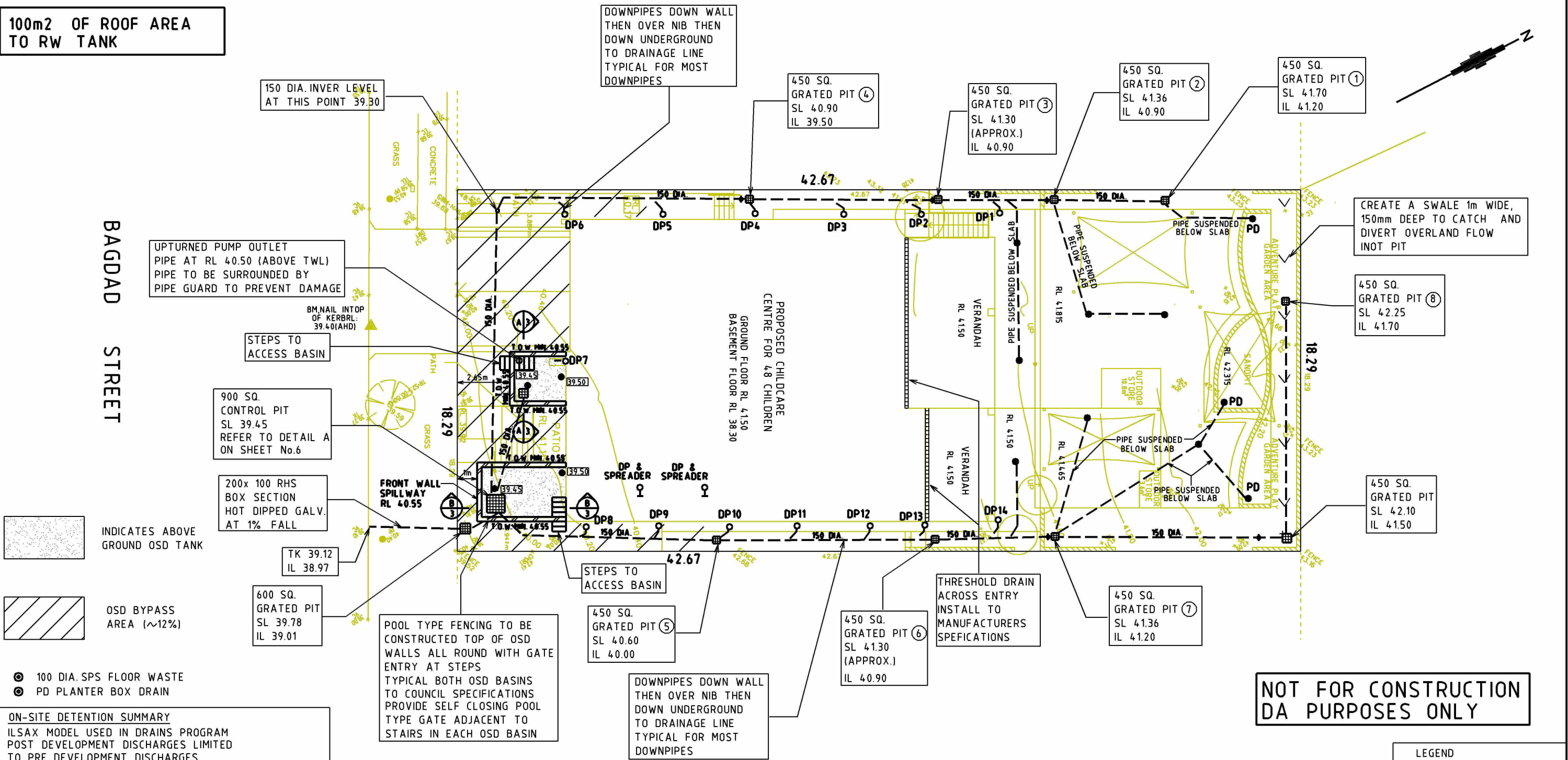


100m² OF ROOF AREA TO RW TANK



BAGDAD STREET

INDICATES ABOVE GROUND OSD TANK

OSD BYPASS AREA (~12%)

100 DIA. SPS FLOOR WASTE
PD PLANTER BOX DRAIN

ON-SITE DETENTION SUMMARY
 ILSAX MODEL USED IN DRAINS PROGRAM
 POST DEVELOPMENT DISCHARGES LIMITED TO PRE DEVELOPMENT DISCHARGES
 FOR ALL ARI'S UP TO 1 IN 100 YEAR
 PRE-DEVELOPMENT 41.7% IMPERVIOUS AREA
 POST-DEVELOPMENT 85% IMPERVIOUS AREA
 SITE AREA = 780m²
 ORIFICE DIAMETER = 97mm
 VOLUME O.S.D. REQUIRED = 10.9m³ + 20%
 VOLUME PROVIDED = 13.0m³
 OSD BASIN AREAS = 4.5 + 9.25 = 13.7m³
 AVERAGE DEPTH = 950mm

| DISCHARGES | PRE-DEVELOPMENT | POST DEVELOPMENT UNIT 2 (+ BYPASS OSD) | TOTAL |
|--------------|-----------------|--|--------|
| 1 IN 5 ARI | 20 l/s | 16 + 4 | 20 l/s |
| 1 IN 10 ARI | 23 l/s | 18 + 4 | 22 l/s |
| 1 IN 20 ARI | 28 l/s | 19 + 5 | 24 l/s |
| 1 IN 100 ARI | 35 l/s | 23 + 6 | 29 l/s |

REFER TO SHEET No.2 FOR DETENTION SYSTEM AT LARGER SCALE

OSD BASIN
 AREA = 4.25m² + 9.25m³ = 13.5m³
 AVERAGE DEPTH = 950mm
 VOLUME PROVIDED = 12.8m³
 VOLUME PROVIDED = 10.9m³ + 20%

DRAINAGE CONCEPT PLAN
 SCALE 1:200

--- GRAVITY LINES
 φ INDICATES VERTICAL DROP IN PIPE TO LOWER LEVELS

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STORMWATER NOTES

- CONTOUR PLAN SUPPLIED BY OTHERS
- ALL STORMWATER PIPES ARE TO BE 150mm DIA. UPVC UNLESS NOTED OTHERWISE.
- DEPTH & LOCATION OF SERVICES TO BE CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS TO ENSURE NO CONFLICT ARISES.
- THESE PLANS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL PLANS.
- FINAL DRAINAGE LINE OUTLET LEVEL & DATUM TO BE EXPOSED & CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF WORKS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
6. SYDNEY WATER TO BE ADVISED & CONSULTED WITH ANY CONSTRUCTION OVER/NEAR SEWER MAIN LINES FOR APPROPRIATE DESIGN REQUIREMENTS.

LEGEND

- DP DOWNPIPE
- ⊕ DOWNPIPE SPREADER
- ⊙ 100 DIA FLOOR WASTE (FW)
- ▬ 200x150 DEEP GRATED BOX DRAIN
- INV INVERT LEVEL (PIPE / PIT)
- 0.00 PROPOSED SURFACE LEVEL
- +0.00 EXISTING REDUCED LEVEL
- S.L. SURFACE LEVEL
- IL. INVERT LEVEL
- F.F.L. FINISHED FLOOR LEVEL
- x- SEDIMENT CONTROL BARRIER
- s- SEWER
- ⊗ INSPECTION OPENING RISER 1/0

DESIGNED & CHECKED BY

 OLIVER DAHER
 B.E. CIVIL
 M.I.E. AUST.

| REV | DESCRIPTION | DESN | CHKD | DATE |
|-----|---------------|------|------|----------|
| B | NEW DESIGN | | | 2.04.24 |
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CLIENT
 TRIPLE-C-HOLDINGS P/L
 TITLE
 H/No.32 BAGDAD STREET, REGENTS PARK

PROJECT
 PROPOSED NEW CHILD CARE CENTRE

| SCALE | ORIGINAL SIZE | DATE |
|-------|---------------|---------|
| 1:200 | A3 | 2.04.24 |

| DRAWN | DESIGNED | INT | CHECKED | INT |
|-------|----------|-----|---------|-----|
| BJC | OD | | OD | |

DRAWING NUMBER
 5518-1 (1 OF 8)

REVISION
 B

BAGDAD STREET

150 DIA. INVER LEVEL AT THIS POINT 39.30

UPTURNED PUMP OUTLET PIPE AT RL 40.50 (ABOVE TWL) PIPE TO BE SURROUNDED BY PIPE GUARD TO PREVENT DAMAGE

BM, NAIL INTO P OF KERB RL: 39.40 (AHD)

STEPS TO ACCESS BASIN

900 SQ. CONTROL PIT SL 39.45 REFER TO DETAIL A ON SHEET No.6


200x 100 RHS BOX SECTION HOT DIPPED GALV. AT 1% FALL

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TK 39.12 IL 38.97

600 SQ. GRATED PIT SL 39.78 IL 39.01

POOL TYPE FENCING TO BE CONSTRUCTED TOP OF OSD WALLS ALL AROUND WITH GATE ENTRY AT STEPS TYPICAL BOTH OSD BASINS TO COUNCIL SPECIFICATIONS PROVIDE SELF CLOSING POOL TYPE GATE ADJACENT TO STAIRS IN EACH OSD BASIN

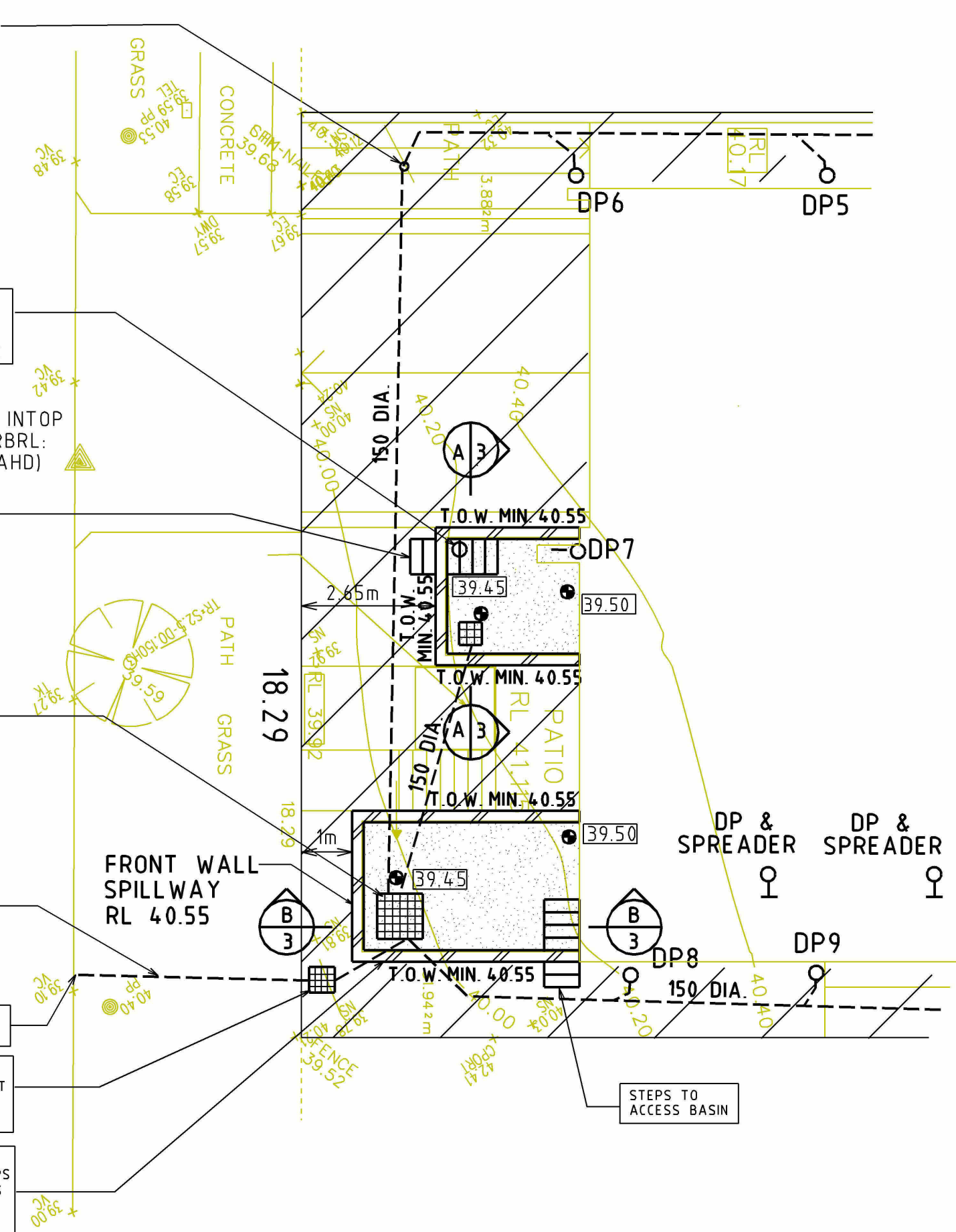
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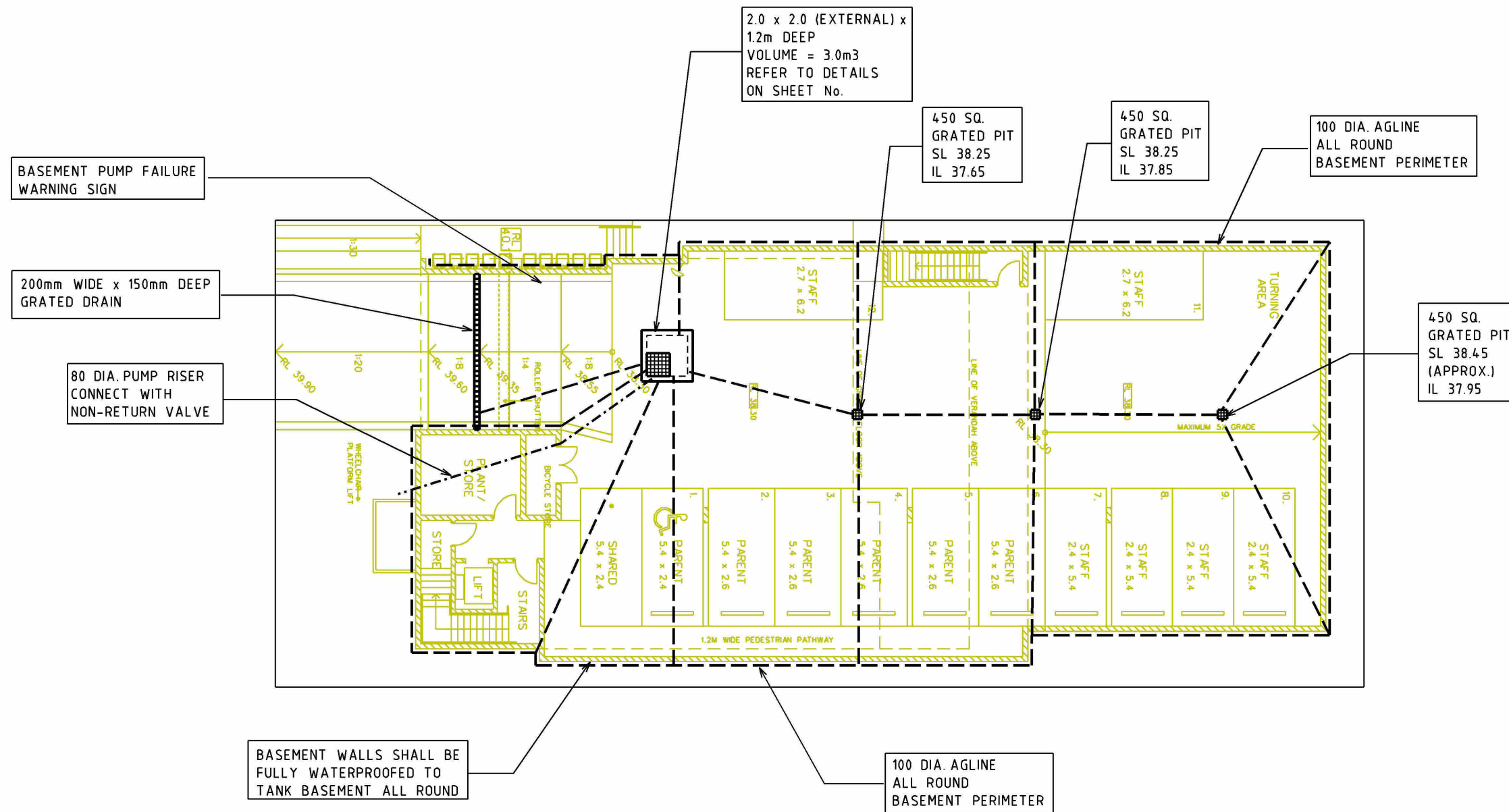
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| BJC | OD | | OD | |
| DRAWING NUMBER | | | | REVISION |
| 5518-2 | | | | B |





BASEMENT DRAINAGE PLAN

SCALE 1:200

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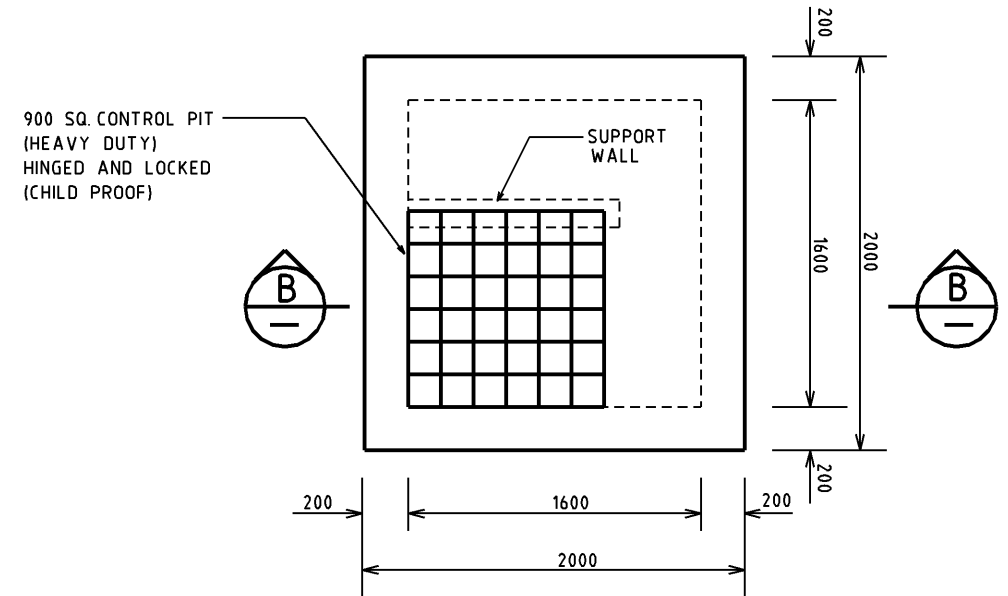
| DRAWING NUMBER | REVISION |
|----------------|----------|
| 5518-3 | B |

PUMP OUT NOTES

1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD AND PUMP LIFE.
2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW-LEVEL FLOAT.
4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
5. AN ALARM SYSTEM SHALL BE PROVIDED WITH FLASHING STROBE LIGHT AND PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
6. CONFINED SPACE SIGN REQUIRED AT ENTRY POINTS INTO PUMP HOLDING TANK.

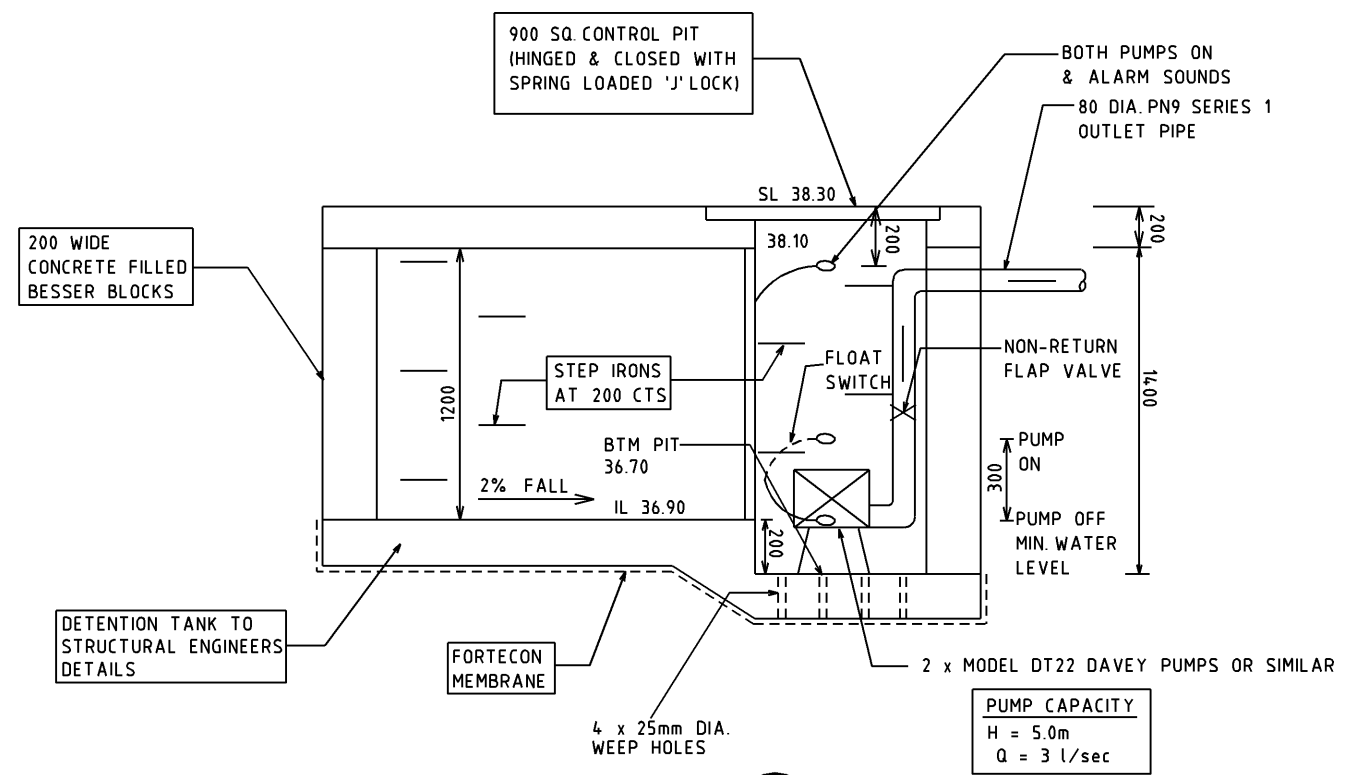
NOTES

- 1 HOLLOW BLOCKS GRADE 12 (AS 1500), F'c=12 MPa
- 2 CLEAN OUT ALL CORES.
- 3 MORTAR 1:4 (CEMENT:SAND)
- 4 GROUT ALL CORES, F'c=12 MPa, SLUMP 230mm, 10mm MAX AGG, IN 600mm MAX LIFTS.
- 5 CONCRETE FOOTINGS F'c=20 MPa
- 6 ALLOWABLE BEARING PRESSURE 150kPa



PUMP OUT PIT IN BASEMENT

VOLUME = 1.6 x 1.6 x 1.2 = 3.0m³



SECTION B

PUMP CAPACITY
H = 5.0m
Q = 3 l/sec

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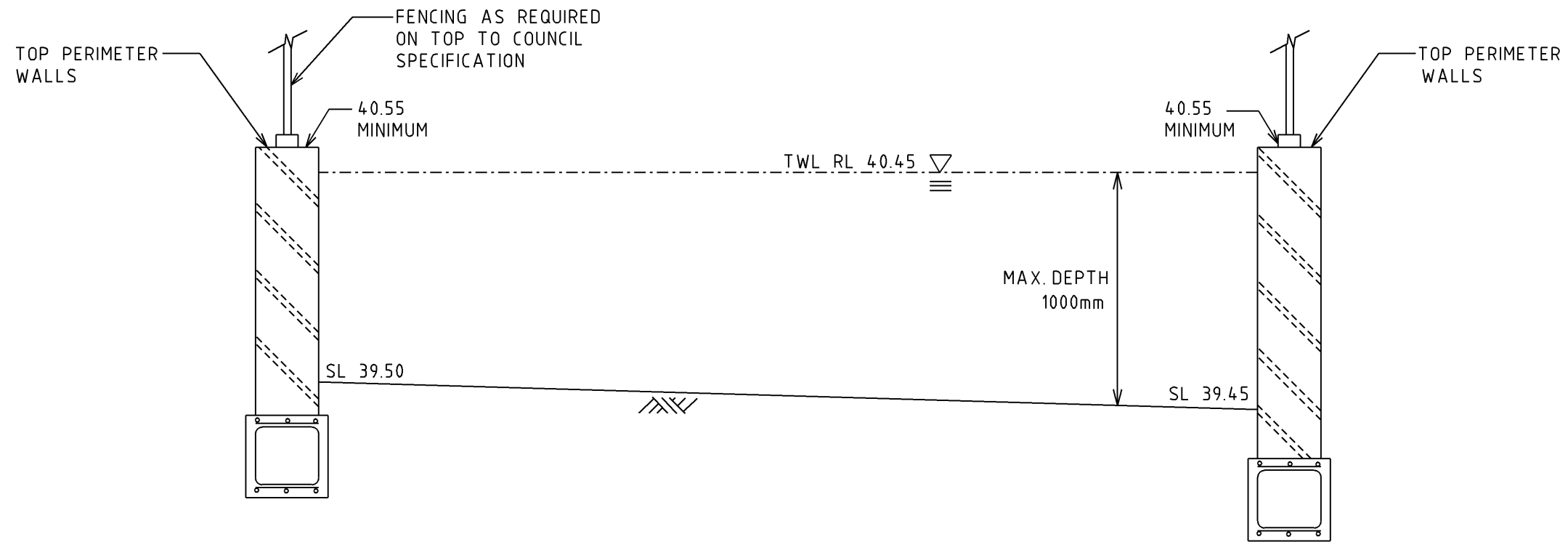
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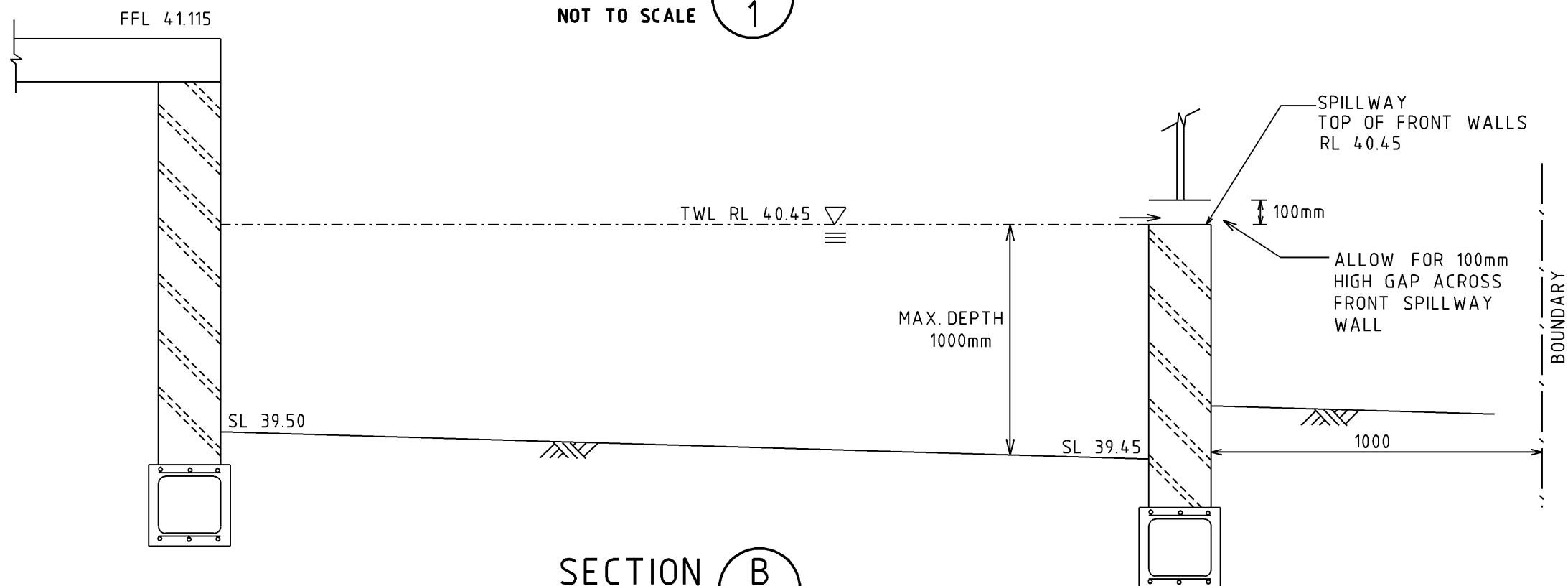
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| DRAWING NUMBER | | | | REVISION |
| 5518-4 | | | | B |



SECTION A
NOT TO SCALE



SECTION B
NOT TO SCALE

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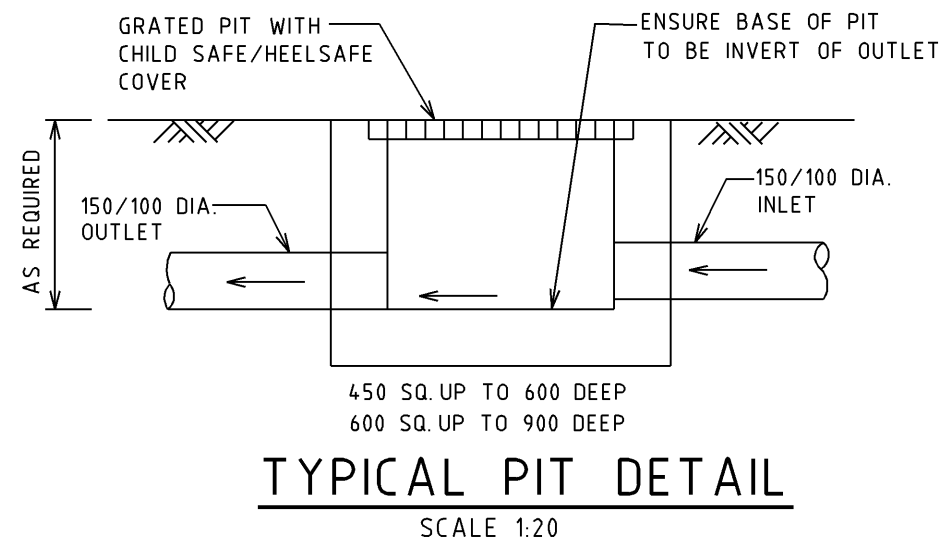
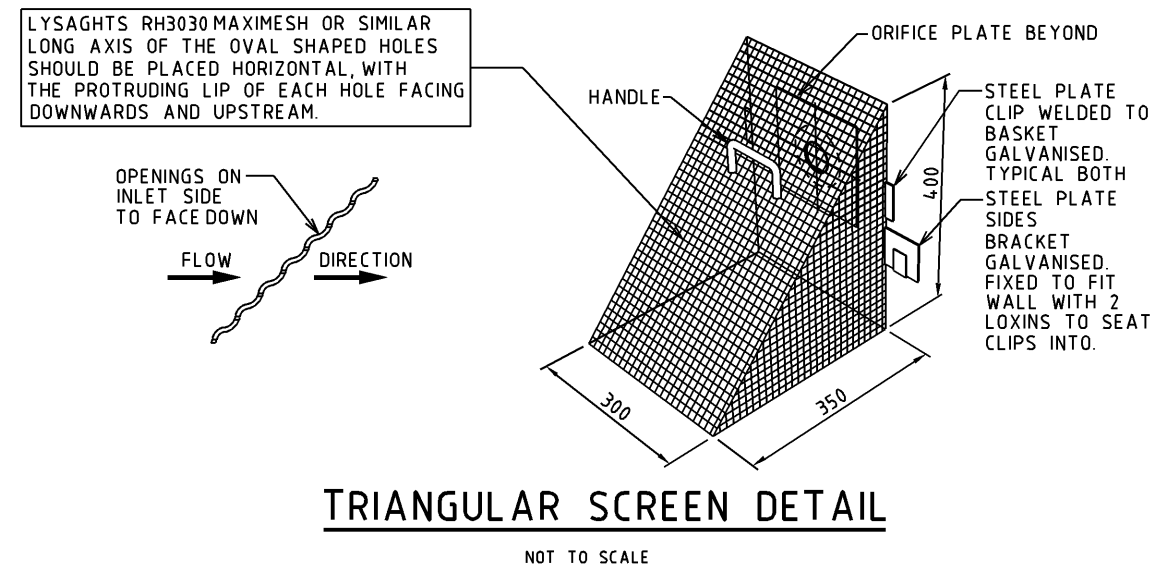
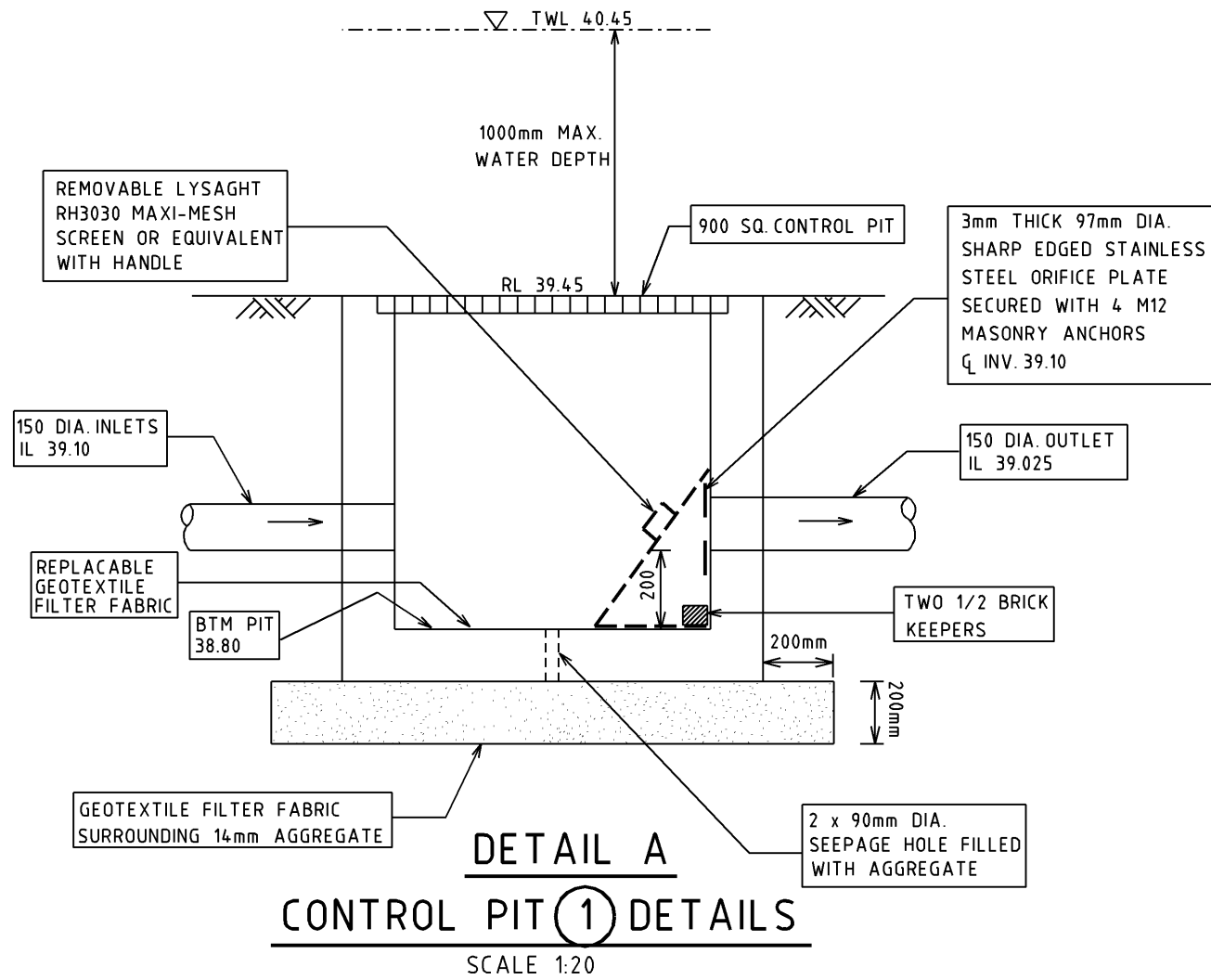
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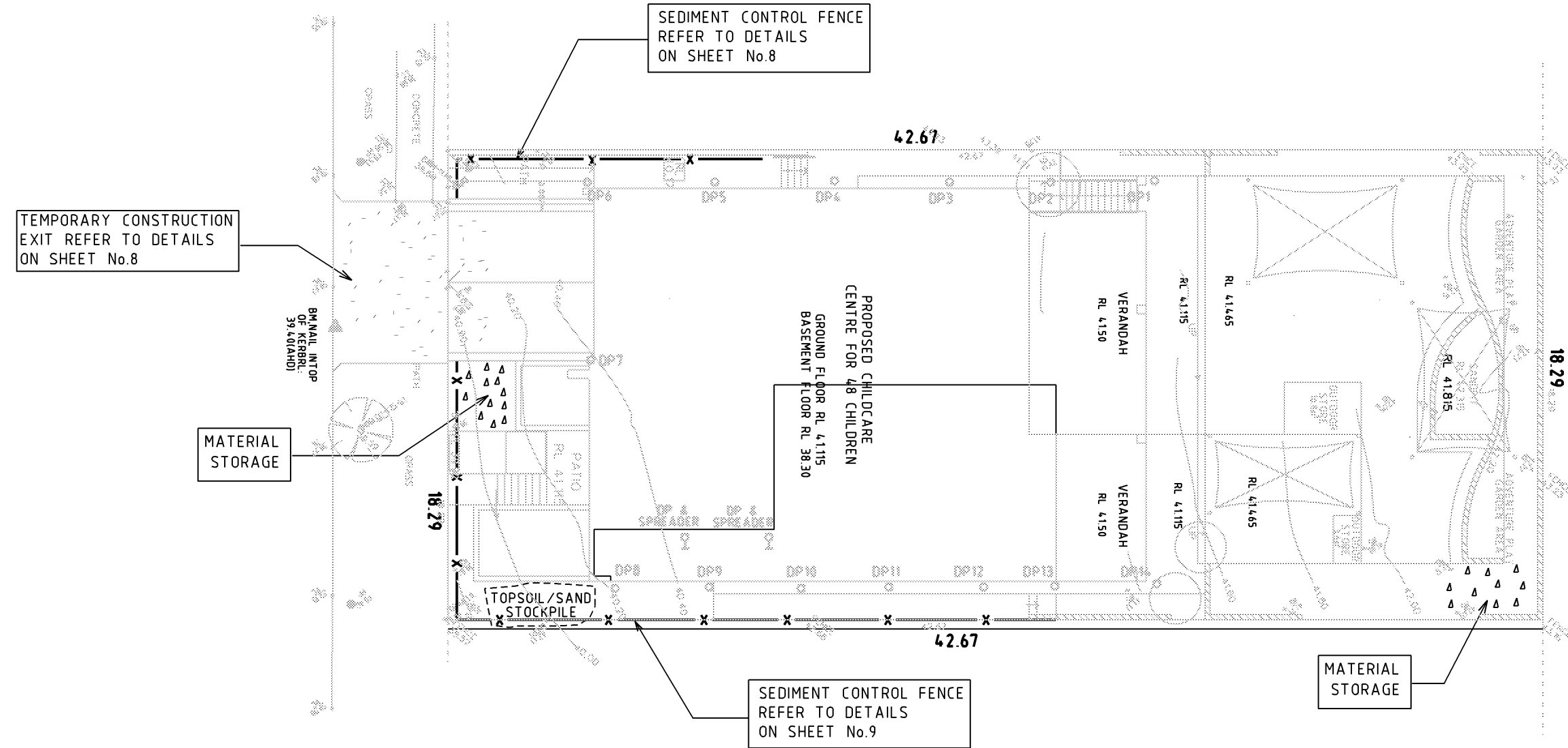
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SEDIMENT CONTROL PLAN

SCALE 1:200

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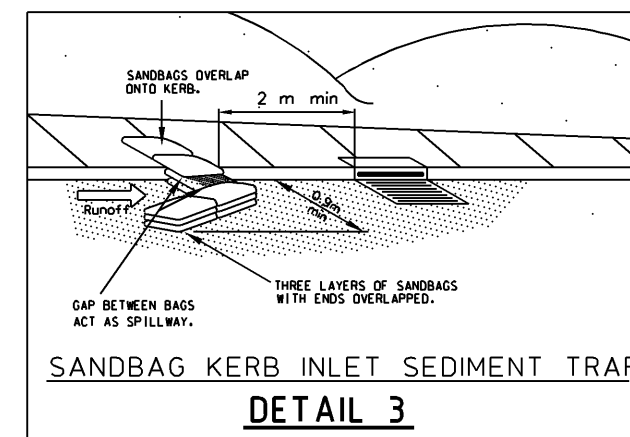
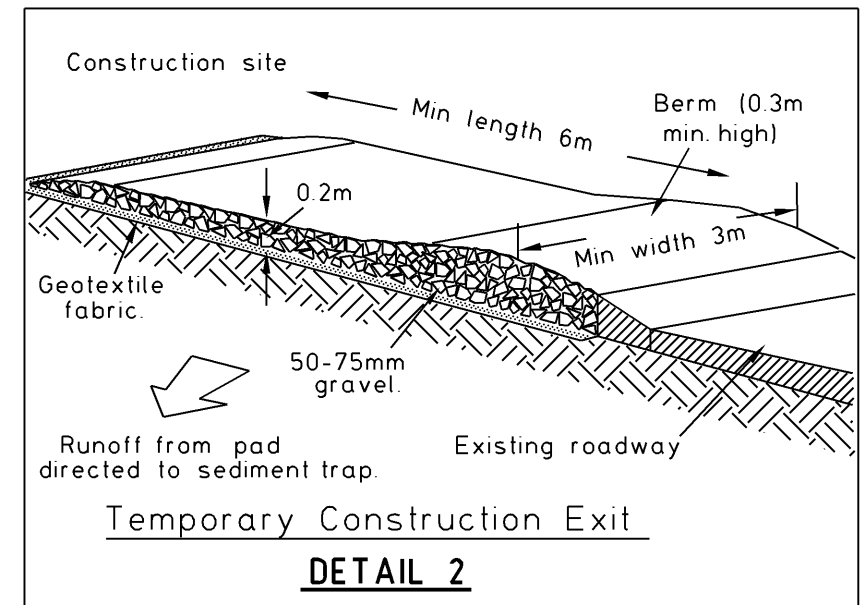
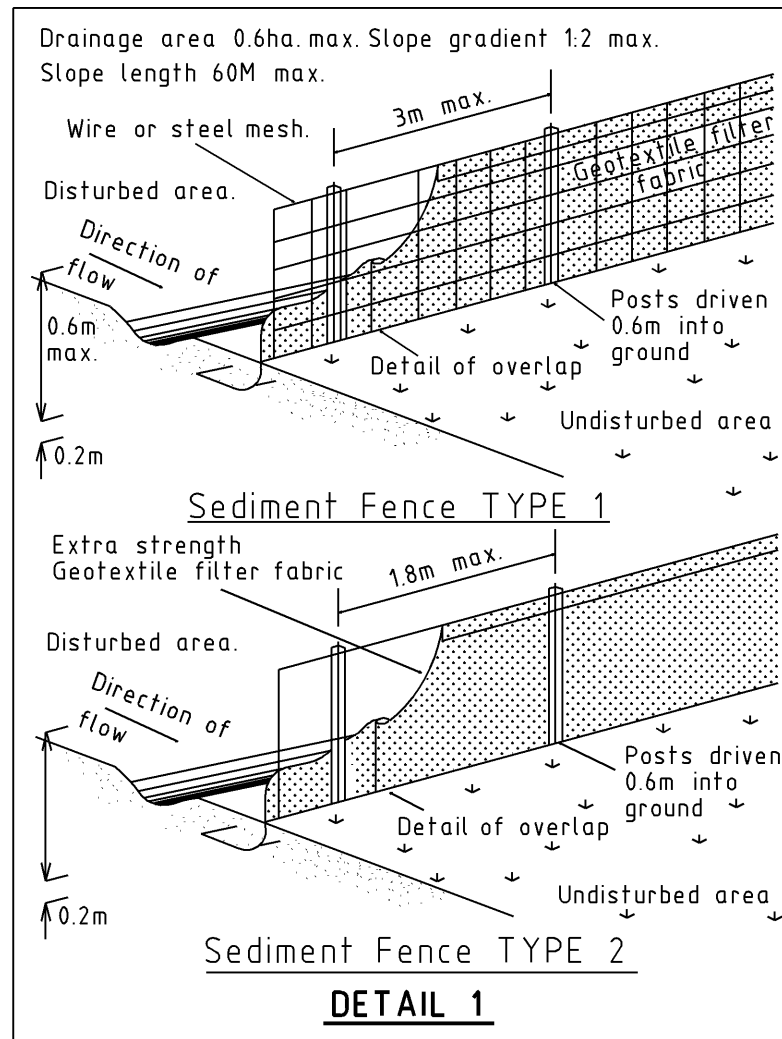
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|-------|----------|-----|---------|-----|
| BJC | OD | | OD | |

| DRAWING NUMBER | REVISION |
|----------------|----------|
| 5518-7 | B |

SEDIMENT FILTER FENCE NOTES

1. SET OUT POSTS ALONG THE LENGTH OF THE PROPOSED FENCE IN THE POSITIONS SHOWN ON THE SITE PLAN. SPACE POSTS A MAXIMUM OF 3m APART AND DRIVE THEM AT LEAST 0.6m INTO THE GROUND. IF EXTRA-STRENGTH OR SELF-SUPPORTING FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POSTS SPACING MUST NOT EXCEED 1.8m. POSTS FOR SEDIMENT FENCES CAN BE EITHER 0.1m DIAMETER WOOD OR EQUIVALENT 105kg/m STEEL WITH A MINIMUM LENGTH OF 1.2m. STEEL POSTS MUST HAVE PROJECTIONS TO WHICH THE WIRE IS FASTENED.
2. EXCAVATE A TRENCH APPROXIMATELY 0.1m WIDE AND 0.2m DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER
3. FASTEN WIRE MESH SECURELY TO THE UPSLOPE SIDE OF THE POSTS. USE HEAVY-DUTY WIRE STAPLES AT LEAST 2.5 CM LONG AND TIE WIRE. EXTEND THE WIRE MESH 0.15m INTO THE TRENCH. WIRE FENCE REINFORCEMENT FOR SEDIMENT FENCES MUST BE A MINIMUM OF 14 GAUGE AND HAVE A MAXIMUM MESH SPACING OF 0.15m
4. FASTEN THE FILTER FABRIC TO THE UPHILL SIDE OF THE FENCE POSTS, AND EXTEND IT 0.2m INTO THE TRENCH. THE HEIGHT OF THE FENCE SHOULD NOT EXCEED 0.6m. DO NOT STAPLE FABRIC ONTO TREES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, SPLICE THE FILTER CLOTH AT A SUPPORT POST, WITH A MINIMUM 0.15m OVERLAP, AND SECURELY FASTEN BOTH ENDS TO THE POST.
5. BACKFILL THE TRENCH OVER THE TOE OF THE FABRIC AND COMPACT THE SOIL.
6. INSPECT AND REPAIR FENCE AFTER EACH RAIN EVENT FOR UNDERCUTTING, SAGGING AND OVERTOPPING



SEDIMENT & EROSION CONTROL DETAILS

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