



**LOCALITY PLAN**

SCALE: 1:20,000 @ A3  
MELWAYS: 358 K1

**Schedule 8: Drawing Schedule**

Drawing No.	Sheet No.	Title
XXXXXX-01	1	Locality Plan, Schedules & Notes
XXXXXX-02	2	Detail Plan
XXXXXX-03	3	Detail Plan
XXXXXX-04	4	Long Section Sheet 1
XXXXXX-05	5	Long Section Sheet 2
XXXXXX-06	6	Construction Details

No works shall commence prior to plans being accepted and signed by Barwon Water

**NOTES TO THE DESIGNER:**

- Magenta text is example text only and should be written over in (Black) by the Consultant. It is not part of the design template.*
- Bold blue italics is instructional text for the Consultant's consideration and should be removed from designs.*
- All design plans shall be at the given scale on A3 sheets.*
- This template describes the minimum requirement. Additional information should be provided as required.*
- With design submissions, the Designer is required to supply the relevant Water Agency with the following:*
  - The current copy of the Plan of Subdivision with Building Envelopes indicated.*
  - All Geo-technical information collected.*
  - Project Specific Backfill Specification(s).*
  - Any structural computations.*
- Use other template sheets as required to provide further notes or schedules.*
- Amended sewerage design drawings shall be submitted to the Water Agency with a new version number and a summary phrase in the revision panel footer. The Design amendment can be presented using one or a combination of the following methods:*
  - Cross out original text or lines that are no longer included and replaced with revised text or lines;*
  - Show text changes in a different colour or font;*
  - Show line and drawing changes with a different coloured or different weight line;*
  - Surround text or drawing changes in a cloud or bubble.*
  - Reference to a Water Agency Audit Report is not acceptable as an amendment description in the revision panel footer.*
- Registered Engineer to include PE Number next to their name in the signature box. Can be either Checker or Authorised person.*

**General Notes:**

- Only contractors accredited by Barwon Water to 1S to 3S and (*Enter the categories of work required for this project*) shall be eligible to construct these works.
- Only products approved and catalogued by the Water Agency shall be used.
- Works must be constructed according to the current MRWA Sewerage Standards and MRWA edition of the WSAA Sewerage code of Australia WSA 02-2014- 3.1 and update number 5 of Barwon Water's Supplement to this code.
- The design consultant is responsible for the design and coordination of the works. Any problem arising during construction shall be directed to the consultant.
- Survey, Set Out and Asset Recording**
  - All contours and levels are in metres to the Australian Height Datum (A.H.D.) MGA XXX. *Nominate whether MGA94 or MGA2020 has been used.*
  - All co-ordinates shown are to Map Grid of Australia (MGA).
  - Chainages shown on detail plans are discontinuous at maintenance structures.
  - Chainages shown on long section sheets are continuous.
  - Coordinates are to sewer line intersection point unless otherwise shown.
  - Before commencement of work, the Contractor must complete a level check between all TBM's to verify level values.
  - TBM's and control points are to be maintained and protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.
  - Asset recording is to be undertaken in accordance with Barwon Water survey manual for Land Development, November 2022. All asset recordings must be completed to MGA94.

**Property Connections**

- Number of lots to be sewered: **XX** lots (*Enter number of lots in development design*)
- All property connections to be DN100 unless otherwise indicated.
- Branch tie distance shown on detail plans are from approved subdivision survey pegs. Branch ties for future lots are shown as a chainage. (Ch) Distance is from the downstream sewer structure.
- Invert level of the property connection point is shown opposite the branch position.
- Property Connections requiring Boundary Traps will be designated with "BT" at the end of the Property Connection Type description.
- DN100 sewers shall have a grade of 1 in 60 unless otherwise stated.

**Bends:**

- Detectable markers shall be installed above all bends which are not directly connected to Maintenance Structures. Refer Figure 104B-B.

**Earthworks and Retaining Walls:**

- In areas subject to earthworks, construction of sewers shall not commence until earthworks has been completed unless written approval has been given by the Water Agency.

**Embedment**

- Embedment shall be Type A (refer MRWA-S-202) unless otherwise specified on the Longitudinal section.

**Backfill**

- Selection and compaction of trench backfill material shall be in accordance with the MRWA backfill specification 04-03.1.
- Refer to Longitudinal Section drawings for backfill requirements.
- Maintenance Structures in non-trafficable areas are to be backfilled with 3% stabilised sand installed from the base up to 500mm below the finished surface, or up to the underside of the cover frame, whichever is shallower.

**Schedule 9: Survey information**

Number	Mark name/Parish	Easting	Northing	Height	H order	V order
XX	XX	XX	XX	XX	XX	XX
XX	XX	XX	XX	XX	XX	XX
XX	XX	XX	XX	XX	XX	XX

*Note to designer: Min 2x PSM with both H order & V order accuracy of 3 or higher, and 3xTBM*

**Compaction Testing**

- Test results shall be provided to the Superintendent prior to practical completion / acceptance of works.
- The Contractor is required to undertake all testing of fill compaction in accordance with MRWA Backfill Specification 04-03.1

**Safety:**

- Prior to commencement of works on site, the Contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and Occupational Health and Safety regulations 2017, have been and will be complied with.

**Work on Live Sewers:**

- All works on live sewers must be carried out by a Water Agency accredited contractor.
- All existing sewers must be plugged in accordance with Water Agency requirements to stop gas emissions prior to any connections being made.
- To enable connections to live assets or any work on live assets, the contractor shall submit the appropriate forms to the Superintendent at least three (3) working days prior to any works on live sewers.
- The Contractor is not permitted to break into an existing live pipeline, enter a live sewer or remove the cover to a live maintenance structure unless authorised by the Water Agency.

*(Insert any AMS requirements particular to the project)*

**Testing:**

- The Contractor is to give a minimum of three (3) days notice to the superintendent and Water Agency prior to the testing being undertaken. Testing is to be undertaken in the presence of superintendent.

**Cultural Heritage Requirements**

- The contractor is to keep a copy of the approved cultural heritage management plan on site at all times during works.
- (Insert any cultural heritage requirements particular to the project. If non are applicable remove)*

**Environmental Management Plan:**

- On commencement of construction works the contractor must comply with the recommendations of the EPA publication "Construction Techniques for Sediment Pollution Control" (publication no 275 1991).
- All trees and vegetation are to be protected unless otherwise indicated for removal. The extent of any vegetation removal shall be confirmed on site with the Superintendent and local council prior to commencement, and in accordance with any planning permits. Any removal shall be documented.
- All areas containing creek vegetation, trees and revegetated areas near the construction zone are to be fenced off during the works with secure and highly visible material such as para-webbing fencing.
- Ensure all machinery, equipment and/or footwear entering the site is weed and pathogen free.

**Schedule 6: Maintenance Holes**

Maintenance Hole ID	MH Type (Any /Plastic / Made to Order)	MH Top Type (Conical/Flat)	Cover Class	Internal Diameter (mm)	Min. Wall Thickness (if Concrete)	Depth Lowest Invert	Drops	Ladder (L) Step Irons (S) Landing (Ld)	Corrosion Protection	Shaft Re-infor cement	Comments (Offsets / Details)	Easting, or X co-ordinate	Northing, or Y co-ordinate
Ex ROC2-43	Concrete	Conical Top	B	1050	150	2900		S	-	-	Connect Ex 150 Stub	-	-
DJB3	Made to Order	Flat Top	B	1500	225	3512	1 x DN150	L or S	-	-	Refer MH. Base Detail	-	-
DJB4	Made to Order	Any	B	1200	150	3360	-	L or S	-	-	-	301979.27	5820397.46

**Notes to the Designer Regarding Schedule 6:**

- MH Type- Typically one of: Any, Plastic, or Cast In Situ Concrete.*
- MH Top Type- One of: Any, Flat Top, Conical Top*
- Corrosion Protection- Typically blank or one of Table 307-E options.*
- Co-ordinates required for a MH required where its position cannot be established using connecting sewer offsets and chainages (eg: sewer(s) is/are not parallel with a title boundary). Otherwise co-ordinates optional. Easting and Northing to the nominated MGA or X-Y co-ordinates to a nominated Base Point are acceptable.*
- Where concrete infill lids are proposed, acceptance from Barwon Water is required and this is to be documented Schedule 5: Water Agency Granted Dispensations.*

**Schedule 1: New Pipe**

Pipe Size	Pipe Type	Length (m)	Pipe Class	Standard
DN100	UPVC-DWV	NA	SN10	WSA PS 230
DN150	UPVC-DWV	483.3	SN8	WSA PS 230
DN300	UPVC-DWV	171.9	SN8	WSA PS 230

**Schedule 2: Property Connections**

Connection Type	Type 1a	Type 1b	Type 2	Type 4a	Type 4b	Type S	Type 4S	Type B	Type 4B	Jump Up Type F Couplings (TY2 or 4)
Quantities	6	4	24	0	2	5	0	1	0	8

**Schedule 3: Road Reserve Service Offsets (m) and Locations:**

Street	Gas	Water	NDW	Comms	Elec.	Lighting
Belvedere Crescent (Part 1)	W 2.25	W 3.15	W 2.65	E 4.00	E 4.75	1.00 BOK
Belvedere Crescent (Part 2)	W 2.25	W 3.15	W 2.65	E 1.85	E 2.60	1.00 BOK

**Schedule 4: Maintenance Structures (other than Maintenance Holes)**

Inspection Shafts (IS), Maintenance Shafts (MS) and Maintenance Chambers (MC):

Maintenance Structure ID	Type - (IS/MS/MC)	Cover Class	Depth to Invert (mm)	Shaft Connections	Easting, or X co-ordinate	Northing, or Y co-ordinate
DJB2-2	MS	B	1585	-	-	-
DJB2-2IS	IS	B	1444	-	-	-
ROC2-43-IS	IS	B	1740	1 x DN100	-	-
ROC2-44	MS	B	1614	1 x DN100	-	-

**Note to Designer Regarding Schedule 4:**

- Please ensure use of MC are in accordance with uses defined in Barwon Water's Supplement.*
- Co-ordinates required for an MS or MC where its position cannot be established using connecting sewer offsets and chainages (eg: sewer(s) is/are not parallel with a title boundary). Otherwise co-ordinates optional.*
- Easting and Northing to the nominated MGA or X-Y co-ordinates to a nominated Base Point are acceptable.*
- Add an additional comments column to the schedule if comments are required.*
- Where concrete infill lids are proposed acceptance from Barwon Water is required and this is to be documented in Schedule 5: Water Agency Granted Dispensations*

**Schedule 5: Water Agency Granted Dispensations**

ID	Location	Asset / Feature	Description of Dispensation Accepted
1	DJB1	Drop pipe	Butt Welded PE drop pipe to be constructed to geometry of Fig 311-E
2	DN450 sewer	Offset in Rd	1.3m offset under 1.6m wide footpath

**Schedule 7: Water Seals, Boundary Traps and Syphons**

Structure Type	Boundary Trap	Water Seals	Syphons
Quantity	0	1	0



**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED	CHECKED	DATE	PROJECT NUMBER	MELWAY REFERENCE	AUTHORISED	DATE	SCALE: AS SHOWN @A3
2	NOTE 3, 11 & 23 AMENDED- WORDING CHANGE	25/08/23	CC					DESIGNED	11/22/3333	LO ??????				SHEET: 1 OF 5
1	NOTE 3 AMENDED- 4 OF "BW" SUPPLEMENT NOTE 23 AMENDED- WORDING CHANGE	4/11/22	CC					DRAWN	11/22/3333	123 A1				DRAWING No.: REV
								CHECKED	11/22/3333					BW-S-100 2

**BARWON WATER**  
MUNICIPALITY PROJECT TITLE  
NOTES, SCHEDULES & LOCALITY PLAN

SCALE: AS SHOWN @A3  
SHEET: 1 OF 5  
DRAWING No.: BW-S-100  
REV: 2