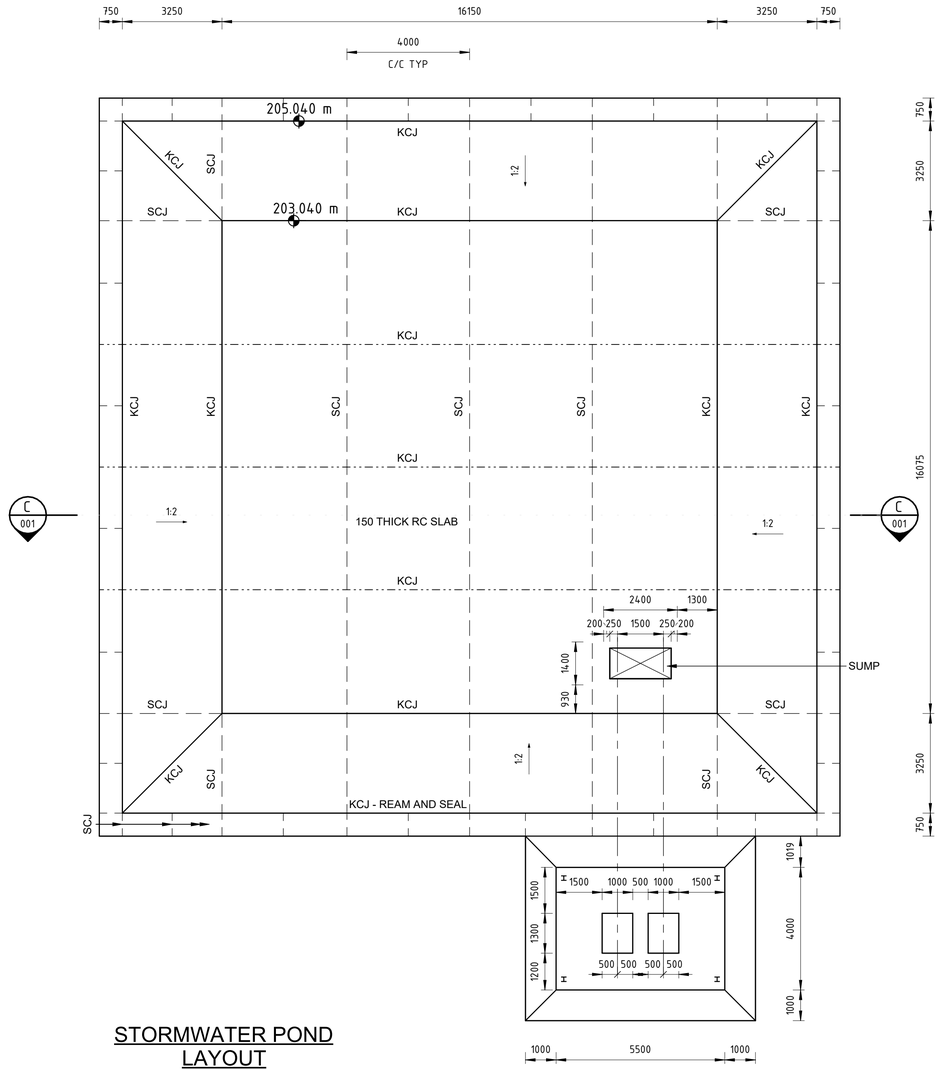
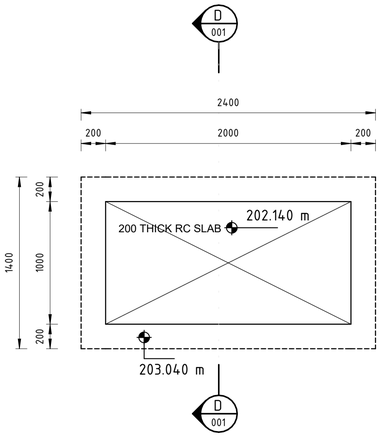


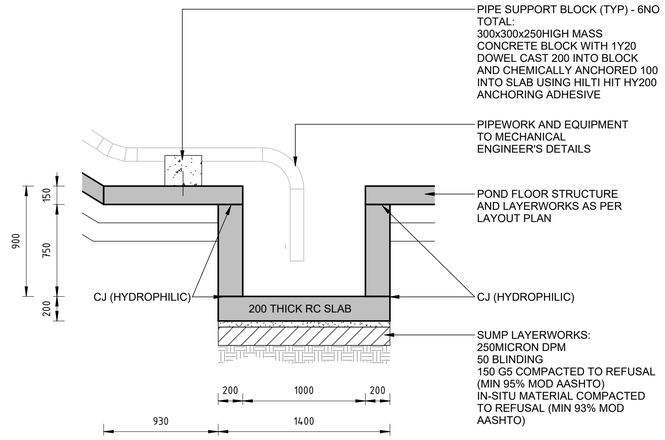
STORMWATER POND LAYOUT

1 : 100



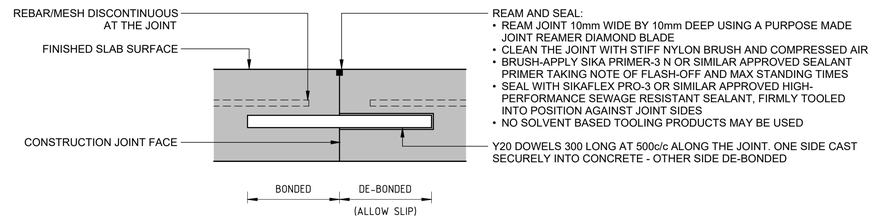
STORMWATER POND SUMP

SCALE 1 : 25



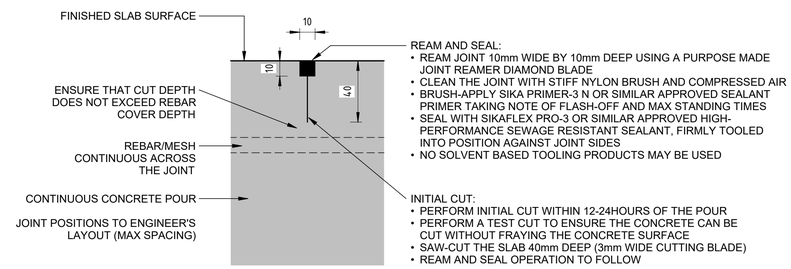
Section D-D

SCALE 1 : 25



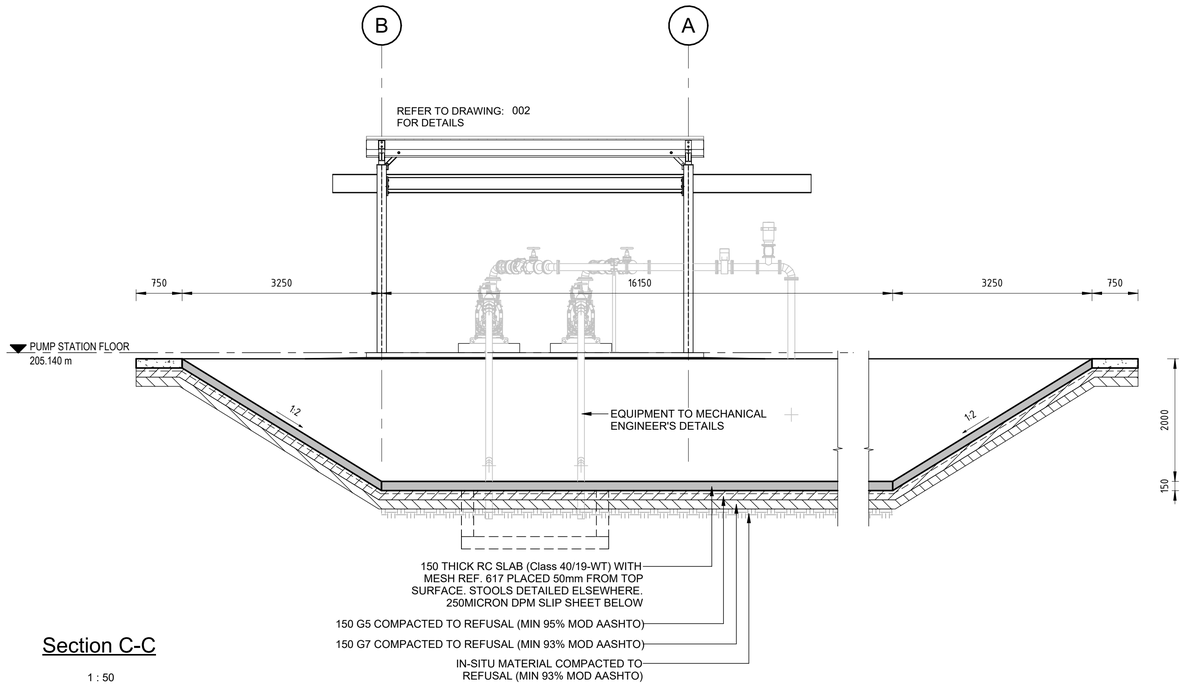
KEYED CONSTRUCTION JOINT (KCJ) - TYPICAL SECTION

SCALE 1 : 5



SAW-CUT JOINT (SCJ) - TYPICAL SECTION

SCALE 1 : 2



Section C-C

1 : 50

NOTES

GENERAL

1.1. THESE NOTES ARE COMPLEMENTARY TO THE SPECIFICATIONS AND SHALL GOVERN IN CASE OF ANY CONFLICTS.
1.2. ALL SETTING-OUT DIMENSIONS SHALL BE CHECKED ON SITE BY THE CONTRACTOR.
1.3. BUILDING WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
1.4. ANY ERRORS OR DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
1.5. ALL EXCAVATIONS SHALL BE MADE GOOD USING MASS CONCRETE AT THE CONTRACTOR'S COST.
1.6. ANY ADVERSE PHYSICAL CONDITIONS ENCOUNTERED DURING EXCAVATION, INCLUDING ROCK OR GROUNDWATER, SHALL BE REPORTED TO THE ENGINEER FOR INSTRUCTION.

CONCRETE

2.1. NO-FINES CONCRETE, WHERE STRUCTURAL CONCRETE IS TO BE PLACED ON TOP, SHALL BE FINISHED WITH A SKIMMED COAT AS PER PROJECT SPECIFICATIONS.
2.2. CONCRETE SHALL BE MECHANICALLY COMPACTED USING VIBRATORS.
2.3. CONCRETE SHALL BE CAST CONTINUOUSLY. IF STOPPAGES OF MORE THAN 40 MINUTES ARE UNAVOIDABLE, CONSTRUCTION JOINTS SHALL BE FORMED IN THE POSITION AND ACCORDING TO THE DETAILS AS PER PROJECT SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED.
2.4. OPENINGS IN CONCRETE WALLS TO BE GROUTED WITH ANTI-CORROSION GROUT AS PER PROJECT SPECIFICATION AFTER THE INSTALLATION OF THE PIPEWORK.
2.5. ALL CONCRETE TOP EDGES TO RECEIVE A 20x20mm CHAMFER.
2.6. A CLASS U3 SURFACE FINISH, INCLUDING STEEL FLOAT TO SMOOTH SURFACE WITHIN 2mm OF LEVEL, SHALL BE PROVIDED TO ALL TOP OF WALL SURFACES SUPPORTING MECHANICAL COMPONENTS
2.7. STRUCTURE TO BE TESTED FOR WATERTIGHTNESS AS PER THE PROJECT SPECIFICATION. RATE OF FILLING SHOULD NOT EXCEED 2m IN 24 HOURS. FOR 0.2mm CRACK WIDTH, THE STABILIZING PERIOD IS 21 DAYS. AFTER ALLOWING FOR EVAPORATION AND RAINFALL, DROPS IN THE WATER LEVEL MAY NOT TO EXCEED 1/500TH OF THE AVERAGE FULL TANK DEPTH.

REINFORCEMENT

3.1. THE CONTRACTOR SHALL ENSURE THAT ALL REINFORCEMENT IS PROPERLY HELD IN POSITION AND SHALL MAINTAIN THE CONCRETE COVER UTILIZING CONCRETE SPACER BLOCKS.
3.2. UNLESS OTHERWISE SPECIFIED, THE CONCRETE COVER SHALL BE: 50mm
3.3. WELDING, HEAT TREATMENT AND GAS CUTTING OF REINFORCEMENT IS NOT PERMITTED.
3.4 LAP LENGTH SHALL BE 50 TIMES THE REBAR DIAMETER OF THE SMALLER BAR BEING LAPPED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3.5 REBAR LAPS TO BE STAGGERED WHERE POSSIBLE.

STRUCTURE SPECIFIC SPECIFICATIONS:

CONCRETE GRADES:

- POND FLOOR (BASE), SUMP FLOOR AND WALLS:
 GRADE 40/19WT (WATERTIGHT MIX AS PER SPECIFICATIONS)
- BLINDING: GRADE 10/19
- PUMP STATION SLAB, PLINTHS, APRONS: GRADE 30/19

SHUTTERING AND SLAB FINISHES (SANS 2001 CC1):

- SUMP WALLS: ACCURACY II
- STORMWATER POND FLOOR AND SIDE SLOPED SURFACES: WOOD TROWELED FINISH
- PUMP STATION SLABS AND PLINTHS: ACCURACY I STEEL TROWELED FINISH

WHERE WATERTIGHT MIX CONCRETE IS SPECIFIED, GROUT USED FOR CRACK, HONEYCOMB, AND FERRULE REPAIR AND PATCHING TO RECEIVE CRYSTALLISATION WATERPROOFING ADMIXTURE (PENETRON OR SIMILAR APPROVED).

POND STRUCTURE CLASSIFIED AS WATERTIGHT IN TERMS OF SANS 2001 4.7.16 REQUIRING SPECIAL CARE DURING CONSTRUCTION AND JOINT PREPARATION AS PER SPECIFICATIONS

ISSUED FOR INFORMATION

AMENDMENTS			
REV	DATE	DESCRIPTION	INITIALS
0	25/03/2026	ISSUED FOR MEASUREMENT	T.VDK

DRAWING NOTES:
1. DO NOT SCALE THE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
2. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO CONSTRUCTION.
3. ANY DISCREPANCIES, OMISSIONS, OR INCONSISTENCIES ON THE DRAWINGS SHALL BE REPORTED TO THE CONSULTING ENGINEER BEFORE PROCEEDING WITH THE WORKS.
4. THIS DRAWING, OR ANY PORTION THEREOF, SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE WORKS FOR WHICH IT WAS ISSUED.

SERVICE AUTHORITY APPROVAL

POSITION	NAME	DATE	SIGNED

CLIENT(S)

SIGNED _____ DATE _____

PROJECT TITLE

WOODLANDS BULK SEWER UPGRADE AND SMALL-BORE SANITATION SYSTEM REPLACEMENT

DRAWING TITLE

STORMWATER POND

LAYOUT PLAN, SECTIONS, DETAILS

SCALE: AS SHOWN CO-ORD SYSTEM:

PAPER SIZE: A1 WGS 84 - LO27

smec an su company

PR _____

SIGNED _____ DATE _____

PROCESS	NAME	DATE
DESIGNED	T. VAN DER KOLF	2026/03/25
CHECKED	T. VAN DER KOLF	2026/03/25
VERIFIED	T. VAN DER KOLF	2026/03/25
DRAWN	T. VAN DER KOLF	2026/03/25
CHECKED	T. VAN DER KOLF	2026/03/25

SMEC DRAWING NO:

EC0047-STR-SWP-219-001 REV 0