

INSTRUCTIONS FOR USE OF DEEMED TO COMPLY DRAWINGS FOR PRE-CAST SEWAGE PUMPING STATIONS (SPS):

1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SEWAGE PUMPING STATION CODE OF AUSTRALIA WSA04 – SYDNEY WATER EDITION, SYDNEY WATER TECHNICAL SPECIFICATIONS AND SITE SPECIFIC SPECIFICATIONS. ANY DEVIATION FROM THESE DRAWINGS MUST BE APPROVED BY THE DRAWINGS AUTHOR IN ACCORDANCE WITH SYDNEY WATER'S DEVIATION FROM STANDARDS PROCEDURE. ONLY ENGINEERS OF ALL DISCIPLINES OF SUITABLE COMPETENCY IN ACCORDANCE WITH THE SYDNEY WATER ENGINEERING COMPETENCY STANDARDS ARE PERMITTED TO REFER TO THE DRAWINGS FOR USE IN THEIR DISCIPLINE.

2. THE DESIGN IS BASED ON USE OF MODULAR PRECAST CONCRETE COMPONENTS ALLOWING ASSEMBLY TO SUIT A VARIETY OF APPLICATIONS. THE DRAWINGS PROVIDE DEEMED TO COMPLY (DTC) SOLUTIONS FOR VARIOUS ELEMENTS OF A SPS INCLUDING:

i) INLET MAINTENANCE HOLE (IMH),

INTERNAL DIA (mm)	MAX. DEPTH (m)	MAX. NO. OF INLETS	MAX. INLET SEWER DIAMETER
1800	9	2	525

iii) WET WELL (WW),

INTERNAL DIA (mm)	MAX. DEPTH (m)	MAX. INCOMING SEWER DIA (mm)	NO. OF PUMPS	MAX. DUTY FLOW (L/S)	APPROX. MAX. HEAD ( m )	MAX. MOTOR RATED POWER (kW)	MAX. DISCHARGE PIPEWORK DIA. (mm)
3600	10	500	2	200	40	✱125	300

✱ kW RATING IS TO MINIMIZE THE ELECTRICAL WORKS TO A KIOSK INSTALLATION, ELECTRICAL DRAWINGS FOR THE KIOSK INSTALLATION CAN BE REQUESTED TO SYDNEY WATER. THE STANDARD ELECTRICAL PUMPING STATION DRAWINGS REFER TO TWO PUMPS WITH SOFT STARTERS (LESS THAN 125kW). THE DTC DESIGN DOES NOT CATER FOR PUMP STATIONS WITH VSD INSTALLATIONS.

iii) EMERGENCY RELIEF STRUCTURE (ERS),

INTERNAL DIA (mm)	MAX. INLET PIPE DIA. (mm)	MAX. OUTLET PIPE DIA. (mm)
1800	600	600

EMERGENCY OVERFLOW PIPE SHALL BE ONE PIPE SIZE LARGER THAN THE INCOMING SEWER TO THE WET WELL

iv) VALVE CHAMBER

INTERNAL DIM (mm)	MAX. DISCHARGE PIPEWORK DIA. (mm)
3160 WIDE x 3300 LONG	300

COMPONENTS MAY BE CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS OR SYDNEY WATER APPROVED EQUIVALENT 'OFF THE SHELF' PRODUCTS LISTED IN THE DRAWINGS. SUPPLIERS OF PRECAST COMPONENTS ARE ENCOURAGED TO SUBMIT DETAILS OF THEIR PRODUCTS FOR SYDNEY WATER ASSESSMENT.

3. THE DRAWINGS ALONE DO NOT CONSTITUTE A COMPLETE DESIGN PACKAGE. THE SCOPE OF DTC DRAWINGS DOES NOT INCLUDE OTHER COMPONENTS INCLUDING, BUT NOT LIMITED TO: PUMP UNITS, POWER, CONTROL AND TELEMETRY SYSTEM, EMERGENCY STORAGE, PRESSURE MAIN, SITE INFRASTRUCTURE SUCH AS ACCESS, SECURITY, SITE DRAINAGE, ERS & STORM WATER OUTLET, BUILDINGS ETC THAT MAY BE REQUIRED TO CONSTRUCT A COMPLETE SPS.

4. THE USER IS REQUIRED TO SUPPLEMENT THE DTC DRAWINGS WITH A SITE SPECIFIC DESIGN CONSISTING OF:

- i) SITE LAYOUT PLAN AND CROSS SECTIONS FULLY DESCRIBING THE LOCATION, LEVELS AND RELATIONSHIP BETWEEN EACH OF THE VARIOUS COMPONENTS.
- iii) COMPLETED SCHEDULES FOR PRECAST COMPONENTS (REFER DTC/6012).
- iii) COMPLETED PIPE SCHEDULE (REFER DTC/6029) AND DTC/6030)
- iv) ADDITIONAL DETAILS AS NECESSARY TO ENSURE THE DESIGN IS FIT FOR PURPOSE AND MEETS SYDNEY WATER REQUIREMENTS. ALL SUPPLEMENTARY DESIGN DOCUMENTATION MUST BE ACCEPTED BY SYDNEY WATER.
- v) TECHNICAL SPECIFICATION

THE USER SHOULD NOTE THAT USE OF STANDARD DESIGN COMPONENTS MAY INTRODUCE UNINTENDED SAFETY RISKS FOR THEIR APPLICATION. THE USER SHALL ADDRESS SAFETY RISKS THROUGH SITE SPECIFIC ASSESSMENT.

5. DRAWING'S DTC/6003 TO DTC/6009 ARE PROVIDED AS TYPICAL LAYOUTS TO GUIDE SITE SPECIFIC APPLICATIONS MEETING SYDNEY WATER REQUIREMENTS. IF THE SITE SPECIFIC DESIGN VARIES FROM THE TYPICAL LAYOUTS, DESIGNER TO CONSULT SYDNEY WATER.

6. COMPONENTS NOMINATED IN THE SITE SPECIFIC DESIGN SHALL BE BASED ON CONSIDERATION OF LIMITATIONS NOMINATED IN THE DTC DRAWINGS AND THE FOLLOWING INFORMATION AS A MINIMUM:

- i) SIZES AND INVERT LEVELS OF SEWERS ENTERING THE IMH
- ii) PUMP DUTY POINT AND SELECTED PUMP HYDRAULIC CURVES
- iii) EXISTING AND PROPOSED GROUND LEVELS AND SURFACE PROFILE AT THE SPS SITE
- iv) OVERFLOW LEVEL
- v) GEOTECHNICAL INVESTIGATIONS WITH INTERPRETATION, CONFORMING TO SWC TECHNICAL SPECIFICATIONS; INFORM ALL DESIGN ELEMENTS INCLUDING EARTHWORKS, FOUNDATIONS, RETAINING WALLS OF EACH STRUCTURE AND PAVEMENTS.

- 7. THE USER SHALL CONFIRM THAT THE CLEAR OPENING SIZE AND ACCESS COVER ARRANGEMENT SHALL FACILITATE FUTURE OPERATION AND MAINTENANCE WORK INCLUDING SITE SPECIFIC PUMP AND VALVE INSTALLATION AND REMOVAL.
- 8. PROPOSED FINISHED SURFACE LEVELS  
IF REQUIRED, EARTHWORKS SHALL BE PROVIDED TO RAISE THE FINISHED SURFACE LEVEL TO SUIT STRUCTURE HEIGHTS AND FLOOD LEVEL AND PROVIDE A 1000 mm LEVEL WORKING AREA AROUND ALL SIDES OF EACH STRUCTURE. DETAILS OF EARTHWORKS SHALL BE SPECIFIED BY THE USER IN THE SITE SPECIFIC DESIGN.
- 9. ARRANGEMENT OF IMH AND WET WELL COMPONENTS
  - i) THE DEPTH OF IMH AND WET WELL IS SET BY ASSEMBLING VARIOUS PRECAST SHAFT RING COMPONENTS NOMINATED IN THE SCHEDULE ON DTC/6021 TO PROVIDE THE DEPTH NEEDED TO LOCATE BASE RING PENETRATION AT THE LEVEL OF OR BELOW THE LEVEL OF THE MINIMUM INCOMING SEWER.
  - ii) THE PRECAST SHAFT RINGS HAVE SET HEIGHTS OF 900, 1800 AND 2400mm. THIS MAY RESULT IN THE ACTUAL DEPTH OF THE IMH AND WET WELL BEING GREATER THAN THE MINIMUM DEPTH REQUIRED. THE USER MAY ELECT TO RAISE SURFACE LEVELS TO MATCH THE INCOMING SEWER TO THE ARRANGEMENT OF THE PRE-CAST SHAFT RINGS OR WIRE SAW CUT THE TOP RING SHORT AT GROUND LEVEL.
  - iii) THE GENERAL ARRANGEMENT OF IMH AND WET WELL SHAFT RINGS IS SHOWN IN DRG NO. DTC/6010 AND COMPRISE AS A MINIMUM OF:
    - TOP/STANDRADR SHAFT RING 900mm OR 1800mm OR 2400mm HIGH
    - HIGH LEVEL SHAFT RING 1800mm OR 2400mm HIGH
    - BASE SHAFT RING 1800mm OR 2400mm HIGH
  - iv) ADDITIONAL STANDARD SHAFT RINGS SHALL BE PROVIDED TO PROVIDE SUFFICIENT DEPTH WHERE REQUIRED. THE LOCATION OF STANDARD SHAFT RINGS USED IN THE IMH AND WET WELL SHALL BE AS SHOWN IN DRG NO DTC/6010. THIS SHALL ENSURE THAT THE INCOMING HIGH LEVEL SEWER LINE IS INSTALLED IN CORRESPONDING LOCATIONS.
  - v) ENGINEER REQUIRED TO SPECIFY THE BASE SHAFT RING HEIGHT IN THEIR DESIGN CONSIDERING THE OPERATING PUMP LEVELS AND FREQUENCY OF CUT IN/CUT OUT.
  - vi) THE OBVERT OF THE HIGH LEVEL SEWER LINE AT THE IMH SHALL BE INSTALLED AT LEAST 150mm BELOW THE SPS OVERFLOW WEIR CREST LEVEL IN ACCORDANCE WITH WSA04.
- 10. PENETRATIONS OF PRECAST SHAFT RINGS FOR PIPE CONNECTIONS ARE EITHER CORED ON SITE OR BLOCKOUTS CAST AT THE TIME OF MANUFACTURE. LOCATIONS OF ALL PENETRATIONS SHALL BE SPECIFIED BY THE USER, SUBJECT TO LIMITATIONS SHOWN IN DTC/6021, AND DTC/6022. WHERE BLOCKOUTS ARE REQUIRED, PRECAST SHAFT RINGS SHALL BE SELECTED WITH THE APPROPRIATE BLOCKOUT SIZE BASED ON PIPE SIZE AND APPLICATION AS DESCRIBED IN THE TABLE BELOW.PENETRATIONS ARE NOT PERMITTED IN 900mm SHAFT RINGS.

PENETRATION PIPE SIZE	BLOCKOUT DIAMETER, B (REFER DRG. DTC/6021)	PENETRATION DETAIL No. (REFER DRG. DTC/6024-6027)
uPVC DRAIN, ELECTRICAL CONDUITS AND VENT LINE PENETRATIONS		
DN100-DN300	N/A	PENETRATION No.7
SCOURS		
DN100-DN150	N/A	PENETRATION No.3
PRESSURE PIPE PENETRATIONS – WET WELL/VALVE CHAMBER		
DN80-DN150	N/A	PENETRATION No.6
DN200-DN300	550-600	PENETRATION No.5
GRAVITY PIPE PENETRATIONS TO ALL STRUCTURES		
DN100-DN150	N/A	IMH – LOW LEVEL INLET/S, WET WELL HIGH LEVEL , – PENETRATION No. 3 IMH HIGH LEVEL & WET WELL LOW LEVEL – PENETRATION NO. 6
DN200 – DN300	550-600	IMH LOW LEVEL INLET/S, WET WELL HIGH LEVEL , – PENTRATION No. 2 IMH HIGH LEVEL & WET WELL LOW LEVEL – PENTRATION NO. 5
DN375 – DN525	800-850	IMH LOW LEVEL INLET/S, WET WELL HIGH LEVEL , – PENETRATION NO. 1 IMH HIGH LEVEL & WET WELL LOW LEVEL – PENETRATION NO. 4
OVERFLOW GRAVITY PENETRATIONS – EMERGENCY RELIEF PIPEWORK		
DN300	550-600	IMH – PENETRATION NO. 8, ERS INLET – PENETRATION NO. 9 ERS OUTLET – PENETRATION NO. 8
DN375-DN600	800-850	IMH – PENETRATION NO. 8, ERS INLET – PENETRATION NO. 9 ERS OUTLET – PENETRATION NO. 8

11. FLOTATION OF STRUCTURES BELOW GROUND BASED ON GROUND WATER TABLE AT SURFACE

- i) THE IMH, ERS AND VALVE CHAMBER HAVE BEEN DESIGNED TO RESIST BUOYANCY FORCES DUE TO EXTERNAL GROUNDWATER BY ENGAGING THE SURROUNDING SOIL THROUGH THE OVERSIZED BASE SLAB.
- ii) WHERE THE BASE SLAB DESIGN PROVIDED ON DRG NO. DTC/6005c IS BASED ON THE WET WELL BEING CONSTRUCTED USING AN OPEN EXCAVATION, ALL SHORING USED TO SUPPORT THE EXCAVATIONS SHALL BE REMOVED.
- iii) WHERE SUITABLE ROCK IS PRESENT, ADHESION BETWEEN THE WET WELL STRUCTURE AND ROCK SURFACE MAY BE UTILISED TO RESIST FLOTATION AS SHOWN IN DTC-V/6005c AND DTC/6014. SUITABILITY OF THE ROCK TO CATER FOR BUOYANCY FORCES IS TO BE DETERMINED BY A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH SYDNEY WATER COMPETENCY STANDARD.
- iv) ALTERNATIVELY, THE USER MAY SPECIFY SOIL OR ROCK ANCHORS TO RESIST FLOTATION AS SHOWN INDICATIVELY ON DTC/6005c. IN DOING SO, USER IS RESPONSIBLE FOR THE SITE SPECIFIC ANCHOR DESIGN AND SHALL PROVIDE ALL NECESSARY CONSTRUCTION DETAILS INCLUDING ANCHOR DETAILS, BASE SLAB MODIFICATION DETAILS AND ANY OTHER DETAILS AS REQUIRED.

12. ANY DEVIATION FROM THE DESIGN SHALL BE REFERRED TO SYDNEY WATER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.

REFERENCE DRAWINGS:

DTC/6001	SEWAGE PUMPING STATION – COVER SHEET – INSTRUCTIONS & DRAWING LIST
DTC/6002	SEWAGE PUMPING STATION – GENERAL NOTES
DTC/6003	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 1 - SITE PLAN
DTC/6004	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 1 - GENERAL ARRANGEMENT PLAN
DTC/6005	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 2 - SITE PLAN
DTC/6006	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 2 - GENERAL ARRANGEMENT PLAN
DTC/6007	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 3 - SITE PLAN
DTC/6008	SEWAGE PUMPING STATION – EXAMPLE SITE LAYOUT 3 - GENERAL ARRANGEMENT PLAN
DTC/6009	SEWAGE PUMPING STATION – GENERAL ARRANGEMENT – SITE SECTIONS
DTC/6010	SEWAGE PUMPING STATION – GENERAL ARRANGEMENT OF PRECAST COMPONENTS
DTC/6011	SEWAGE PUMPING STATION – EXAMPLE PUMP STATION LAYOUT GENERAL ARRANGEMENT PLAN
DTC/6012	SEWAGE PUMPING STATION – WET WELL DN3600, GENERAL ARRANGEMENT PLAN
DTC/6013	SEWAGE PUMPING STATION – WET WELL DN3600, GENERAL ARRANGEMENT SECTION & DETAILS
DTC/6014	SEWAGE PUMPING STATION – VALVE CHAMBER – GENERAL ARRANGEMENT
DTC/6015	SEWAGE PUMPING STATION – VALVE CHAMBER – CONCRETE & REINFORCEMENT DETAIL – PLAN, SECTION & DETAILS
DTC/6016	SEWAGE PUMPING STATION – INLET MAINTENANCE HOLE (IMH) – DN1800 – GENERAL ARRANGEMENT
DTC/6017	SEWAGE PUMPING STATION – GAS CHECK MAINTENANCE HOLE – DN1800 – GENERAL ARRANGEMENT
DTC/6018	SEWAGE PUMPING STATION – WET WELL ROOF SLAB – DN3600- GENERAL PLAN AND REINFORCEMENT DETAIL
DTC/6019	SEWAGE PUMPING STATION – IMH AND GAS CHECK MH ROOF SLAB – DN1800 – GENERAL PLAN AND REINFORCEMENT DETAIL
DTC/6020	SEWAGE PUMPING STATION – PRECAST SHAFT RING ARRANGEMENT – DETAILS
DTC/6021	SEWAGE PUMPING STATION – PRECAST SHAFT RING ARRANGEMENT – SCHEDULE
DTC/6022	SEWAGE PUMPING STATION – PRECAST SHAFT RING – BLOCKOUT ARRANGEMENT PLAN
DTC/6023	SEWAGE PUMPING STATION – PRECAST COMPONENT CONNECTION – DETAILS
DTC/6024	SEWAGE PUMPING STATION – PIPEWORK PENETRATION – DETAILS SHEET 1 OF 3
DTC/6025	SEWAGE PUMPING STATION – PIPEWORK PENETRATION – DETAILS SHEET 2 OF 3
DTC/6026	SEWAGE PUMPING STATION – PIPEWORK PENETRATION – DETAILS SHEET 3 OF 3
DTC/6027	SEWAGE PUMPING STATION – EMERGENCY RELIEF PIPEWORK – DETAILS
DTC/6028	SEWAGE PUMPING STATION – WET WELL DN3600, ACCESS HATCHES & SAFETY GRILLES – ARRANGEMENT
DTC/6029	SEWAGE PUMPING STATION – WET WELL DN3600, ACCESS HATCHES & SAFETY GRILLES – SECTIONS
DTC/6030	SEWAGE PUMPING STATION – WET WELL DN3600, ACCESS HATCHES & SAFETY GRILLES – DETAILS
DTC/6031	SEWAGE PUMPING STATION – WET WELL DN3600, ACCESS HATCHES & SAFETY GRILLES – DETAILS
DTC/6032	SEWAGE PUMPING STATION – WET WELL DN3600, ACCESS HATCHES & SAFETY GRILLES – DETAILS
DTC/6033	SEWAGE PUMPING STATION – ACCESS HATCHES & SAFETY GRILLES – TYPICAL DETAILS
DTC/6034	SEWAGE PUMPING STATION – VALVE CHAMBER – ACCESS HATCH AND COVERS – PLAN AND SECTIONS
DTC/6035	SEWAGE PUMPING STATION – VALVE CHAMBER – ACCESS HATCH AND COVERS – SUPPORT STEELWORK & COVER DETAILS
DTC/6036	SEWAGE PUMPING STATION – VALVE CHAMBER – LADDER DETAILS
DTC/6037	SEWAGE PUMPING STATION – IMH AND GAS CHECK MH – ACCESS HATCHES & SAFETY GRILLES – DETAILS
DTC/6038	SEWAGE PUMPING STATION – IMH AND GAS CHECK MH – LADDER DETAILS
DTC/6039	SEWAGE PUMPING STATION – PIPEWORK BRACKET DETAILS
DTC/6040	SEWAGE PUMPING STATION – PIPEWORK MISCELLANEOUS DETAILS
DTC/6041	SEWAGE PUMPING STATION – BYPASS – GENERAL ARRANGEMENT & DETAILS
DTC/6042	SEWAGE PUMPING STATION – PIPEWORK – SCHEDULE 1 OF 2
DTC/6043	SEWAGE PUMPING STATION – PIPEWORK – SCHEDULE 2 OF 2
DTC/6044	SEWAGE PUMPING STATION – DN50 SINGLE RPZD GENERAL ARRANGEMENT
DTC/6045	SEWAGE PUMPING STATION – DN50 & DN25 DUAL RPZD GENERAL ARRANGEMENT
DTC/6046	SEWAGE PUMPING STATION – RPZD DETAILS
DTC/6047	SEWAGE PUMPING STATION – ANCHOR POINT AND MISCELLANEOUS DETAILS
DTC/6048	SEWAGE PUMPING STATION – INDUCT VENT DETAILS
DTC/6049	SEWAGE PUMPING STATION – ELECTRICAL KIOSK SHADE STRUCTURE – STEELWORK DETAILS
DTC/6050	SEWAGE PUMPING STATION – MISCELLANEOUS LABELS & SIGNAGE DETAILS

SUPPORT DRAWINGS:

DTC/1110	THRUST BLOCK DETAILS – DICL AND PVC WATER MAINS ≤ DN300 – HORIZONTAL BENDS TYPE 1
DTC/1113	THRUST BLOCK DETAILS – DICL AND PVC WATER MAINS ≤ DN300 – TEES
DTC/1115	ANCHOR DETAILS – DICL AND PVC WATER MAINS ≤ DN300 – STOP VALVES
DTC/1145	WATER MAINS – PN16 FLANGE CONNECTION DETAILS – DN100 TO DN750 – SHEET 1 OF 2
DTC/1146	WATER MAINS – PN16 FLANGE CONNECTION DETAILS – DN100 TO DN750 – SHEET 2 OF 2
DTC/2300	VENT SHAFT – STAINLESS STEEL 9-18mm HEIGHT – DN150-DN300 – SHEET 1 OF 2
DTC/2301	VENT SHAFT – STAINLESS STEEL 9-18mm HEIGHT – DN150-DN300 – SHEET 2 OF 2
DTC/3300	ACCESS HATCHES & SAFETY GRILLES – ARRANGEMENT & DETAILS – SHEET 1 OF 4
DTC/3301	ACCESS HATCHES & SAFETY GRILLES – ARRANGEMENT & DETAILS – SHEET 2 OF 4
DTC/3302	ACCESS HATCHES & SAFETY GRILLES – ARRANGEMENT & DETAILS – SHEET 3 OF 4
DTC/3303	ACCESS HATCHES & SAFETY GRILLES – ARRANGEMENT & DETAILS – SHEET 4 OF 4
DTC/5000	INTRUDER RESISTANT PERIMETER BARRIER TYPE 1 CHAIN LINK FABRIC SECURITY FENCE & GATES – SHEET 1 OF 2
DTC/5001	INTRUDER RESISTANT PERIMETER BARRIER TYPE 1 CHAIN LINK FABRIC SECURITY FENCE & GATES – SHEET 2 OF 2
DTC/5003	INTRUDER RESISTANT PERIMETER BARRIER TYPE 2 PALISADE SECURITY FENCE & GATES – SHEET 1 OF 4
DTC/5004	INTRUDER RESISTANT PERIMETER BARRIER TYPE 2 PALISADE SECURITY FENCE & GATES – SHEET 2 OF 4
DTC/5005	INTRUDER RESISTANT PERIMETER BARRIER TYPE 2 PALISADE SECURITY FENCE & GATES – SHEET 3 OF 4
DTC/5006	INTRUDER RESISTANT PERIMETER BARRIER TYPE 2 PALISADE SECURITY FENCE & GATES – SHEET 4 OF 4
DTC/5008	INTRUDER RESISTANT PERIMETER BARRIER TYPE 3 WELDMESH SECURITY FENCE & GATES – SHEET 1 OF 3
DTC/5009	INTRUDER RESISTANT PERIMETER BARRIER TYPE 3 WELDMESH SECURITY FENCE & GATES – SHEET 2 OF 3
DTC/5010	INTRUDER RESISTANT PERIMETER BARRIER TYPE 3 WELDMESH SECURITY FENCE & GATES – SHEET 3 OF 3
DTC/5012	INTRUDER RESISTANT PERIMETER BARRIER TYPE 4 BOUNDARY FENCE & GATES – SHEET 1 OF 4
DTC/5013	INTRUDER RESISTANT PERIMETER BARRIER TYPE 4 BOUNDARY FENCE & GATES – SHEET 2 OF 4
DTC/5014	INTRUDER RESISTANT PERIMETER BARRIER TYPE 4 BOUNDARY FENCE & GATES – SHEET 3 OF 4
DTC/5015	INTRUDER RESISTANT PERIMETER BARRIER TYPE 4 BOUNDARY FENCE & GATES – SHEET 4 OF 4

Sydney

WATER

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APPROVED

NORBERT SCHAEPER

MANAGER – ENGINEERING

ENGINEERING & TECHNICAL SUPPORT

B

GENERAL UPDATE

N.S.

25/06/21

A

ORIGINAL ISSUE

KW

22/06/15

LETTER

DETAILS OF ISSUE / AMENDMENT

APP'D

DATE

DEEMED TO COMPLY DRAWINGS

SEWAGE PUMPING STATION  
COVER SHEET  
INSTRUCTIONS & DRAWING LIST

DTC

6001

ISSUE

B

DATE

25/06/21