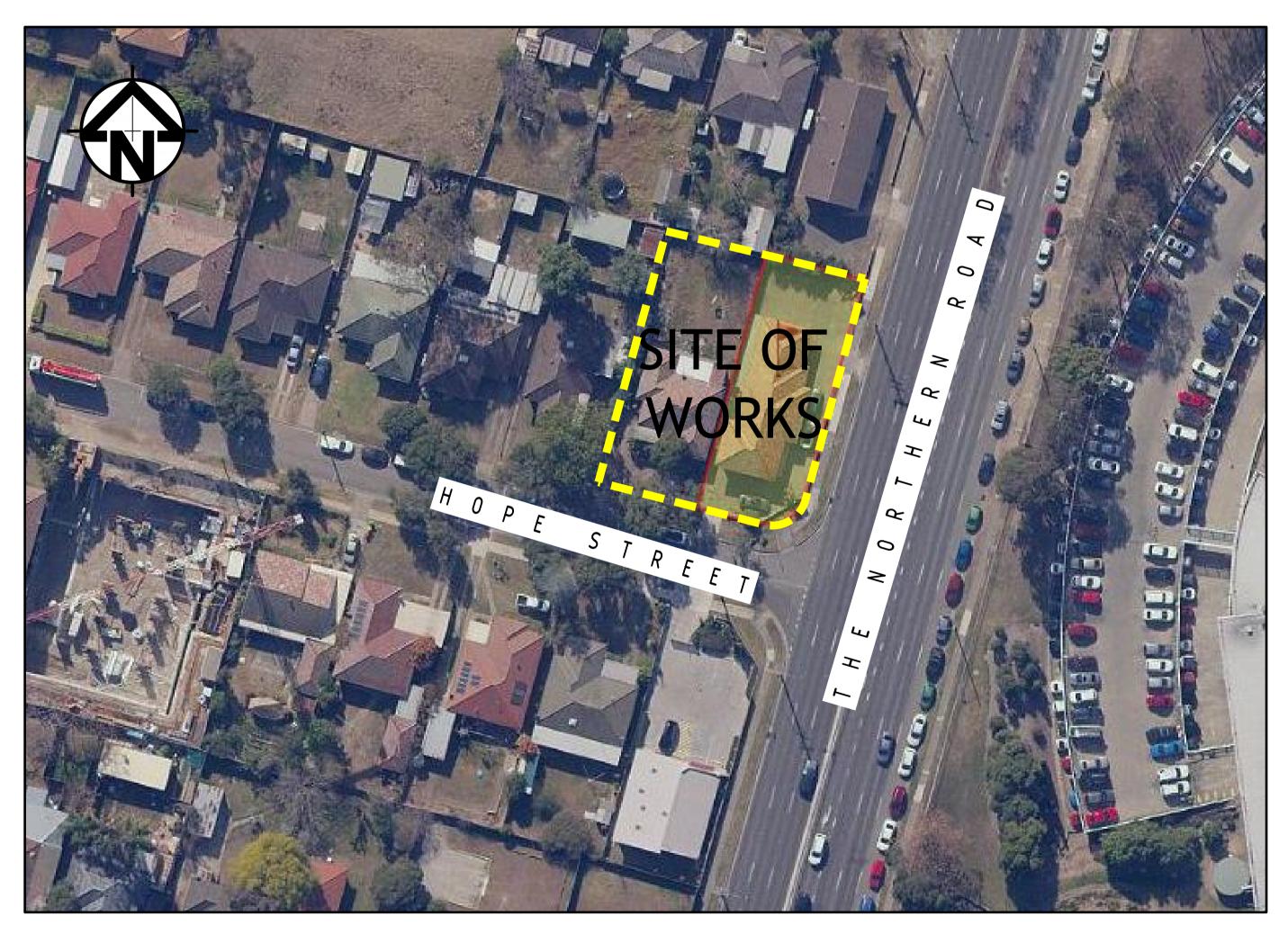
# SW100

# PROPOSED MIXED USE DEVELOPMENT 1-3 HOPE STREET, PENRITH STORMWATER CONCEPT DESIGN



	DRAWINGS LIST					
REV	TITLE	DWG No.	SHEET No.			
A	COVER SHEET	SW100	1			
A	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN	SW200	2			
A	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	SW201	3			
А	STORMWATER CONCEPT DESIGN - DETAILS SHEET	SW300	4			
А	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	SW400	5			
A	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	SW500	6			

LOCALITY PLAN NOT TO SCALE COPYRIGHT OF SIX MAPS



# PREPARED BY:

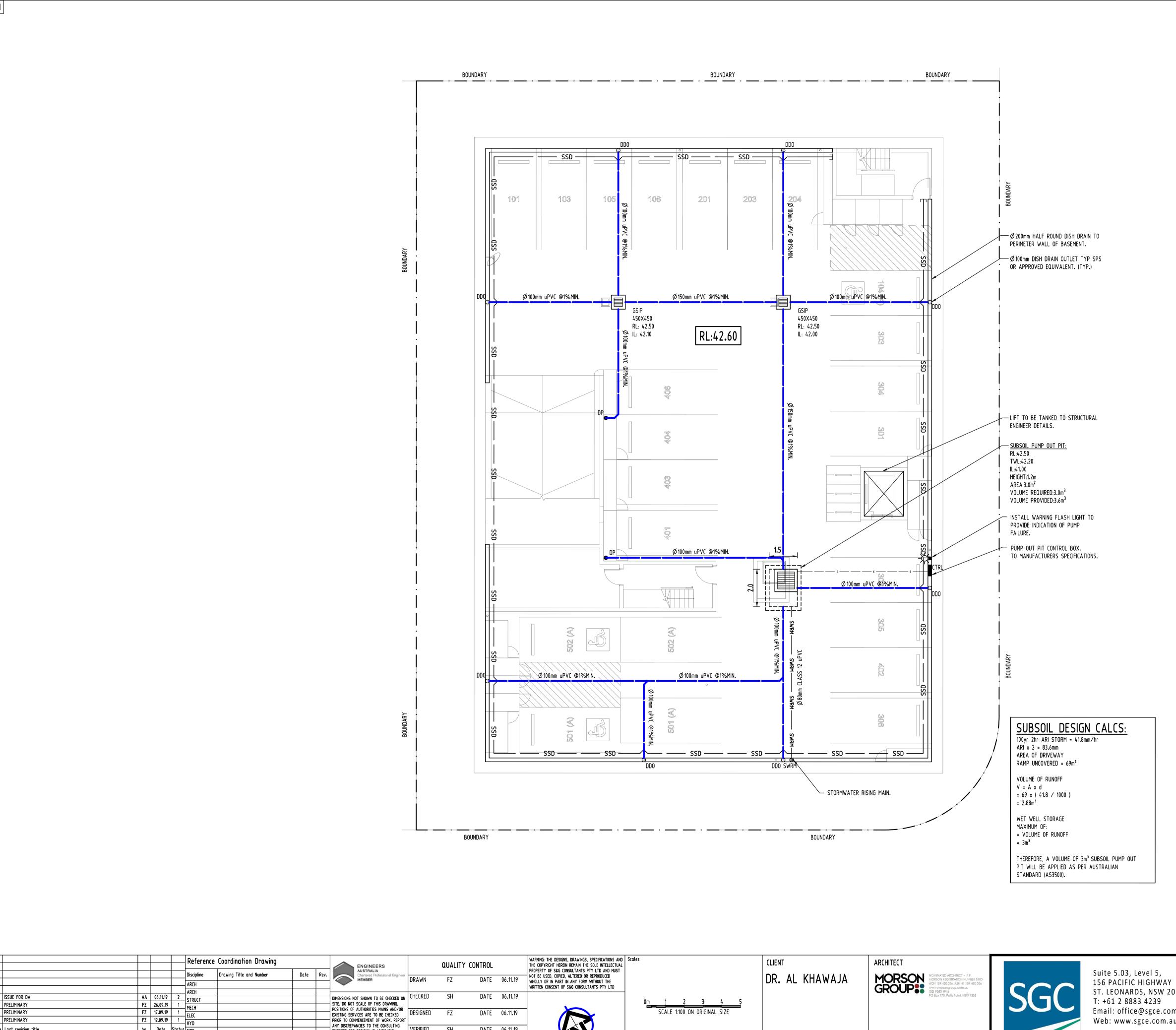
SGC Consulting Engineers Suite 5.03, Level 5 156 Pacific Highway St. Leonards, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au

# ARCHITECT:



# CLIENT:

DR. AL KHAWAJA



0m 1 2 3 4 SCALE 1:100 ON ORIGINAL SIZE

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DATE 06.11.19

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PROJECT FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES PROPOSED MIXED USE ST. LEONARDS, NSW 2065 DEVELOPMENT Email: office@sgce.com.au 1-3 HOPE STREET, Web: www.sgce.com.au Datum Scale (at original size)

1:100 @ A1

| A.H.D. |

2 of 6

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Engineering Value

STORMWATER CONCEPT DESIGN BASEMENT 2 PLAN

20190189

4-tender

A ISSUE FOR DA
P3 PRELIMINARY
P2 PRELIMINARY
P1 PRELIMINARY
P1 PRELIMINARY

Issue Last revision title

1-preliminary

Issuer internal sequence and revision history

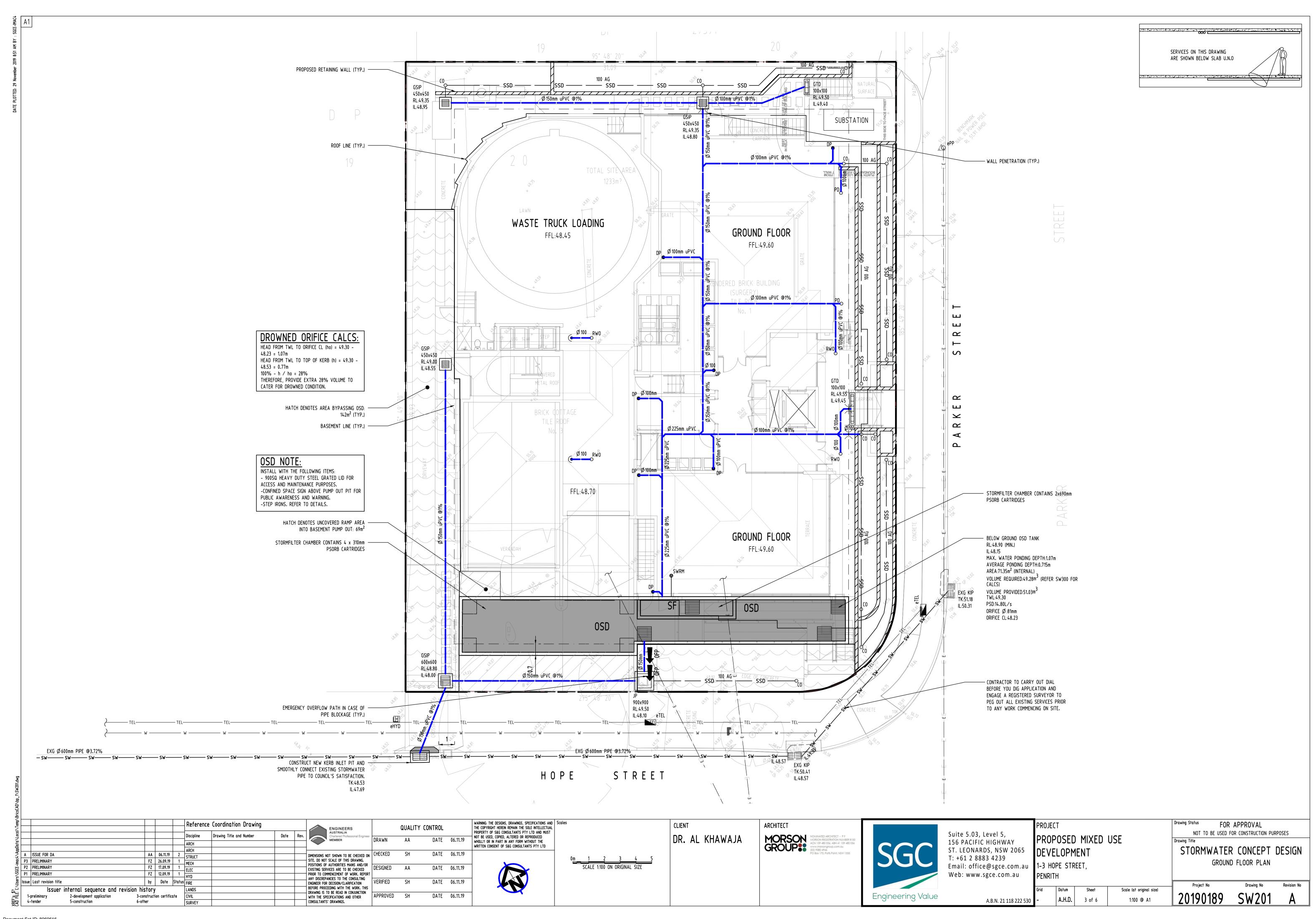
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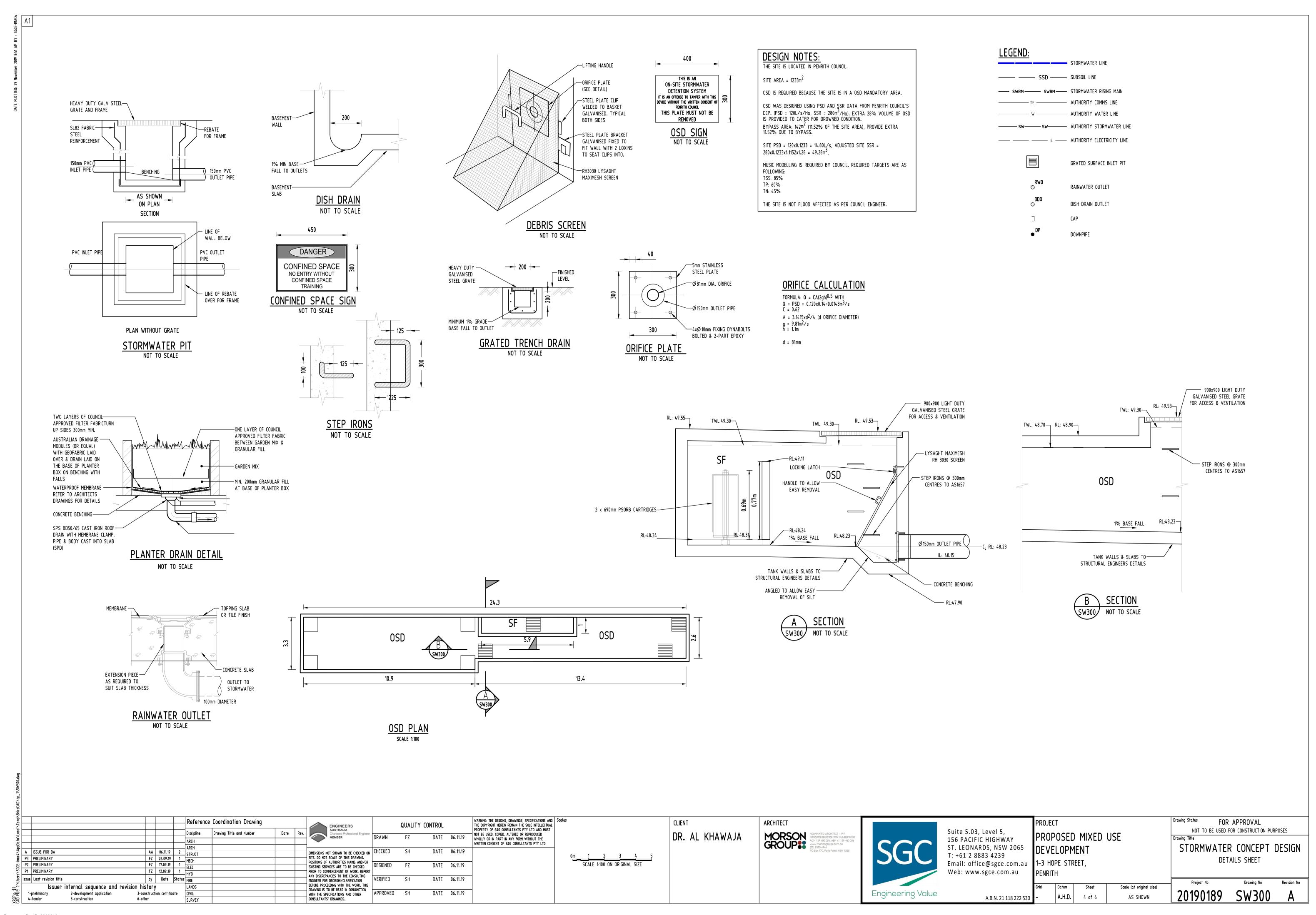
5-construction

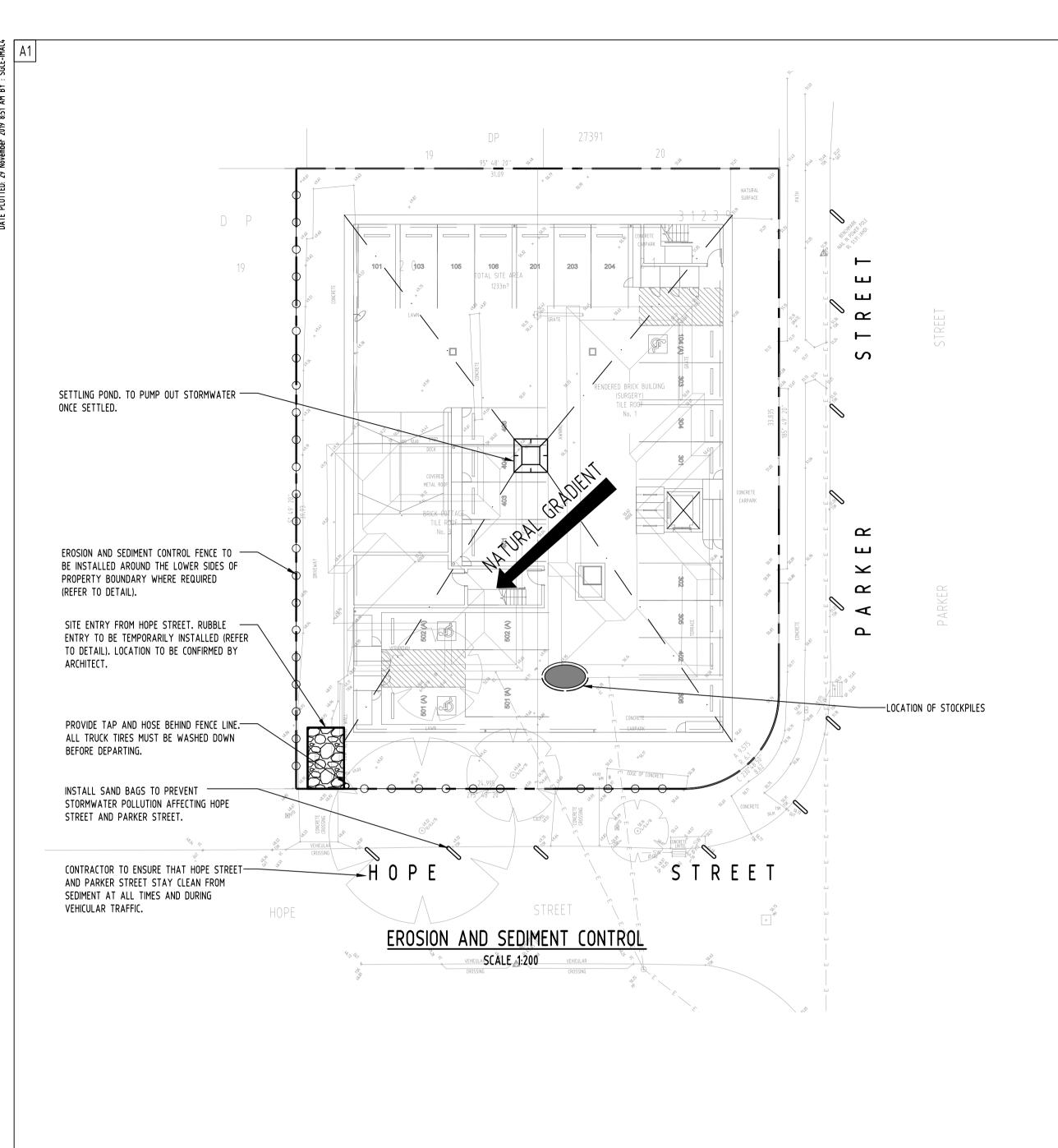
by Date Status FIRE

on history
3-construction certificate CIVIL

6-other







# **EROSION & SEDIMENTATION CONTROL NOTES**

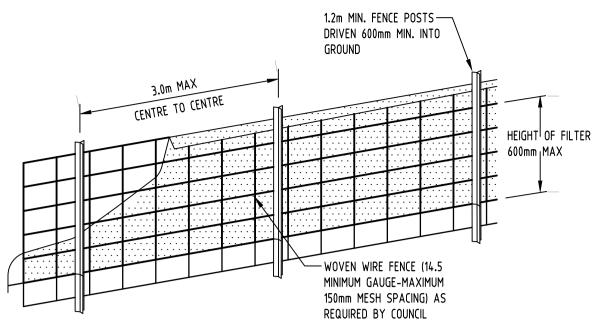
- 1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- 2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- 3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- 4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 5. 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.

## GENERAL NOTES

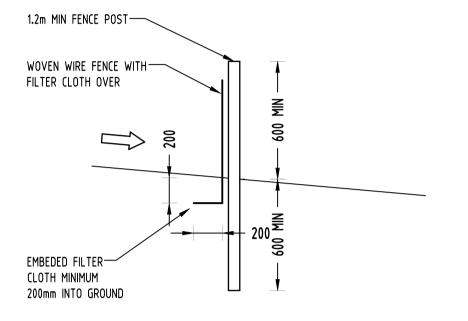
- 1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- 2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE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

### CLAY SOILS

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- 1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- 2. 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 LOCAL COUNCIL



#### DIAGRAMMATIC VIEW

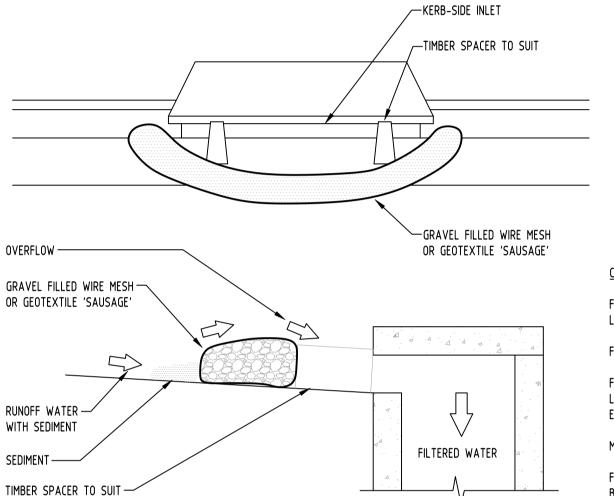


TYPICAL SECTION

SEDIMENT FENCE NOT TO SCALE

# GEOTEXTILE INLET FILTER

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTUCTION NOT ENTER THE PITS.



CONSTRUCTION NOTES:

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAT THE LENGTH OF THE INLET PIT

FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

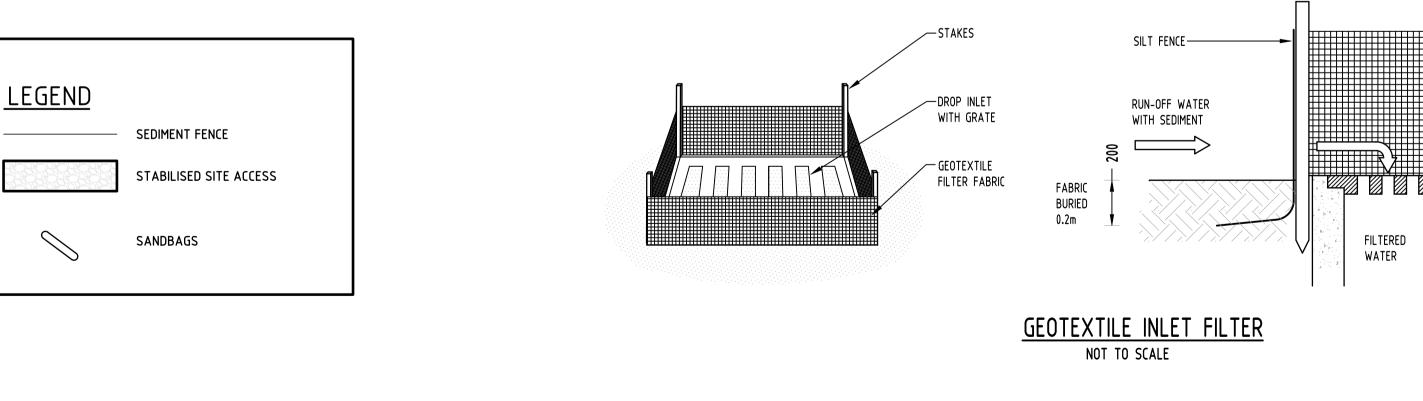
FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

FIT TO ALL KERB INLETS AT SAG POINTS

# GRAVEL INLET FILTER (SAUSAGE) NOT TO SCALE



QUALITY CONTROL

DATE 06.11.19

DATE 06.11.19

DIMENSIONS NOT SHOWN TO BE CHECKED ON CHECKED

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APPROVED SH

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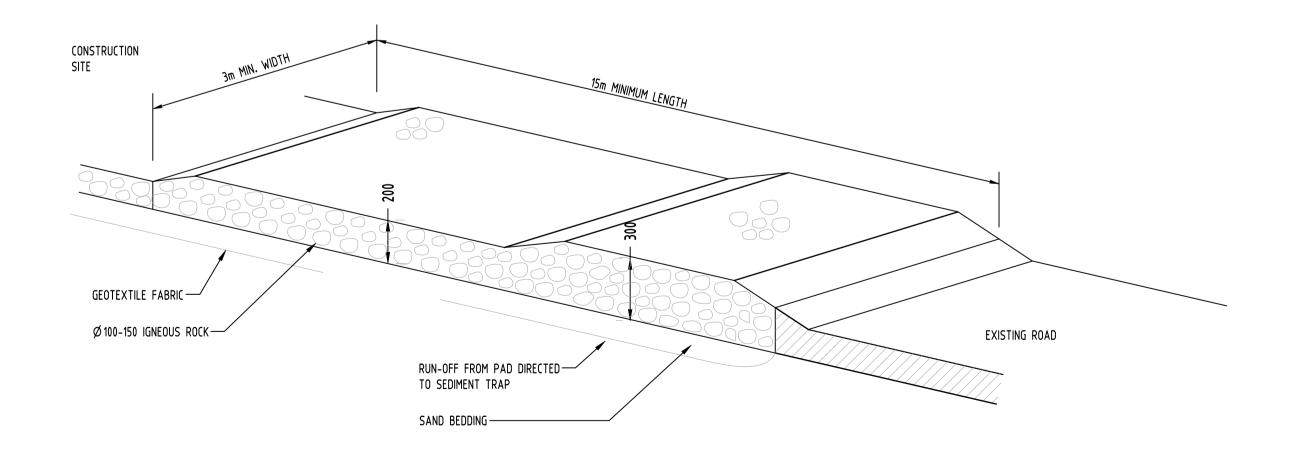
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# TEMPORARY CONSTRUCTION EXIT RUBBLE ALTERNATIVE

NOT TO SCALE

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4-tender

A ISSUE FOR DA

P3 PRELIMINARY

P2 PRELIMINARY
P1 PRELIMINARY

Issue Last revision title

Issuer internal sequence and revision history

2-development application

5-construction

**LEGEND** 

Reference Coordination Drawing

Discipline

LANDS

CIVIL

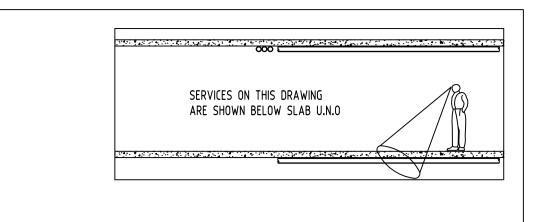
AA 06.11.19 2 STRUCT
FZ 26.09.19 1 MECH
FZ 17.09.19 1
ELEC

Z 12.09.19 1 HYD

by Date Status FIRE

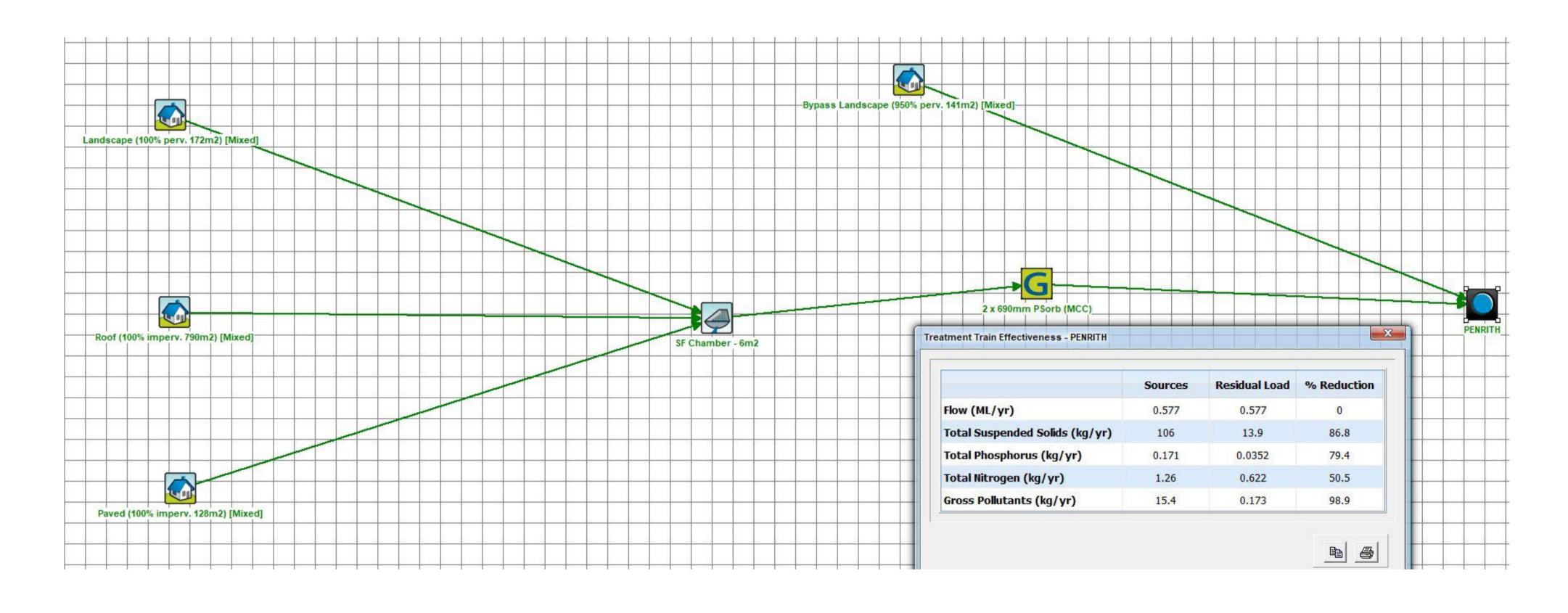
3-construction certificate

6-other





LANDSCAPING AREA TO SF (172m<sup>2</sup>) ROOF AREA TO SF (790m<sup>2</sup>) PAVED AREA TO SF (128m<sup>2</sup>) BYPASS LANDSCAPING (141m<sup>2</sup>)



Reference Coordination Drawing QUALITY CONTROL | Discipline | ARCH | ARCH | ARCH | STRUCT | FZ | 26.09.19 | 1 | ELEC | FZ | 12.09.19 | 1 | ELEC | HYD | CARPER DATE 06.11.19 A ISSUE FOR DA
P3 PRELIMINARY
P2 PRELIMINARY
P1 PRELIMINARY
Issue Last revision title DIMENSIONS NOT SHOWN TO BE CHECKED ON CHECKED SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED DESIGNED DATE 06.11.19 PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING by Date Status FIRE ENGINEER FOR DECISION/CLARIFICATION
BEFORE PROCEEDING WITH THE WORK. THIS LANDS CIVIL Issuer internal sequence and revision history DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER APPROVED SH 3-construction certificate DATE 06.11.19 2-development application 4-tender

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0m 2 4 6 8 10 SCALE 1:200 ON ORIGINAL SIZE

ARCHITECT MORSON GROUP:

DR. AL KHAWAJA

Engineering Value

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PROJECT PROPOSED MIXED USE DEVELOPMENT

Datum

A.H.D.

6 of 6

Scale (at original size)

1:200 @ A1

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES

STORMWATER CONCEPT DESIGN MUSIC CATCHMENT PLAN

5-construction

6-other

SURVEY

#### 6. APPENDICES

#### **APPENDIX A**

#### **Checklist for Stormwater Concept Plan**

Survey Information			No	NA
1.	Site boundaries are clearly indicated	<b>Ø</b>		
2.	North point shown			
3.	Services within the public footway			
4.	Site features including tree, structures, depressions			
5.	Contours at 0.1m for flat sites ranging to 0.5m for steep sites and extending 10m into adjoining properties	Ø		
6.	Top of kerb levels			
7.	Boundary levels	Ø		
8.	Levels to AHD where site is affected by overland flow, flooding or where works on Council's drainage network are required.	Ø		
9.	Benchmarks indicated	Ø		
Gener	ral entre	Yes	No	NA
1.	Plans to scale of 1:100 or 1:200	<b>V</b>		
2.	Designers name, qualifications and contact details are included on the plans	Ø		
3.	Design report submitted including details of any variations	<b>Ø</b>		
4.	Plans are consistent with architectural and landscape plans	Ø		
5.	100 year ARI overland flow extents provided			
6.	Development layout and proposed driveway locations are clearly indicated	Ø		
7.	Drainage layout with preliminary pipe sizing and levels	$   \overline{\mathbf{Z}} $		
	Preliminary calculations to indicate that the proposed design is achievable, as required	V		
9.	Proposed finished floor, garage and ground surface levels			
10	. Freeboard to finished levels has been achieved	V		
11	. Location and level of any proposed retaining walls	Ø		
12	. Proposed connection point to Council's stormwater system	Ø		
13	. Appropriate tail water selected	Ø		
14	. The proposal will not have adverse impact on other properties or	<b>7</b>		

Penrith City Council Page 29 of 57

OSD		Yes	No	NA
1.	Detention volume complies with this policy	<b>V</b>		
2.	Less than 15% OSD bypass	Ø		
3.	Overland flows are clear of the OSD system	V		
4.	OSD is within common areas, clear of private courtyards and accessible from the street	Ø		
5.	Storage depths comply	V		
6.	Overflow weir provided			<b>V</b>
7.	Typical sections of OSD storage have been provided	V		

Penrith City Council Page **30** of **57**