



# CONCEPT STORMWATER DRAINAGE PLANS

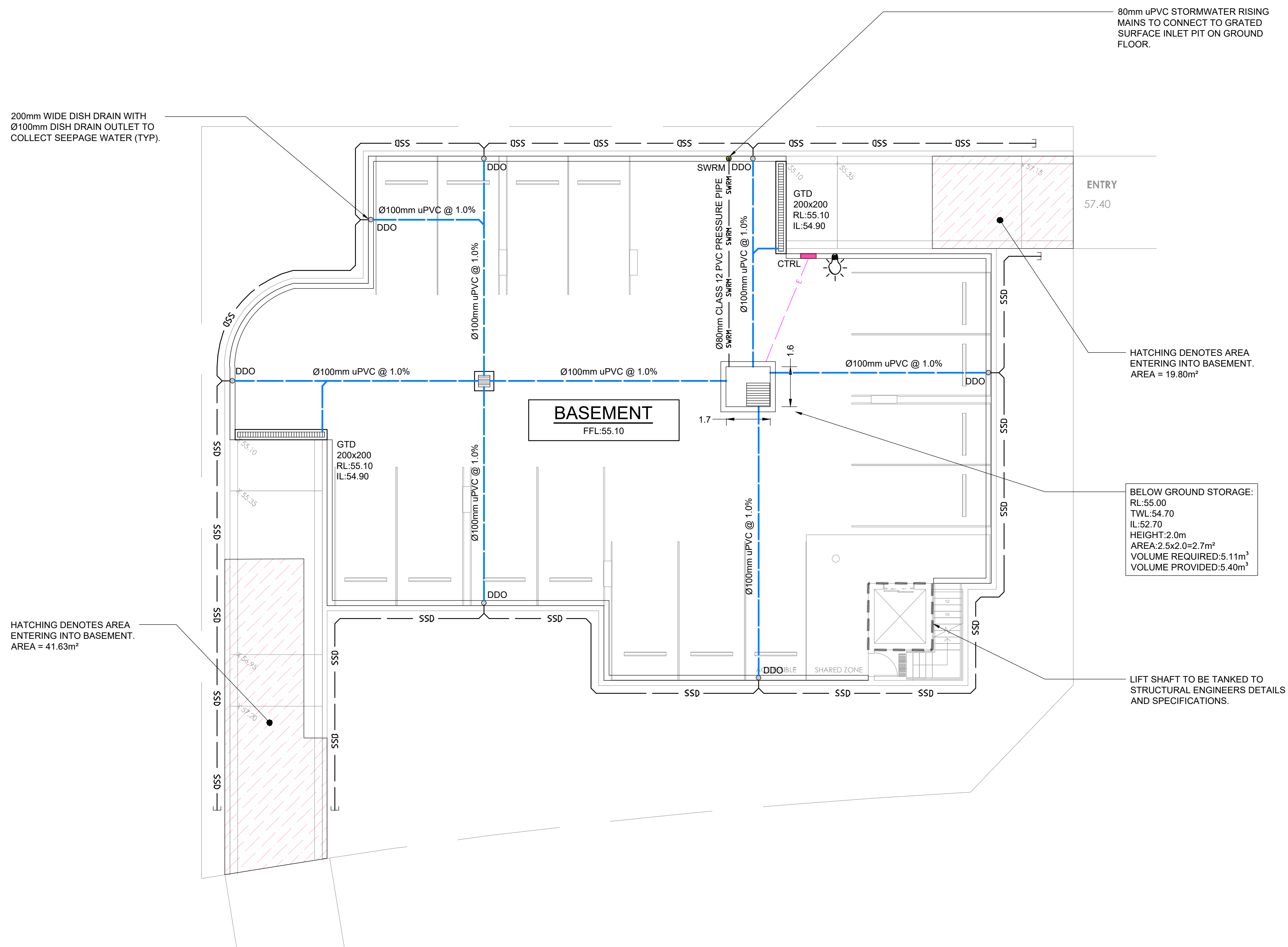
PROPOSED CHILD CARE  
**198 BENNETT ROAD, ST CLAIR NSW 2759**

deboke

REF | SW21052      REVISION | A      CLIENT | SAMER BACHOUR      ARCHITECT | BAINI DESIGN      ENGINEERING CONSULTANTS



| STAMP OF APPROVAL |  |
|-------------------|--|
|                   |  |



### SUBSOIL DESIGN CALCS:

PUMP OUT PIT WAS DESIGNED FOR A 100yr 2hr STORM  
EVENT FOR A MORE CONSERVATIVE STORAGE VOLUME.

100yr 2hr ARI STORM= 41.5mm/hr  
ARIx2=83.0mm  
AREA OF DRIVEWAY  
RAMP UNCOVERED= 61.50m<sup>2</sup>

$$\begin{aligned} V &= A \times d \\ &= 61.5 \times (83/1000) \\ &= 61.5 \times 0.083 \\ &= 5.11 \text{ m}^3 \end{aligned}$$

THEREFORE, STORAGE SATISFIES MINIMUM STORAGE REQUIREMENTS AS PER AS/NZS 3500.3.

BASEMENT NOTES:

BASEMENT DRAINAGE DESIGN SUBJECT TO FURTHER GEOTECHNICAL INVESTIGATION AND CONFIRMATION OF GROUND WATER PRESENCE ON SITE IF GROUND WATER TABLE DETECTED DURING EXCAVATION, STORMWATER ENGINEER TO BE CONTACTED PRIOR TO COMMENCING ANY WORKS.

### KEY NOTES:

STORMWATER RUNOFF FROM VEHICULAR CROSSING FALLS TO BASEMENT & IS COLLECTED BY BASEMENT PUMP OUT PIT.

INSTALL STEP IRONS FOR EASE OF ACCESS DURING MAINTENANCE OF PUMP OUT CONTROL PIT TO COUNCIL SATISFACTION.

INSTALL CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC AWARENESS AND WARNING.

ALL STORMWATER PIPES AND BASEMENT PIPES ARE Ø100mm uPVC AND SLOPING AT 1.0% U.N.O (TYP).

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

PROVIDE CLEAR OUT POINTS FOR INSPECTION & MAINTENANCE PURPOSES WHERE REQUIRED (TYP).

### STANDARD PUMP OUT DESIGN NOTES:

THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER: -

I). THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

II). A 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 AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300MM ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.

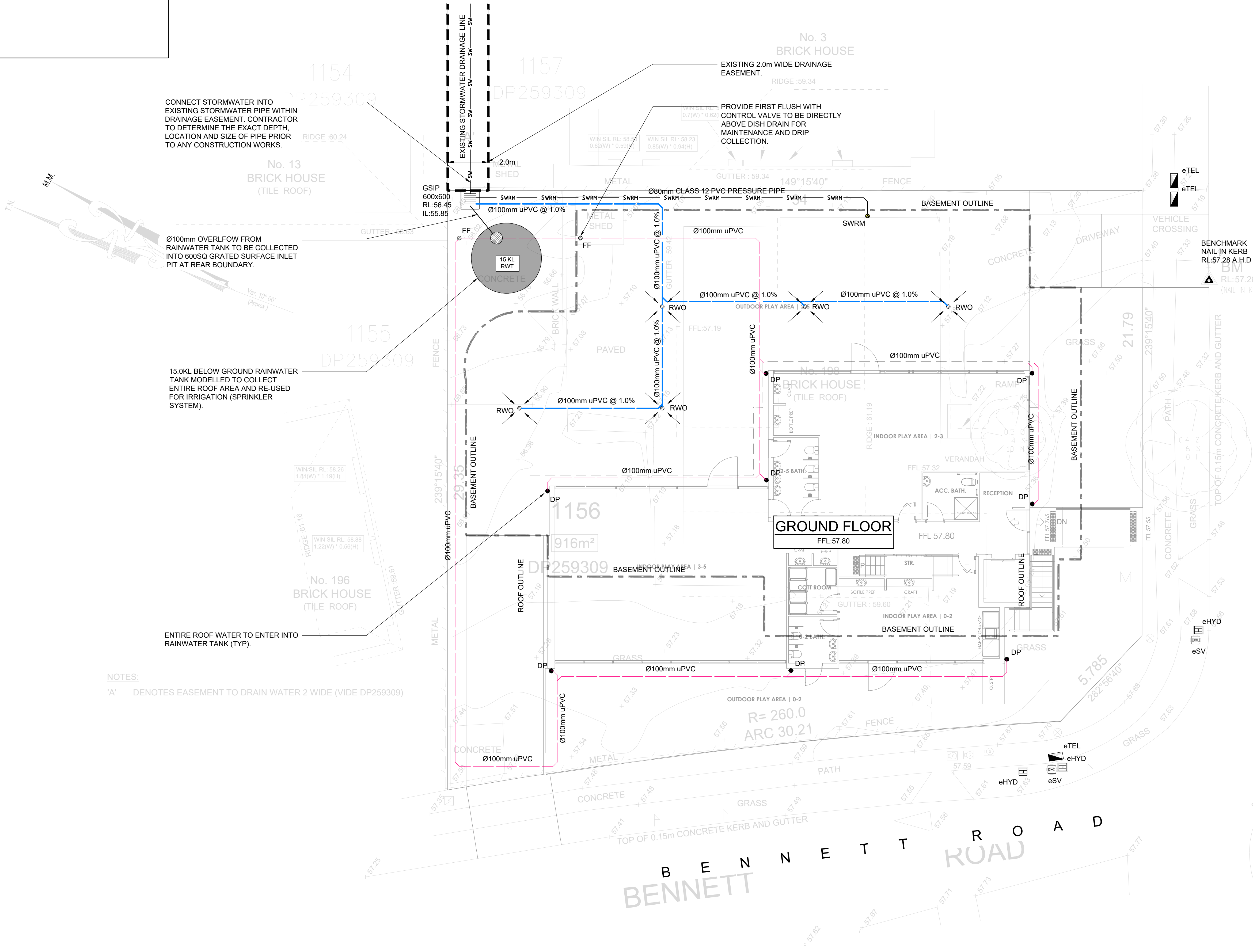
III). A SECOND FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

IV). AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBELIGHT AND A 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.

V). A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINTS TO THE PUMP OUT STORAGE TANK.

|     |               |      |        |            | E: admin@deboke.com.au<br>W: www.deboke.com.au<br>A: 65 Blaxcell Street, Granville NSW 2142<br>M: 0432 225 833 (A.A.), 0404 786 785 (J.D.)                                             | <br><b>ENGINEERING CONSULTANTS</b> | DRAWN: A.A.<br>DESIGNED: J.D.<br>REVIEWED: J.D.           | A.A.<br>DATE: 01.03.2021<br>DATE: 01.03.2021 |  | <b>SAMER BACHOUR</b> |  | PROJECT:<br>PROPOSED CHILD CARE<br>ADDRESS:<br>198 BENNETT ROAD, ST CLAIR<br>APPLICATION:<br>DEVELOPMENT APPLICATION (DA)<br>LGA:<br>PENRITH COUNCIL | TITLE:<br><br><b>BASEMENT PLAN</b> | ALL DIMENSIONS<br>IN 'm'<br>UNLESS OTHERWISE<br>STATED |                               |
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| A   | ISSUED FOR DA | 2    | A.A.   | 01.03.2021 | APPROVAL TYPE:<br>1. PRELIMINARY<br>2. DEVELOPMENT APPLICATION<br>3. COMPLYING DEVELOPMENT<br>4. CONSTRUCTION CERTIFICATE<br>5. FOR TENDER<br>6. OTHER                                 |                                                                                                                        | B.E CIVIL/STRUCTURAL<br>BEng,MIEAust<br>MEMB. NO: 5579488 |                                              |                                                                                       |                      |  |                                                                                                                                                      |                                    |                                                        | DRAWING NO.<br><b>S200</b>    |
| REV | DESCRIPTION   | APP. | DESIGN | DATE       |                                                                                                                                                                                        |                                                                                                                        |                                                           |                                              |                                                                                       |                      |  | ARCHITECT:                                                                                                                                           | CLIENT:                            |                                                        |                               |

STAMP OF APPROVAL



DESIGN NOTES:

- SITE IS LOCATED IN PENRITH COUNCIL.
- SITE AREA = 916m<sup>2</sup>
- SITE IS GOVERNED BY PENRITH CITY COUNCIL.
- OSD IS NOT REQUIRED IN ACCORDANCE WITH SECTION 4 OF PENRITH CITY COUNCIL STORMWATER DRAINAGE SPECIFICATION FOR BUILDING DEVELOPMENTS SINCE THE LOCAL CATCHMENT FALLS IN THE OSD EXCLUSION ZONE .
- IN ACCORDANCE WITH PENRITH COUNCIL WSUD POLICY 2013, WATER QUALITY AND WATER QUANTITY IS NOT REQUIRED FOR THIS DEVELOPMENT, HOWEVER WATER CONSERVATION MUST BE CONSIDERED.
- A MUSIC MODEL HAS BEEN PROVIDED TO MODEL THE RAINWATER TANK TO PROVIDE A MINIMUM OF 80% RE-USE FOR THE CHILDCARE DEVELOPMENT. THE FOLLOWING PARAMETERS WERE CONSIDERED WHEN MODELLING THE RAINWATER TANK:
- INTERNAL RE-USE (TOILETS): 0.1kL/day PER TOILET
  - IRRIGATION OF LANDSCAPE: 0.4kL/year/m<sup>2</sup> (SPRINKLER SYSTEMS) 0.3kL/year/m<sup>2</sup> (SUBSURFACE)
- FOR THE PURPOSE OF THIS DEVELOPMENT A TOTAL OF 318.28m<sup>2</sup> ROOF AREA IS COLLECTED INTO THE RAINWATER TANK AND NOMINATED FOR RE-USE TO 227.5m<sup>2</sup> OF LANDSCAPED AREA. NO TOILETS HAVE BEEN CONSIDERED FOR RE-USE AND ALL LANDSCAPE HAS BEEN ASSUMED TO HAVE A SPRINKLER SYSTEM. PLEASE REFER TO MUSIC MODEL.
- CONTRACTOR TO INSTALL ABOVE GROUND RAINWATER TANK TO COLLECT REQUIRED ROOF AREA IN ACCORDANCE WITH BASIX CERTIFICATE.
- RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PREVENTION DEVICES.
- ALL DOWNPIPES SHOWN ON PLAN ARE Ø100mm uPVC U.N.O.
- ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

NOTES:

'A' DENOTES EASEMENT TO DRAIN WATER 2 WIDE (VIDE DP259309)

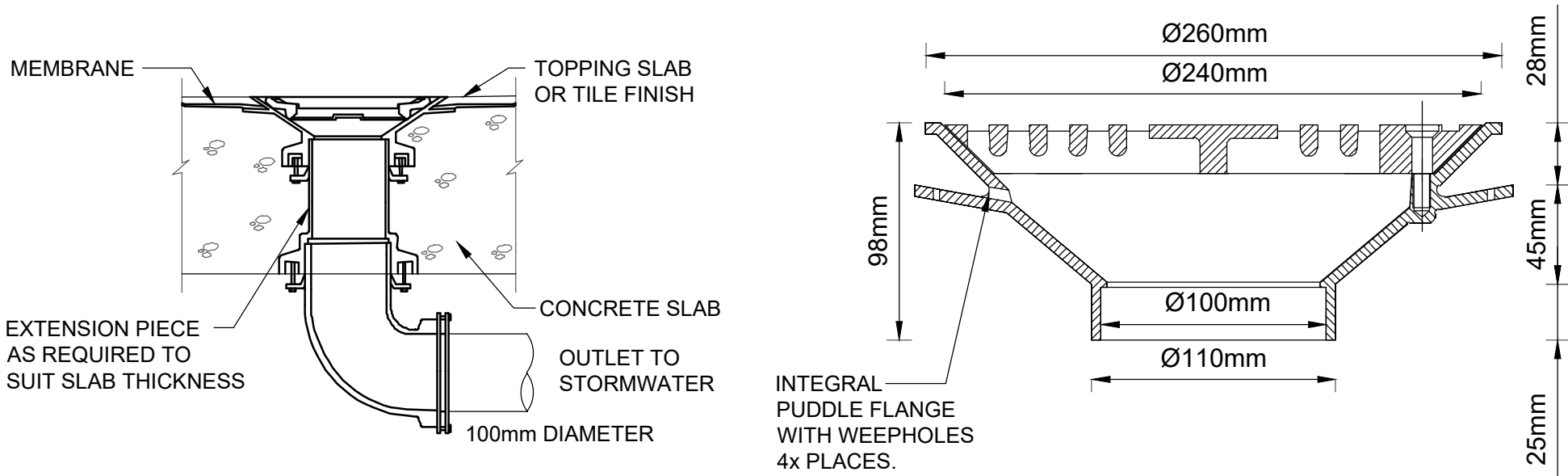
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| REV | DESCRIPTION   | APP. | DESIGN | DATE       |                                                                                                                                                                                        |                                                                                                                 |                                                          |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                              |                                                        |                     |

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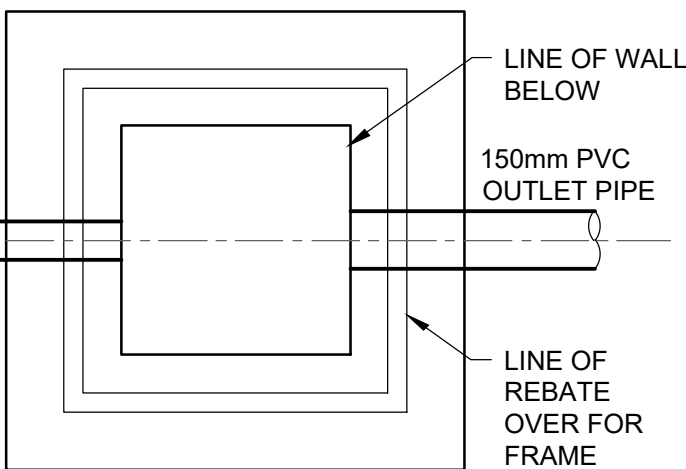
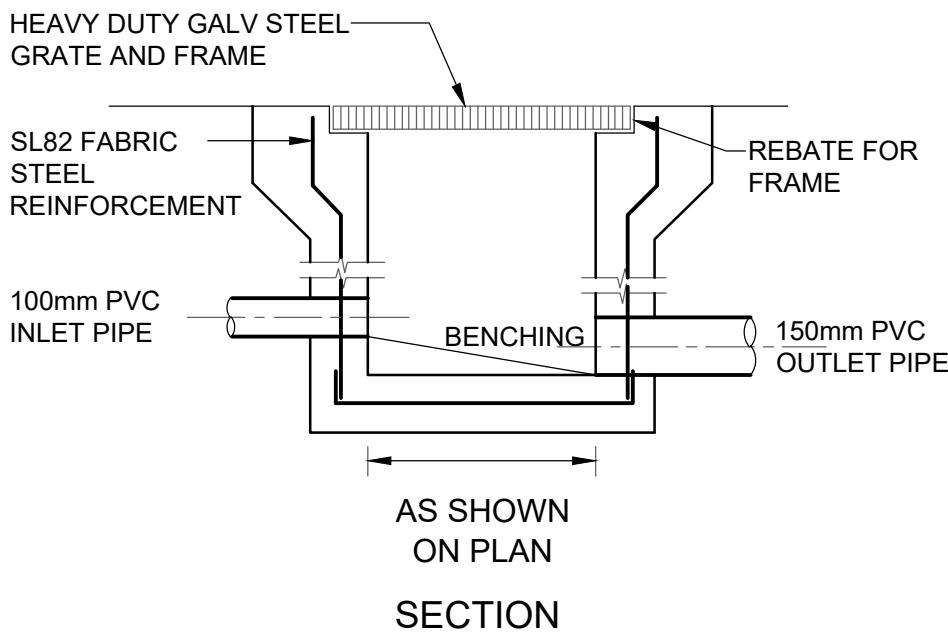
LEGEND:  
BACKGROUND IS YELLOW  
TEXT IS WHITE ON BLACK  
BACKGROUND



RAINWATER SIGN  
SCALE 1:10

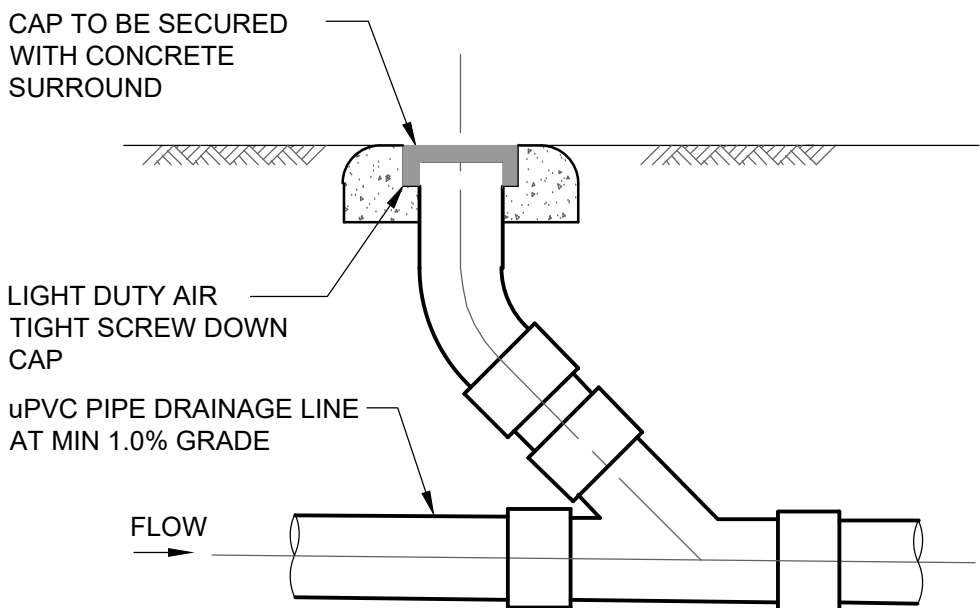


RAINWATER OUTLET TYPE "SPS"  
SCALE 1:20

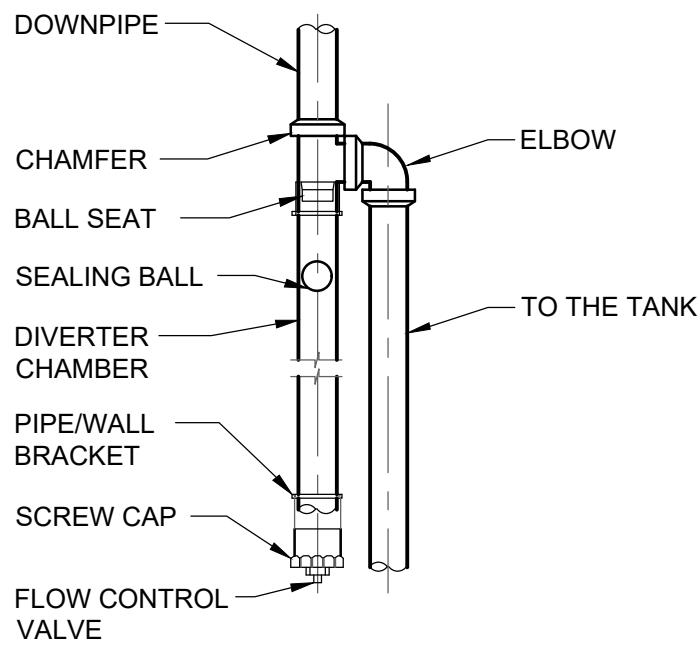


PLAN WITHOUT GRATE

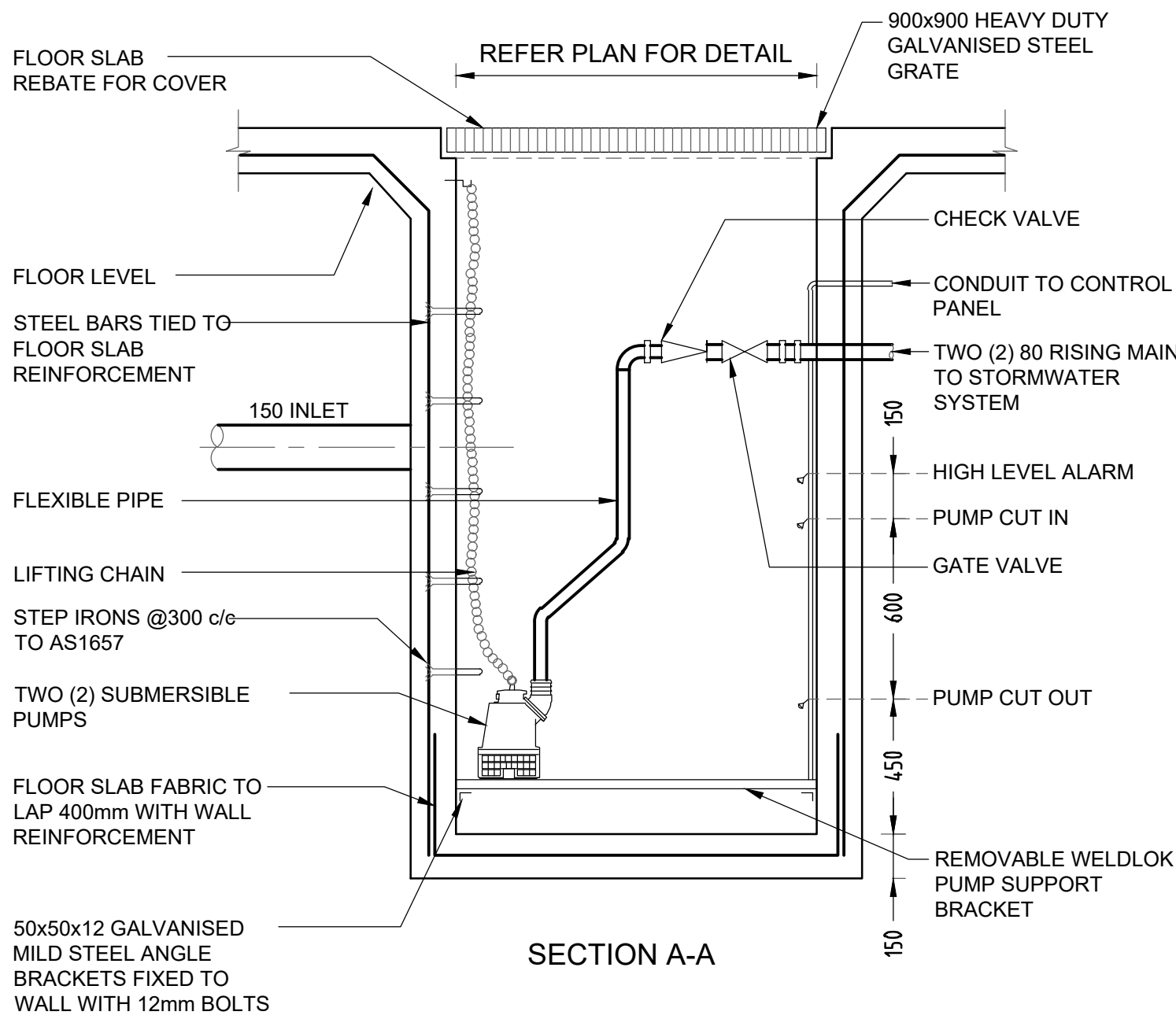
STORMWATER PIT  
SCALE 1:20



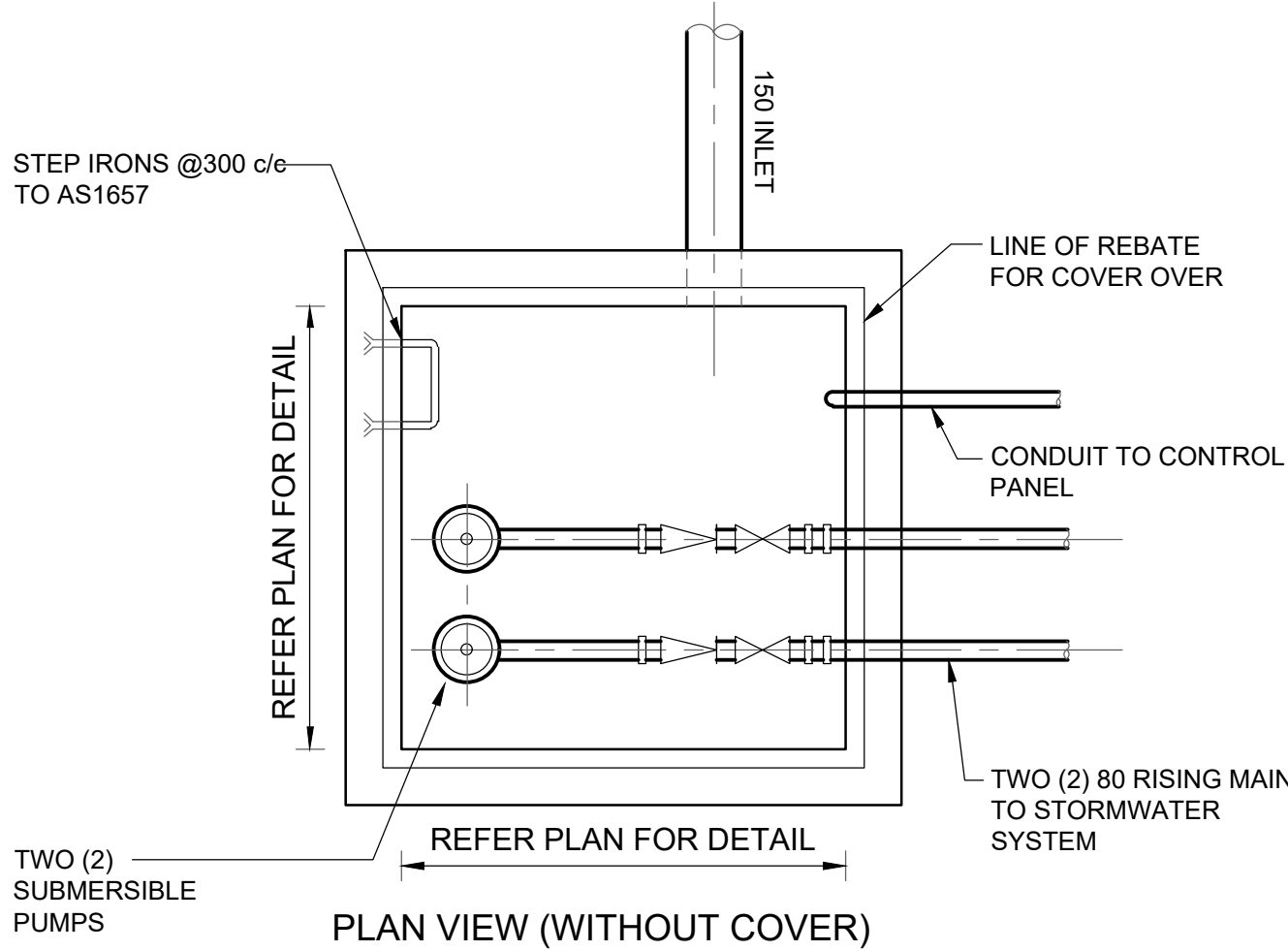
CLEANING EYE  
SCALE 1:20



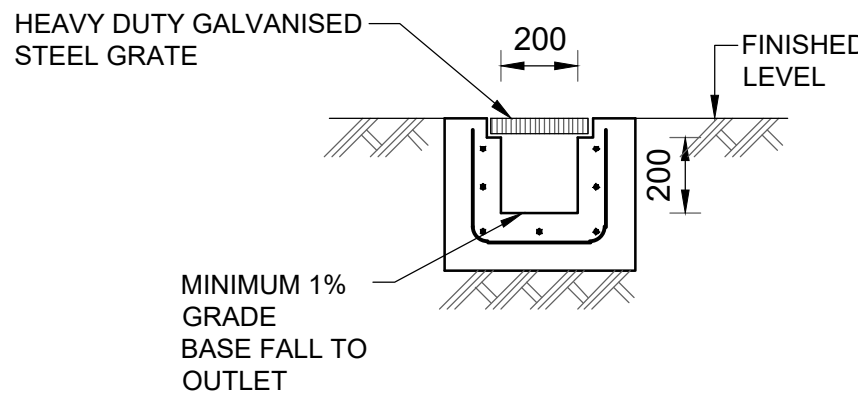
FIRST FLUSH DIVERTER  
SCALE 1:20



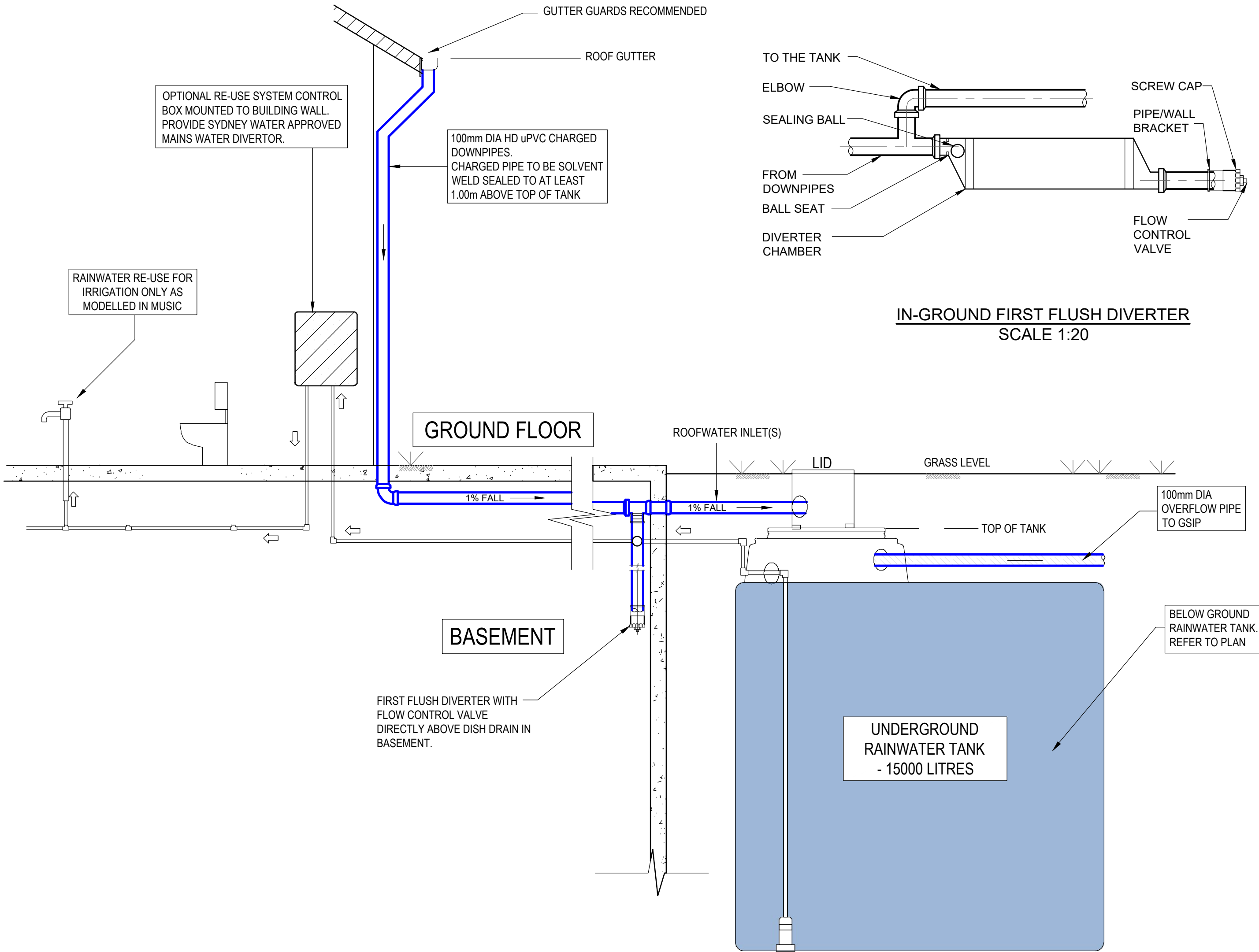
SECTION A-A



SUBSOIL PUMP OUT PIT  
NTS

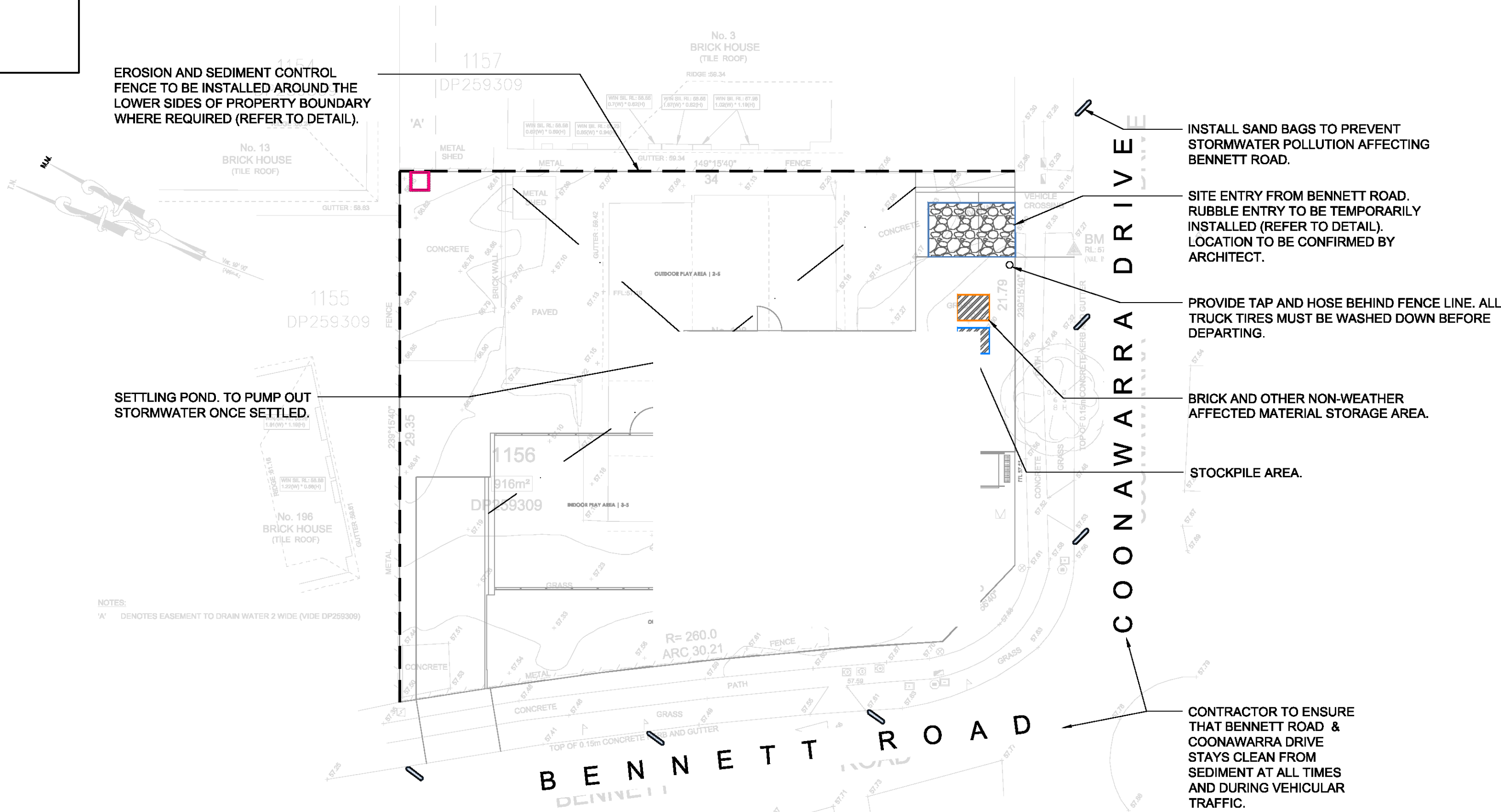


GRATED TRENCH DRAIN  
SCALE 1:20



|     |               |      |        |            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 |                                                                                                              |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                           |                                                                                                             |
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| A   | ISSUED FOR DA | 2    | A.A.   | 01.03.2021 | APPROVAL TYPE:<br>1. PRELIMINARY<br>2. DEVELOPMENT APPLICATION<br>3. COMPLYING DEVELOPMENT<br>4. CONSTRUCTION CERTIFICATE<br>5. FOR TENDER<br>6. OTHER                                                                                                                                                                               |                                                                                                                 |                                                                                                              |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                           |                                                                                                             |
| REV | DESCRIPTION   | APP. | DESIGN | DATE       |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 |                                                                                                              |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                           |                                                                                                             |

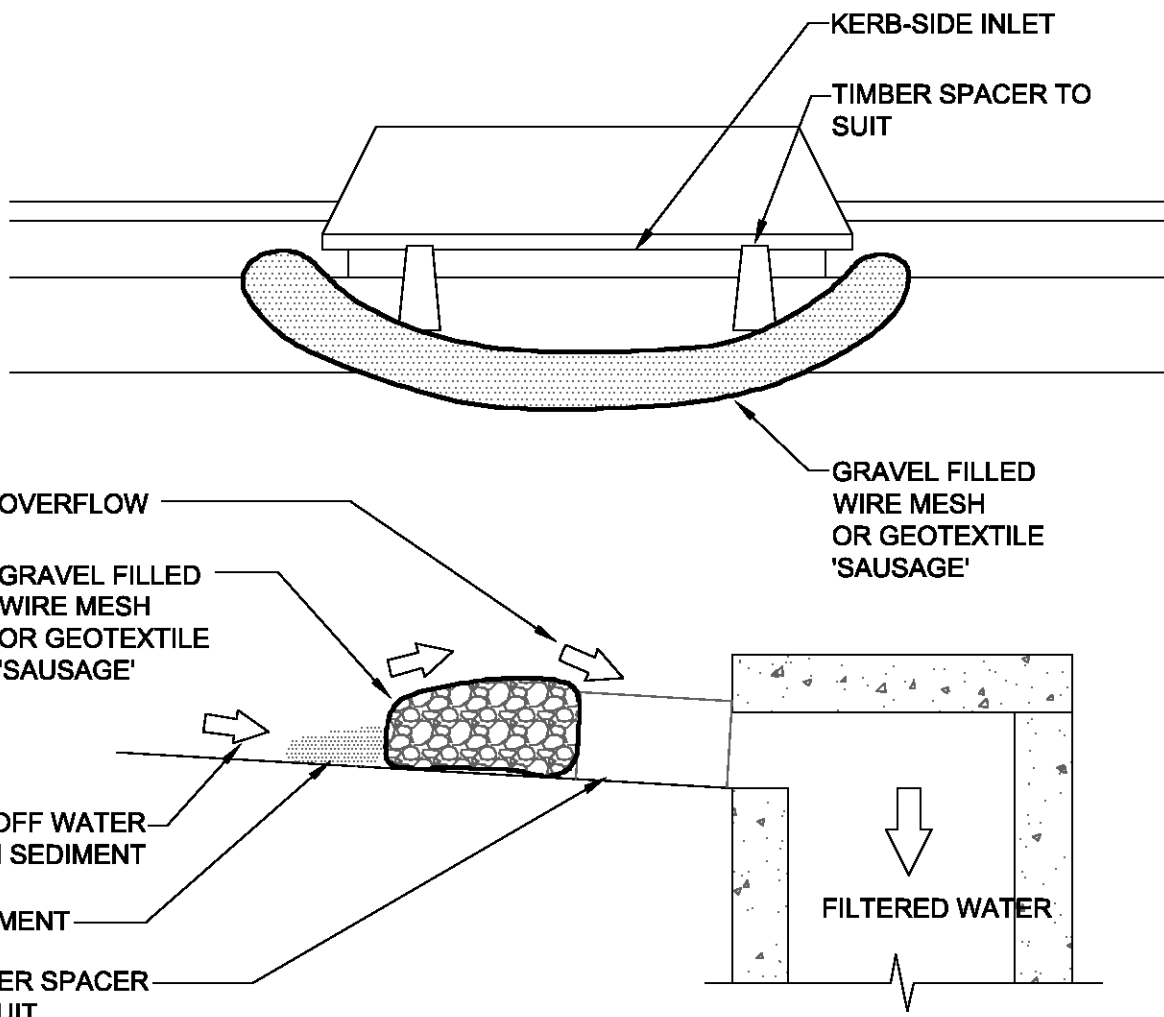
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EROSION & SEDIMENT  
CONTROL PLAN  
SCALE 1:200

LEGEND:

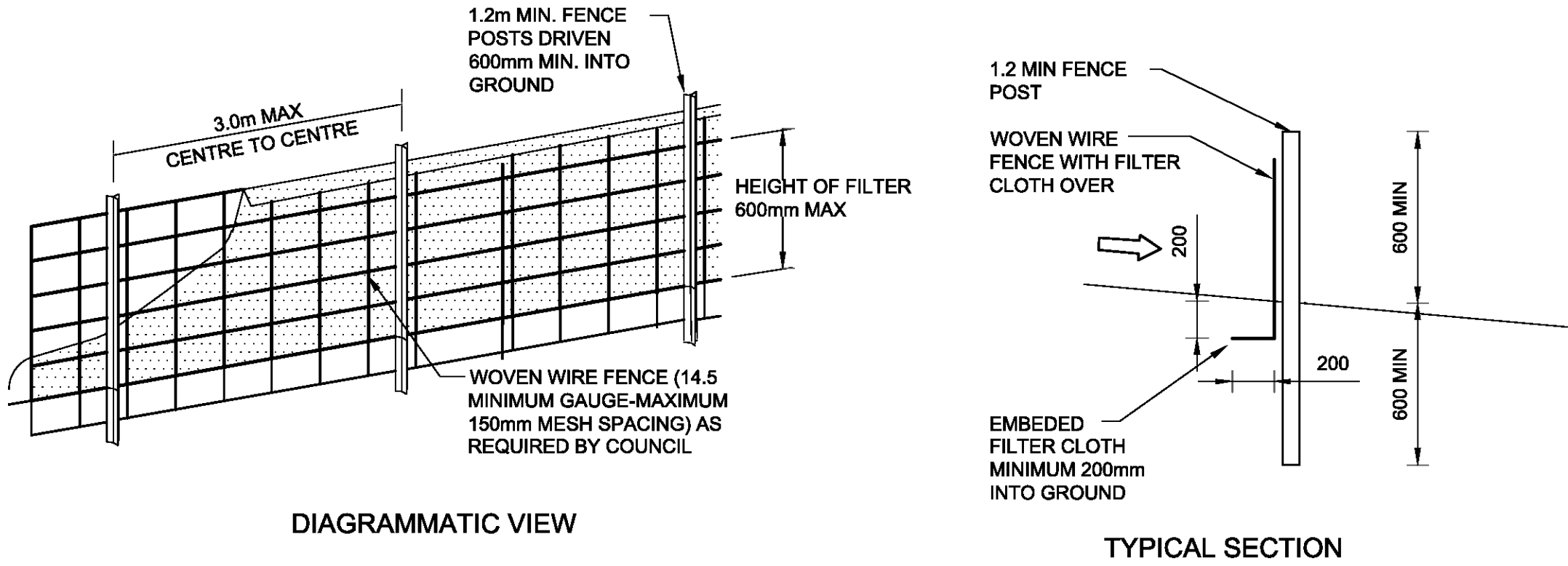
- SITE FENCE
- RUBBLE ENTRY
- STOCKPILE AREA
- SAUSAGE FILTER



CONSTRUCTION NOTES:

- INSTALL KERB INLET FILTERS TO KERB INLETS ONLY AT SAG POINTS OR AS SHOWN ON PLAN
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

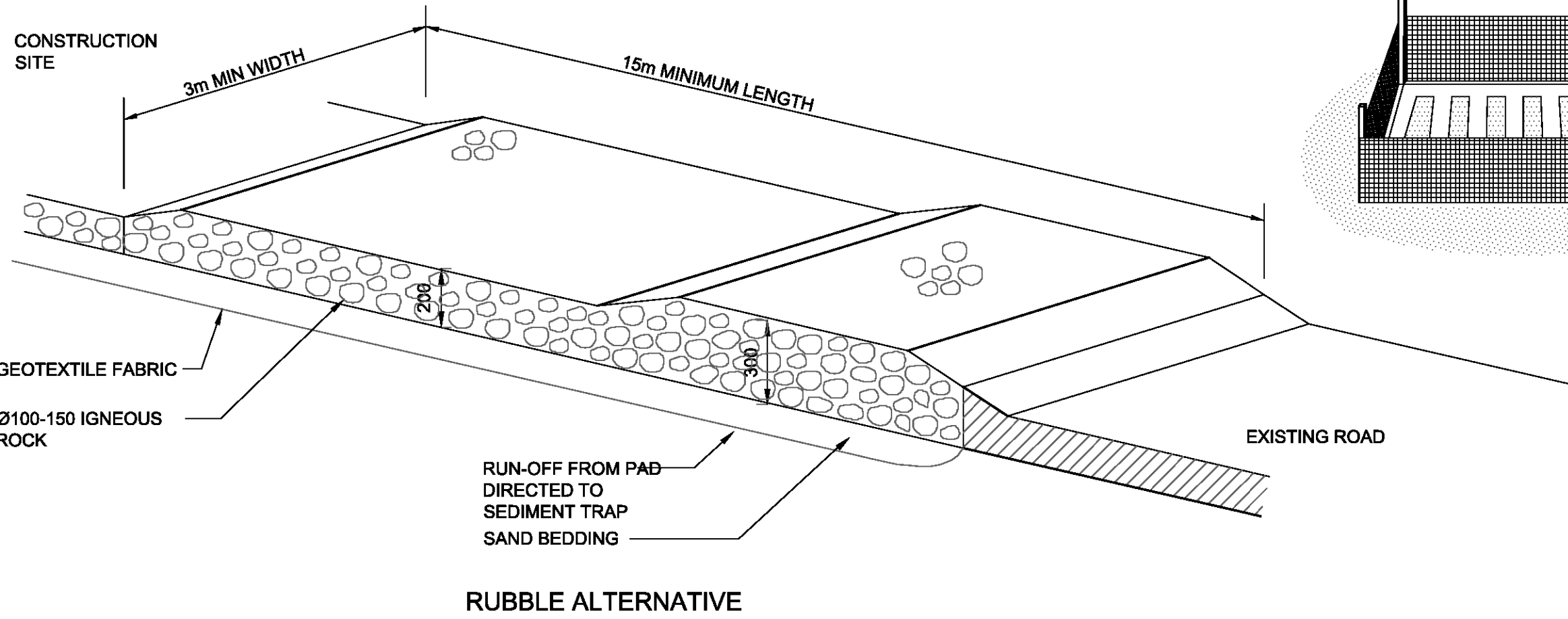
GRAVEL INLET FILTER (SANDBAG)  
NTS



DIAGRAMMATIC VIEW

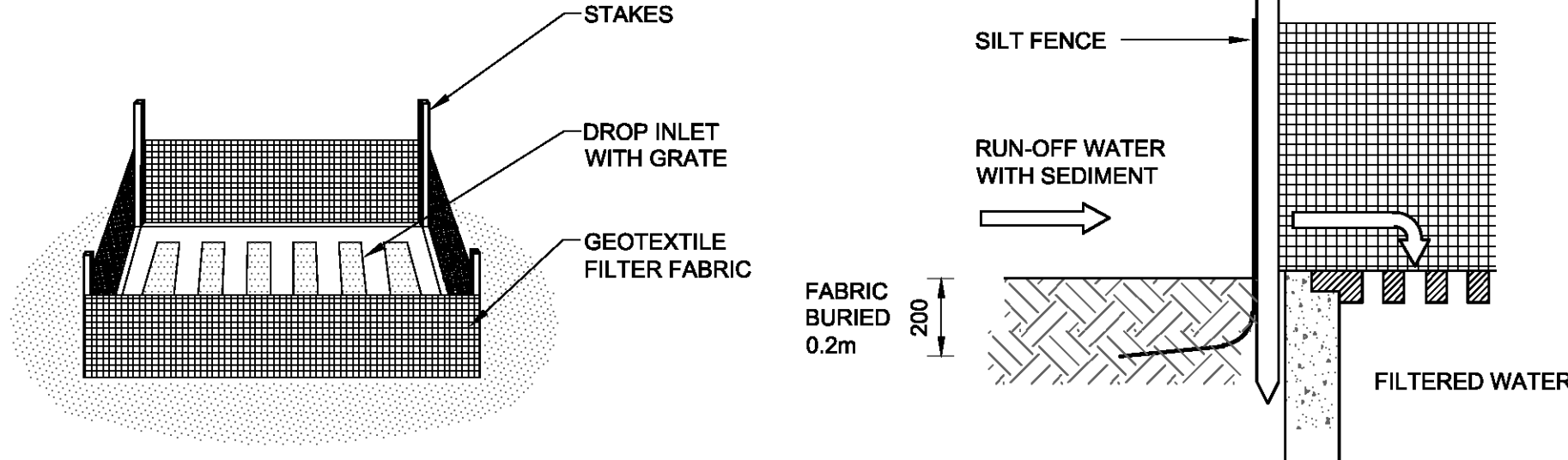
TYPICAL SECTION

SEDIMENT FENCE  
NTS



RUBBLE ALTERNATIVE

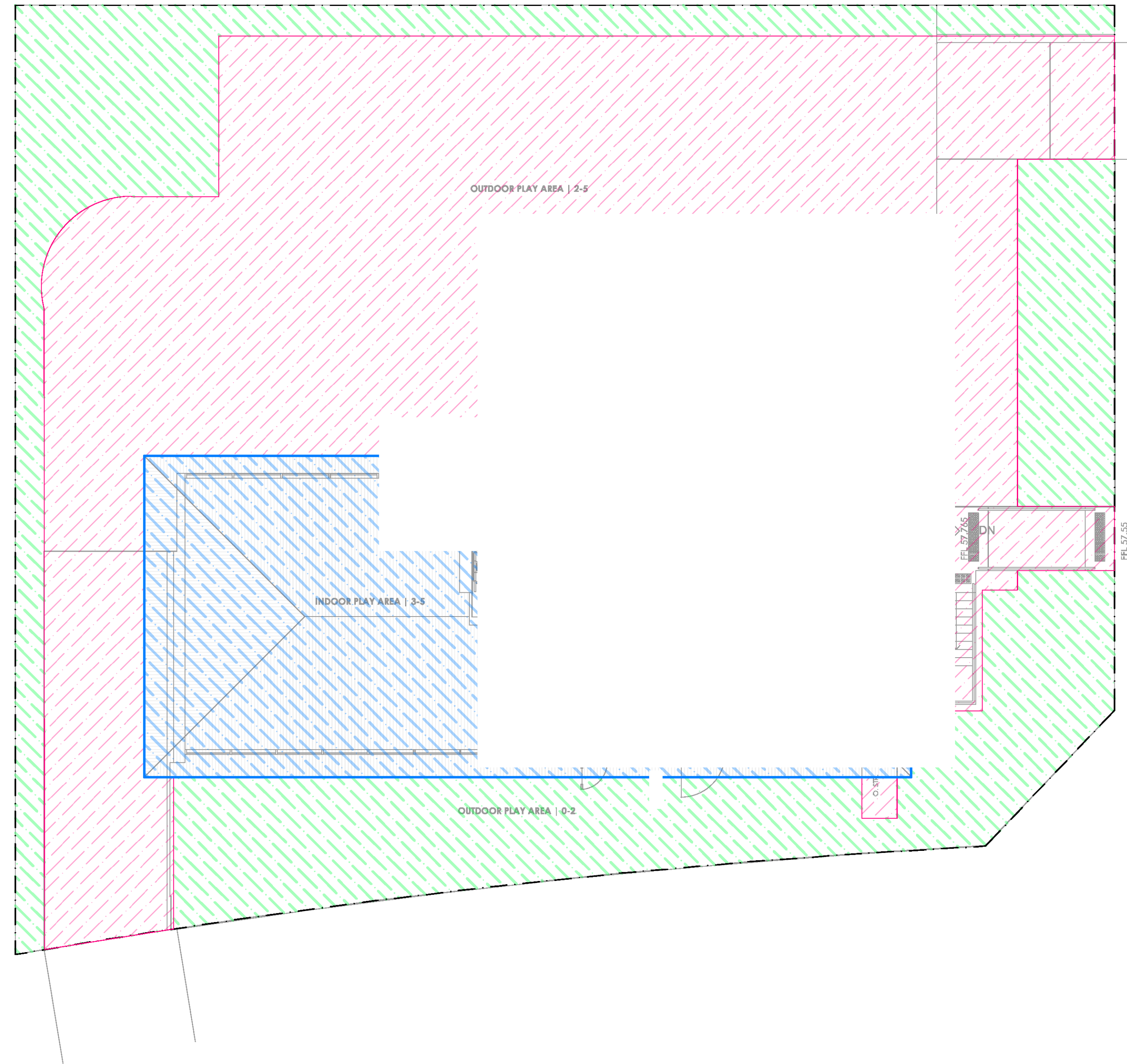
TEMPORARY CONSTRUCTION EXIT  
NTS



SUMP SEDIMENT TRAP  
NTS

|     |               |      |        |            |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 |                                                           |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                                                                                                                                                                                    |                                                                                                         |
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| A   | ISSUED FOR DA | 2    | A.A.   | 01.03.2021 | APPROVAL TYPE:<br>1. PRELIMINARY<br>2. DEVELOPMENT APPLICATION<br>3. COMPLYING DEVELOPMENT<br>4. CONSTRUCTION CERTIFICATE<br>5. FOR TENDER<br>6. OTHER                                                                                                                                                                                   |                                                                                                                 | B.E CIVIL/STRUCTURAL<br>BEng,MIEAust<br>MEMB. NO: 5579488 |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                                                                                                                                                                                    |                                                                                                         |
| REV | DESCRIPTION   | APP. | DESIGN | DATE       |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 |                                                           |                                                        |                                                                                                     |                          |                                                                                                                                                      |                                                                                                                                                                                                    |                                                                                                         |

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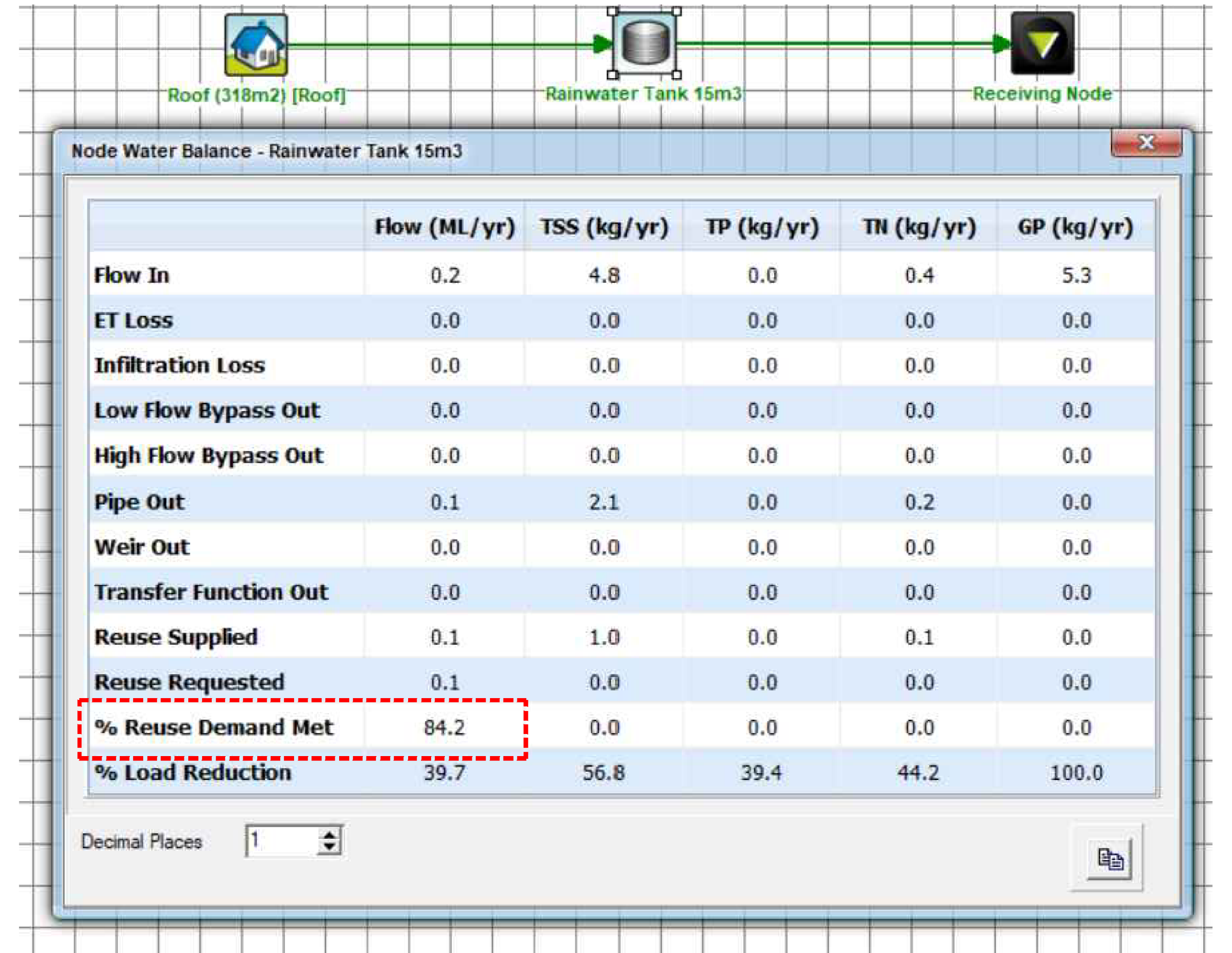
**LEGEND**

**SITE AREA** = 916.65m<sup>2</sup>

**ROOF AREA DRAINING TO RWT**  
AREA=318.28m<sup>2</sup> (34.72%)

**IMPERVIOUS AREA BYPASSING RWT**  
AREA=371.19m<sup>2</sup> (40.49%)

**LANDSCAPE AREA FOR IRRIGATION**  
AREA=227.50m<sup>2</sup> (24.82%)



|     |               |             |      |            |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 |                                                           |                                              |                                                                                       |               |                                 |                                    |                                                        |                         |                     |
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|     |               |             |      |            | REVIEWED: J.D.                                                                                                                                                                                                                                                                                                                           |                                                                                                                 | DATE: 01.03.2021                                          | ADDRESS:<br>198 BENNETT ROAD, ST CLAIR       |                                                                                       |               | SCALE:                          |                                    |                                                        | PROJECT NO.<br>SW21052  |                     |
|     |               |             |      |            | APPROVED: A.A.                                                                                                                                                                                                                                                                                                                           |                                                                                                                 | DATE: 01.03.2021                                          | APPLICATION:<br>DEVELOPMENT APPLICATION (DA) |                                                                                       |               |                                 |                                    |                                                        | LGA:<br>PENRITH COUNCIL | DRAWING NO.<br>S500 |
| A   | ISSUED FOR DA | 2           | A.A. | 01.03.2021 | APPROVAL TYPE:<br>1. PRELIMINARY<br>2. DEVELOPMENT APPLICATION<br>3. COMPLYING DEVELOPMENT                                                                                                                                                                                                                                               |                                                                                                                 | B.E CIVIL/STRUCTURAL<br>Beng,MIEAust<br>MEMB. NO: 5579488 | ARCHITECT:                                   |                                                                                       |               |                                 |                                    |                                                        | CLIENT:                 |                     |
| REV | DESCRIPTION   | APP. DESIGN | DATE |            | 4. CONSTRUCTION CERTIFICATE<br>5. FOR TENDER<br>6. OTHER                                                                                                                                                                                                                                                                                 |                                                                                                                 |                                                           |                                              |                                                                                       |               |                                 |                                    |                                                        |                         |                     |