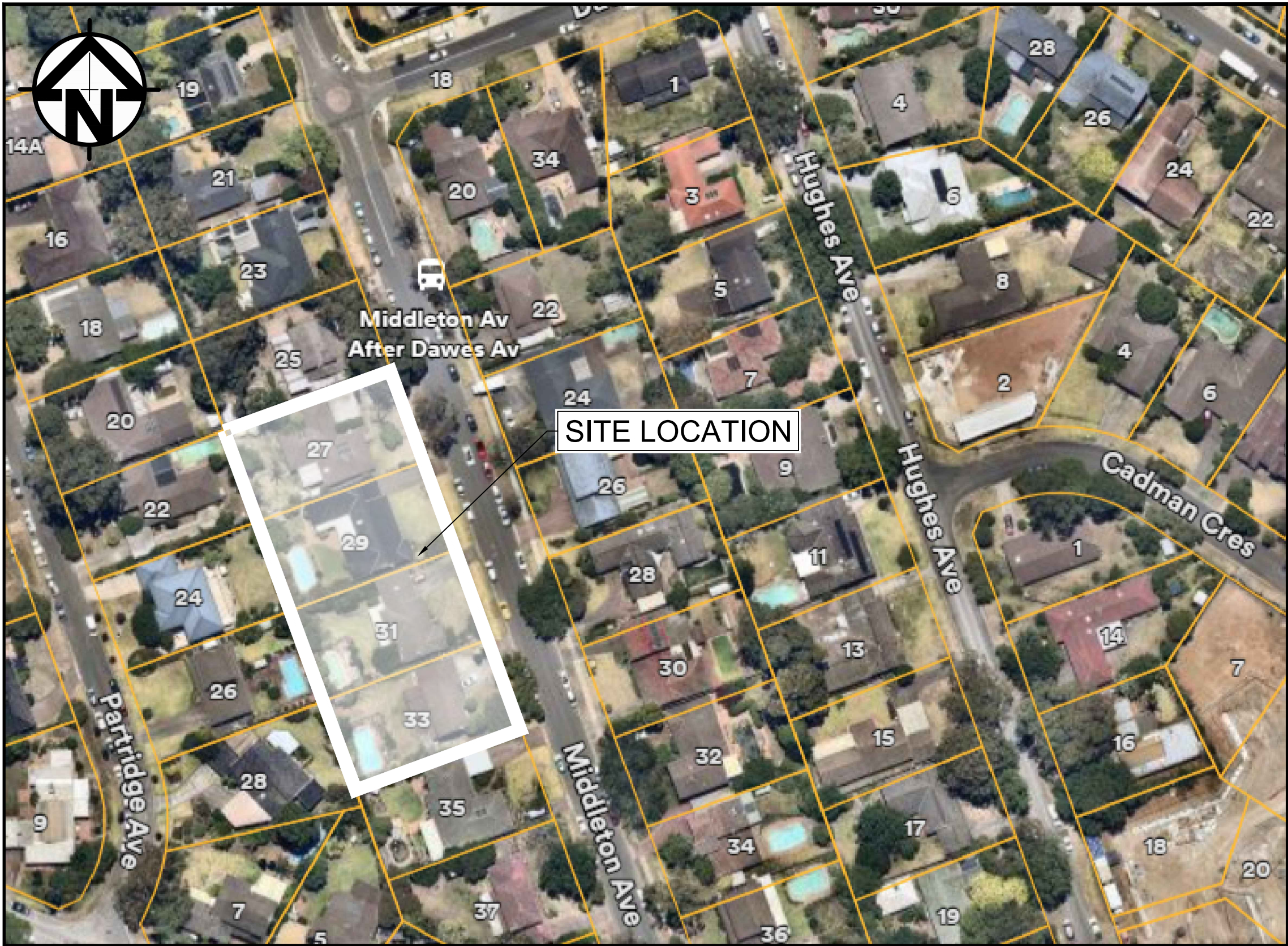


27-33 MIDDLETON AVENUE,
CASTLE HILL
STORMWATER CONCEPT DESIGN - SSDA



LOCALITY PLAN
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DRAWING INDEX			
SHEET No.	DWG. No.	DRAWING TITLE	REV.
01	S02-SW100	COVER SHEET & DRAWING INDEX	D
02	S02-SW101	NOTES & LEGEND	D
03	S02-SW201	EROSION & SEDIMENT CONTROL PLAN	D
04	S02-SW202	EROSION & SEDIMENT CONTROL DETAILS	D
05	S02-SW301	STORMWATER CONCEPT DESIGN - BASEMENT 3	D
06	S02-SW302	STORMWATER CONCEPT DESIGN - GROUND FLOOR SHEET 01 OF 02	D
07	S02-SW303	STORMWATER CONCEPT DESIGN - GROUND FLOOR SHEET 02 OF 02	D
08	S02-SW401	STORMWATER CONCEPT DESIGN - DETAILS SHEET 01 OF 02	D
09	S02-SW402	STORMWATER CONCEPT DESIGN - DETAILS SHEET 02 OF 02	D
10	S02-SW501	STORMWATER CONCEPT DESIGN - OSD CATCHMENT PLAN	D
11	S02-SW502	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	D
12	S02-SW503	STORMWATER CONCEPT DESIGN - MUSIC RESULTS & DETAILS	D

PREPARED BY



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ARCHITECT



CLIENT



LGA



	STORMWATER LINE TO OSD/WSUD
	STORMWATER LINE BYPASSING OSD/WSUD
	STORMWATER LINE TO RAINWATER TANK
	SUBSOIL LINE
	STORMWATER RISING MAIN
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY OVER HEAD ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY COMMS LINE



RV

CC

DD

PD

- **DR**



00.00

D or DIA	DIAMETER
CO	CLEAR OUT
DDO	DISH DRAIN OUTLET
DP	DOWNPPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
IL	INVERT LEVEL
KIP	KERB INLET PIT
NGL	NATURAL GROUND LEVEL
OFF	OVERFLOW PATH
OSD	ON-SITE DETENTION
RCP	REINFORCED CONCRETE PIPE
RL	REDUCED LEVEL
RWT	RAINWATER TANK
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
TOK	TOP OF KERB
TOW	TOP OF WALL
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE



- G1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.
- G2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G3. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
- G4. BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND LEVEL.
- G5. SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.
- G6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SZZ CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
- G7. 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 WORK HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
- G8. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
- G9. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- G10. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.
- G11. DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES).
- G12. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.
- G13. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- G14. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
- G15. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
- G16. S&G CONSULTANTS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
- G17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES. ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.
- G18. VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER.
- G19. THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.
- G20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION.
- G21. CONTRACTOR TO PROVIDE WORKSHOP COORDINATED DRAWINGS PRIOR TO COMMENCING WORKS ON SITE. WORKSHOP DRAWINGS TO BE REVIEWED AND APPROVED BY DESIGN ENGINEER.

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE AS3500.3-2003: 'STORMWATER DRAINAGE'.

S2. FOR STORMWATER DRAINAGE PIPES THAT EXCEED 1:5 GRADE, REINFORCED CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED. ANCHOR BLOCKS TO BE CONSTRUCTED TO SPECIFICATIONS SET OUT IN AS3500.3-2018 SECTION 8.10.

S3. EXISTING SERVICES SHOWN IN APPROXIMATE LOCATIONS ONLY. CONFIRM EXACT LOCATIONS ON SITE PRIOR TO COMMENCING WORK.

S4. COORDINATE THE INSTALLATION OF NEW SERVICES WITH ALL NEW & EXISTING SERVICES & STRUCTURAL PROVISIONS AS DETERMINED ON SITE.

S5. ALL PIPEWORK TO BE SUPPORTED IN ACCORDANCE WITH AS3500.3-2018.

S6. ALL PIPEWORK IS TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS AS SET DOWN IN AS3500.3-2003. ALL IN-GROUND PIPEWORK TO BE INSPECTED BY THE SUPERINTENDENT UNDER TEST CONDITIONS PRIOR TO BACKFILLING. BACKFILLING AND BEDDING TO AS3500.3-2018.

S7. PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRE OF THE INLET PIPE INTERSECTS WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.

S8. BED ALL PIPES FIRMLY AND EVENLY WITH IMPACTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN SOIL AND 200mm IN ROCK.

S9. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS3725-2007: 'DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES'.

S10. ALLOW TO TEST ALL PIPES AND PITS TO LOCAL AUTHORITY'S REQUIREMENTS.

S11. EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO REUSE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.

S12. BACKFILL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR THE FOOTWAY SHALL BE AS FOLLOW:

UNDER ROADWAY
TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RMS QA SPECIFICATION 3051 OR SIMILAR.

OTHER THAN ROADWAY
TRENCH MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 25mm AND 75mm AND NONE LARGER THAN 75mm. PRIOR TO USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER.

S13. COMPACT BEDDING, EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOW:
EMBEDMENT:
FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOIL) e.g. COARSE AGGREGATE FILL, THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

TRENCH FILL:
FOR GRANULAR MATERIAL (NON COHESIVE SOILS), THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%. FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

S14. EXISTING SERVICES
UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.

S15. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS.

S16. THE CONTRACTOR SHALL ENSURE THAT SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AT ALL TIMES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING WHERE REQUIRED. ONCE THE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.

S17. DRAINAGE PIPES
EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE REMOVED OR SEALED AS INDICATED ON THE PLANS. PIPES UP TO 300mm DIAMETER SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS (U.N.O.). ALL PIPE JUNCTIONS AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.

S18. WHERE DOWNPIPPES PASS UNDER FLOOR SLABS, SEWER GRADE uPVC WITH RUBBER RING JOINTS ARE TO BE USED.

S19. MINIMUM GRADE TO DRAINAGE PIPES TO BE 1% (U.N.O.), MIN. SIZE 100mm DIAMETER (U.N.O.).

- S20. PIPES EQUAL TO AND LARGER THAN 375mm DIAMETER TO BE REINFORCED CONCRETE RUBBER RING JOINTED TYPE (CLASS 2) MANUFACTURED TO AS4058 (U.N.O.).
- S21. PIPE INSTALLATION UNDER TRAFFICABLE AREAS SHALL BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION OF AUSTRALIA PUBLICATION "CONCRETE PIPE SELECTION & INSTALLATION" TYPE H53 SUPPORT.
- S22. EQUIVALENT STRENGTH FRC PIPES MAY BE USED SUBJECT TO AUTHORITY APPROVAL.
- S23. MINIMUM PIPE COVER TO BE 600mm UNDER TRAFFICABLE AREAS AND 300mm ELSEWHERE (U.N.O.).
- S24. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- S25. PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.
- S26. STORMWATER DRAINAGE CONNECTIONS TO COUNCIL'S SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.
- S27. DRAINAGE PITS
PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300 CENTRES TO AS1657-2013: FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION.
- S28. ALL EXPOSED EDGES TO BE ROUNDED WITH 20mm RADIUS, OR CHAMFERED 20mm x 20mm.
- S29. PIT REINFORCEMENT - MESH SL82 LAP TO BE 400mm MIN. CLEAR COVER 40 MIN. CAST AGAINST BLINDING OR FORMWORK. CORNER RETURNS MAY BE FABRIC OR EQUIVALENT BARS.
- S30. BENCHING TO BE HALF OUTGOING PIPE DEPTH. CONCRETE FOR BENCHING TO BE 20MPa MASS CONCRETE.
- S31. APPROVED PRECAST PITS MAY BE USED.
- S32. 100mm DIAMETER HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED 100mm ABOVE INVERT OF ALL INLET PIPES. SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3m UPSTREAM OF PIT (AT EACH INLET TRENCH) WITH THE UPSTREAM END SEALED.
- S33. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- S34. PIT GRATE, FRAMES AND SOLID COVERS SHALL BE CLASS B IN NON TRAFFIC AREAS AND CLASS D IN TRAFFICABLE AREAS IN ACCORDANCE WITH AS3996.
- S35. ALL GRATES SHALL BE PROVIDED WITH A LOCKING CLIP.
- S36. MAXIMUM FRONT ENTRY PIPE:-
STRAIGHT ENTRY - Ø750
SKEW ENTRY 45° - Ø525
- S37. PIT GRATING TO BE GALVANISED STEEL TYPE 'WELDLOK' OR APPROVED EQUIVALENT.
- S38. SUBSOIL DRAINAGE
SUBSOIL PIPES SHALL BE LAID AT A MIN GRADE OF 0.5% (U.N.O.).
- S39. ADDITIONAL SUBSOIL DRAINAGE SHALL BE LAID TO SUIT SITE CONDITIONS AND GROUNDWATER PRESENCE AS DIRECTED.
- S40. SUBSOIL PIPES SHALL BE LAID BEHIND KERBS IN CUT AREAS OF THE SITE.
- S41. SUBSOIL DRAINAGE SHALL CONSIST OF A SLOTTED 100mm DIAMETER PLASTIC PIPE WRAPPED IN GEOTEXTILE AND PLACED A MINIMUM OF 600mm BELOW THE SUBGRADE LEVEL AND COVERED WITH 500mm OF 20mm GRAVEL. PROVIDE A MINIMUM OF 150mm GRAVEL AROUND SUBSOIL PIPE. TRENCH TO BE LINED WITH GEOTEXTILE FABRIC TYPE BIDIM A24.
- S42. GRATES TO PITS IN FOOTPATH AREAS SHALL BE HEEL SAFE COMPLYING WITH THE DISABLED ACCESS CODE.
- S43. CONTRACTOR TO PROVIDE WORKSHOP COORDINATED DRAWINGS PRIOR TO COMMENCING WORKS BY SITE. WORKSHOP DRAWINGS TO BE REVIEWED AND APPROVED BY DESIGN ENGINEER.
- S44. ALL EXTERNAL AREA TO HAVE A MINIMUM 1% FALL TO OUTLETS PROVIDED.
- S45. PROVIDE OVERFLOWS TO ALL AREAS TO ARCHITECT'S SPECIFICATIONS.
- S46. ALL RAINWATER OUTLETS TO OPEN AREAS SHALL BE SPS TRUFLO TYPE TIA100F UNLESS NOTED OTHERWISE. DO NOT INSTALL BALCONY OUTLETS OR SIMILAR IN AREAS SUBJECT TO DIRECT RAINFALL.
- S47. ALL PVC PIPES TO HAVE EXPANSION JOINTS IN ACCORDANCE WITH AS/NZS2032.
- S48. CONNECT ALL TIDNISHES FROM MECHANICAL A/C UNITS INTO STORMWATER ONLY IF ACCEPTABLE BY THE LOCAL COUNCIL BUILDER TO VERIFY AND OBTAIN CONSENT.
- S49. ALL GRATED TRENCH DRAINS IN FRONT OF FIRE EXIT DOORS TO BE SET 100mm AWAY FROM DOOR (TYPICAL).

EC1. BEFORE EARTHWORKS CAN COMMENCE THE EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE.

EC2. DURING THE CONSTRUCTION PERIOD, THESE CONTROL MEASURES WILL NEED TO BE INSPECTED & MAINTAINED REGULARLY, ESPECIALLY AFTER STORM EVENTS, BY THE CONTRACTOR.

EC3. ALL WORK IS TO BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION & SEDIMENTATION OF THE STORAGE SITE, SURROUNDING AREAS & DRAINAGE SYSTEMS.

EC4. MINIMIZE DISTURBED AREA COVERED WITH NATURAL VEGETATION. ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE TO BE DISTURBED.

EC5. INSTALL EROSION/SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION OR EXCAVATION OPERATIONS.

EC6. PROVIDE SILT FENCE/STRAW BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS. THE 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.

EC7. ISOLATE EXISTING STORMWATER PITS WITH STRAW BALES OR SILT TRAPS TO FILTER ALL INCOMING FLOWS.

EC8. DO NOT STOCKPILE EXCAVATED MATERIAL ON THE ROAD WAY.

EC9. DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS.

EC10. 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 AND LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

EC11. 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.

EC12. ADOPT TEMPORARY MEASURES AS MAY BE NECESSARY FOR EROSION & SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

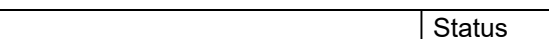
<u>DRAINS:</u>	TEMPORARY DRAINS AND CATCH DRAINS. SPREADER BANKS OR OTHER
<u>STRUCTURES:</u>	TO DISPERSE CONCENTRATED RUNOFF.
<u>SILT TRAPS:</u>	CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM AREAS.

EC13. AFTER RAIN, INSPECT, CLEAN, AND REPAIR IF REQUIRED, TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.

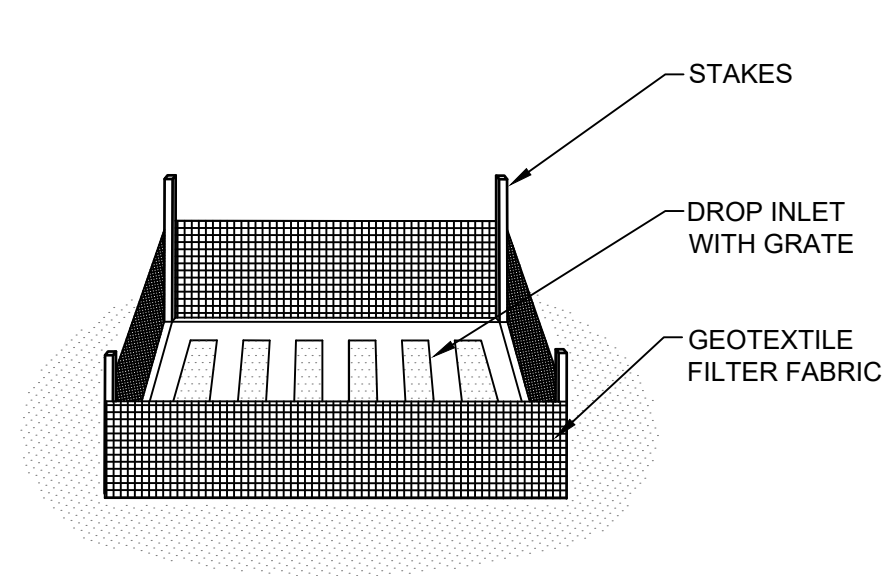
EC14. REMOVE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES WHEN THEY ARE NO LONGER REQUIRED.

EC15. COMPLY WITH THE REQUIREMENTS OF LANDCOM'S MANAGING URBAN STORMWATER SOIL AND CONSTRUCTION 'THE BLUE BOOK' LATEST EDITION.

EC16. THE EROSION & SEDIMENT CONTROL PLAN PROVIDED IS ONLY INDICATIVE. THE CONTRACTOR SHOULD PREPARE A DETAILED ESCP SUITABLE FOR THE SPECIFIC SITE CONDITIONS.

					Reference Coordination Drawing				Quality Control		ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD. DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.	Scales		Client		Architect		   S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530 PROJECT 27-33 MIDDLETON AVENUE, CASTLE HILL STORMWATER CONCEPT DESIGN	Status ISSUED FOR SSDA NOT FOR CONSTRUCTION		
D	ISSUED FOR SSDA	AA	06.05.26	02	Discipline	Drawing Title and Number	Date	Rev.	DRAWN	DATE		Drawing Title		NOTES & LEGEND			Project No. Set No. - Drg No. Revision No.				
C	ISSUED FOR SSDA	AA	04.05.26	02	ARCH				AA	06.05.26									20250030 S02-SW101 D		
B	ISSUED FOR DA	KF	27.04.26	02	STRUCT				CHECKED	DATE											
A	ISSUED FOR DA	KF	19.02.26	02	MECH				OC	06.05.26											
P01	PRELIMINARY	KF	19.01.26	01	ELEC				DESIGNED	DATE											
Issue	Last revision title	By	Date	Status	HYD				AA	06.05.26											
Issuer internal sequence and revision history					VERIFIED	DATE			OC	06.05.26											
1-preliminary					OC	06.05.26			APPROVED	DATE											
2-development application					SH	06.05.26															
3-construction certificate																					
4-tender																					
5-construction																					
6-other																					

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE 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.



The diagram illustrates the function of a silt fence. It shows a vertical barrier labeled 'SILT FENCE' that intercepts 'RUN-OFF WATER WITH SEDIMENT' (represented by a cross-hatched area). The water is forced to flow through the fabric, which is buried 0.2m into the ground. The diagram indicates a depth of '200' (likely millimeters) for the fabric burial. The water is then shown as 'FILTERED WATER' (represented by a stippled area) that has passed through the fabric and is being collected in a ditch or channel.

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN 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

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.

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

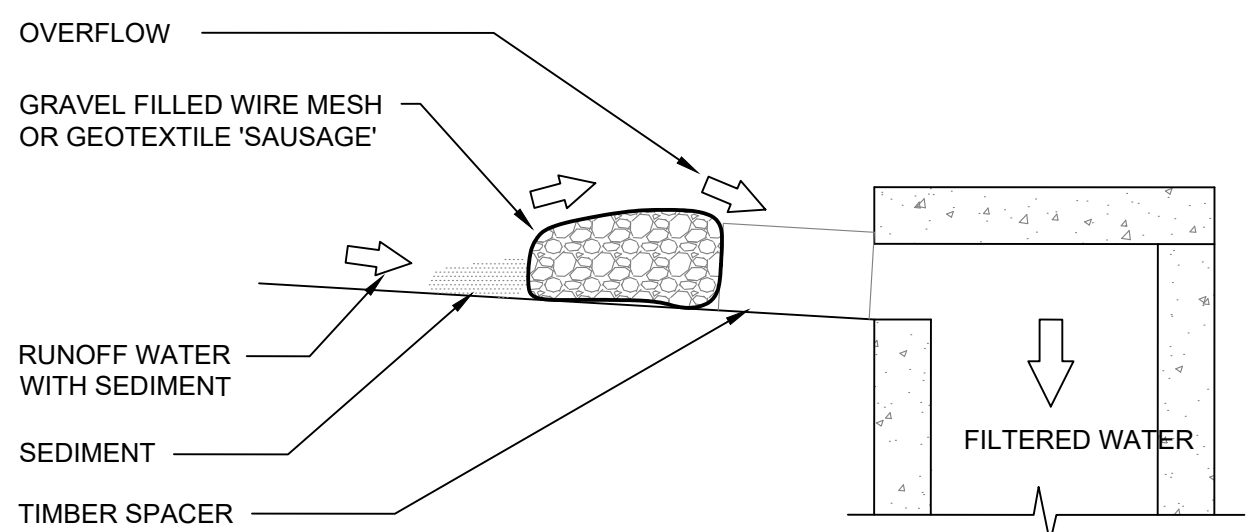
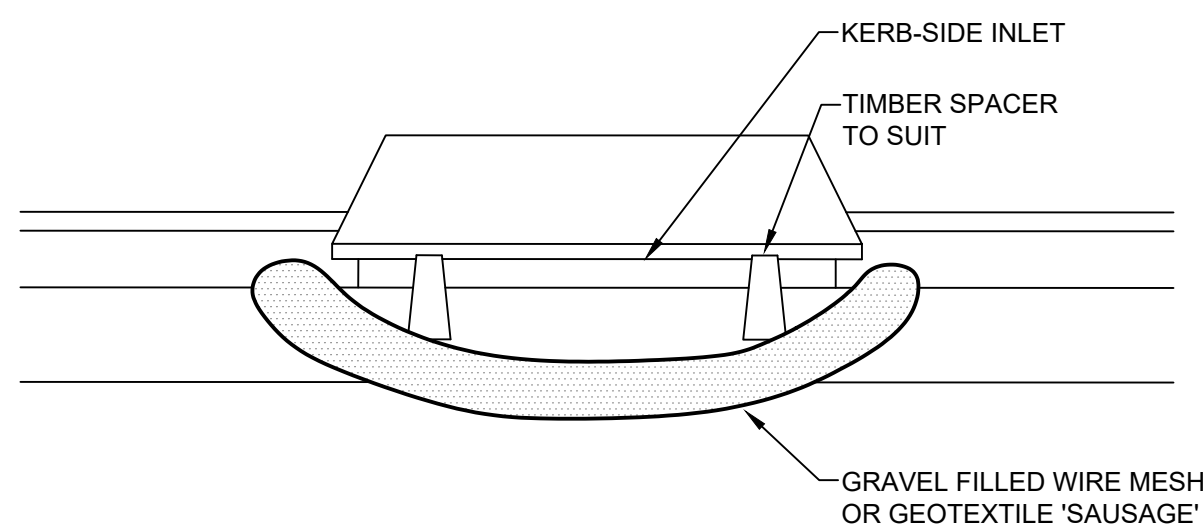
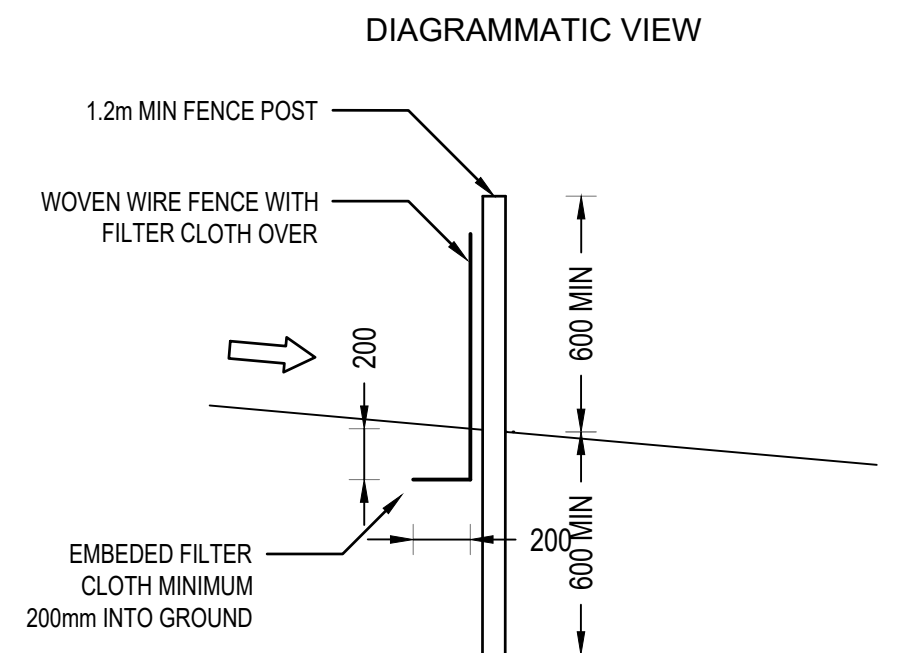
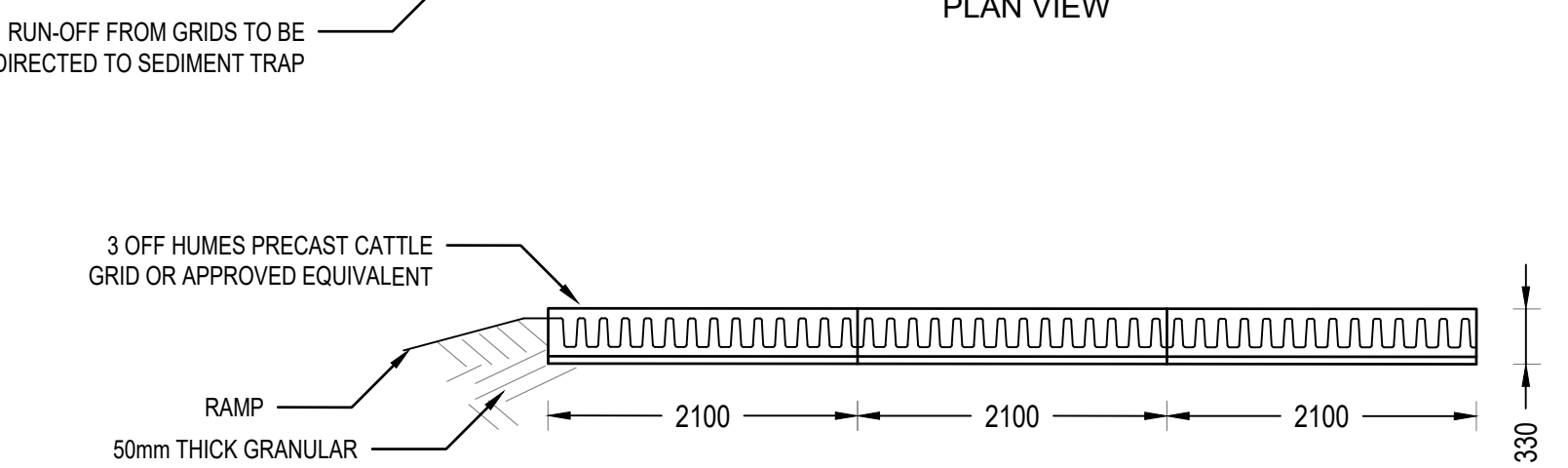
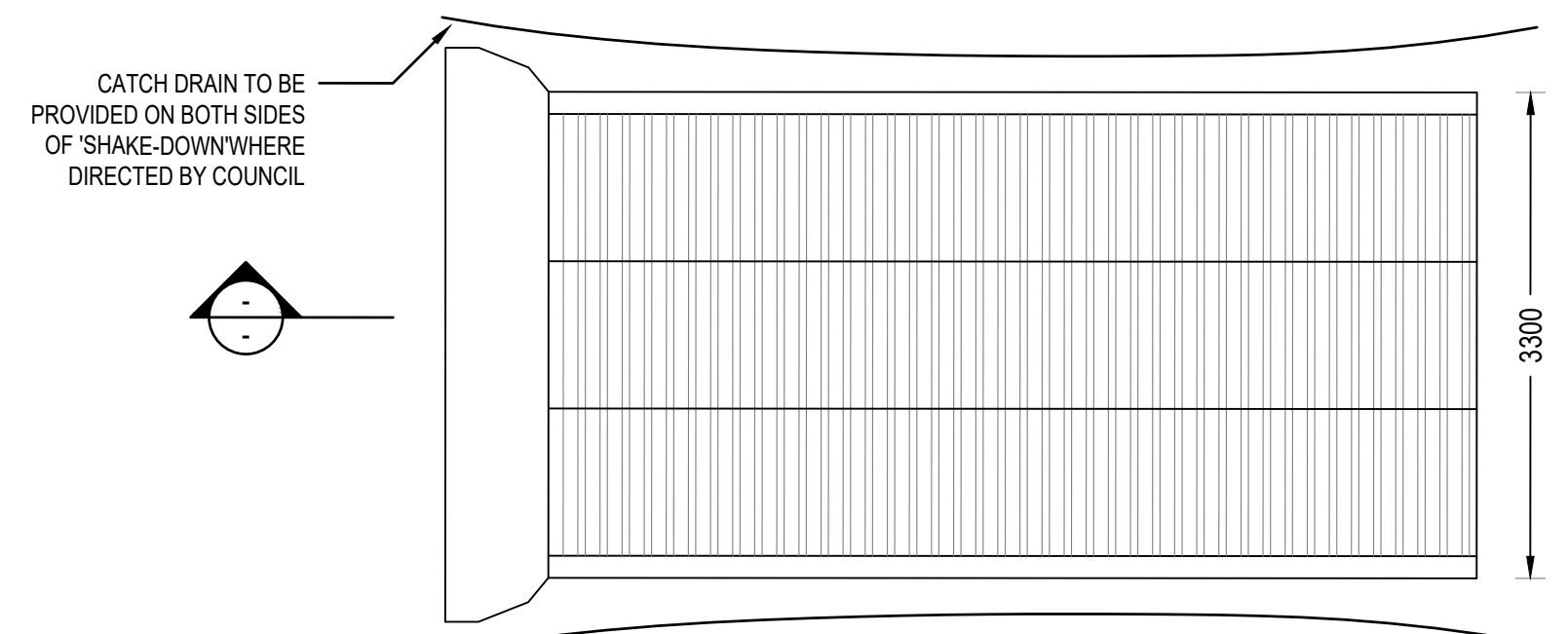


Diagram illustrating a woven wire fence structure with a filter cloth. The fence is supported by 1.2 MIN FRP POST DRIVEN 600mm MIN INTO GROUND. The distance between posts is 3.0m MAX CENTRE TO CENTRE. The height of the filter is 600mm MAX. The woven wire fence has a 14.5 MINIMUM GAUGE - MAXIMUM 150mm MESH SPACING AS REQUIRED BY COUNCIL.

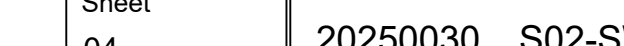
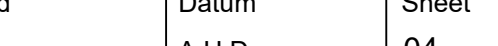


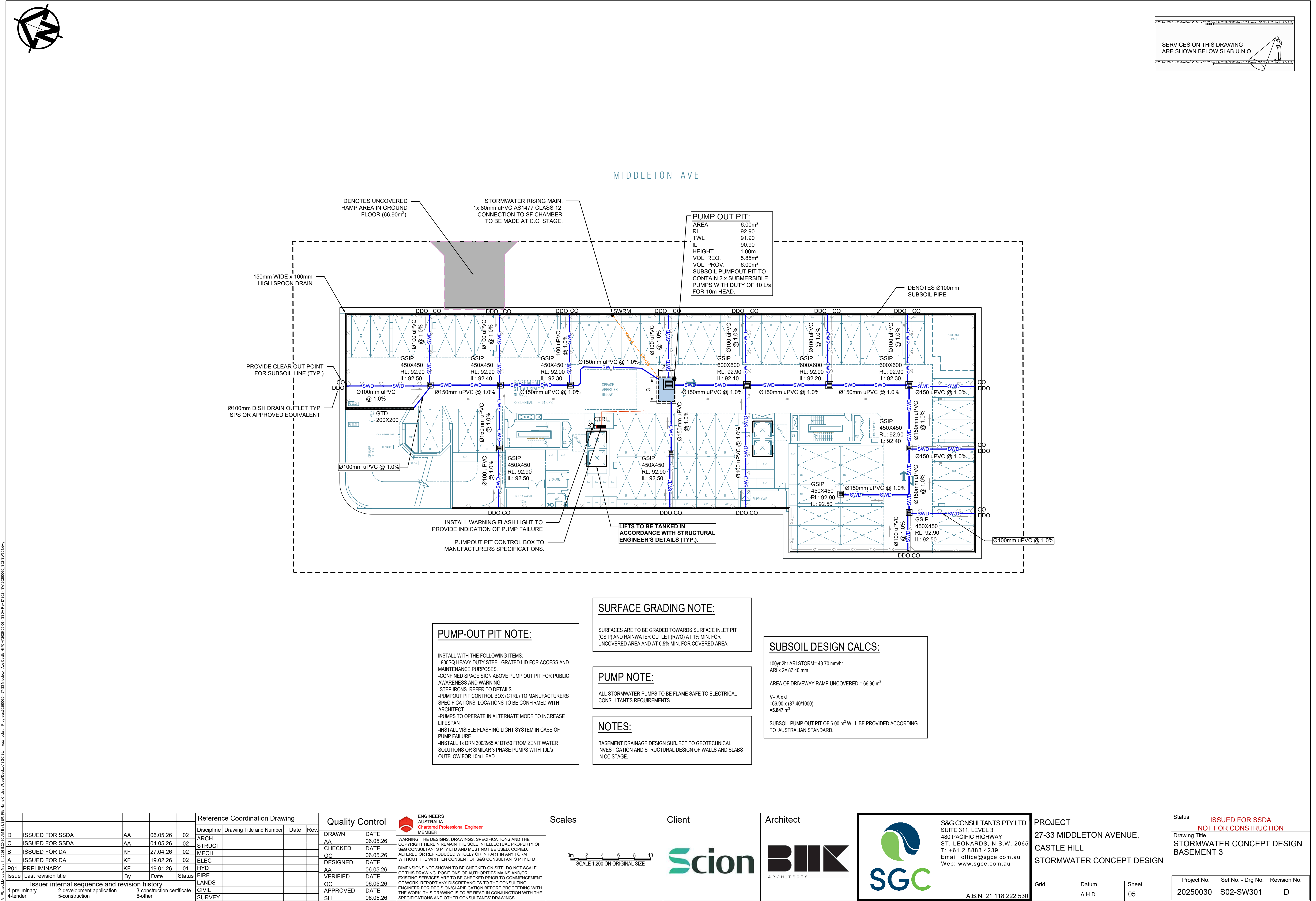
SEDIMENT FENCE
NOT TO SCALE

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

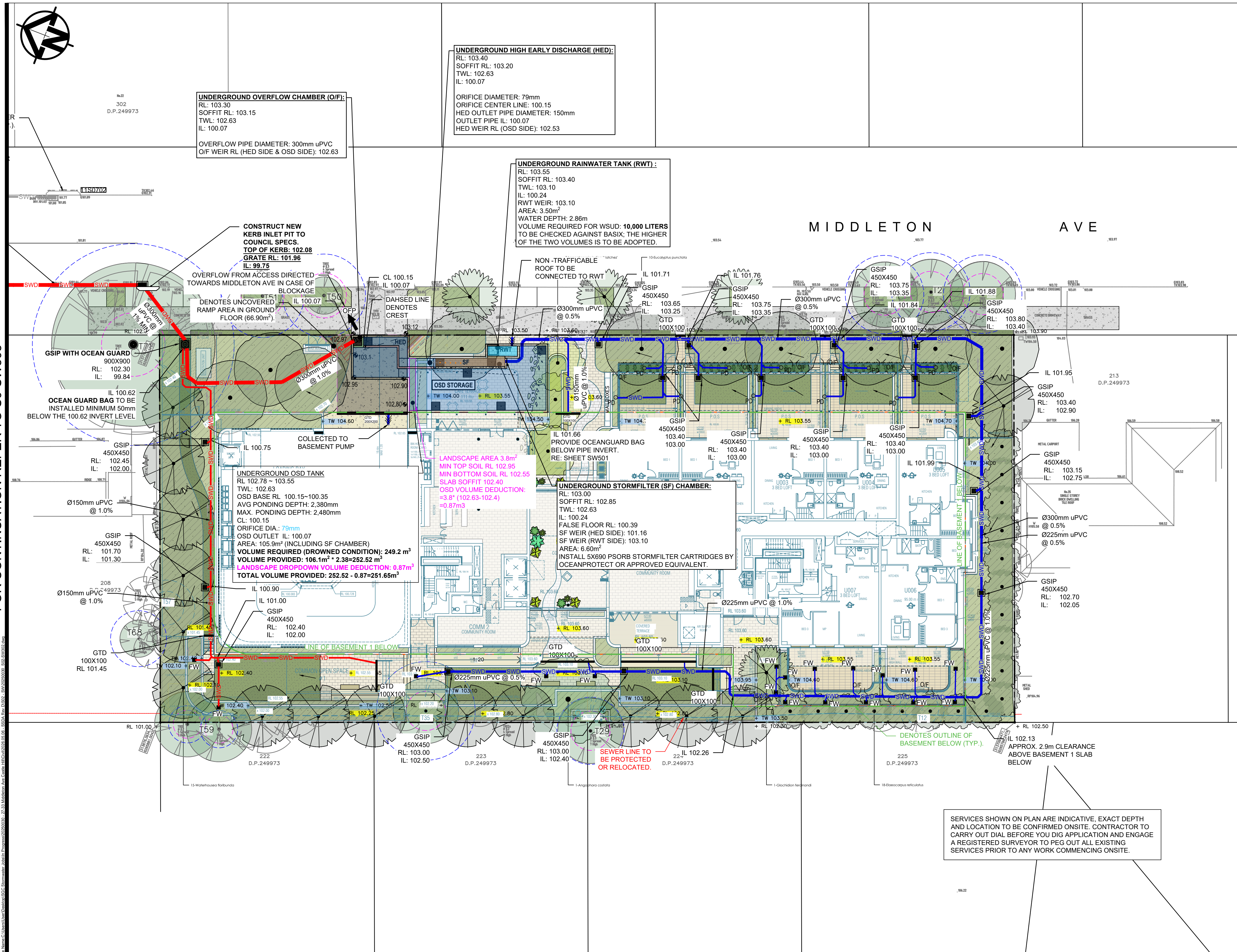


TYPICAL SECTION
'CATTLE GRID' ALTERNATIVE
TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

										Reference Coordination Drawing				Quality Control				Scales				Client		Architect		 S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530				PROJECT 27-33 MIDDLETON AVENUE, CASTLE HILL STORMWATER CONCEPT DESIGN				Status ISSUED FOR SSDA NOT FOR CONSTRUCTION			
										Discipline Drawing Title and Number Date Rev.				DRAWN DATE AA 06.05.26 CHECKED DATE OC 06.05.26 DESIGNED DATE AA 06.05.26 VERIFIED DATE OC 06.05.26 APPROVED DATE SH 06.05.26				WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANT DRAWINGS.								Grid Datum Sheet - A.H.D. 04				Project No. Set No. - Drg No. Revision No. 20250030 S02-SW202 D							
Issuer internal sequence and revision history 1-preliminary 4-developer 5-development application 3-construction certificate 6-other																																					



FOR CONTINUATION REFER TO S0-SW303



DESIGN NOTES & CALCULATIONS:

THE PROPOSED DEVELOPMENT IS LOCATED WITHIN THE HILLS LOCAL GOVERNMENT AREA (LGA).

- SITE AREA = 3791 m²

ON-SITE DETENTION SYSTEM (OSD):

AN OSD SYSTEM IS REQUIRED FOR THIS JOB AND IS DESIGNED ACCORDING TO COUNCIL O.S.D. CHECK SHEET (SHEET S01-SW402). THE OSD CATCHMENT PLAN IS SHOWN IN SHEET S01-SW401.

OSD REQUIREMENTS FOR AN AVERAGE SLOPE OF 4% (SHEET S01-SW402):

SSR = 396 m³/ha
PSD = 92 L/s/ha

REQUIRED OSD VOLUME (DROWNED ORIFICE): 244.20 m³
CONTROLLED DISCHARGE: 19.8 L/s

WATER SENSITIVE URBAN DESIGN (WSUD):

WSUD IS REQUIRED TO ACHIEVE THE FOLLOWING TARGETS:

- 85% REDUCTION IN TOTAL SUSPENDED SOLIDS (TSS)
- 65% REDUCTION IN TOTAL PHOSPHOROUS (TP)
- 45% REDUCTION IN TOTAL NITROGEN (TN)

A MUSIC MODEL WAS DEVELOPED (SHEET S01-SW502) AND IT CONSISTS OF THE FOLLOWING:

- RAINWATER TANK IS PROPOSED TO MEET BASIX REQUIREMENTS.
- OCEANGUARD BASKETS ARE PROPOSED TO COLLECT AND REMOVE LITTER (SHEET S01-SW502).
- STORMFILTER CHAMBER WITH CARTRIDGES IS PROPOSED TO REMOVE SUSPENDED MATERIALS.

THE MUSIC CATCHMENT PLAN IS SHOWN IN SHEET S01-SW501.

NOTES:

- ALL SERVICES INTERFERING WITH STORMWATER ASSETS TO BE PROTECTED OR RELOCATED.

Reference Coordination Drawing					Quality Control			
Discipline	Drawing Title and Number	Date	Rev.		DRAWN	DATE	CHECKED	DATE
AA	06.05.26	02			AA	06.05.26	OC	06.05.26
ARCH	04.05.26	02			OC	06.05.26	DESIGNED	DATE
STRUCT	27.04.26	02			AA	06.05.26	VERIFIED	DATE
MECH	19.02.26	02			OC	06.05.26	APPROVED	DATE
ELEC	19.01.26	01			SH	06.05.26		
HYD								
FIRE								
LANDS								
CIVIL								
SURVEY								

Quality Control				Scales			
DRAWN	DATE	AA	06.05.26	0m	2	4	6
CHECKED	DATE	OC	06.05.26	8	10		
DESIGNED	DATE	AA	06.05.26	SCALE 1:200 ON ORIGINAL SIZE			
VERIFIED	DATE	OC	06.05.26				
APPROVED	DATE	SH	06.05.26				

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

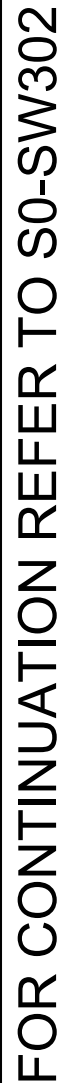
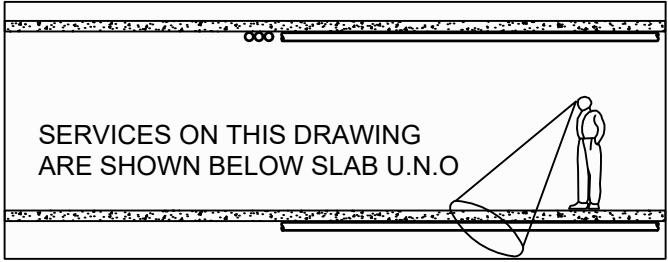
Client	
Scion	

Architect	
BHK	ARCHITECTS

Architect	
SGC	

PROJECT	
27-33 MIDDLETON AVENUE, CASTLE HILL STORMWATER CONCEPT DESIGN	

Status	
ISSUED FOR SSDA NOT FOR CONSTRUCTION	



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- SITE AREA = 3791 m²

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2. OCEANGUARD BASKETS ARE PROPOSED TO COLLECT AND REMOVE LITTER (SHEET S01-SW502).
3. STORMFILTER CHAMBER WITH CARTRIDGES IS PROPOSED TO REMOVE SUSPENDED MATERIALS.

THE MUSIC CATCHMENT PLAN IS SHOWN IN SHEET S01-SW501.

NOTES:

1. ALL SERVICES INTERFERING WITH STORMWATER ASSETS TO BE PROTECTED OR RELOCATED.

					Reference Coordination Drawing			
					Discipline	Drawing Title and Number	Date	Rev.
D	ISSUED FOR SSDA	AA	06.05.26	02	ARCH			
C	ISSUED FOR SSDA	AA	04.05.26	02	STRUCT			
B	ISSUED FOR DA	KF	27.04.26	02	MECH			
A	ISSUED FOR DA	KF	19.02.26	02	ELEC			
P01	PRELIMINARY	KF	19.01.26	01	HYD			
Issue	Last revision title	By	Date	Status	FIRE			
Issuer internal sequence and revision history						LANDS		
1-preliminary	2-development application	3-construction certificate				CIVIL		
4-tender	5-construction	6-other				SURVEY		

Quality Control	
DRAWN	DATE
AA	06.05.26
CHECKED	DATE
OC	06.05.26
DESIGNED	DATE
AA	06.05.26
VERIFIED	DATE
OC	06.05.26
APPROVED	DATE
SH	06.05.26

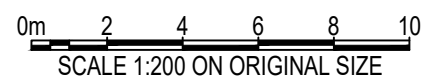


ENGINEERS
AUSTRALIA
Chartered Professional Engineer
MEMBER

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Scales



Client



Architect



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A.B.N. 21 118 222 530

PROJECT
27-33 MIDDLETON AVENUE,
CASTLE HILL
STORMWATER CONCEPT DESIGN

Grid	Datum	Sheet
-	A.H.D.	07

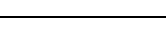
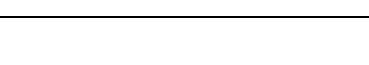
Status	ISSUED FOR SSDA NOT FOR CONSTRUCTION
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Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR
SHEET 02 OF 02

Project No.	Set No. - Drg No.	Revision No.
20250030	S02-SW303	D



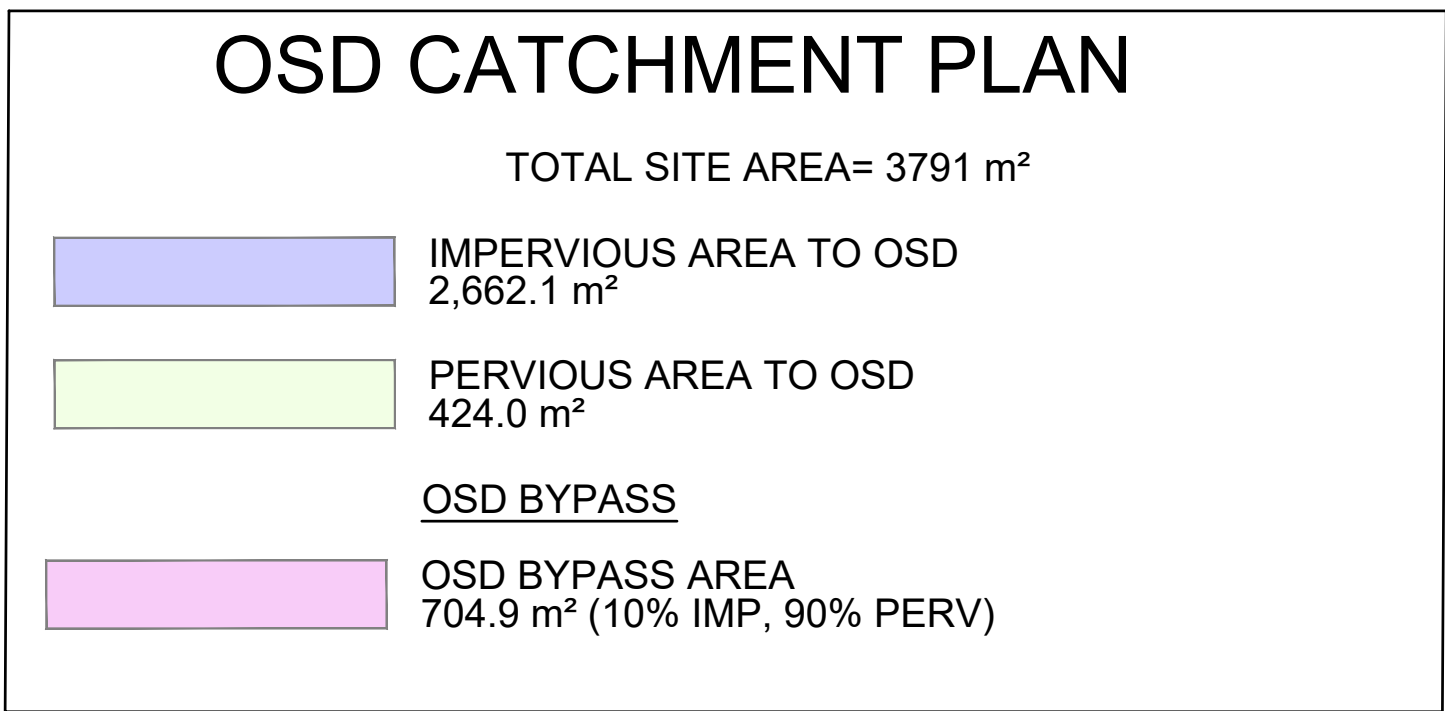
OSD CALCULATION SHEET

										Reference Coordination Drawing				Quality Control		 ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER		Scales  0m 0.1 0.2 0.3 0.4 0.5 SCALE 1:10 ON ORIGINAL SIZE  0m 0.2 0.4 0.6 0.8 1.0 SCALE 1:20 ON ORIGINAL SIZE		Client 		Architect  ARCHITECTS		 S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530		PROJECT 27-33 MIDDLETON AVENUE, CASTLE HILL STORMWATER CONCEPT DESIGN			Status ISSUED FOR SSDA NOT FOR CONSTRUCTION	
D	ISSUED FOR SSDA	AA	06.05.26	02	Discipline	Drawing Title and Number	Date	Rev.	DRAWN	DATE	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER DOCUMENTS.		Drawing Title STORMWATER CONCEPT DESIGN DETAILS SHEET 01 OF 02		Project No. Set No. - Drg No. Revision No. 20250030 S02-SW401 D															
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B	ISSUED FOR DA	KF	27.04.26	02	MECH				OC	06.05.26																				
A	ISSUED FOR DA	KF	19.02.26	02	ELEC				DESIGNED	DATE																				
P01	PRELIMINARY	KF	19.01.26	01	HYD				AA	06.05.26																				
Issue	Last revision title	By	Date	Status	FIRE				VERIFIED	DATE																				
Issuer Internal sequence and revision history										2-development application																				
1-preliminary										3-construction certificate																				
4-ender										CIVIL																				
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6-other																														
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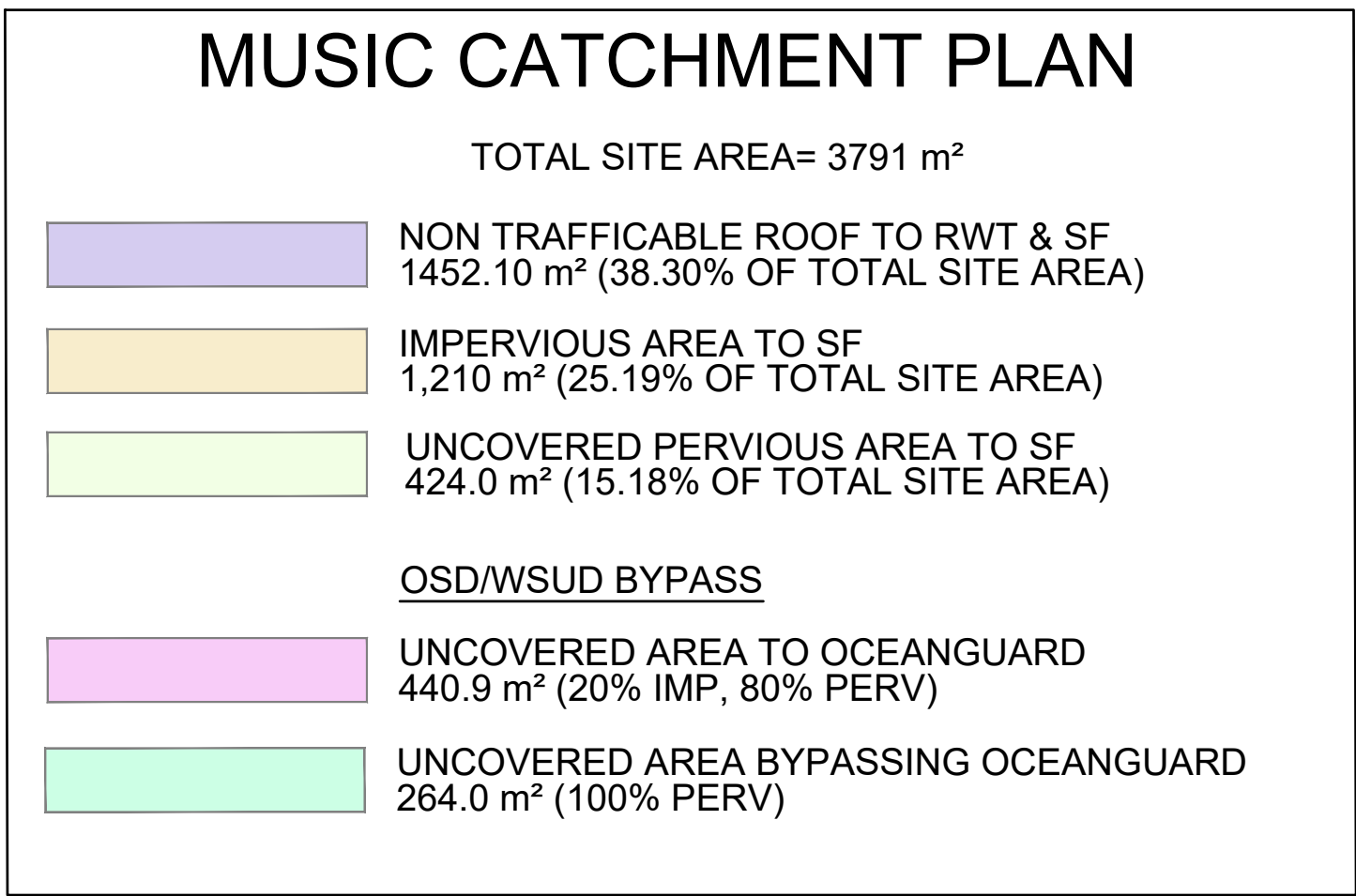


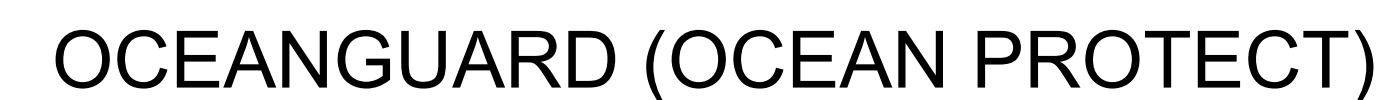
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Drawing Title	STORMWATER CONCEPT DESIGN DETAILS SHEET 02 OF 02		
Project No.	Set No. - Drg No.	Revision No.	
20250030	S02-SW402	D	

[illegible]



				Reference Coordination Drawing				ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER		Scales  SCALE 1:200 ON ORIGINAL SIZE		Client 		Architect  ARCHITECTS		S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530				PROJECT 27-33 MIDDLETON AVENUE, CASTLE HILL STORMWATER CONCEPT DESIGN OSD CATCHMENT PLAN				Status ISSUED FOR SSDA NOT FOR CONSTRUCTION	
D	ISSUED FOR SSDA	AA	06.05.26	02	Discipline	Drawing Title and Number	Date	Rev.	DRAWN	DATE	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MANS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.														
C	ISSUED FOR SSDA	AA	04.05.26	02	STRUCT				CHECKED	DATE															
B	ISSUED FOR DA	KF	27.04.26	02	MECH				DESIGNED	DATE															
A	ISSUED FOR DA	KF	19.02.26	02	ELEC				AA	06.05.26															
P01	PRELIMINARY	KF	19.01.26	01	HYD				VERIFIED	DATE															
Issue		Last revision title		By	Date	Status	FIRE		QC	06.05.26															
Issuer internal sequence and revision history					LANDS				APPROVED		DATE														
1-preliminary 2-development application 3-construction certificate 4-lender 5-construction 6-other					CIVIL SURVEY				SH		06.05.26														

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