”).
- Written approval is required from Watercare to carry out any construction, excavation or building works within this area.
- To allow Watercare to assess the proposed work, please complete the attached Works Over application form and return to **worksover@water.co.nz**.
- Include all relevant plans with the completed Works Over application form.
- A CCTV inspection may be necessary. Watercare will advise if this is required.
- There may be a charge for Watercare’s written approval.
- Watercare reminds you of regulations and guidelines that specify safe working practices and the penalties for carrying out unauthorised work. These include:
  - Health and Safety in Employment Act 1992 and its amendments.
  - Local Government Act 2002 and 2009.
  - The Utilities Access Act 2010 and its related Code of Practice.
  - Department of Labour “*Guide for Safety with Underground Services*”.
- If you require assistance or have any further queries you can either email **worksover@water.co.nz** or phone **(09) 442 2222**.



**Watercare**

An Auckland Council Organisation



Sequence Number: 6137689

Address: 392 Panama Road  
Otahuhu, Auckland, 1062

- Waste Water
- Water
- Electrical/Cathodic Protection
- Waste Water Proposed
- Water Proposed

- V Valve
- H Hydrant
- M Water Meter
- ⊙ Manhole

Scale: 1:1000



Watercare Services Ltd accepts no responsibility for incomplete or inaccurate information contained on this map. Use of this data is subject to, and constitutes acceptance of the conditions set out in our disclaimer. Topographic information is derived from Land Information New Zealand, CROWN COPYRIGHT RESERVED.

**OVERVIEW NOT TO SCALE.**



## WATER AND WASTEWATER PLANS - TERMS OF USE

### The information is supplied to you on the following terms and conditions:

---

- The attached plan/s are provided for reference purposes only and while due care has been taken in their preparation, Watercare Services Limited ("Watercare") does not accept any liability whatsoever for their accuracy or completeness and does not make any representation or warranty, express or implied in relation to the same.
- The plan/s show the location of Watercare's underground and above ground assets only. Separate enquiries should be made to other utilities for the location of their services. It is your responsibility to confirm the actual location of all existing utilities assets, above and below ground prior to commencement of any works.
- Where a 'plan for design purposes only' has been issued another plan must be requested by you through [www.beforeudig.co.nz](http://www.beforeudig.co.nz) within 14 days of any excavation. Allow 10 working days for processing where a locate and standover will be required; these are required for all critical Watercare assets.
- Watercare is continually altering and expanding its network; the attached information may become out of date. The attached plan is valid only at the date of issue; other assets may have been installed since. It is essential that any plan used is current at the time of excavation. Where plans are more than two months old they must not be used; a new plan must be requested from Watercare.
- Watercare can provide a free mark out service for your worksite when critical assets are present. Asset location markings are only valid for seven days after which time remarking is required at the applicants cost. Where CCTV is used to determine the location and depth of the wastewater assets it will be at the applicants cost. All requests for mark outs require at least two working days' notice. Please note that if the mark out is expected to take longer than one day we will require more than two working days' notice.
- Measurements and depths may vary from those shown on the plan. A physical check of the items on the plan should be undertaken to verify their exact location and other details. All equipment is shown diagrammatically only. In order to avoid interpretation difficulties, use only the original (coloured) plans in A3 format.
- Service lines to a property may or may not be shown. Where customer service connections are shown, these indicate the position where the connection crosses the front boundary only.

- Transmission water and wastewater mains as well as their related assets are critical to the security of water and wastewater services throughout the Auckland region. Damage to these can be extremely hazardous and costly to repair. These assets are not easily repaired and therefore anyone proposing to work within 10 metres of these assets requires Watercare consent. The consent will include the standover procedures and relevant contact details for the mark out.
- Watercare reminds you of your responsibilities under the Health and Safety in Employment Act 1992. You must establish the location of underground services before commencing any excavation. If you fail to do so, you will be held liable for any loss or damage that you may cause.

**Under no circumstances are you permitted to carry out work on Watercare assets unless you have consent and are an approved Watercare contractor carrying out work on behalf of Watercare.**

## **Your Legal Requirements**

---

The Department of Labour has set down minimum safe work practices for carrying out any work near underground assets. You are encouraged to view their 'Guide for Safety with Underground Services'. It can be viewed at their website and downloaded for free.

There are also further government laws and regulations that specify safe working practices and the penalties for carrying out unauthorised work. These include:

- Health and Safety in Employment Act 1992 and its amendments
- Local Government Act 2002
- Local Government (Auckland Council) Act 2009
- The Utilities Access Act 2010

## **Important Contact Numbers**

---



For obstruction plans of the water and wastewater networks contact BeforeUDig on 0800 248 344



If there is a leak or a strike on a Watercare asset immediately call us on (09) 442 2222

# Works Over approval: pipes on public property

Apply for approval to start working over or near our underground pipes on public property

Please complete and return this form to  
Post: Watercare, Private Bag 94010, Auckland 2241  
Email: [worksover@water.co.nz](mailto:worksover@water.co.nz)  
Phone: (09) 442 2222 Website: [www.watercare.co.nz](http://www.watercare.co.nz)

## Important information

Before you fill in this application, please visit the beforeUdig website at [www.beforeudig.co.nz](http://www.beforeudig.co.nz). You can find out which underground assets are on your planned work site, the requirements, and whether you need Watercare approval to proceed. If you need approval, please fill out this form and attach all the required documents. Email or post them to the address above.

## Checklist

Yes, I have attached (please tick):

- ☐ Your beforeUdig sequence number:
- ☐ A plan showing your proposed works in relation to our water and wastewater pipes
- ☐ A cross-section drawing showing vertical and horizontal clearances from all water and wastewater pipes and manholes

## 1. Your details

First name	<input type="text"/>	Last name	<input type="text"/>
Company (if applicable)	<input type="text"/>		
Postal address:			
Street number	<input type="text"/>	Street name or PO Box	<input type="text"/>
Suburb	<input type="text"/>	Postcode	<input type="text"/>
Email	<input type="text"/>		
Phone	<input type="text"/>	Mobile	<input type="text"/>

## 2. Client's details

First name	<input type="text"/>	Last name	<input type="text"/>
Company (if applicable)	<input type="text"/>		
Postal address:			
Street number	<input type="text"/>	Street name or PO Box	<input type="text"/>
Suburb	<input type="text"/>	Postcode	<input type="text"/>

Email	<input type="text"/>		
Phone	( <input type="text"/> ) <input type="text"/>	Mobile	<input type="text"/>

## 3. Site address or location

<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>

## 4. Work details

Construction start date:

Construction end date:

Briefly describe the work you plan to do, and the type of pipes you will be working near e.g. water, wastewater or both:

<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>

5. Declaration

I declare that the information on this application is true and correct. I understand that if there is any damage to Watercare’s assets above or below ground as a result of these works, Watercare will recover all costs associated with any subsequent remedial works.

Name	<input type="text"/>	Signature	<input type="text"/>
		Date	<input type="text" value="DD / MM / YYYY"/>

Privacy

We may use this information to process your application, update our records or help improve our services. We will not disclose it unless required by law. You have the right to access your information, and you can ask us to correct any errors.





**Watercare Services Limited**

Private Bag 92521

Auckland 2241

Ph (09) 442 2222

[www.watercare.co.nz](http://www.watercare.co.nz)**14 March 2013**

Visionstream  
PO Box 5100,  
Freemans Bay,  
**Auckland 1011**

**Attention:** Shaun McDiarmid**GENERAL WORKS CONSENT****FOR WORKS WITHIN 10 METRES OF WATERCARE RETAIL WATER OR WASTEWATER ASSETS**

<b>Location of works :</b>	Watercare Services Limited area of service
<b>Type of work approved :</b>	Installing and maintaining cable ducts, pits, manholes, cabinets, cables and connections for the telecommunications and/or Ultra Fast Broadband networks.
<b>Assets covered by this consent :</b>	All retail water or wastewater pipes.
<b>Assets not covered by this consent :</b>	<ul style="list-style-type: none"><li>• Transmission water and wastewater pipes</li><li>• Rising (pressurised) wastewater mains</li><li>• Retail water and wastewater pipes located in the previous Papakura District Council area</li></ul>

**This consent does not apply to transmission water or wastewater pipes and rising (pressurised) wastewater pipes.** Please contact the Works Over team at [worksover@water.co.nz](mailto:worksover@water.co.nz) for a specific Works Consent for proposed work within 10 metres of such mains.

**CONDITIONS:****General**

1. Transmission water and wastewater mains as well as their related assets are critical to the security of water and wastewater services throughout the Auckland region. Damage to these can be extremely hazardous and costly to repair. Specific Works Approval is required from Watercare for any works within 10 metres of a transmission water or wastewater pipe and all rising (pressurised) wastewater pipes. The location of these transmission water or wastewater pipes and rising wastewater pipes has been supplied to Visionstream in GIS format.
2. A plan is to be obtained of Watercare assets for all work sites using the Auckland Council GIS and beforeUdig service.
3. Visionstream is responsible for ensuring that all of the requirements and conditions of this General works Consent are met. All contractors/sub-contractors working for Visionstream shall be made aware of and comply with all these requirements.
4. If any Watercare assets are damaged, immediately call Watercare (09) 442 2222. Note that Watercare will recover the cost to repair any damage together with administrative and supervision charges.

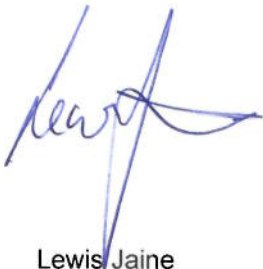
5. No one may work on or interfere with a Watercare asset unless they are an approved Watercare contractor engaged by Watercare.
6. A copy of this consent and any associated documentation must be held on each of the construction sites.
7. This General Works Consent is valid for a period of 6 months from the date of issue.
8. Watercare reserves the right to amend this General Works Consent at any time.

#### **Construction**

9. Extreme care is to be taken when working around Watercare assets.
10. All Watercare assets are to be located and marked on site prior to commencement of works. If Watercare assistance is required to locate mains 300mm diameter or greater, please contact Howard Hereora, phone (09) 539 7554. 48 hours notice is required.
11. Any traffic management required to locate services shall be supplied by the contractor.
12. Minimum clearances to Watercare assets 300mm diameter or greater are:
  1. **1.0 metre** horizontal clearance to Watercare assets when trenching parallel to Watercare assets or constructing any other structure or service.
  2. **2.0 metres** horizontal clearance when directional drilling parallel to Watercare assets.
  3. **0.5 metres** vertical clearance at the crossing point when constructing services over or under Watercare assets.
13. If directional drilling is employed, it shall be carried out in accordance with Watercare's information sheet's "*Procedure for Directional Drilling Over/Under Watercare Pipes*" (copies attached).
14. Directional drilling and/or trenching across or within 2.0 metres of a Watercare pipe 300mm diameter or greater **SHALL BE CARRIED OUT UNDER WATERCARE SUPERVISION**. Arrange with Howard Hereora (09) 539 7554. 48 hours' notice is required.
15. If crossing over the pipe, pilot at the crossing point to a depth of 0.5 metres below the invert of the proposed cable duct to ensure that the required clearance can be obtained. If unachievable, contact Howard Hereora for further instructions.
16. If crossing under the pipe, the pipe is to be exposed in accordance with Watercare's information sheet "*Piloting to Watercare Watermains*" (copy attached).
17. Do not park or operate heavy machinery directly over the Watercare pipe.
18. In an emergency, contact the Watercare emergency phone (09) 442 2222.

If any of the above requirements cannot be met please contact Howard Hereora of Watercare prior to commencement of any work.

Yours faithfully,

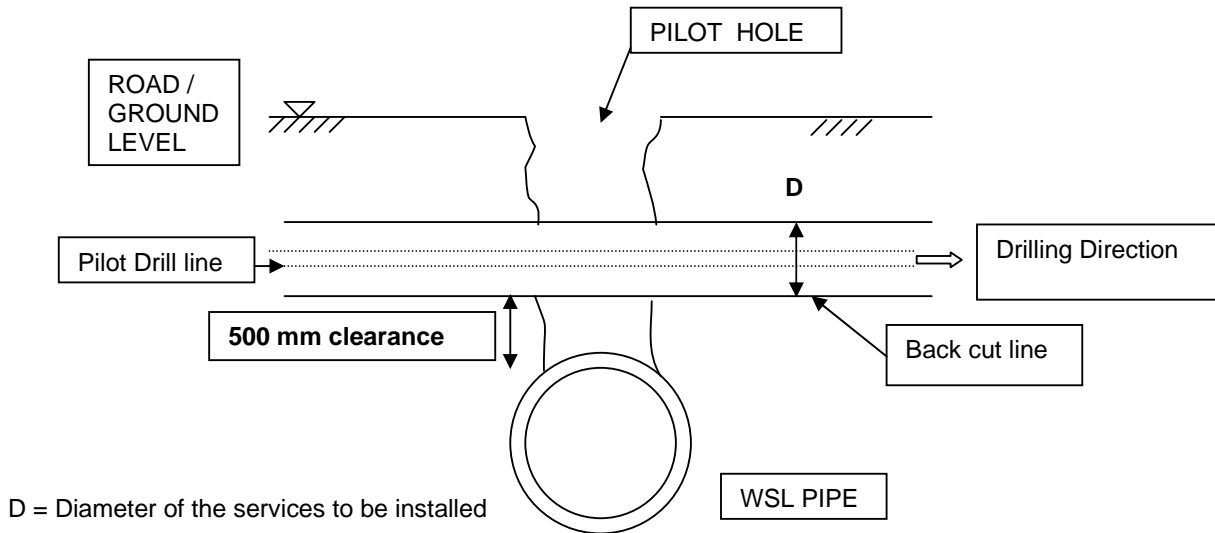


Lewis Jaine

**New Connections and Works Over Manager**

## PROCEDURE FOR DIRECTIONAL DRILLING OVER WATERCARE PIPES

**DIAGRAM "B"**



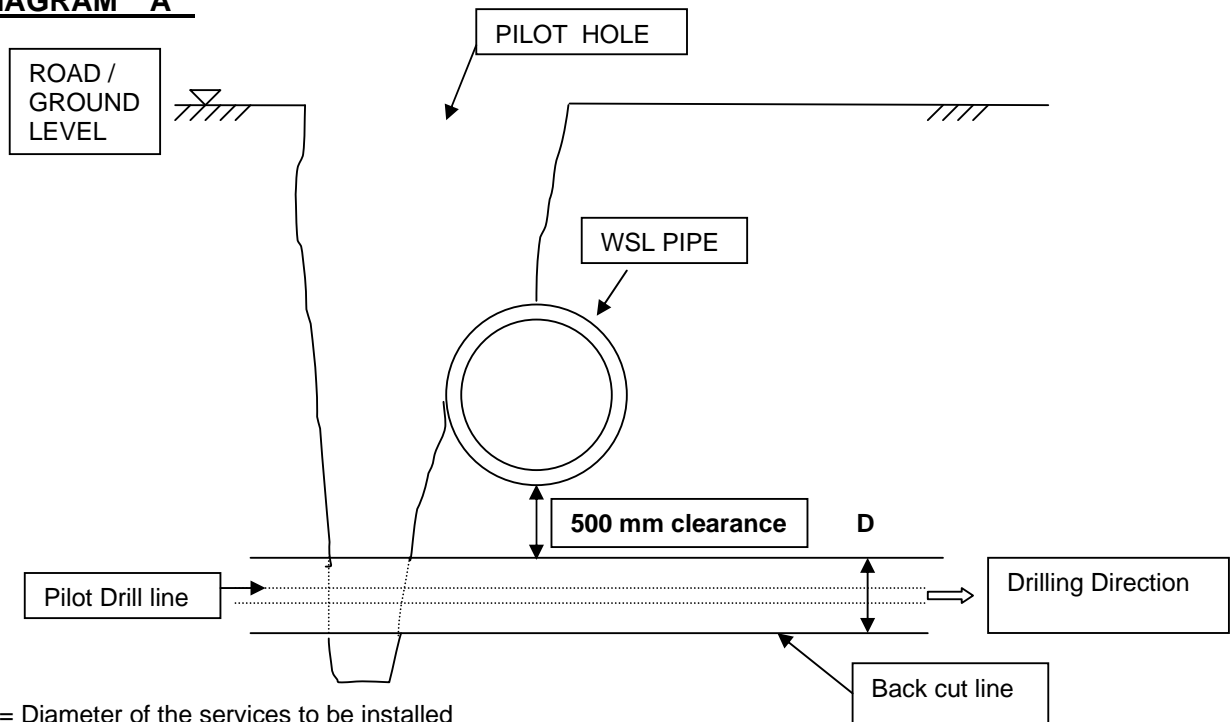
- STEP 1:** Locate and Pilot down to Watercare pipe and determine it's crown level. (Refer to information sheet "Piloting to Watercare watermains")
- STEP 2:** Check whether sufficient cover is available to install the proposed services with a minimum vertical clearance of 500 mm to the top of the Watercare pipe.
- STEP 3:** If above clearances can be achieved, directional drilling can commence through the hole. The Watercare Stand Over Inspector is to observe the directional drilling operation to ensure that the drill bit actually passes over the Watercare pipe with the required clearance (contact **Howard Hereora**, ph (09) 539 7554) to arrange supervision. 48 hours notice is required.
- STEP 4:** After installation of services, backfill the pilot pit as per instructions given in the the information sheet.

**NOTE:**

- If clearances cannot be obtained proceed with open trenching.
- If directional drilling is used to install services parallel to Watercare pipes, a minimum clearance of 2.0 metres is required between the pipes.
- A Watercare Stand Over Inspector is to observe work when the minimum clearances cannot be achieved.

## PROCEDURE FOR DIRECTIONAL DRILLING UNDER WATERCARE PIPES

### DIAGRAM " A "



**STEP 1:** Locate and Pilot down to Watercare pipe and determine it's crown level. (Refer to attached information sheet "Piloting to Watercare watermains" )

**STEP 2:** Based on the crown level and the pipe OD determine the pipe bottom level. Proposed services are to be installed with a minimum vertical clearance of 500 mm to the bottom of the pipe. Deepen the pilot hole below the level of the proposed services. Ensure no loss of Watercare pipe bedding material takes place.

**STEP 3:** If above clearances can be achieved Directional Drilling can commence through the pilot hole. Watercare Stand Over Inspector is to observe the directional drilling operation to ensure that the drill bit actually passes under the Watercare pipe with the required clearance (contact Howard Hereora, ph (09) 5397554) to arrange supervision. 48 hours notice is required.

**STEP 5:** After installation of services, backfill the pilot pit as per instructions given in the the information sheet.

#### NOTE:

- If clearances cannot be obtained proceed with open trenching.
- If directional drilling is used to install services parallel to Watercare pipes, a minimum clearance of 2.0 metres is required between pipes.
- A Watercare Stand Over Inspector is to observe work when the minimum clearances cannot be achieved.



### **PILOTING TO WATERCARE WATERMAINS**

Where piloting is necessary to determine the depth and/or position of a Watercare watermain, the following procedures and requirements shall be observed:

1. The Watercare watermain is to be located and marked on site prior to commencement of works. Should Watercare assistance be required to locate the watermain please contact Howard Hereora of Watercare, (ph (09) 539 7554) at least 48 hours prior to commencement of the setting out.
2. Note the pipe type from the Watercare approval. This will generally be Concrete Lined Steel (CLS), Cast Iron (CI), or Asbestos Cement (AC), although Reinforced Concrete and Polyethylene have also been used. Also note if cathodic protection is present on CLS pipes.
  - Cast Iron pipe is the oldest in the Watercare system and was probably used up to the early 1940's. The joints are lead packed and will leak if disturbed. Excessive vibration will damage cast iron pipes. Cast iron pipes will have no protective coating. Great care needs to be taken when excavating or backfilling adjacent to cast iron watermain.
  - Asbestos cement pipe was popular in the 1960's and 70's, and is often fragile. Great care needs to be taken when excavating or backfilling adjacent to an AC watermain.
  - Steel pipe has been used for a long time in various forms. Concrete lined spiral welded pipe has been used since the 1950's, first with coal tar coatings, and from the mid 1980's with tape wrap coatings, such as Polyken. Denso petrolatum tape was used for wrapping pipe joints approximately up to the adoption of Polyken. The pipe is durable if its tape wrapping remains intact and particularly if cathodic protection is employed as well. Most CLS pipes encountered will have welded spigot and socket joints, however welded band, rubber ring and gibault joints have also been utilised. Gibault joints in particular are vulnerable due to their construction and possibility of the components being corroded.
3. Locate the position of the watermain as accurately as possible, using surface features and/or available as-built data.
4. For cast iron & asbestos cement pipes, hand tools are to be used for excavation. If rock is encountered, use of rock breakers within 2 metres of the pipes is not permitted. Use pneumatic hand tools with care.
5. Carefully excavate to the top of the pipe, and around the pipe as necessary. Note that pipes laid post the 70's and 80's usually have scoria surround, while those earlier will have no granular surround.
6. Before backfilling, repair any coating damage. For tape wrapped pipe use either the Polyken YG III or Serviwrap R30A systems, applied in accordance with the manufacturers instructions. If a coal tar coating is damaged, Watercare will repair this at the applicant's cost.
7. Notify Watercare that the watermain is ready for inspection, prior to commencement of the backfilling. Watercare may also survey the position of the exposed pipe at this time.
8. Place SAP 7 or sand pipe surround to a minimum 300mm thickness around the pipe and compact with a hand operated compactor.
9. Backfill the excavation with hardfill, if in the road reserve and reinstate the road in accordance with Auckland Transport's requirements.