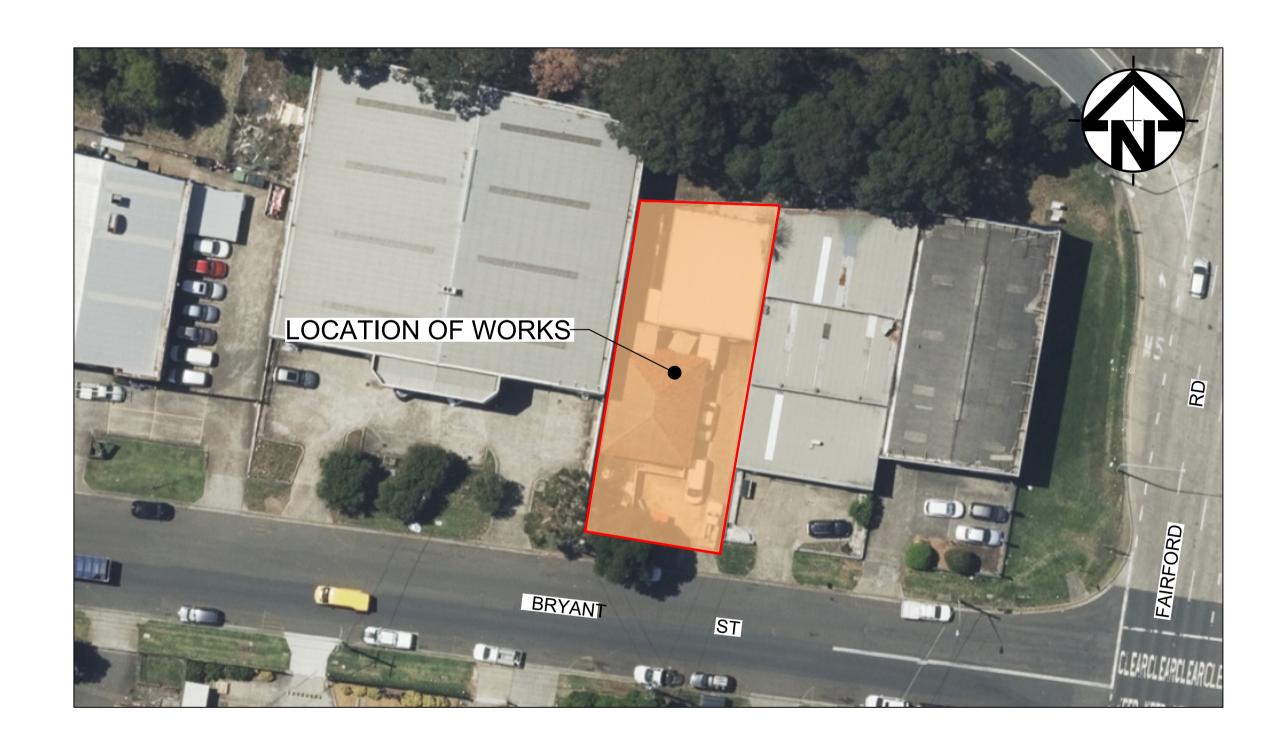
STORWATER DRAINAGE

PROPOSED WAREHOUSE 84 BRYANT STREET, PADSTOW



DRAWING REGISTER									
DRAWING NO.	DRAWING TITLE								
V250236 - SW000	COVER SHEET								
V250236 - SW001	GENERAL NOTES								
V250236 - SW100	STORMWATER DRAINAGE PLAN - BASEMENT								
V250236 - SW101	STORMWATER DRAINAGE PLAN - GROUND LEVEL								
V250236 - SW102	STORMWATER DRAINAGE PLAN - FIRST LEVEL								
V250236 - SW103	STORMWATER DRAINAGE PLAN - ROOF								
V250236 - SW200	DRAINAGE DETAILS								
V250236 - SW300	CATCHMENT PLAN								

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES

PROPOSED WAREHOUSE

84 BRYANT STREET, PADSTOW

REFERENCE NUMBER

V250236

LGA: CANTERBURY-BANKSTOWN COUNCIL

V250236 - SW000

DRAWING NUMBER

HEIGHT DATUM

LOCALITY PLAN NOT TO SCALE

RE	VISION	REVISION DETAILS	DATE	DRAWN	DESIGN	CHECK	APPROVED	PREPARED BY		ARCHITECT	CLIENT	SCALE	GRID
	Α	ISSUED FOR CDC	21.03.2025	T.N.	M.N.	D.S.	D.S.					NOT TO SCALE	HEIGH [*]
								VANGUA	RD CONSULTING ENGINEERS				DATUN
										#		DRAWING TITLE	
								E-MAIL: ADMIN@VCENG.COM.AU	OFFICE 3.07 LEVEL 3, 14-16, LEXINGTON DRIVE, BELLA VISTA, 2154	CAMPBELL HILL			
								TEL: (02) 9145 0253	WEB: WWW.VCENG.COM.AU	GROUP PTY LTD.		COVER SHE	= E
				1									

SITEWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES
- 2. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL GOVERNMENT AUTHORITIES ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS.
- PRIOR TO THE COMMENCEMENT OF THE WORKS THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO VANGUARD.
- PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR IS TO VERIFY THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS. CONNECT TO OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES. ANY DISCREPANCIES TO BE REPORTED TO VANGUARD.
- CONTRACTOR MUST MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL, REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH THE CURRENT AS 1289.5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
- PROVIDE 10mm WIDE ISOLATION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO THE CURRENT TFNSW SPECIFICATION TS 03283.1 (R116) HEAVY DUTY DENSE GRADED ASPHALT
- 10. ALL BASECOURSE AND SUB-BASE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH THE CURRENT TFNSW SPECIFICATION TS 03315.1 (3051) GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH THE CURRENT AS 1289
- FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED UNLESS OTHERWISED APPROVED BY VANGUARD.
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL (IN NOTE 10) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH THE CURRENT TFNSW SPECIFICATION TS 03315.1 (3051 GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF VANGUARD.
- 12. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM VANGUARD. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 13. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS. (EG. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
- 14. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN SERVICE EASEMENTS ARE TO COMPLY WITH THE RELEVANT SERVICE AUTHORITIES GUIDELINES AND REQUIREMENTS.

EXISTING UNDERGROUND SERVICES **NOTES**

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.



BEFORE YOU DIG AUSTRALIA SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

STORMWATER DRAINAGE NOTES

GENERAL NOTES

- 1. STORMWATER DESIGN CRITERIA: ANNUAL EXCEEDANCE PROBABILITY:
- MINOR STORM: 5% AEP MAJOR STORM: 1% AEP
- PIPES LESS THAN 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN DN300.
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT AS 3500 3.1 AND AS/NZS
- 3500 3.2. 5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE. GRADE 6 FOR A MIN OF 3.0m IN
- HEIGHT. ALL DRAINAGE LINES TO PROVIDE A 3.0M LENGTH OF DN100 SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, ON THE UPSTREAM SIDE OF EACH PIT. ALLOW FOR SECONDARY SUBSOIL FOR PIPES FOR PIPE
- GRATER THAN DN825. SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK SHALL BE PROVIDED BENEATH ALL KERBLINES WHERE NO DRAINAGE LINES ARE SHOWN ON THE DRAWINGS AND SHALL DISCHARGE INTO DOWNSTREAM
- PITS. 8. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPES ARE TO BE USED. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL FROM VANGUARD.
- 10. GRATES AND COVERS SHALL CONFORM TO THE CURRENT AS 3996. CLASS D COVER (MINIMUM) SHALL BE PROVIDED IN TRAFFICKED PAVEMENTS WITH CLASS B (MINIMUM) BEING PROVIDED IN NON-TRAFFICKED AREAS.
- 11. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY PROCEDURES TO PREVENT THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 12. ALL PITS AND PIPES TO BE FOUNDED ON SUITABLE MATERIAL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPa UP TO 3.0m DEPTH TO INVERT AND 150KPa FROM 3.0m TO 6.0m DEPTH TO INVERT ONCE EXCAVATED. A CONCRETE BLINDING LAYER (MINIMUM 100mm THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED) MAY BE PROVIDED. CONTRACTOR TO ENGAGE
- GEOTECHNICAL ENGINEER TO PROVIDE WRITTEN CONFIRMATION. 13. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
- 14. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS.
- 15. ALL PITS MUST BE BENCHED AND STREAMLINED TO DIRECT WATER FROM THE INLET PIPE TO THE OUTLET PIPE.
- PITS DEEPER THAN 600mm MUST BE FITTED WITH DOUBLE STEP-IRONS IN ACCORDANCE WITH THE CURRENT AS1657. PLASTIC ENCAPSULATED MAY BE USED. STEP-IRONS TO BE PROVIDED ON A SINGLE FACE WHERE POSSIBLE. SHOULD STEP-IRONS REQUIRE TO CHANGE FACE THEN 3
- OVERLAPPING STEP IRONS ARE TO BE LOCATED ON EACH FACE. 17. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN 1 TEST PER 2 LAYERS PER 40 LINEAR METERS.

RIGID & SEMI-RIGID PIPE NOTES

- 18. PIPES 300 DIA. AND LARGER TO BE STEEL REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O. EQUIVALENT STRENGTH FIBRE REINFORCED CONCRETE PIPES MAY BE USED SUBJECT TO APPROVAL BY VANGUARD OR THE LOCAL
- GOVERNMENT AUTHORITY. 19. REINFORCED CONCRETE PIPES TO COMPLY WITH THE CURRENT AS/NZS
- FIBRE REINFORCED CONCRETE PIPES TO COMPLY WITH THE CURRENT AS 4139.
- PIPES TO BE INSTALLED WITH TYPE HS3 (ROAD) AND HS2 (LOTS) SUPPORT IN ACCORDANCE WITH THE CURRENT AS/NZS 3725. N ALL CASES BACKFILL EMBEDMENT ZONE WITH SELECT FILL (MINIMUM CBR 15%) TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH THE CURRENT AS 1289.5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).

FLEXIBLE PIPE NOTES

20. FLEXIBLE PIPES TO COMPLY WITH THE CURRENT AS/NZS 2566.1. PIPES TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT AS/NZS 2566.2. IN ALL CASES BACKFILL EMBEDMENT ZONE WITH GRAVEL OR SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH THE CURRENT AS 1289.5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)

PRECAST CONCRETE PIT NOTES

- 21. PRECAST PIT MAY BE USED WITH THE APPROVAL OF VANGUARD THE SUPERINTENDENT AND THE LOCAL GOVERNMENT AUTHORITY AND SHALL BE INSTALLED TO THE MANUFACTURERS RECOMENDATIONS.
- 22. ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT REQUIREMENTS OF THE CURRENT AS3600 AND AS3996 (2019).
- 23. PRE-CAST STORMWATER PITS ARE TO BE APPROVED FOR TFNSW CONSTRUCTION (R11) AND ARE TO ARE TO BE DESIGNED AND CUSTOM MADE WITH OPENINGS UP TO A MAXIMUM +50mm OD OF THE STORMWATER PIPES. PITS ARE ALSO TO INCLUDE PENETRATIONS FOR SUBSOIL CONNECTIONS AND DOUBLE STEP-IRONS INSTALLED FOR PITS >0.6m DEEP. DEMOLITION SAWS MAY BE USED PROVIDING A NEAT FULL DEPTH CUT IS APPLIED AND ANY ADDITIONAL PENETRATIONS REQUIRED
- ARE TO BE CORE DRILLED. 24. SHOP DRAWINGS ARE TO BE PROVIDED FOR REVIEW AND ACCEPTANCE. IT SHOULD BE NOTED THAT THE CONTRACTOR IS TO ENSURE THAT THE STRUCTURAL COMPONENTS OF THE PITS ARE NOT COMPROMISED AND ONLY THE PIPE KNOCKOUTS ARE TO BE REMOVED FOR THE PIPE PENETRATIONS.

STORMWATER DRAINAGE NOTES (CONTINUED)

- ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER (100mm ON AN EARTH FOUNDATION OR 150mm ON A ROCK FORMATION) WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPa UP TO 3.0m DEPTH TO INVERT AND 150KPa FROM 3.0m TO 6.0m DEPTH TO INVERT (MINIMUM 100mm THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED). CONTRACTOR TO ENGAGE
- GEOTECHNICAL ENGINEER TO PROVIDE WRITTEN CONFIRMATION. ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL. ALL PIPE JOINTING, SPARGING, RENDERING, FILLING OF GAPS TO BE
- FILLED WITH A HIGH STRENGTH NON-SHRINK GROUT WITH A MINIMUM 40MPa COMPRESSIVE STRENGTH AT 28 DAYS. (LANKO DURABED 702 OR SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH

UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS

RECOMMENDATIONS. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED AT THE CONTRACTORS EXPENCE TO THE SATISFACTION OF THE VANGUARD, SUPERINTENDENT / LOCAL GOVERNMENT AUTHORITY.

600mm PIT INSTALLATION AND JOINTING BETWEEN UNITS SHALL BE

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. VANGUARD CONSULTING ENGINEERS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT VANGUARD CONSULTING ENGINEERS.

AS3500.3 MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

		MINIM	MINIMUM INTERNAL DIMENSIONS mm					
DEPTH TO OUT		RECTAN	CIRCULAR					
		WIDTH LENGTH		DIAMETER				
	≤ 600	450	450	600				
> 600	≤ 900	600	600	900				
> 900	≤ 1200	600	900	1000				
> 1200		900	900	1000				

AS3500.3 MINIMUM GRADIENT OF SITE STORMWATER DRAINS **NOMINAL NOMINAL** MINIMUM GRADIENT MINIMUM GRADIENT SIZE SIZE NZ DN ΑU ΝZ 1:100 1:90 1:200 1:350 1:100 1:120 300 1:250 1:350 1:100 1:200 375 1:300 1:350

AS3500.3 **TABLE 7.1: MINIMUM PIPE COVER** (FROM FINISHED SURFACE TO TOP OF PIPE) OTHER CAST IRON, DUCTILE AUTHORIZED(*) IRON, GALVANIZED STEEL PRODUCTS LOCATION MINIMUM COVER (millimeters) NOT SUBJECT TO VEHICULAR LOADING (A) WITHOUT PAVEMENT -(i) FOR SINGLE DWELLINGS 100 (ii) FOR OTHER THAN ITEM (i) 300 (B) WITH PAVEMENT OF BRICK OR NIL (†) 50 (†) UNREINFORCED CONCRETE SUBJECT TO VEHICULAR LOADING (A) OTHER THAN ROADS -(i) WITHOUT PAVEMENT 300 450 (ii) WITH PAVEMENT OF -(A) REINFORCED CONCRETE FOR HEAVY NIL (†‡) 100 (†‡) VEHICULAR LOADING (B) BRICK OR UNREINFORCED CONCRETE NIL (†‡) 75 (†‡) FOR LIGHT VEHICULAR LOADING (B) ROADS -(i) SEALED 300 500 (†‡) (ii) UNSEALED 500 (†‡) SUBJECT TO CONSTRUCTION EQUIPMENT LOADING 500 (†‡) 300 OR IN EMBANKMENT CONDITIONS

INCLUDE OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK. BELOW THE UNDERSIDE OF THE PAVEMENT.

SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS4060.

— OF —— >—	OVERFLOW LINE
- SWRM- SWRM-	STORMWATER RISING MAIN
——е—	EXISTING STORMWATER LINE
sw sw	AUTHORITY STORMWATER LINE
—— нь—— нь——	HIGH LEVEL STORMWATER LINE
s	AUTHORITY SEWER LINE
w	AUTHORITY WATER LINE
—— G—— G——	AUTHORITY GAS LINE
— — Е—	AUTHORITY ELECTRICITY LINE
— FO— FO— FO—	AUTHORITY FIBRE OPTIC LINE
TEL	AUTHORITY COMMS LINE
OH(E)	AUTHORITY OVERHEAD ELECTRICAL LINE
	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH OCEANGUARD BASKET
	JUNCTION PIT
	KERB INLET PIT
[00000000000000000000000000000000000000	GRATED TRENCH DRAIN
eTEL	EXISTING TELSTRA PIT
⊞ eHYD	EXISTING HYDRANT
⊠ eSV	EXISTING STOP VALVE
□ eGAS	EXISTING GAS VALVE
O ePP	EXISTING POWER POLE
eBT	EXISTING BOUNDARY TRAP
eSMH	EXISTING SEWER MANHOLE
OFP 🔷	OVERLAND FLOW PATH
RWO∅	RAINWATER OUTLET

DOWNPIPE

STORMWATER LINE

ROOF WATER LINE

SUBSOIL DRAINAGE LINE

LEGEND

— SW —— > —

— RW —— >—

—— — SSD——

DP

CO Ø	CLEAR OUT POINT
DDO Ø	DISH DRAIN OUTLET
PD ∅	PLANTER DRAIN
3	CAPPING
FF ∅	FIRST FLUSH
RH 🖸	RAINHEAD
•	DOWNPIPE DROP
\bowtie	NON RETURN VALVE
<u> </u>	WALL PENETRATION
₹ SP	DOWNPIPE SPREADER
	WARNING LIGHT
\$80.00	SPOT LEVELS
Δ	BENCHMARK

ADDI	NEVIATIONS.
O DIA O DE	DIAMETER CALIFORNIA BEARING RATIO CHAINAGE CENTER LINE CLEAR OUT DISH DRAIN DISH DRAIN OUTLET DOWELLED EXPANSION JOINT DENSE GRADED BASECOURSE DENSE GRADED SUB-BASE DOWNPIPE EXISTING FINISHED FLOOR LEVEL GRATED TRENCH DRAIN GRATED SURFACE INLET PIT ISOLATING JOINT INTEGRAL KERB INVERT LEVEL INTERSECTION POINT KERB INLET PIT KERB ONLY KERB & GUTTER KERB RETURN NATURAL GROUND LEVEL OVERLAND FLOW PATH ON-SITE DETENTION RADIUS REINFORCED CONCRETE PIPE ROLL KERB & GUTTER REDUCED LEVEL RETAINING WALL RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SWRM	STORMWATER RISING MAIN
TOK	TOP OF KERB
TOW	TOP OF WALL

TOP WATER LEVEL

UNLESS NOTED OTHERWISE

WEAKENED PLANE JOINT

FIRST FLUSH DEVICE

TANGENT POINT

TYPICAL

BENCH MARK

TWL

UNO

WPJ

FF

TYP

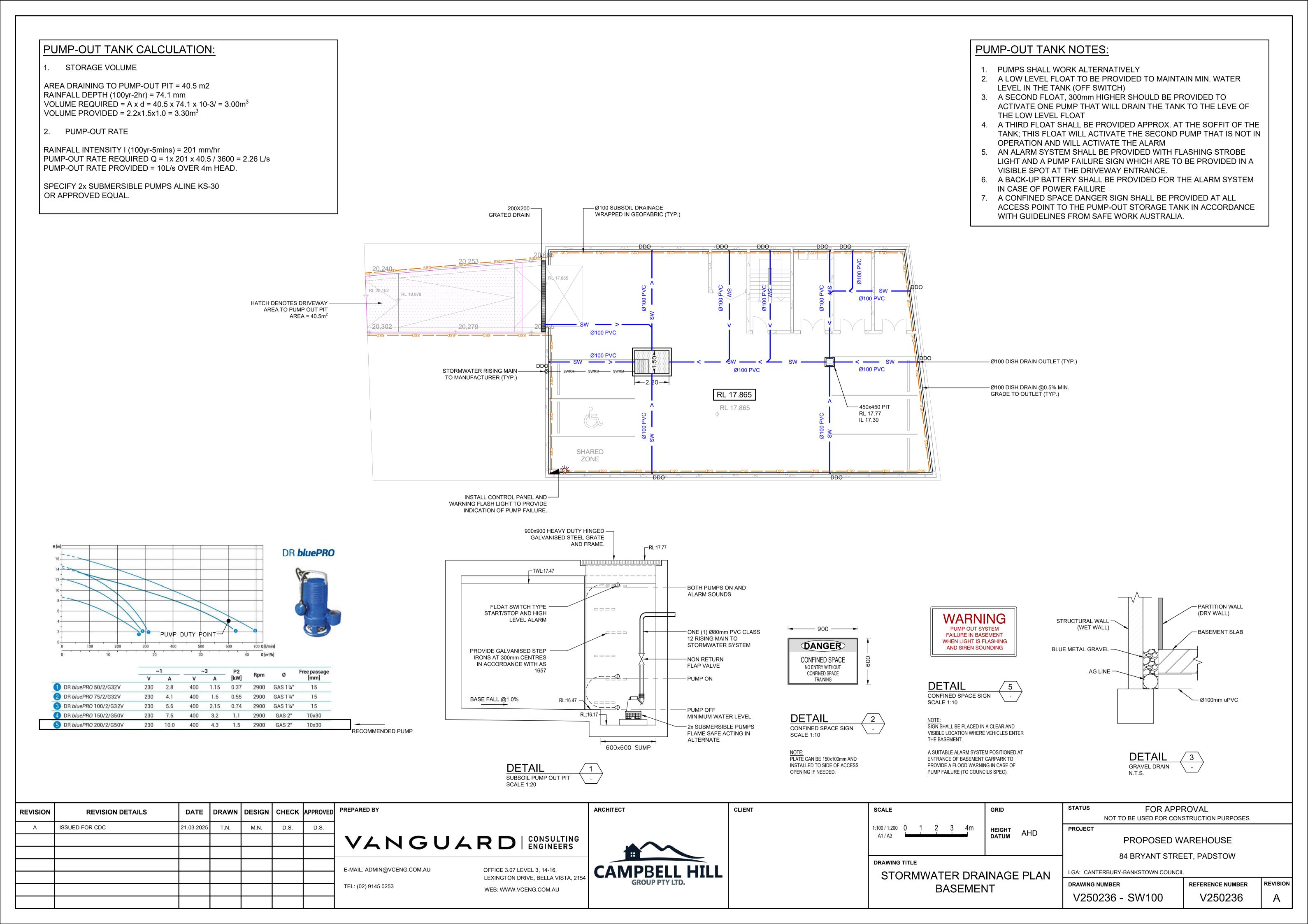
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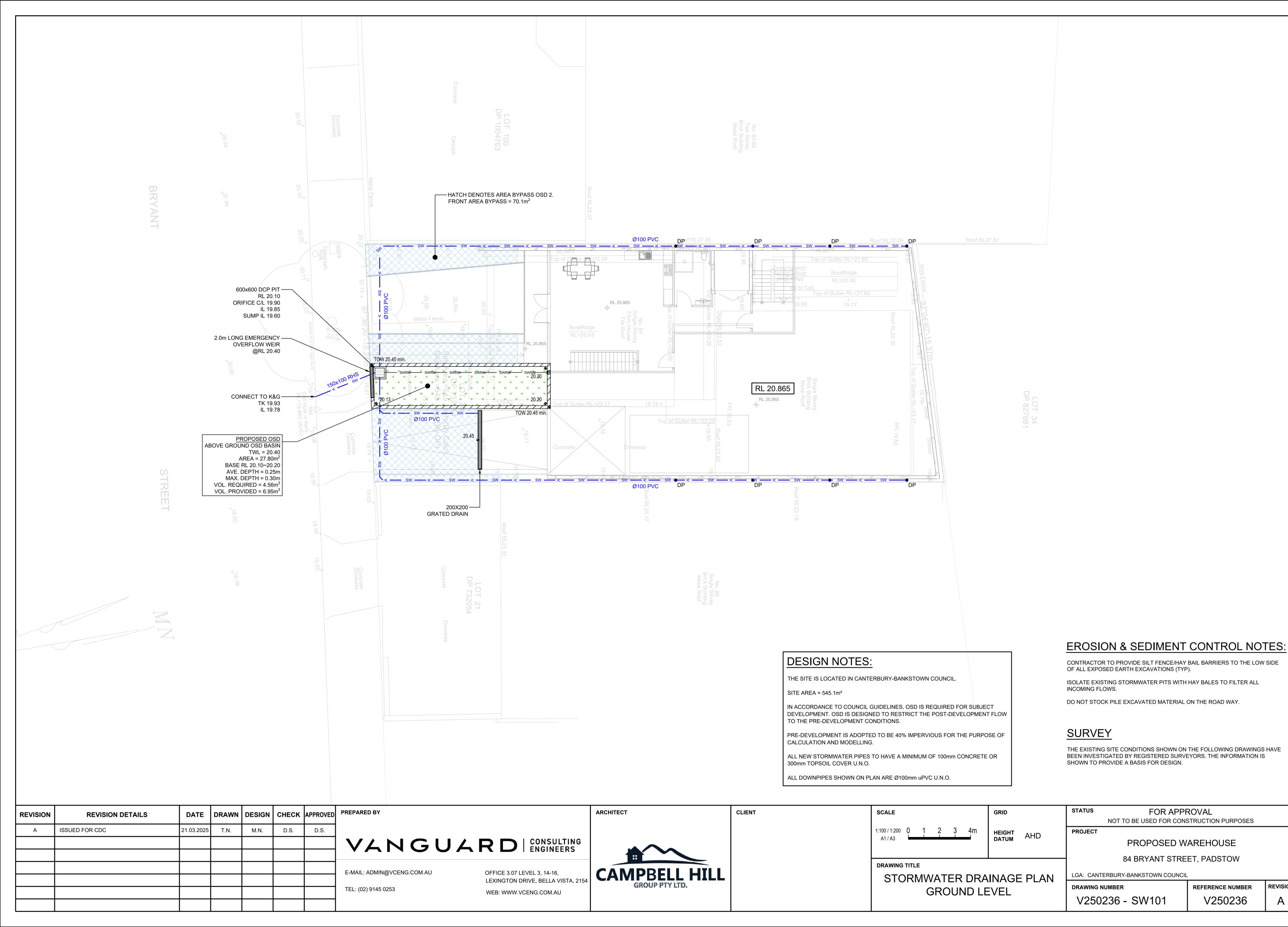
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	PROPOSED	EXISTING	FUTURE	TEMPORARY
STORMWATER PIPELINE		000000	000000	
STORMWATER DRAINAGEG PITS				
CONCRETE HEADWALL				
DRAINAGE LABEL	(A.05)	(A.05)	(A.05)	(A.05)
CATCH DRAIN	→→	$\rightarrow \rightarrow \rightarrow -$	$\rightarrow \rightarrow \rightarrow -$	$\rightarrow \rightarrow \rightarrow -$

REVISION	REVISION DETAILS	DATE DRAWN DESIGN CHECK APPROVED	PREPARED BY		ARCHITECT	CLIENT	SCALE	GRID	NOT TO BE USED FOR CO	
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			TEL: (02) 9145 0253	WEB: WWW.VCENG.COM.AU	GROUP PTY LTD.		GENERAL N	OTES	DRAWING NUMBER	REFERENCE NUMBER
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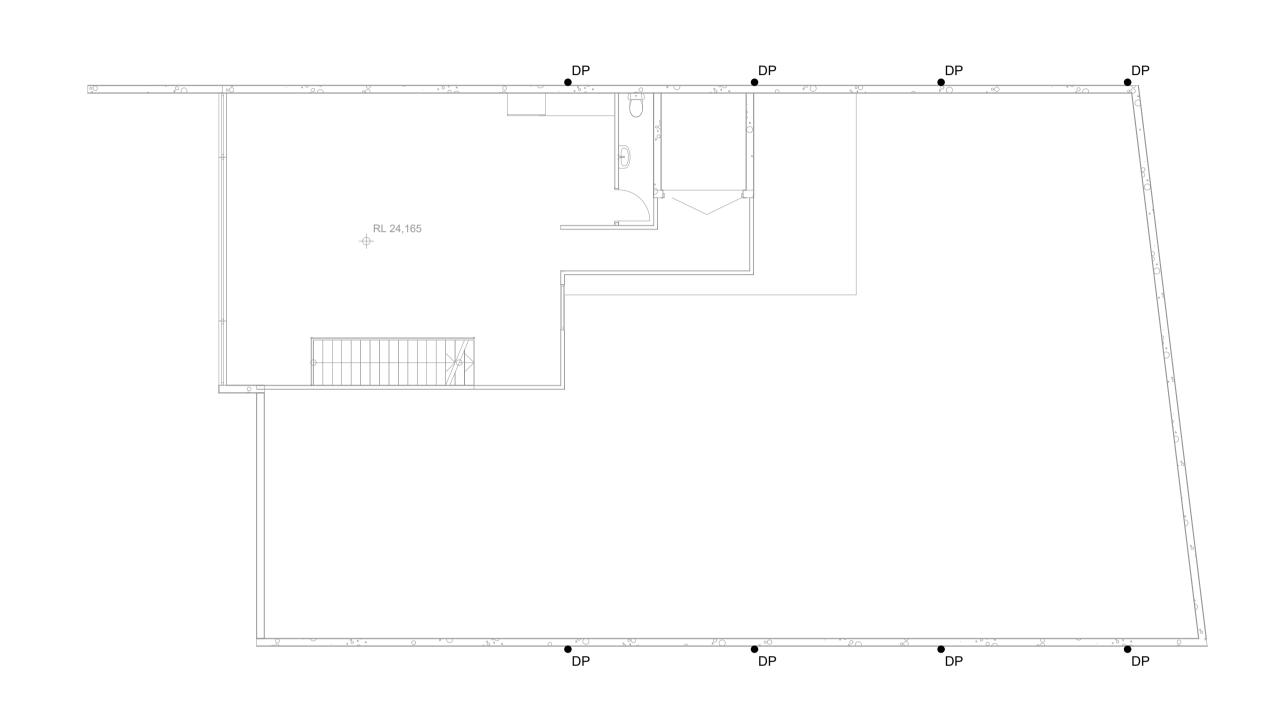
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REFERENCE NUMBER

V250236



REVISION	REVISION DETAILS	DATE	DRAWN	DESIGN	CHECK	APPROVED	PREPARED BY
А	ISSUED FOR CDC	21.03.2025	T.N.	M.N.	D.S.	D.S.	
							VA
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							E-MAIL: ADMIN@
							TEL: (02) 9145 02

VANGUARD | CONSULTING ENGINEERS E-MAIL: ADMIN@VCENG.COM.AU OFFICE 3.07 LEVEL 3, 14-16, LEXINGTON DRIVE, BELLA VISTA, 2154

WEB: WWW.VCENG.COM.AU

TEL: (02) 9145 0253



ARCHITECT

CLIENT

HEIGHT AHD DRAWING TITLE STORMWATER DRAINAGE PLAN FIRST LEVEL

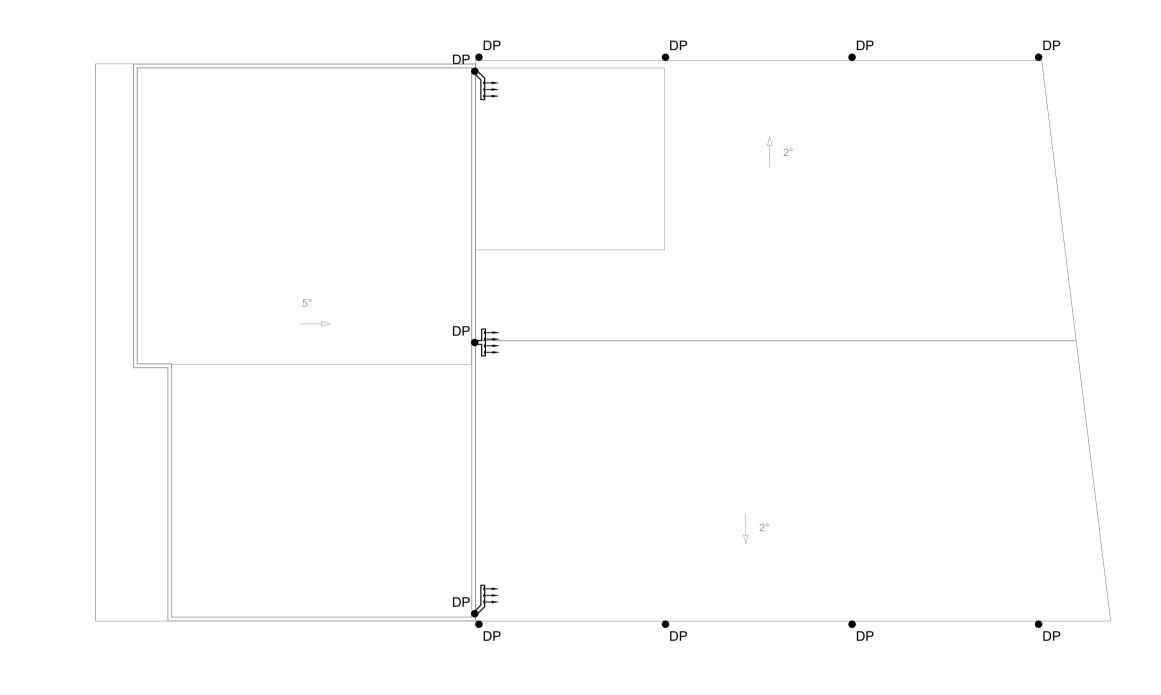
SCALE

FOR APPROVAL STATUS NOT TO BE USED FOR CONSTRUCTION PURPOSES PROPOSED WAREHOUSE 84 BRYANT STREET, PADSTOW

LGA: CANTERBURY-BANKSTOWN COUNCIL

REFERENCE NUMBER **DRAWING NUMBER** V250236 V250236 - SW102

REVISION



REVISION	REVISION DETAILS	DATE	DRAWN	DESIGN	CHECK	APPROVED
Α	ISSUED FOR CDC	21.03.2025	T.N.	M.N.	D.S.	D.S.

VANGUARD | CONSULTING ENGINEERS E-MAIL: ADMIN@VCENG.COM.AU OFFICE 3.07 LEVEL 3, 14-16, LEXINGTON DRIVE, BELLA VISTA, 2154

TEL: (02) 9145 0253



ARCHITECT

HEIGHT AHD DRAWING TITLE STORMWATER DRAINAGE PLAN ROOF

SCALE

NOT TO BE USED FOR CONSTRUCTION PURPOSES PROPOSED WAREHOUSE 84 BRYANT STREET, PADSTOW LGA: CANTERBURY-BANKSTOWN COUNCIL

FOR APPROVAL

REVISION

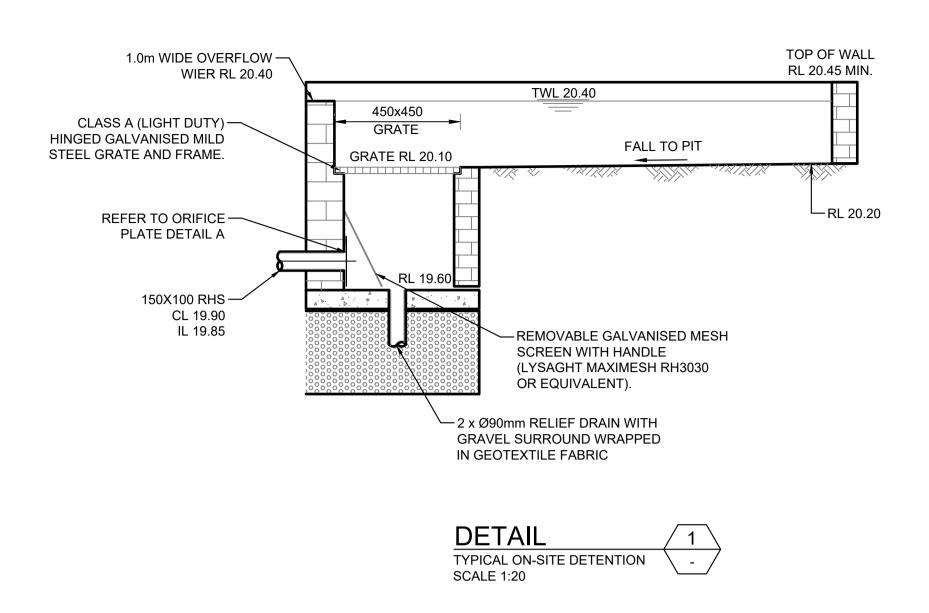
V250236

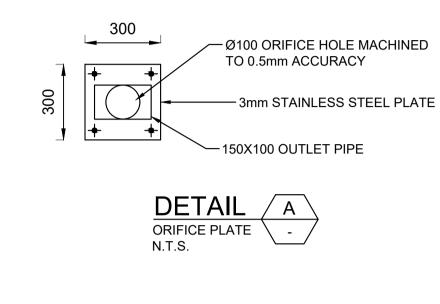
STATUS

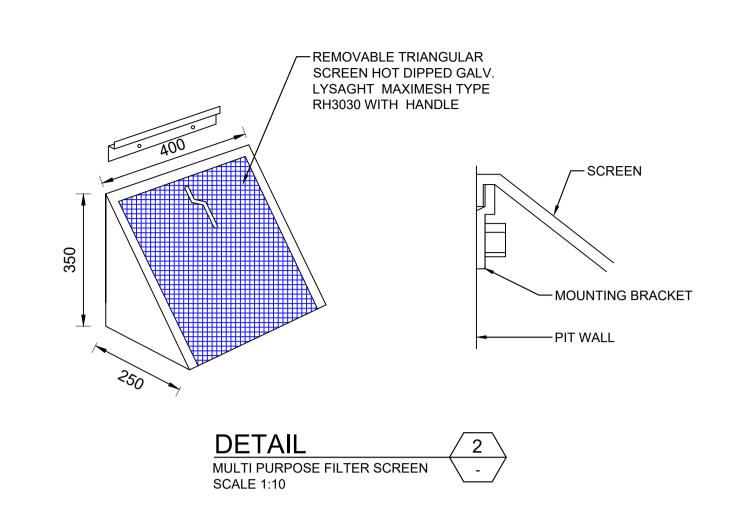
REFERENCE NUMBER **DRAWING NUMBER** V250236 - SW103

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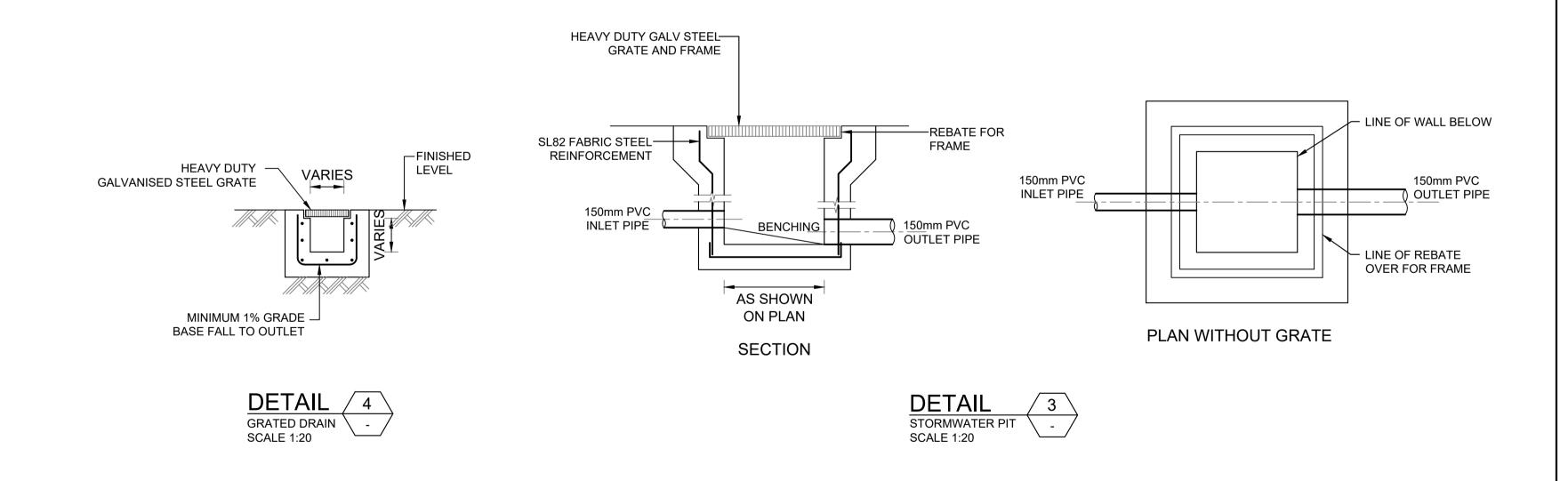
CLIENT



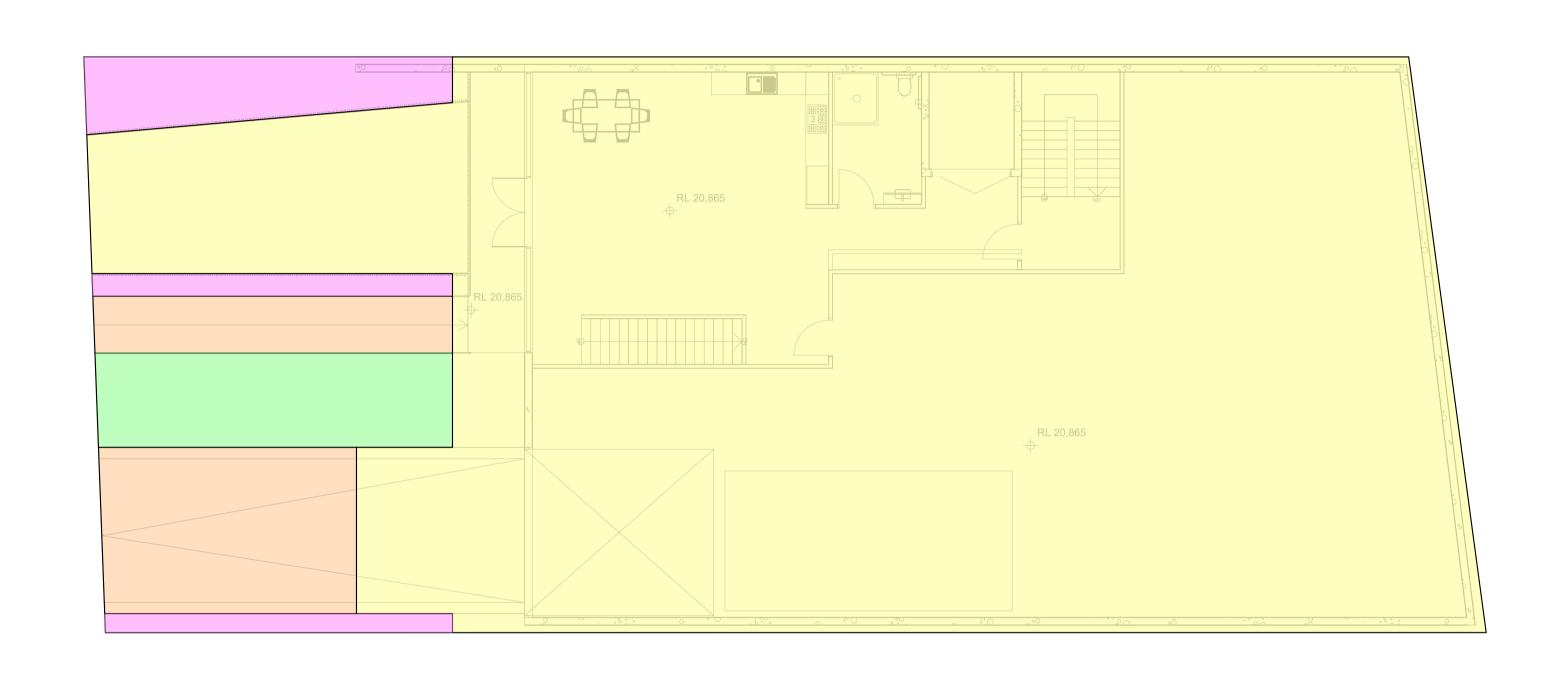




PSD PRE/POST CALCULATION										
STORM EVENT	PRE-DEV (L/s)	OSD DISCHARGE (L/s)	BYPASS (L/s)	TOTAL POST-DEV (L/s)						
20% AEP	13	11	2	13						
10% AEP	16	12	2	14						
5% AEP	19	12	3	15						
1% AEP	22	13	3	16						



REVISION	REVISION DETAILS	DATE	DRAWN DESIGN	CHECK	APPROVED	PREPARED BY	ARCHITECT	CLIENT	SCALE	GRID		PROVAL ONSTRUCTION PURPOSES	
A	ISSUED FOR CDC	21.03.2025	T.N. M.N.	D.S.	D.S.	VANGUARD CONSULTING ENGINEERS			1:100 / 1:200 0 1 2 3 4m A1 / A3	HEIGHT AHD		WAREHOUSE	
						E-MAIL: ADMIN@VCENG.COM.AU OFFICE 3.07 LEVEL 3, 14-16, LEXINGTON DRIVE, BELLA VISTA, 215	CAMPBELL HILL		DRAWING TITLE		LGA: CANTERBURY-BANKSTOWN COUN	REET, PADSTOW	
						TEL: (02) 9145 0253 WEB: WWW.VCENG.COM.AU	GROUP PTY LTD.		DRAINAGE DI	ETAILS	DRAWING NUMBER V250236 - SW200	reference number V250236	REVISION



OSD CATCHMENT PLAN SCALE 1:100

IMPERVIOUS AREA BYPASS OSD

PERVIOUS AREA BYPASS OSD

AREA 44.0m2

AREA 26.1m2

CLIENT

IMPERVIOUS AREA TO OSD

PERVIOUS AREA TO OSD

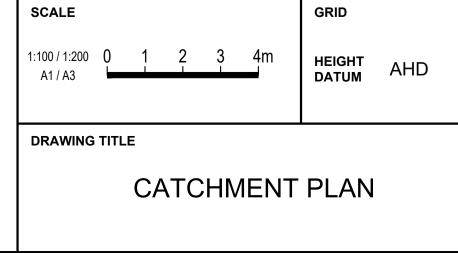
ARCHITECT

AREA 451.5m2

AREA 23.4m2

REVISIO	REVISION DETAILS	DATE	DRAWN	DESIGN	CHECK	APPROVED	THE AND DI	
А	ISSUED FOR CDC	21.03.2025	T.N.	M.N.	D.S.	D.S.		
							VANGUA	RD CONSULTING ENGINEERS
		<u> </u>					E-MAIL: ADMIN@VCENG.COM.AU	OFFICE 3.07 LEVEL 3, 14-16, LEXINGTON DRIVE, BELLA VISTA, 2154
							TEL: (02) 9145 0253	WEB: WWW.VCENG.COM.AU





FOR APPROVAL STATUS NOT TO BE USED FOR CONSTRUCTION PURPOSES **PROJECT** PROPOSED WAREHOUSE

84 BRYANT STREET, PADSTOW

LGA: CANTERBURY-BANKSTOWN COUNCIL

REFERENCE NUMBER REVISION DRAWING NUMBER V250236 V250236 - SW300