#### PLAN 1

#### **PLANNING APPLICATION PLN-18-0171**

78 DRUMMOND STREET AND ROAD RESERVE BETWEEN DRUMMOND STREET & NORFOLK STREET, PERTH

#### **ATTACHMENTS**

- A Application & plans
- B Responses from referral agencies
- **C** Representations
- D Norfolk Street Park Concept Plan

#### PLANNING APPLICATION

Proposal

Description of proposal: REMONE TREES IN FLOOD ZONE
AND REALIGN WATERWAY FROM PHILLIPST TO
AND REALIGN WATERWAY, FROM PHILLIPST TO DEMONSTON OF SHELTER AGG 112/18 REMOVE CULVERT IN PARG
(attach additional sheets if necessary)
If applying for a subdivision which creates a new road, please supply three proposed names for the road, in order of preference:
1
CNR DRUMMEND & NORFELK STS / G/R/1 Site address: ##GEMETORY ROAD, PERTY
Site address: SECENTICAL ROAD, CERTH
***************************************
CT no:
Estimated cost of project \$.500 (include cost of landscaping, car parks etc for commercial/industrial uses)
Are there any existing buildings on this property? (Yes) / No If yes – main building is used as PICNIC SMECTER
If variation to Planning Scheme provisions requested, justification to be provided:
***************************************
(attach additional sheets if necessary)
Is any signage required?





#### FOLIO PLAN-131

RECORDER OF TITLES





OWNER N.C. COUNSEL B.E. AYERS

FOLIO REFERENCE CONV Nº 51-0059.

GRANTEE PART OF 12A 3R 24P GTD. TO JOSEPH BIRD.

PLAN OF SURVEY

BY SURVEYOR G.J. WALKEM. - G.J. WALKEM & CO. LAUNCESTON.

LOCATION

TOWN OF PERTH. SECTION Y.

REGISTERED NUMBER

\$P128769

1 8 NOV 1997

LENGTHS IN METRES SCALE 1: 1250. Recorder of Titles ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN MAPSHEET MUNICIPAL CODE No. 123. (5039-24) LAST PLAN LAST UPI No. 5601339 (S.P. 9500) ROND [ D.25607] FREDERICK ( D.4 6 0 6 3 1 (S.P. 45990) 100:00:00 STREET ш [ D. 1 9 1 9 6 ] Ш DRAINAGE 8 WIDE. EASEMENT. 1. 9381 m² 4 4 Ш > (P.1260401 Z 0 (D.16194)  $\alpha$ 2. (S.P. 7537) 100. ROAD. ORFOL 13·2 m<sup>2</sup> 3.211 ha (D.106744) 139-47 1D.O. 1363-1901 7.72 174°31' 101. ROAD. 21.0 m2 (401-19D) DRUMMOND (S.P. 4 0 3) STREET (S.P.11480) (S.P. 120166) SET APART FOR PUBLIC 865 m<sup>2</sup>



1-132

PO Box 156
13 Smith Street PH: 03 6397 7303
Longford TAS 7301 FAX: 03 6397 7331
Email: council@nmc.tas.gov.au
Web: www.northernmidlands.tas.gov.au

Base data from the LIST, © State of Tasmania. For actual boundaries refer Title Plan.

Base image by TASMAP, © State of Tasmania

Where shown, aerial photography is indicative only and should not be used as an accurate comparison of title boundaries.

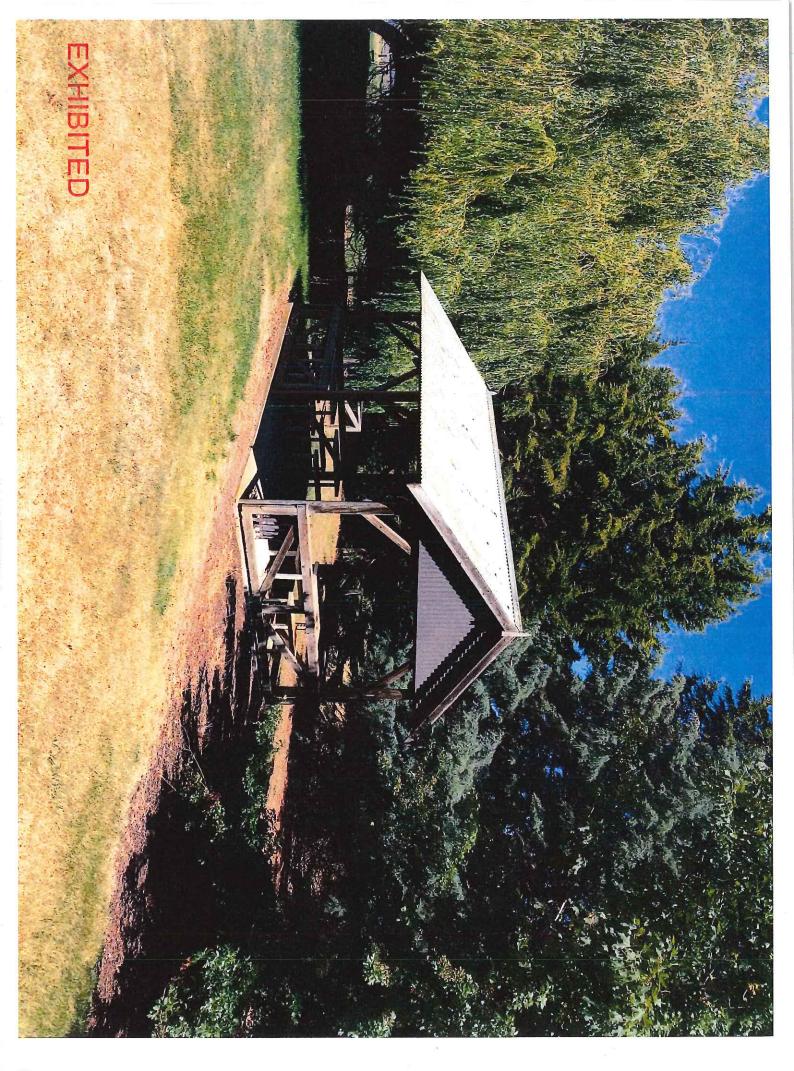
Where shown, underground services are diagrammatic only. Actual location of services are to be confirmed on site.

26/06/2018

1:500







# DRUMMOND & NORFOLK STREET, PERTH WATER MAIN RELOCATION

JOB No. J182545CL

							- 50					
SH1	C10	C09	C08	C07	C06	C05	C04	C03	C02	C01	No.	
TASWATER DN20 & DN25 PROPERTY SERVICE CONNECTION	PIPE THRUST BLOCK	GENERAL DETAILS	GENERAL ARRANGEMENT - SHEET 2 of 2	GENERAL ARRANGEMENT - SHEET 1 of 2	LONGITUDINAL SECTION - SHEET 4 of 4	LONGITUDINAL SECTION - SHEET 3 of 4	LONGITUDINAL SECTION - SHEET 2 of 4	LONGITUDINAL SECTION - SHEET 1 of 4	SITE PLAN	GENERAL NOTES	DESCRIPTION	DRAWING SCHEDULE
Α	В	8	В	8	В	В	ס	Β.	B	Œ	REV	



- ONLY PRODUCTS APPROVED BY THE TASWATER SHALL BE USED. TASWATER ADOPTED THE CITY WEST WATER (CWW) APPROVED PRODUCTS CATALOGUES. HAS
- 2 WORKS MUST BE CONSTRUCTED ACCORDING TO WSA 03 MRWA EDITION. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH ALL CURRENT REVISIONS, AMENDMENTS AND UPDATES THAT TASWATER HAS MADE TO THER REVISIONS, AMENDMENTS AND STANDARDS AND SUPPLEMENT
- w WATER SUPPLY ASSETS SHALL ONLY BE CONSTRUCTED AFTER DEEPER ASSETS AFFECTING THE WATER MAINS HAVE BEEN CONSTRUCTED (EG: SEWERAGE & DRAINAGE ASSETS).
- + THIS DESIGN IS TO BE READ IN CONJUNCTION WITH ROAD AND DRAINAGE PLANS.
- 'n THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN THE ROAD RESERVE AND COMPLY WITH ALL REQUIREMENTS OF THE ROAD OWNER.
- REFER TASWATER AND WATER SUPPLY CODE OF AUSTRALIA (WSAA) MRWA EDITIÓN STANDARD DRAWINGS:

MRMA WATER SUPPLY STANDARD DRAWINGS - 100 SERIES:

MRWA-W-200 BEARING PRESSURE MRMA WATER SUPPLY STANDARD DRAWINGS - 200 SERIES: SOIL CLASSIFICATION GUIDELINES AND ALLOWABLE HORIZONTAL

MRWA-W-201 PIPELINE EMBEDMENT AND TRENCH BACKFILL

MRWA-W-205A MRWA-W-202 MRWA-W-203 SINGLE SOCKET-SPIGOT MAIN CONCRETE THRUST RESTRAIN DETAILS SPECIAL EMBEDMENT DETAILS PIPE TRENCH DETAILS

MRMA WATER MRWA-W-212 MRWA-W-2050 SUPPLY STANDARD DRAWINGS - 300 SERIES: VALVE SURFACE FITTINGS TRAFFICABLE & NON-TRAFFICABLE AREAS CURVES AND DEFLECTIONS (VERTICAL & HORIZONTAL) VERTICAL CANTILEVERED THRUST BLOCKS

3MRWA-W-304 5MRWA-W-302 MRWA-W-306A MRWA-W-307 MRWA-W-306B MRWA-W-305 SCOUR ARRANGEMENTS FOR 2DN300 MAINS FLANGE DETAILS AND FLANGE FASTENING REQUIREMENTS FLANGE ARRANGEMENTS HYDRANT AND AIR VALVE DETAILS HYDRANT AND AIR VALVE ARRANGEMENTS

NVA MRMA WATER SUPPLY STANDARD DRAWINGS - 400 SERIES TW-W-300 ADDITIONAL STANDARD DRAWINGS: PIPE INSTALLATION - THRUST BLOCKS

TW-W-305 TW-W-312 TW-W-311 TW-W-306 FIRE PLUGS MARKING-WITHOUT KERB(S) STOP VALVES/FIRE PLUGS - TYPICAL INSTALLATION FIRE PLUGS MARKING-WITH KERB(S) STOP VALVES/FIRE PLUGS - TYPICAL LAYOUT

TASWATER STANDARD DRAWINGS TAKE PRECEDENCE OVER MRMA STANDARD DRAWING

AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ENGINEERING SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.

> ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK AND ANY THE ENGINEERS DRAWINGS SHALL NOT BE SCALED. DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT.

9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY STRUCTURE IN A STABLE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND ENSURING NO PART SHALL BE OVERSTRESSED DURING CONSTRUCTION ACTIVITIES

10. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

= SERVICES SHOWN ON THE DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO ESTABLISH THE LOCATION OF AND PROTECT EXISTING SERVICES AT THE SITE.

12. THE LOCATION OF ELEMENTS SHOWN WITHIN THE SITE ARE NOMINAL ONLY

Ħ CHANGES TO THE LAYOUT OF ITEMS SHALL BE REFERRED TO THE LOCAL STATUTORY AUTHORITIES AND CONFIRMED PRIOR TO INCORPORATING THE CHANGES.

# WATER MAIN ALIGNMENT, TRENCHING & COVER

- 7 TRENCH, PIPE PLACEMENT, EMBEDMENT AND BACKFILL DIMENSIONS AS STANDARD DRAWING MRWA-W-202. PER
- ių OFFSETS OF MAINS FROM PROPERTY BOUNDARIES SHALL BE; MIN 600MM (MAINS DN100) AND MIN 1M (MAINS >/ DN100).
- 16. ALL WATER MAINS SHALL PASS OVER DRAINS AND SEWERS UNLESS SHOWN OTHERWISE IN THE DESIGN DRAWINGS.
- 7 CURVED WATER MAIN(S) AND DEFLECTIONS SHALL BE CONSTRUCTED AS PER DRAWING MRWA-W-212.
- **18**. WITHIN ROAD RESERVES THE LOCATION OF SERVICES AND MINIMIM SEPARATION DISTANCES SHALL BE IN ACCORDANCE WITH TASWATER SUPPLEMENT FIGURES 5.6.1 AND 5.6.2 NOTING THAT THIS IS FOR TASWATER PIPEWORK ≤ DNZ00
- 19 SHARED TRENCHING FOR WATER MAINS AND TELECOMMUNICATION CABLES/CONDUITS AND/OR ELECTRICITY CABLES/CONDUITES AMD/OR GAS MAINS IS GENERALLY NOT ACCEPTABLE.
- 20. WHERE SHARED TRRUCHING IS PROPOSED, MANTAIN MINIMUM CLEARANCES BETWEEN WATER MAINS AND OTHER SERVICES THAT PERMITS MECHANICAL EXCAVATION. APPROVAL BY TASWATER IS MANDATORY.

## OTHER SERVICES

21

TO RECEIVE THE MOST UP TO DATE INFORMATION PRIOR TO CONSTRUCTION, "D BEFORE YOU DIG" SHALL BE UNDERTAKEN TO AID IN THE LOCATION OF OTHER SERVICES SHALL BE CARFFULLY LOCATED PRIOR TO FULL EXCAYATION AT THE CONTRACTOR'S COST. ANY CLASHES OF PROPOSED NEW WORKS WITH OTHER ASSETS SHALL BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY FOR CLARIFICATION.

- 22. OFFSETS TO OTHER SERVICES SHALL BE AS PER TABLE 5 OR OTHERWISE AS PER TABLE 5.5 OF WSA039 RWAN EDITION, THESE CLEARANCES SHALL APPLY TO SURFACE COVERS AS WELL AS UNDERGROUND ASSETS.
- 23. VERTICAL CLEARANCES FROM OTHER SERVICES SHALL BE AS PER WSA 03 [MRWA]

## HYDROSTATIC PRESSURE TESTING

- HYDROSTATIC PRESSURE TESTING SHALL COMPLY WITH WSA 03 [MRWA] PART 2. SECTION 19.4
- NOTIFY TASWATER AND SUPERINTENDENT PRIOR TO TESTING

25.

24.

26. TEST PRESSURE: 1200kPa (128ar)

## WATER QUALITY TESTING

WATER QUALITY TESTING SHALL COMPLY WITH WSA 03 (MRWA) PART 2: SECTION 19.7

27.

28. NOTIFY TASWATER AND SUPERINTENDENT PRIOR TO TESTING

### DISINFECTION

29.

- DISINFECTION SHALL COMPLY WITH WSA 03 (MRWA) PART 2: SECTION 20
- 30. NOTIFY TASWATER AND SUPERINTENDENT PRIOR TO DISINFECTION

# \_EGEND - GENERAL ARRANGEMENT

P X φ X EXISTING STORMWATER NEW WATER CONNECTION EXISTING GUIDE POST **EXISTING TELSTRA PIT** EXISTING UNDERGROUND TELSTRA **EXISTING POWER POLE** EXISTING OVERHEAD POWER EXISTING WATER METER EXISTING FIRE HYDRANI EXISTING STOP VALVE EXISTING WATER MAIN NEW FIRE HYDRANT NEW STOP VALVE NEW WATER MAIN

AND MUST BE REPRODUCED IN COLOUR THIS IS A. COLOUR A3 DRAWING

WATER MAIN GENERAL ARRANGEMENT DETAIL

DWG NO. J182545CL REVISION

CONSTRUCTION ISSUE

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common must be signed "Approved" by JMG to authorize it for use. LMG Company to executate as accept no illability whatseever for unauthorized or unicensed use.

Resourchty in dinastian SCALES @ A3 DO NOT SCALE, the not flavor discretion, tocclore of secure, many, souther or on the dearly are locative only, COMPROCINE to creck deathers & not profess dearly for ex-ordering become secure, labels, factors, in 1991, series or COMPROCINE will creck at desirescent and next because of all larce, and secures or PLOT DATE 18/04/2019 DESIGNED BY DRAWN BY **Engineers & Planners** 

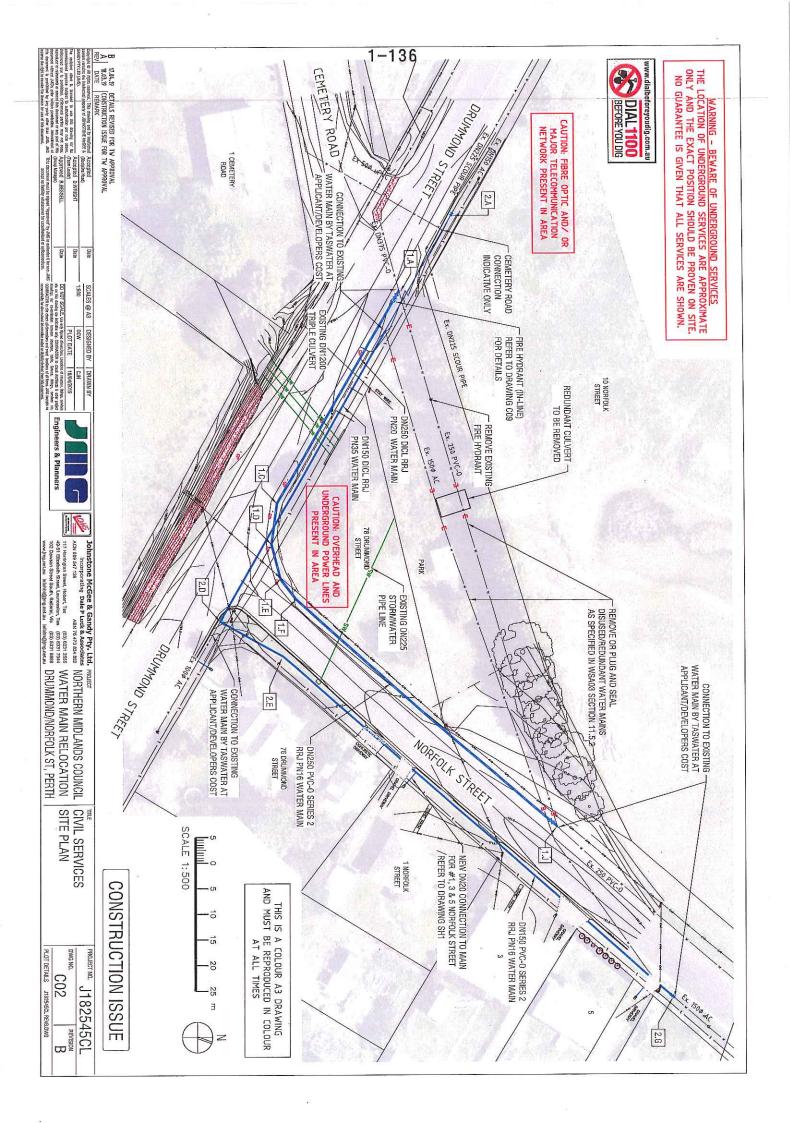
ACN 009 547 139 Johnstone McGee & Gandy Pty. Ltd. PROJECT Incorporating Dale P Luck & Associates NIOD

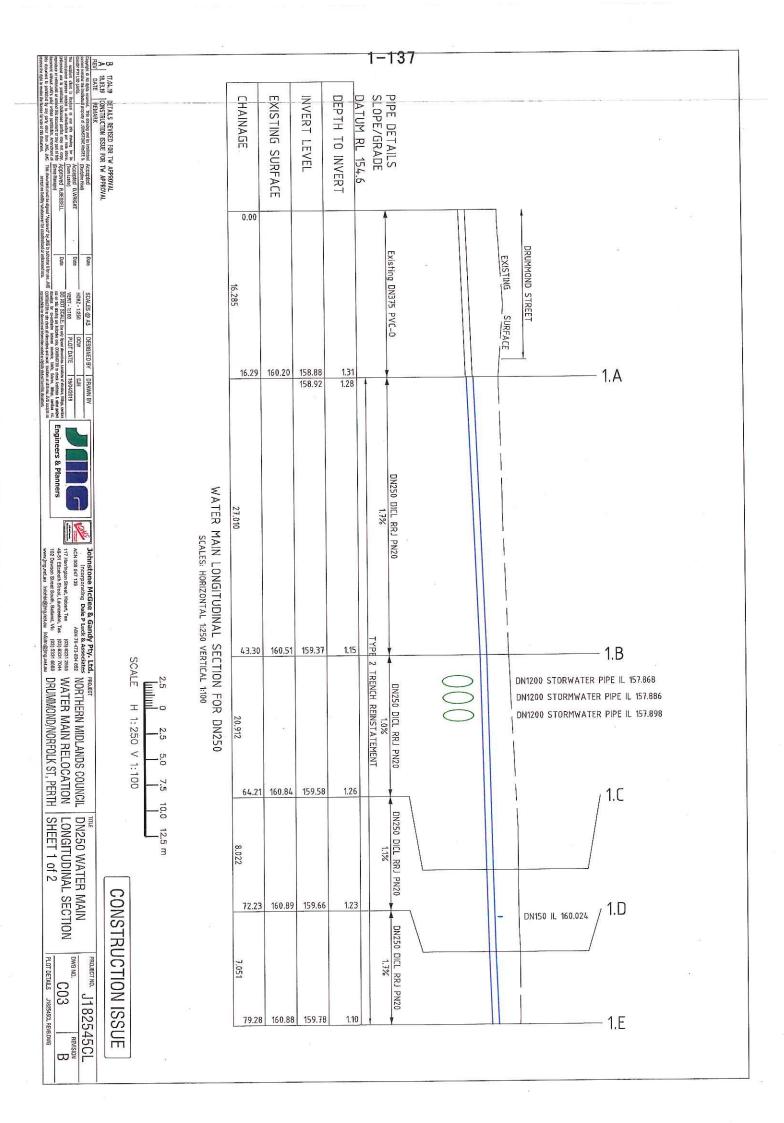
117 Harrington Street, Hobart, Taa (93) 8231 2855 49-51 Elizabeth Street, Leurocation, Taa (93) 8237 7044 102 Devean Street South, Ballenat, Vic (93) 8337 6869 www.jmg.net.au Infolht)@jmg.net.au infolht@jmg.net.au ABN 76 473 834 852

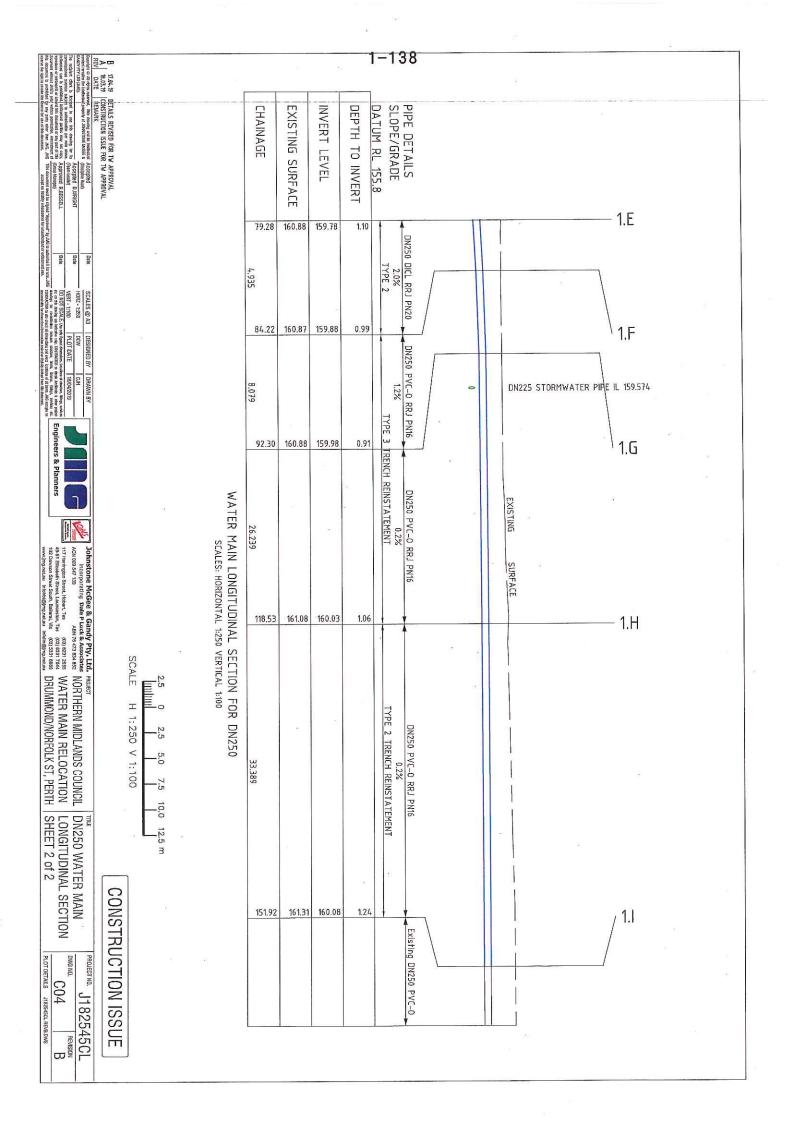
WATER MAIN RELOCATION NORTHERN MIDLANDS COUNCIL DRUMMOND/NORFOLK ST, PERTH

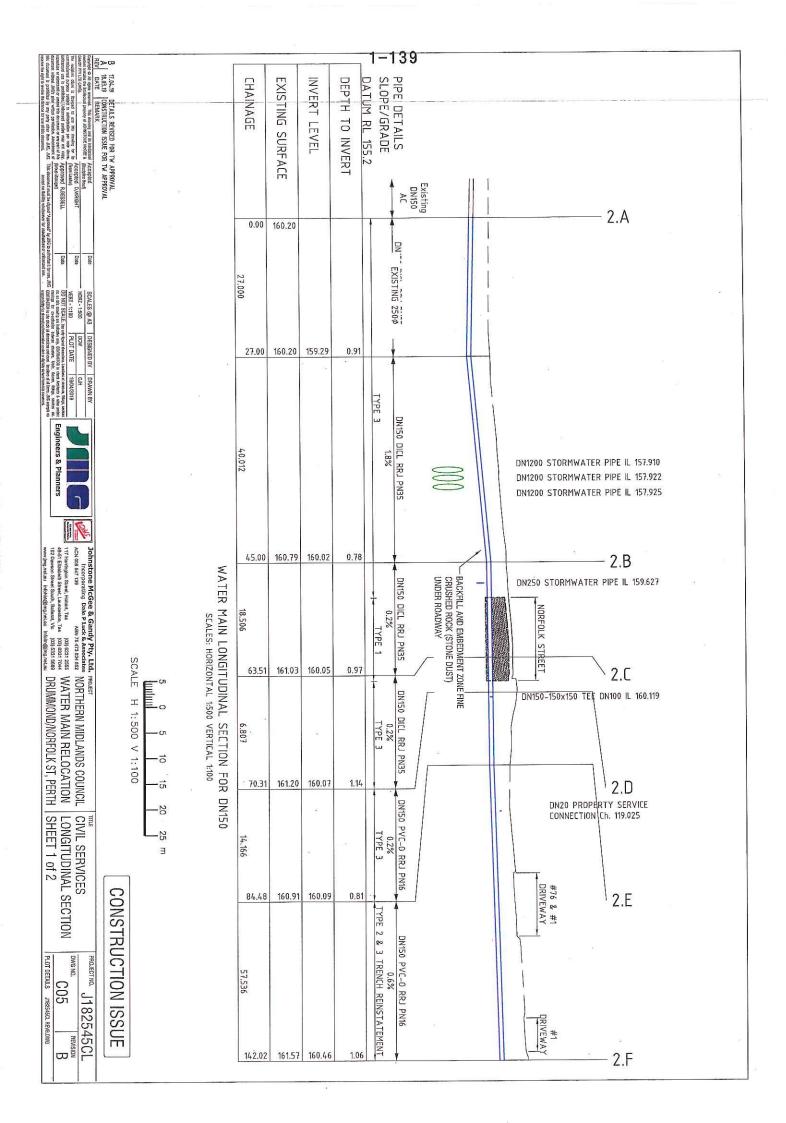
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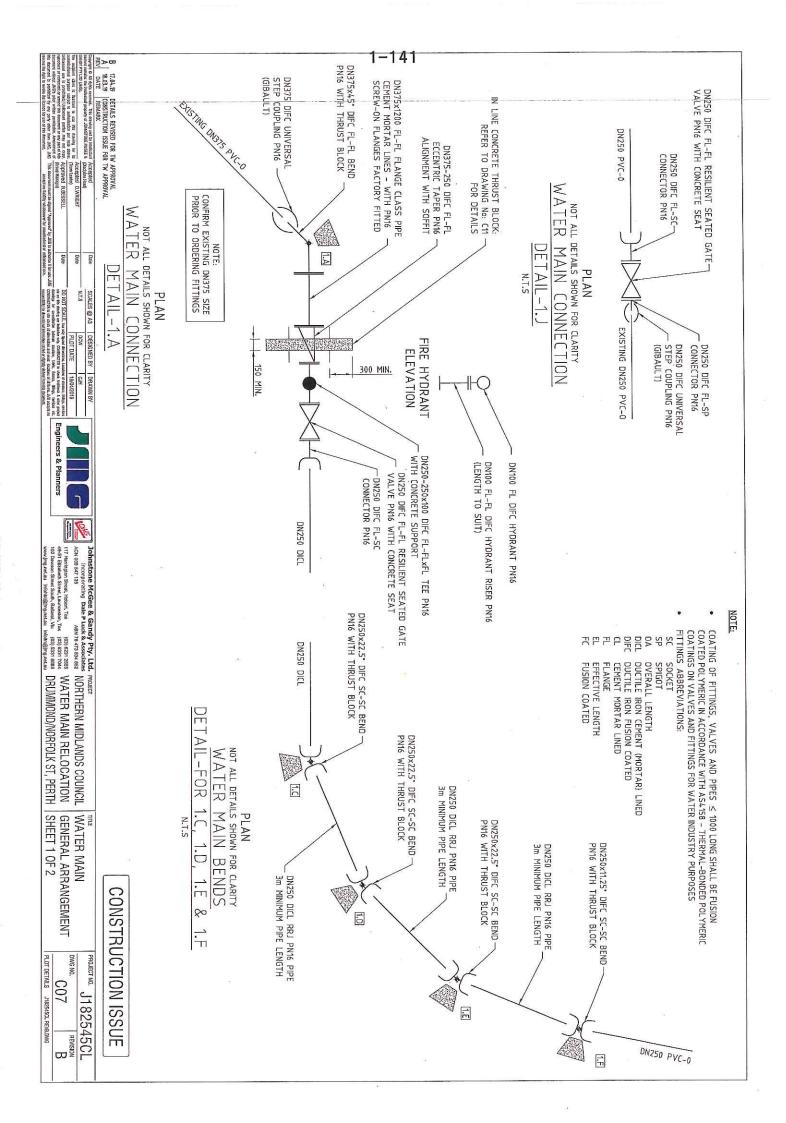
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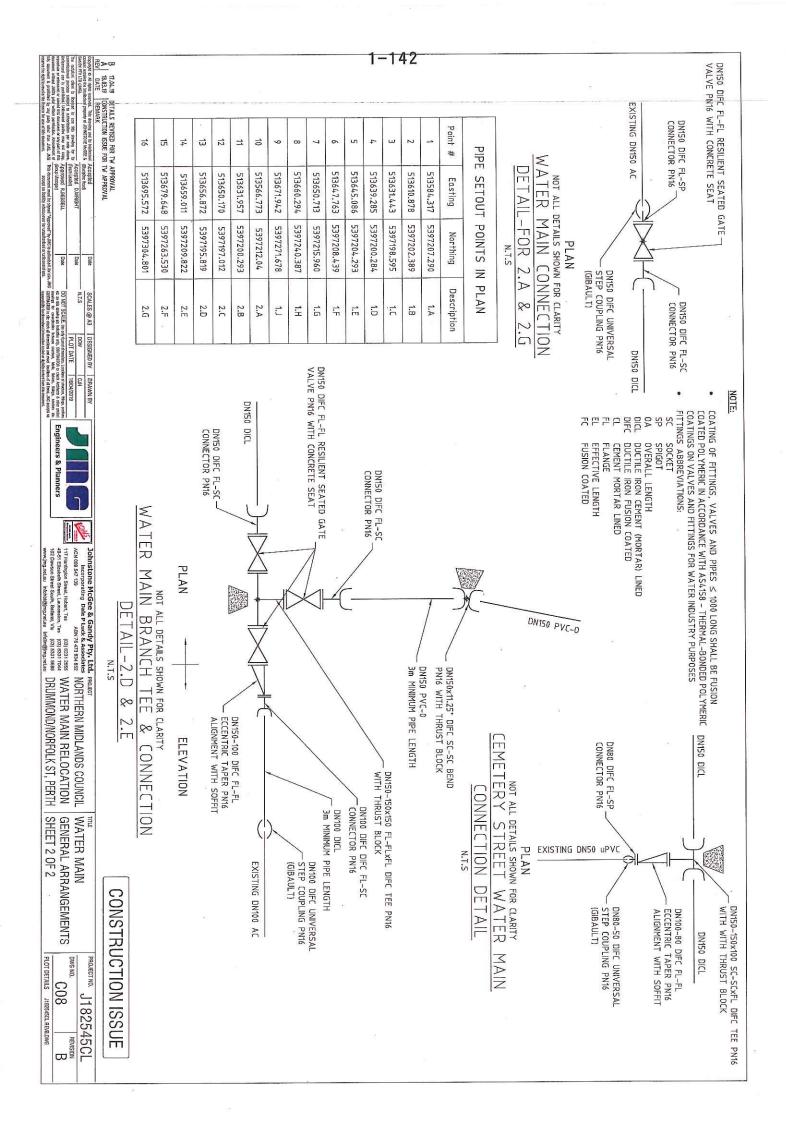


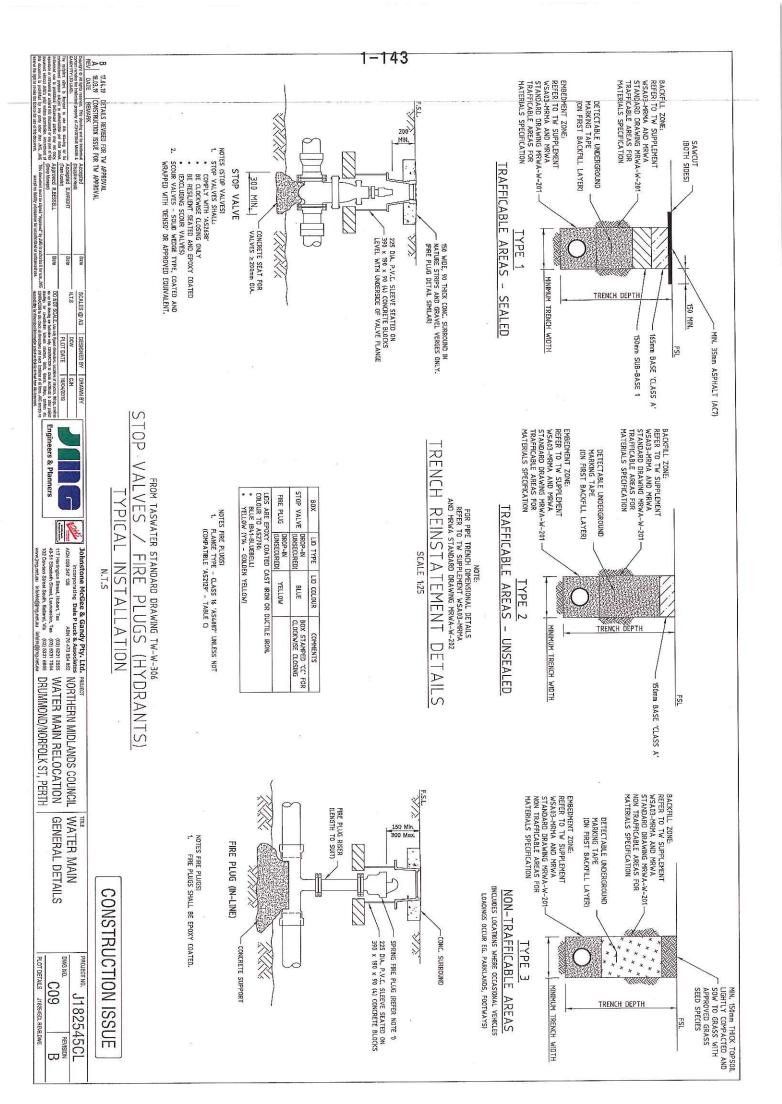












## THRUST BLOCK CONSTRUCTION NOTES:

TABLE 2.1

TABLE 2.2

- CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL WITH AHBP >50 MPA.
  THRUST BLOCKS NOT TO INTERFERE WITH OTHER SERVICES.
- DO NOT USE STANDARD THRUST BLOCKS AS SPECIFIED ON THE DRAWINGS IN:

  VERY SOFT, SOFT OR FIRM CLAY

  LOCSE CLEAR SAND

  UNCOMPACTED FILL OR REFUSE

INDIVIDUAL DESIGN IS REQUIRED FOR THESE SOILS.

IN LINE THRUST BLOCKS MUST HAVE A MINIMUM OF 2m of solid undisturbed ground around both sides of the block.

- FINISH THRUST BLOCKS APPROXIMATELY 100 ABOVE THE TOP OF THE FITTING OR BEARNING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NETEXSARY TO ACHEVE THE REQUIRED THRUST AREA.

  POUR CONCRETE AGAINST A SOLID EXCAVATION FACE
- MAXIMUM ENCASEMENT AROUND PIPE TO 180'.
- WHEN POURING CONCRETE AGAINST ALL FITTINGS USE DENSO MB-50 TAPE BETWEEN THE FITTING AND CONCRETE TO PREVENT DAMAGE TO THE FITTING.
- USE MINIMUM GRADE NZO CONCRETE.
- CONCRETE BLOCKS MUST BE KEPT CLEAR OF OTHER SERVICES.
- SUPERINTENDENT TO CONFIRM SAFE HORIZ. BEARING PRESSURE (KPa)

FIRM CLAY	ROCK	SOIL TYPE	TABLE
150	300	SAFE HORIZ. BEARING PRESSURE (kPa)	

AREA
X X 30 30 50 50 50 50 770 770 770 770 770 770 77
DIMENS 'X' 'X' '300 300 300 300 500 500 500 700 500 500 500 500 500 5

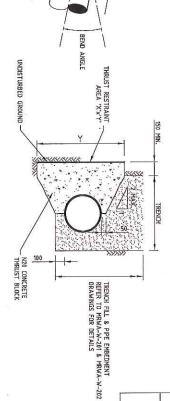
	AND IEES	BLANK ENDS			90.			45*			22.5*			11.25		BEND ANGLE	1600kPa MAXIMUM SYSTEM
n	В	Α	C	В	ъ	C	В	A		В	A	C	В	Þ		SOIL TYPE	MUM SYSTEM .
1.69	0.56	0.28	2.38	0.79	0.4.0	1.29	0.43	0,22	0.66	0.22	0.11	0.33	0.11	0.06	(m <sup>2</sup> )	BEARING AREA	TEST PRESSURE
1700	1000	600	2100	1300	900	1850	800	500	1250	500	300	750	300	300	×	DIMENSI	
1000	600	500	1300	700	500	900	600	500	600	500	500	500	450	450	γ,	DIMENSIONS (mm)	

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	100	122		
-	DIMENSIONS (mm)	BEND ANGLE   SOIL TYPE   BEARING AREA	SOIL TYPE	BEND ANGLE
		EST PRESSURE	1600kPa MAXIMUM SYSTEM TEST PRESSURE	1600kPa MAXII
(m <sup>2</sup> )	NOMINAL DIAMETER OF FITTING DN375 MINIMUM THRUST AREA FOR BLOCKS IN SQUARE METERS (m²) FOR ALLOWABLE HORIZONTAL BEARING PRESSURE	NOMINAL DIAMETER OF FITTING DN375 RUST AREA FOR BLOCKS IN SQUARE I RUDWABLE HORIZONTAL BEARING PRE	NOMINAL DIA IRUST AREA ALLOWABLE I	MINIMUM TH

D ANGLE	SOIL TYPE	BEARING AREA	DIMENS	DIMENSIONS (mm)
		(m²)	,, ,,	γ,
45.	٨	0.58	900	700
	œ	1.16	1500	800
	n	3.50	2500	1500

7,7	
	SOFT CLAY
	50



WILLIAM STATES

7

SECTION Z-Z

PLAN

## CONCRETE THRUST BLOCKS

DESIGNED BY FOR TYPE A,B AND C SOILS

B 17.44.19 DETAILS REVISED FOR TW APPROVAL A 18.03.19 CONSTRUCTION ISSUE FOR TW APPROVAL REW DATE REMARK

ecursed must be digned "Approxed" by JIAG to authodise it for use. JIAGS College or de-place and effective accept no tability whatecover for unaufaction or unformed over.

Accept no tability whatecover for unaufaction or unformed over.

Accept no tability whatecover for unaufaction or unformed over.

Date

SCALES @ A3

PLOT DATE **Engineers & Planners** 

1977 Haveringson Steeak, Hobina, Tax (203) 02237 25555 WATER MAIN RELOCATION 45-95-51 Elzabelhi Steeak, Lumeration, Tax (203) 02337 70546 122 Demons Steeak Stank, Lumeration, Tax (203) 02337 70546 DRUMWOND/NORFOLK ST, PERTH www.impg.net.au infoht@imp\_net.au infoht@imp\_net.au infoht@imp\_net.au Johnstone McGee & Gandy Pfy, Ltd. Holley
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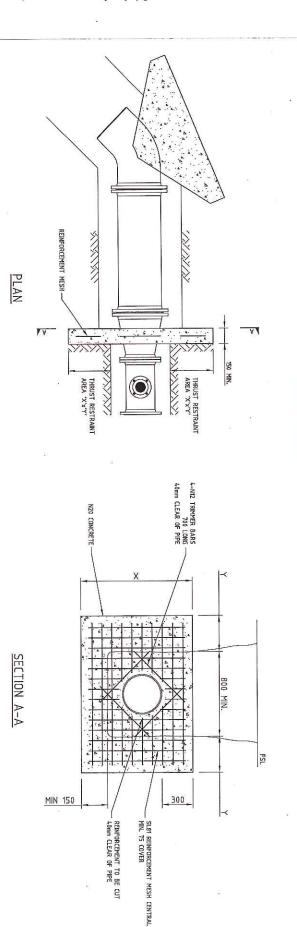
> WATER MAIN PIPE THRUST BLOCK DETAILS

DWG NO.

**CONSTRUCTION ISSUE** 

J182545CL

PLOT DETAILS J182545CL REVB.DWG C10



TAPER THRUST DN375-DN225

0.48 0.24 1.44

1100 950 1500

350 300 800

BEND ANGLE

SOIL TYPE

BEARING AREA

DIMENSIONS (mm)

1600kPa MAXIMUM SYSTEM TEST PRESSURE

NOMINAL DIAMETER OF FITTING DN375-DN225 TAPER MINIMUM THRUST AREA FOR BLOCK IN SQUARE METERS (m²) FOR ALLOWABLE HORIZONTAL BEARING PRESSURE EACH SIDE

TABLE 2.4

CONSTRUCTION ISSUE

DWG NO. PROJECT NO. J182545CL

REVISION B

Johnstone McGee & Gandy Pty, Ltd. PROLECT
Incorporating Date P Luck & Associates NORTHERN MIDLANDS COUNCIL
ACK 065 567 158 MIR ACK 065 567 158 MIR ACK 055 1587 1504 MIR ACK 055 1587

B 17.04.19 DETAILS REVISED FOR TW APPROVAL
A 18.03.19 CONSTRUCTION ISSUE FOR TW APPROVAL
DATE REMARK All rights reserved. This channing and its intellactual alors the interference property of JOHNSTONE MESSEE &

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Noci (L.8ESSELL

Date

D

Date Date

SCALES @ A3

PLOT DATE 18/04/2019

Engineers & Planners

NOT ALL DETAILS SHOWN FOR CLARITY
IN LINE THRUST BLOCK DETAIL

FOR TYPE A,B AND C SOILS REFER TO TABLE 1 AND TABLE 2.4

TILE

THRUST BLOCKS & SETOUT | PLOT DETAILS IT RESEASCL REVISIONS WATER MAIN PIPE

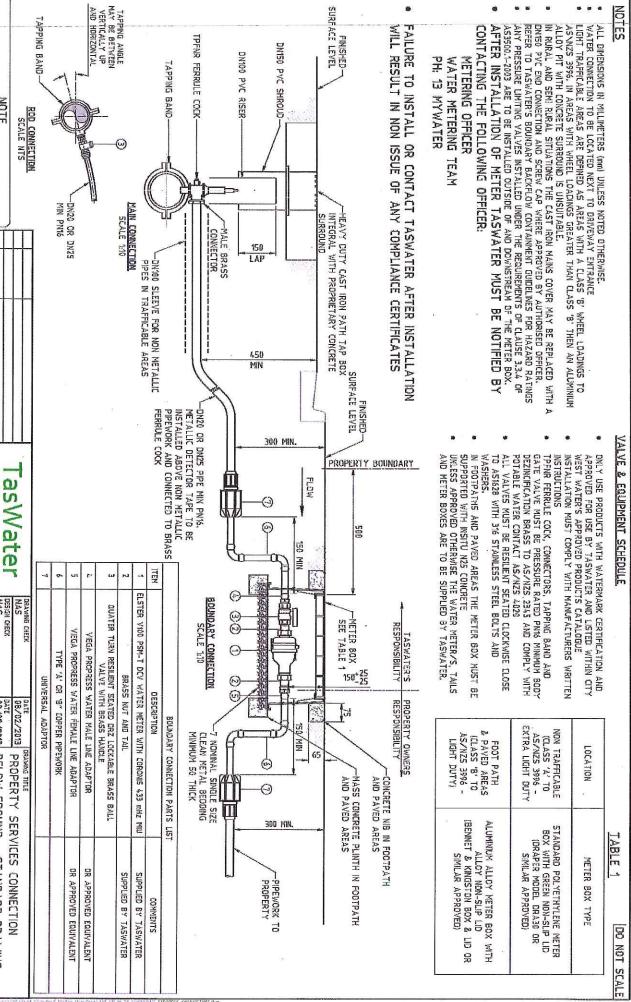


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IS THE USERS RESPONSIBILITY TO ENSURE THAT CURRENT VERSION IS BEING USED. THE CURRENT VERSION CAN BE DOWNLOADED FROM:

www.faswater.com.qu

ISSUED AS Taswater DRAWING

(3) Towketer. This document is and shall remain the preparity of The Warsey, Unauthorised use of this document in any form whatesever is prohibited. TASMANIAN WATER & SEWAGE CORPORATION PTY LTD PK. 19 6792 ABN: 47 162 228 683

STANDARD

AS SHOWN

TW-SD-W-20

SHEET

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NAS CHECK

0ATE 08/02/2013

DN20 & DN25 (LOW HAZARD)

BELOW GROUND - STANDARD DRAWING

PROJECT APPROVAL



**Submission to Planning Authority Notice** 

Council Planning Permit No.				Council notice date	14/12/2018			
TasWater details				ME STRUCK				
TasWater Reference No.	TWDA 2018/02059	9-NMC	11	Date of response	26/04/2019			
TasWater Contact	David Boyle		Phone No.	6345 6323				
Response issued	to							
Council name	il name NORTHERN MIDLANDS COUNCIL							
Contact details								
Development details								
Address	78 DRUMMOND S	T, PERTH, TAS - 73	00	Property ID (PID) 1824407				
Description of development	ription of Remove trees, picnic shelter and redundant culvert, and realign waterway							
Schedule of draw	ings/documents	在大学是是生活						
Prepa	red by	Drawing/doo	cument No.	Revision No.	Date of Issue			
JMG		J182545CL C02 /	Site Plan	. В	18/04/2019			

#### Conditions

Pursuant to the *Water and Sewerage Industry Act* 2008 (TAS) Section 56P(1) TasWater imposes the following conditions on the permit for this application:

#### CONNECTIONS, METERING & BACKFLOW

1. Any removal/supply and installation of water meters and/or the removal of redundant and/or installation of new and modified property service connections must be carried out by TasWater at the developer's cost.

#### **ASSET CREATION & INFRASTRUCTURE WORKS**

- 2. Plans submitted with the application for Engineering Design Approval must, to the satisfaction of TasWater show, all existing, redundant and/or proposed property services and mains.
- 3. Prior to applying for a Permit to Construct to construct new infrastructure the developer must obtain from TasWater Engineering Design Approval for new TasWater infrastructure. The application for Engineering Design Approval must include engineering design plans prepared by a suitably qualified person showing the hydraulic servicing requirements for water to TasWater's satisfaction.
- 4. Prior to works commencing, a Permit to Construct must be applied for and issued by TasWater. All infrastructure works must be inspected by TasWater and be to TasWater's satisfaction.
- 5. In addition to any other conditions in this permit, all works must be constructed under the supervision of a suitably qualified person in accordance with TasWater's requirements.
- 6. Prior to the issue of a Certificate for Certifiable Work (Building and/or Plumbing) Certificate of Water and sewerage Compliance (Building and/or Plumbing) all additions, extensions, alterations or upgrades to TasWater's water and sewerage infrastructure required to service the development, generally as shown on the concept servicing plan "JMG J182545CL C02 / Site Plan", are to be constructed at the expense of the developer to the satisfaction of TasWater, with live connections performed by TasWater.
- 7. After testing/disinfection, to TasWater's requirements, of newly created works, the developer must apply to TasWater for connection of these works to existing TasWater infrastructure, at the



developer's cost.

- 8. At practical completion of the water and sewerage works and prior to pplying to TasWater for a Certificate of Water and Sewerage Compliance (Building and/or Plumbing), the developer must obtain a Certificate of Practical Completion from TasWater for the works that will be transferred to TasWater. To obtain a Certificate of Practical Completion:
  - Written confirmation from the supervising suitably qualified person certifying that the works have been constructed in accordance with the TasWater approved plans and specifications and that the appropriate level of workmanship has been achieved;
  - b. A request for a joint on-site inspection with TasWater's authorised representative must be made;
  - c. Security for the twelve (12) month defects liability period to the value of 10% of the works must be lodged with TasWater. This security must be in the form of a bank guarantee;
  - d. As constructed drawings must be prepared by a suitably qualified person to TasWater's satisfaction and forwarded to TasWater.
- 9. After the Certificate of Practical Completion has been issued, a 12 month defects liability period applies to this infrastructure. During this period all defects must be rectified at the developer's cost and to the satisfaction of TasWater. A further 12 month defects liability period may be applied to defects after rectification. TasWater may, at its discretion, undertake rectification of any defects at the developer's cost. Upon completion, of the defects liability period the developer must request TasWater to issue a "Certificate of Final Acceptance". The newly constructed infrastructure will be transferred to TasWater upon issue of this certificate and TasWater will release any security held for the defects liability period.
- 10. The developer must take all precautions to protect existing TasWater infrastructure. Any damage caused to existing TasWater infrastructure during the construction period must be promptly reported to TasWater and repaired by TasWater at the developer's cost.
- 11. Ground levels over the TasWater assets and/or easements must not be altered without the written approval of TasWater.
- 12. A construction management plan must be submitted with the application for TasWater Engineering Design Approval. The construction management plan must detail how the new TasWater infrastructure will be constructed while maintaining current levels of services provided by TasWater to the community. The construction plan must also include a risk assessment and contingency plans covering major risks to TasWater during any works. The construction plan must be to the satisfaction of TasWater prior to TasWater's Engineering Design Approval being issued.

#### **DEVELOPMENT ASSESSMENT FEES**

13. The applicant or landowner as the case may be, must pay a development assessment fee of \$675.71 to TasWater, as approved by the Economic Regulator and the fees will be indexed, until the date paid to TasWater.

The payment is required within 30 days of the issue of an invoice by TasWater.



#### Advice

#### General

For information on TasWater development standards, please visit http://www.taswater.com.au/Development/Development-Standards

For application forms please visit <a href="http://www.taswater.com.au/Development/Forms">http://www.taswater.com.au/Development/Forms</a>

#### **Service Locations**

Please note that the developer is responsible for arranging to locate the existing TasWater infrastructure and clearly showing it on the drawings. Existing TasWater infrastructure may be located by a surveyor and/or a private contractor engaged at the developers cost to locate the infrastructure.

A copy of the GIS is included in email with this notice and should aid in updating of the documentation. The location of this infrastructure as shown on the GIS is indicative only.

- A permit is required to work within TasWater's easements or in the vicinity of its infrastructure. Further information can be obtained from TasWater
- TasWater has listed a number of service providers who can provide asset detection and location services should you require it. Visit <u>www.taswater.com.au/Development/Service-location</u> for a list of companies
- TasWater will locate residential water stop taps free of charge
- Sewer drainage plans or Inspection Openings (IO) for residential properties are available from your local council.

#### Declaration

The drawings/documents and conditions stated above constitute TasWater's Submission to Planning Authority Notice.

**Authorised by** 

Jason Taylor

Development Assessment Manager

TasWater Contact Details							
Phone	13 6992	Email	development@taswater.com.au				
Mail	GPO Box 1393 Hobart TAS 7001	Web	www.taswater.com.au				



#### **Request for Additional Information**

**For Planning Authority Notice** 

				т				
Council Planning Permit No.			Application date	14/12/2018				
TasWater details	CONTROL OF THE PROPERTY OF							
TasWater Reference No.	TWDA 2018/02059-MVC		Date of response	20/12/2018				
TasWater Contact	David Boyle	Phone No.	6345 6323					
Response issued	to							
Council name	NORTHERN MIDLANDS COUNCIL							
Contact details	planning@nmc.tas.gov.au							
Development details								
Address	78 DRUMMOND ST, PERTH, TAS - 7	<sup>'</sup> 300	Property ID (PID)	1824407				
Description of development	Remove trees, picnic shelter and re culvert, and realign waterway	edundant .	Stage No.					

#### Additional information required

Additional information is required to process your request. To enable assessment to continue please submit the following:

- 1. Please amended the referral document to also state " & water main realignment"
- 2. Please provide a concept servicing plan for reticulation & bulk water main realignment which shows the following:
  - The exact location of the existing reticulation & bulk water mains & any property water connection(s);
  - b. Indicative location of reticulation & bulk water main realignment (reticulation & bulk water main must be contained in the road reserve (where possible);
  - c. The required location of property water connection(s) accurately dimensioned relative to the existing/proposed boundaries noting that:
    - The property water service for each lot must be sized appropriately and located just inside the property boundary at the road frontage in accordance with the standard property connection details contained in TasWater's Water Metering Guidelines;
    - ii. Redundant connections must be shown to be cut and sealed.

#### **Advice**

#### **Service Locations**

Please note that the developer is responsible for arranging to locate the existing TasWater infrastructure and clearly showing it on the drawings. Existing TasWater infrastructure may be located by a surveyor and/or a private contractor engaged at the developers cost to locate the infrastructure.

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- TasWater will locate residential water stop taps free of charge
- Sewer drainage plans or Inspection Openings (IO) for residential properties are available from your local council.



To view our assets, all you need to do is follow these steps:

- 1) Open up webpage http://maps.thelist.tas.gov.au/listmap/app/list/map
- 2) Click 'Layers'
- 3) Click 'Add Layer'
- 4) Scroll down to 'Infrastructure and Utilities' in the Manage Layers window, then add the appropriate layers.
- 5) Search for property
- 6) Click on the asset to reveal its properties

**Authorised by** 

Jason Taylor

**Development Assessment Manager** 

<b>TASWATE</b>	R CONTACT DETAILS		
Phone	13 6992	Email	development@taswater.com.au
Mail	GPO Box 1393 Hobart TAS 7001	Web	www.taswater.com.au



44 Penquite Road LAUNCESTON TAS 7250

M: 0431 208 450

E: cameron.oakley@h-dna.com.au

ABN: 169 442 993 50

#### **MEMO**

9 May 2019

#### **Lions Park Tree Removal and Creek Widening**

Extensive hydraulic and hydrological modelling work has been undertaken on the Sheepwash Creek catchment. The Sheepwash Creek catchment is approximately 900 hectares is size to Drummond Street. Sheepwash Creek is of importance in terms if flood plain management due to its proximity to urban residential dwellings and roads in west Perth. During large storm events the creek has flooded roadways at Phillip Street, Edward Street, Thames Court, Youl Road and Drummond Street.

A formal flood study was produced in August 2016 (Sheepwash Creek and West Perth Flood Plain, Hydrodynamica). Flood plans were produced showing the extent of predicted 100 year and climate change flooding, as well as separate plans showing the potential flooding caused by failure of MacKinnon's Dam. These flood plans are listed here:

- 100 Year ARI Map 20160728.pdf
- 100 Year ARI Climate Change Map 20160728.pdf
- 1000 Year ARI Dam Failure 20160728.pdf
- Sunny Day Dam Failure 20160728.pdf

The modelling assumed that the culverts would be blocked due to the current high risk of blockage from the fences and vegetation in front of some of them. In particular, blockage of the Drummond Street culverts would significantly increase flooding upstream as the roadway will act as a dam. Due to Sheepwash Creek being very flat from Drummond Street to Phillip Street any restriction at Drummond Street contributes greatly to the extent of flooding in the upstream area.

The section of creek next to Drummond Street is Lions Park, which provides a significant risk of blockage to the culverts, see Figure 1. It can be seen that the dense stand of willows is within the creek channel and there are limbs and branches overhanging the culverts. There are also pine trees slightly upstream of the willows which overhang the creek. These limbs and branches cause debris accumulation at the culverts and contribute to the trapping of debris carried from upstream. There is the additional risk of falling large branches or even a tree fall during a flood which would create an immediate barrier to flows and allow additional debris to be trapped.

Being within the channel the willows create turbulence and also reduce the hydraulic efficiency of stormwater entering the culverts. Willows are a Department of Primary Industries, Parks, Water and Environment (DPIPWE) declared invasive species (<a href="https://dpipwe.tas.gov.au/invasive-">https://dpipwe.tas.gov.au/invasive-</a>



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<u>species/weeds-index/declared-weeds-index/willows</u>) and are notorious for invading the beds of streams and reducing flood carrying capacity. For this reason they have been the target of removal campaigns in rivers throughout Australia.



Figure 1. Lions Park willows overhanging culverts

In June 2016 further modelling and investigations were undertaken to determine the improvements needed to Sheepwash Creek and its infrastructure in order to reduce extent the impact of flooding in west Perth. These improvements include culvert upgrades of Phillip Street, Edward Street, Youl Road, the Western rail line and Drummond Street. In addition creek widening, land acquisition, removal of fences, and the clearing of trees within the creek line were recommended and taken into account in the modelling results.

The resulting 100 year and climate change flood footprints incorporating the proposed improvements are shown is the *Sheepwash Creek Inundation Plan v01 20170820.pdf* flood plan. The extent of flooding can be seen to be greatly reduced compared to the original 100 year and climate change maps. An additional flood plan was generated in October 2018 which shows the 100 year flood map with some incidental changes to the creek and flood plain which have occurred since the initial modelling; infill due to filling of the Effra Court subdivision and installation of the water sensitive urban design (WSUD) stormwater sediment basin and pond. Importantly this plan included the proposed willow and pine tree removal and creek widening only within Lions Park and unblocked culverts. The



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resulting flood footprint can be seen in the 100 Year AEP Current with existing drainage v01 20181017.pdf plan. Side by side the reduction in the flood footprint is evident:

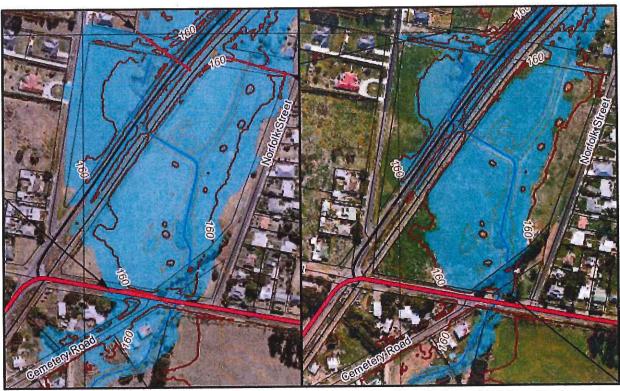


Figure 2. 100 year flood plan (July 2016) (left) and 100 year flood plan with Lions Park works (October 2018) (right)

Clearing of the trees, removing the blockage risk, and widening of the swale within Lions Park provides significant improvement at relatively low cost and are predicted to eliminate flooding of the Drummond Street carriageway.

To date modelling has been undertaken with an uncalibrated model. That is, it has been compared to anecdotal observations rather than against real world rainfall and flow measurements. In order to increase our confidence in the model the installation of a continuous monitoring station has been budgeted for installation near Phillip Street. The station will collect and send water level and rainfall information from which calibration of the model can take place. Calibration of the model may ultimately result in a reduction in the proposed culvert upgrades identified in the *Sheepwash Creek Inundation Plan v01 20170820* flood plan and produce significant cost savings.



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Council has rights and obligations to undertake these works under Section 3.17 of the Tasmanian Urban Drainage Act.

Regards,

Cameron Oakley

CONSULTING ENGINEER HYDRODYNAMICA

#### REFERRAL OF DEVELOPMENT APPLICATION PLN-18-0171 TO WORKS & INFRASTRUCTURE DEPARTMENT

Property/Subdivision No: N/a

Date:

14.12.18

Applicant:

NMC

Proposal:

Remove Trees, picnic shelter & redundant culvert, and realign waterway

Location:

78 Drummond Street and Road Reserve Between Drummond Street &

Norfolk Street, Perth

No W&I comment.

Jonathan Galbraith (Engineering Officer) Leigh McCullagh (Works Manager)

Date: 14/12/18

21 Norfolk St Perth 7300 Tasmania

The General Manager Northern Midlands Council PO BOX 156 Longford 7301 Tasmania

8/1/19

Dear Mr Jennings

I am writing to object to the planning application PLN-18-0171 for the removal of all trees and the picnic shelter from the Drummond St Reserve, Perth.

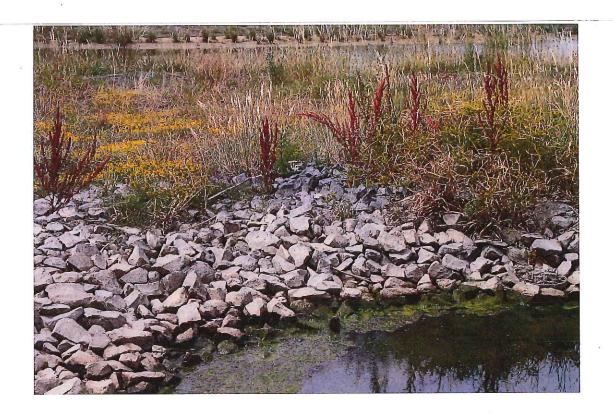
The trees are well established and locals and visitors to the town frequently use the picnic shelter. While the Sheepwash Creek development seems a good one, my concern is maintenance. The recently developed Edward Street wetland is already looking tired and uncared for with stagnant water and slime accumulating at the edges and grasses and weeds taking over from native vegetation. I have attached a couple of photographs taken today to show this.

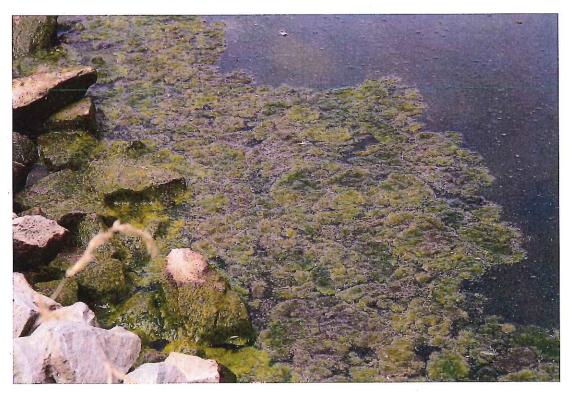
I have also attached a photograph of the Drummond St Reserve, which is green and inviting. If the waterway is to be redirected surely the picnic shelter and all of the trees do not need to be removed. It also seems rather strange that no mention is made about replanting of trees and vegetation in the application. I doubt that we will have something better than already exists.

I hope you will take my thoughts into consideration.

Yours sincerely,

Michael McWilliams









#### The Lions Club of Perth – Tasmania Inc.

PO Box 62, Perth, Tas. 7300

President: Carol Jones perth@lionstasmania.org Secretary: Selwyn Church

January 10, 2019
The Community & Development Supervisor
Mr Trent Atkinson
Northern Midlands Council
13 Smith St
Longford 7301

**Dear Trent** 

Thank you for your email of January 8.

The Perth Lions Club would like to accept both offers Council has made ie for the Club to be involved in liaising with Council about a possible site for an alternative position for a steel shelter in the Sheepwash Creek area and also for Council to dismantle and store the current shelter until such time that an appropriate re-location option is found.

On those bases, the Club is happy to withdraw its representation. Please accept this letter as formal notice of our withdrawal.

On a practical note, the first real opportunity for the Club to formally discuss both proposals will not come until its first full meeting which will be in early February. We suggest that Council undertake whatever it needs to do at its earliest convenience and we shall approach you to discuss ways forward following this first meeting.

We would also like to take this opportunity to thank Council for all of its work, over many years, to develop the "Train Park" on Main Rd, Perth. This is a valuable and valued asset for the town.

Yours sincerely

Selwyn Church Honorary Secretary

#### **Paul Godier**

From:

Trent Atkinson

Sent:

Tuesday, 8 January 2019 3:48 PM

To:

'perth@lionstasmania.org'

Cc:

Des Jennings; Paul Godier

Subject:

Objection to planning PLN18-0171 Cnr Drummond & Norfolk Street

Hi Selwyn

In response to your representation for PLN18-0171 dated 20/12/2018

Council would like to liaise with the Lions club to identify a new site within the Sheepwash creek development, but are looking at ways to reduce maintenance and are looking at steel construction for any new shelter.

Council are also happy to dismantle the current shelter and deliver or store it until a suitable relocation option becomes available.

Happy to discuss further, if the above address's the concerns of the Lions Club and the club is happy to withdraw it's representation could you please reply for our records.

Kind Regards

#### Trent Atkinson



NORTHERN MIDLANDS COUNCIL Community & Development Supervisor | Northern Midlands Council Council Office, 13 Smith Street (PO Box 156), Longford Tasmania 7301

T: (03) 6397 7303 | F: (03) 6397 7331

E: trent.atkinson@nmc.tas.gov.au | W: www.northernmidlands.tas.gov.au

Tasmania's Historic Heart

Please note that due to the high volume of enquiries received, officers will be available for phone and face to face appointments to discuss building and planning matters at the following times:

- Monday between 9:00am and 12:00pm
- Wednesday between 2:00pm and 5:00pm
- Friday between 9:00am and 12:00pm

For general enquiries please refer to the Fact Sheet located on our website at <a href="http://northernmidlands.tas.gov.au">http://northernmidlands.tas.gov.au</a>

Meetings can be arranged at other times by appointment.



#### The Lions Club of Perth - Tasmania Inc.

PO Box 62, Perth, Tas. 7300

President: Carol Jones perth@lionstasmania.org Secretary: Selwyn Church

> December 20, 2018 General Manager Northern Midlands Council 13 Smith St Longford 7301

Dear Mr Jennings

I write on behalf of the Lions Club of Perth, Tasmania (Inc) in order to comment on Council's planning application TLN-18-0171 which seeks to, among other things, remove the picnic shelter from the reserve at the corner of Drummond and Norfolk Streets, Perth.

Our Club erected this shelter, and nearby handrail, some years ago using funds we had raised and utilizing voluntary labour. This facility, provided by our community, is an asset to Perth and we believe it would be a travesty if it were to be removed altogether from our town.

We suggest that finding another place for it in Perth would be the most appropriate action. One of our members who assisted in the original construction believes that its method of construction would make it relatively easy to move.

Its re-location to another part of the current site would be ideal. If this is not possible, we would appreciate the opportunity to discuss other options with relevant Council officers before final approval of the application is considered.

We are anxious to work with Council to ensure the shelter is not wasted.

Yours sincerely

Selwyn Church Honorary Secretary

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Fig.		1-1-1-		7

## NUMBER LEGEND

- 2.6m (w) Shared pedestrion and cycle path to cross over railway line and continue on to Longford.
- Vegetation buffer between the parkland and adjoining railway line, consisting of Tasmanian and Australian native shrubs, tussocks and groundcovers.

Cromwell

Street

- 18 x large feature trees arranged in an oval pattern provide a point of interest, seasonal change, and shade for passive
- Large detention basin profiled to capture large volumes of starmwater prior to flowing downstream from Drummond Street
- Sheepwash Creek formed into an open grassed swale to allow tull use of the parkland for passive and active recreation during the non-rain events.
- Sheepwash Creek formed into an open grassed swale to allow full use of the parkland for passive and active recreation during the non-rain events.
- Existing culverts under the railway line to be increased to allow for greater stormwater flows directly from the Edward Street wetlands to the western side of Youl Road. Tasmanlan native trees along the raliway line vegetation buffer to a conopy trees to the landscope and further add hobitat for native birds and animats.
- 10 2.6m (w) Shared pedestrian and cycle path notwork connecting the adjoining residential areas with the Norfolk Street parkland.
- Low pedesirian bridge over the Frederick Street sediment basin and wetlands.
- 12 Sediment basin and weltands with varying water depths with a variety of aquatic plants provide natural stamwater litration prior to entering Sheepwash Creek.
- 13 Vegetation buffer between the parkland and adjoining residential lots, consisting of Tasmanian and Australian native trees, shrubs, tussacks and groundcovers.
- 14 Small nature based playspace providing play and environmental learning apportunities through natural materials and simple interpretive signago.
- 15 Rack lined low flow stormwater swate providing a physical barrier between the open space area and the Drunmond Street road culverts.

# PROPOSED PARKLAND PLANTING SCHEDULE

Botanical Name	Common Name	W×H
Feature Trees		
Liriodendron tulipliera	Tulip Tree	20 x 10m
Quercus robor	English Oak	20 x 20m
Trees		
Acacia melanoxylon	Blackwood	12 x 8m
Allocasuarina species	Sheoak	12 x 6m
Banksia marginafa	Honeysuckle	6 x 3m
Brachychiton var. 'Jerilderie Red'	Jerilderie Rod	5 x 3m
Elaeocarpus reticulatus	Blueberry Ash	8 x 7m
Eucalyptus species	Gum Tree	20 × 8m
Shrubs, Groundcovers and Tussocks	In	
Banksia species	Banksia	5 x 3m
Bursonia spinosa	Pricklebox	4 × 2m
Callisteman species	Bottlebrush	6 x 3m
Correa species	Correa	3 × 2m
Diplamena maraea	Flag Iris	.6×lm

-	×	Coastal Rosemary 1 x	Westringla species
	22	Bush Pea	Pullenaea species
	w	Melaleuca	Melaleuca species
-	×	Sagg	Lomandra species
-	5 x	Hibbertia	Hibberlio species
-	×	Grevilled	Grevillea species
_	× 6	Flax Lily	Dianella species
_	6 x	Flag Iris	Diplarrena moraea
N.	w	Correa	Correa species
to	6 ×	Bottlebrush	Callistemon species
N	4 × 2	Pricklebox	Bursonia spinosa
w	×	Banksia	Banksia species
			Shrubs, Groundcovers and Tussocks
00	20 x 8	Gum Tree	Eucalyptus species
7	8 x 7	Blueberry Ash	Elaeocarpus reticulatus
ω	5 x 3	Jerilderie Rød	Brachychiton var. 'Jerilderie Red'
			7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

ussocks	
Banksia	5 x 3m
Pricklebox	4 × 2m
Bottlebrush	6 x 3m
Correc	3 × 2m
Flag Iris	.6×lm
Flax Lily	ml x b.
Grevilled	1 × 1m
Hibbertia	.5 x 1m
Sagg	i × im
Melaleuca	3 x 2m
Bush Pea	2 x 1m
Coastal Rosemary 1 x 1m	1 x im
	Ibbs. Grouniscevers and Tussacks Isla species Prüctlebox Innia spinosa Prüctlebox Internon species Prüctlebox Internon species Bottlebrush Inserties Correa Internorman Properties India species Propertie Internorman Propertie Internorman Propertie Internorman Propertie Internorman I

