

# RESIDENTIAL DUAL OCCUPANCY

## 22 WILLIAM STREET, SOUTH HURSTVILLE NSW

# STORMWATER DRAINAGE PLAN

# CONSTRUCTION CERTIFICATE

### AUTHORITY STORMWATER NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVEL PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.
2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTRELINE OF FENCE/BOLARD/PIPE.
3. SMOOTH ALL TRANSITION BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION AND COMPACTIONS AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY MINIMUM THREE TESTS PER LAYER AS FOLLOWS

PIPE BACKFILL

DENSITY INDEX 75

SELECT FILL

95% STANDARD

SELECT FILL (LESS THAN 300mm

FOLLOW BASE COURSE)

98% MODIFIED

BASE COURSE

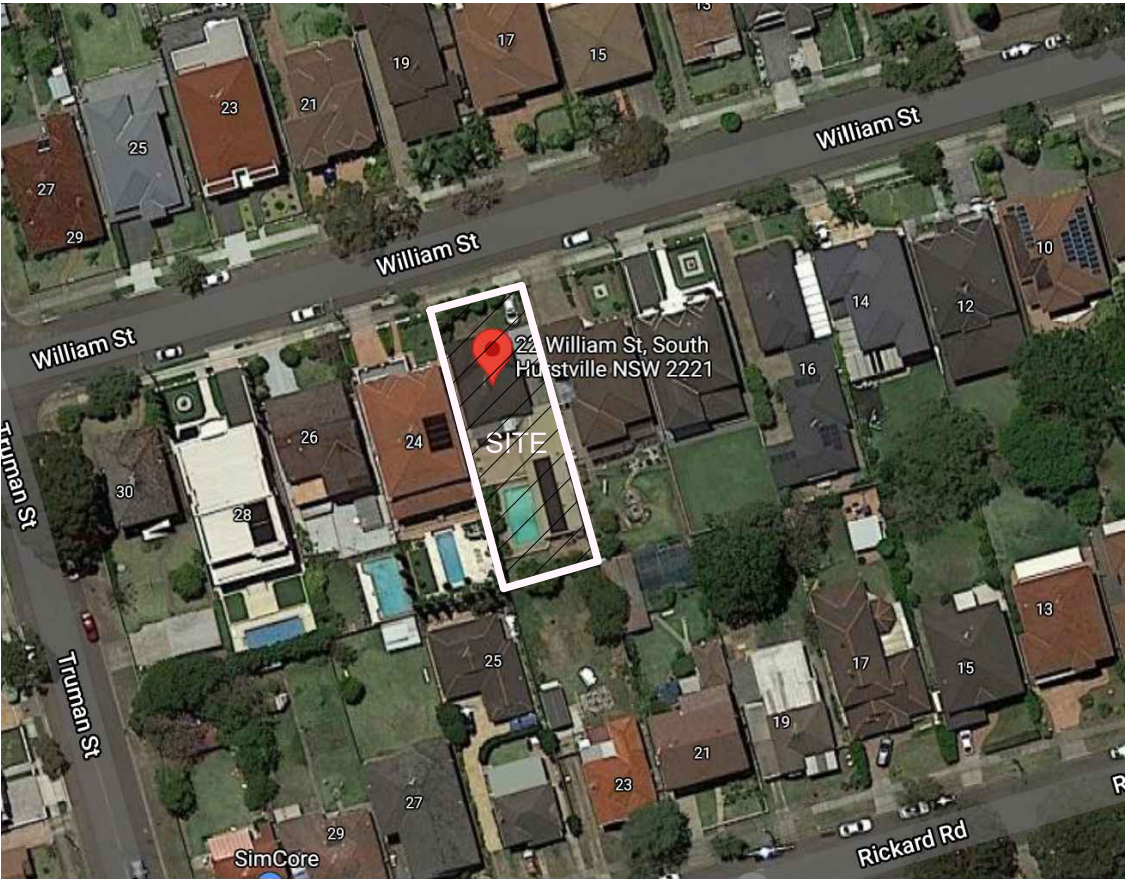
100% MODIFIED
7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

### DRAINAGE NOTES:

- ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED.
- 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE.
- MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm
- ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS.
- BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL.
- ALL PITS TO HAVE 600 x 600mm INTERNAL DIMENSIONS (U.N.O).
- SILT ARRESTORS TO HAVE 900 x 900mm INTERNAL DIMENSIONS.
- HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS.
- PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT.
- ALL PITS SHALL BE PROVIDED WITH A LOCKING LIP.
- ALL PITS SHALL BE MAINTAINED REGULARLY.
- TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER.
- MAXIMUM FRONT ENTRY PIPE:-

STRAIGHT ENTRY -  $\phi$ 750

SKEW ENTRY -  $\phi$ 525
- $\phi$ 100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES.
- COMPRESSIVE STRENGTH  $f'c$  FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 32 MPa AT 28 DAYS.
- PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.
- ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS.
- ALL TRENCH GRATES PROVIDED SHALL HAVE MINIMUM CLEAR WIDTH OF 200mm.
- STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.



LOCALITY PLAN (COURTESY OF GOOGLE MAPS)


| DRAWING REGISTER |   |      |
|------------------|---|------|
| NO.              | TITLE   | REV. |
| SW.01            | COVER SHEET                                     | C    |
| SW.02            | STORMWATER DRAINAGE CONCEPT PLAN - GROUND FLOOR | C    |
| SW.03            | OSD TANK 'A' PLAN                               | B    |
| SW.04            | OSD TANK 'B' PLAN                               | B    |
| SW.05            | STORMWATER DETAILS SHEET 1                      | C    |
| SW.06            | STORMWATER DETAILS SHEET 2                      | C    |
| SW.07            | HYDRAULIC GRADE LINE ANALYSIS                   | C    |
| SW.08            | EROSION & SEDIMENT CONTROL PLAN                 | A    |
| SW.09            | EROSION & SEDIMENT CONTROL DETAILS              | A    |

|       |                          |          |          |
|-------|--------------------------|----------|----------|
| C     | CONSTRUCTION CERTIFICATE | SL       | 20.10.21 |
| B     | OSD TANK REVISED         | SL       | 28.09.21 |
| A     | FOR DA APPROVAL          | SL       | 13.07.21 |
| ISSUE | DESCRIPTION              | APPROVED | DATE     |

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PROJECT

22 WILLIAM STREET  
SOUTH HURSTVILLE NSW

TITLE

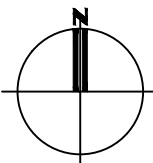
COVER SHEET

SCALESas noted @ A3DATEJUL.2021

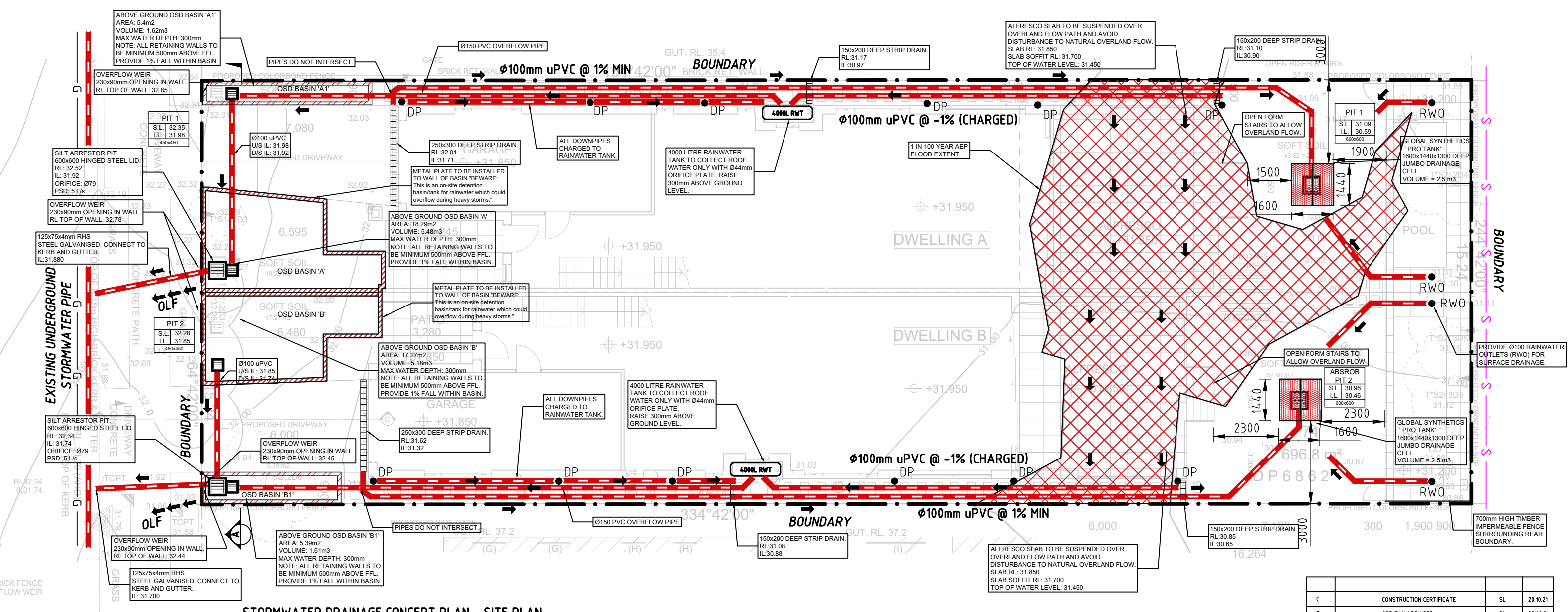
DRAWN SLDESIGN SLAPPROVED SL

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ISSUECPROJECT No.1240DRAWING No.SW.01







STORMWATER DRAINAGE CONCEPT PLAN - SITE PLAN

SCALE 1:75

THE SITE IS LOCATED IN THE GEORGES RIVER COUNCIL.  
SITE AREA = 696.8m<sup>2</sup>  
IMPERVIOUS AREA = 531.9m<sup>2</sup> (76.33%)  
PSD =  $\frac{696.8}{10000} \times 152 = 10.59 \text{ L/s}$   
SSR =  $\frac{696.8}{10000} \times 270 = 18.81\text{m}^3$

NOTE:  
SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.  
  
ALL EXISTING DRAINAGE IS TO BE INSPECTED BY A REGISTERED PLUMBER AND CERTIFY THAT IT IS IN GOOD WORKING CONDITION. OTHERWISE, ALLOW TO RECTIFY AND/OR REPLACE AS NECESSARY.

OSD DESIGN PARAMETERS:

- 1. THE PRE/POST-DEVELOPMENT IMPERVIOUS AREA WAS MEASURED THROUGH AUTOCAD.
  - 2. THE RAINFALL DATA WAS CALCULATED AND OBTAINED BY THE BUREAU OF METEOROLOGY, AUSTRALIA FOR THE RESPECTIVE LOCATION OF THE SITE.
- LATITUDE: -33.97632  
- LONGITUDE: 151.10099

DRAINS MODELLING PARAMETERS:

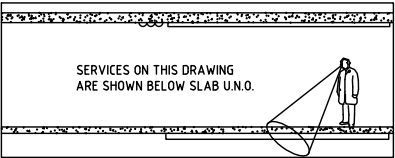
THE STORAGE CAPACITY AND PERMISSIBLE SITE DISCHARGE OF THE OSD WAS CALCULATED THROUGH A DRAINS MODEL WITH REGARDS TO GEORGES COUNCIL COUNCIL'S DCP REQUIREMENTS.

HYDRAULIC CONDUCTIVITY = 7.7e-8 m/s

TIME OF CONCENTRATION (PAVED) = 5min(s)  
TIME OF CONCENTRATION (GRASSED) = 10min(s)

LEGEND

- S — S — AUTHORITY SEWER LINE
- X — X — X — X — AUTHORITY ELECTRICAL LINE
- T — T — T — T — TELSTRA LINE
- □ — □ — □ — □ — NBN LINE
- W — W — AUTHORITY WATER LINE
- G — G — AUTHORITY GAS LINE
- - - SSD - - - SSD - SUBSOIL DRAINAGE LINE
- — — — — STORMWATER LINE
- e — e — EXISTING STORMWATER LINE
- ▢ GRATED SURFACE INLET PIT
- ▣ TELEPHONE PIT
- DP DOWNPIPE
- CO CLEAR OUT



|       |                          |          |          |
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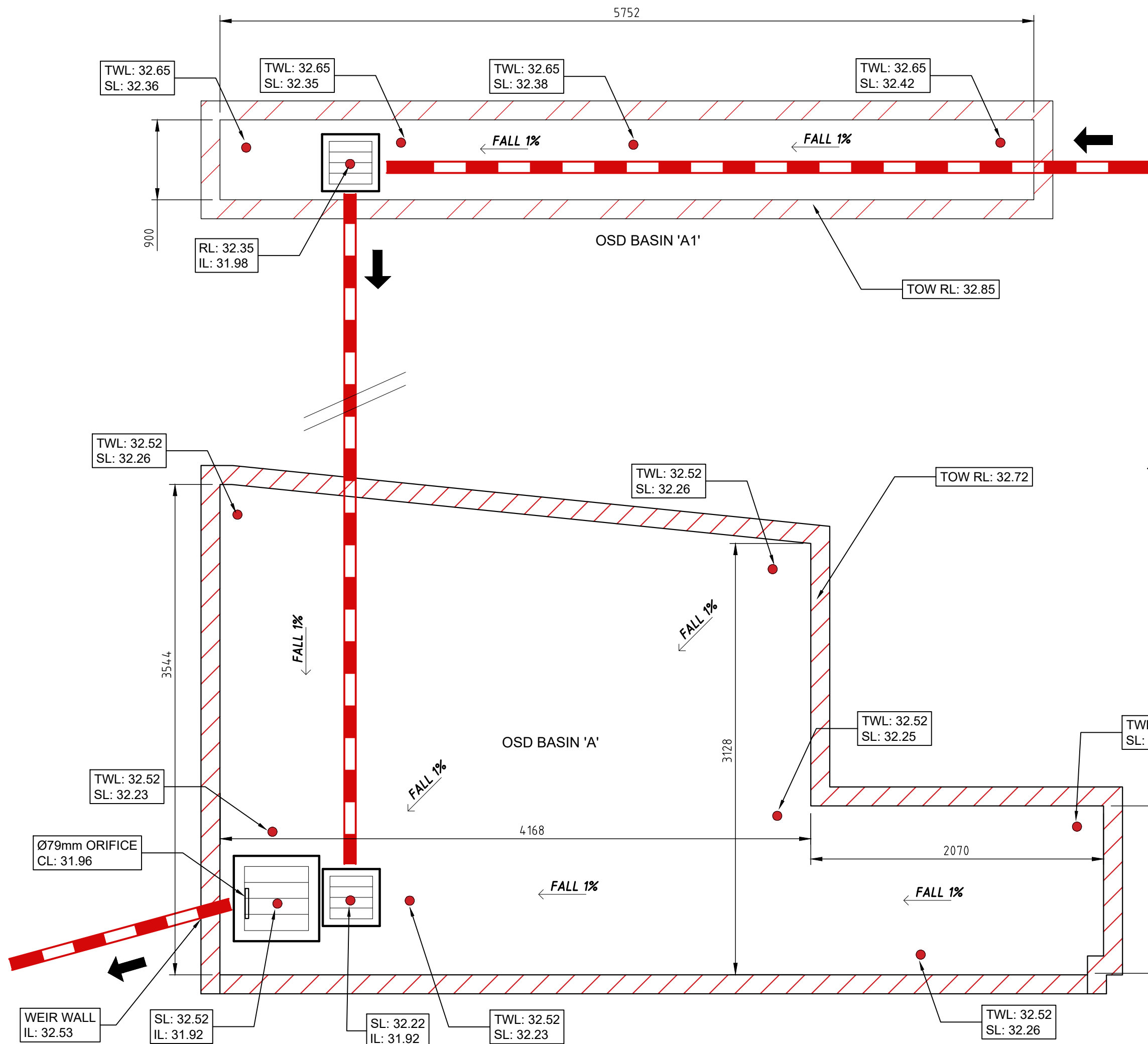
PROJECT

**22 WILLIAM STREET  
SOUTH HURSTVILLE NSW**

TITLE

**STORMWATER DRAINAGE  
CONCEPT PLAN - GROUND FLOOR**

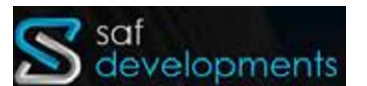
|  |               |             |           |
|--|---------------|-------------|-----------|
| SCALES   | as noted @ A3 | DATE        | JUL. 2021 |
| DRAWN  | SL            | DESIGN      | SL        |
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|  |               | DRAWING No. | SW.02     |



**ABOVE GROUND ON-SITE DETENTION TANK 'A' & 'A1'**  
SCALE 1:25

|       |                          |          |          |
|-------|--------------------------|----------|----------|
|       |                          |          |          |
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PROJECT

22 WILLIAM STREET  
SOUTH HURSTVILLE NSW

TITLE

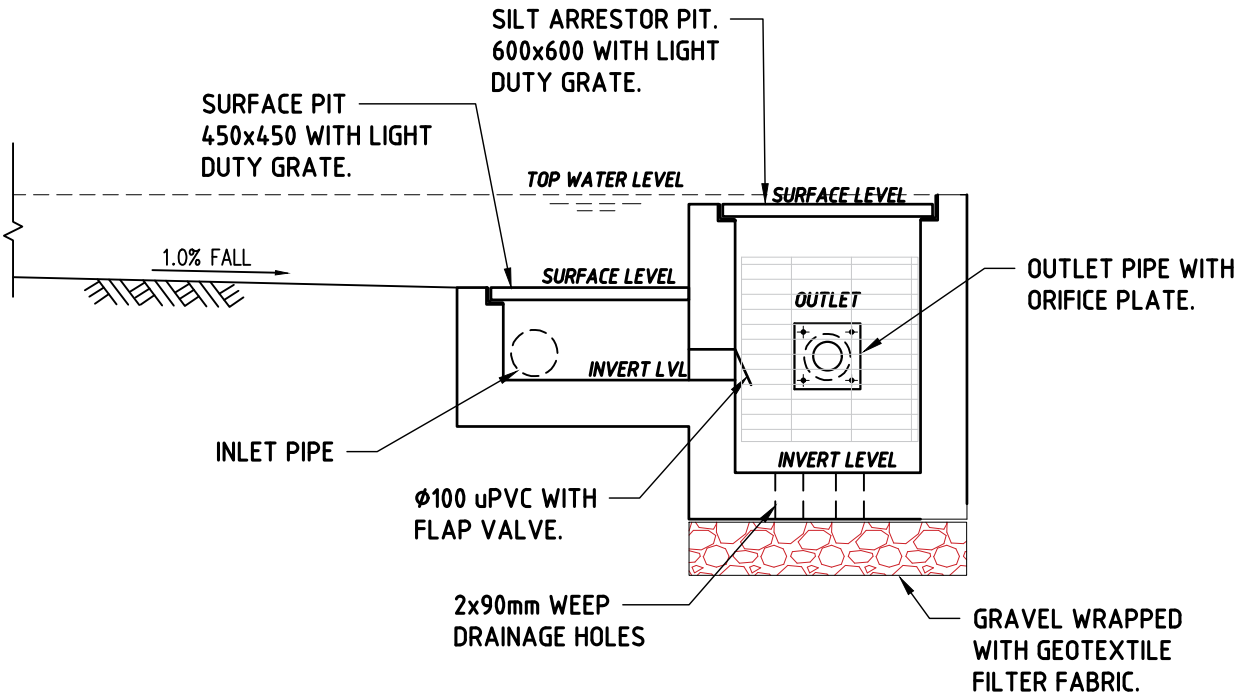
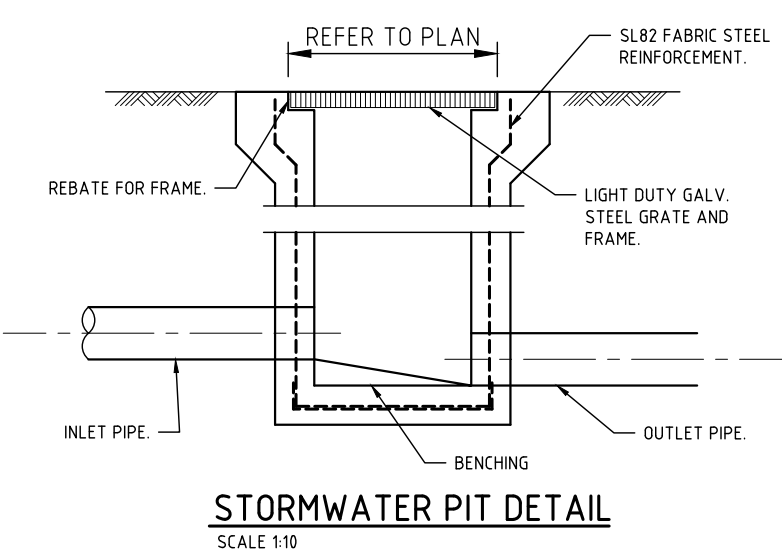
OSD TANK 'A' PLAN

|   |                            |                             |           |
|---|----------------------------|-----------------------------|-----------|
| SCALES  | as noted @ A3              | DATE                        | JUL. 2021 |
| DRAWN<br>SL   | DESIGN<br>SL               | APPROVED<br>SL              |           |
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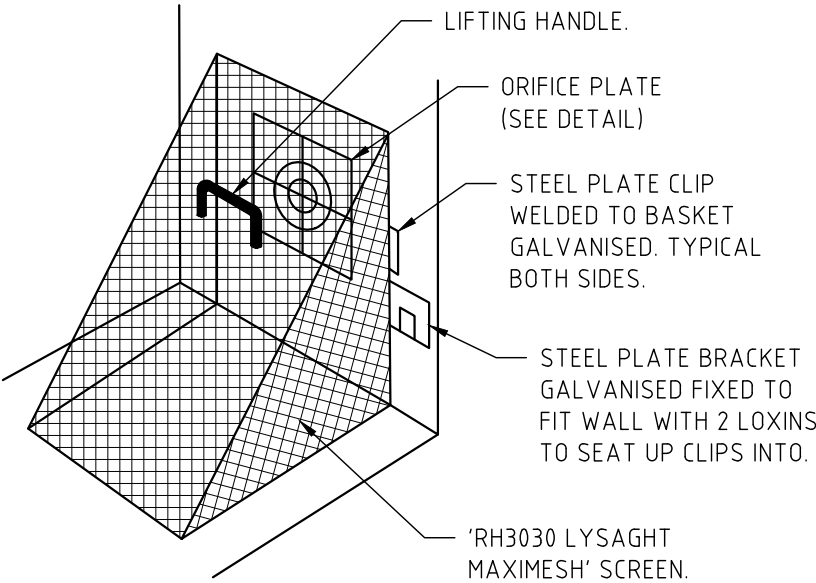


POST-DEVELOPMENT OSD BASIN REQUIREMENTS.

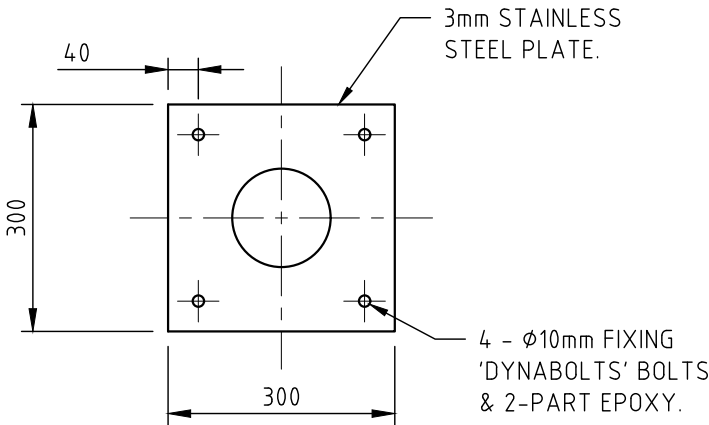
| LOT AREA (m <sup>2</sup> ) | STORM (YR) | POST-DEV. FLOW (m <sup>3</sup> /s) | PIPE OUTFLOW (m <sup>3</sup> /s) | WEIR OUTFLOW (m <sup>3</sup> /s) | MAX PONDING DEPTH (m) | TOTAL PSD (m <sup>3</sup> /s) | OSD VOLUME (m <sup>3</sup> ) |
|----------------------------|------------|------------------------------------|----------------------------------|----------------------------------|-----------------------|-------------------------------|------------------------------|
| 696.8                      | 5          | 0.017                              | 0.008                            | 0.000                            | 0.180                 | 0.008                         | 21.89m <sup>3</sup> OSD      |
|                            | 10         | 0.020                              | 0.009                            | 0.000                            | 0.210                 | 0.009                         |                              |
|                            | 20         | 0.023                              | 0.010                            | 0.000                            | 0.280                 | 0.010                         |                              |
|                            | 50         | 0.027                              | 0.010                            | 0.000                            | 0.320                 | 0.010                         |                              |
|                            | 100        | 0.029                              | 0.011                            | 0.000                            | 0.370                 | 0.011                         |                              |
|                            |            |                                    |                                  |                                  |                       |                               |                              |



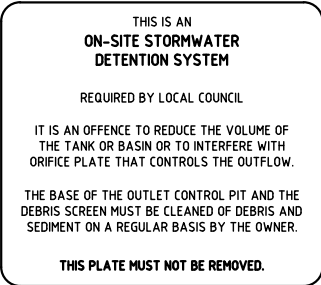
ABOVE GROUND DETENTION BASIN SECTION THROUGH.  
SCALE 1:20



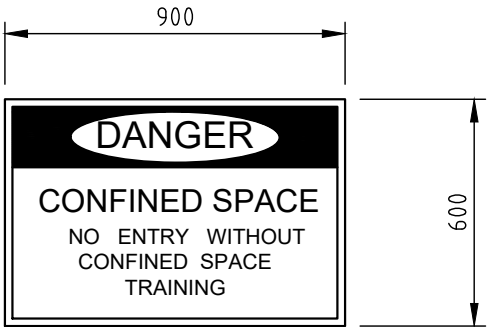
DEBRIS SCREEN DETAIL  
NOT TO SCALE



ORIFICE PLATE DETAIL  
SCALE 1:10



OSD SIGN DETAIL  
NOT TO SCALE



CONFINED SPACE SIGN DETAIL

| ISSUE | DESCRIPTION              | APPROVED | DATE     |
|-------|--------------------------|----------|----------|
| C     | CONSTRUCTION CERTIFICATE | SL       | 20.10.21 |
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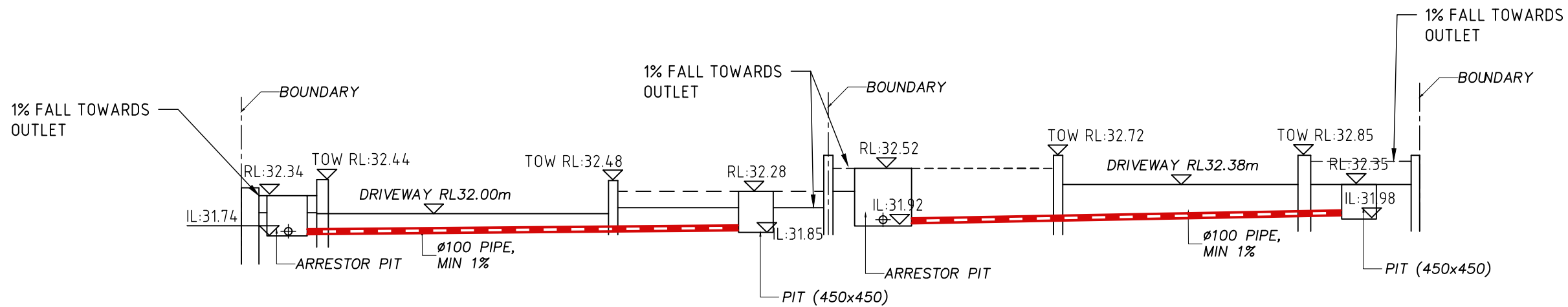
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PROJECT  
**22 WILLIAM STREET  
SOUTH HURSTVILLE NSW**

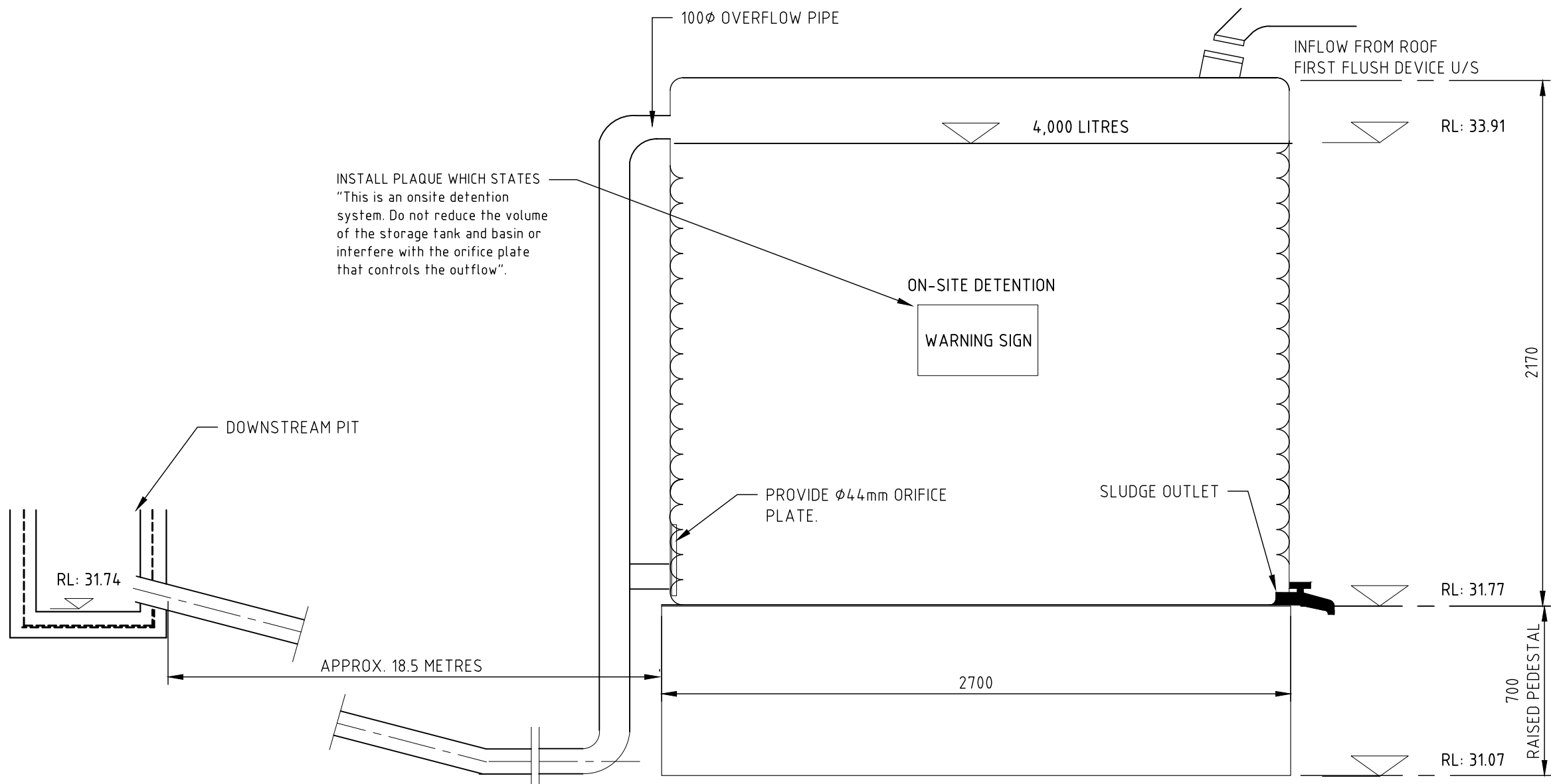
TITLE  
**STORMWATER DETAILS  
SHEET 1**

|  |               |             |          |
|--|---------------|-------------|----------|
| SCALES   | as noted @ A3 | DATE        | JUL.2021 |
| DRAWN  | SL            | DESIGN      | SL       |
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|  |               | DRAWING No. | SW.05    |





SECTION A  
SCALE 1:20  
SW.02



ON-SITE DETENTION TANK DETAIL  
N.T.S

|       |                          |          |          |
|-------|--------------------------|----------|----------|
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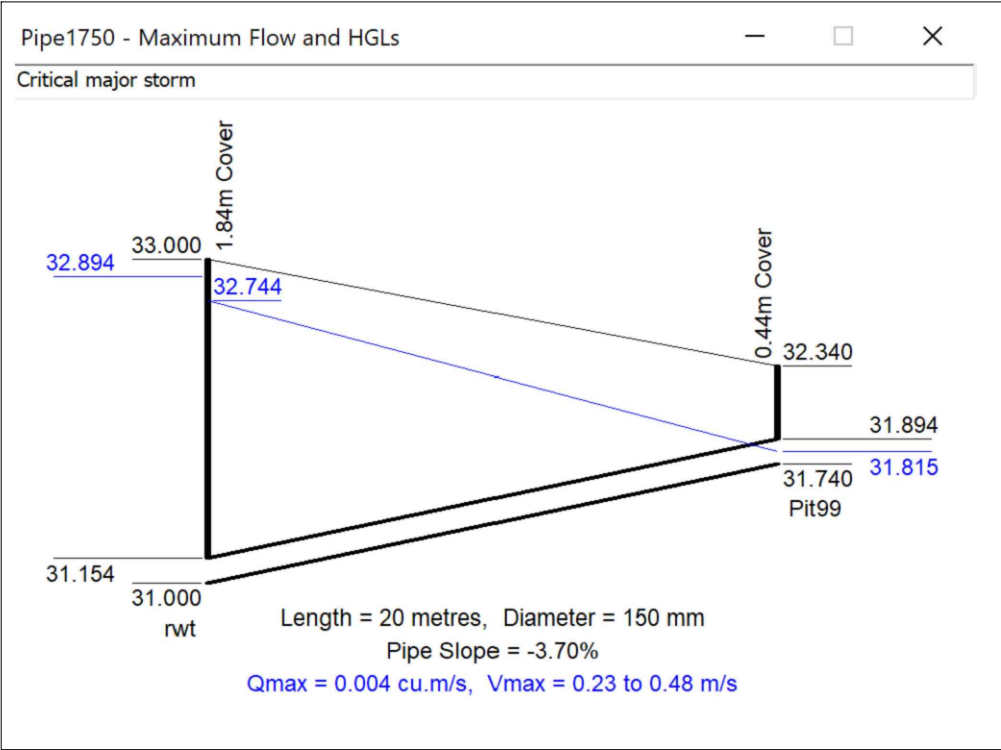
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PROJECT  
**22 WILLIAM STREET  
SOUTH HURSTVILLE NSW**

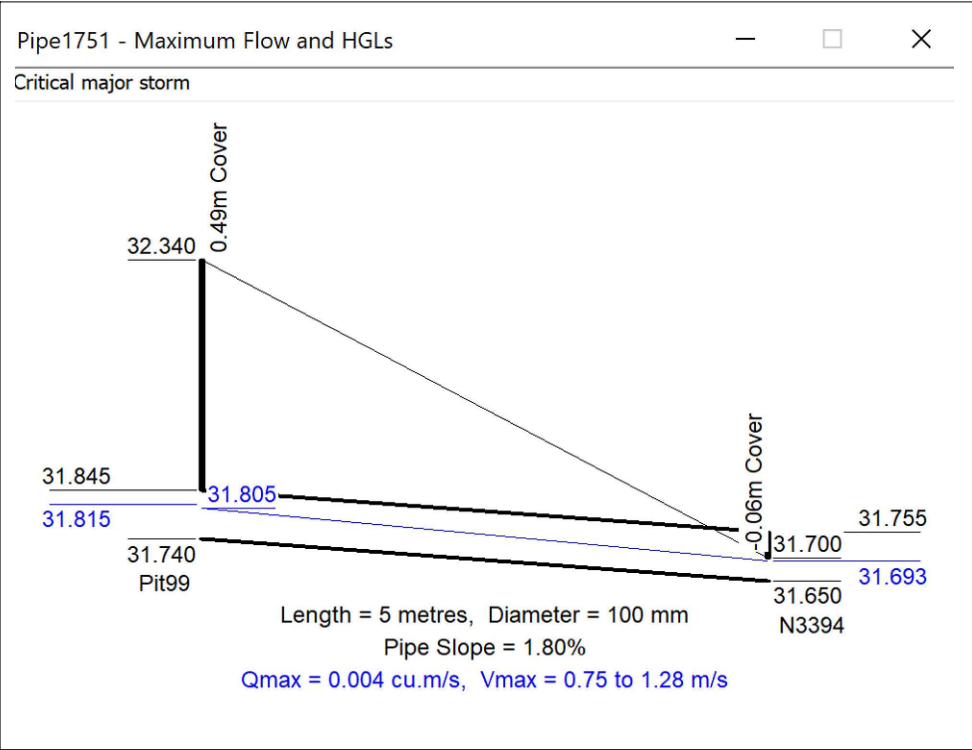
TITLE  
**STORMWATER DETAILS  
SHEET 2**

|             |               |             |           |
|-------------|---------------|-------------|-----------|
| SCALES      | as noted @ A3 | DATE        | JUL. 2021 |
| DRAWN       | SL            | DESIGN      | SL        |
| APPROVED    | SL            | ISSUE       | C         |
| PROJECT No. | 1240          | DRAWING No. | SW.06     |

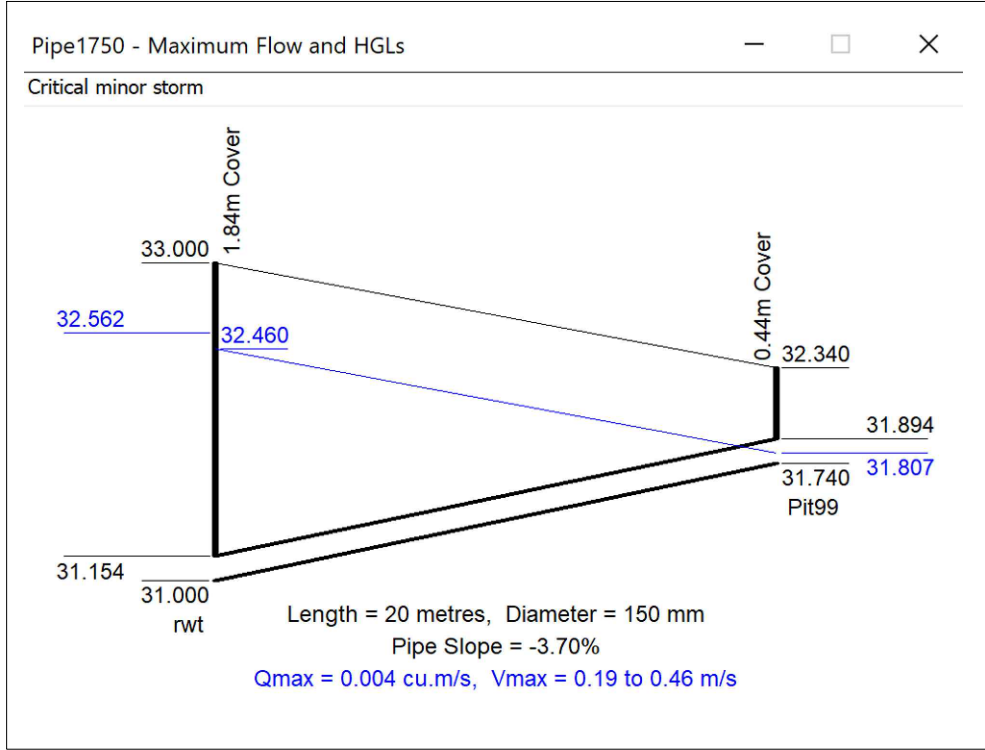
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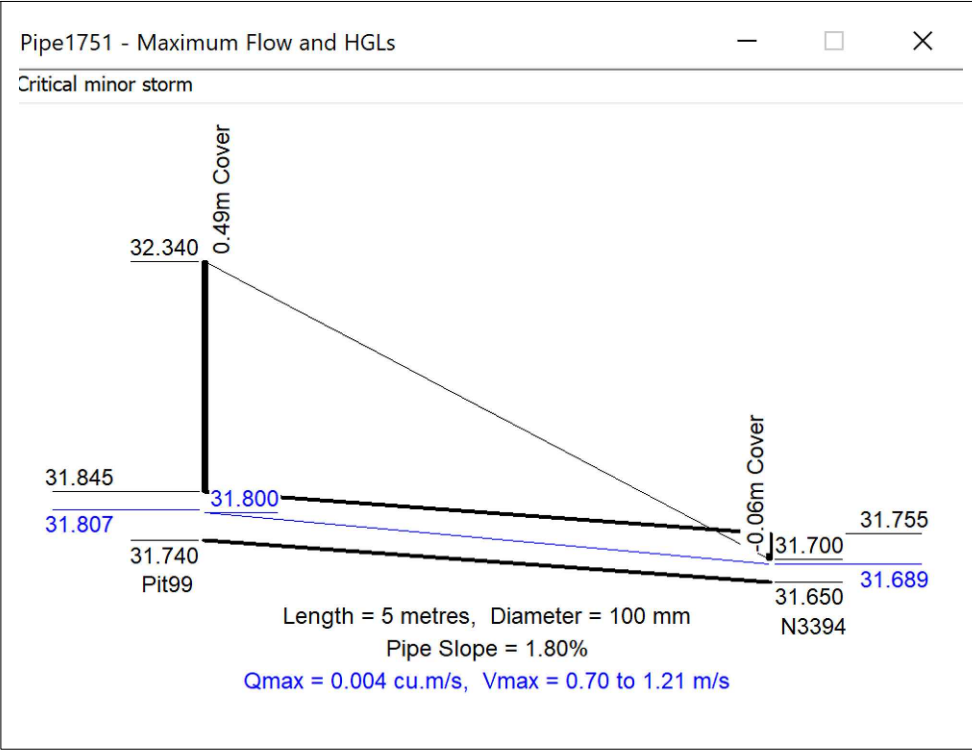
HYDRAULIC GRADE LINE ANALYSIS RESULTS  
100 YEAR ARI (RAINWATER TANK TO BOUNDARY PIT)



HYDRAULIC GRADE LINE ANALYSIS RESULTS  
100 YEAR ARI (BOUNDARY PIT TO KERB AND GUTTER)



HYDRAULIC GRADE LINE ANALYSIS RESULTS  
20 YEAR ARI (RAINWATER TANK TO BOUNDARY PIT)



HYDRAULIC GRADE LINE ANALYSIS RESULTS  
20 YEAR ARI (BOUNDARY PIT TO KERB AND GUTTER)

|       |                          |          |          |
|-------|--------------------------|----------|----------|
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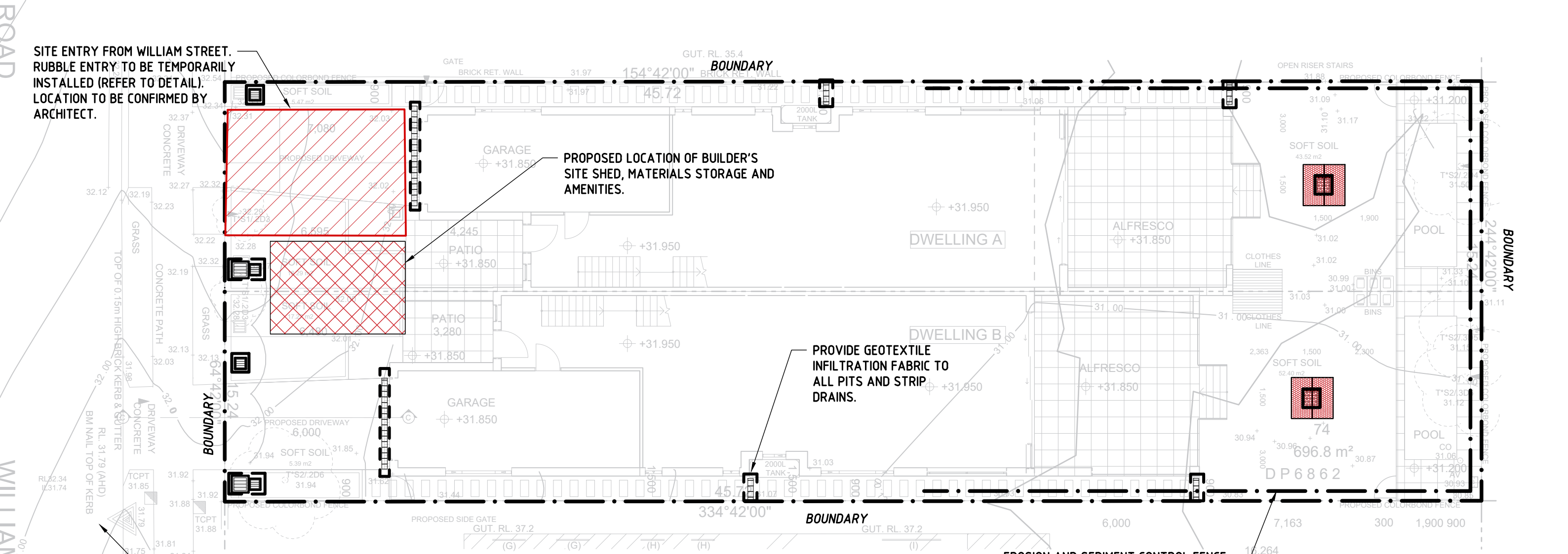
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PROJECT  
**22 WILLIAM STREET  
SOUTH HURSTVILLE NSW**

TITLE  
**HYDRAULIC GRADE LINE  
ANALYSIS**

|   |               |              |          |
|---|---------------|--------------|----------|
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| APPROVED  | SL            |              |          |
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| ISSUE   | PROJECT No.   | DRAWING No.  |          |
| <b>C</b>  | <b>1240</b>   | <b>SW.07</b> |          |

SITE ENTRY FROM WILLIAM STREET.  
RUBBLE ENTRY TO BE TEMPORARILY  
INSTALLED (REFER TO DETAIL).  
LOCATION TO BE CONFIRMED BY  
ARCHITECT.



CONTRACTOR TO ENSURE THAT  
WILLIAM STREET STAYS CLEAN  
FROM SEDIMENT AT ALL TIMES  
AND DURING VEHICULAR TRAFFIC.

**EROSION SOIL & SEDIMENT CONTROL PLAN**  
SCALE 1:75

**GENERAL NOTES.**

- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

**CLAY SOILS**

A SYSTEM SHALL BE INSTALLED TO EITHER:

- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY THE LOCAL COUNCIL.

**EROSION & SEDIMENTATION CONTROL NOTES**

- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

|       |                          |          |          |
|-------|--------------------------|----------|----------|
|       |                          |          |          |
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PROJECT

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SOUTH HURSTVILLE NSW

TITLE

EROSION & SEDIMENT  
CONTROL PLAN

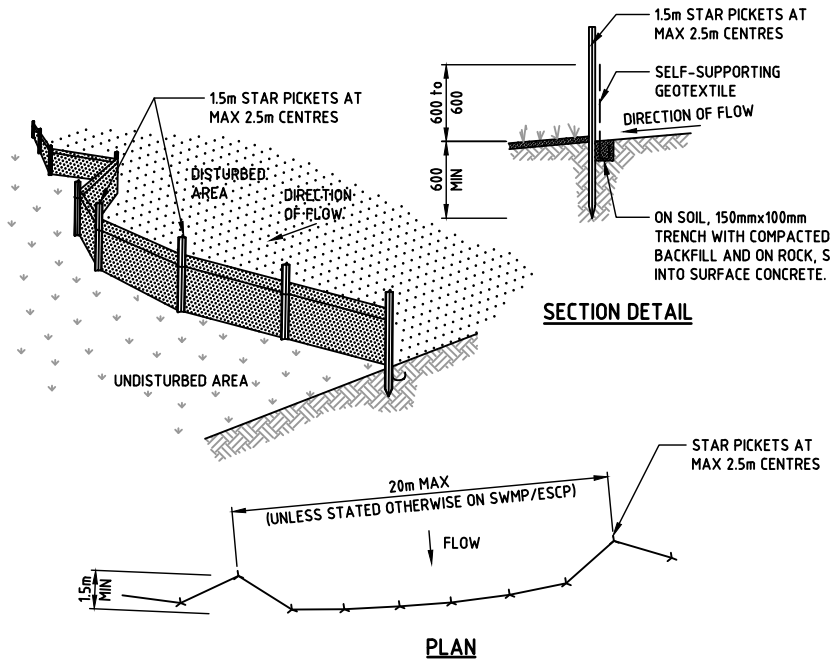
SCALES as noted @ A3 DATE JUL. 2021

DRAWN SL DESIGN SL APPROVED SL

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ISSUE A PROJECT No. 1240 DRAWING No. SW.08

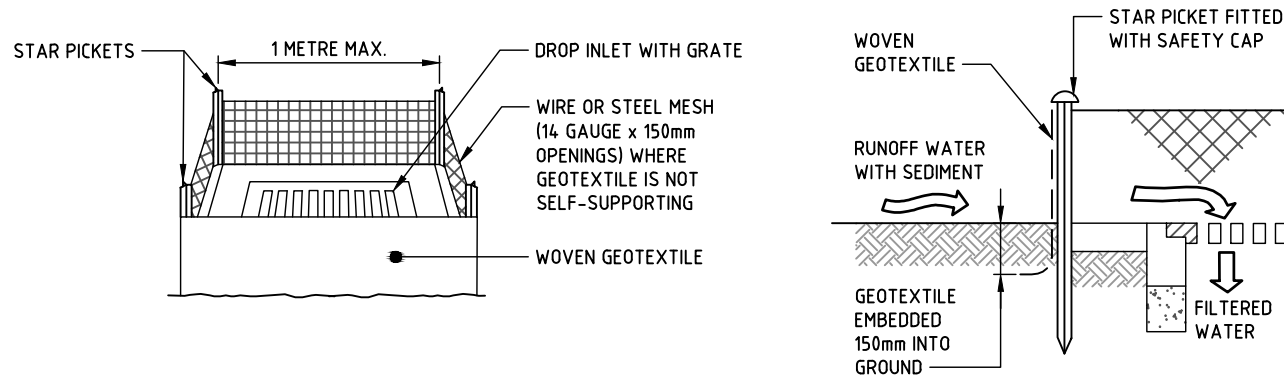




#### CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

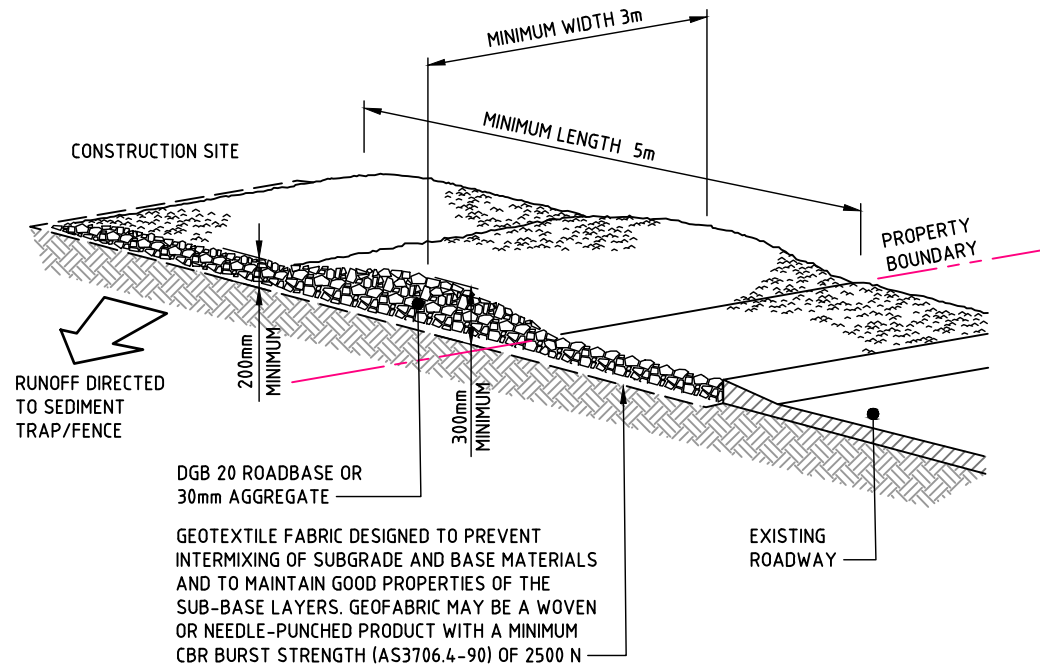
### SEDIMENT FENCE



#### CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

### GEOTEXTILE INLET FILTER TRAPS



#### CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

### STABILISED SITE ACCESS

|       |                          |          |          |
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| A     | CONSTRUCTION CERTIFICATE | SL       | 20.10.21 |
| ISSUE | DESCRIPTION              | APPROVED | DATE     |

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| PROJECT<br><br>22 WILLIAM STREET<br>SOUTH HURSTVILLE NSW   |                         |                          |
| TITLE<br><br>EROSION & SEDIMENT<br>CONTROL DETAILS   |                         |                          |
| SCALES<br><br>as noted @ A3  |                         | DATE<br><br>JUL.2021     |
| DRAWN<br>SL  | DESIGN<br>SL            | APPROVED<br>SL           |
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