629 Newcastle Street Leederville WA 6007 PO Box 100 Leederville WA 6902 T (08) 9420 2420 F (08) 9420 3626

Our Ref: Aqua Doc # 13467173 Enquiries: Carole Armstrong Telephone: 9420 3562

4th November 2015

Dr Paul Vogel Environmental Protection Authority Locked Bag 33 Cloister square PERTH W A 6850

Office of the Environmental Protection Authority		1 6 NOV 2015	For Information	Discussion	For Action	Response please:	Dps GM Signature	Dir for GM (copy to GM	Sup Dir Signatur	Mgr Direct
Office of th Protect	File:	16	A:	fa:	Officer:	Dir.AC	Dir. Bus Ops	Dir. SPPD	Dir. Strat Sup	

Attn: Mike Pengelli

Dear Dr Vogel

#### REFERRAL OF BUSSELTON WEST STREET PRESSURE MAIN UNDER SECTION 38 OF THE ENVIRONMENTAL PROTECTION ACT 1986

Please find enclosed a completed proponent referral form in relation to the above project for consideration under Section 38(1) of the *Environmental Protection Act* 1986.

The proposed Busselton West Street Pressure Main involves the construction and operation of a 840m, DN450 wastewater pressure main from West Street Wastewater Pump Station to the intersection of Fairlawn Road and Frederick Street, Busselton (Figure 1).

A desktop assessment identified that a 400m section of the proposed pressure main alignment intersects the buffer of an Environmental Protection Policy Lake. The area is also mapped as presenting a high acid sulfate soil risk (Figure 2).

Due to the close proximity of the proposed alignment to two EPP Lakes, the Water Corporation considers there is a potential environmental impact associated with the excavation and dewatering required to install the pressure main. Accordingly, the Corporation has committed to remove a portion of excavated soil to landfill and import clean backfill, with the remaining 866m3 to be treated by a mobile truck with a hopper resulting in no soil being stockpiled. All dewatering water will be either transferred to sewer or carted to the nearest Water Corporation owned WWTP. This requirement will be outlined in an Acids Sulfate Soils and Dewatering Management Plan for this project.

The proposed alignment option has been located within road verges and already cleared areas; however a small stand of trees is required to be cleared so the new pressure main can be connected to the West Street Pump Station (Figure 3). Alternative alignments were investigated, however the Shire's plans to widen West Street and the high density of existing services, lead the Water Corporation to choose the proposed alignment.

The Water Corporation sought advice from Michael Pengelli on 30<sup>th</sup> June 2015, regarding referral of this project to the Environmental Protection authority (EPA) for assessment.

The Water Corporation considers that the construction and operation of the proposed pressure main does not require formal assessment under part IV of the EP Act and can be appropriately managed in accordance with the management plans to be developed specifically for this proposal and in accordance with a clearing permit issued under part V of the EP Act.

Should you have any queries regarding this project, please contact Carole Armstrong of the Safety, Environment and Aboriginal Affairs Branch on 9420 3562 or via email at carole.armstrong@watercorporation.com.au.

Yours sincerely,

Bree Atkinson A/Team Leader Environmental Impact Assessment Safety, Environment and Aboriginal Affairs Water Corporation

Encl:

 Attachment 1:
 Section 38 Referral Form

 Attachment 2:
 Figures 1 – Location

 Figure 2 – Swan Coastal Plain Environmental Protection Policy and Acid

 Sulfate Soils

 Figure 3 – West Street Pump Station

 Spatial Data:
 Pipeline Alignment

 Attachment 3:
 Design Plans

 Attachment 4:
 Geotech and Acid Sulfate Soils Investigations

Attachment 4: Geotech and Acid Sulfa Attachment 5: Landowner Permission



# Referral of a Proposal to the Environmental Protection Authority under Section 38 of the *Environmental Protection Act 1986*.

#### PURPOSE OF THIS FORM

Section 38 of the *Environmental Protection Act 1986* (EP Act) makes provision for the referral to the Environmental Protection Authority (EPA) of a proposal (significant proposals, strategic proposals and proposals under an assessed scheme) by a proponent, a decision making authority (DMA), or any other person.

The purpose of this form is to ensure that EPA has sufficient information about a proposal to make a decision about the nature of the proposal and whether or not the proposal should be assessed under Part IV of the EP Act. Information provided in the referral form must be brief (no more than 30 pages), sharp and succinct to achieve the purposes of this form.

This form does not prevent the referrer from providing a supplementary referral report. Should a referrer choose to submit a supplementary referral report please ensure the following.

- i. Information is short, sharp and succinct.
- ii. Attachments are below eight megabytes (8 MB) as they will be published on the EPA's website (exemptions apply) for public comment. To minimise file size, "flatten" maps and optimise pdf files.
- iii. Cross-references are provided in the referral form to the appropriate section/s in the supplementary referral report.

This form is to be used for all proposals<sup>1</sup> which can be referred to the EPA under section 38 of the EP Act; i.e. referrals from: **proponents** of proposals (significant proposals, strategic proposals, derived proposals, proposals under an assessed scheme); **DMAs** (significant proposals); and **third parties** (significant proposals).

This form is divided into several sections, including; Referral requirements and Declaration; Part A - Information of the proposal and proponent; and Part B Environmental Factors. Guidance on successfully completing this form is provided throughout the form and is also available in the EPA's *Environmental Assessment Guideline for Referral of a Proposal under s38 of the EP Act (EAG 16)*.

#### Send completed forms to

Office of the Environmental Protection Authority Locked Bag 10, East Perth WA 6892

or Email: Registrar@epa.wa.gov.au

#### Enquiries

Office of the Environmental Protection Authority Locked Bag 10, East Perth WA 6892 Telephone: 6145 0800 Fax: 6145 0895 Email: <u>info@epa.wa.gov.au</u> Website: <u>www.epa.wa.gov.au</u>

<sup>&</sup>lt;sup>1</sup> Please note that this form consolidates and replaces the following forms: *Referral of a Proposal by the Proponent to the EPA under section 38(1) of the EP Act, Referral of a Proposal by a third party to the EPA under section 38(1) of the EP Act, and Referral of a development proposal to the EPA by the decision making authority.* 

## **Referral requirements and Declaration**

The following section outlines the referral information required from a proponent, decision making authority and third party.

## (a) Proponents

Proponents are expected to complete all sections of the form and provide GIS spatial data to enable the EPA to consider the referral. Spatial GIS data is necessary to inform the EPA's decision.

The EPA expects that a proponent will address Part B of the form as thoroughly as possible to demonstrate whether or not the EPA's objectives for environmental factors can be met.

If insufficient information is provided the EPA will request more information and processing of the referral will commence once the information is provided or the EPA decides to make a precautionary determination on the available information.

Proponent to complete before submitting form	
Completed all the questions in Part A (essential)	🖂 Yes 🗌 No
Completed all the questions in Part B	🖂 Yes 🗌 No
Completed all other applicable questions	🖾 Yes 🗌 No
Included Attachment 1 – any additional document(s) the proponent wishes to provide	🖾 Yes 🗌 No
Included Attachment 2 – confidential information (if applicable)	☐ Yes N/A
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but clearly separating any confidential information	🛛 Yes 🗌 No
Completed the Declaration	🖂 Yes 🗌 No
What is the type of proposal being referred? * a referred proposal seeking to be declared a derived proposal	<ul> <li>significant</li> <li>strategic</li> <li>derived*</li> <li>under an assessed scheme</li> </ul>
Do you consider the proposal requires formal environmental impact assessment?	🗌 Yes 🛛 No
If yes, what level of assessment? API = Assessment of Proponent Information PER = Public Environmental Review	API Category A API Category B PER

**NB:** The EPA may apply an Assessment on Proponent Information (API) level of assessment when the proponent has provided sufficient information about:

- the proposal;
- the proposed environmental impacts;
- the proposed management of the environmental impacts; and
- when the proposal is consistent with API criteria outlined in the <u>Environmental Impact</u> <u>Assessment (Part IV Division 1 and 2) Administrative Procedures 2012</u>.

If an API A formal level of assessment is considered appropriate, please refer to Environmental Assessment Guideline No. 14 *Preparation for an Assessment on Proponent Information (Category A) Environmental Review Document EAG 14* (EAG14).

#### Declaration

I, Bree Atkinson, declare that I am authorised on behalf of Water Corporation (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Signature		Name (print) Bree Alkinson			
Position Team Leader , E \ A		Organisation	Water Corporation	on	
Email	Bree.atkinson@watercorpo	pration.com.au			
Address	629	Newcastle Street			
	Leederville		WA	6007	
Date	11/11/2015	>			

## (b) Decision-making authority

The EPA expects decision-making authorities to complete applicable sections of Part A of the form and provide the proponent an opportunity to provide additional information in Part B of the form where appropriate.

Wherever possible the DMA should obtain relevant spatial information from the proponent and provide this to the EPA with the referral.

DMA to complete before submitting form	
Completed all the questions in Part A (essential)	🗌 Yes 🗌 No
Provided Part B to the proponent for completion	🗌 Yes 🗌 No
Completed all other applicable questions	🗌 Yes 🗌 No
Included Attachment 1 – any supporting information	🗌 Yes 🗌 No
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping	Yes No
Completed the below Declaration	🗌 Yes 🗌 No
Do you consider the proposal requires formal environmental impact assessment?	🗌 Yes 🗌 No
What is the type of proposal being referred?	<ul> <li>significant proposal</li> <li>significant proposal under an assessed scheme</li> </ul>
	an assessed scheme

### Declaration

I, ....., *(full name)* submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature		Name (print)		
Position		Organisation		
Email				
Address	Street No.	Street Name		
	Suburb		State	Postcode
Date				

## (c) Third Party

Third parties are asked to have consideration for the Significance Test outlined in Part A Section 1.5 of this form before referring a significant proposal to the EPA. The EPA will only consider proposals that are likely, if implemented, to have a significant effect on the environment.

Third parties are to provide sufficient information to clearly identify the significant proposal, the proponent, and their reasons for referring the proposal. This can be done by completing as much of Part A of the form as possible, taking into consideration the information available. Third parties may wish to fill in Part B of the form to advance their own views of the significance of the environmental impacts and the need for EPA assessment.

In most cases the EPA will seek additional information from the proponent. This will be to confirm or amend the identity of the proponent, the proposal, and to allow the proponent opportunity to provide its views on the significance of the environmental impacts and the need for EPA assessment.

Third Party to complete before submitting form			
Complete all applicable questions in Part A and B	🗌 Yes	🗌 No	
Completed the Declaration	🗌 Yes	🗌 No	
Do you consider the proposal requires formal environmental impact assessment?	☐ Yes	🗌 No	

#### Declaration

I, ....., *(full name)* submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature		Name (print)				
Email						
Position		Organisation				
Address	Street No.	Street Name				
	Suburb		State	Postcode		
Date						

## PART A: Information on the proposal and the proponent

All fields of Part A must be completed by the proponent and/or decision-making authority for this document to be processed as a referral. Third party referrers are only expected to fill in the fields they have information for.

#### 1 PROPONENT AND PROPOSAL DESCRIPTION

#### **1.1** The proponent of the proposal

Proponent and/or DMA to complete	
Name of the proponent	Water Corporation
Joint Venture parties (if applicable)	
Australian Company Number(s)	ABN 28 003 434 917
Postal Address (Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)	PO Box 100 Leederville WA 6902
Key proponent contact for the proposal Please include: name; physical address; phone; and email.	Carole Armstrong 629 Newcastle Street Leederville 9420 3562 Carole.armstrong@watercorporation.com.au
Consultant for the proposal (if applicable) Please include: name; physical address; phone; and email.	

#### 1.2 Proposal

Proposal is defined under the EP Act to mean a "project, plan, programme policy, operation, undertaking or development or change of land use, or amendment of any of the foregoing, but does not include scheme". Before completing this section please refer to <u>Environmental Protection</u> <u>Bulletin 17 – Strategic and derived proposals (EPB 17)</u> and <u>Environmental Assessment Guideline</u> for Defining the Key Characteristics of a proposal (EAG 1).

Proponent and/or DMA to complete				
Title of the proposal	Busselton West Street Pipe Alignment			
What project phase is the proposal at?	<ul> <li>Scoping</li> <li>Feasibility</li> <li>Detailed design</li> <li>Other</li> </ul>			
Proposal type More than one proposal type can be identified, however for filtering purposes it is recommended that only the primary proposal type is identified.	<ul> <li>Power/Energy Generation</li> <li>Hydrocarbon Based – coal</li> <li>Hydrocarbon Based – gas</li> <li>Waste to energy</li> <li>Renewable – wind</li> <li>Renewable – wave</li> <li>Renewable – solar</li> <li>Renewable – geothermal</li> </ul>			

Proponent and/or DMA to complete	
	<ul> <li>Mineral / Resource Extraction</li> <li>Exploration – seismic</li> <li>Exploration – geotechnical</li> <li>Development</li> </ul>
	<ul> <li>Oil and Gas Development</li> <li>Exploration</li> <li>Onshore – seismic</li> <li>Onshore – geotechnical</li> <li>Onshore – development</li> <li>Offshore – seismic</li> <li>Offshore – geotechnical</li> <li>Offshore – development</li> </ul>
	<ul> <li>Industrial Development</li> <li>Processing</li> <li>Manufacturing</li> <li>Beneficiation</li> </ul>
	<ul> <li>Land Use and Development</li> <li>Residential – subdivision</li> <li>Residential – development</li> <li>Commercial – subdivision</li> <li>Commercial – development</li> <li>Industrial – subdivision</li> <li>Industrial – development</li> <li>Agricultural – subdivision</li> <li>Agricultural – development</li> <li>Tourism</li> </ul>
	<ul> <li>✓ Linear Infrastructure</li> <li>□ Rail</li> <li>□ Road</li> <li>□ Power Transmission</li> <li>□ Water Distribution</li> <li>□ Gas Distribution</li> </ul>
	✓ Pipelines
	<ul> <li>Water Resource Development</li> <li>Desalination</li> <li>Surface or Groundwater</li> <li>Drainage</li> <li>Pipelines</li> <li>Managed Aquifer Recharge</li> </ul>
	Marine Developments  Port Jetties Marina Canal Aquaculture

Proponent and/or DMA to complete					
		Dred	ging		
	L	f other, please	state	below:	
		Other			
Proponent and/or DMA to complete					
Description of the proposal – describe the key		Summary of	the F		
characteristics of the proposal in accordance with		Proposal title			elton West et Pipe
<u>EAG 1</u> .					iment
		Proponent na			er Corporation
		Short Descrip	tion		proposal is to 840m of
				DN4	50 PE100
					s 12.5 sure main
				•	the West
					et Wastewater
					p Station to
				Fairla	awn and
					erick streets, elton.
				Duou	
		Physical Elem	1		
		Element	Loca	ation	Proposed Extent
		1.Sewerage	Figu	re 1	Clearing no more than
		Pipe Alignment			two native
					shrubs
					located within the
					pump
					station site, of a .84ha
					linear
					footprint.
		2. Dewatering	Figu	ire 1	Dewatering required for
		g			project.
					Dewatering water will be
					discharged
					to the local
					Water Corporation
					Sewer or
					carted to the closed
					waste water
					treatment
		Acid Sulfate	Fiau	re 2	plant. a portion of
		soil			excavated
					soil will be

## Proponent and/or DMA to complete

disposed of
to landfill
and import
clean
backfill. The
remaining
866m3 soil
will be
treated with
Aglime by a
mobile truck
with a
hopper
resulting in
no soil being
stockpiled.

## **Operational Elements**

Location	Proposed	
	Extent	
	Authorised	
Figure 1	The section	
5	of pipe to be	
	replaced is	
	approximately	
	840meters	
Location	Proposed	
	Extent	
Figure 1	Clearing no	
	more than	
	two native	
	shrubs	
	located	
	within the	
	pump	
	station site,	
	of a .84ha	
	linear	
	footprint.	
Figure 1	Dewatering	
	required for	
	project.	
	Dewatering water will be	
	discharged	
	to the local	
	Water	
	Corporation	
	Sewer or	
	carted to the	
	closed	
	waste water	
	treatment	
	plant.	
	Location Figure 1 Location Figure 1 Figure 1	

#### Proponent and/or DMA to complete

3. Acid Sulfate soil	Figure 2	a portion of excavated soil will be disposed of to landfill and import clean backfill. The remaining 866m3 soil will be treated by a mobile truck with a hopper resulting in no soil being stockpiled.

#### Written Summary

Relay 840m of DN450 PE100 class 12.5 pressure main from the West Street Wastewater Pump Station to the intersection of Fairlawn and Frederick Streets, Busselton. A section of the pipeline passes through the edge of the buffer of a Swan Coastal Plain Lakes EPP – listed Lake New River.

Environmental А construction Management Plan (CEMP) will be developed for this project. The CEMP will contain the management actions that are to be taken to ensure the project has minimal impact on the environment. This will include an Acid Sulfate Soil and Dewatering Management Plan. either Dewatering water will be transferred to sewer or carted to the nearest Water Corporation owned WWTP.

Maximum proposed ground disturbance for area within the Swan Coastal Plain Lakes EPP Lake is 0.29 ha. For whole of project, 0.84ha. Two sections will be directional drilled along the alignment. This is for the purpose of avoiding native vegetation along West street, which is located within Swan coastal the Environmental Protection Policy, to avoid excavation across two open road crossings, and to avoid open excavation across the New River. 230m of the 840m route will be completed by trenchless construction techniques.

Proponent and/or DMA to complete	
Timeframe in which the proposal is to occur (including start and finish dates where applicable).	This proposal will take approximately 4 weeks. Works are proposed to start approximately 10 <sup>th</sup> May and Finish approximately 10 <sup>th</sup> June 2016
Details of any staging of the proposal.	N/A
What is the current land use on the property, and the extent (area in hectares) of the property?	The pipeline will be constructed within road reserve. The extent of the footprint is approximately .84ha.
Have pre-referral discussions taken place with the OEPA?	Water Corporation has sought advice from Michael Pengelli on the 30 <sup>th</sup> June 2015
If yes, please provide the case number. If a case number was not provided, please state the date of the meeting and names of attendees.	
DMA (Responsible Authority) to complete	
For a proposal under an assessed scheme (as defined in <u>section 3 of the EP Act</u> , applicable only to the proponent and DMA) provide details (in an attachment) as to whether:	N/A
• The environmental issues raised by the proposal were assessed in any assessment of the assessed scheme.	
• The proposal complies with the assessed scheme and any environmental conditions in the assessed scheme.	

#### 1.3 Strategic / derived proposals

Complete this section if the proposal being referred is a strategic proposal or you are seeking the proposal to be declared a derived proposal. Note: Only a proponent may refer a strategic proposal and seek a proposal to be declared a derived proposal.

Proponent to complete	
Is this referred proposal a strategic proposal?	🗌 Yes 🛛 No
Are you seeking that this proposal be declared a derived proposal?	🗌 Yes 🛛 No
If you are seeking that this proposal be declared a derived proposal, what is the Ministerial Statement number (MS #) of the associated strategic proposal?	MS #:

### 1.4 Location

Proponents and DMAs must provide spatial data. Please refer to <u>EAG 1</u> for more detail.

Proponent, DMA and Third Party to complete	
Name of the Local Government Authority in which the proposal is located.	City of Busselton
<ul> <li>Location:</li> <li>a) street address; lot number; suburb; and nearest road intersection; or</li> <li>b) if remote the nearest town; and distance and direction from that town to the proposal site.</li> </ul>	West street and Frederick Street Busselton. Pipeline terminates at the intersection of Frederick Street and Fairlawn Street Busselton.
<ul> <li>Have maps and figures been included with the referral (consistent with EAG 1 where appropriate)?</li> <li>The types of maps and figures which need to be provided (depending on the nature of the proposal) include:</li> <li>maps showing the regional location and context of the proposal; and</li> <li>figures illustrating the proposal elements.</li> </ul>	🛛 Yes 🗌 No
Proponent and DMA to complete	
Have electronic copies of spatial data been included with the referral?	🛛 Yes 🗌 No
<b>NB:</b> Electronic spatial (GIS or CAD) data, geo-referenced and conforming to the following parameters:	
GIS: polygons representing all activities and named;	
<ul> <li>CAD: simple closed polygons representing all activities and named;</li> </ul>	
• datum: GDA94;	
<ul> <li>projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA);</li> </ul>	
<ul> <li>format: ESRI geodatabase or shapefile, MapInfo Interchange Format, Microstation or AutoCAD</li> </ul>	

## **1.5** Significance test and environmental factors

Proponent, DMA and Third Party to complete		
What are the likely significant environmental factors for this proposal?	Benthic Communities and Habitat	
	Coastal Processes	
	Marine Environmental Quality	
	Marine Fauna	
	Flora and Vegetation	
	Landforms	
	🗌 Subterranean Fauna	
	Terrestrial Environmental Quality	
	Terrestrial Fauna	
	Hydrological Processes	
	☐ Inland Waters Environmental Quality	

Proponent, DMA and Third Party to complete		
Having regard to the Significance Test (refer to Section 7 of the <i>EIA</i> <i>Administrative Procedures 2012</i> ) in what ways do you consider the proposal may have a significant effect on the environment and warrant referral to the EPA?	<ul> <li>Air Quality &amp; Atmospheric Gases</li> <li>Amenity</li> <li>Heritage</li> <li>Human Health</li> <li>Offsets</li> <li>Rehabilitation and Decommissioning</li> <li>Approximately 400m of the proposed pipe alignment runs through the edge of a swan Coastal Environmental Protection Policy (EPP)</li> <li>The proposal is adjacent but on the opposite side of a road to a nature reserve vested with the conservation commission of WA.</li> <li>Dewatering is required however, will be discharged to sewer or carted away to Wastewater Treatment Plant.</li> <li>Acid sulfate soils - A portion of excavated soil will be disposed of to landfill and import clean backfill. The remaining 866n3 soil will be treated by a mobile truck with a hopper resulting in no spoil being stockpiled</li> </ul>	

#### **1.6 Confidential information**

All information will be made publically available unless authorised for exemption under the EP Act or subject to the Freedom of Information Act 1992.

Proponent to complete	
Does the proponent request that the EPA treat any part of the referral information as confidential?	🗌 Yes 🛛 No
Ensure all confidential information is provided in a separate attachment in hard copy.	

#### 2 REGULATORY CONSIDERATIONS

This section applies to the Local, State and Commonwealth regulatory considerations for the referred proposal.

#### 2.1 Government approvals

#### 2.1.1 State or Local Government approvals

DMA to complete	
What approval(s) is (are) required from you as a	

decision-making authority?	
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	🗌 Yes 🛛 No

#### 2.1.2 Regulation of aspects of the proposal

Complete the following to the extent possible.

Proponent to complete		
Do you have legal access required for the implementation of all aspects of the proposal?		
If yes, provide details of legal access authorisations / agreements / tenure.	🛛 Yes 🗌 No	
If no, what authorisations / agreements / tenure is required and from whom?		

Outline both the existing approvals and approvals that will be / are being sought as a part of this proposal.

Proponent to complete			
Aspects* of the proposal	Type of approval	Legislation regulating this activity	Which State agency /entity regulate this activity?
Abstraction / Dewatering	Licence	RIWI Act 1914	DoW

\*e.g. mining, processing, dredging

#### 2.1.3 Commonwealth Government *Environment Protection and Biodiversity Conservation Act 1999* approvals

Refer to the <u>assessment bilateral agreement</u> between the Commonwealth of Australia and the State of Western Australia for assistance on this section.

Pro	oponent to complete				
1.	Does the proposal involve an action that may be or is a controlled action under the <i>Environment Protection and</i>	🗌 Yes 🛛 No			
	Biodiversity Conservation Act 1999 (EPBC Act)?	If no continue to Part A section 2.1.4.			
2.	What is the status of the decision on whether or not the	Proposal not yet referred			
	action is a controlled action?	Proposal referred, awaiting decision			
		Assessed – controlled action			
		Assessed – not a controlled action			
3.	If the action has been referred, when was it referred and what is the reference number (Ref #)?	Date:			
		Ref #:			
4.	If the action has been assessed, provide the decision in an attachment. Has an attachment been provided?	🗌 Yes 🗌 No			
5.	Do you request this proposal to be assessed under the bilateral agreement?	🗌 Yes 🗌 No			

Complete the following to the extent possible for the Public Comment of EPBC Act referral documentation.

Proponent to complete	
6. Have you invited the public to comment on your referral documentation?	🗌 Yes 🛛 No
7. How was the invitation published?	newspaper 🗌 website
8. Did the invitation include all of the following?	
(a) brief description of the action	🗌 Yes 🗌 No
(b) the name of the action	🗌 Yes 🗌 No
(c) the name of the proponent	🗌 Yes 🗌 No
(d) the location of the action	🗌 Yes 🗌 No
<ul> <li>(e) the matters of national environmental significance that will be or are likely to be significantly impacted</li> </ul>	🗌 Yes 🗌 No
(f) how the relevant documents may be obtained	🗌 Yes 🗌 No
(g) the deadline for public comments	🗌 Yes 🗌 No
(h) available for public comment for 14 calendar days	🗌 Yes 🗌 No
(i) the likely impacts on matters of national environmental significance	🗌 Yes 🗌 No
(j) any feasible alternatives to the proposed action	🗌 Yes 🗌 No
(k) possible mitigation measures	🗌 Yes 🗌 No
9. Were any submissions received during the public comment period?	🗌 Yes 🗌 No
10. Have public submissions been addressed? If yes provide attachment.	🗌 Yes 🗌 No

#### 2.1.4 Other Commonwealth Government Approvals

Proponent, DMA and Third Party to complete							
Is approval required from other Commonwealth Government/s for any part of the proposal?		☐ Yes ☐ No If yes, please complete the table below.					
Agency / Authority	Approval required	Applic lodg		Agency / Local Authority contact(s) for proposal			
Water Corporation	Discharge Water to Sewer	🛛 Yes	🗌 No	Water Corporation			
Water Corporation	Water Corporation CPS 185 internal clearing permit.	🗌 Yes	🖂 No	Water Corporation			

## 3. SUPPORTING INFORMATION

Please attach copies of any relevant information on the proposal, supporting evidence and / or existing environmental surveys, studies or monitoring information undertaken and list the documents below.

Propo	Proponent, DMA and Third Party to complete							
(1)	Title	Author	Document Description					
(2)	Geotechnical Investigations Preliminary Acid Sulfate Soils Assessment and Preliminary Dewatering Assessment	Golder Associates	Geotech and Acid Sulfate Soils Investigations					
(3)	Design Plans	Water Corporation	Design of Pipe Alignment					
(4)	Owner Permission	Water Corporation	Permission from City of Busscelton					
(5)	Spatial Information	Water Corporation	Shapefiles of Pipe Alignment					
(6)	Figures	Water Corporation	Site location, Acid Sulfate Soils and EPP, Pump Station Maps.					

## PART B: ENVIRONMENTAL FACTORS

The purpose of Part B is to assist the EPA to determine the significance of the likely environmental impacts of the proposal in accordance with the EPA's *Environmental Assessment Guideline for Environmental factors and objectives* (EAG 8) and *Environmental Assessment Guideline for Application of a significant framework in the EIA process* (EAG 9). Referrers completing Part B should refer closely to EAG 8 and EAG 9.

The EPA has prepared <u>Referral of a Proposal under s38 of the EP Act EAG No.16 - Appendix A</u> (Appendix A) to assist in identifying factors and completing the below table. Further guidance can be found in the guidance and policy documents cited in Appendix A under each factor.

#### How to complete Part B

For each environmental factor, that is likely to be significantly impacted by the implementation of the proposal, make a copy of the table below and insert a summary of the relevant information relating to the proposal. The table can be broken down into more than one table per factor, if the need arises. For example the hydrological processes factor can be presented in two separate tables, one for surface water and one for groundwater, or similarly one for construction and one for operations.

For complex proposals a supplementary referral report can be provided in addition to the referral form. If this option is chosen the table must still be completed (summaries are acceptable) to assist the Office of the EPA with statistical reporting and filtering proposals for processing.

Proponents expecting an API level of assessment must provide information in accordance with the EPA's *Environmental Assessment Guideline for Preparation of an API-A environmental review document* (EAG 14).

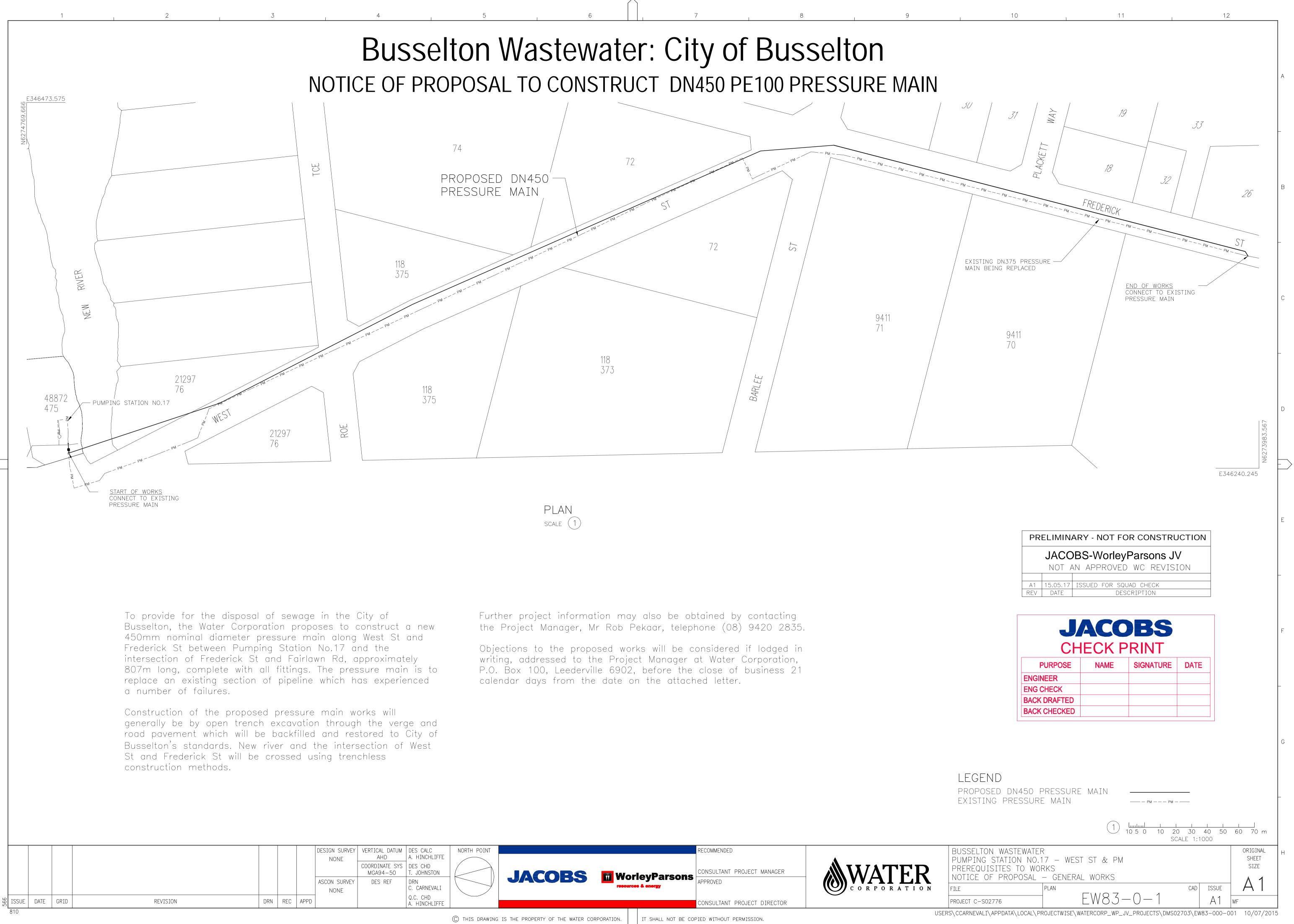
For <u>each</u> of the significant environmental factors, complete the following table (Questions 1 - 10).

Propor	nent to complete. DMA and Third Party to complete	to the best of their knowledge.
1	Factor, as defined in <u>EAG 8</u>	Inland Water Environmental Quality.
		Part of the proposal is located within a mapped Swan Coastal plain Environmental Protection Policy (EPP) and runs adjacent to a Swan Coastal Plain Conservation Category Wetland. The project site is located within mapped Acid sulfate soils area.
2	EPA Objective, as defined in <u>EAG 8</u>	To maintain the quality of groundwater and surface water, sediment and biota so that the environmental values, both ecological and social, are protected.
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	

Propo	nent to complete. DMA and Third Party to complete	to the best of their knowledge.
4	Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including:	Water Corporation does not anticipate any level of public interest in impact for this proposal.
	<ul> <li>anticipated level of public interest in the impact;</li> <li>consultation with regulatory agencies; and</li> <li>consultation with community.</li> </ul>	Water Corporation has consulted with the local shire and local residence that may be affected by the works. There was no local environmental groups identified for consultation for this proposal.
5	Baseline information - describe the relevant characteristics of the receiving environment. <i>This may include: regional context; known</i> <i>environmental values, current quality, sensitivity to</i> <i>impact, and current level of cumulative impacts.</i>	Part of the proposal is located within a mapped Swan Coastal plain Environmental Protection Policy (EPP) and runs adjacent to a Swan Coastal Plain Conservation Category Wetland. The project will be passing under the New River to connect to the Pump Station
6	Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.	The area is mapped as having Potential Acid sulfate soils. Part of the pipe alignment passes through a mapped Swan Coastal Plain EPP and is adjacent to a Swan Coastal Plain Conservation Category Wetland. if not managed correctly, the excavation of soil and dewatering could have a significant impact on these sensitive receptors.
7	<ul> <li>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</li> <li>Avoidance - avoiding the adverse environmental impact altogether;</li> <li>Minimisation - limiting the degree or magnitude of the adverse impact;</li> <li>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</li> <li>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</li> </ul>	To avoid impact to the receiving environment, water corporation has avoided any clearing besides two native vegetation that is located within the Pump station site. This site is not within the Swan coastal plain EPP or the Conservation Category Wetland. Direct drilling will be undertaken to avoid clearing and impact to the New River. Any dewatering will be Directed to the local Water Corporation Sewer or trucked off site to the nearest Wastewater treatment plant. To address the issue of Potential Acid sulfate soil, a portion of excavated soil will be removed to landfill and import clean backfill, with the remaining 866m3 to be treated by a mobile truck with a hopper resulting in no soil being stockpiled

Propo	nent to complete. DMA and Third Party to complete	to the best of their knowledge.			
8	Residual impacts – review the residual impacts against the EPA objectives.	All care has been taken to avoid significant impact for this proposal			
	It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA's objective for this factor would be met if residual impacts remain. This will require:	The proposed time for this project is approximately four weeks and the project is linear. Clearing has been avoided and only proposed where it has been deemed absolutely necessary. The dewatering and Acid Sulfate soil will be managed in such a way as			
	<ul> <li>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</li> </ul>	to avoid any potential residue impact. Given these factors, it would be considered unlikely			
	<ul> <li>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</li> </ul>	residual impacts would remain after the project has been completed.			
	<ul> <li>comparison against any established environmental policies, guidelines, and standards.</li> </ul>				
9	EPA's Objective – from your perspective and based	Meets the EPA's objective			
	on your review, which option applies to the proposal in relation to this factor? <i>Refer to EAG 9</i>	may meet the EPA's objective			
		is unlikely to meet the EPA's objective			
10	Describe any assumptions critical to your conclusion (in Question 9). <i>e.g. particular mitigation measures</i> <i>or regulatory conditions.</i>	measures have been undertaken to mitigate any impact of acid sufate soils and dewatering. Direct drilling has been undertaken to avoid impacts on the New river and to avoid clearing.			

In circumstances where there was some uncertainty on the level of significance of a particular factor it is recommended that a brief summary (no longer than 1 - 2 paragraphs) is provided on the steps taken to determine why a factor was not considered to be significant.



RTH POINT	JACOBS	WorleyParsons	RECOMMENDED CONSULTANT PROJECT MANAGER APPROVED CONSULTANT PROJECT DIRECTOR	C O R P O R A T I O N	BUSSEL PUMPIN PREREC NOTICE FILE PROJECT C
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<ul> <li>(III) TRAFFIC MANAGEMENT, THRUST BORING UNDER ROAD AND REINSTATEMENT SHALL BE CARRIED OUT TO THE REQUIREMENTS OF CITY OF BUSSELTON.</li> <li>15. NO BLASTING OF ROCK IS PERMITTED UNLESS PREVIOUSLY APPROVED BY THE WATER CORPORATION.</li> <li>4. FLANGE GASKETS SHALL BE FULL FACE 3mm TH BUTADIENE RUBBER (NBR) FOR FLANGE SIZES U INCLUDING ON 300 AND COMPRESSED FIBRE GAS ELSEWHERE.</li> <li>5. DAMAGE TO PIPE CEMENT LINING WORK SHALL IN ACCORDANCE WITH THE PIPE WANUFACTURER REPAIR SPECIFICATION.</li> <li>6. WHERE SINTAKOTE IS USED TO FABRICATE BUR: EXPOSED PIPE FITTINGS, THE SHOP COATING ON PIPE SHALL BE STEPPED BACK SOMM (MN.) LOCATIONS. THE STRIPPED AREAS SHALL BE CO. WELDING WITH A PLASTIC DACKED MODIFIED BUR ADDRESSED FIDE FITTINGS, THE SHOP COATING ON PIPE SHALL BE STRIPPED BACKED MODIFIED BUR ACCORDANCE WITH THE MANUFACTURER REPAIR SPECIFICATION.</li> <li>6. WHERE SINTAKOTE IS USED TO FABRICATE BUR: EXPOSED PIPE STRIPPED BACKED SOMM (MN.) LOCATIONS. THE STRIPPED BACKED MODIFIED BUR ADDRESSED SHALL BE STRIPPED BACKED MODIFIED BUR ADDRESS SHALL BE STRIPPED BACKED MODIFIED BUR ACCORDANCE WITH THE MANUFACTURER'S RECOM THE PIPE WARPING SHALL OVERLAP THE PAREL COATING A MINIMUM OF 150mm.</li> <li>7. BURIED AND EXPOSED PIPE FITTINGS THA CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE STREM LBE COATING AND BUDGATED MSCL PIPES WITH WATE SPECIFICATION L1 (REFER DASS).</li> <li>8. SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWEN</li> </ul>	ÌMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE	3. FLANGES SHALL BE TO AS 4087 CLASS 16. FL
<ul> <li>15. NO BLASTING OF ROCK IS PERMITTED UNLESS PREVIOUSLY APPROVED BY THE WATER CORPORATION.</li> <li>4. FLANGE GASKETS SHALL BE FULL FACE 3mm TH BUTADIENE RUBBER (NBR) FOR FLANGE SIZES U INCLUDING N0300 AND COMPRESSED FIBRE GAS ELSEWHERE.</li> <li>5. DAWAGE TO PIPE CEMENT LINING WORK SHALL IN ACCORDANCE WITH THE PIPE MANUFACTURER REPAIR SPECIFICATION.</li> <li>6. WHERE SINTAKOTE IS USED TO FABRICATE BUR EXPOSED PIPE FITTINGS, THE SHOP COATING O PIPE SHALL BE STRIPPED ARCK 50mm (MIN.) I LOCATIONS. THE STRIPPED ARCK 50mm (MIN.) I MIN ARCK 50mm (MIN.) I LOCATIONS. THE STRIPPED ARCK 50mm (MIN.) I LOCATIONS. STRIPPED ARCK 50mm (MIN.) I LOCATIONS AND SINTAKOTE INGS THAT CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE SHALL BE EXTERNALLY COATED WRAPPING SYSTEM THAT COMPLES WITH WATE SPECIFICATION L1 (REFER DSS6).</li> <li>SITE WELDED AND VINCOATED MSCL PIPEWON</li></ul>	REINSTATEMENT SHALL BE CARRIED OUT TO THE REQUIREMENTS	PIPE FITTING CENTRELINE. FLANGES SHALL BE FULL FACE GASKET. ALL FLANGES SHALL BE GIV REMOVABLE PROTECTIVE COATING AFTER MACHIN
IN ACCORDANCE WITH THE PIPE MANUFACTURER REPAIR SPECIFICATION. 6. WHERE SINTAKOTE IS USED TO FABRICATE BUR: EXPOSED PIPE FITTINGS, THE SHOP COATING O PIPE SHALL BE STRIPPED AREAS SHALL BE CO. WELDING WITH A PLASTIC BACKED MODIFIED BI ADHESIVE TAPE SYSTEM, DENSO OR APPROVED E ACCORDANCE WITH THE MANUFACTURER'S RECOM THE PIPE WRAPPING SHALL OVERLAP THE PAREI COATING A MINIMUM OF 150mm. 7. BURIED AND EXPOSED PIPE FITTINGS THAT CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE SHALL BE EXTERNALLY COATED WRAPPING SYSTEM THAT COMPLIES WITH WATE SPECIFICATION L1 (REFER DS95). 8. SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWC	15. NO BLASTING OF ROCK IS PERMITTED UNLESS PREVIOUSLY	4. FLANGE GASKETS SHALL BE FULL FACE 3mm TH BUTADIENE RUBBER (NBR) FOR FLANGE SIZES U INCLUDING DN300 AND COMPRESSED FIBRE GAS ELSEWHERE.
<ol> <li>WHERE SINTAKOTE IS USED TO FABRICATE BUR: EXPOSED PIPE FITTINGS, THE SHOP COATING O PIPE SHALL BE STRIPPED BACK 50mm (MIN.) I LOCATIONS. THE STRIPPED AREAS SHALL BE CO. WELDING WITH A PLASTIC BACKED MODIFIED BI ADHESIVE TAPE SYSTEM, DENSO OR APPROVED E ACCORDANCE WITH THE MANUFACTURER'S RECOM THE PIPE WRAPPING SHALL OVERLAP THE PAREI COATING A MINIMUM OF 150mm.</li> <li>BURIED AND EXPOSED PIPE FITTINGS THAT CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE SHALL BE EXTERNALLY COATED WRAPPING SYSTEM THAT COMPLIES WITH WATE SPECIFICATION L1 (REFER DS95).</li> <li>SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWO</li> </ol>		5. DAMAGE TO PIPE CEMENT LINING WORK SHALL IN ACCORDANCE WITH THE PIPE MANUFACTURER REPAIR SPECIFICATION.
<ol> <li>BURIED AND EXPOSED PIPE FITTINGS THAT CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE SHALL BE EXTERNALLY COATED WRAPPING SYSTEM THAT COMPLIES WITH WATE SPECIFICATION L1 (REFER DS95).</li> <li>SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWOOD</li> </ol>		6. WHERE SINTAKOTE IS USED TO FABRICATE BURI EXPOSED PIPE FITTINGS, THE SHOP COATING O PIPE SHALL BE STRIPPED BACK 50mm (MIN.) F LOCATIONS. THE STRIPPED AREAS SHALL BE CO/ WELDING WITH A PLASTIC BACKED MODIFIED BU ADHESIVE TAPE SYSTEM, DENSO OR APPROVED E ACCORDANCE WITH THE MANUFACTURER'S RECOM THE PIPE WRAPPING SHALL OVERLAP THE PAREN
8. SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWO		7. BURIED AND EXPOSED PIPE FITTINGS THAT CAN PRACTICALLY FABRICATED (SUCH AS BENDS AND SINTAKOTE PIPE SHALL BE EXTERNALLY COATED WRAPPING SYSTEM THAT COMPLIES WITH WATED
		8. SITE WELDED AND FLANGED JOINTS, SINTAKOTE DAMAGED COATING AND UNCOATED MSCL PIPEWO PROTECTED BY THE SAME WRAPPING SYSTEM SP
		DESIGN SURVEY VERTICAL DATUM DES CALC NORTH P

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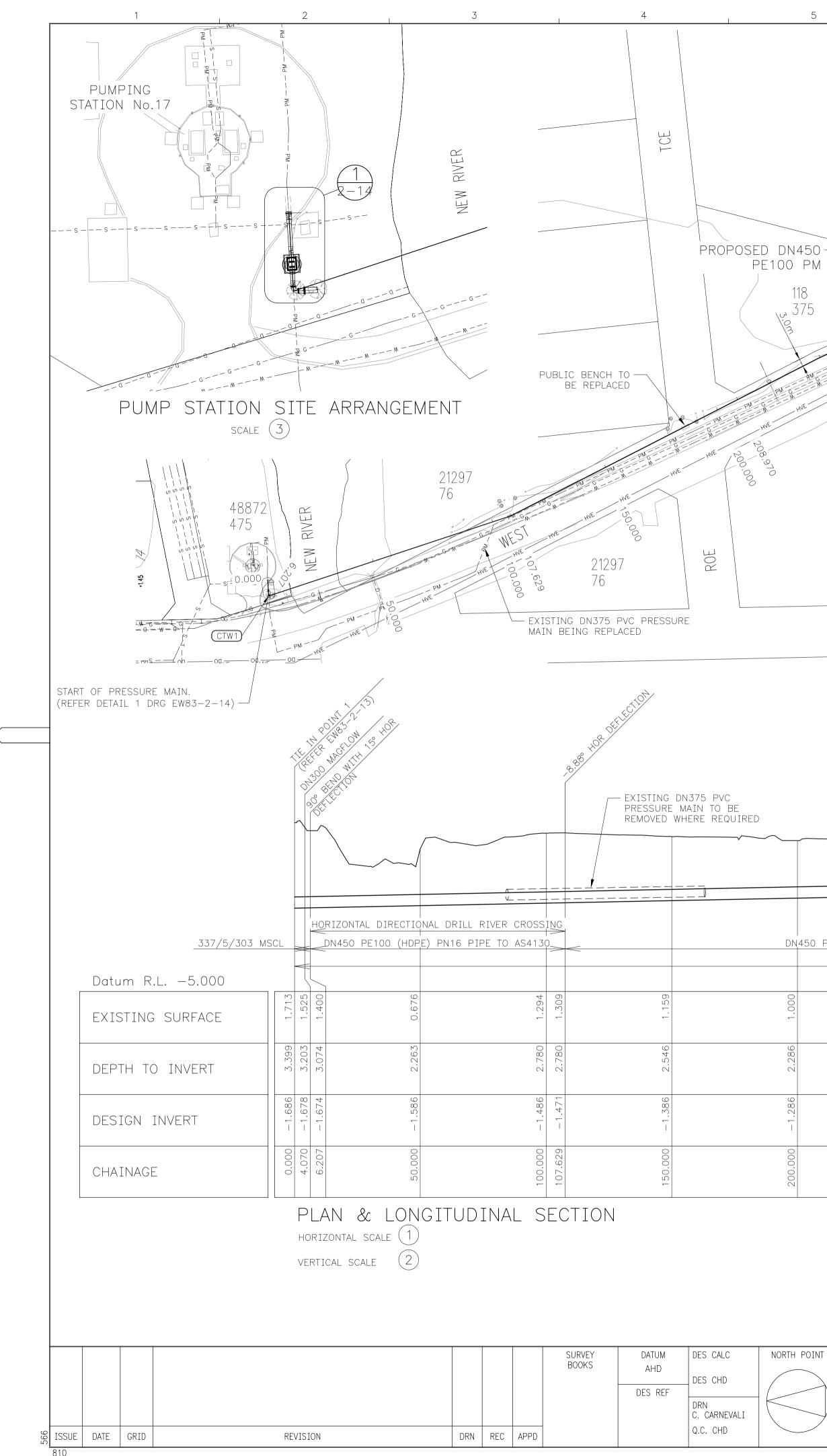
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	TOLERANCE NOTES		IPE ALIGNMENT & BEND pressure main refer to drg ew		
AVE BEEN DESIGNED <sup>F</sup> 1200kPa.	1. HORIZONTAL AND VERTICAL DEFLECTION LIMITS ON PE100 PIPE SHALL BE ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.	CHAINAGE COORDIN	PLAN AND LONGITUDINAL SECTION		
CCORDANCE WITH DUCTS	2. INVERT LEVELS SHOWN ON LONGITUDINAL SECTIONS ARE TO BE ADHERED TO UNLESS ON-SITE CONDITIONS DETERMINE THAT COVER AND/OR GRADE CAN NOT BE ACHIEVED. CHANGES REQUIRE THE APPROVAL OF THE SUPERINTENDENT.	– EASTING	NORTHING		
ACCORDANCE WITH Mmendations and	3. UNLESS NOTED, ALIGNMENTS SHOW FOR BURIED SERVICES ARE INDICATIVE ONLY. ALL RELEVANT AUTHORITIES ARE TO BE				
E TO AS 2280 AND ERNALLY AND	CONTACTED PRIOR TO COMMENCING THE WORKS TO DETERMINE THE EXACT LOCATION AND METHOD OF PROTECTION AND REINSTATEMENT OF EXISTING SERVICES AND UTILITIES.				
IS TO BE DRDANCE WITH THE	4. SERVICE INVERT LEVELS SHOWN ON LONGITUDINAL SECTIONS ARE ASSUMED LEVELS BASED ON MINIMUM COVER AS STATED IN THE "UTILITY PROVIDERS CODE OF PRACTICE FOR WESTERN AUSTRALIA" UNLESS OTHERWISE OTHERWISE NOTED.				
TO BE PERFORMED RS EXPENSE.					
ACKFILL DETAILS IFICATION. THE CHES ARE STABLE	PIPE COVER NOTES				
'ING EW83—2—15, )rawing	<ol> <li>PIPE TO BE LAID WITH MINIMUM FINISHED COVER OF 900mm.</li> <li>WHERE DISTRIBUTION MAINS ETC CROSS OTHER PIPELINES OR UTILITIES, THE VERTICAL CLEARANCE SHALL BE 150mm FOR</li> </ol>				
DICATE PIPE 500m AND AT 5CATIONS. FOR FER TO WATER	DN300 AND SMALLER PIPELINES AND 300mm FOR DN400 AND Larger pipelines.				
1. MARKER POSTS Et of 800mm FROM	DRAWING LIST Notice of proposal – general works ew83–0–1				
GED WHERE NOTED. Sting water mains.	SETOUT POINTS, LEGEND & GENERAL NOTESEW83-2-11PLAN & LONGITUDINAL SECTION - SHEET 1 OF 2EW83-2-12PLAN & LONGITUDINAL SECTION - SHEET 2 OF 2EW83-2-13CONNECTION MAGFLOW & TRENCHING DETAILSEW83-2-14AIR VALVE ARRANGEMENT AND DETAILSEW83-2-15SCOUR ARRANGEMENT AND DETAILSEW83-2-16	1 2 3 4 5			
TES	LEGEND				
130.	PROPOSED SEWER PRESSURE MAIN				
ITH AS 2566.	SCOUR POINT				
BE FUSION .). IN ACCORDANCE	AIR RELEASE POINT EXISTING GAS – BELOW GROUND –– g –– g –– g –– g –– EXISTING SEWER PRESSURE MAIN –– pm – –– pm – –– pm – ––				
NGED DUCTILE	EXISTING SEWER GRAVITY MAINssss OVERHEAD LV POWER AND POLE				
ES TO AS 4129 Specification to construction. 30xod	TELSTRA OR NBN CO FIBRE OPTIC				
ORPORATION REFER TO MESB ITH AS4041 CLASS					
I SHALL COMPLY					
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CHINING. Thick nitrile ES UP TO AND GASKETS				JACO	BS
LL BE REPAIRED Rers printed				PURPOSE NAME S	INT IGNATURE DATE
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CANNOT BE AND TEES) USING TED WITH A TAPE				PRELIMINARY - NOT FOR	
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OTE PIPE WITH PEWORK SHALL BE I SPECIFIED ABOVE.				A1 15.05.17 ISSUED FOR SQUAD REV DATE DESCRI	
TH POINT	RECOMMENDED		BUSSELTON WASTEWATER		ORIGI
		<b>WATER</b>	PUMPING STATION NO.17 DN450 PRESSURE MAIN	REPLACEMENT	SHEE
JACOB	S WorleyParsons resources & energy	C O R P O R A T I O N	SETOUT POINTS, LEGEND	& GENERAL NOTES	CAD ISSUE A
	CONSULTANT PROJECT DIRECTOR		PROJECT C-S02776	EW83-2-11	A1 MF

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CONSULTANT PROJECT DIRECTOR

USERS\CCARNEVAL

							l I
BUSSELTON WASTEWATER							Н
PUMPING STATION NO.17 - WEST ST & PM						SHEET	
DN450 PRESSURE MAIN	REPLACEN	MENT				SIZE	
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# PRELIMINARY - NO

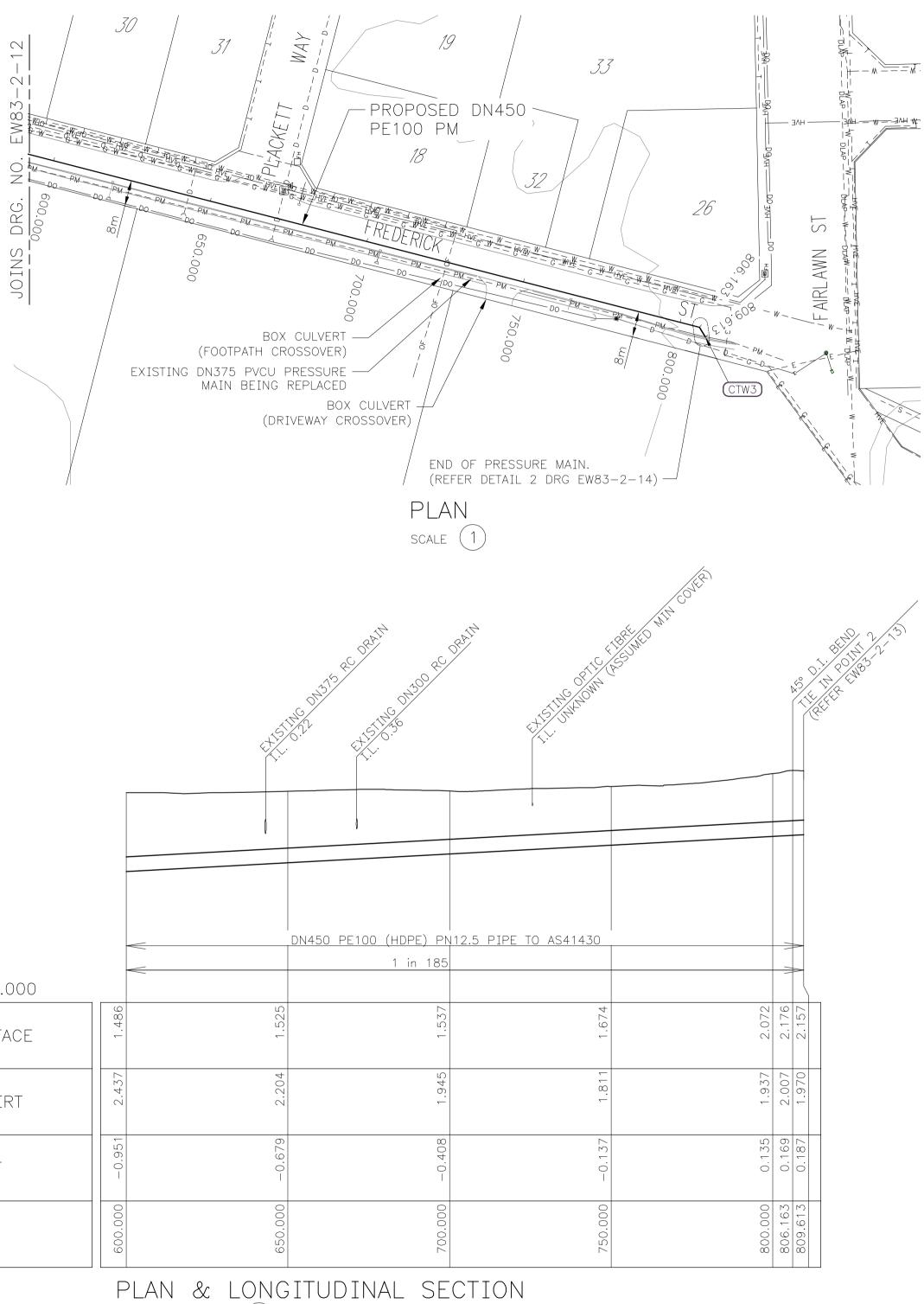
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A1 15.07.15 ISSUED FOR REV DATE

NT		RECOMMENDED		
			C O R P O R A T I O N	BUSSE PUMPI DN450 PLAN
$\nearrow$	resources a energy		CORPORATION	FILE
		CONSULTANT PROJECT DIRECTOR		PROJECT (

USERS\CCARNE<sup>v</sup>

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000.009 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LEGEND PROPOSED SEWER PRESSURE MAIN PROPOSED SCOUR VALVE PROPOSED AIR VALVE EXISTING SEWER PRESSURE MAIN EXISTING SEWER GRAVITY MAIN OVERHEAD LV POWER AND POLE COUNCIL STORMWATER DRAINS WATER SUPPLY RETICULATION MAI TELSTRA COMMUNICATIONS CABLES UNDERGROUND LV POWER UNDERGROUND HV POWER TREE NOTES	A $PMPMPMPMPMPMPMPMPMPMPM$
	ONLY. THE EXACT LOCATION ONLY. THE EXACT LOCATION ONLY. THE EXACT LOCATION OF CONFIRMED PRIOR TO EXCAVA 2. HORIZONTAL AND VERTICAL DIACCORDANCE WITH THE MANU ACCORDANCE WITH THE MANU DEFLECTIONS BEYOND THE MA ACHIEVED THROUGH MULTIPLE	EFLECTION LIMITS ON PIPE SHALL BE IN FACTURERS SPECIFICATIONS. NUFACTURER'S LIMITS ARE TO BE PIPE LENGTHS. ATED FITTINGS HAVE BEEN DESIGNED FOR
	<ul> <li>PRIOR TO BACKFILLING, IN A REQUIREMENTS.</li> <li>5. MARKER POSTS SHALL BE INSHORIZONTAL ALIGNMENT CHAN POSTS SHALL BE POSITIONED THE PIPE CENTERLINE.</li> </ul>	STALLED ALONG PIPE ALIGNMENT AT IGES AND VALVE LOCATIONS. MARKER AT NOMINAL OFFSET OF 800mm FROM O IN ACCORDANCE WITH AS2566 AND RAL NOTES EW83-2-11
A WATER VOLTAGE	CONNECTION MAGFLOW & TRENCH AIR VALVE ARRANGEMENT & DETA SCOUR ARRANGEMENT & DETAILS CLEARANCE TO REQUIRED FROM WATER CTW No. SERVICE – L CTW1 DN375 PVC PRESS	ING DETAILS ILS W83-2-14 EW83-2-15 EW83-2-16 WORKS CORPORATION
	JANK .	STATH ONE CALL SYSTEM
ST ST	NS DRG No. EW83-2-	EXACT LOCATION OF UNDERGROUND SERVICES TO BE CONFIRMED PRIOR TO COMMENCEMENT OF EXCAVATION
) ÀS4130 PN12.5 n 500	D PE100 (HDPE) PIPE TO AS4130 1 in 185 0 0 0 0 0 1 0 1 1 1 A C T 0 1 1 1 1 1 1 1 1 1 1 1 1 1	LL SETOUT DIMENSIONS SHOWN ARE OFFSET FROM CADASTRAL BOUNDARY O PIPE CENTRELINE
2.546 1.322 2.605 1.355 2.551 1.375	2.437 1.48	WARNING F UNDERGROUND POWER IN THE VICINITY WARNING MAJOR TELSTRA CONDUITS IN THE VICINITY
35.138 -1.224 45.000 -1.250 50.000 -1.176	600.000 - 0.951	WARNING !!! OPTIC FIBRE CONDUITS IN THE VICINITY
OT FOR CONST OT FOR CONST OrleyParsons ROVED WC REV	<b>RUCTION</b> 1       Imminul 10 5 0 <b>JV</b> 2       Imminul 1 0.5 0         ISION       3       Imminul 1 0.5 0	G 10 20 30 40 50 60 70 m SCALE 1:1000 1 2 3 4 5 6 7 m SCALE 1:100 2 1 0 5 10 m SCALE 1:200
C-S02776	D. 17 – WEST ST AND PM IN REPLACEMENT NAL SECTION – SHEET 1 C PLAN EW83-2-	
EVALI\APPDATA\LOCAL`	PROJECTWISE\WATERCORP_WP_JV_PRO	DJECTS\DMS02703\EW83-002-012 13/05/2015



Datum R.L5.000	
EXISTING SURFACE	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
DEPTH TO INVERT	2.437
DESIGN INVERT	-0.951 -0.670
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	PLAN & LON HORIZONTAL SCALE (1)
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								SURVEY	DATUM	DES CALC	NORTH POINT
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## **JACO** CHECK P NAME PURPOSE ENGINEER **ENG CHECK** BACK DRAFTED BACK CHECKED

## PRELIMINARY - NOT

JACOBS-Worl NOT AN APPRO' A1 15.07.15 ISSUED FOR REV DATE

		RECOMMENDED	
JACOBS		CONSULTANT PROJECT MANAGER	
JALUDS	WorleyParsons	APPROVED	
		CONSULTANT PROJECT DIRECTOR	

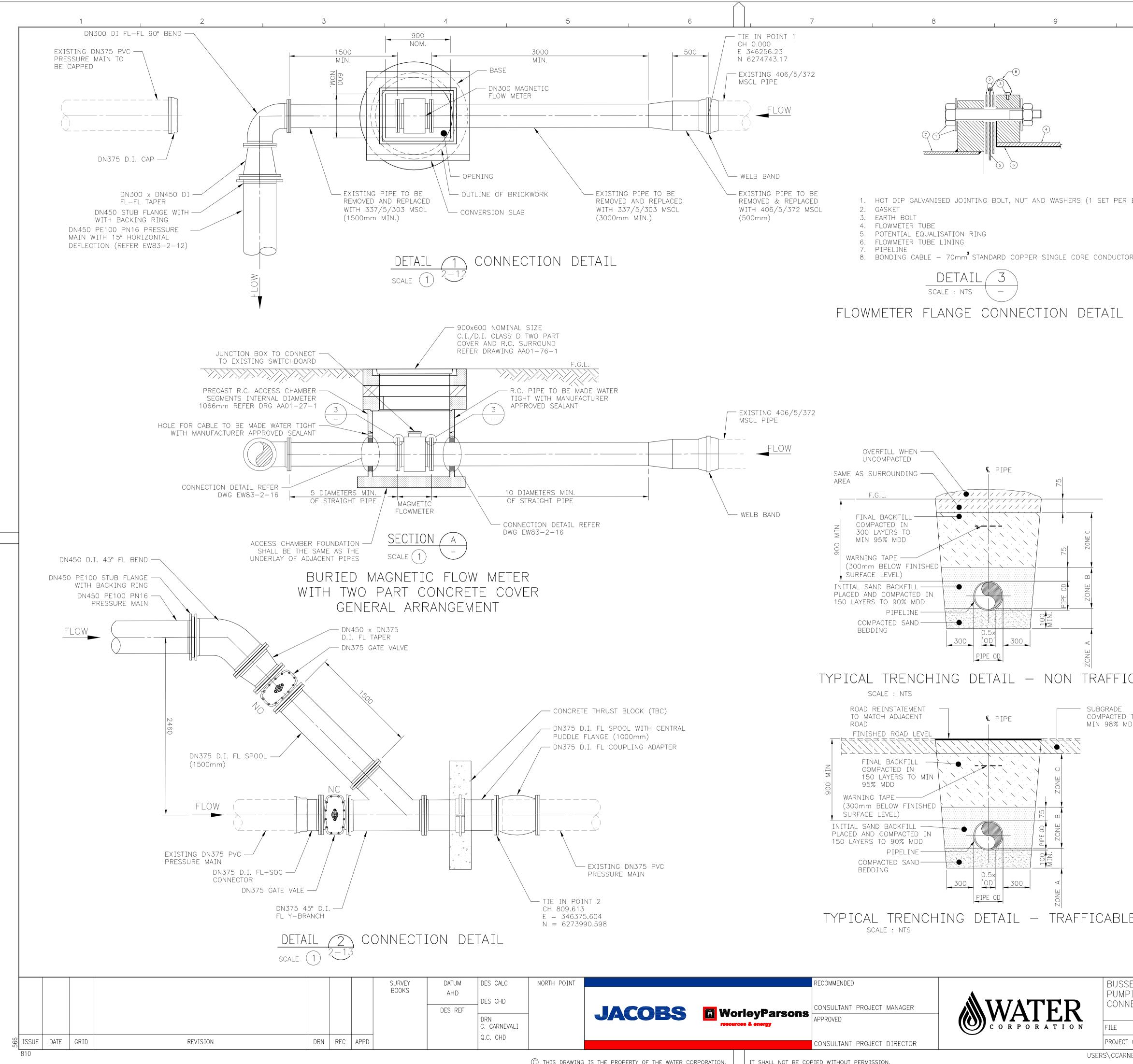


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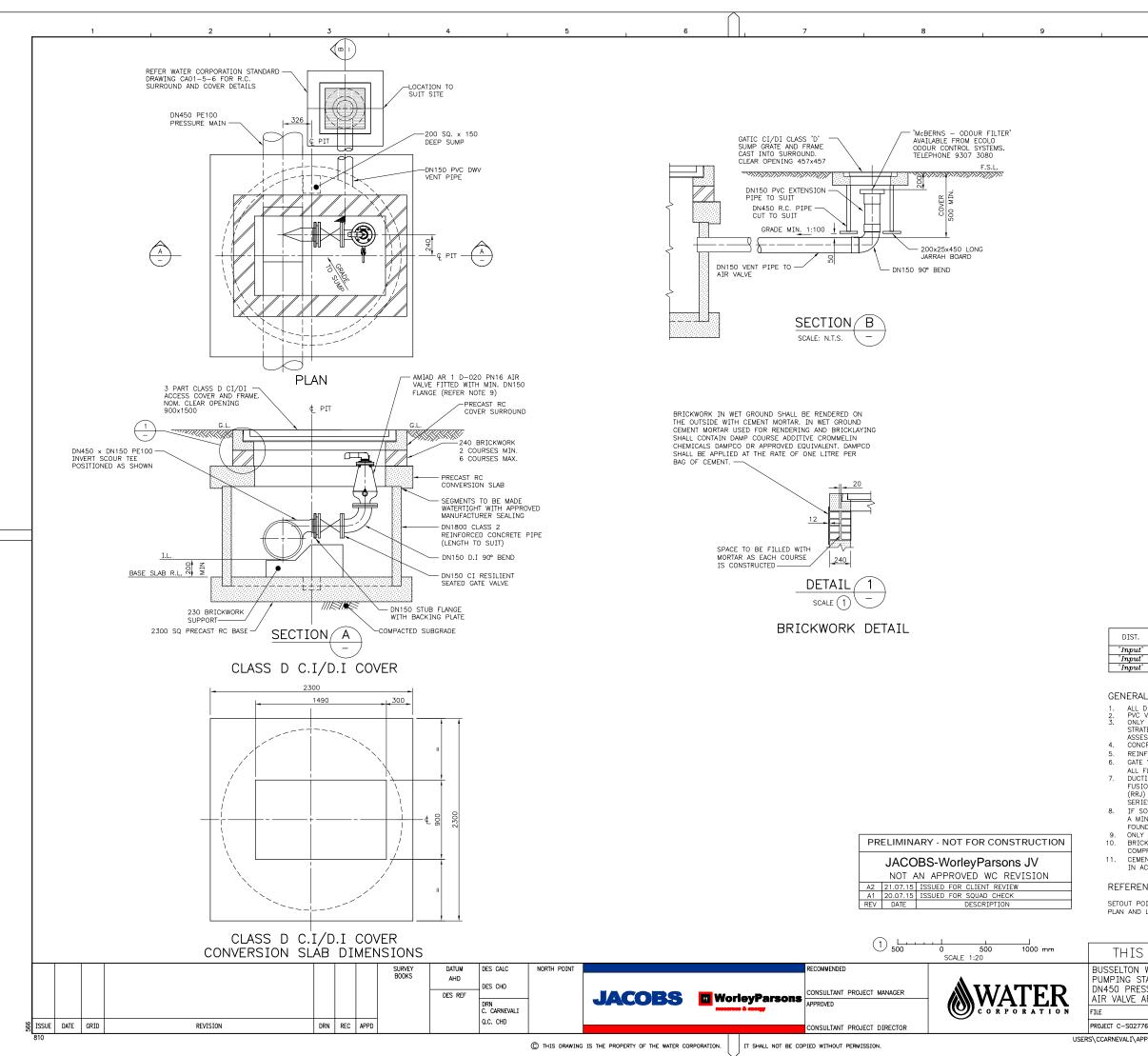
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	EXISTING SEWER GRAVITY OVERHEAD LV POWER AND COUNCIL STORMWATER DR.	POLE —	S S S S	_	
	WATER SUPPLY RETICULAT TELSTRA COMMUNICATIONS	ION MAIN w-	w w w w w w w w w w w	_	
	UNDERGROUND LV POWER UNDERGROUND HV POWER	— — E —	- — — E — — — E — — — E —		_
	OPTIC FIBRE TREE		OF — — — OF — — OF — —		
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	1. THE EXISTING SERVIC				В
	CONFIRMED PRIOR TO	EXCAVATION BY	THE CONTRACTOR.		
	2. HORIZONTAL AND VER ACCORDANCE WITH TH DEFLECTIONS BEYOND ACHIEVED THROUGH M	E MANUFACTURER THE MANUFACTUR	S SPECIFICATIONS RER'S LIMITS ARE		_
	3. THE PRESSURE MAIN A MAXIMUM HYDROSTA			DESIGNED FOR	
	4. PIPEWORK 'AS CONST PRIOR TO BACKFILLIN REQUIREMENTS.			ECORDED	
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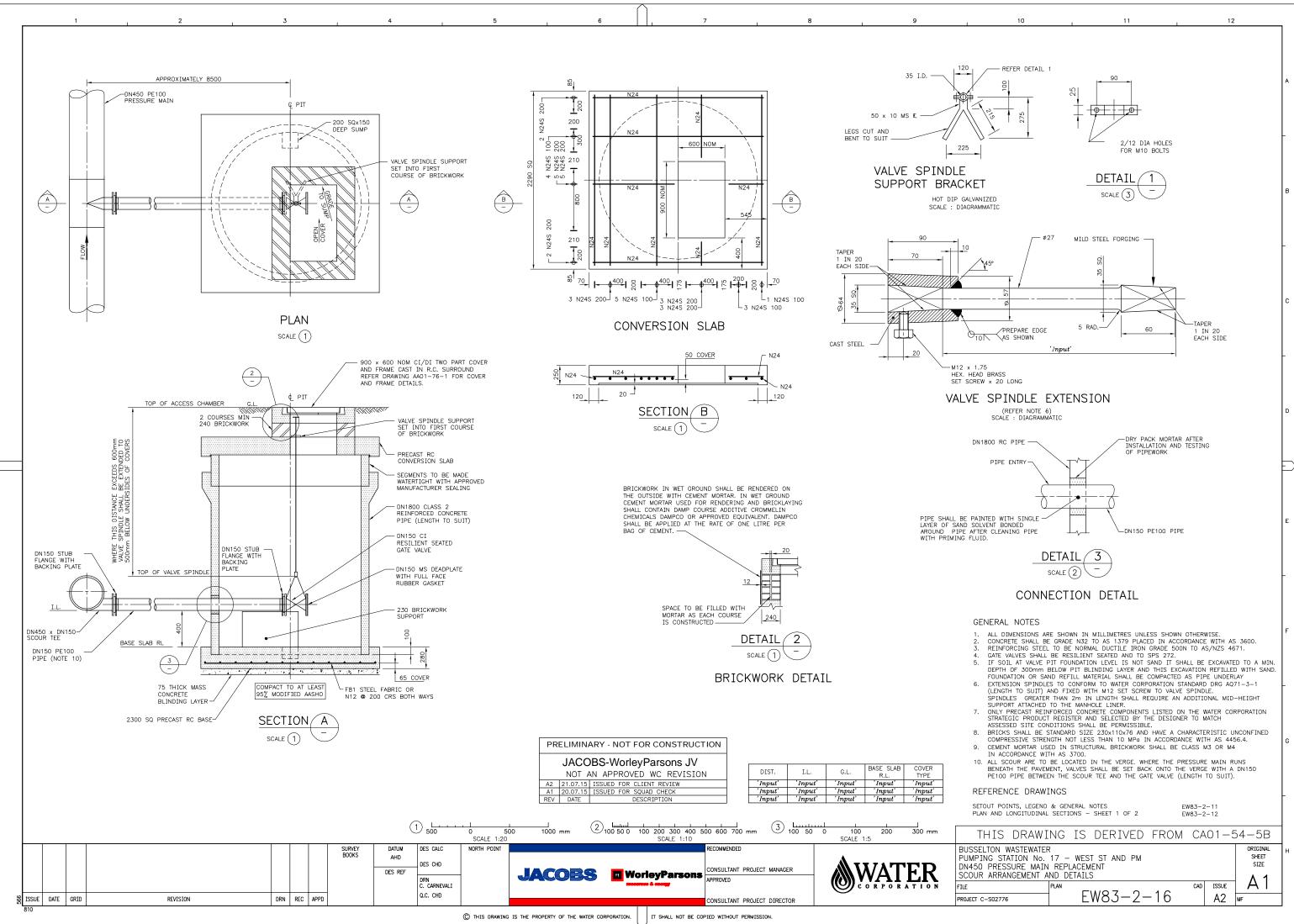
 $\bigcirc$  THIS DRAWING IS THE PROPERTY OF THE WATER CORPORATION. IT SHALL NOT BE COPIED WITHOUT PERMISSION.

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	<ul> <li>NOTE:</li> <li>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.</li> <li>INVERT LEVELS ARE AS PER PLAN AND LONGITUDINAL SECTION DRAWINGS EW83-2-12 TO EW83-2-13.</li> <li>CONCRETE SHALL BE GRADE N25 TO AS 1379 PLACED IN ACCORDANCE WITH AS 3600.</li> <li>BEDDING AND BACKFILL WORK: <ul> <li>a) DRY TRENCH CONDITIONS: UNDERLAY SHALL BE UNDISTURBED NATURAL SAND OR COMPACTED NATURAL SAND FREE FROM ROCK OR OTHER HARD OR SHARP OBJECTS THAT WOULD BE RETAINED ON A 13.2mm TEST SIEVE AND SHALL APPLY WHEN TRENCH BOTTOM IS FREE FROM STANDING OR RUNNING WATER.</li> <li>b) WET TRENCH CONDITIONS: UNDERLAY SHALL BE 14mm NOMINAL SIZE COARSE AGGREGATE</li> </ul> </li> </ul>	А
BOLT HOLE) R	<ul> <li>UNIFORMLY GRADED TO AS 2758.1 AND SHALL APPLY WHEN TRENCH BOTTOM IS STABLE BUT NOT FREE FROM STANDING OR RUNNING WATER.</li> <li>c) UNDERLAY SHALL BE COMPACTED BY MEANS OF AT LEAST 4 PASSES OF A 50kg MINIMUM STATIC WEIGHT VIBRATORY PLATE COMPACTOR OR AS DIRECTED.</li> <li>d) OVERLAY AND BACKFILL SHALL BE UNIFORMLY COMPACTED IN LAYERS OF 300mm TO A MINIMUM COMPACTION STANDARD OF 7 BLOWS PER 300mm AS MEASURED WITH A STANDARD PERTH PENETROMETER UNLESS OTHERWISE DIRECTED.</li> <li>7. VALVE ANNOTATIONS: NO - NORMALLY OPEN NC - NORMALLY OPEN NC - NORMALLY CLOSED</li> <li>CORROSION PROTECTION:</li> <li>1. MAGNETIC FLOW METER AND FLANGES TO BE COMPLETELY WRAPPED WITH 1. BUTYL MASTIC TAPE AND PVC OVERWRAP</li> <li>FLOW METER INSTALLATION:</li> <li>2. ONLY PRECAST REINFORCED CONCRETE SYSTEMS LISTED ON THE WATER CORPORATION STRATEGIC PRODUCT REGISTER AND SELECTED BY THE DESIGNER TO MATCH ASSESSED SITE CONDITIONS SHALL BE PERMISSIBLE.</li> <li>3. ALL BOLTS TO BE HOT DIP GALVANISED TO AS1214-1983.</li> </ul>	- B
	<ol> <li>BOLT TORQUE SETTINGS AND TIGHTENING SEQUENCE TO MANUFACTURERS SPECIFICATIONS</li> <li>CHECK FLANGE BOLT HOLES AND FACES FOR BURRS PRIOR TO</li> </ol>	C
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E	PRELIMINARY - NOT FOR CONSTRUCTION         JACOBS-WorleyParsons JV         NOT AN APPROVED WC REVISION         A1       15.05.17       ISSUED FOR SQUAD CHECK         REV       DATE       DESCRIPTION	G
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ECTION, MAC	EWATER N NO. 17 - WEST ST AND PM SFLOW AND TRENCHING DETAILS PLAN EW83-2-14 CAD ISSUE A1 MF .OCAL\PROJECTWISE\WATERCORP_WP_JV_PROJECTS\DMS02703\EW83-002-012 13/05/2015	Н

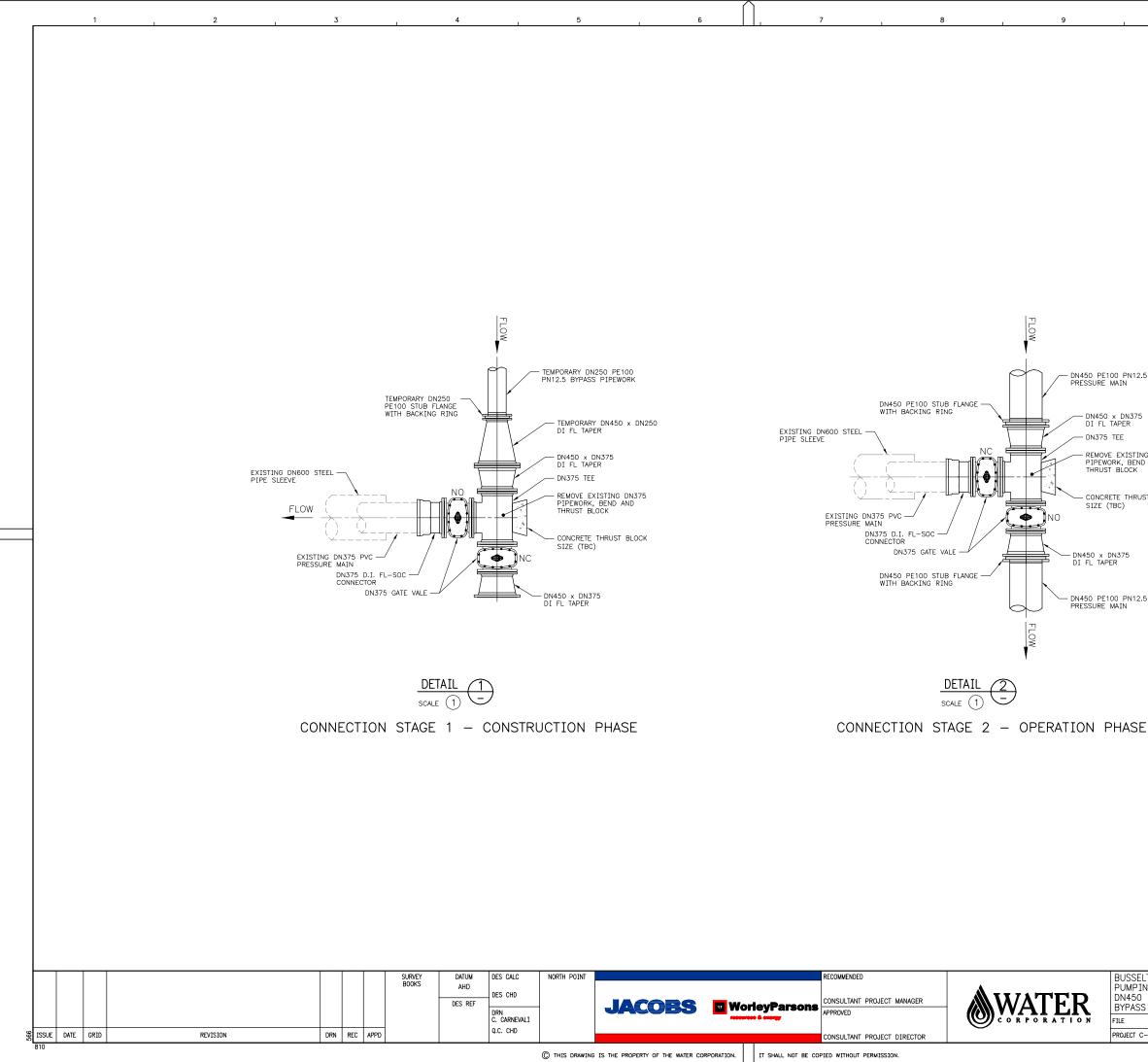


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GENERAL NOTES ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE. PVC VENT PIPE SHALL BE SNB PLAIN UPVC TO AS/NZS 1260. ONLY PRECAST REINFORCED CONCRETE COMPONENTS LISTED ON THE WATER CORPORATION STRATEGIC PRODUCT REGISTER AND SELECTED BY THE DESIGNER TO MATCH ASSESSED SITE CONDITIONS SHALL BE PERMISSIBLE. CONCRETE SHALL BE GRADE N32 TO AS 1379 PLACED IN ACCORDANCE WITH AS 3600. DELINFORMUL STEFL REINFORCING STEEL TO BE NORMAL DUCTILE GRADE 500N TO AS/NZS 4671. REINFORCING SIELL TO BE NORMAL DUCILLE GRADE SOUN TO AS/N28 467 GATE VALVES SHALL BE TO SPS 272 AND RESILIENT SEATED. ALL FLANGES AND FLANGE DRILLING SHALL COMPLY WITH AS 4087 PN16. DUCILLE IRON PIPE FITTINGS SHALL BE TO AS 2280 AND SHALL BE FUSION BONDED NYLON COATED INTERNALLY AND EXTERNALLY. SOCKETED (RRJ) D.I. PRESSURE MAIN FITTINGS SHALL MATCH THE AS/N2S 1477 SERIES 2 PVC PIPE DIAMETER, EXCEPT WHERE OTHERWISE SHOWN. SERIES 2 PVC PIPE DIAMETER, EXCEPT WHERE OTHERWISE SHOWN.
8. IF SOIL AT VALVE PIT FOUNDATION LEVEL IS NOT SAND IT SHALL BE EXCAVATED TO A MIN. DEPTH OF 300mm BELOW PIT AND THIS EXCAVATION REFILLED WITH SAND. FOUNDATION OR SAND REFILL MATERIAL SHALL BE COMPACTED AS PIPE UNDERLAY
9. ONLY AIR VALVES AUTHORISED BY THE WATER CORPORATION SHALL BE USED.
10. BRICKS SHALL BE STANDARD SIZE 230x110x76 AND HAVE A CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH NOT LESS THAN 10MPa IN ACCORDANCE WITH AS 4456.4.
11. CEMENT MORTAR USED IN STRUCTURAL BRICKWORK SHALL BE CLASS M3 OR M4 IN ACCORDANCE WITH AS 3700. REFERENCE DRAWINGS SETOUT POINTS, LEGEND & GENERAL NOTES EW83-2-11 PLAN AND LONGITUDINAL SECTIONS - SHEET 1 OF 2 EW83-2-12 THIS DRAWING IS DERIVED FROM CA01-52-3B BUSSELTON WASTEWATER ORIGINAL SHEET DUMPING STATION NO. 17 – WEST ST AND PM DN450 PRESSURE MAIN REPLACEMENT SIZE AIR VALVE ARRANGEMENT AND DETAILS A 1 CAD ISSUE EW83-2-15 A2 USERS\CCARNEVALI\APPDATA\LOCAL\PROJECTWISE\WATERCORP\_WP\_JV\_PROJECTS\DMS02703\EW83-002-012 13/05/2015







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#### **Elle Stewart**

From:	Carole Armstrong
Sent:	Thursday, 5 November 2015 3:19 PM
То:	'Graeme.Jones@busselton.wa.gov.au'
Subject:	Request Land Owner Permission Busselton West street Project

Hi Graeme,

As previously discussed, the Water Corporation is required to construct 840m of DN 450 PE100 class 12.5 pressure main pipe, form the West street Pump Station, to just before the intersection of Frederick street and Fairlawn St in Busselton. The location is depicted in the attached figure. The Shire of Busselton has been identified as the landowner and in accordance with Water Corporation's environmental approvals process it is a requirement to seek landowner consent to undertake works.

The construction is required to address a series of leaks/bursts incidents that have occurred along this section of the pressure main.

The Corporation respectfully requests the Shire respond to this email with consent to undertake the aforementioned works as soon as possible, to enable further application for approvals to be submitted.

Please don't hesitate to contact me if you have any questions.

Kind Regards

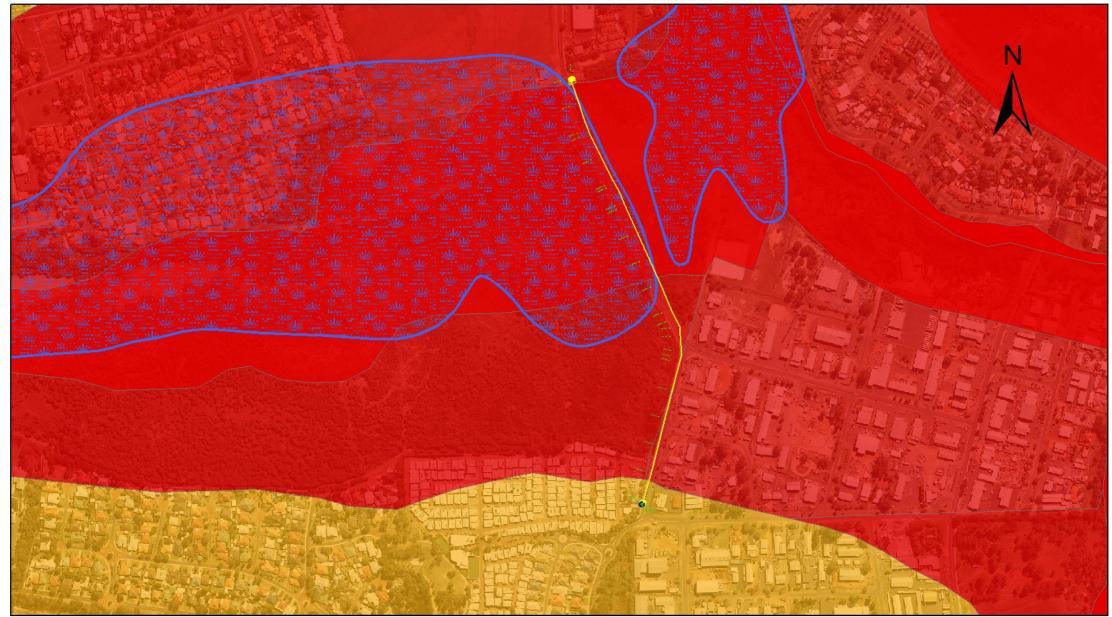
Carole

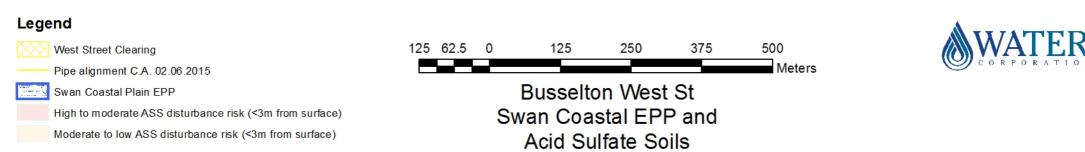


**Carole Armstrong** Environmental Scientist Environmental Impact Assessment Safety Environment and Aboriginal Affairs Branch

Need assistance? – request form

Water Corporation T: (08) 9420 3562 | F: (08) 9420 3158 629 Newcastle Street, Leederville, WA 6007 PO Box 100, Leederville, WA 6902 www.watercorporation.com.au [Error : unloaded OLE object or mail attachment]









Project Location





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Busselton West St Pump Statioin Location

