

Design Checklist

BEFORE YOU START

To enable you to sign this document, you must first **save** it on your computer, and re-open it in your **preferred PDF application** (e.g. Adobe Acrobat Reader)

Purpose

- This checklist is intended for use by Water Service Coordinators (WSCs) when submitting Design Applications, and by Sydney Water when reviewing submitted designs. It aims to:
- Ensure all critical information is provided at the time of submission
- Support consistent and complete documentation

Important Notes:

- Any new case application will be returned if checklist information is missing
- Non-compliant applications will be formally rejected
- A comment must be provided in the comment section for all responses marked as No (N), or Not Applicable (N/A).
- The checklist promotes improved design submissions through a “first time right” approach
- It enables Sydney Water to assess the quality of submitted applications

1. General Design Details

Address on development consent					Case Number			
Asset Stream <input type="checkbox"/> Wastewater <input type="checkbox"/> Potable Water <input type="checkbox"/> Recycled Water <input type="checkbox"/> Stormwater					Asset Size			
					Asset Type			
Design Stage <input type="checkbox"/> Initial design <input type="checkbox"/> Amended Design, version number & date: <input type="checkbox"/> 12 month expired design resubmitted: <input type="checkbox"/> no amend <input type="checkbox"/> Amended design								
Capability (Select all that apply) <input type="checkbox"/> W1 <input type="checkbox"/> S1 <input type="checkbox"/> RW <input type="checkbox"/> LP <input type="checkbox"/> W2 <input type="checkbox"/> S2 <input type="checkbox"/> SW <input type="checkbox"/> W3								
Asset type <input type="checkbox"/> Water main/ Recycled <input type="checkbox"/> Sewer gravity main <input type="checkbox"/> Sewer <input type="checkbox"/> Pressure main <input type="checkbox"/> Pressure Reduce Valve (PRV)								
<input type="checkbox"/> Sewage Pump Station <input type="checkbox"/> Water Pump Station <input type="checkbox"/> Reservoir <input type="checkbox"/> Chemical Dosing Unit (CDU) <input type="checkbox"/> Odour Control Unit (OCU)								
<input type="checkbox"/> Other (specify)								
Engineering Disciplines (as per Engineering Competency Standard)					<input type="checkbox"/> Civil <input type="checkbox"/> Structural <input type="checkbox"/> Geotechnical <input type="checkbox"/> Stormwater & Water Sensitive Urban Design (WSUD) <input type="checkbox"/> Treatment Process			
					<input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Hydraulic <input type="checkbox"/> Instrumentation & Control <input type="checkbox"/> Building Services			
List all categories and sub-categories for each discipline from Engineering Competency Standard, listing designer, verifier and independent verifier (if applicable)								
<i>*Note: Individual Engineer competency level must comply with Engineering Competency Standard otherwise the design review cannot be progressed and will be returned</i>								
Categories of Design Work:								
Sub-categories of Design Work:								

2. WSC Details

WSC Company	WSC name
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3. Design Details

NOR & Concept Servicing Plan							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Cost Recovery Agreement	Has the Cost Recovery Agreement provided? If 'No' the design cannot be progressed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
NOR & Concept Servicing Plan	Does the design adhere to the requirements outlined in the NOR and Concept Servicing Plan, including the point of connection size, etc? If 'No' the design cannot be progressed justification been accepted by Sydney Water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Design Inputs							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Design Management (DMP)	<p>Has the design been executed in accordance with the certified Quality Management System (QMS) and the project-specific Design Management Plan (DMP)? Has the design been carried out according to the DMP?</p> <p>You need to complete and have it upon Sydney Water request. For complex asset must be provided</p> <p>Note- Any changes in the DMP and all associated documents to be updated and submitted to Sydney Water. Changes may include, but not limited to change in key personnel, scope of work, project risk/complexity.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Note: The Case Manager will only check the DMP if it has been requested by Sydney Water.
Design changes	<p>Have all changes agreed and documented in the change register (refer to section 6 Design change)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Design verification	<p>Have all categories and sub-categories of design work been verified?</p> <p>Independent verification undertaken where necessary, including;</p> <ul style="list-style-type: none">the preparation of an IV ReportIV certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Design Inputs							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Design Inputs	Have all necessary investigations and reports, such as geotechnical studies and searches for existing services, etc, been completed for the design? If 'No' the design cannot be progressed and will be returned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	"Has anticipated FIFM requirements been addressed in the design? If 'No' the design cannot be progressed and will be returned Note- The FIFM outcome needs to be considered at the design stage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Is the design impacted by future road works or changing ground level? If so, has this been addressed in the design? If 'No' the design cannot be progressed and will be returned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Design Outputs							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Design Outputs	Has Safety in design been properly addressed and adequately documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Has Safety in Design report provided? <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Have all drawings been prepared to Sydney Water CAD standards and properly drawn and annotated for correct interpretation? <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Have all drawings been provided with adequate details for construction? <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Has Design report provided? (refer to section 7 Design change) Note , it's not required for assets smaller than DN300 with standard conditions. <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Wastewater Catchment Analysis Compliance						
WSC / Designer use only					Sydney Water use Only	
Item	Requirements	Y	N	N/A	Comments	Y/N
Full catchment analysis	Is a wastewater catchment analysis provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<p>Note- This analysis is mandatory for all deviations and for all designs where the Equivalent Population (EP) exceeds 300 or when the size of the proposed works pipe is DN300 or greater</p> <p>If 'No' to any above the design cannot be progressed and will be returned</p>					<p><i>Catchment plan</i> <input type="checkbox"/></p> <p><i>Flow diagram.</i> <input type="checkbox"/></p> <p><i>Flow schedule</i> <input type="checkbox"/></p> <p><i>Mine subsidence affected</i></p> <p><i>Pre and post analysis included</i></p>
	Has an electronic flow schedule been attached in e-Developer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<p>If 'No' to any above the design cannot be progressed and will be returned</p>					<p><i>Excel file naming convention followed</i></p> <p><i>E.g. CN ##### WW V # SFSMAY23</i></p>
Catchment plan	Does the design include a catchment plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<p>Note - This is mandatory for all designs that potentially service adjoining areas currently without sewerage.</p> <p>If 'No' the design cannot be progressed and will be returned</p>					<p><i>Focus is on future extensions and lead-outs</i></p> <p><i>Catchment/service boundary shown</i> <input type="checkbox"/></p>
Self-cleansing	If a wastewater catchment analysis is included, does the design meet the requirements for self-cleansing grades and/or slime control?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<p>If 'No' and no DFS is provided the design cannot be progressed and will be returned</p>					

Project and Site Risk assessment							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Risk assessment	Have you carried out a project and site-specific risk assessment? If 'yes', provide details in the comments section. <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Has the design considered and addressed the identified risks? <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Sydney Water and others Critical Assets Impact	Update DBYD and services search information has been obtained and shown on the drawings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Locations of critical underground services have been determined by potholing and shown on the drawings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Known proposed services shown on drawings (Sydney Water and external agencies).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Will any critical assets be affected, including trunk mains, critical customers, SWC facilities, hospitals, etc.?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Works impact on Sydney Water	Are you working on Sydney Water land or easement or need access to;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• owned land	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Easement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Project and Site Risk assessment							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
	Have you consulted with Sydney Water Property Services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<p>If 'Yes', please select from the options below (select all that apply):</p> <p><input type="checkbox"/> Create or extinguish an easement</p> <p><input type="checkbox"/> Adjoins SWC property</p> <p><input type="checkbox"/> Acquire land for SWC property</p> <p><input type="checkbox"/> Licence agreement for access</p> <p>If 'Not consulted with Sydney Water Group Property team the design cannot be progressed and will be returned</p> <p>Note- Evidence of submission of document is required.</p>						

Design Checklist

Standards Compliance							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Design Compliance	Does the design comply with all relevant Sydney Water Standards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	If 'No', have all Deviations from Standards been identified, and submitted for acceptance by SWC? If 'No' the design cannot be progressed and will be returned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Standard Compliance	Have you complied with the current						
	• Engineering Competency Standard (ECS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Safety in Design Procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Technical Spec – Civil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• WSAA Code of Practice (SW editions where available)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Technical Spec – Mechanical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Technical Spec – Electrical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	• Others (specify in comments section)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Deem To Comply (DTC) drawings	Have DTC drawings been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	If yes, have you read and accepted the DTC terms & condition of use and referenced and correctly applied in the circumstance for the project? If 'Not complying with the DTC terms & conditions then the submission cannot be progressed, and bespoke design is required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Geotechnical Compliance (refer to Technical Specification – Civil)						
WSC / Designer use only					Sydney Water use Only	
Item	Requirements	Y	N	N/A	Comments	
Geotechnical Investigation	Have Geotechnical investigations and reporting been undertaken in accordance with Sydney Water Technical Specification – Civil? If 'No' the design cannot be progressed and will be returned Note – Geotechnical Factual Report and Geotechnical Interpretive Report to be produced and submitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Geotech report provided
	Have the locations of available geotechnical investigations been shown on the drawings? For example, are boreholes indicated on the site plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The location has shown on the drawings
	Have you used the results of the geotechnical investigation and incorporated them into the design? If 'No' the design cannot be progressed and will be returned Is the proposed works within following areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	• Soft or compressible soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	• Mine subsidence area (designated or otherwise)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	• Potentially unstable and/or steep land	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	• filled ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	• contaminated land	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
• Other conditions (specify in comments section)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Geotechnical Compliance (refer to Technical Specification – Civil)						
WSC / Designer use only					Sydney Water use Only	
Item	Requirements	Y	N	N/A	Comments	
						Y/N
						Comments
	<p>If yes, have these conditions been addressed in design.</p> <p>If above conditions haven't addressed in the design, the design cannot be progressed and will be returned</p> <ul style="list-style-type: none"> Note- the site investigation is required to assess the ground conditions in relation to Sydney Water asset design work, construction and operation See Appendix SW2 of WSA02 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Ground Conditions	Have the ground condition details and on-site verification requirements been indicated on the drawings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Environmental Compliance (All relevant environmental reports must be submitted with the design package)							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Review of Environmental Factors (REF)	Is the review of environmental factors part of Part 5 (Sydney Water)? If it's yes the REF must be submitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Has the REF outcome been addressed in the design?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Is review of Environmental factors is Part 4 (Council) and the outcome been addressed in design?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Contamination	Is the proposed work in Contaminated land?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	If yes, has a contamination report been provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Is full remediation occurring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	If No, detail changes in design addressing that risk <i>If 'No' the design cannot be progressed and will be returned</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Heritage Report	Is the proposed work will impact heritage asset?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	If 'yes', has heritage report provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Aboriginal Report	Is Aboriginal Land report required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Flora/Fauna Report	Is Flora / Fauna report required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Other	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Design Checklist

Associated design impacts to proposal							
WSC / Designer use only					Sydney Water use Only		
Item	Requirements	Y	N	N/A	Comments	Y/N	Comments
Building Plan Approval (Out of Scope)	Will this design require and associated BPA application to address BPA requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	BPA requirement details to be incorporated on the design						
	Has BPA application been submitted? If 'Yes', provide the case number in comment section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Note – Design many need to be finalised prior to BPA application						

4. Designer Details / Competency

Geotechnical

Design Manager / WSC certifying officer Name:							
Geotechnical			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Geotechnical			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Geotechnical			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Civil

Design Manager / WSC certifying officer Name:							
Civil			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Civil			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Civil			Name of Engineer:				
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>	

Structural Engineering

Design Manager / WSC certifying officer Name:						
Structural			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

Structural			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG If yes, provide copy	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

Structural			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG If yes, provide copy	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

Other Engineering Discipline - as per ECS

Design Manager / WSC certifying officer Name:						
			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

			Name of Engineer:			
ECS forms provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	C.V's provided	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Competency demonstrated	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CPENG	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

5. WSC/Design Certification by Design Manager

I certify that:

The overall design as being fit for purpose, Design assets for lowest life cycle cost to achieve desired level of service and acceptable risk meets objectives and complies Sydney Water's requirements on behalf of the organisation engaged to undertake the design.

If you have not checked the design fit for purpose the design cannot be progressed and will be returned.

Sydney Water may review the submitted Design and provide comment for consideration Sydney Water does not verify the Design. Sydney Water review of the submitted Design including any supporting documentation does not relieve the Designer of their responsibilities. Responsibilities for the Design remains with the Designer.

WSC Company:

Design Manager / WSC certifier officer Name:

WSC Name :

Signature:

Signature:

Date:

Date:

NOTE - you will be unable to sign this document until you save it and re-open in your PDF reader

6. Design changes and variation register

[illegible]

7. Design Report

The Designer is required to prepare a comprehensive Design Report, which must include, at a minimum, the following elements:

- Project objectives, including functional performance criteria and underlying design assumptions
- Design basis, with references to applicable standards and specifications
- Add Design calculations – refer C10.1.4 of the Civil Spec
- Recommended scope of work
- Key observations and any emergent scope requiring consideration
- Design review comment register, documenting all comments received and the designer's responses. Any unresolved actions must be clearly communicated to Sydney Water (SWC)
- Safety in Design review documentation, including the safety register. Outcomes from these reviews must be submitted to SWC and/or relevant stakeholders to facilitate closure of items managed through downstream processes such as detailed design, procurement, construction, or commissioning
- Summary of construction, commissioning, and proving methodologies, highlighting any impacts on site operations
- Details of approved design deviations
- Options analysis, including lifecycle costing. This section should outline all alternatives considered, the rationale for acceptance or rejection, and any cost savings identified during the design process
- Identification of any specialist contractor or independent verifier required to attend site during construction for specific inspections

8. Standards & Specifications

[Technical Specification - Civil - \(sydneywater.com.au\)](#)

[Technical specification – mechanical \(sydneywater.com.au\)](#)

[Technical specification – electrical \(sydneywater.com.au\)](#)

[Technical specification – electrical \(sydneywater.com.au\)](#)

[Engineering competency standard \(sydneywater.com.au\)](#)

[Appendix A Evidence of competency form.docx](#)

[Appendix B Independent Verification Certificate \(58.1KB, DOCX\)](#)

WSAA Codes, Manuals, Standards, Specifications (Sydney Water Editions as appropriate)

[Water Service Association of Australia](#)

[WSAA Shop: Sydney Water Codes](#)

- WSA 01 – Polyethylene Pipeline Code
- WSA 02– Sewerage Code of Australia (Sydney Water edition)
- WSA 03 – Water Supply Code of Australia (Sydney Water edition)
- WSA 04 – Sewage Pumping Station Code of Australia
- WSA 06 – Vacuum Sewerage Code of Australia
- WSA 07 – Pressure Sewerage Code of Australia
- WSA 201 – Manual for Selection and Application of Protective Coatings

[Sydney Water Supplement to Pressure Sewerage Code of Australia WSA-07 2007](#)

[Sydney Water supplement to industry standard for submersible pumps for sewage pumping stations WSA 101-2008](#)

[Deviation from standards procedure D0001738 \(sydneywater.com.au\)](#)

[Deviation from Standard Procedure - Attachments \(forms\)](#)

[Technical guidelines - Building over and adjacent to pipe assets](#)

RSIB – Sydney Water’s technical guidelines Reticulation Sewers in Basements

Design Checklist

Minor Works – Sydney Water’s Technical Requirements and Work Instructions for Minor Works (sewer)

Sydney Water Special Engineering Assessment Procedure

Sydney Water Safety in Design Procedure

Reticulation Sewers in Basements – Technical Guideline

EPS500 – Engineering Product Specification for Standard Pipes and Fittings for Networks

EPS210 – Welded Steel Pipes and Fittings

Water System Planning guideline

[Standards and specifications \(sydneywater.com.au\)](https://www.sydneywater.com.au)

[Building plan approvals \(sydneywater.com.au\)](https://www.sydneywater.com.au)

[Building over or next to assets \(sydneywater.com.au\)](https://www.sydneywater.com.au)
