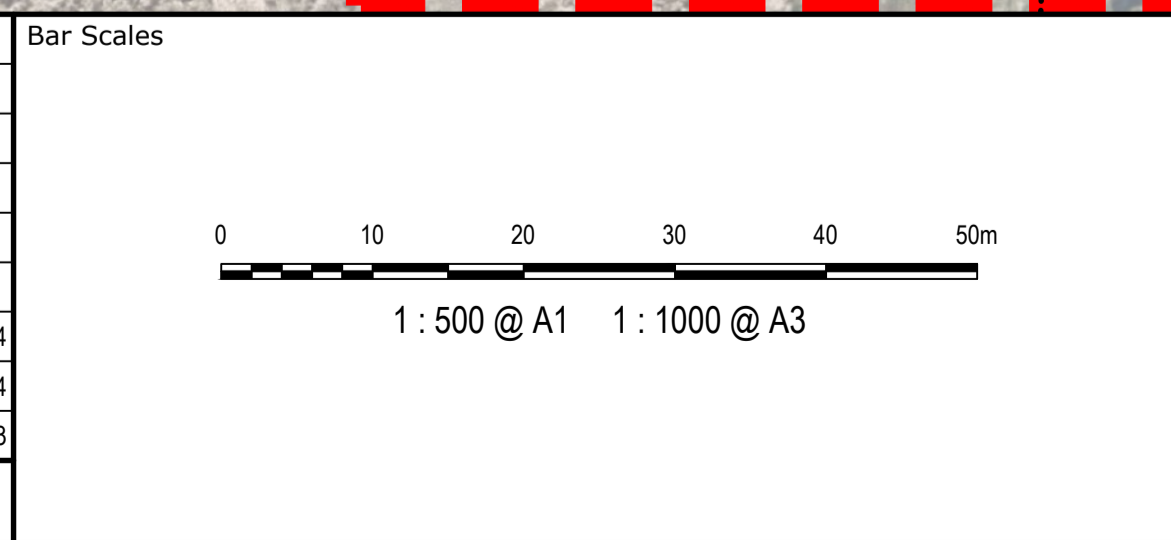


| Issue | Description   | Date       |
|-------|---------------|------------|
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |
| P1    | DRAFT ISSUE   | 21.12.2023 |



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|--------------|--------------|----------|----|
| Client       | SATHIO GROUP |          |    |
| Scales       | 1:500        | Drawn    | RM |
|              |              | Designed | SM |
| Grid         | MGA2020      | Checked  | SM |
| Height Datum | AHD          | Approved | TM |

**GDA2020**

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| Project | 40 THE RETREAT<br>BRINGELLY<br>NSW 2556 |
| Title   | GENERAL ARRANGEMENT<br>PLAN             |

Civil Engineers and Project Managers

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| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0003                               | Issue |
|                       |   | B     |

**CUT/FILL DEPTH RANGE LEGEND**

| Lower_value | Upper_value | Colour |
|-------------|-------------|--------|
| -100        | to -4.0     | m      |
| -4.0        | to -3.5     | m      |
| -3.5        | to -3.0     | m      |
| -3.0        | to -2.5     | m      |
| -2.5        | to -2.0     | m      |
| -2.0        | to -1.5     | m      |
| -1.5        | to -1.0     | m      |
| -1.0        | to -0.5     | m      |
| -0.5        | to 0.0      | m      |
| 0.0         | to 0.5      | m      |
| 0.5         | to 1.0      | m      |
| 1.0         | to 1.5      | m      |
| 1.5         | to 2.0      | m      |
| 2.0         | to 2.5      | m      |
| 2.5         | to 3.0      | m      |
| 3.0         | to 3.5      | m      |
| 3.5         | to 4.0      | m      |
| 4.0         | to 100      | m      |

**EARTHWORKS NOTES**  
EARTHWORKS VOLUMES SHOWN ARE APPROXIMATE ONLY AND HAVE BEEN CALCULATED USING:

THE VOLUMES TAKE ONLY INTO ACCOUNT FOR :

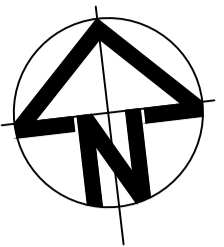
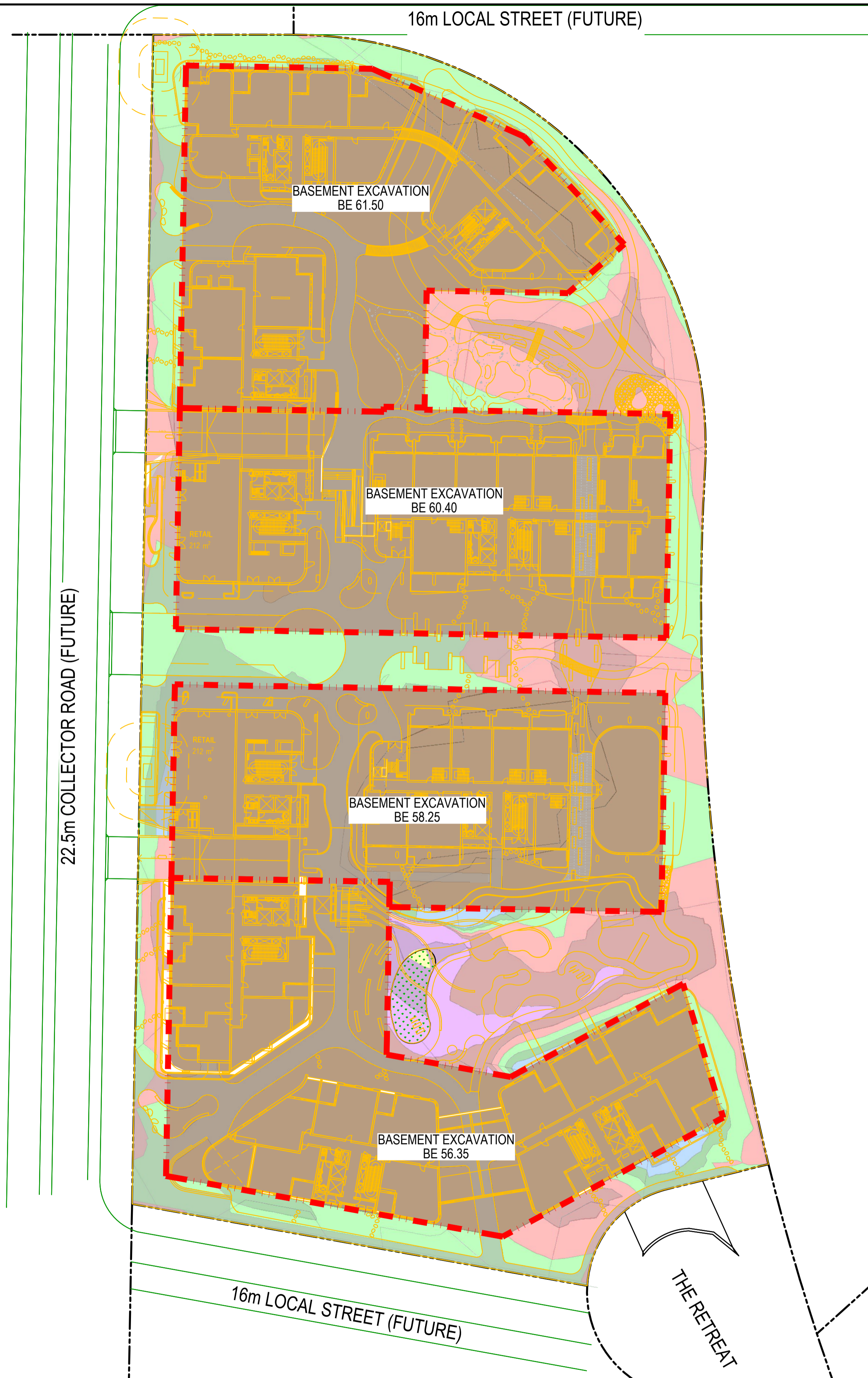
- 200mm STRIPPED FROM NATURAL SURFACE
- 200mm ASSUMED THICKNESS BUILDING BASE SLAB
- 200mm ASSUMED THICKNESS ACROSS ALL LANDSCAPED AND PAVED AREAS

THE VOLUMES DO NOT TAKE INTO ACCOUNT :

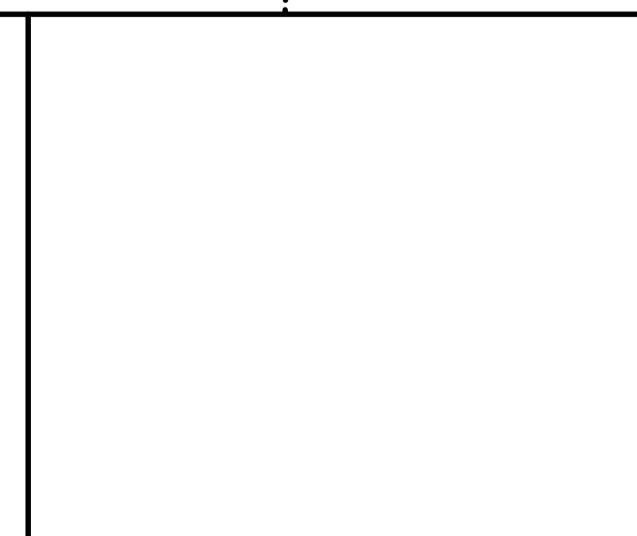
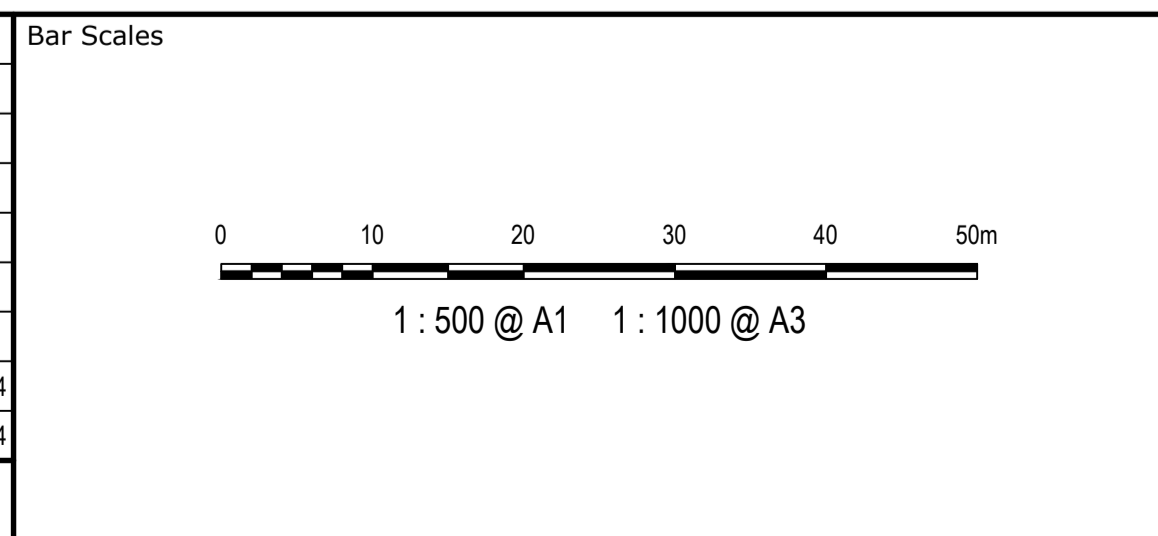
- BULKING FACTORS OF REMOVED CUT
- REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
- STORMWATER AND UTILITIES TRENCHING
- RAINWATER TANK OR OSD TANK VOLUMES
- BACK FILL OF PROPOSED RETAINING WALLS

**EARTHWORKS VOLUMES**

|            |  |
|------------|--|
| TOTAL CUT  | - 118938m <sup>3</sup>                 |
| TOTAL FILL | + 1008m <sup>3</sup>                   |
| BALANCE:   | 117930m <sup>3</sup> (EXPORT REQUIRED) |



| Issue | Description   | Date       |
|-------|---------------|------------|
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |



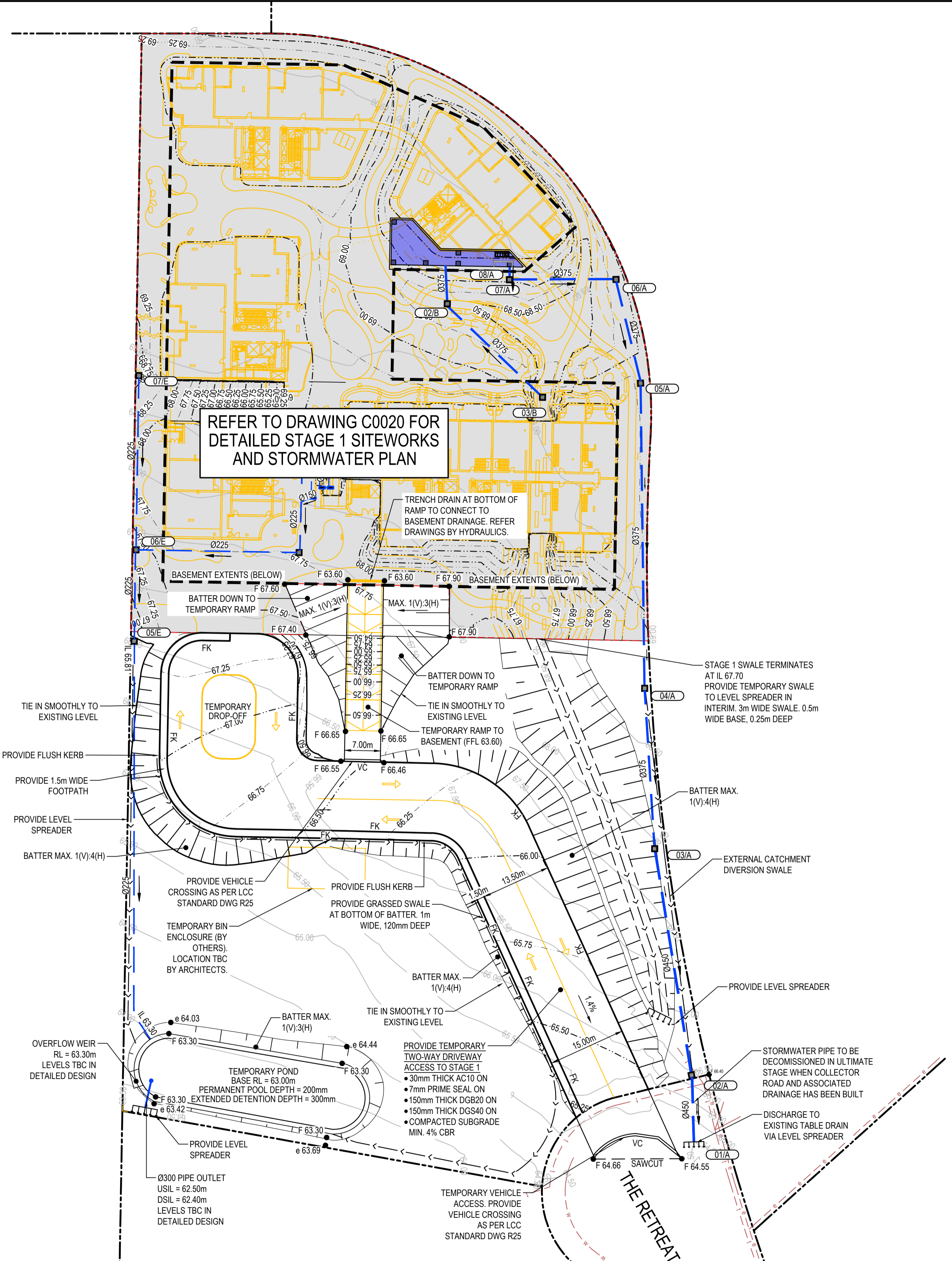
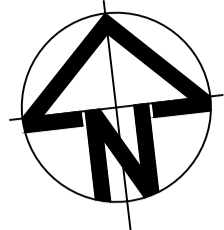
|        |              |
|--------|--------------|
| Client | SATHIO GROUP |
|--------|--------------|

|  |         |          |    |
|--|---------|----------|----|
| Scales   | 1:500   | Drawn    | RM |
|  |         | Designed | SM |
| Grid   | MGA2020 | Checked  | SM |
| Height Datum   | AHD     | Approved | TM |
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|         |   |
|---------|---|
| Project | 40 THE RETREAT<br>BRINGELLY<br>NSW 2556 |
| Title   | BULK EARTHWORKS<br>PLAN                 |

|  |   |
|--|---|
| Civil Engineers and Project Managers   |   |
|  |   |
| Level 7, 153 Walker Street<br>North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.atl.net.au<br>info@atl.net.au |   |
| Status   | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.  | 23-1110-C0005                               |
| Issue  | B   |



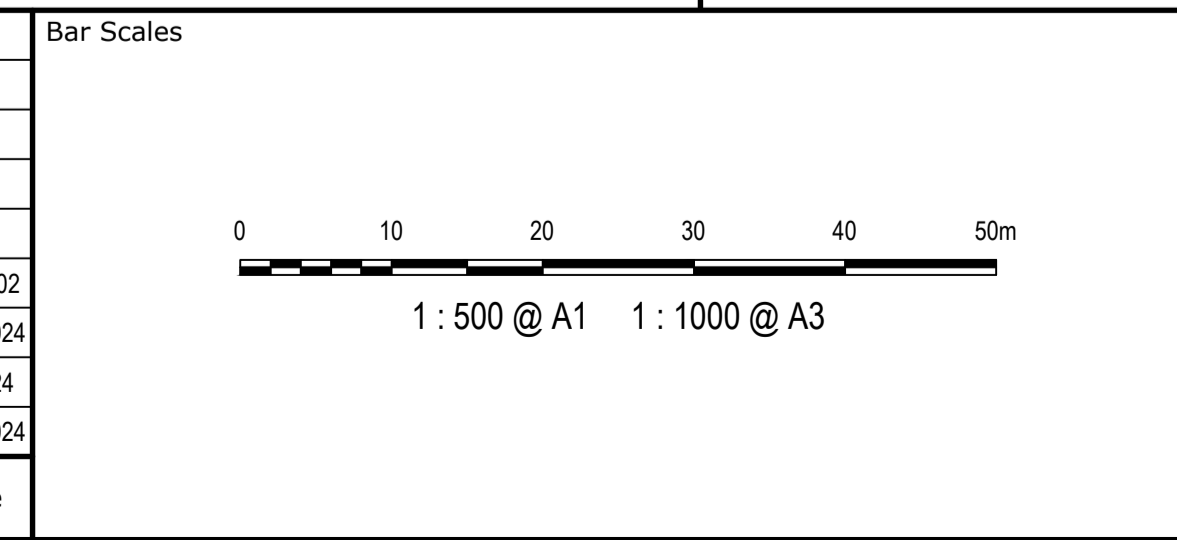


**INTERIM STAGE NOTES**

1. THE INTERIM PLAN IS TO STAY IN PLACE UNTIL SURROUNDING ROADS FOR ACCESS INTO SITE ARE BUILT.
2. IT IS ASSUMED THAT THE SYDNEY WATER REGIONAL STORMWATER MANAGEMENT INFRASTRUCTURE WILL BE IN PLACE AT THE TIME THAT STAGE 2 IS BUILT. THE COMPLETED DEVELOPMENT'S WATER QUALITY AND WATER QUANTITY CONTROLS WILL BE ADDRESSED BY THE REGIONAL SCHEME INFRASTRUCTURE.

| SITEWORKS LEGEND   |  |
|--------------------|--|
| ---                | EXISTING BOUNDARY  |
| ---                | EXISTING CONTOUR   |
| ---                | PROPOSED CONTOUR   |
| ---                | FUTURE ROAD CONTOUR INDICATIVE ONLY, SUBJECT TO DESIGN BY OTHERS |
| ● F 44.45          | PROPOSED FINISHED LEVEL  |
| ⊠                  | PROPOSED STORMWATER SEALED JUNCTION PIT                          |
| ⊞                  | PROPOSED STORMWATER SURFACE INLET PIT                            |
| ---                | PROPOSED SWALE   |
| ---                | PROPOSED STORMWATER PIPE (FUNCTIONAL IN ULTIMATE CASE ONLY)      |
| ---                | PROPOSED STORMWATER PIPE, SIZE AND DIRECTION                     |
| (A-1)              | STORMWATER PIT REFERENCE NUMBER                                  |
| EXISTING UTILITIES |  |
| ---                | EXISTING WATER   |
| ---                | EXISTING TELSTRA   |
| ---                | EXISTING STORMWATER PIPE   |

| Issue | Description   | Date       |
|-------|---------------|------------|
| D     | ISSUED FOR DA | 07.06.2022 |
| C     | ISSUED FOR DA | 03.06.2024 |
| B     | ISSUED FOR DA | 15.04.24   |
| A     | ISSUED FOR DA | 05.04.2024 |



Client

SATHIO GROUP

|   |         |          |    |
|---|---------|----------|----|
| Scales  | 1:500   | Drawn    | RM |
|   |         | Designed | SM |
| Grid  | MGA2020 | Checked  | SM |
| Height Datum  | AHD     | Approved | TM |
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Project

**40 THE RETREAT  
BRINGELLY  
NSW 2556**

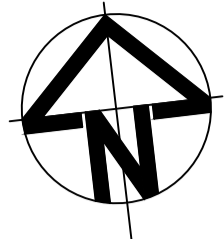
Title

**INTERIM  
SITEWORKS AND STORMWATER  
DRAINAGE PLAN**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
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|                       |   | D     |



### SITWORKS LEGEND

- EXISTING BOUNDARY
- - - 48.00 EXISTING CONTOUR
- - - 48.00 PROPOSED CONTOUR
- - - 48.00 FUTURE ROAD CONTOUR INDICATIVE ONLY, SUBJECT TO DESIGN BY OTHERS
- F 44.45 PROPOSED FINISHED LEVEL
- ☒ PROPOSED STORMWATER SEALED JUNCTION PIT
- ☐ PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED SWALE
- Ø375 PROPOSED STORMWATER PIPE (FUNCTIONAL IN ULTIMATE CASE ONLY)
- Ø375 PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- (A-1) STORMWATER PIT REFERENCE NUMBER

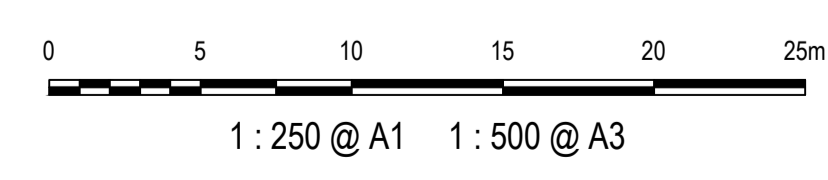
### EXISTING UTILITIES

- W --- EXISTING WATER
- T --- EXISTING TELSTRA
- SW --- EXISTING STORMWATER PIPE

- ### NOTES:
1. TREES TO BE COORDINATED BY LANDSCAPE ARCHITECTS AGAINST STORMWATER NETWORK.
  2. EXISTING TREE REMOVALS SUBJECT TO ADVICE BY OTHERS.
  3. REFER TO DRAWING C0070 FOR PAVEMENT TYPES AND DETAILS.

ADJOINS DRG 23-1110-C0021

Bar Scales



| Issue | Description   | Date       |
|-------|---------------|------------|
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |
| P1    | DRAFT ISSUE   | 21.12.2023 |

Client

Scales 1:250

Grid MGA2020

Height Datum AHD

Drawn RM

Designed SM

Checked SM

Approved GJ

Project 40 THE RETREAT BRINGELLY NSW 2556

Title SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

Status ISSUED FOR APPROVAL NOT FOR CONSTRUCTION

Project - Drawing No. 23-1110-C0020

Issue B

Client

Scales 1:250

Grid MGA2020

Height Datum AHD

Drawn RM

Designed SM

Checked SM

Approved GJ

Project 40 THE RETREAT BRINGELLY NSW 2556

Title SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

Status ISSUED FOR APPROVAL NOT FOR CONSTRUCTION

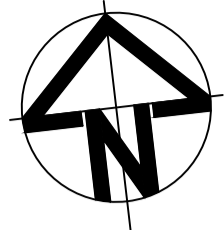
Project - Drawing No. 23-1110-C0020

Issue B

Civil Engineers and Project Managers

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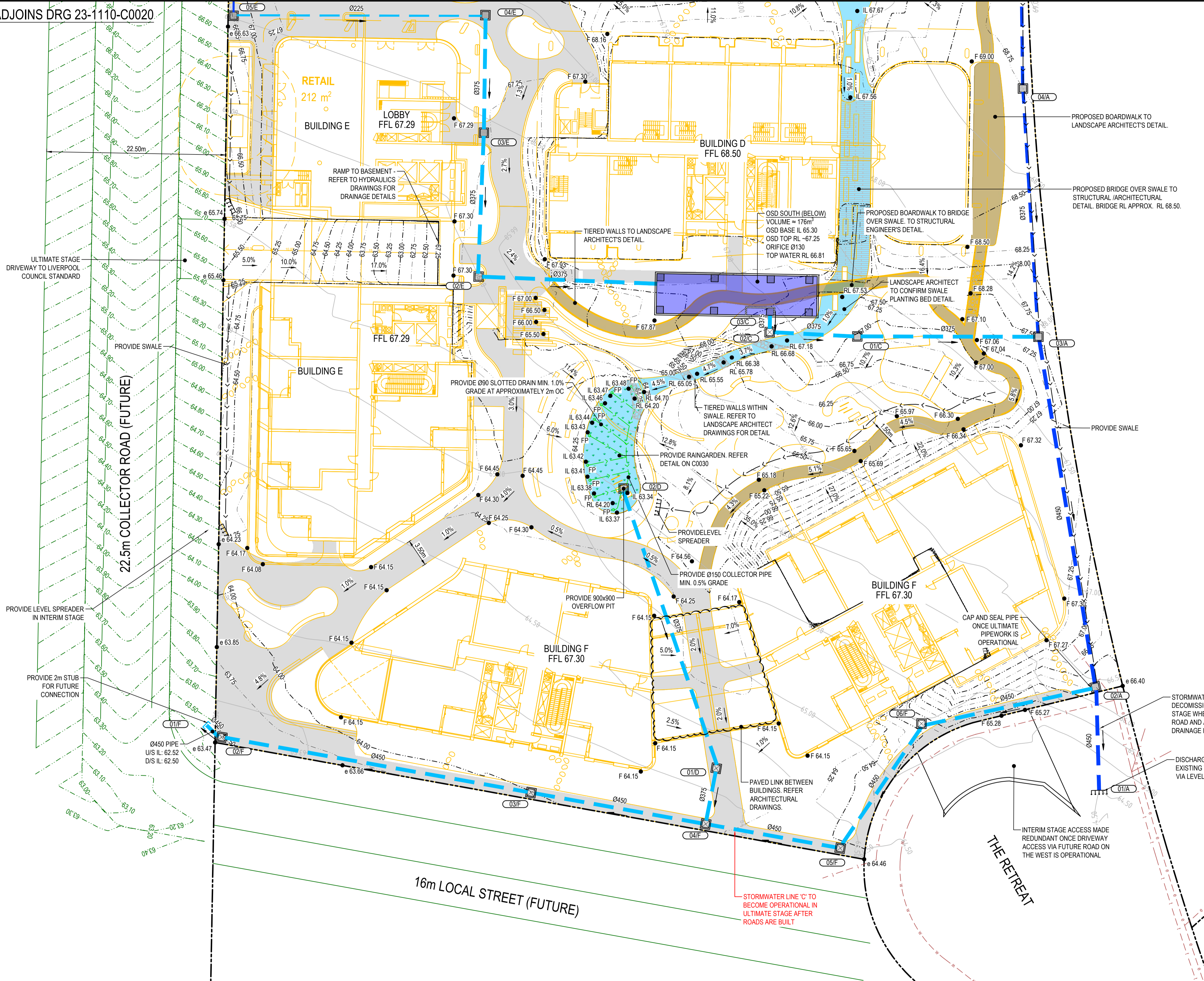
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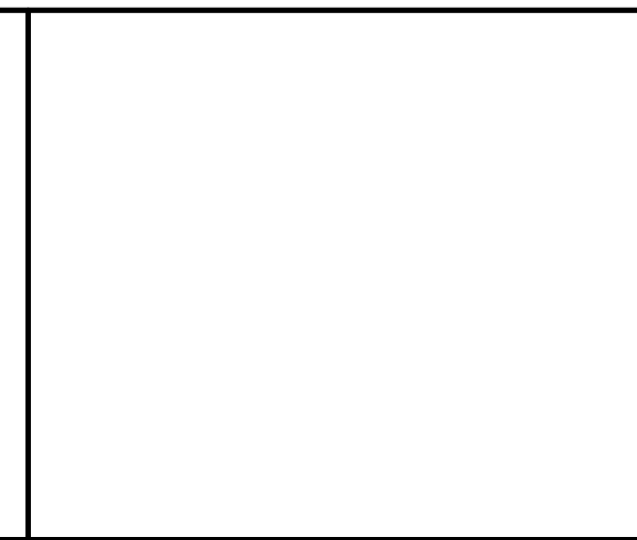
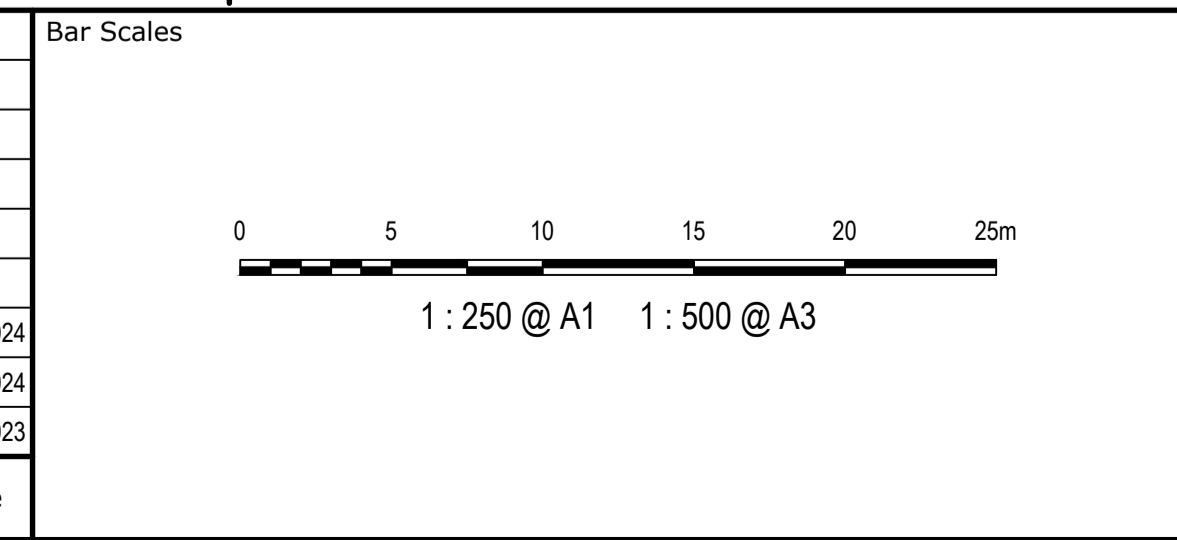
**SITWORKS LEGEND**

- EXISTING BOUNDARY
  - - - 48.00 EXISTING CONTOUR
  - - - 48.00 PROPOSED CONTOUR
  - - - 48.00 FUTURE ROAD CONTOUR INDICATIVE ONLY, SUBJECT TO DESIGN BY OTHERS
  - F 44.45 PROPOSED FINISHED LEVEL
  - ☒ PROPOSED STORMWATER SEALED JUNCTION PIT
  - ☐ PROPOSED STORMWATER SURFACE INLET PIT
  - PROPOSED SWALE
  - Ø375 PROPOSED STORMWATER PIPE (FUNCTIONAL IN ULTIMATE CASE ONLY)
  - Ø375 PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
  - (A-1) STORMWATER PIT REFERENCE NUMBER
- EXISTING UTILITIES**
- W --- EXISTING WATER
  - T --- EXISTING TELSTRA
  - SW --- EXISTING STORMWATER PIPE

- NOTES:**
1. TREES TO BE COORDINATED BY LANDSCAPE ARCHITECTS AGAINST STORMWATER NETWORK.
  2. EXISTING TREE REMOVALS SUBJECT TO ADVICE BY OTHERS.
  3. REFER TO DRAWING C0070 FOR PAVEMENT TYPES AND DETAILS.



| Issue | Description   | Date       |
|-------|---------------|------------|
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |
| P1    | DRAFT ISSUE   | 21.12.2023 |



|              |         |             |
|--------------|---------|-------------|
| Client       |         |             |
| Scales       | 1:250   | Drawn RM    |
| Grid         | MGA2020 | Designed SM |
| Height Datum | AHD     | Checked SM  |
|              |         | Approved GJ |

|         |   |  |
|---------|---|--|
| Project | 40 THE RETREAT BRINGELLY NSW 2556             |  |
| Title   | SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 2 |  |

|  |   |         |
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| Project - Drawing No.  | 23-1110-C0021                               | Issue B |

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## BIO-RETENTION FILTER MEDIA SPECIFICATION

**MATERIALS:**  
BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING:

### A) BIO-RETENTION FILTER MEDIA

1. BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.  
2. BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 180mm/hr USING TEST METHOD ASTM F1815-06.

3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:

|  | CLAY & SILT | VERY FINE SAND | FINE SAND     | MEDIUM TO COARSE SAND | COARSE SAND | FIN GRAVEL  |
|--|-------------|----------------|---------------|-----------------------|-------------|-------------|
|  | <3%         | 5-30%          | 10-30%        | 4.0-6.0%              | 7-10%       | <3%         |
|  | (<0.05mm)   | (0.05-0.15mm)  | (0.15-0.25mm) | (0.25-1.0mm)          | (1.0-2.0mm) | (2.0-3.4mm) |

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W) UNDER ANY CIRCUMSTANCES.

4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:

- ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W)
- TOTAL NITROGEN (TN) CONTENT <math>90\text{mg/kg}</math>
- ORTHOPHOSPHATE (PO<sub>4</sub>) CONTENT <math>30\text{mg/kg}</math> WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION SHOULD BE <math>20\text{mg/kg}</math>
- AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (pH 1.5 IN WATER)
- ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 <math>1.2\text{ds/m}</math>
- DISPENSABILITY - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 CATEGORY 1 OR 2
- TEXTURE - LOAMY SAND AS PER AS4419

5. PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY.

6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

### B) DRAINAGE LAYER A

DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 - 5mm WASHED SCREENING, THE PARTICLE SIZE DISTRIBUTION TO BE: D<sub>15</sub> (DRAINAGE LAYER) <math>5 \times D\_{85}</math> (TRANSITION LAYER)

WHERE D<sub>15</sub> (DRAINAGE LAYER) IS THE 15th PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D<sub>15</sub> mm), AND D<sub>85</sub> (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

### C) DRAINAGE LAYER B

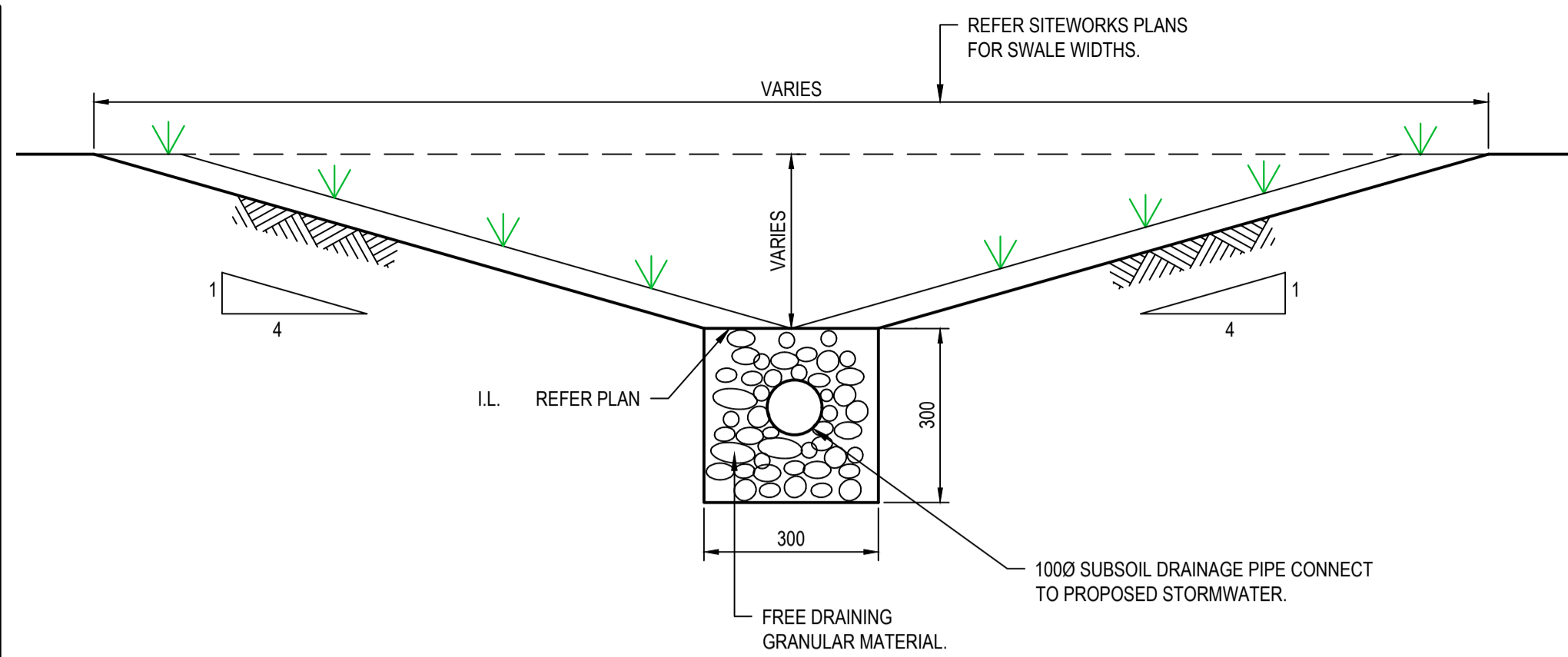
10-20mm CLEAN GRAVEL WITH 2% VOLUME FINE STRAW AND 4-6% VOLUME HARDWOOD CHIPS.

### SEDIMENTATION LAYER

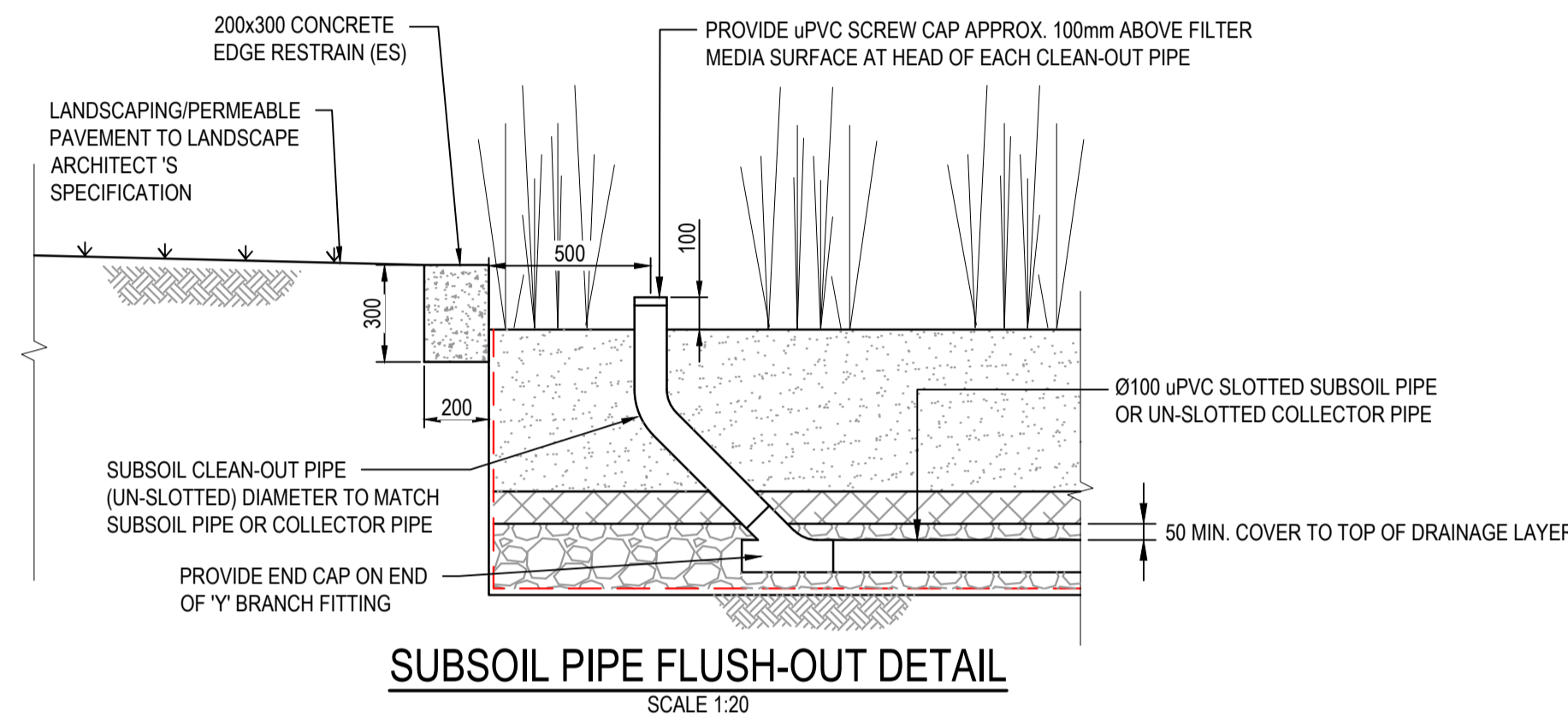
FUTURE WATER QUALITY BASINS ARE TO BE USED AS SEDIMENTATION BASINS UNTIL THE MAJORITY OF THE DEVELOPMENT IS COMPLETE. BASINS ARE TO BE OVER EXCAVATED BY 100mm AND 150mm OF TOPSOIL WON FROM SITE LAID, TURFED WITH COUCH. AT THE COMPLETION OF THE DEVELOPMENT OR WHEN DIRECTED BY THE SUPERINTENDENT, ANY SIGNIFICANT (>50mm) BUILD-UP OF SEDIMENTATION TO BE REMOVED AND FINAL SUBSOIL FILTER MATERIAL INSTALLED. TURF & TOPSOIL CAN REMAIN INSITU. SEDIMENTATION BUILD-UP REMOVAL IS TO BE REMOVED FROM SITE OR REUSED ON SITE DURING THE CONTRACT PERIOD.

### INSTALLATION:

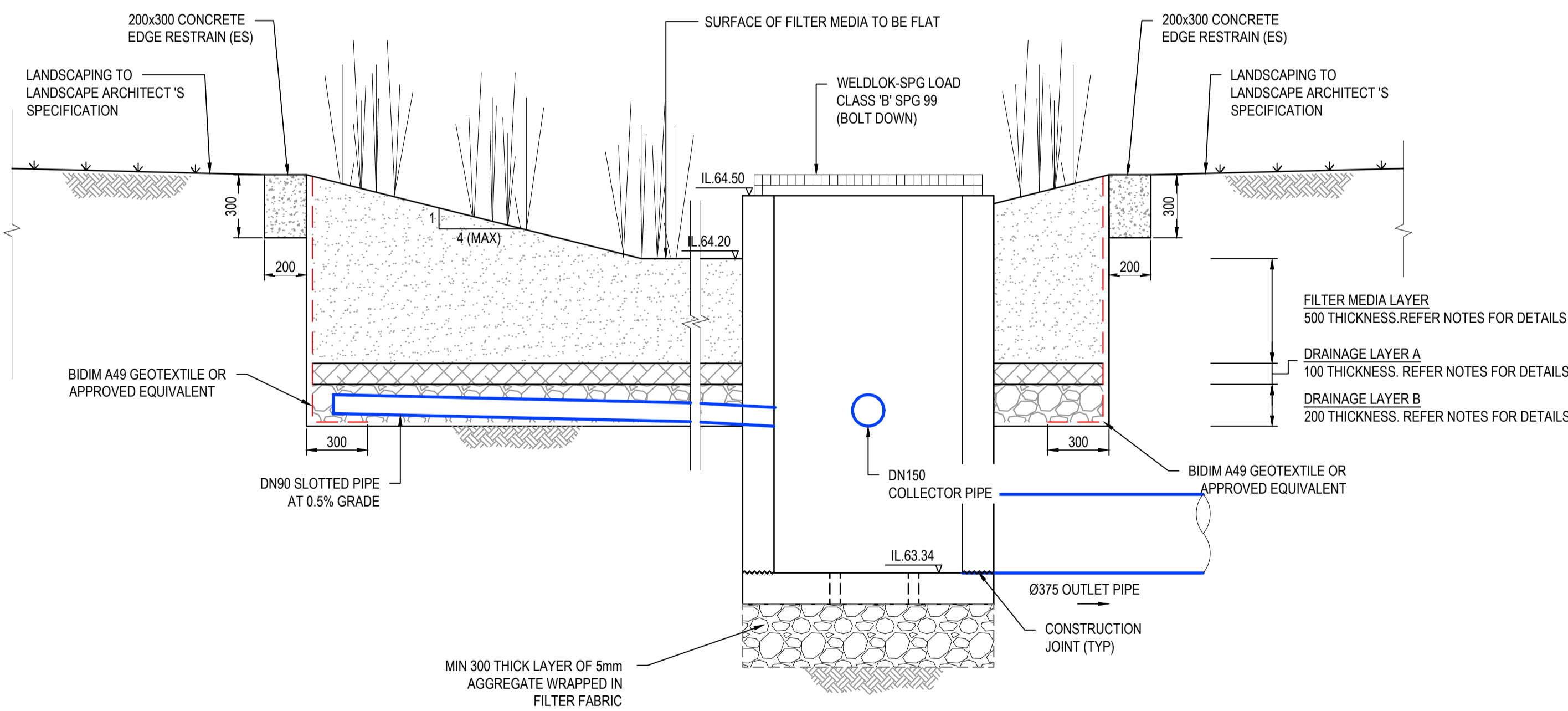
FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.



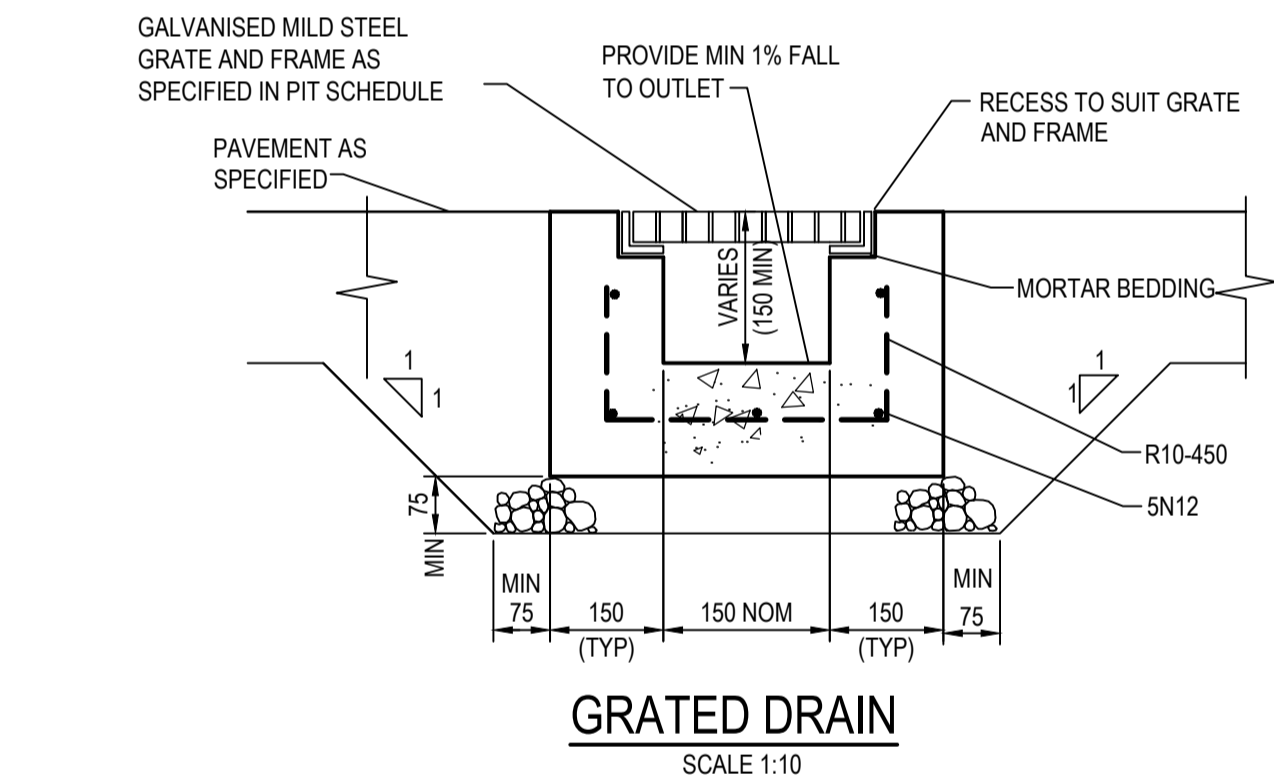
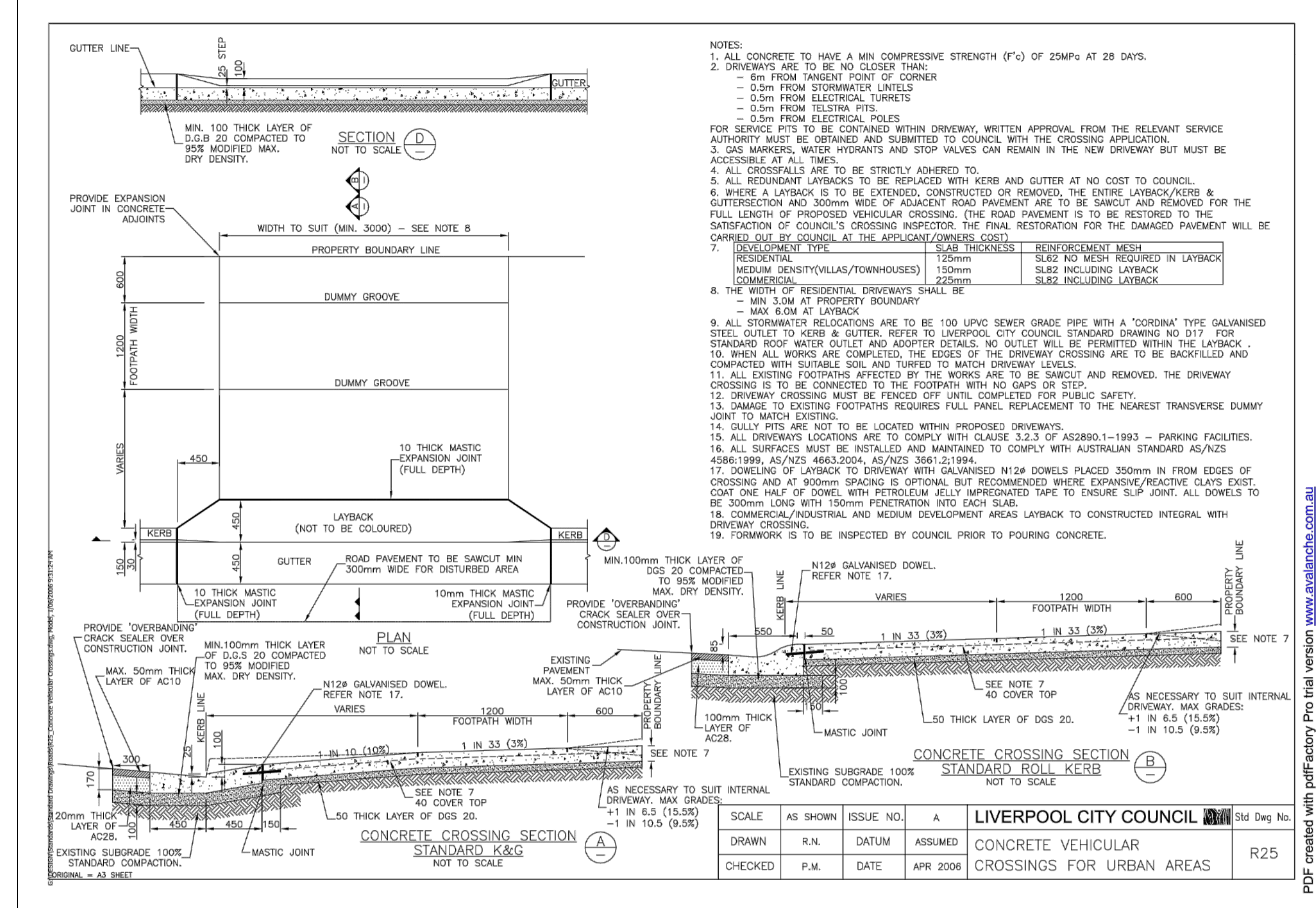
TYPICAL SECTION THROUGH PLANTED SWALE SCALE 1:10



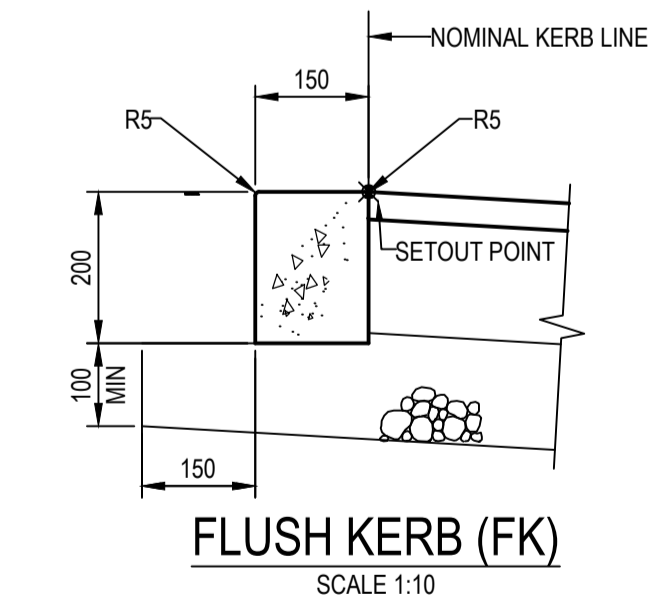
SUBSOIL PIPE FLUSH-OUT DETAIL SCALE 1:20



TYPICAL BIO-RETENTION FILTER MEDIA AND EDGE TREATMENT DETAIL SCALE 1:20



GRATED DRAIN SCALE 1:10



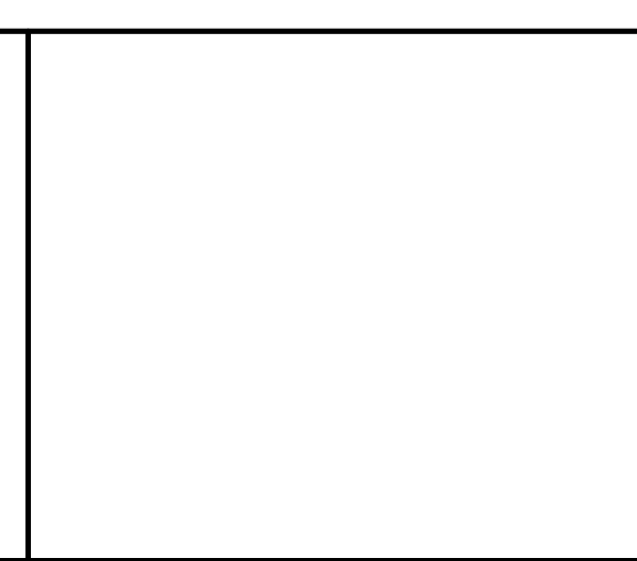
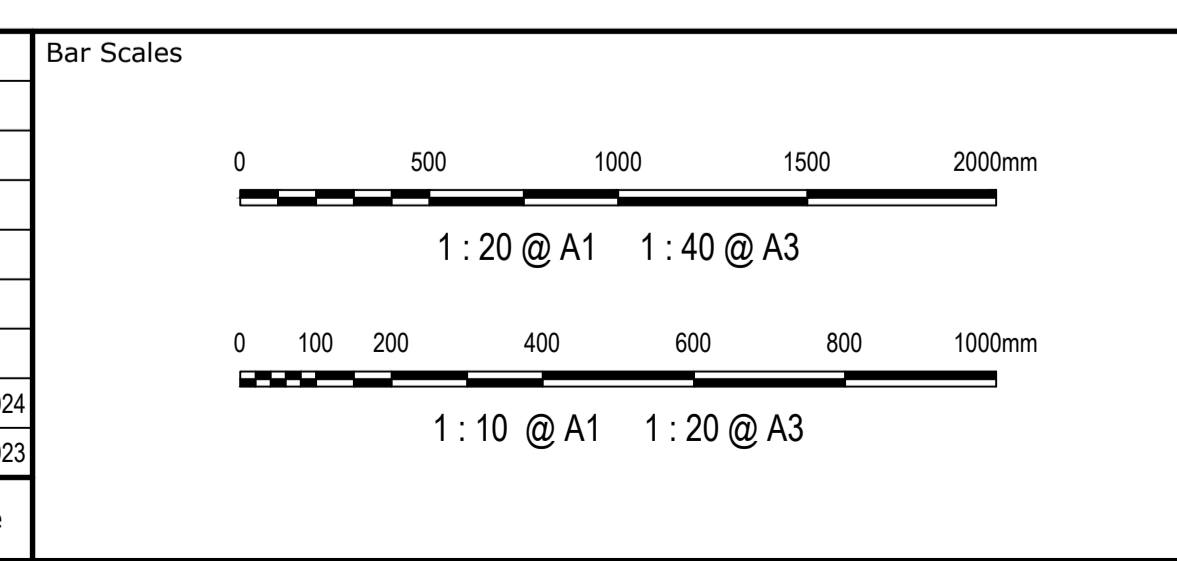
FLUSH KERB (FK) SCALE 1:10

- NOTES:
- ALL CONCRETE TO HAVE A MIN COMPRESSIVE STRENGTH (f<sub>c</sub>) OF 25MPa AT 28 DAYS.
  - DRIVEWAYS ARE TO BE NO CLOSER THAN:
    - 6m FROM TANGENT POINT OF CORNER
    - 0.5m FROM STORMWATER LINES
    - 0.5m FROM ELECTRICAL TURRETS
    - 0.5m FROM TELSTRA PITS
    - 0.5m FROM ELECTRICAL POLES
  - GAS MARKERS, WATER HYDRANTS AND STOP VALVES CAN REMAIN IN THE NEW DRIVEWAY BUT MUST BE ACCESSIBLE AT ALL TIMES.
  - ALL CROSSFALLS ARE TO BE STRICTLY ADHERED TO.
  - ALL REDUNDANT LAYBACKS TO BE REPLACED WITH KERB AND GUTTER AT NO COST TO COUNCIL.
  - WHERE A LAYBACK IS TO BE EXTENDED, CONSTRUCTED OR REMOVED, THE ENTIRE LAYBACK/KERB & GUTTERSECTION AND 300mm WIDE OF ADJACENT ROAD PAVEMENT ARE TO BE SAWCUT AND REMOVED FOR THE FULL LENGTH OF PROPOSED VEHICULAR CROSSING. (THE ROAD PAVEMENT IS TO BE RESTORED TO THE SATISFACTION OF COUNCIL'S CROSSING INSPECTOR. THE FINAL RESTORATION FOR THE DAMAGED PAVEMENT WILL BE CARRIED OUT BY COUNCIL AT THE APPLICANT/OWNER'S COST).
  - DEVELOPMENT TYPE SLAB THICKNESS REINFORCEMENT MESH
 

| DEVELOPMENT TYPE                   | SLAB THICKNESS | REINFORCEMENT MESH               |
|------------------------------------|----------------|----------------------------------|
| RESIDENTIAL (VILLAS/TOWNHOUSES)    | 125mm          | SLB2 NO MESH REQUIRED IN LAYBACK |
| MEDIUM DENSITY (VILLAS/TOWNHOUSES) | 150mm          | SLB2 INCLUDING LAYBACK           |
| COMMERCIAL                         | 225mm          | SLB2 INCLUDING LAYBACK           |
  - THE WIDTH OF RESIDENTIAL DRIVEWAYS SHALL BE:
    - MIN 3.0M AT PROPERTY BOUNDARY
    - MAX 6.0M AT LAYBACK
  - ALL STORMWATER RELOCATIONS ARE TO BE 100 LIPVC SEWER GRADE PIPE WITH A 'CORONA' TYPE GALVANISED STEEL OUTLET TO KERB & GUTTER. REFER TO LIVERPOOL CITY COUNCIL STANDARD DRAWING NO D17 FOR STANDARD ROOF WATER OUTLET AND ADAPTER DETAILS. NO OUTLET WILL BE PERMITTED WITHIN THE LAYBACK.
  - WHEN ALL WORKS ARE COMPLETED, THE EDGES OF THE DRIVEWAY CROSSING ARE TO BE BACKFILLED AND COMPACTED WITH SUITABLE SOIL AND TURFED TO MATCH DRIVEWAY LEVELS.
  - ALL EXISTING FOOTPATHS AFFECTED BY THE WORKS ARE TO BE SAWCUT AND REMOVED. THE DRIVEWAY CROSSING IS TO BE CONNECTED TO THE FOOTPATH WITH NO GAPS OR STEP.
  - DRIVEWAY CROSSING MUST BE FENCED OFF UNTIL COMPLETED FOR PUBLIC SAFETY.
  - DAMAGE TO EXISTING FOOTPATHS REQUIRES FULL PANEL REPLACEMENT TO THE NEAREST TRANSVERSE DUMMY JOINT TO MATCH EXISTING.
  - GULLY PITS ARE NOT TO BE LOCATED WITHIN PROPOSED DRIVEWAYS.
  - ALL DRIVEWAYS LOCATIONS ARE TO COMPLY WITH CLAUSE 3.2.3 OF AS2890.1-1993 - PARKING FACILITIES.
  - ALL SURFACES MUST BE INSTALLED AND MAINTAINED TO COMPLY WITH AUSTRALIAN STANDARD AS/NZS 4586:1999, AS/NZS 4663:2004, AS/NZS 3861:2019.
  - DOWELING OF LAYBACK TO DRIVEWAY WITH GALVANISED N12# DOWELS PLACED 350mm IN FROM EDGES OF CROSSING AND AT 900mm SPACING IS OPTIONAL BUT RECOMMENDED WHERE EXPANSIVE/REACTIVE CLAYS EXIST. COAT ONE HALF OF DOWEL WITH PETROLEUM JELLY IMPREGNATED TAPE TO ENSURE SLIP JOINT. ALL DOWELS TO BE 300mm LONG WITH 150mm PENETRATION INTO EACH SLAB.
  - COMMERCIAL/INDUSTRIAL AND MEDIUM DEVELOPMENT AREAS LAYBACK TO CONSTRUCTED INTEGRAL WITH DRIVEWAY CROSSING.
  - FORMWORK IS TO BE INSPECTED BY COUNCIL PRIOR TO POURING CONCRETE.

| SCALE   | AS SHOWN | ISSUE NO. | A        | LIVERPOOL CITY COUNCIL                       | Std Dwg No. |
|---------|----------|-----------|----------|--|-------------|
| DRAWN   | R.N.     | DATUM     | ASSUMED  | CONCRETE VEHICULAR CROSSINGS FOR URBAN AREAS | R25         |
| CHECKED | P.M.     | DATE      | APR 2006 |  |             |

| Issue | Description   | Date       |
|-------|---------------|------------|
| A     | ISSUED FOR DA | 05.04.2024 |
| P1    | DRAFT ISSUE   | 21.12.2023 |



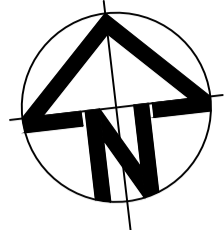
| Scales | AS SHOWN | Drawn    | RM |
|--------|----------|----------|----|
|        |          | Designed | SM |
|        |          | Checked  | SM |
|        |          | Approved | GJ |

| Grid         | MGA2020 | Project | 40 THE RETREAT BRINGELLY NSW 2556 |
|--------------|---------|---------|-----------------------------------|
| Height Datum | AHD     | Title   | SITWORKS DETAILS SHEET 1          |

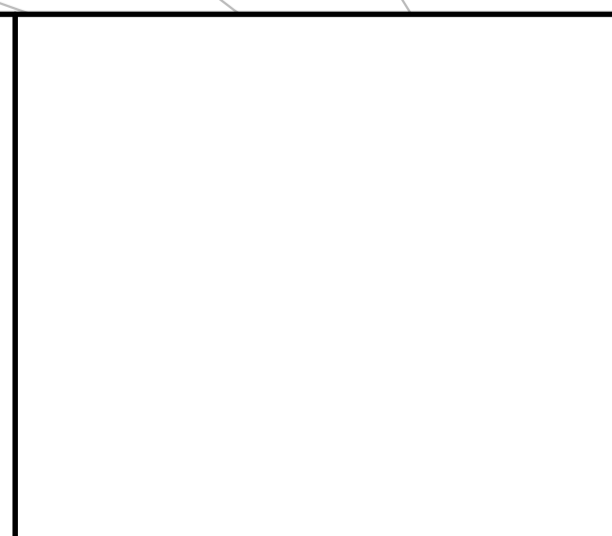
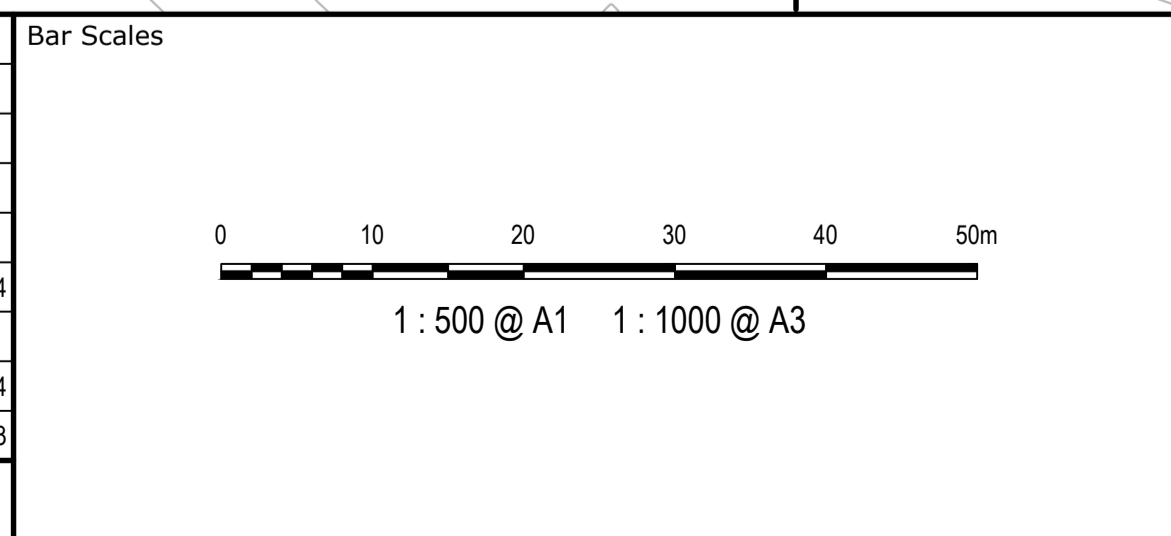
| Client | Civil Engineers and Project Managers  |
|--------|---|
|        | Level 7, 153 Walker Street North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.at.net.au<br>info@at.net.au |

| Status                | ISSUED FOR APPROVAL NOT FOR CONSTRUCTION | A1      |
|-----------------------|--|---------|
| Project - Drawing No. | 23-1110-C0030                            | Issue A |





| Issue | Description   | Date       |
|-------|---------------|------------|
| C     | ISSUED FOR DA | 03.06.2024 |
| B     | ISSUED FOR DA | 15.04.24   |
| A     | ISSUED FOR DA | 05.04.2024 |
| P1    | DRAFT ISSUE   | 21.12.2023 |



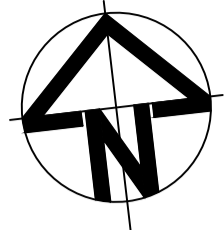
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|--------------|--|--|--|---------|----------|----|
| Client       |  |  |  |         |          |    |
| Scales       |  |  |  | 1:500   | Drawn    | RM |
| Grid         |  |  |  | MGA2020 | Checked  | SM |
| Height Datum |  |  |  | AHD     | Approved | GJ |

|         |                                   |  |  |
|---------|-----------------------------------|--|--|
| Project | 40 THE RETREAT BRINGELLY NSW 2556 |  |  |
| Title   | STORMWATER CATCHMENT PLAN         |  |  |

|   |   |
|---|---|
| Civil Engineers and Project Managers  |   |
|   |   |
| <small>Level 7, 153 Walker Street<br/>North Sydney NSW 2060<br/>ABN 96 130 882 405<br/>Tel: 02 9439 1777<br/>Fax: 02 9923 1055<br/>www.atl.net.au<br/>info@atl.net.au</small> |   |
| Status  | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.   | 23-1110-C0040                               |
| Issue   | C   |

|   |   |
|---|---|
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| Status  | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.   | 23-1110-C0040                               |
| Issue   | C   |

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16m LOCAL STREET (FUTURE)

**INTERIM WATER QUALITY MODELLING NOTES**

1. RAINWATER TANK - 100KL
  - 1.1. REUSE FOR NON-POTABLE WATER IN ACCORDANCE WITH MUSIC MODELLING TOOLKIT - WIANAMATTA
  - 1.2. 100% OF LANDSCAPE AREA TO BE IRRIGATED
2. IT IS ASSUMED THAT THE SYDNEY WATER REGIONAL INFRASTRUCTURE WILL BE IN PLACE AT THE TIME THAT STAGE 2 IS BUILT. THE COMPLETED DEVELOPMENTS WATER QUALITY WILL BE ADDRESSED BY THE REGIONAL INFRASTRUCTURE.

GROUND 1  
0.0286 ha  
50% IMP.

ROOF 1 TO RWT  
0.1741 ha  
70% IMP.

ROOF 2 TO RWT  
0.1567 ha  
90% IMP.

GROUND 2 TO SWALE AND  
OSD TANK/STORMFILTER  
0.3096 ha  
10% IMP.

ROOF 3 TO RWT  
0.1613 ha  
90% IMP.

GROUND 3  
0.1283 ha  
30% IMP.  
TO INTERIM POND

GROUND 4 TO OSD  
TANK/STORMFILTERS  
0.0629 ha  
30% IMP.

GROUND 5  
0.1537 ha  
0% IMP.  
TO INTERIM POND

22.5m COLLECTOR ROAD (FUTURE)

INTERIM ROAD & BATTERS  
0.4721 ha  
50% IMP.  
TO INTERIM POND

INTERIM  
0.4408 ha  
0% IMP.  
TO INTERIM POND

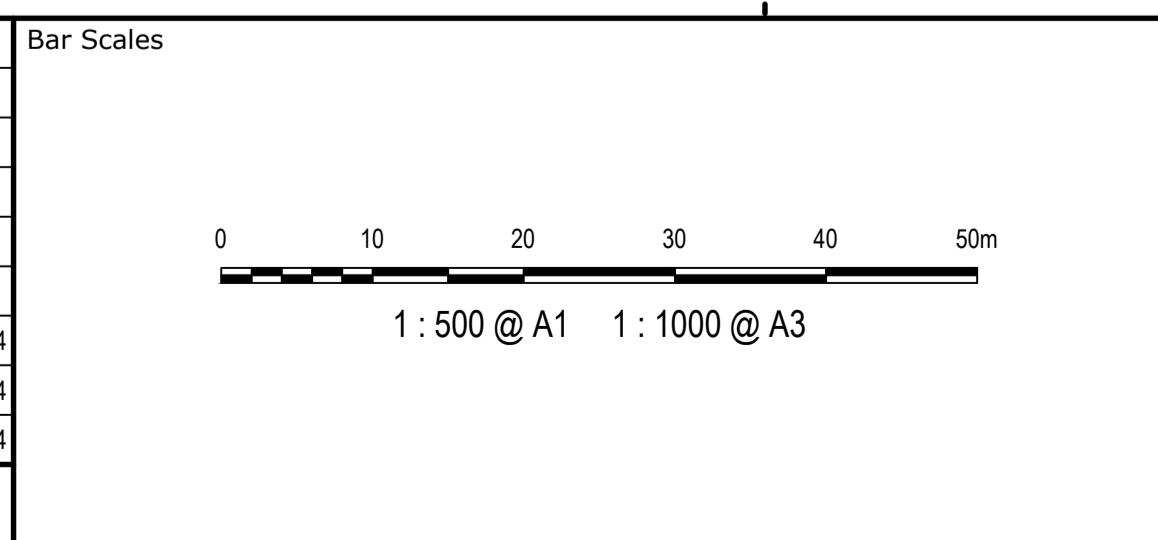
INTERIM SWALE 2 - 123m

INTERIM SWALE 1 - 95m

16m LOCAL STREET (FUTURE)

THE RETREAT

| Issue | Description   | Date       |
|-------|---------------|------------|
| C     | ISSUED FOR DA | 07.06.2024 |
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |



|              |              |          |    |
|--------------|--------------|----------|----|
| Client       | SATHIO GROUP |          |    |
| Scales       | 1:500        | Drawn    | RM |
|              |              | Designed | SM |
| Grid         | MGA2020      | Checked  | SM |
| Height Datum | AHD          | Approved | GJ |

GDA2020

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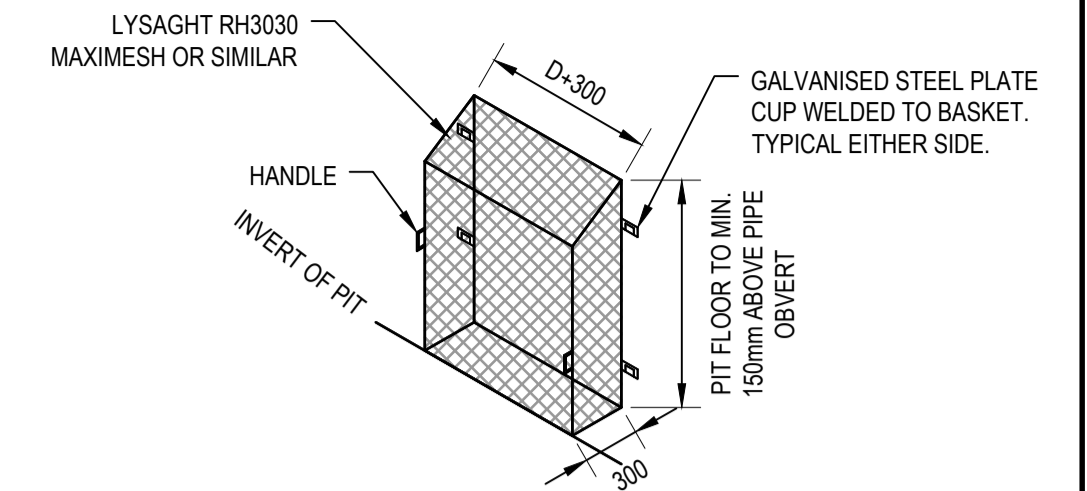
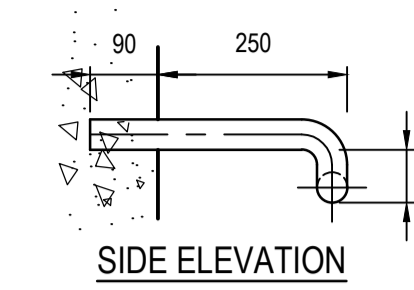
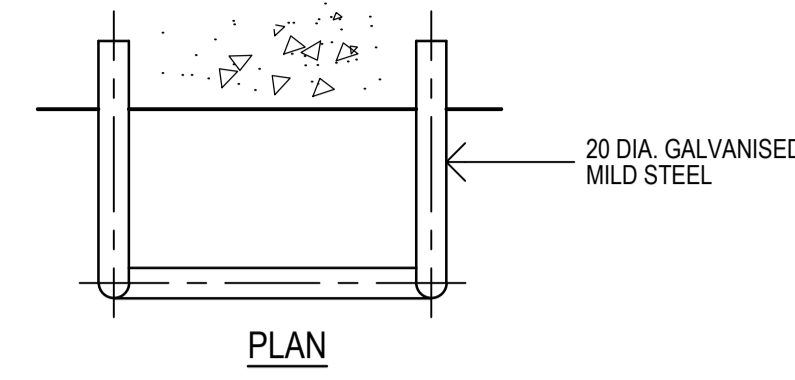
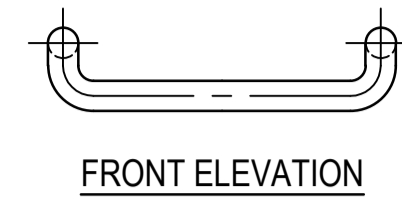
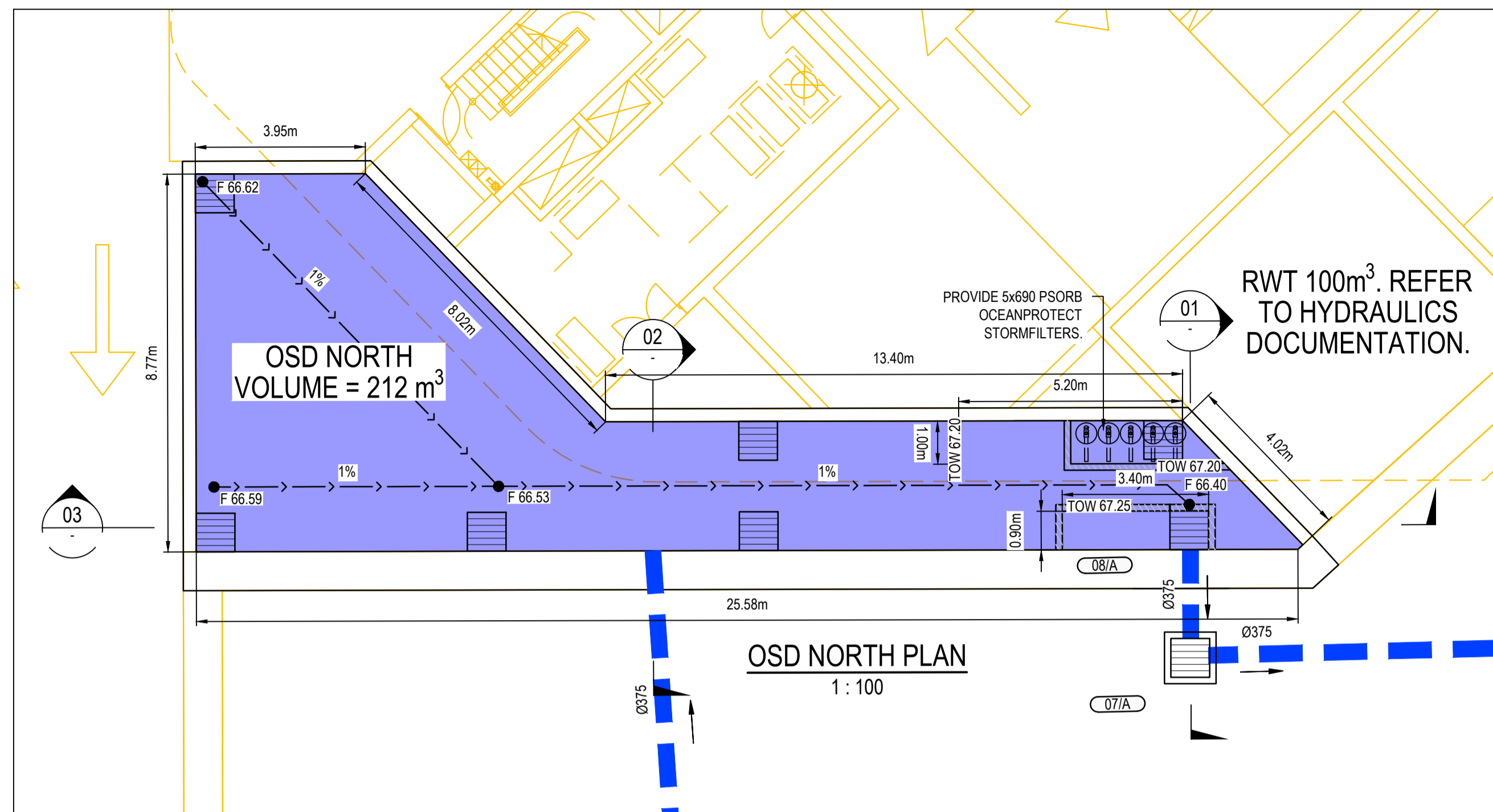
|         |   |
|---------|---|
| Project | 40 THE RETREAT<br>BRINGELLY<br>NSW 2556 |
| Title   | STAGE 1<br>MUSIC CATCHMENT<br>PLAN      |

Civil Engineers and Project Managers

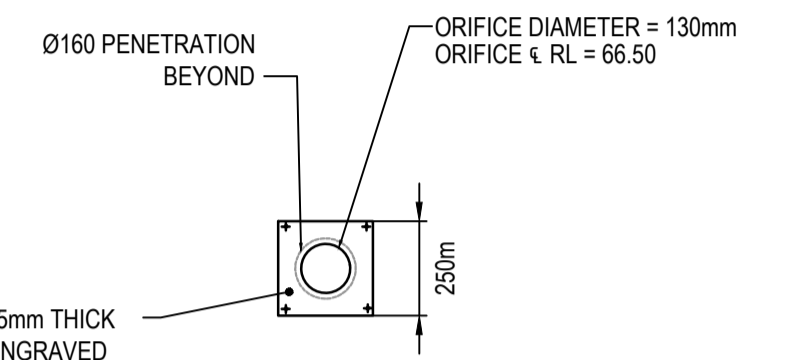
**at&i**

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North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

|                       |   |       |
|-----------------------|---|-------|
| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0045                               | Issue |
|                       |   | C     |

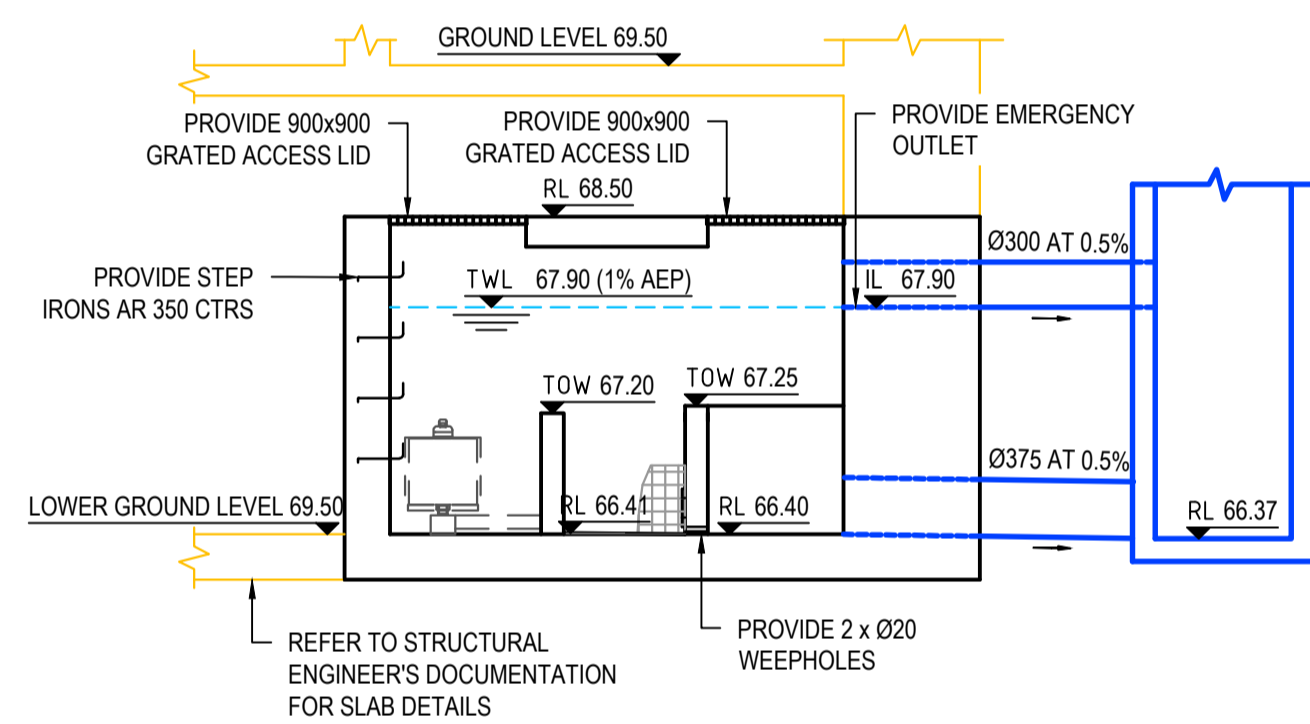


SCREEN MESH DETAILS  
NOT TO SCALE

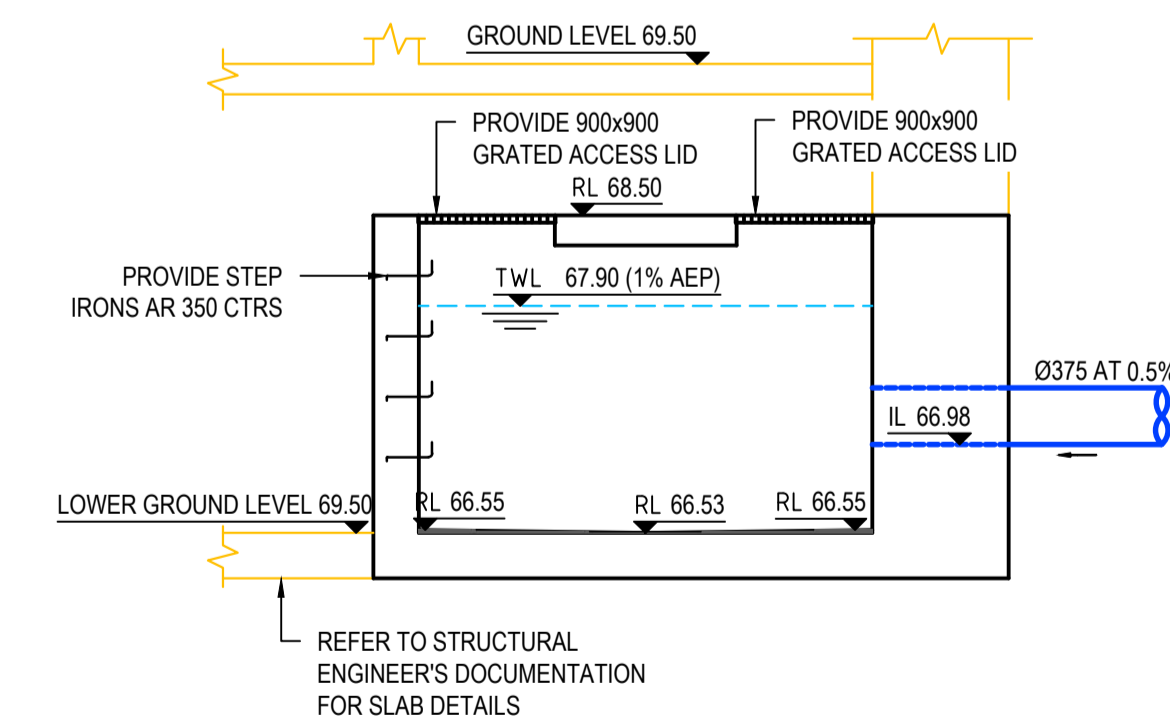


STAINLESS STEEL PLATE = 5mm THICK  
ORIFICE DIAMETER TO BE ENGRAVED  
ON THE PLATE SURFACE.  
(EPOXY SEALED AND DYNABOLTED TO  
WALL USING M12 DYNABOLTS).

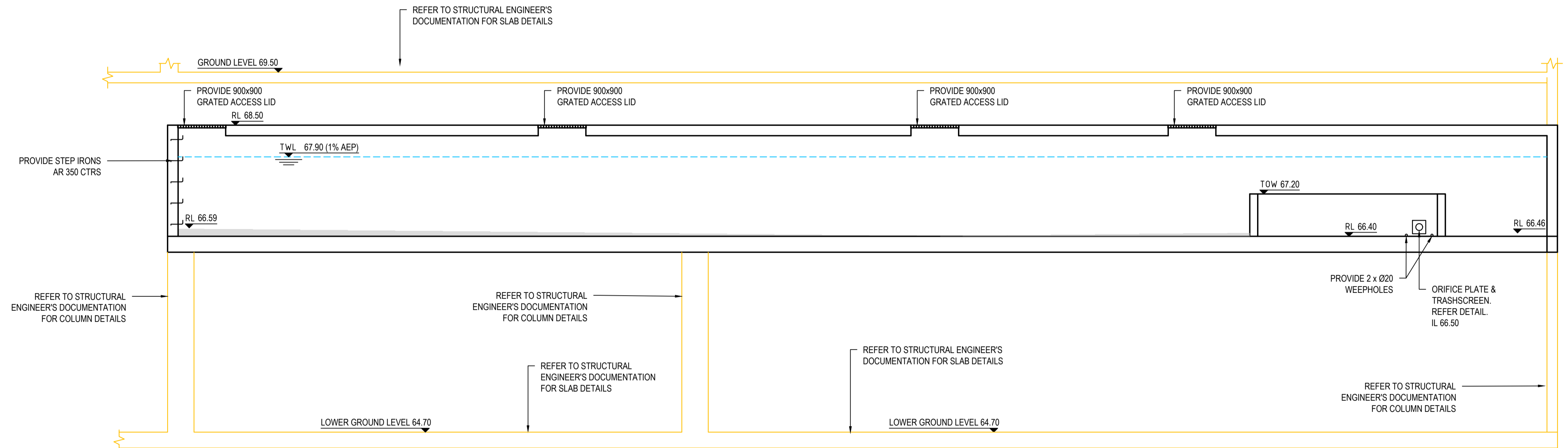
NORTH OSD ORIFICE PLATE DETAIL  
SCALE 1:20



SECTION 1  
1:50

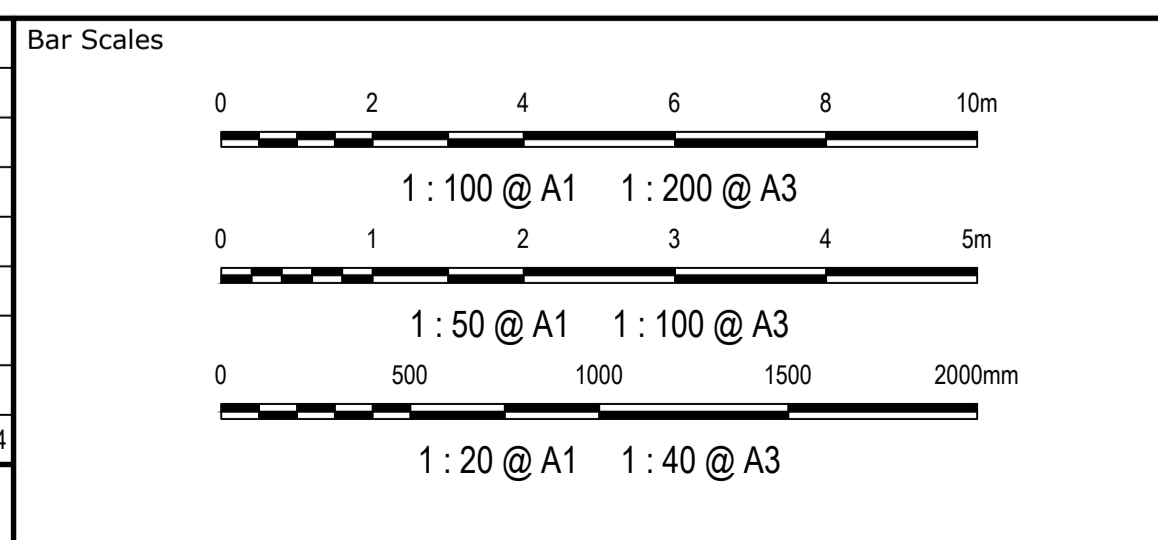


SECTION 2  
1:50



SECTION 3  
1:50

| Issue | Description   | Date       |
|-------|---------------|------------|
| A     | ISSUED FOR DA | 05.04.2024 |

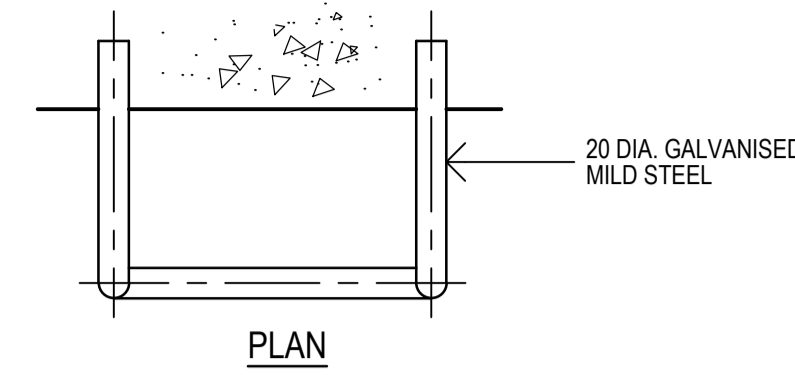
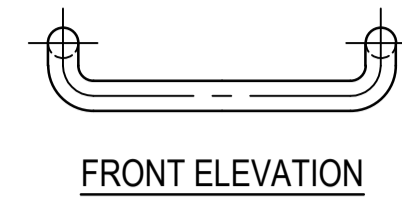
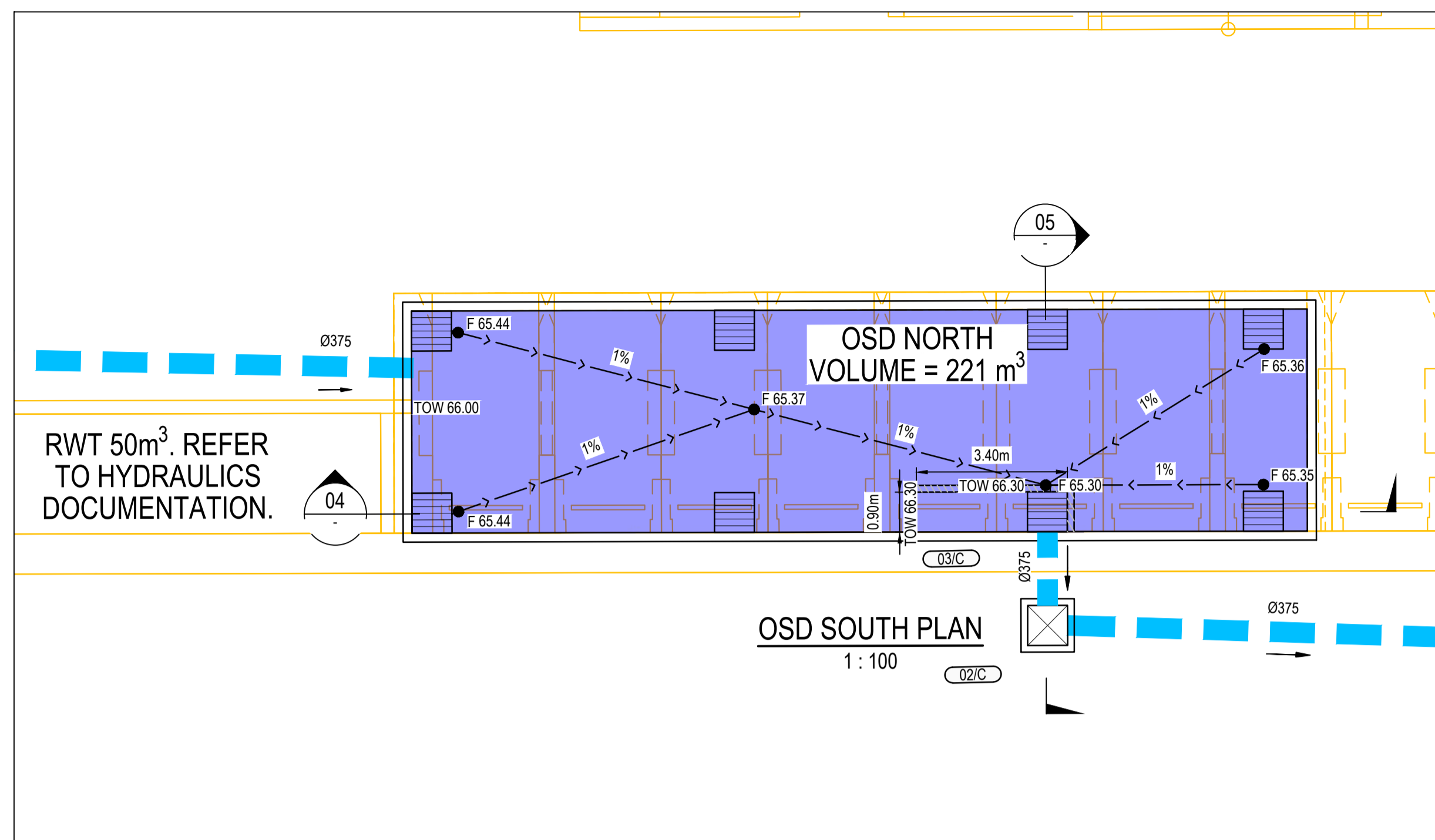


|              |                       |                               |
|--------------|-----------------------|-------------------------------|
| Client       | SATHIO GROUP          |                               |
| Scales       | 1:100<br>1:50<br>1:20 | Drawn<br>RM<br>Designed<br>SM |
| Grid         | MGA2020               | Checked<br>SM                 |
| Height Datum | AHD                   | Approved<br>GJ                |

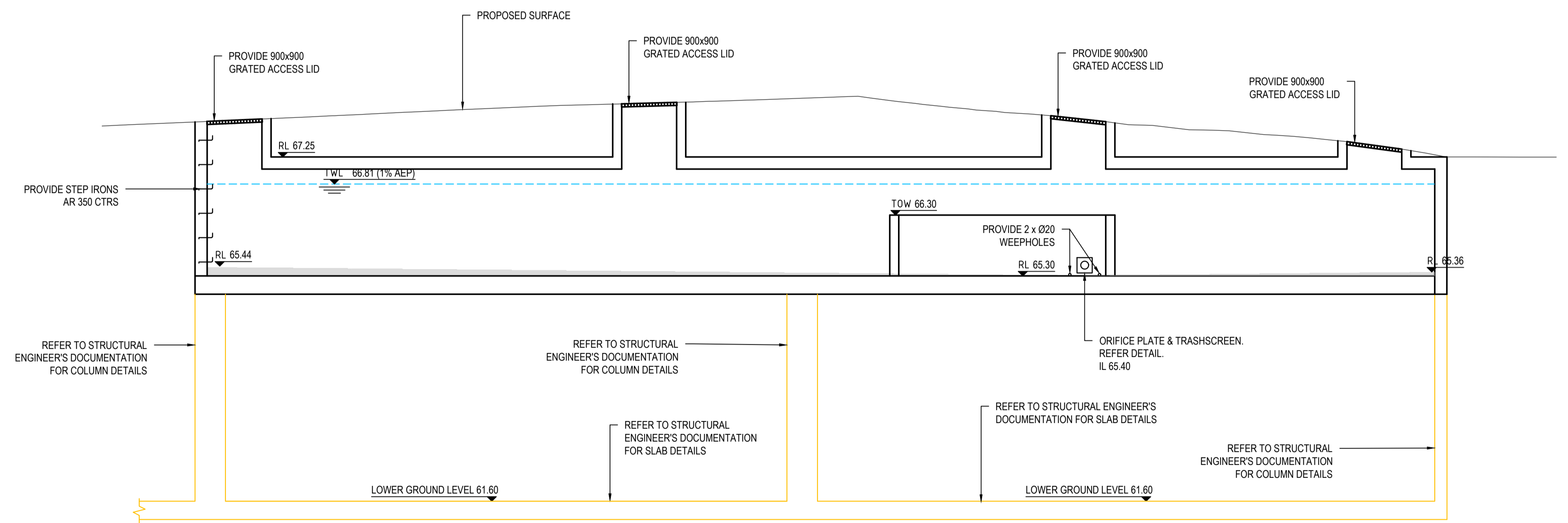
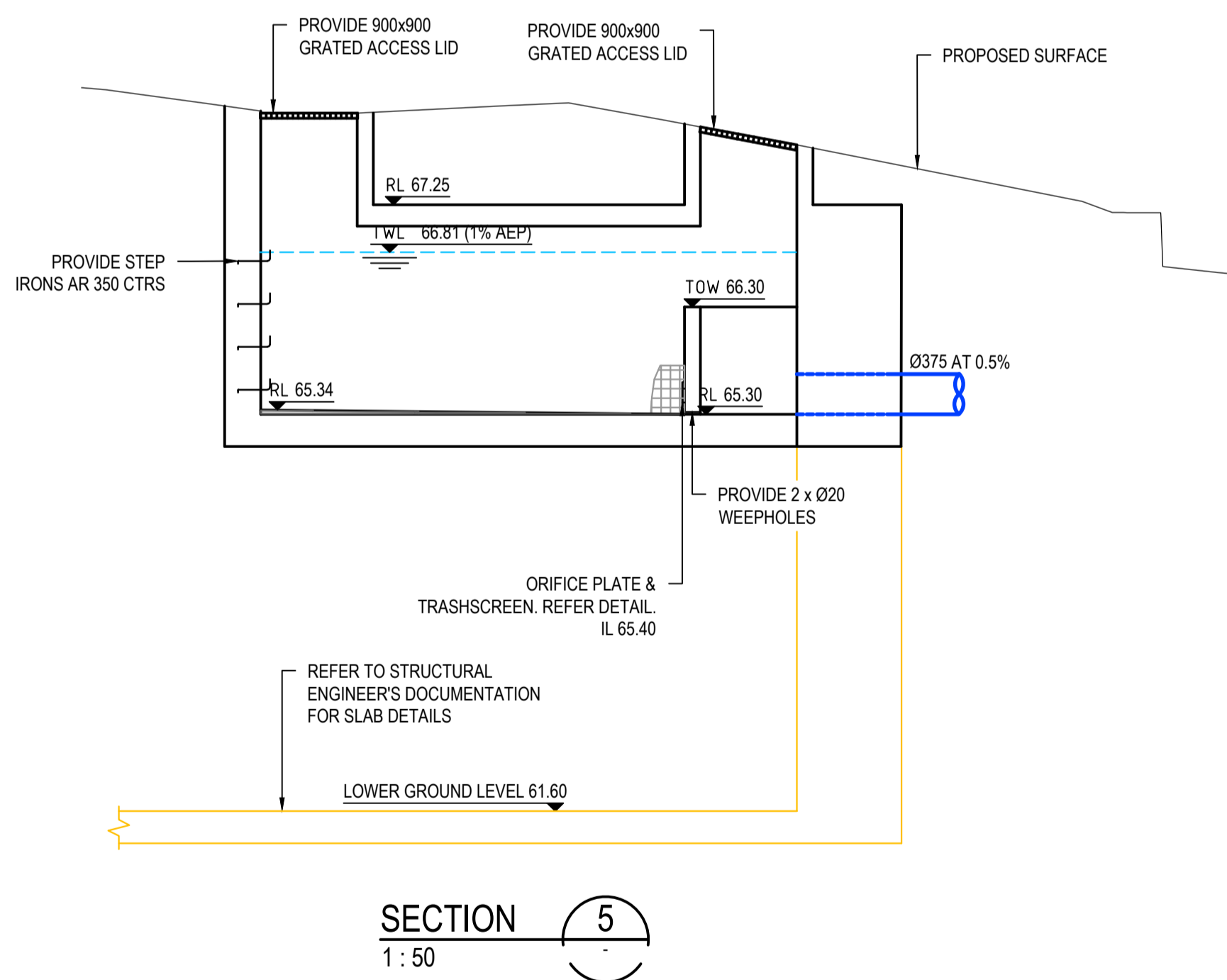
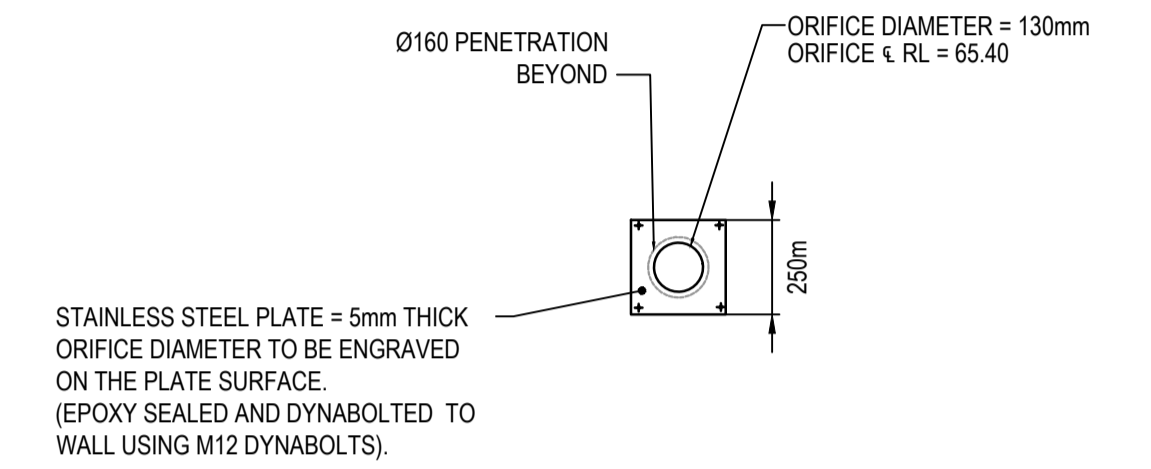
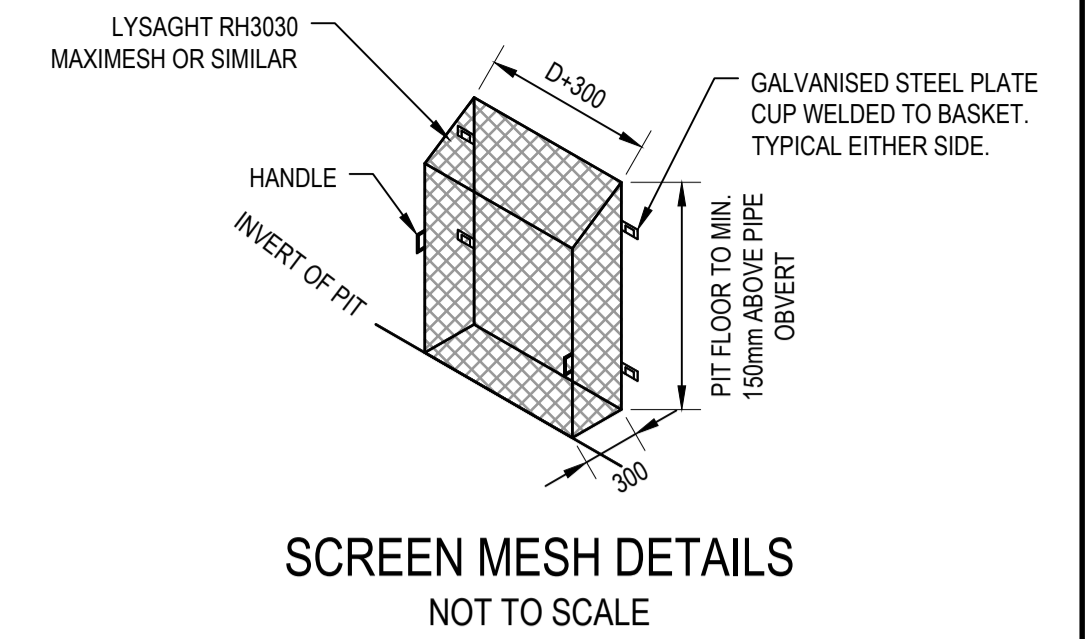
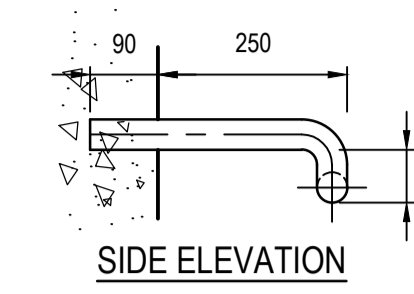
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|---------|-----------------------------------|--|
| Project | 40 THE RETREAT BRINGELLY NSW 2556 |  |
| Title   | OSD PLANS AND SECTIONS SHEET 1    |  |

|  |   |
|--|---|
| Civil Engineers and Project Managers   |   |
|  |   |
| Level 7, 153 Walker Street<br>North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.atl.net.au<br>info@atl.net.au |   |
| Status   | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.  | 23-1110-C0047                               |
| Issue  | A   |

|  |   |
|--|---|
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| Status   | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.  | 23-1110-C0047                               |
| Issue  | A   |



STEP IRON DETAIL  
NTS



| Issue | Description   | Date       |
|-------|---------------|------------|
| A     | ISSUED FOR DA | 05.04.2024 |

| Bar Scales             |                       |
|------------------------|-----------------------|
| 0 2 4 6 8 10m          | 1:100 @ A1 1:200 @ A3 |
| 0 1 2 3 4 5m           | 1:50 @ A1 1:100 @ A3  |
| 0 500 1000 1500 2000mm | 1:20 @ A1 1:40 @ A3   |



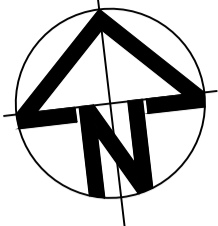
|        |              |
|--------|--------------|
| Client | SATHIO GROUP |
|--------|--------------|

|              |                       |          |    |
|--------------|-----------------------|----------|----|
| Scales       | 1:100<br>1:50<br>1:20 | Drawn    | RM |
| Grid         | MGA2020               | Designed | SM |
| Height Datum | AHD                   | Checked  | SM |
|              |                       | Approved | GJ |

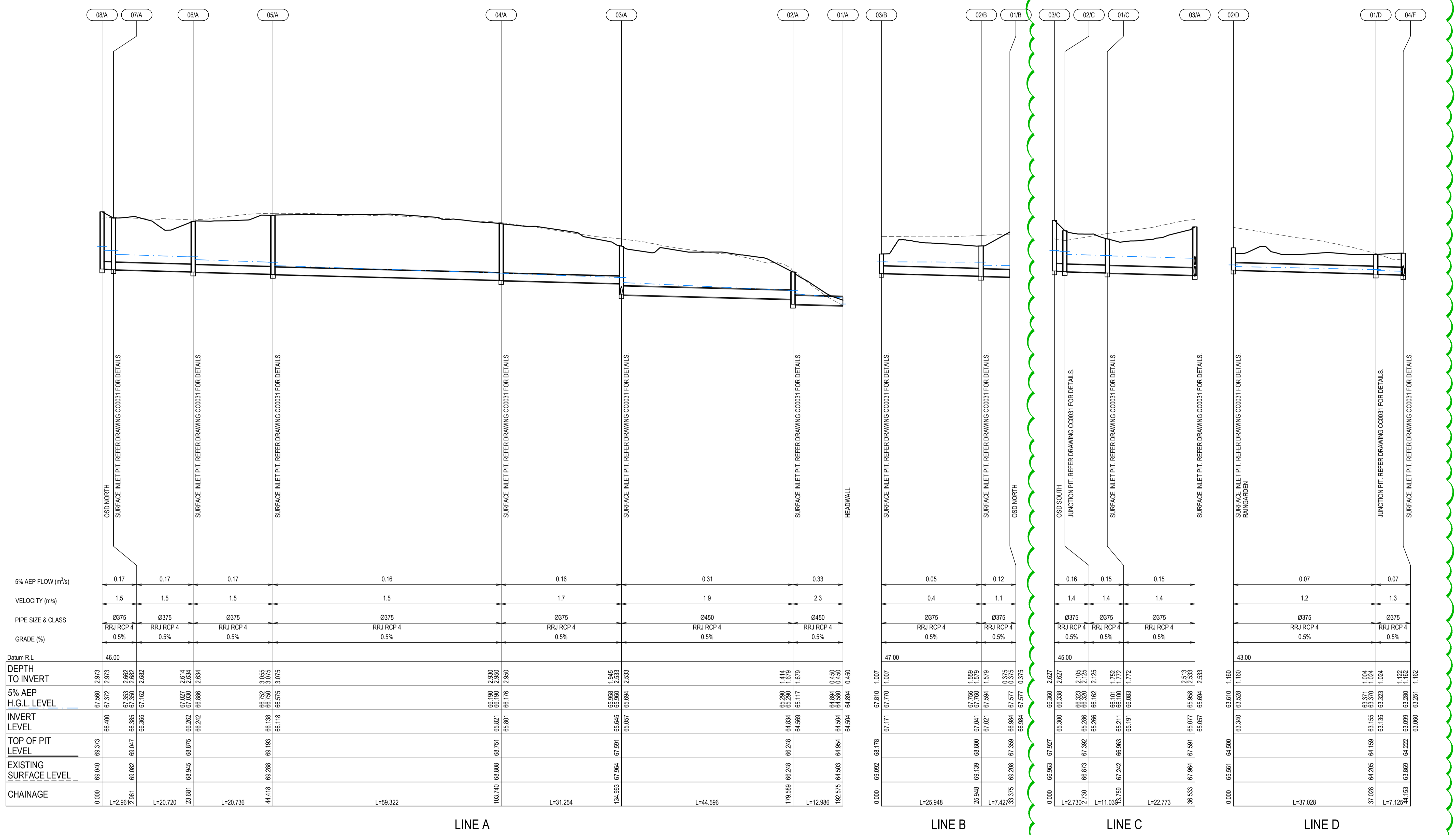
|         |                                   |
|---------|-----------------------------------|
| Project | 40 THE RETREAT BRINGELLY NSW 2556 |
| Title   | OSD PLANS AND SECTIONS SHEET 2    |

|  |   |
|--|---|
| Civil Engineers and Project Managers   |   |
|  |   |
| Level 7, 153 Walker Street<br>North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.atl.net.au<br>info@atl.net.au |   |
| Status   | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION |
| Project - Drawing No.  | 23-1110-C0048                               |
| Issue  | A   |

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STAGE 2



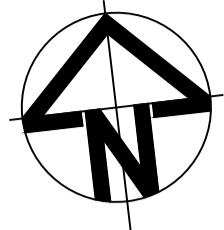
LINE A

LINE B

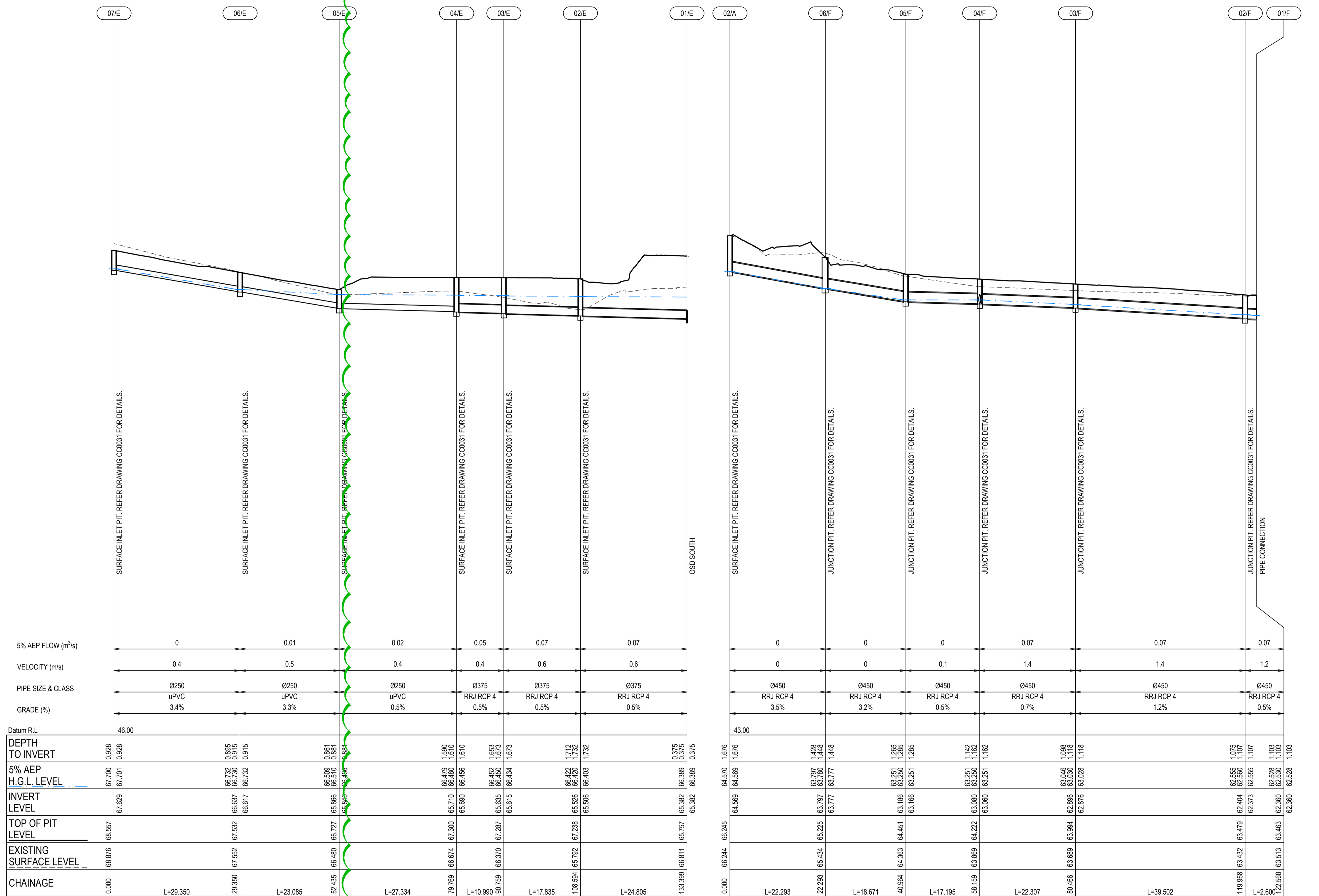
LINE C

LINE D

|                                   |  |                     |  |                                      |  |                               |  |  |  |   |  |                       |
|-----------------------------------|--|---------------------|--|--------------------------------------|--|-------------------------------|--|--|--|---|--|-----------------------|
| <p>Bar Scales</p>                 |  | <p>Client</p>       |  | <p>Scales</p> <p>1:500<br/>1:100</p> |  | <p>Drawn</p> <p>RM<br/>SM</p> |  | <p>Project</p> <p>40 THE RETREAT<br/>BRINGELLY<br/>NSW 2556</p>      |  | <p>Civil Engineers and Project Managers</p> <p>Level 7, 153 Walker Street<br/>North Sydney NSW 2060<br/>ABN 96 130 882 405<br/>Tel: 02 9439 1777<br/>Fax: 02 9923 1055<br/>www.atl.net.au<br/>info@atl.net.au</p> |  |                       |
| <p>A ISSUED FOR DA 05.04.2024</p> |  | <p>Grid MGA2020</p> |  | <p>Height Datum AHD</p>              |  | <p>Checked SM</p>             |  | <p>Title</p> <p>STORMWATER DRAINAGE<br/>LONGSECTIONS<br/>SHEET 1</p> |  | <p>Status</p> <p>ISSUED FOR APPROVAL<br/>NOT FOR CONSTRUCTION</p>   |  | <p>A1</p>             |
| <p>Issue Description Date</p>     |  | <p>Client</p>       |  | <p>Grid MGA2020</p>                  |  | <p>Checked SM</p>             |  | <p>Project</p>   |  | <p>Project - Drawing No.</p> <p>23-1110-C0050</p>   |  | <p>Issue</p> <p>A</p> |



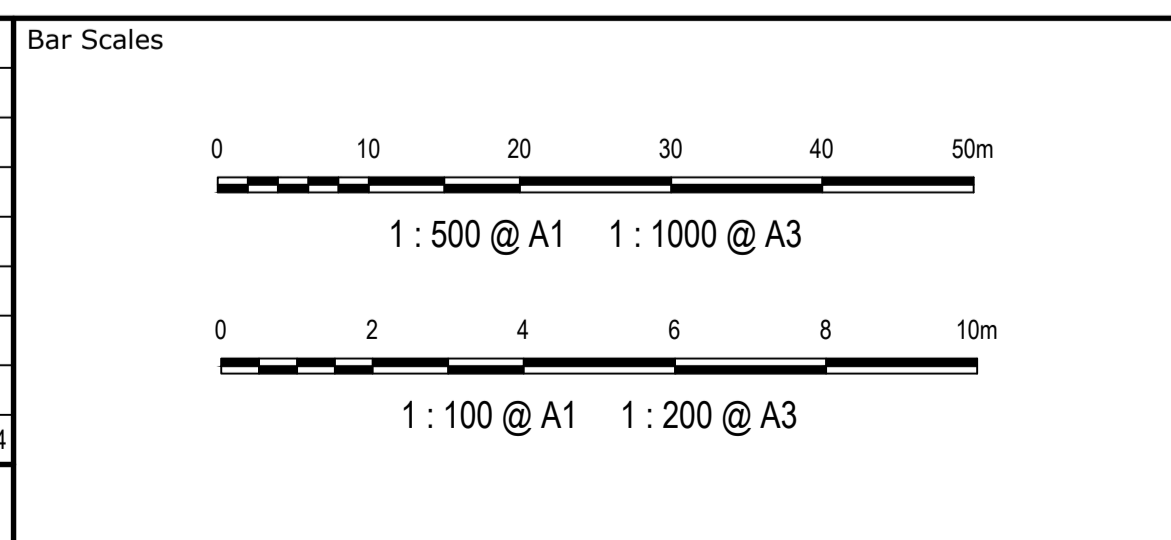
STAGE 2



LINE E

LINE F (ULTIMATE)

|       |               |            |
|-------|---------------|------------|
|       |               |            |
|       |               |            |
|       |               |            |
|       |               |            |
|       |               |            |
| A     | ISSUED FOR DA | 05.04.2024 |
| Issue | Description   | Date       |



Client

SATHIO GROUP

|   |                |          |    |
|---|----------------|----------|----|
| Scale   | 1:500<br>1:100 | Drawn    | RM |
| Grid  | MGA2020        | Checked  | SM |
| Height Datum  | AHD            | Approved | GJ |
|   |                |          |    |
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Project

**40 THE RETREAT  
BRINGELLY  
NSW 2556**

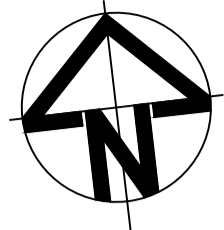
Title

**STORMWATER DRAINAGE  
LONGSECTIONS  
SHEET 2**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

|                       |   |       |
|-----------------------|---|-------|
| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0051                               | Issue |
|                       |   | A     |

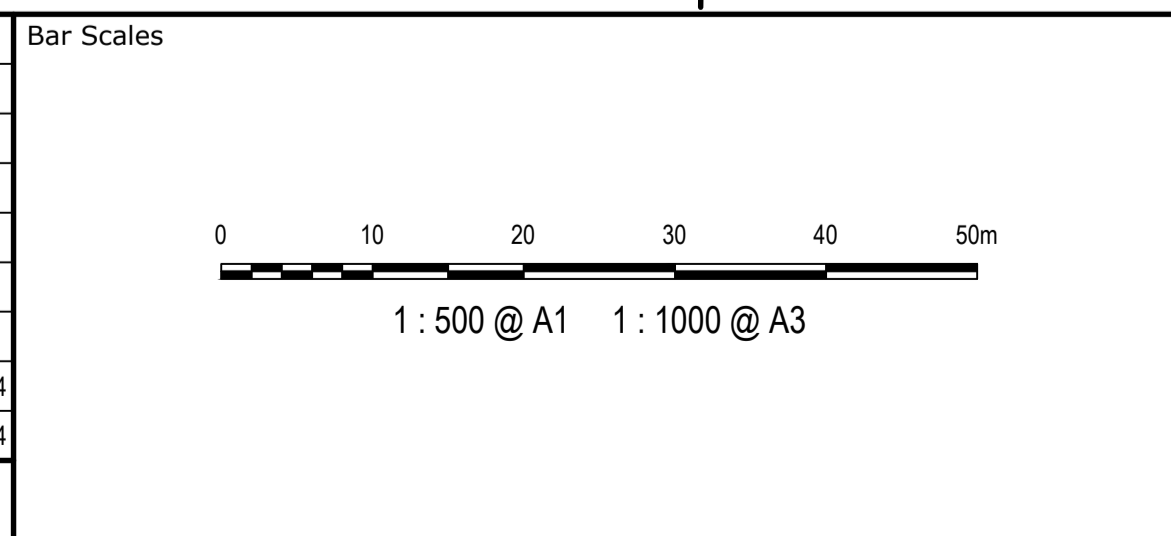


**PAVEMENT LEGEND**

- TYPE 1**  
 CONCRETE SLAB  
 • REFER TO STRUCTURAL DRAWINGS
- TYPE 2**  
 CONCRETE RAMP  
 • REFER TO STRUCTURAL DRAWINGS
- TYPE 3**  
 • PAVERS TO LANDSCAPE ARCHITECT'S SPECIFICATION ON  
 • 100mm THICK BASECOURSE COMPACTED TO 98% MAX DRY DENSITY ON  
 • COMPACTED SUBGRADE MIN. 4% CBR
- TYPE 4**  
 FLEXIBLE ROAD PAVEMENT  
 • 30mm THICK AC10 ON  
 • 7mm PRIME SEAL ON  
 • 150mm THICK DGB20 ON  
 • 150mm THICK DGS40 ON  
 • COMPACTED SUBGRADE MIN. 4% CBR
- TYPE 5**  
 CONCRETE FOOTPATH  
 • 100mm THICK 25MPa REINFORCED CONCRETE WITH SL72 MESH CENTRAL ON  
 • 100mm THICK BASECOURSE COMPACTED TO 98% MAX DRY DENSITY ON  
 • COMPACTED SUBGRADE MIN. 4% CBR
- TYPE 6**  
 SWALE  
 • REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- TYPE 7**  
 VEHICULAR CROSSING  
 • 225mm THICK 25MPa REINFORCED CONCRETE WITH SL72 MESH 40mm COVER ON  
 • 50mm THICK DGS20 ON  
 • COMPACTED SUBGRADE MIN. 4% CBR
- TYPE 8**  
 LANDSCAPE  
 • REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- TYPE 9**  
 BOARDWALK  
 • REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

NOTE:  
ALL PAVEMENT SPECIFICATIONS ARE SUBJECT TO DETAILED DESIGN AND FURTHER COORDINATION WITH LANDSCAPE ARCHITECTS.

|       |               |            |
|-------|---------------|------------|
|       |               |            |
|       |               |            |
|       |               |            |
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |
| Issue | Description   | Date       |



Client



|   |         |          |    |
|---|---------|----------|----|
| Scales  | 1:500   | Drawn    | RM |
|   |         | Designed | SM |
| Grid  | MGA2020 | Checked  | SM |
| Height Datum  | AHD     | Approved | TM |
|   |         |          |    |
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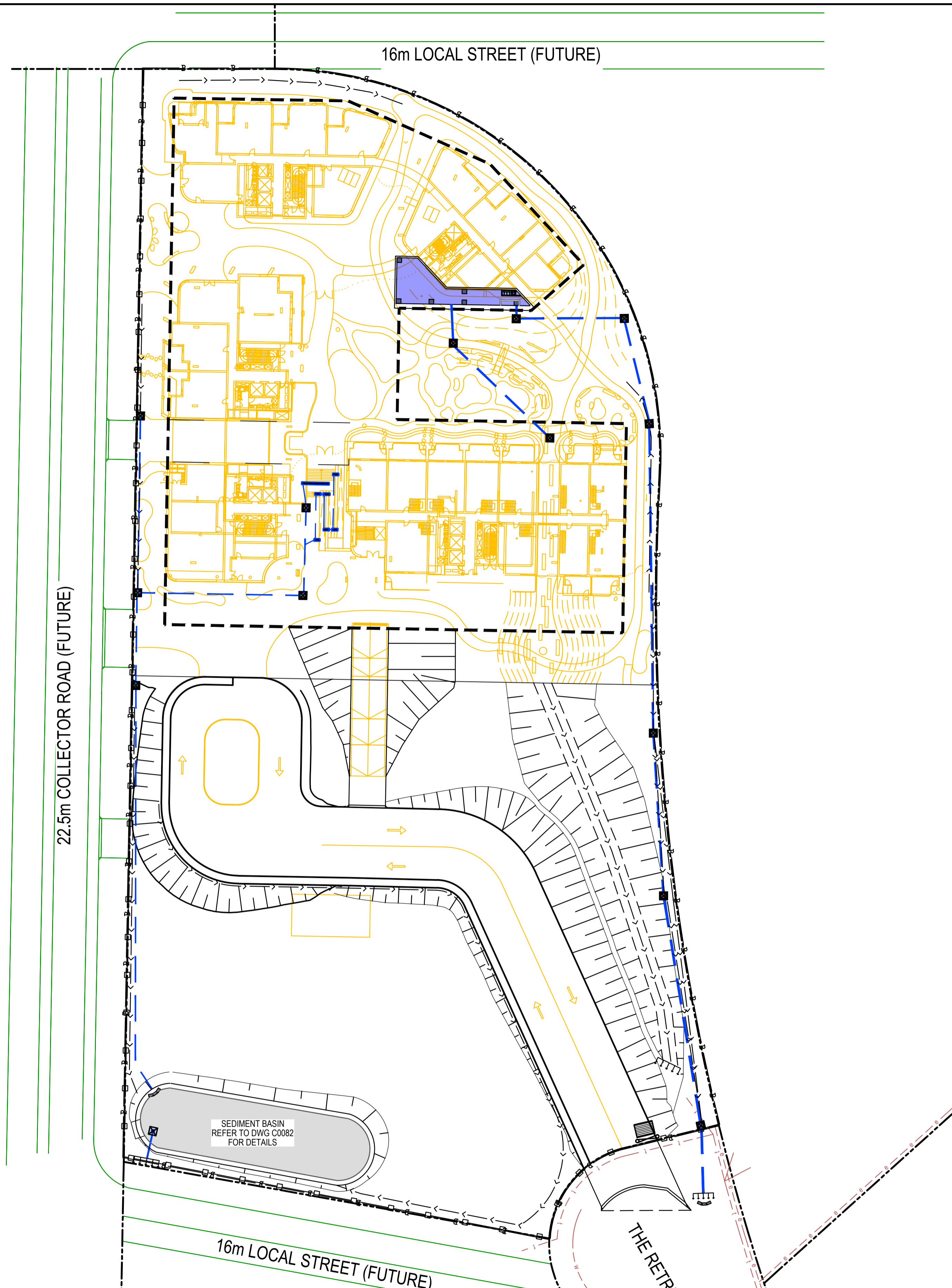
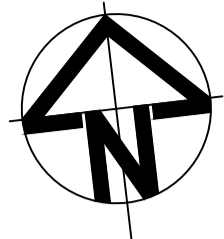
Project  
**40 THE RETREAT  
BRINGELLY  
NSW 2556**

Title  
**PAVEMENT AND FINISHES  
PLAN**

Civil Engineers and Project Managers

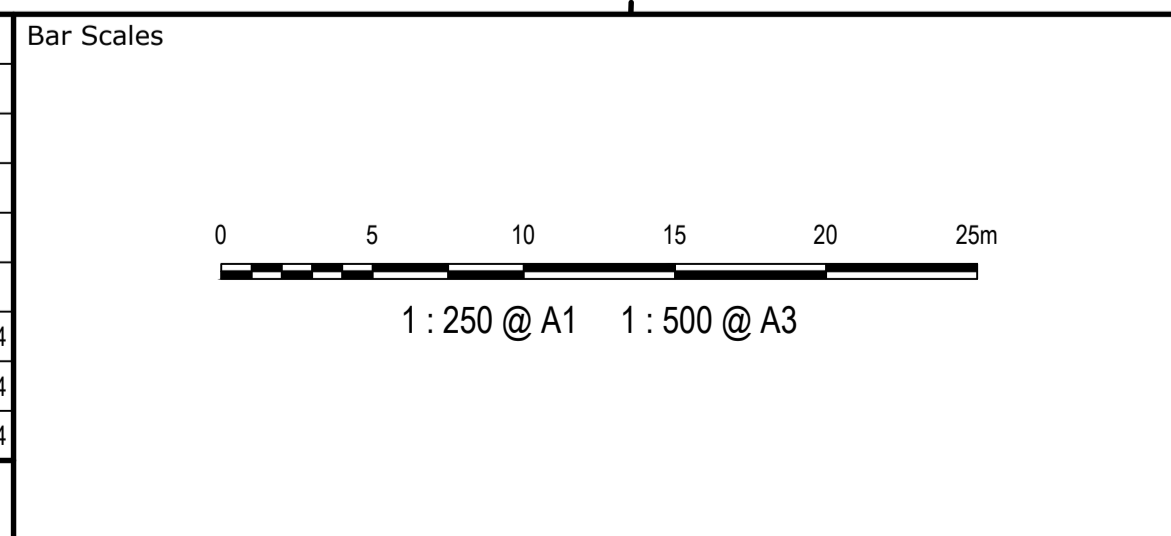
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|-----------------------|---|-------|
| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0070                               | Issue |
|                       |   | B     |



| LEGEND |   |
|--------|---|
|        | SEDIMENT FENCE (SD 6-8)                                   |
|        | CATCH DRAIN   |
|        | BARRIER FENCE   |
|        | HAYBALE AND GEOTEXTILE FILTER (SD 6-7)                    |
|        | MESH AND GRAVEL INLET FILTER (SD 6-11)                    |
|        | GEOTEXTILE INLET (SD 6-12)                                |
|        | STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14) |
|        | PROPOSED SITE ACCESS GATE                                 |
|        | SEDIMENT BASIN TYPE B                                     |

| Issue | Description   | Date       |
|-------|---------------|------------|
| C     | ISSUED FOR DA | 07.06.2024 |
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |



Client



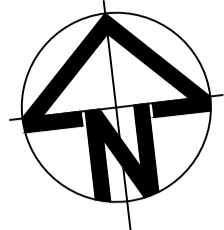
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| Scales   | 1:500   | Drawn    | RM |
|  |         | Designed | SM |
| Grid   | MGA2020 | Checked  | SM |
| Height Datum   | AHD     | Approved | GJ |
|  |         |          |    |
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|         |   |
|---------|---|
| Project | 40 THE RETREAT<br>BRINGELLY<br>NSW 2556         |
| Title   | EROSION AND SEDIMENT<br>CONTROL PLAN<br>STAGE 1 |

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info@at.net.au

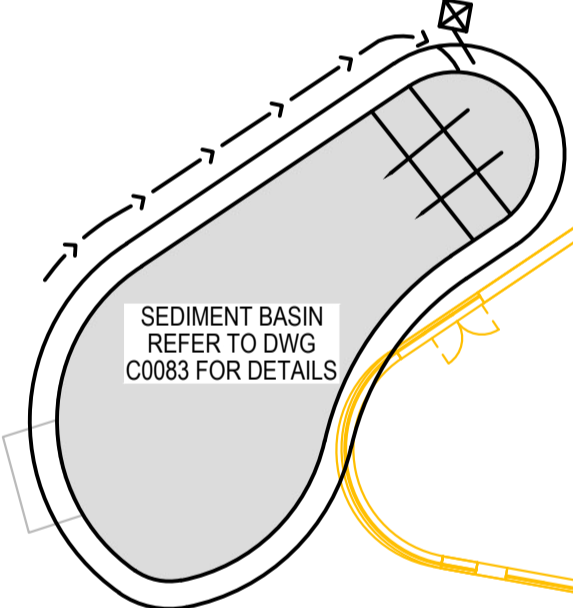
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| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0080                               | Issue |
|                       |   | C     |



| LEGEND |   |
|--------|---|
|        | SEDIMENT FENCE (SD 6-8)                                   |
|        | CATCH DRAIN   |
|        | BARRIER FENCE   |
|        | HAYBALE AND GEOTEXTILE FILTER (SD 6-7)                    |
|        | MESH AND GRAVEL INLET FILTER (SD 6-11)                    |
|        | GEOTEXTILE INLET (SD 6-12)                                |
|        | STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14) |
|        | PROPOSED SITE ACCESS GATE                                 |
|        | SEDIMENT BASIN TYPE B                                     |

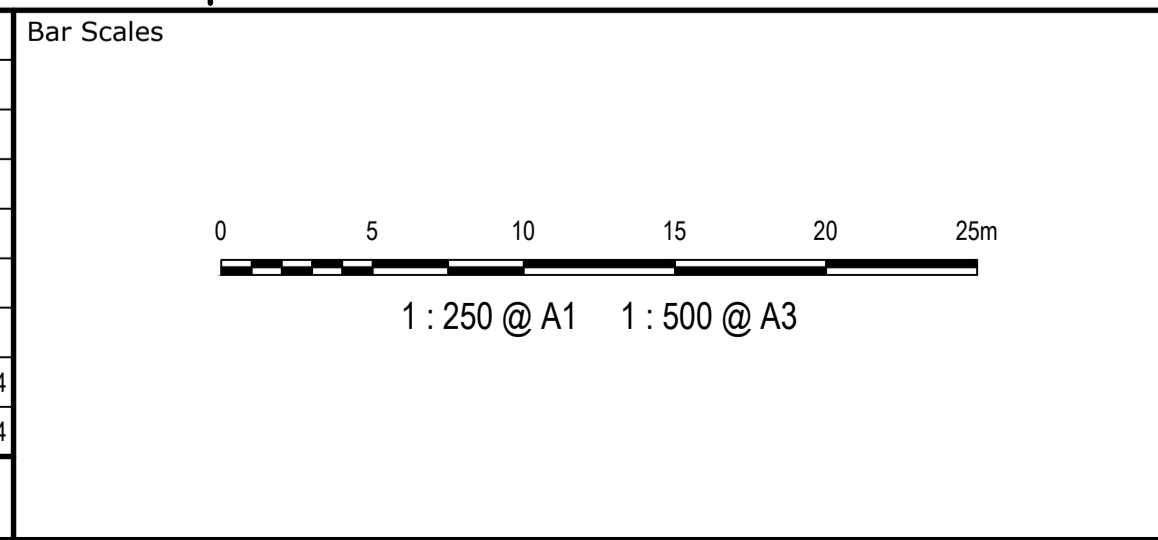
22.5m COLLECTOR ROAD (FUTURE)

16m LOCAL STREET (FUTURE)



THE RETREAT

| Issue | Description   | Date       |
|-------|---------------|------------|
| B     | ISSUED FOR DA | 03.06.2024 |
| A     | ISSUED FOR DA | 05.04.2024 |



Client



|              |         |          |    |
|--------------|---------|----------|----|
| Scales       | 1:250   | Drawn    | RM |
|              |         | Designed | SM |
| Grid         | MGA2020 | Checked  | SM |
| Height Datum | AHD     | Approved | GJ |

**GDA2020**

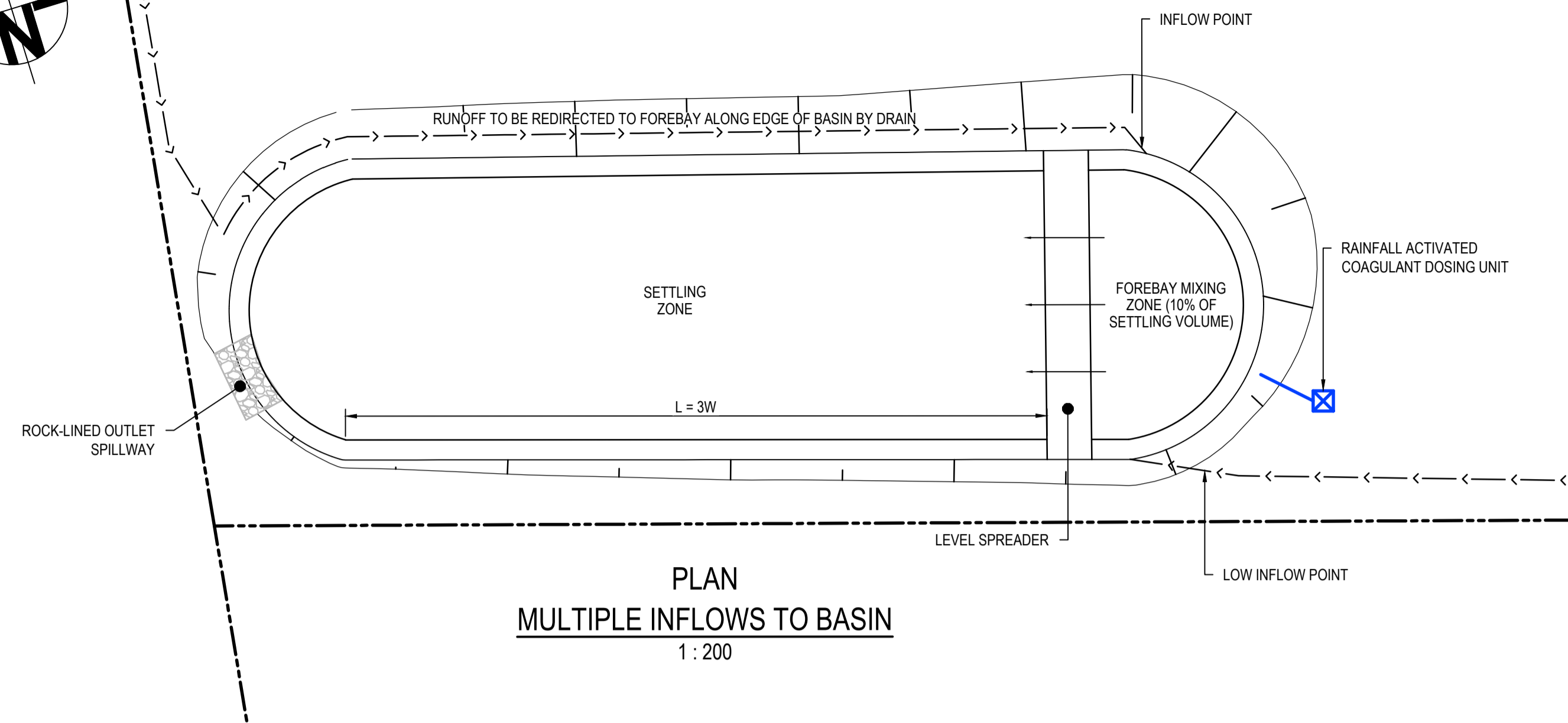
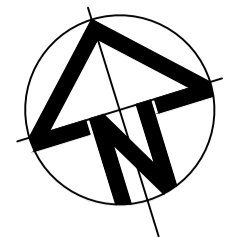
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|---------|---|
| Project | 40 THE RETREAT<br>BRINGELLY<br>NSW 2556         |
| Title   | EROSION AND SEDIMENT<br>CONTROL PLAN<br>STAGE 2 |

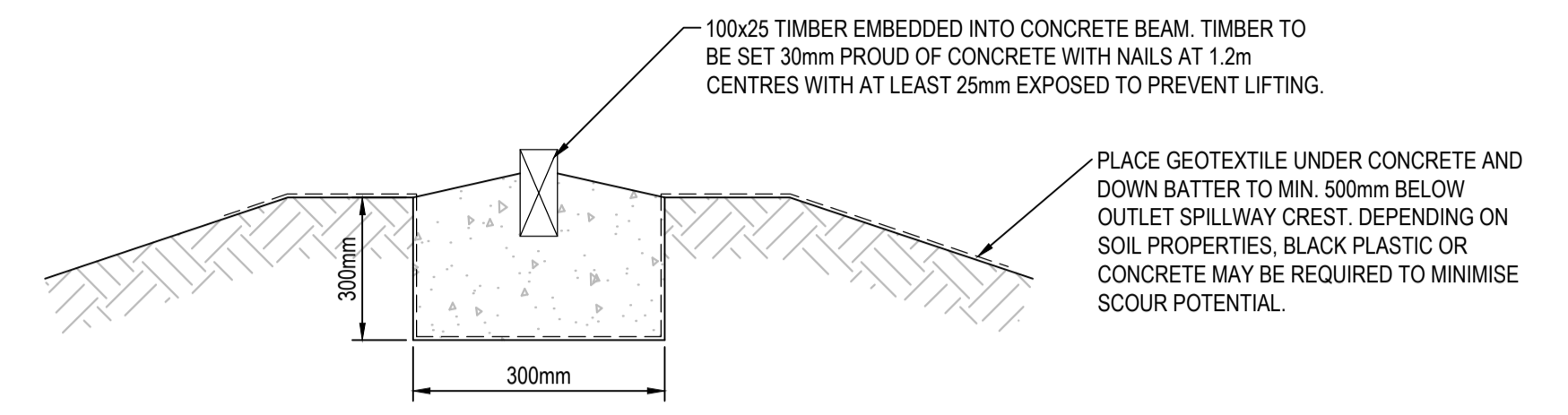
Civil Engineers and Project Managers

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North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

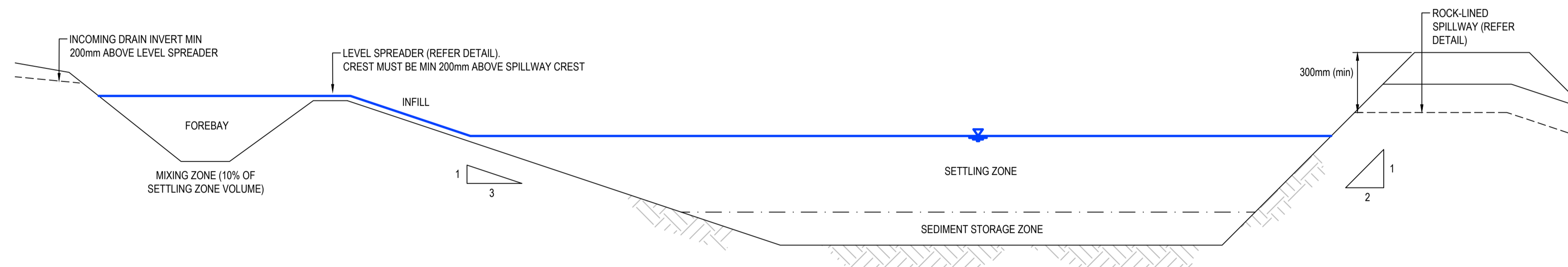
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| Status                | ISSUED FOR APPROVAL<br>NOT FOR CONSTRUCTION | A1    |
| Project - Drawing No. | 23-1110-C0081                               | Issue |
|                       |   | B     |



PLAN  
MULTIPLE INFLOWS TO BASIN  
1 : 200



TYPICAL DETAIL FOR TYPE 'B' BASIN LEVEL SPREADER  
NTS



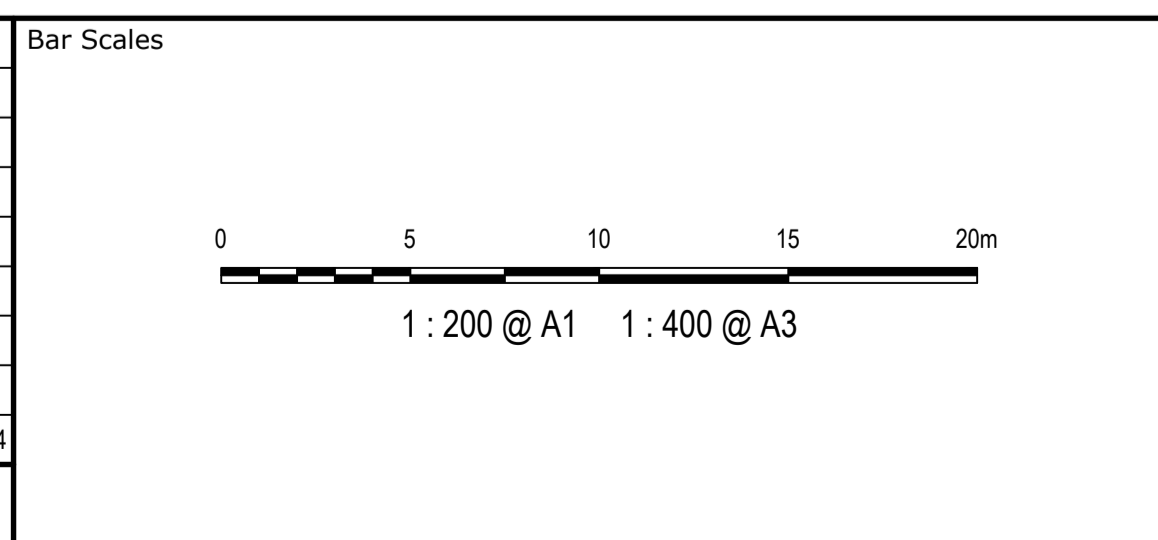
LONG SECTION  
TYPE 'B' BASIN  
NTS



Use this sheet to determine design parameters for Type-B Basins (from IECA Option 2B). Scroll across to input data into yellow shaded cells.

| Basin ID  | Catchment Area (Ha) | Q3mth Design Flowrate Calc. |                |                |                          |                                      |                                       |                     | Settling Zone           |   |                                   |           |                      |                        | Forebay                       |                                   | Sediment Storage Zone           |              | Overall Dimensions relative to spillway crest (excl. Forebay) |            |           | Spillway          |            |      |           |                       |                        |                           |                       |                       |
|-----------|---------------------|-----------------------------|----------------|----------------|--------------------------|--------------------------------------|---------------------------------------|---------------------|-------------------------|---|-----------------------------------|-----------|----------------------|------------------------|-------------------------------|-----------------------------------|---------------------------------|--------------|---|------------|-----------|-------------------|------------|------|-----------|-----------------------|------------------------|---------------------------|-----------------------|-----------------------|
|           |                     | C <sub>10</sub>             | C <sub>1</sub> | t <sub>c</sub> | I <sub>100</sub> (mm/hr) | Q <sub>1yr</sub> (m <sup>3</sup> /s) | Q <sub>3mth</sub> (m <sup>3</sup> /s) | Residence Time (hr) | Settling Zone Depth (m) | Ave. settling zone area (m <sup>2</sup> ) | Settling Volume (m <sup>3</sup> ) | W:L (1:X) | Scour Velocity (m/s) | Forebay Min. Depth (m) | Forebay Vol (m <sup>3</sup> ) | Sed Storage Vol (m <sup>3</sup> ) | Sed Storage depth (approx.) (m) | Batter (1:X) | Width (m)   | Length (m) | Depth (m) | Basin Design Life | Design ARI | C    | I (mm/hr) | Q (m <sup>3</sup> /s) | Head over spillway (m) | Spillway crest length (m) | Spillway Crest RL (m) | Min Embankment RL (m) |
| Example 1 | 3                   | 0.8                         | 0.64           | 20             | 80                       | 0.43                                 | 0.21                                  | 1                   | 0.6                     | 1280                                      | 768                               | 3         | 0.017                | 1                      | 77                            | 230                               | 0.2                             | 3            | 22.5  | 67.4       | 0.8       | 3-12months        | 1:20yr     | 0.84 | 120       | 0.84                  | 0.3                    | 3.0                       | 10                    | 10.75                 |
| 1         | 2.1                 | 0.48                        | 0.38           | 10             | 63.3                     | 0.14                                 | 0.07                                  | 1.33                | 0.6                     | 566                                       | 339                               | 3         | 0.009                | 1                      | 34                            | 102                               | 0.2                             | 3            | 15.5  | 46.6       | 0.8       | 3-12months        | 1:20yr     | 0.50 | 144       | 0.42                  | 0.3                    | 1.5                       | 63.5                  | 64.25                 |

| Issue | Description   | Date       |
|-------|---------------|------------|
| A     | ISSUED FOR DA | 05.04.2024 |



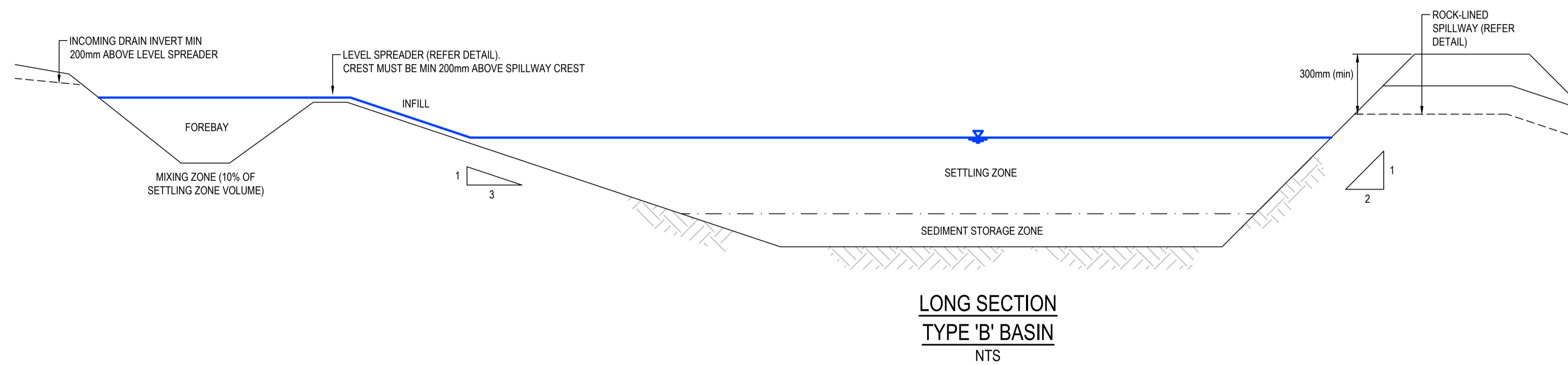
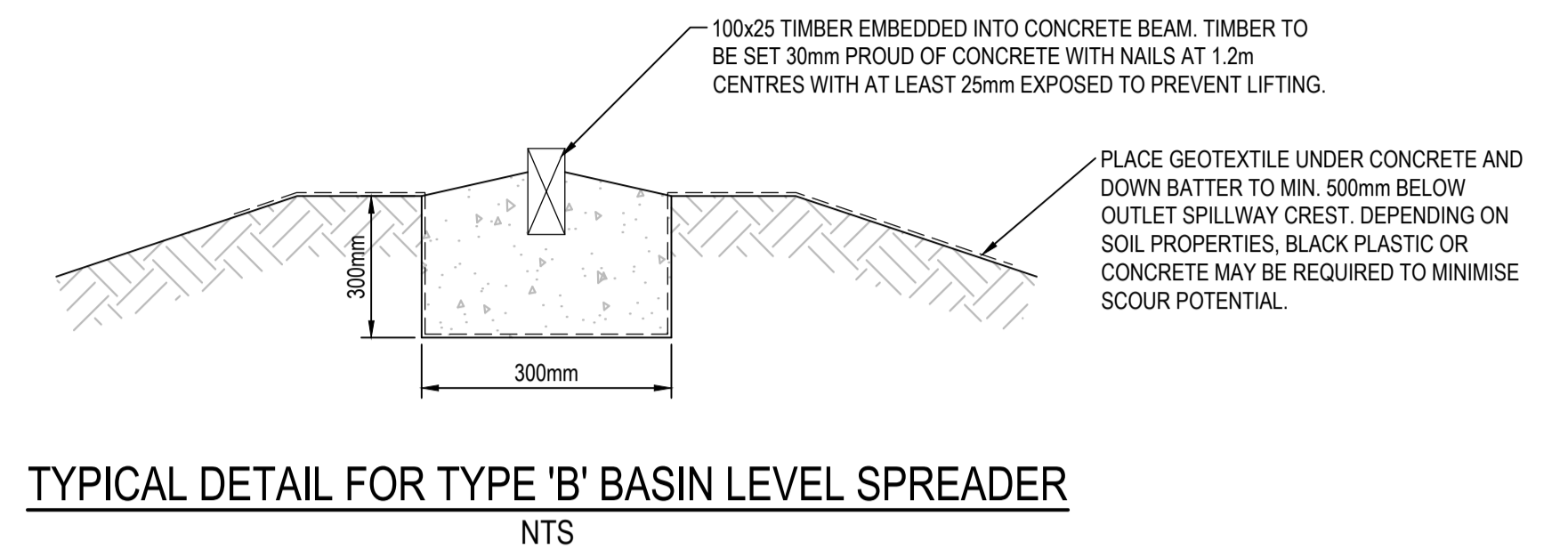
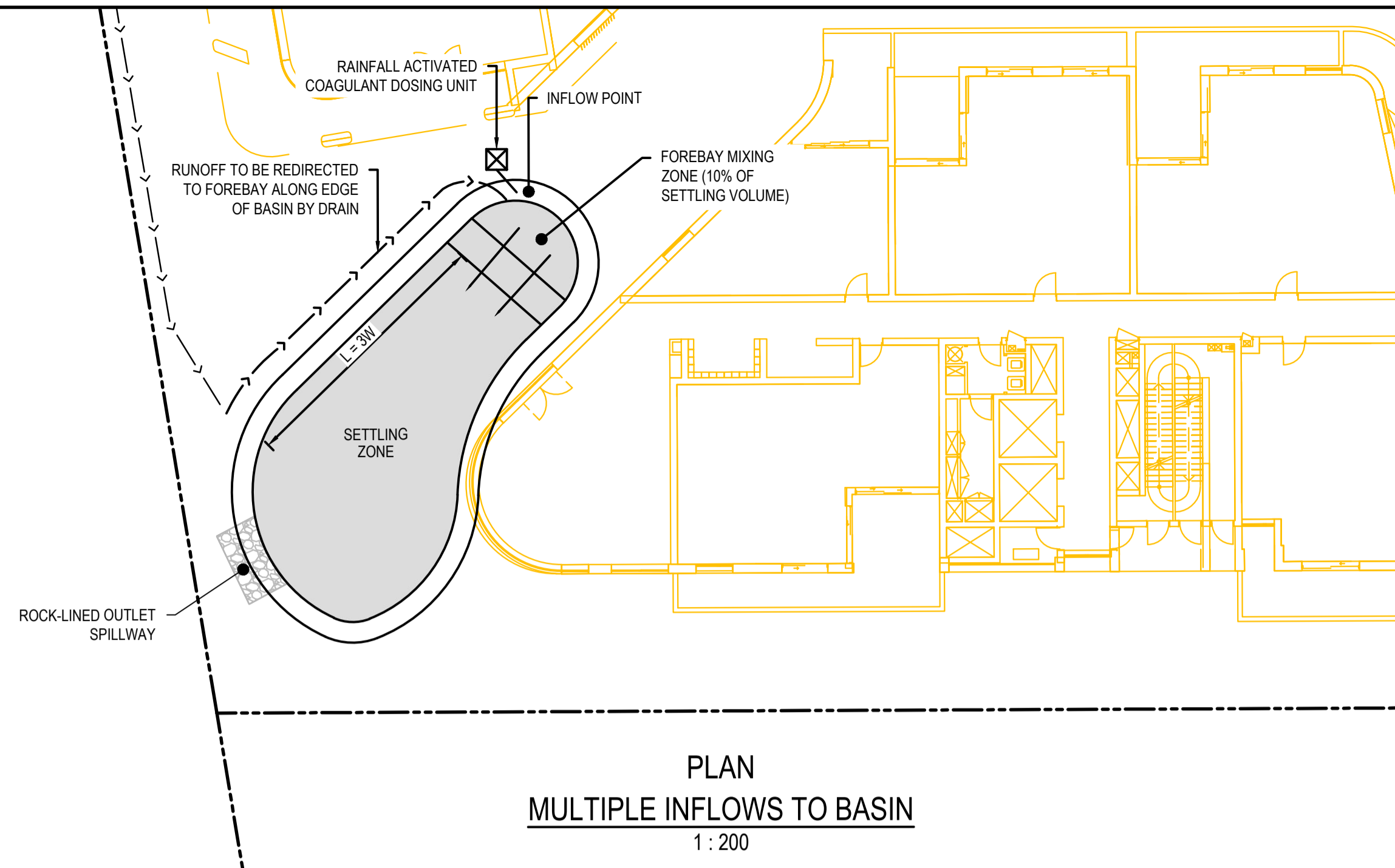
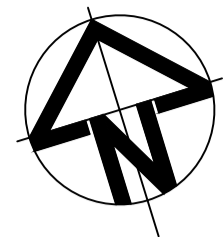
|        |              |
|--------|--------------|
| Client | SATHIO GROUP |
|--------|--------------|

|              |          |          |    |
|--------------|----------|----------|----|
| Scales       | AS SHOWN | Drawn    | RM |
|              |          | Designed | SM |
| Grid         | MGA2020  | Checked  | SM |
| Height Datum | AHD      | Approved | GJ |
|              | GDA2020  |          |    |

|         |   |
|---------|---|
| Project | 40 THE RETREAT BRINGELLY NSW 2556               |
| Title   | SEDIMENT BASIN TYPICAL ARRANGEMENT PLAN STAGE 1 |

|  |  |
|--|--|
| Civil Engineers and Project Managers   |  |
|  |  |
| Level 7, 153 Walker Street<br>North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.atl.net.au<br>info@atl.net.au |  |
| Status   | ISSUED FOR APPROVAL NOT FOR CONSTRUCTION |
| Project - Drawing No.  | 23-1110-C0082                            |
| Issue  | A1                                       |

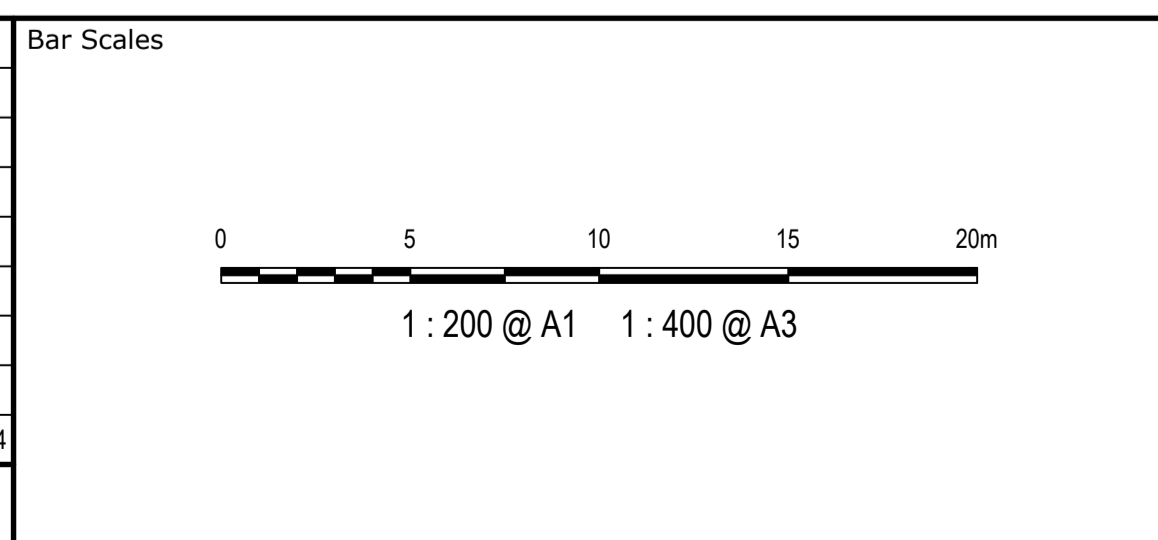
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Use this sheet to determine design parameters for Type-B Basins (from IECA Option 2B). Scroll across to input data into yellow shaded cells.

| Basin ID  | Catchment Area (Ha) | Q3mth Design Flowrate Calc. |                |                |                            |                                      |                                       | Settling Zone       |                         |   |                                   |           |                      | Forebay                |                               | Sediment Storage Zone             |                                 | Overall Dimensions relative to spillway crest (excl. Forebay) |           |            | Spillway  |                   |            |      |           |                                    |                        |                           |                       |                       |
|-----------|---------------------|-----------------------------|----------------|----------------|----------------------------|--------------------------------------|---------------------------------------|---------------------|-------------------------|---|-----------------------------------|-----------|----------------------|------------------------|-------------------------------|-----------------------------------|---------------------------------|---|-----------|------------|-----------|-------------------|------------|------|-----------|------------------------------------|------------------------|---------------------------|-----------------------|-----------------------|
|           |                     | C <sub>10</sub>             | C <sub>2</sub> | t <sub>c</sub> | i <sub>sp,10</sub> (mm/hr) | Q <sub>1yr</sub> (m <sup>3</sup> /s) | Q <sub>3mth</sub> (m <sup>3</sup> /s) | Residence Time (hr) | Settling Zone Depth (m) | Ave. settling zone area (m <sup>2</sup> ) | Settling Volume (m <sup>3</sup> ) | W:L (1:X) | Scour Velocity (m/s) | Forebay Min. Depth (m) | Forebay Vol (m <sup>3</sup> ) | Sed Storage Vol (m <sup>3</sup> ) | Sed Storage depth (approx.) (m) | Batter (1:X)  | Width (m) | Length (m) | Depth (m) | Basin Design Life | Design ARI | C    | i (mm/hr) | Q <sub>i</sub> (m <sup>3</sup> /s) | Head over spillway (m) | Spillway crest length (m) | Spillway Crest RL (m) | Min Embankment RL (m) |
| Example 1 | 3                   | 0.8                         | 0.64           | 20             | 80                         | 0.43                                 | 0.21                                  | 1                   | 0.6                     | 1280                                      | 768                               | 3         | 0.017                | 1                      | 77                            | 230                               | 0.2                             | 3   | 22.5      | 67.4       | 0.8       | 3-12months        | 1:20yr     | 0.84 | 120       | 0.84                               | 0.3                    | 3.0                       | 10                    | 10.75                 |
| 1         | 1.04                | 0.48                        | 0.38           | 10             | 63.3                       | 0.07                                 | 0.04                                  | 1.33                | 0.6                     | 280                                       | 168                               | 3         | 0.006                | 1                      | 17                            | 50                                | 0.2                             | 3   | 11.5      | 34.4       | 0.8       | 3-12months        | 1:20yr     | 0.50 | 144       | 0.21                               | 0.3                    | 0.8                       | 63.5                  | 64.25                 |

| Issue | Description   | Date       |
|-------|---------------|------------|
| A     | ISSUED FOR DA | 05.04.2024 |

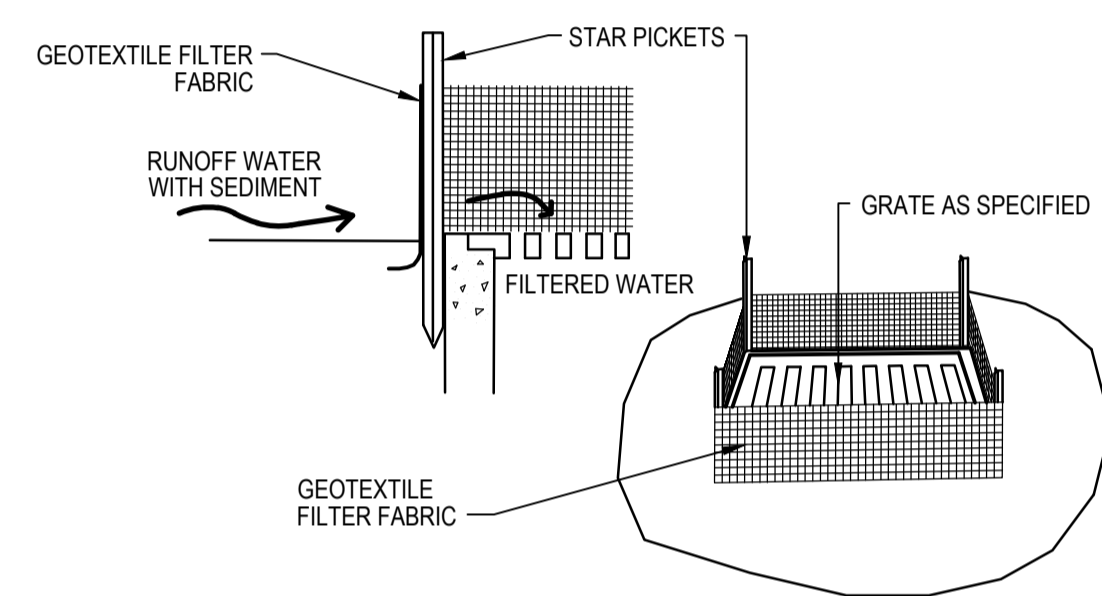


|        |              |
|--------|--------------|
| Client | SATHIO GROUP |
|--------|--------------|

|  |          |          |    |
|--|----------|----------|----|
| Scales   | AS SHOWN | Drawn    | RM |
|  |          | Designed | SM |
| Grid   | MGA2020  | Checked  | SM |
| Height Datum   | AHD      | Approved | GJ |
|  |          |          |    |
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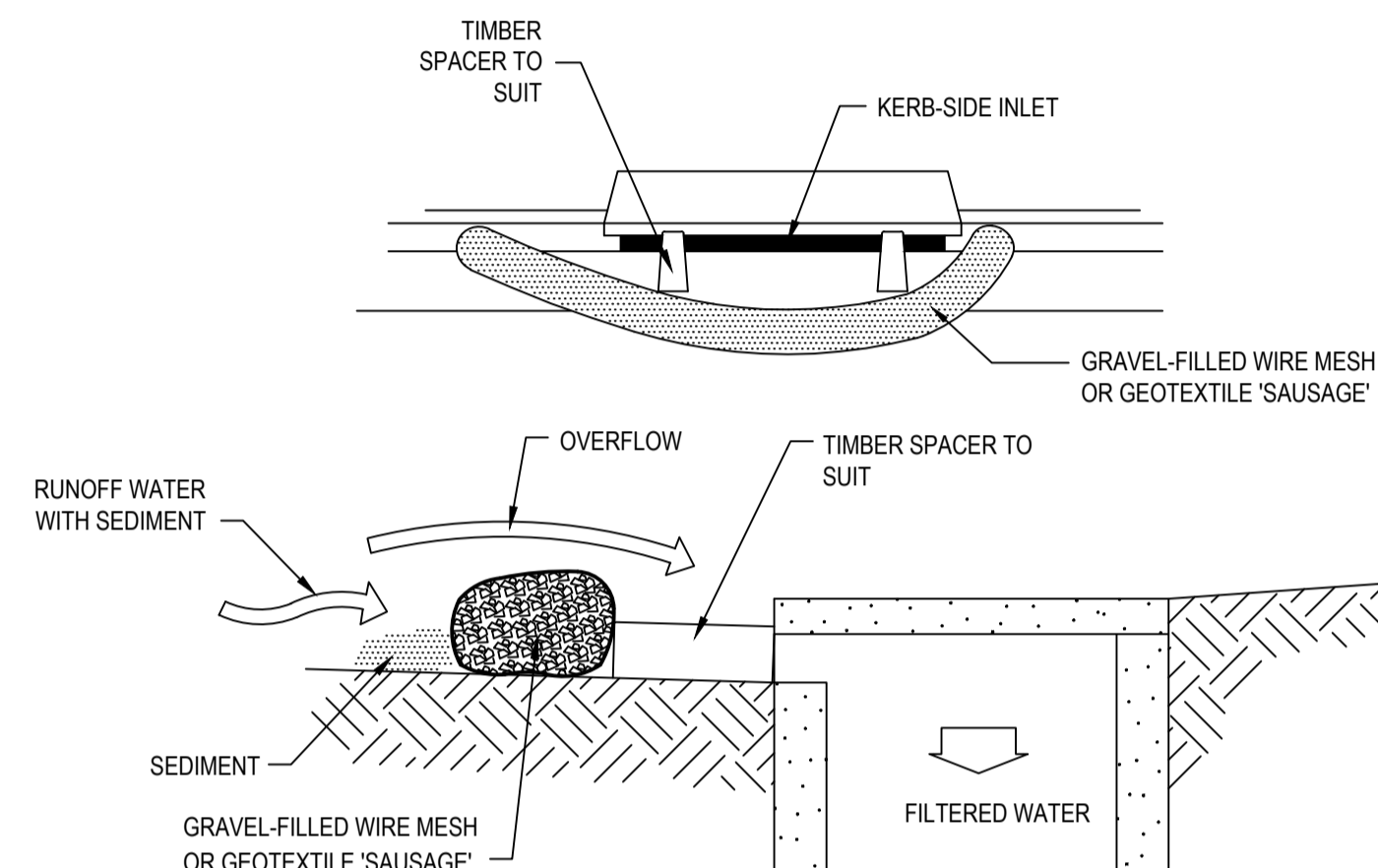
|         |   |
|---------|---|
| Project | 40 THE RETREAT BRINGELLY NSW 2556               |
| Title   | SEDIMENT BASIN TYPICAL ARRANGEMENT PLAN STAGE 2 |

|   |  |
|---|--|
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|   |  |
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| Status  | ISSUED FOR APPROVAL NOT FOR CONSTRUCTION |
| Project - Drawing No.   | 23-1110-C0083                            |
| Issue   | A  |



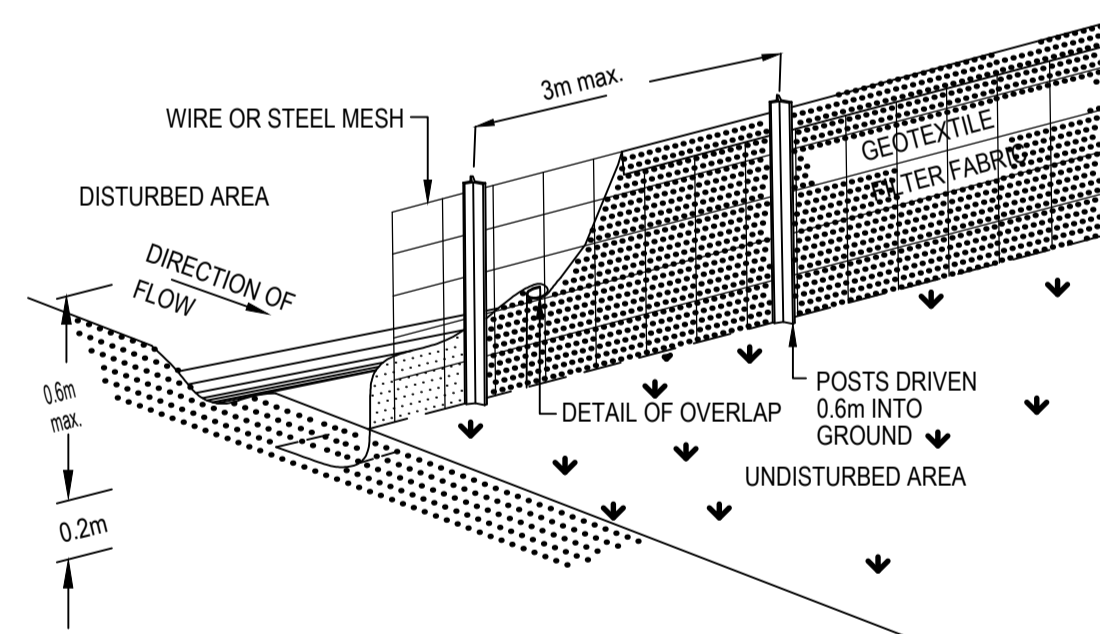
**GEOTEXTILE FILTER PIT SURROUND**

NTS



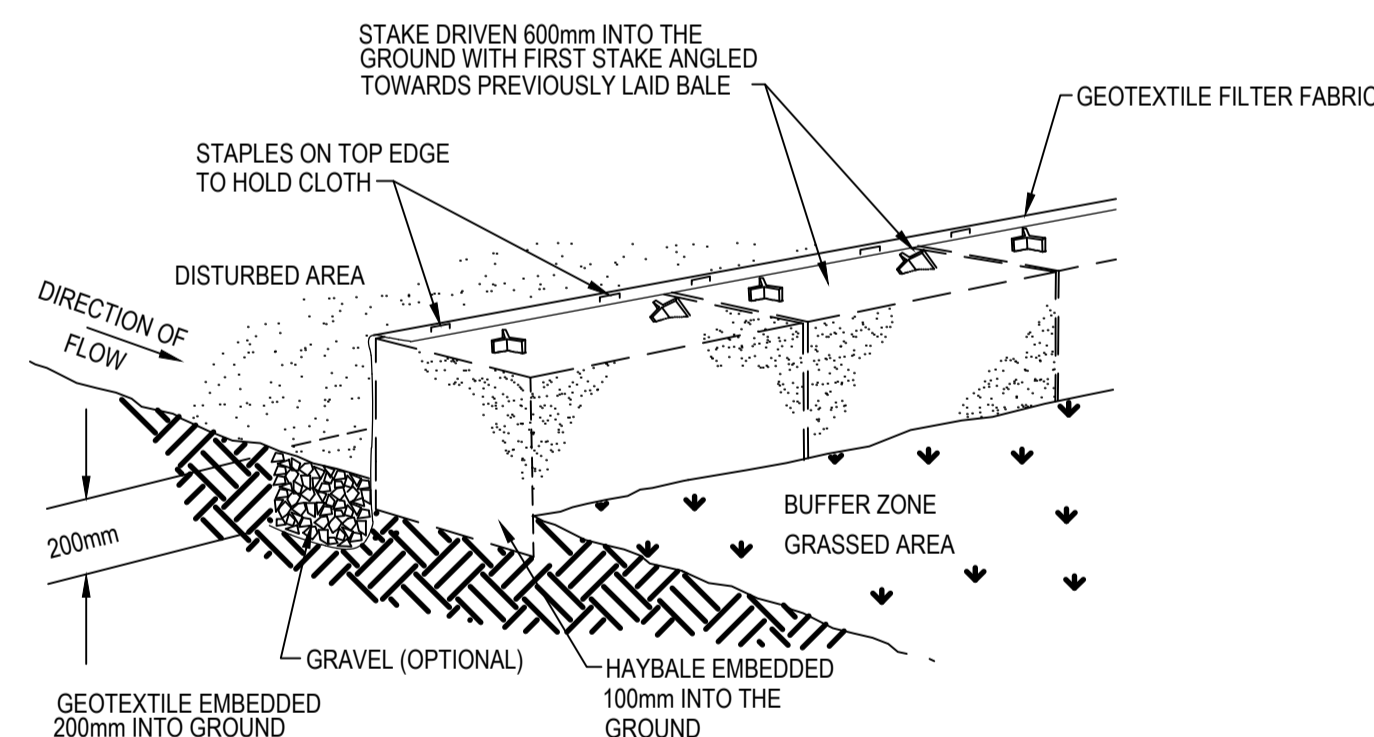
**MESH AND GRAVEL INLET FILTER**

NTS



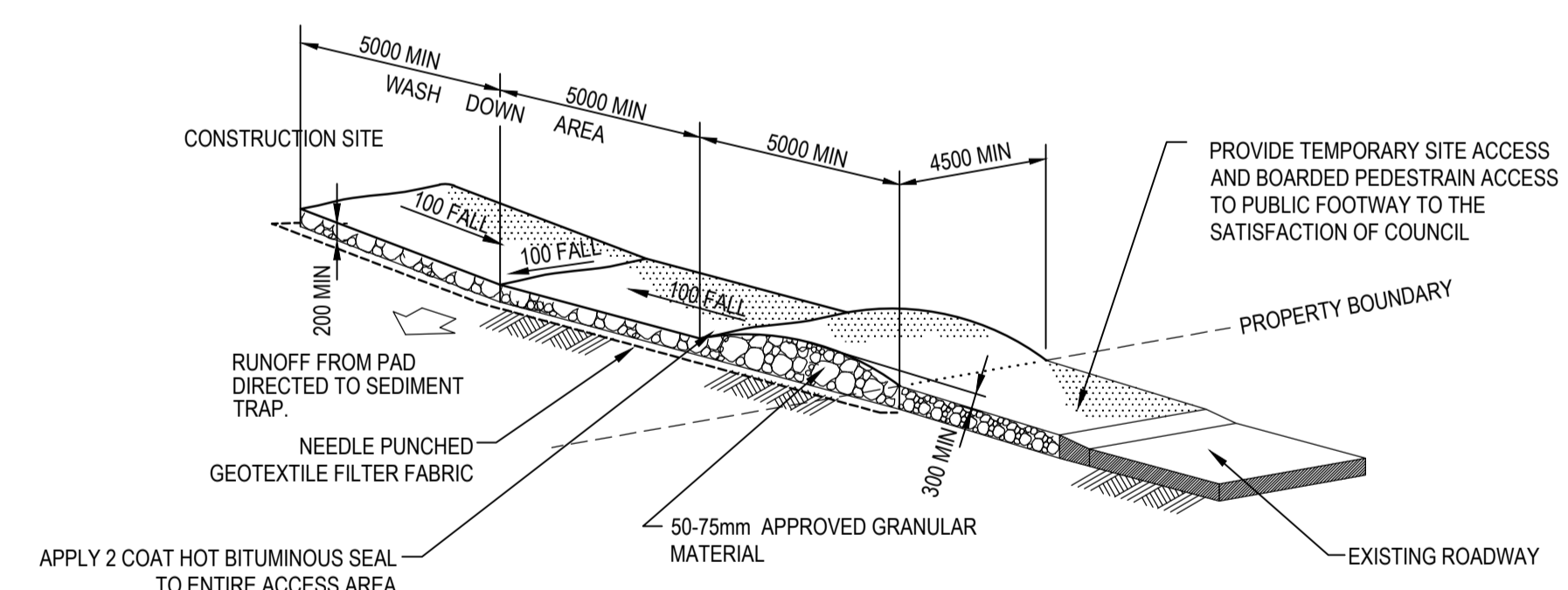
**SEDIMENT FENCE**

NTS



**HAYBALE AND GEOTEXTILE SEDIMENT FILTER**

NTS



**STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA**

NTS

|            |                          |
|------------|--------------------------|
| Bar Scales |                          |
| A          | ISSUED FOR DA 05.04.2024 |
| Issue      | Description Date         |

|        |  |
|--------|--|
| Client |  |
|--------|--|



|              |         |          |    |
|--------------|---------|----------|----|
| Scales       | NTS     | Drawn    | RM |
|              |         | Designed | SM |
| Grid         | MGA2020 | Checked  | SM |
| Height Datum | AHD     | Approved | GJ |

|         |                                      |
|---------|--------------------------------------|
| Project | 40 THE RETREAT BRINGELLY NSW 2556    |
| Title   | EROSION AND SEDIMENT CONTROL DETAILS |

|                                      |   |
|--------------------------------------|---|
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| at&l                                 | Level 7, 153 Walker Street North Sydney NSW 2060<br>ABN 96 130 882 405<br>Tel: 02 9439 1777<br>Fax: 02 9923 1055<br>www.atl.net.au<br>info@atl.net.au |
| Status                               | ISSUED FOR APPROVAL NOT FOR CONSTRUCTION  |
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| Issue                                | A   |

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