

STORMWATER MANAGEMENT PLANS

PROPOSED CHILDCARE

No. 110-112 DECCAN STREET, GOULBURN

LOT 62 DP:14352, LOT 63 DP:14352

DRAINAGE NOTES

PIPE SIZE:

THE MINIMUM PIPE SIZE SHALL BE:

- 90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR
- 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS ON THE PROPERTY

THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY OF 6.0 m/s DURING THE DESIGN STORM.

PIPE GRADE:

THE MINIMUM PIPE GRADE SHALL BE:

- 1.0% FOR PIPES LESS THAN 225mm DIA
- 0.5% FOR ALL LARGER PIPES

PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION; AND AT INTERVALS NOT EXCEEDING 3.0m

ANCHOR BLOCKS ARE DESIGNED ACCORDING TO *CLAUSE 7.9 OF AS3500.3:2021*

DEPTH OF COVER FOR PVC PIPES:

MINIMUM PIPE COVER SHALL BE AS FOLLOWS:

LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS
SUBJECT TO VEHICLE LOADING UNDER A SEALED ROAD	450mm WHERE NOT IN A ROAD 600mm
UNSEALED ROAD	750mm
PAVED DRIVEWAY	100mm PLUS DEPTH OF CONCRETE

SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION.

CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-2007 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY.

WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT LEAST 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST:

- 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE TRAFFIC;
- 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR
- 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC.

CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS:

SHALL BE CARRIED OUT IN ACCORDANCE WITH *SECTION 6.2.8 OF AS3500.3:2021*

ABOVE GROUND PIPEWORK:

SHALL BE CARRIED OUT IN ACCORDANCE WITH *SECTION 6 OF AS3500.3:2021*

PIT SIZES AND DESIGN:

DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 x 450
450mm TO 600mm	600 x 600
600mm TO 900mm	600 x 900
900mm TO 1500mm	900 x 900 (WITH STEP IRONS)
1500mm TO 2000mm	1200 x 1200 (WITH STEP IRONS)

ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PIT.

PITS GREATER THAN 600mm DEEP SHALL HAVE A MINIMUM ACCESS OPENING OF 600 x 600mm

THE GRATED COVERS OF PITS LARGER THAN 600 x 600mm ARE TO BE HINGED TO PREVENT THE GRATE FROM FALLING INTO THE PIT.

THE BASE OF THE DRAINAGE PITS SHOULD BE AT THE SAME LEVEL AS THE INVERT OF THE OUTLET PIPE. RAINWATER SHOULD NOT BE PERMITTED TO POND WITHIN THE STORMWATER SYSTEM

- TRENCH DRAINS:**
CONTINUOUS TRENCH DRAINS ARE TO BE OF WIDTH NOT LESS THAN 150mm AND DEPTH NOT LESS THAN 100mm. THE BARS OF THE GRATING ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW.

- STEP IRONS:**
PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS1657. FOR PITS GREATER THAN 6m OTHER MEANS OF ACCESS MUST BE PROVIDED.

- IN-SITU PITS:**
IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF *CLAUSE 7.5.5.1 OF AS3500.3:2021*. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE.

- GRATES:**
GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING.

CLASS	USE
A	EXTRA LIGHT DUTY
B	LIGHT DUTY
C	MEDIUM DUTY
D	HEAVY DUTY
E	EXTRA HEAVY DUTY
F	EXTRA HEAVY DUTY
G	EXTRA HEAVY DUTY

GENERAL NOTES

- FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2021 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
- ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS. THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS.
- ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL. ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS.
- ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL.
- THIS PLAN IS THE PROPERTY OF QUANTUM ENGINEERS AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM QUANTUM ENGINEERS.

PLAN NOTES

- ROOF DRAINAGE NOTE:** AS 3500 ROOF DRAINAGE REQUIRES EAVES GUTTERS TO BE SIZED FOR 20 YEAR 5 MIN. STORM = 205mm/hr. FOR EAVES GUTTERS, AS 3500.3:2021 THEN HAS THE FOLLOWING REQUIREMENTS:
 - FOR TYPICAL STANDARD QUAD GUTTER WITH $A_e = 6000mm^2$ AND GUTTER SLOPE 1:500 AND STEEPER. THIS REQUIRES ONE DOWNPIPE PER 30m² ROOF AREA.
 - DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm FOR GUTTERS SLOPE 1:500 AND STEEPER.
 - OVERFLOW METHOD TO FIGURE F.1 OF AS 3500.3:2021 IT IS THE RESPONSIBILITY OF THE PLUMBER AND / OR BUILDER TO COMPLY WITH THIS. THIS DRAWING SHOWS PRELIMINARY LOCATIONS / NUMBERS OF DOWNPIPES ONLY WHICH ARE TO BE VERIFIED BY BUILDER / PLUMBER
- TREE PRESERVATION:** IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF THOSE WORKS
- ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3:2021 AND SECTIONS 3.5, 3.7.7 AND APPENDIX G OF AS 3500.3:2021
- THIS DRAWING IS NOT TO BE USED FOR SET-OUT PURPOSES - REFER TO ARCHITECTURAL DRAWINGS
- LOCATION OF SURFACE STORMWATER GRATED INLET PITS MAY BE VARIED OR NEW PITS INSTALLED AT THE CONSTRUCTION STAGE PROVIDED DESIGN INTENT OF THIS DRAWING IS MAINTAINED

STORMWATER LEGEND

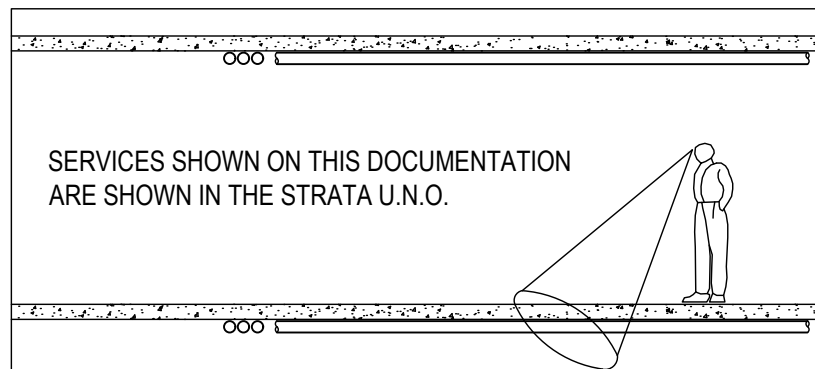
	SURFACE INLET PIT (SIP)		STORMWATER PIPE VIA GRAVITY 100mm DIA (MIN) U.N.O
	SURFACE INLET PIT (WITH 'OCEANGUARD')		STORMWATER PIPE TO RAINWATER TANK 100mm DIA (MIN) U.N.O
	GRATED TRENCH DRAIN MIN 150mm DEEP (U.N.O)		PRESSURE PIPE FROM PUMP-OUT TANK 65mm DIA (MIN) U.N.O
	LINEAR TRENCH DRAIN 100mm WIDE U.N.O		COUNCIL / EASEMENT DRAINAGE SYSTEM. REFER TO PLAN
	FLOOR WASTE		100mm DIA (MIN) U.N.O SLOTTED PVC WRAPPED IN GEOTEXTILE SLEEVE AT 1% (MIN)
	TERRACE GRATE		SURFACE FALL LINES 1% (MIN)
	PLANTER GRATE		INSPECTION RISER WITH SEALED CAP
	FLOOR DRAIN		PROPOSED DOWNPIPE 100mm DIA uPVC
	ABSORPTION/INFILTRATION TRENCH		INDICATES DOWNPIPE PENETRATING FLOOR SLAB
	ON-SITE DETENTION TANK (OSD)		INDICATES DOWNPIPE COMMENCING BELOW FLOOR SLAB
	RAINWATER RE-USE TANK (RWT)		INDICATES ROOF FALL DIRECTION
	PUMP-OUT STORAGE TANK		450 x 450 SQUARE INTERNAL PIT DIMENSIONS
	STORMFILTER CHAMBER/WATER QUALITY SYSTEM (REFER TO PLAN)		PIT GRATE SURFACE LEVEL = RL 20.00
			PIT INVERT LEVEL = RL 19.50

CONSULTANTS COORDINATION LEGEND

	MECHANICAL DUCT SYSTEM (REFER TO MECHANICAL ENGINEERS PLANS)
	STRUCTURAL SLAB TRANSITION (REFER TO STRUCTURAL ENGINEERS PLANS)
	STRUCTURAL SLAB/BEAM THICKNESS (REFER TO STRUCTURAL ENGINEERS PLANS)

UNDERGROUND SERVICES LEGEND

	UNDERGROUND ELECTRICITY CABLES	} APPROXIMATE POSITION ONLY VIA DIAL BEFORE YOU DIG PLANS. WHERE CRITICAL TO DESIGN UNDERGROUND SERVICES SHOULD BE LOCATED BY GROUND PENETRATING RADAR PRIOR TO DESIGN OR EXCAVATION.
	UNDERGROUND GASMAIN	
	UNDERGROUND NBN NETWORK CABLE	
	UNDERGROUND OPTUS CABLES	
	UNDERGROUND SEWERMAIN	
	UNDERGROUND TELSTRA COMMUNICATIONS CABLES	
	UNDERGROUND SYDNEY WATER LINE	

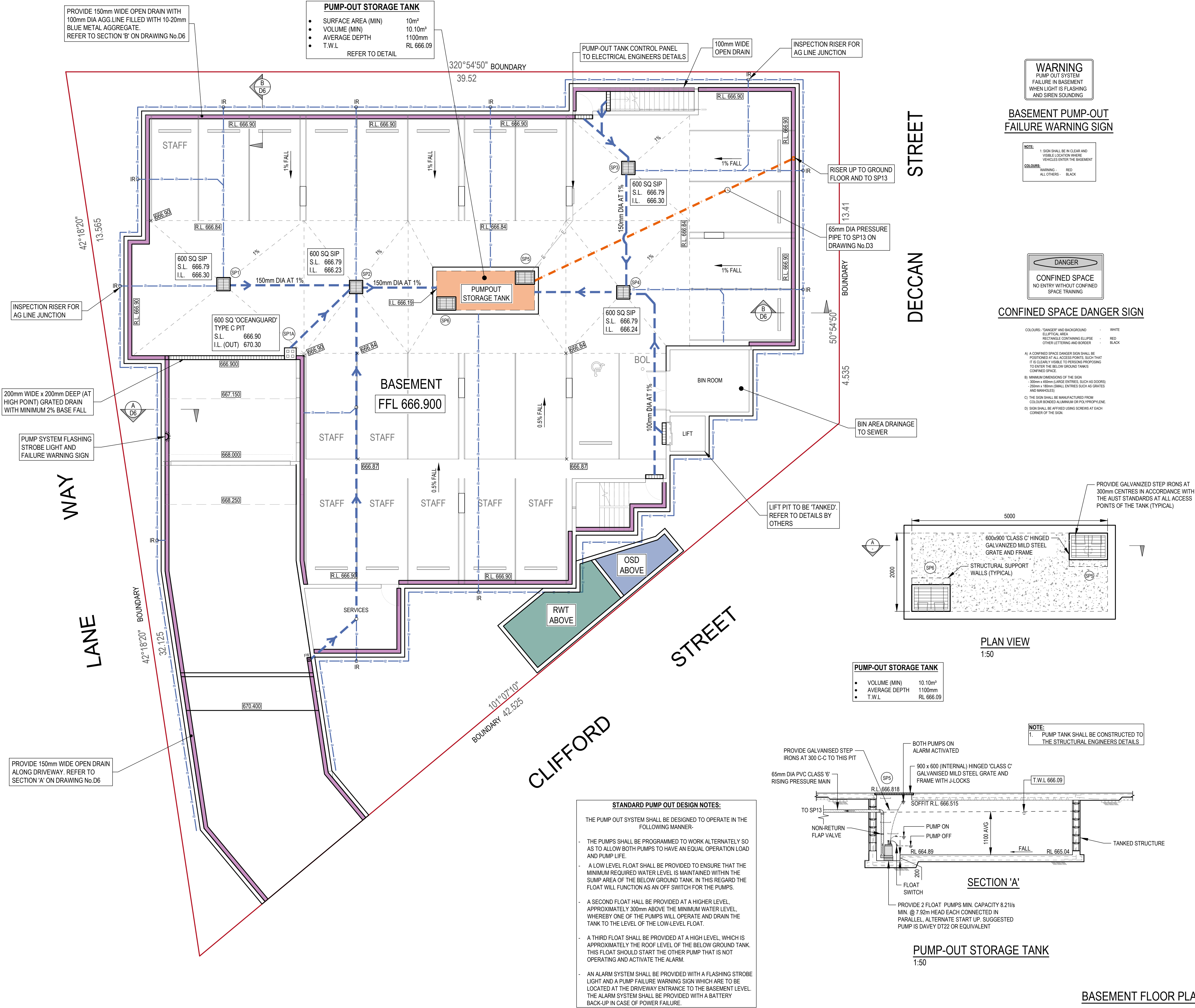


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						A	15.11.2024	ISSUED FOR COORDINATION	E.WONG		D.CHENG	9	240370_SW
						B	13.12.2024	ISSUED FOR DEVELOPMENT APPLICATION	E.WONG		SCALE - SIZE	REVISION	DRAWING No.
						C	23.12.2024	RE-ISSUED FOR DEVELOPMENT APPLICATION	D.CHENG			c	D1

PUMP SYSTEM DESIGN				
Project:	Proposed Childcare	Lot:	62 & 63	
Job No:	240370	DP:	14352	
Location:	No. 110-112 Deccan Street, GOULBURN			
Storage/Discharge Calculation:				
Area draining to Pump System =		115 m ²		
Additional allowance for water seepage =		120 m ²		
Total Area designed to cater		235 m ²		
Runoff coefficient =		0.9		
Note: Rainfall duration data for Goulburn				
Duration (min & hr)	Intensity 100yr ARI (mm/hr)	Discharge Rate (L/sec)	Volume (m ³)	
5	154.00	8.54	2.56	
6	148.00	8.21	2.96	
7	142.00	7.88	3.31	
8	136.00	7.55	3.62	
9	131.00	7.27	3.93	
10	125.00	6.94	4.16	
11	120.00	6.66	4.39	
12	116.00	6.44	4.63	
13	111.00	6.16	4.80	
14	107.00	5.94	4.99	
15	104.00	5.77	5.19	
16	100.00	5.55	5.33	
17	96.70	5.37	5.47	
18	93.60	5.19	5.61	
20	88.00	4.88	5.86	
25	76.50	4.24	6.37	
30	67.80	3.76	6.77	
35	61.00	3.38	7.11	
40	55.50	3.08	7.39	
45	51.10	2.84	7.66	
50	47.30	2.62	7.87	
55	44.20	2.45	8.09	
60	41.50	2.30	8.29	
75	35.40	1.96	8.84	
90	31.10	1.73	9.32	
2.0	25.50	1.41	10.19	
3.0	19.60	1.09	11.75	
4.0	16.50	0.92	13.18	

NOTE: ALL GRATED TRENCH DRAINS TO BE 100mm WIDE x 100mm DEEP (AT HIGH POINT) WITH MINIMUM 2% BASE FALL UNLESS NOTED

DRAINAGE PIPE LEGEND	
• DRAINAGE PIPES VIA GRAVITY (IN-GROUND)	---
• AGGREGATE LINE	---
• PRESSURE DRAINAGE PIPE (65mm)	---
NOTE: ALL PIPES TO BE 100mm DIA UNO	



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											AS NOTED - A1	C	D2

SITE AREA CALCULATIONS		
TOTAL SITE AREA	1193.0	m ²
EXISTING DEVELOPMENT		
BUILDING FOOTPRINT AREA	332.85	m ²
PAVED AREA	205.95	m ²
DRIVEWAY AREA	67.41	m ²
TOTAL IMPERVIOUS AREA	606.2	m ²
IMPERVIOUS AREA PERCENTAGE	50.8%	
PROPOSED DEVELOPMENT		
BUILDING FOOTPRINT AREA	786.56	m ²
PAVED AREA	30.4	m ²
DRIVEWAY AREA	123.38	m ²
TOTAL IMPERVIOUS AREA	940.3	m ²
INCREASE IN IMPERVIOUS AREA	334.1	m ²
TOTAL IMPERVIOUS AREA PERCENTAGE	78.8%	
AREA CALCULATIONS HAVE TAKEN INTO ACCOUNT THE REMOVED IMPERVIOUS AREA AS NOTED ON THE ARCHITECTURAL PLANS		

OSD WARRANT

COUNCIL: GOULBURN MULWAREE COUNCIL
REF: STORMWATER DRAINAGE DESIGN HANDBOOK SECTION 7 'ON-SITE STORMWATER DETENTION'

"THIS POLICY APPLIES TO ALL DEVELOPMENTS THAT DRAIN TO COUNCIL'S STORMWATER INFRASTRUCTURE"

PSD: AS ESTIMATED IN THE TABLE, 7 - SITE STORMWATER DETENTION, PERMISSIBLE SITE DISCHARGE (l/s/ha), PAGE 25 OF THE STORMWATER DRAINAGE DESIGN HANDBOOK(REVISED 2020)

SSR: THE SITE STORAGE REQUIREMENT FOR ON-SITE DETENTION SYSTEM IS GIVEN IN THE TABLE, 7 - SITE STORMWATER DETENTION, SITE STORAGE REQUIREMENT (cum/ha), PAGE 25 OF THE STORMWATER DRAINAGE DESIGN HANDBOOK(REVISED 2020)

THEREFORE, OSD IS REQUIRED

PERCENTAGE OF DEVELOPMENT AREA DRAINING TO OSD: 80%
PERCENTAGE IMPERVIOUS AREA: 78.9%

- PSD = 187 l/s/ha x 0.1193 ha = 22.31 L/s (100YR ARI)
- SSR = 168m³ x 0.1193 ha = 20.04 m³ (100YR ARI)

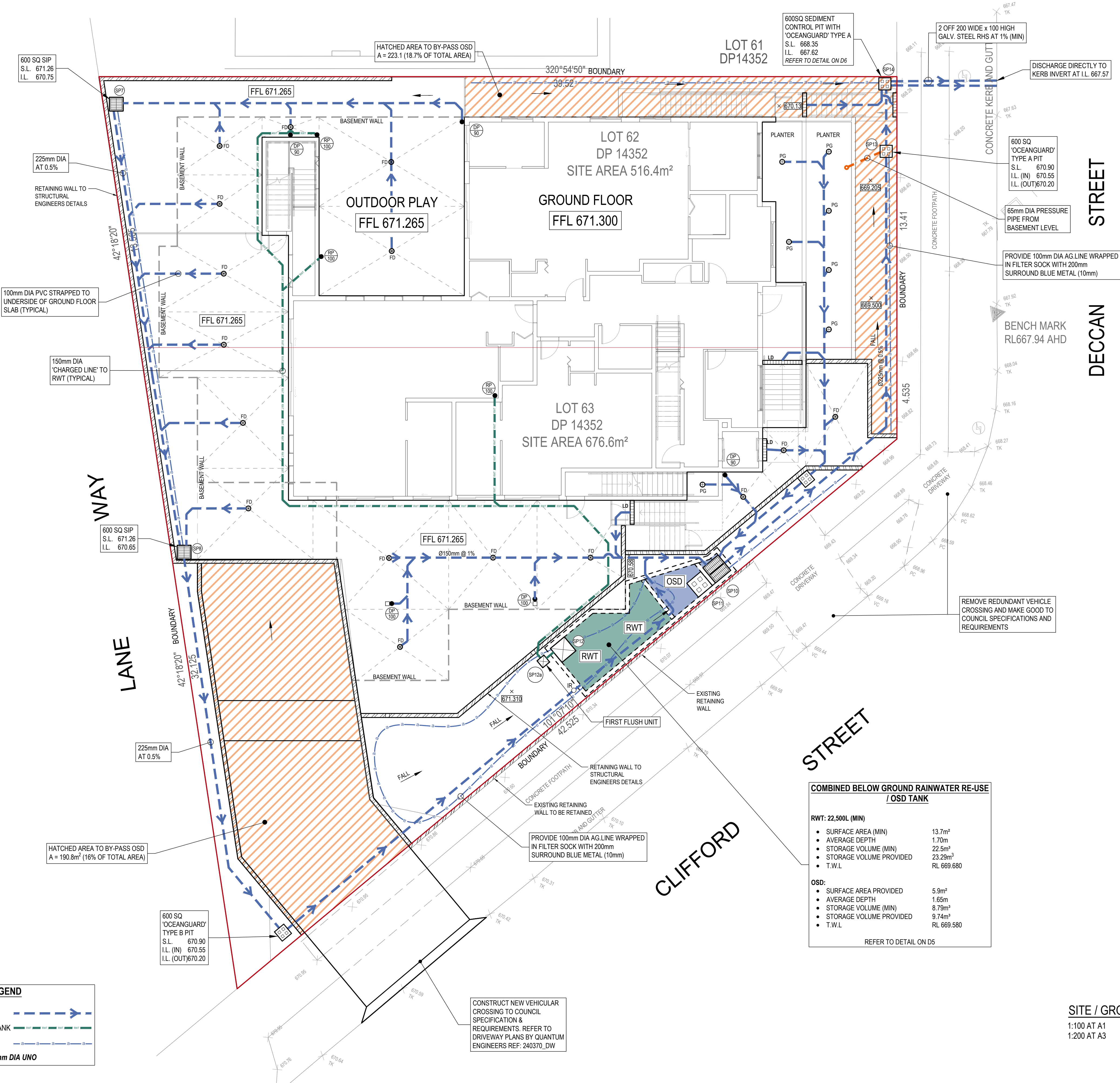
NOTE: CONSTRUCTION DETAILS OF WORKS MUST BE IN ACCORDANCE WITH THE UPPER PARRAMATTA RIVER CATCHMENT TRUST'S GUIDELINES OR OTHER RECOGNIZED AUTHORITIES.

IN THE CONTRIBUTION TO ON-SITE DETENTION BY RAINWATER TANKS:

"ON-SITE RETENTION FACILITIES SUCH AS RAINWATER TANKS THAT ARE PLUMBED INTO THE DEVELOPMENT'S WATER SUPPLY CAN BE INCLUDED AS COUNTING TOWARDS THE ON-SITE DETENTION STORAGE REQUIREMENT AT A VOLUME OF 50% OF ITS CAPACITY"

- RAINWATER REUSE OFFSET: 22.5 m³ x 0.5 = 11.25 m³ (11,250 L)
- FINAL OSD REQUIRE: 20.04 m³ - 11.25 m³ = 8.79m³

THEREFORE, PROVIDE MINIMUM 8.79 m³ OSD BELOW GROUND TANK



NOTE: ALL GRATED TRENCH DRAINS TO BE 200mm WIDE x 100mm DEEP (AT HIGH POINT) WITH MINIMUM 2% BASE FALL UNLESS NOTED

DOWNPIPE LEGEND

- INDICATES DOWNPIPE DIRECTLY TO OSD SYSTEM
- INDICATES DOWNPIPE DIAMETER
- DOWNPIPE PENETRATING FLOOR SLAB
- DOWNPIPE COMMENCING BELOW FLOOR SLAB

DRAINAGE PIPE LEGEND

- DRAINAGE PIPES VIA GRAVITY
- DRAINAGE PIPES TO RAINWATER TANK
- AGGREGATE LINE

NOTE: ALL PIPES TO BE 100mm DIA UNO

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MEMBER 1052208 (RPEQ/05464)
APQC Engineer (Reg/05464)

ARCHITECT
BAINI DESIGN

CLIENT
STONE COMMERCIAL GROUP PTY LTD

DRAWING TITLE
SITE/GROUND FLOOR PLAN

PROPOSED CHILOCARE
Lot 62 & 63, 110-112 DECCAN STREET,
GOULBURN

APPROX TRUE NORTH
N

REVISION	DATE	DESCRIPTION
A	15.11.2024	ISSUED FOR COORDINATION
B	13.12.2024	ISSUED FOR DEVELOPMENT APPLICATION
C	23.12.2024	RE-ISSUED FOR DEVELOPMENT APPLICATION

DESIGNED BY	DESIGNED BY
E.WONG	E.WONG
E.WONG	E.WONG
D.CHENG	D.CHENG

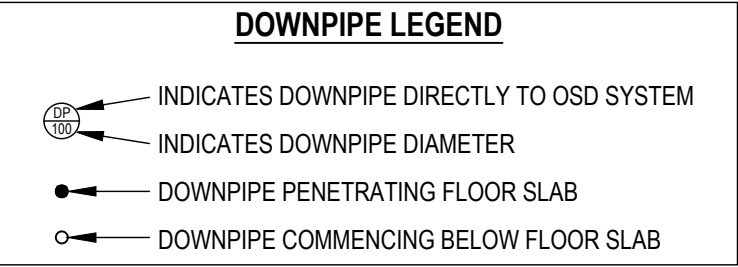
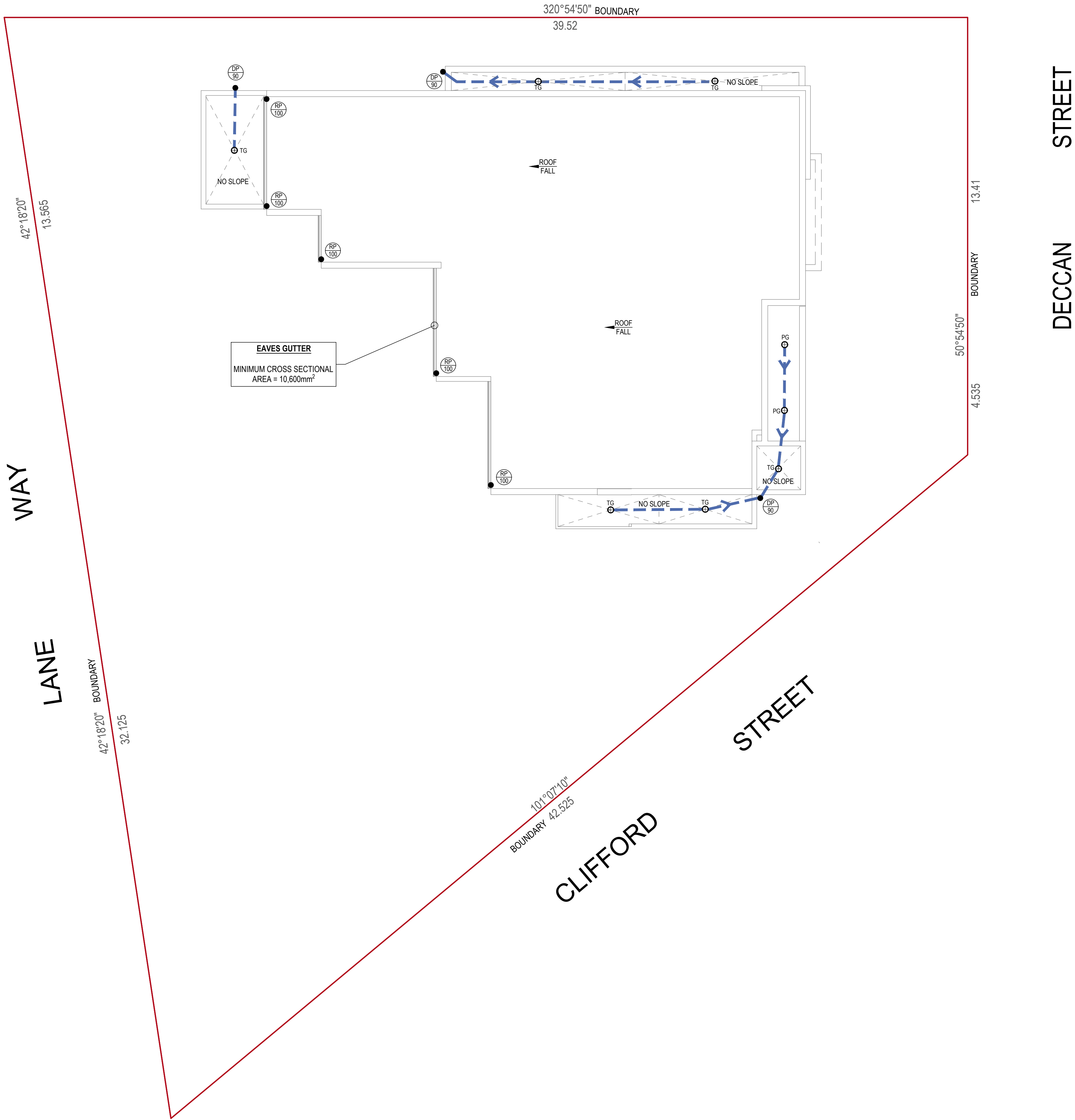
ISSUED FOR
DA

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SCALE - SIZE	REVISION	DRAWING No.
AS NOTED - A1	c	D3

EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2021			
Horizontal catchment area	Ah	= 259.3	sq.m
Roof Average slope	S	= 2	degrees
Intensity ARI 20 (AEP 5%)(5 min)	I	= 173	mm/hr
Is Gutter slope steeper than 1:500 ?		No	
Down pipe size selected	dia	= 100	mm
Cross referencing From Table 3.5.2 and Fig 3.5.4(A)or(B)			
Theoretical number of DPs required	Tnum	= 4.82	
Selected Number of Down pipes	n	= 5	
from AS3500 Table 3.4.3.2, C'ment Area Multiplier	f	= 1.02	
Roof Area allowing for slope	Ac	= Ah*f	
		= 264.5	sq.m
Catchment Area per DP	A	= Ac/n	sq.m
		= 52.9	sq.m
Flow/DP	q	= I*A/3600	litres/sec
		= 2.54	litres/sec
from AS/NZS 3500 fig 3.5.4(B), Gutter Area		= 10560	sq.mm
Gutter Area rounded to nearest 100sq.mm		= 10600	sq.mm
From AS/NZS 3500 Table 3.5.2, Down Pipe size		= 100	mm
Down Pipe size selected		= 100	mm
Summary			
This catchment requires :- number of DPs		= 5	
Downpipe size		= 100	mm
minimum eaves gutter cross sectional Area		= 10560	sq.mm

Notes: Catchment area of each DP to be roughly similar size.
Length of any gutter draining to a downpipe to be not longer than 12m.(NCCvol2).

EAVES GUTTER CALCULATIONS



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MEM1052258(R) RPE(25464)
APQC Engineer (APQ5 Aust)

ARCHITECT

BAINI DESIGN

CLIENT

STONE COMMERCIAL GROUP PTY LTD

DRAWING TITLE

ROOF PLAN

PROPOSED CHILDCARE

Lot 62 & 63, 110-112 DECCAN STREET,
GOULBURN



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SCALE - SIZE	REVISION	DRAWING No.
AS NOTED - A1	C	D4

ROOF PLAN
1:100 AT A1
1:200 AT A3

LGA:	GOULBURN MULWAREE COUNCIL
RELEVANT CODE:	STORMWATER DRAINAGE AND RAINWATER COLLECTION SYSTEMS POLICY SECTION 2.2
"MINIMUM RAINWATER TANK SIZES IN AREAS SERVICES BY RETICULATED WATER: LOT SIZE 701m² TO 2000m² = 22,500L."	

ORIFICE PLATE SIZE CALCULATIONS

Discharge Orifice Design

$$Q(m^3/s) = C_d A_o (2gh)^{1/2}$$

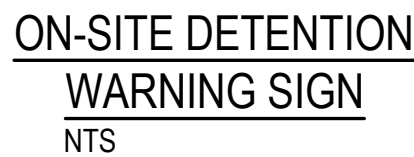
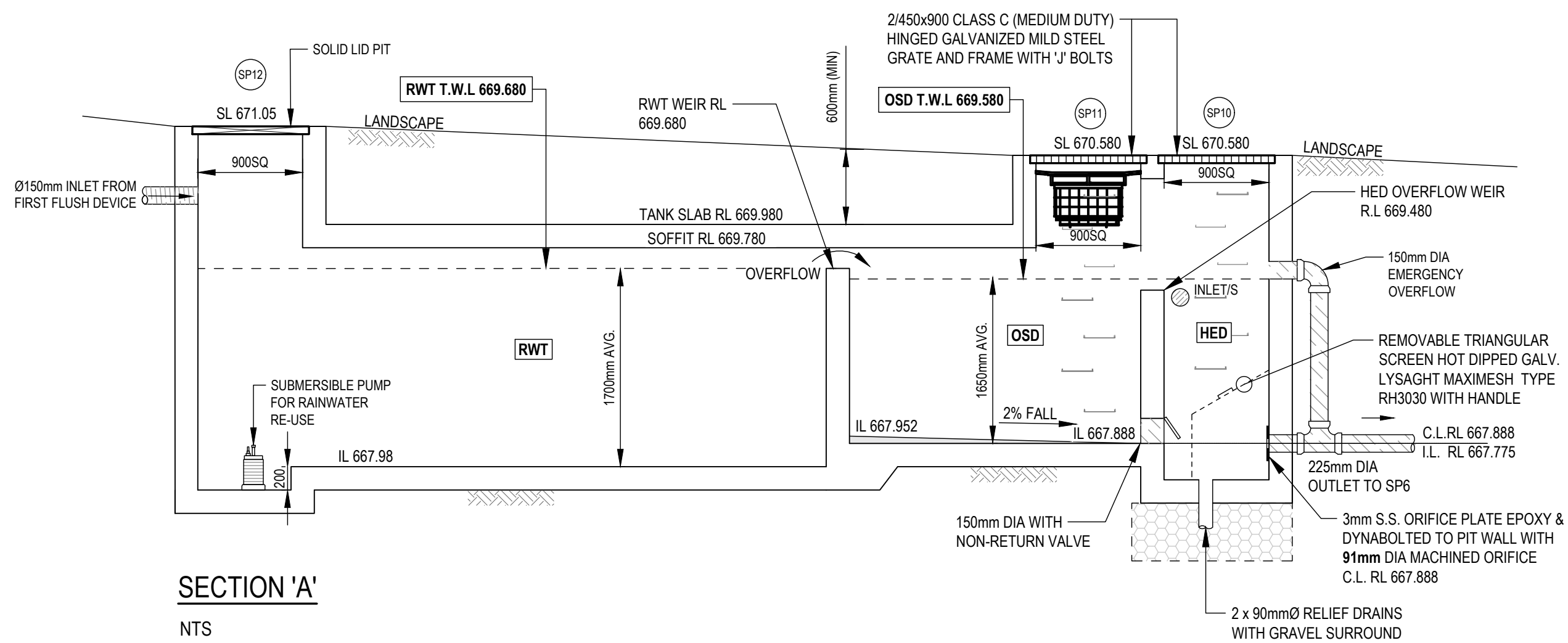
$C_d = 0.6$ (Assumed)
 A_o = area of orifice
 h = head to centre of orifice

Head to orifice centre = 1.65 m
 PSD = 22.31 L/s
 Area of orifice = 0.007 m²

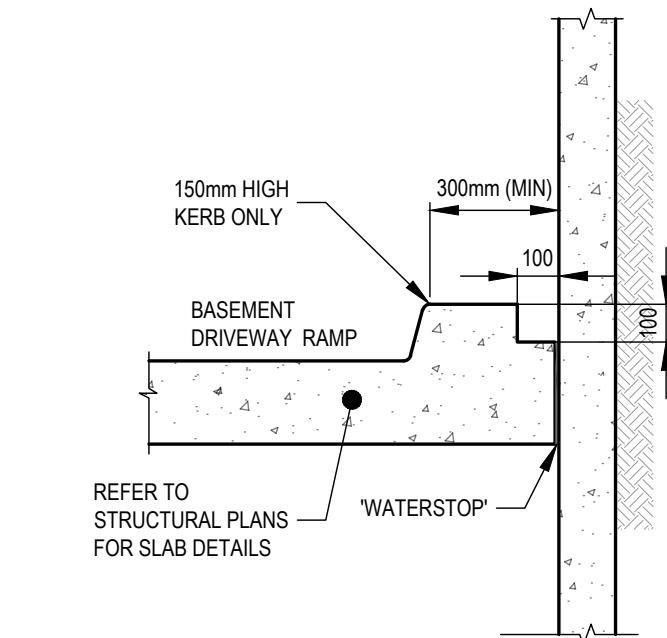
Diameter of orifice = 91.2 mm diameter

Area of plate = 0.033 m² 5 times area of orifice
 Each side (minimum) = 0.181 m

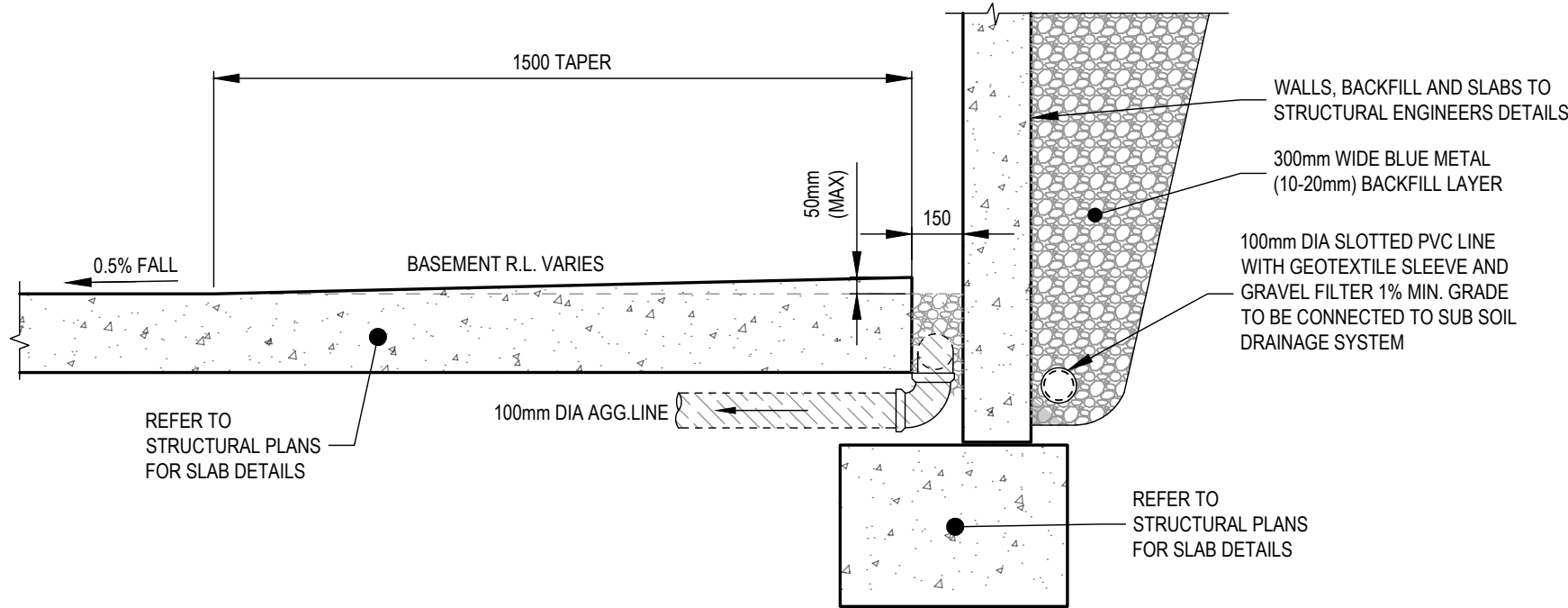
Dimension of Orifice Plate = 181 mm
(min. Adopt 200mm x 200mm square plate)



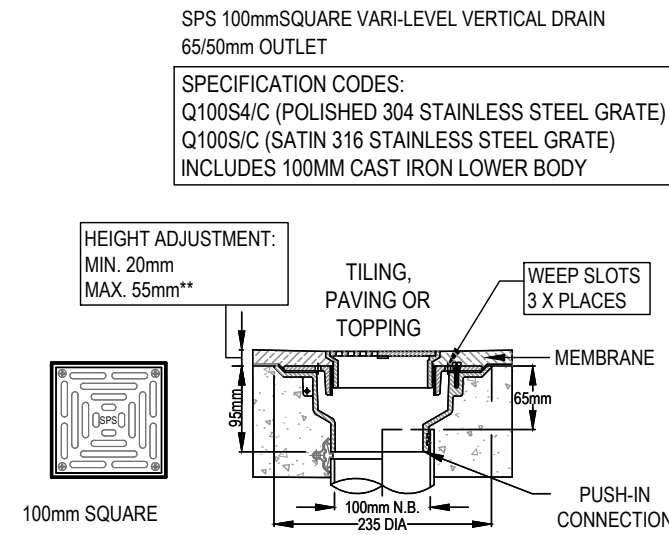
ORIFICE PLATE DETAIL
NTS



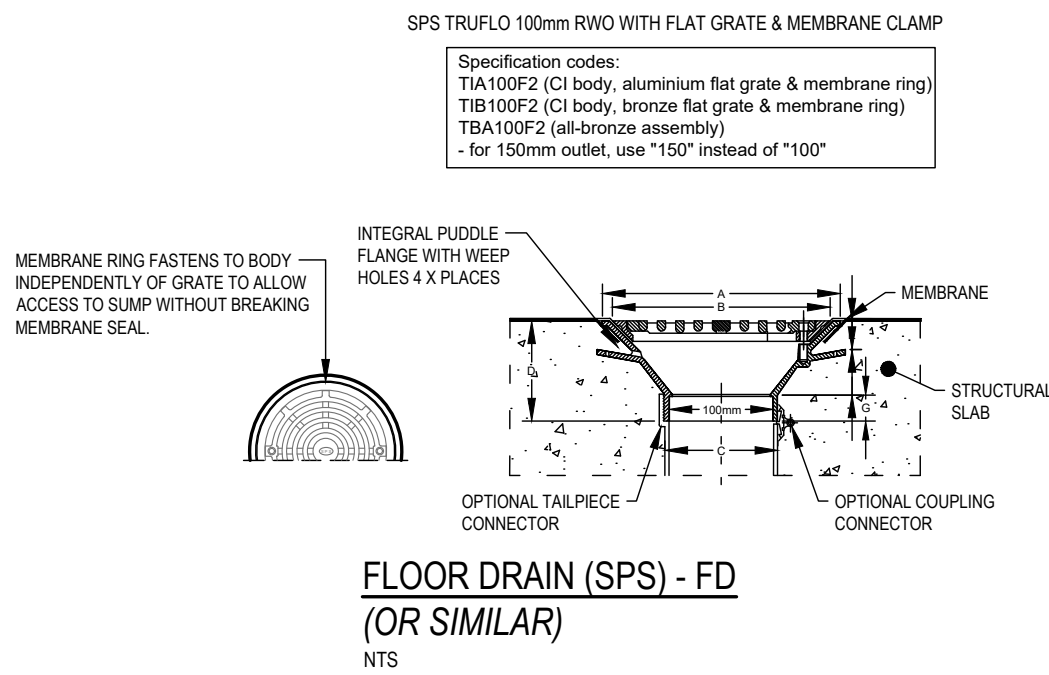
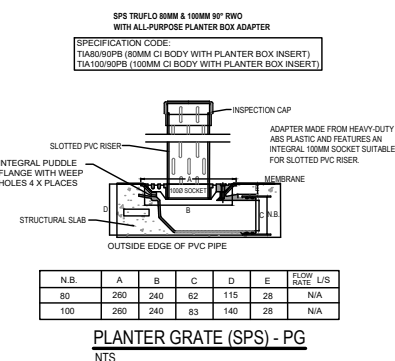
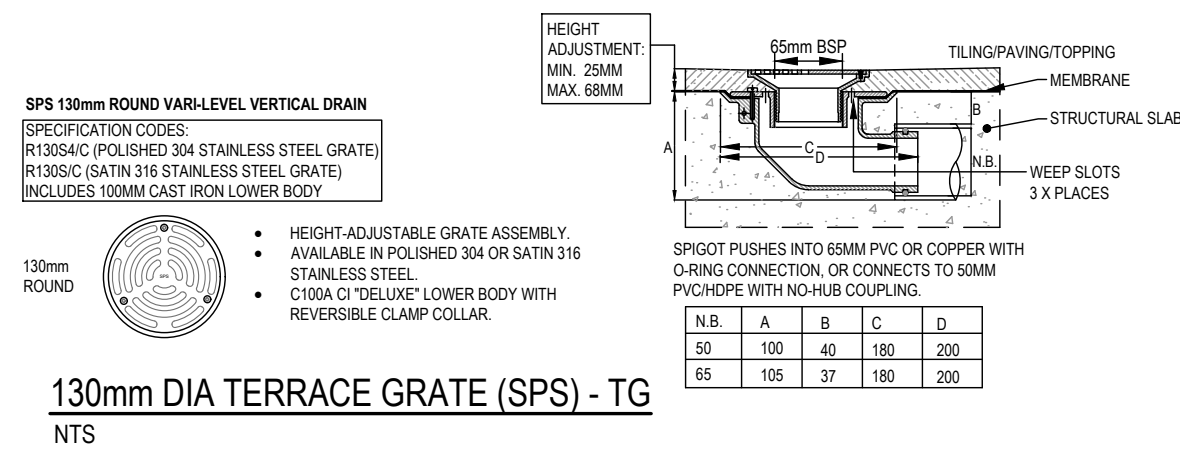
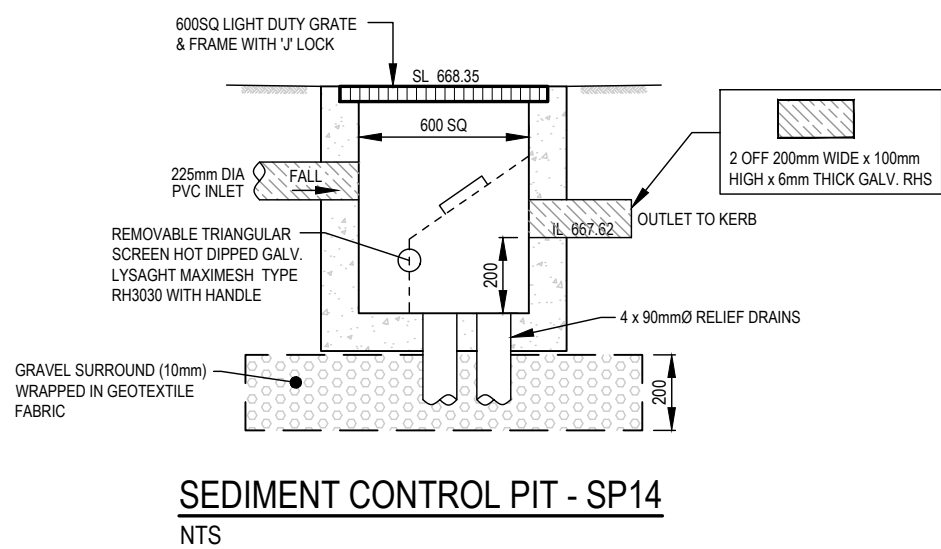
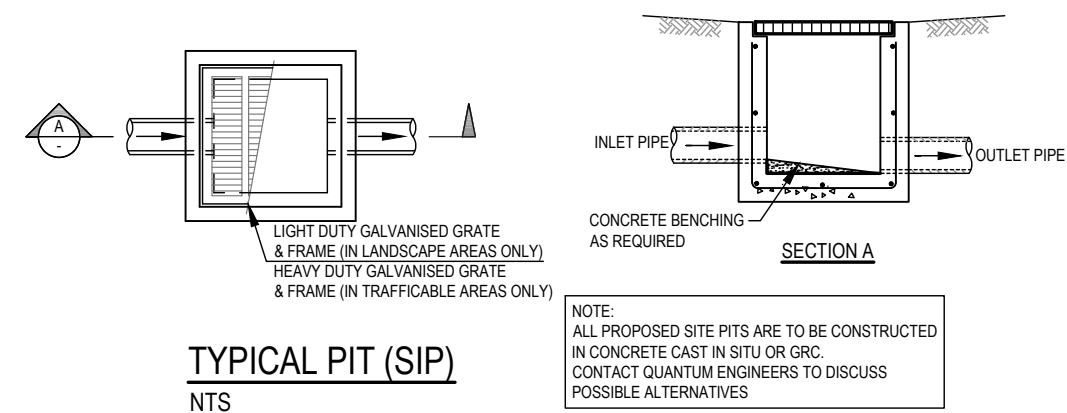
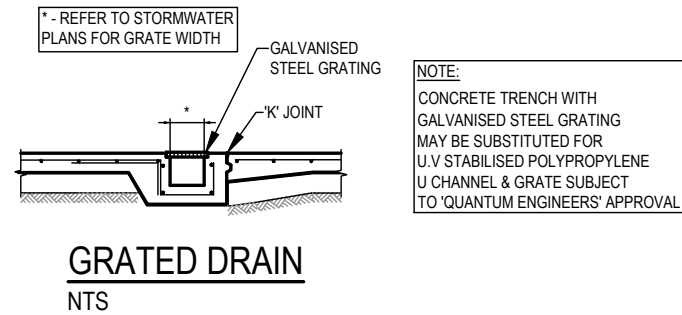
SECTION 'A' - DRIVEWAY RAMP 'WET-WALL' DRAINAGE DETAIL
1:20



SECTION 'B' - WALL DRAINAGE DETAIL
1:20



FLOOR DRAIN (SPS) - FW
NTS



DUST CONTROL:

• NOTE: DURING EXCAVATION, DEMOLITION AND CONSTRUCTION, ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT DUST FROM AFFECTING THE AMENITY OF THE NEIGHBORHOOD.

THE FOLLOWING MEASURES MUST BE ADOPTED:

1. PHYSICAL BARRIERS SHALL BE ERECTED AT RIGHT ANGLES TO PREVENT WIND DIRECTION OR SHALL BE PLACED AROUND OR OVER DUST SOURCES TO PREVENT WIND OR ACTIVITY FROM GENERATING DUST.
2. EARTHWORKS AND SCHEDULING ACTIVITIES SHALL BE MANAGED TO COINCIDE WITH THE NEXT STAGE OF DEVELOPMENT TO MINIMISE THE AMOUNT OF TIME THE SITE IS LEFT TO CUT OR EXPOSED.
3. ALL MATERIALS SHALL BE STORED OR STOCKPILED AT THE BEST LOCATIONS.
4. THE GROUND SURFACE SHOULD BE DAMPENED SLIGHTLY TO PREVENT DUST FROM BECOMING AIRBORNE BUT SHOULD NOT BE WET TO THE EXTENT THAT RUN-OFF OCCURS.
5. ALL VEHICLES CARRYING SOIL OR RUBBLE TO OR FROM THE SITE SHALL AT ALL TIMES BE COVERED TO PREVENT THE ESCAPE OF DUST.
6. ALL EQUIPMENT WHEELS SHALL BE WASHED BEFORE EXISTING THE SITE USING MANUAL OR AUTOMATED SPRAYERS AND DRIVE - THROUGH WASHING BAYS.
7. GATES SHALL BE CLOSED BETWEEN VEHICLE MOVEMENTS SHALL BE FITTED WITH SHADE CLOTH.
8. CLEANING OF FOOTPATHS AND ROADWAYS SHALL CARRIED OUT DAILY.
9. ALL BUILDERS REFUSE, SPOIL AND/OR MATERIAL UNSUITABLE FOR USE IN LANDSCAPE AREAS SHALL BE REMOVED FROM SITE ON COMPLETION OF THE BUILDING WORKS.

NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
2. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
3. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
4. ROADS AND FOOTPATH TO BE SWEEPED DAILY AS REQUIRED BY COUNCIL.
5. IF YOU DO NOT COMPLY WITH COUNCIL REQUIREMENTS & DOCUMENTATION, YOU MAY BE LIABLE TO PROSECUTION FROM GOVERNMENT AUTHORITIES.

LEGEND:

UNDISTURBED VEGETATION

SEDIMENT FENCE

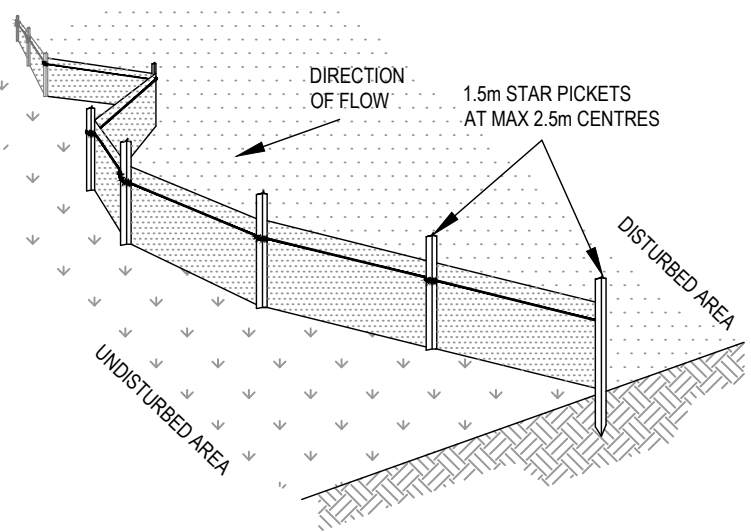
STOCK PILES

STABILIZED SITE ACCESS

MESH & GRAVEL INLET FILTER

WATER DIVERSION

STORMWATER PIT WITH SEDIMENT BARRIER

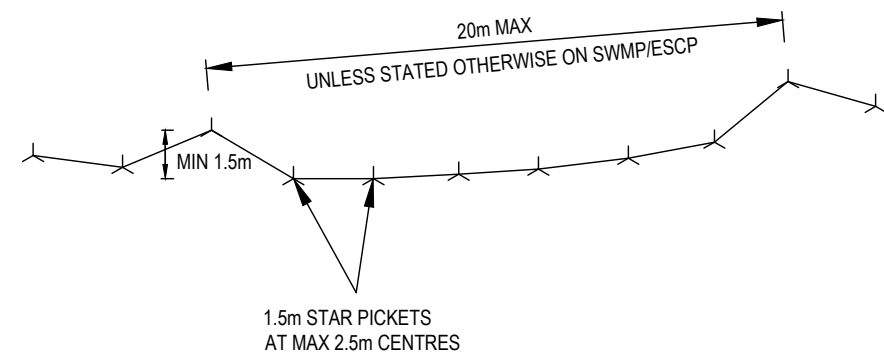
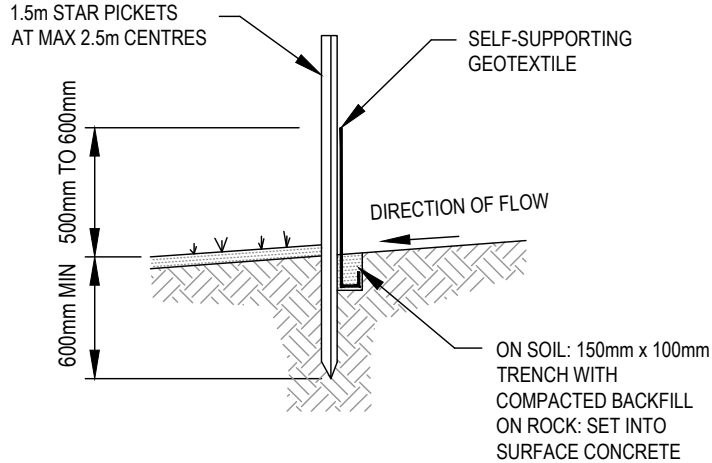


SEDIMENT FENCE DETAIL

NTS

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 CATCHMENTS AREA OF ANY ONE SECTION. THE CATCHMENTS 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 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m 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 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

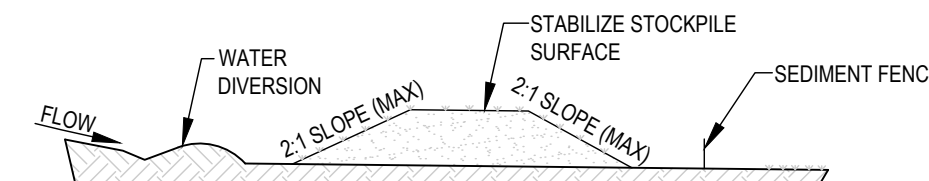


CLIFFORD STREET

STREET

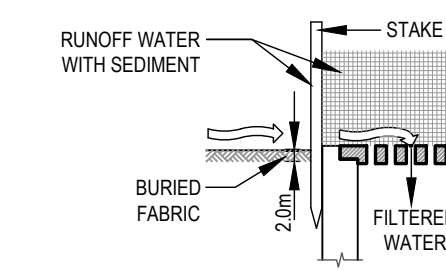
STOCKPILE

NTS



NOTE:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (LOW FLOW) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES ON THE DOWNSLOPE.



SEDIMENT BARRIER AROUND PIT

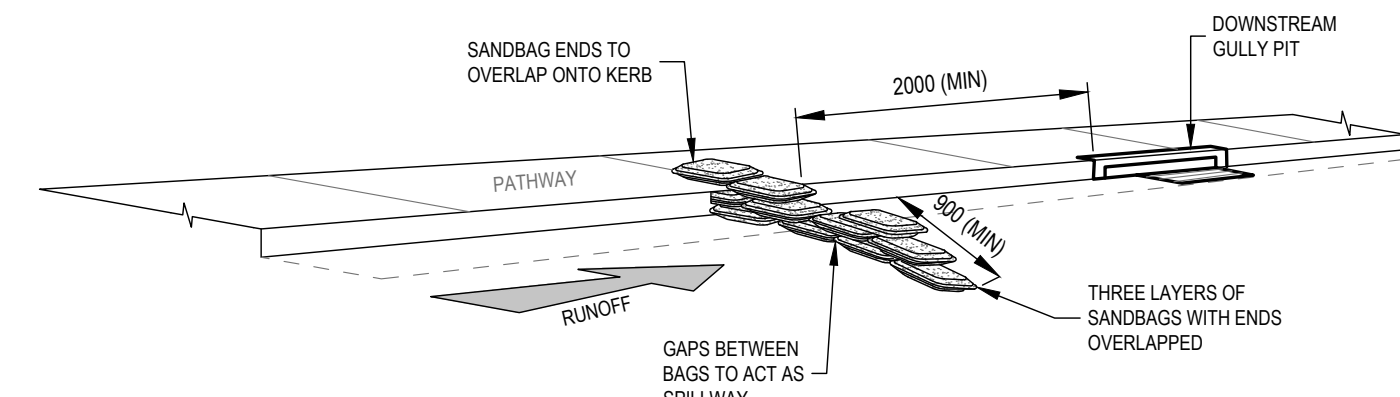
NTS

CONSTRUCTION NOTES:

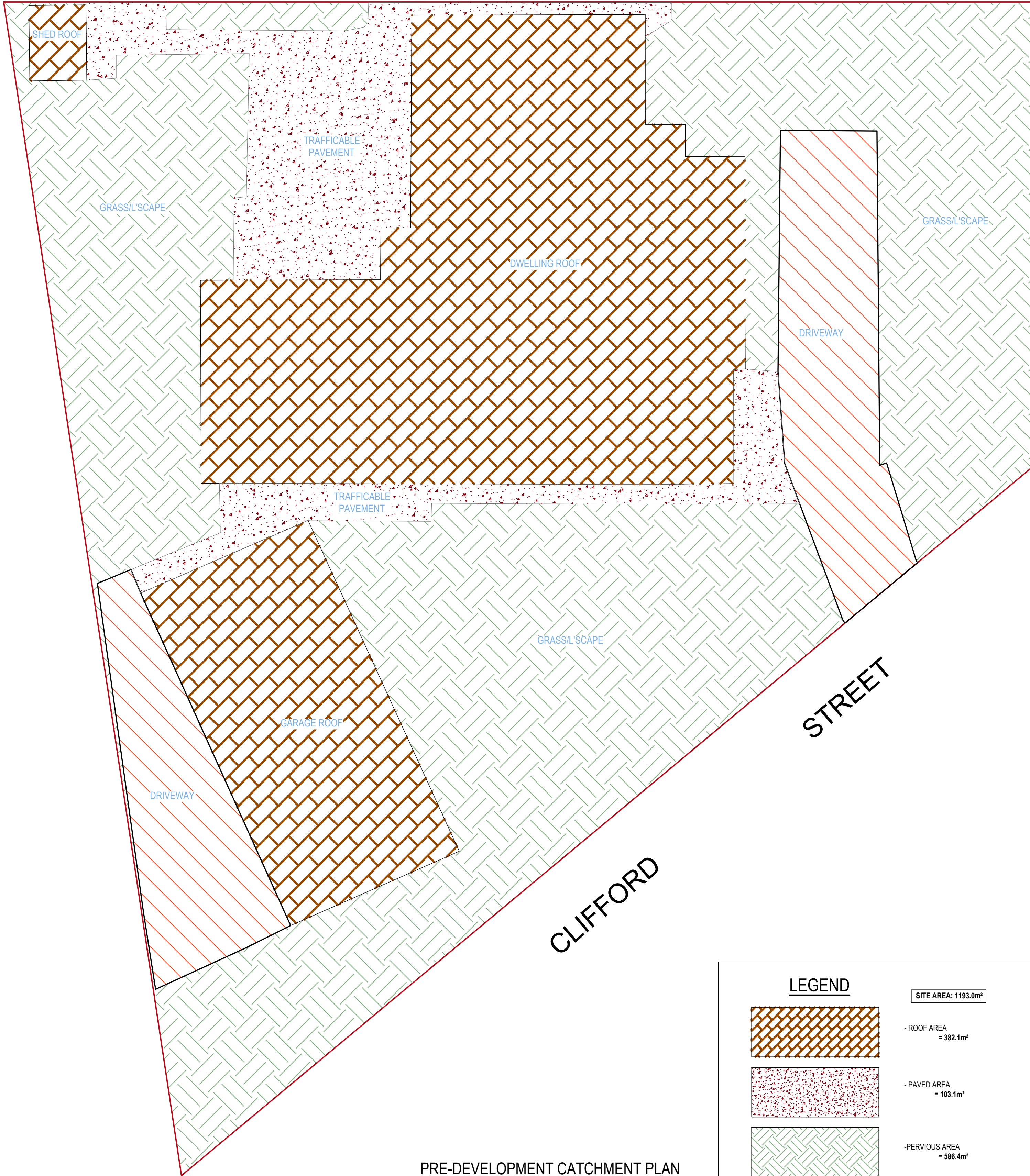
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STRAW FILTER AND SEDIMENT FENCE FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS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

SANDBAG - KERB SEDIMENT TRAP

NTS



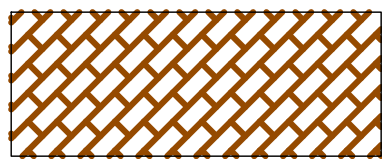
QUANTUM ENGINEERS Suite 1A, Level 2, 2 Fines Street, Eastwood NSW 2122 (02 9807 7000) admin@quantumengineers.com.au quantumengineers.com.au	GENERAL NOTES	APPROVED BY	ARCHITECT	DRAWING TITLE	APPROX TRUE NORTH	REVISION	DATE	DESCRIPTION	DESIGNED BY	ISSUED FOR DA	CHECKED BY	No. IN SET	JOB NUMBER
	ALL DIMENSIONS SHOWN IN DRAWINGS ARE TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORKS. DO NOT SCALE OFF DRAWINGS. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTS PLANS. ALL EXISTING GROUND LINES & TREES ARE APPROXIMATE ONLY. TO BE VERIFIED ON SITE BY BUILDER. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH: a) ALL RELEVANT & CURRENT BUILDING CODES, ACTS & REGULATIONS b) ALL CURRENT AUSTRALIAN STANDARDS c) ALL LOCAL COUNCIL REGULATIONS AS WELL AS ALL DCP & LEP ASSOCIATED. COPYRIGHT INFORMATION: THE DRAWING IS THE COPYRIGHT OF QUANTUM ENGINEERS. COPYING OR USING THIS DRAWING IN WHOLE OR PART WITHOUT WRITTEN CONSENT INFRINGES COPYRIGHT.	ROBERT ELTOBAGI <i>(Signature)</i> BE(CIVIL) ME(Aust) CP(Eng) MEM105222(R) RPE(25464) APSC Engineer (NSW/SA)	BAINI DESIGN	SEDIMENT CONTROL PLAN & DETAILS	N 	A	15.11.2024	ISSUED FOR COORDINATION	E.WONG		D.CHENG	9	240370_SW
				PROPOSED CHILDCARE		B	13.12.2024	ISSUED FOR DEVELOPMENT APPLICATION	E.WONG		SCALE - SIZE	REVISION	DRAWING No.
				CLIENT	Lot 62 & 63, 110-112 DECCAN STREET, GOULBURN	C	23.12.2024	RE-ISSUED FOR DEVELOPMENT APPLICATION	D.CHENG		AS NOTED - A1	C	D7
				STONE COMMERCIAL GROUP PTY LTD									



PRE-DEVELOPMENT CATCHMENT PLAN

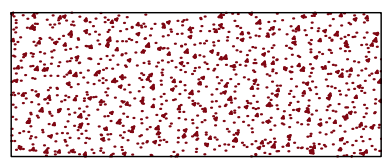
1:100 AT A1
1:200 AT A3

LEGEND

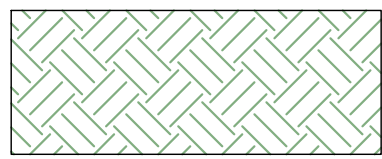


SITE AREA: 1193.0m²

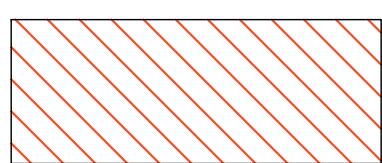
- ROOF AREA
= 382.1m²



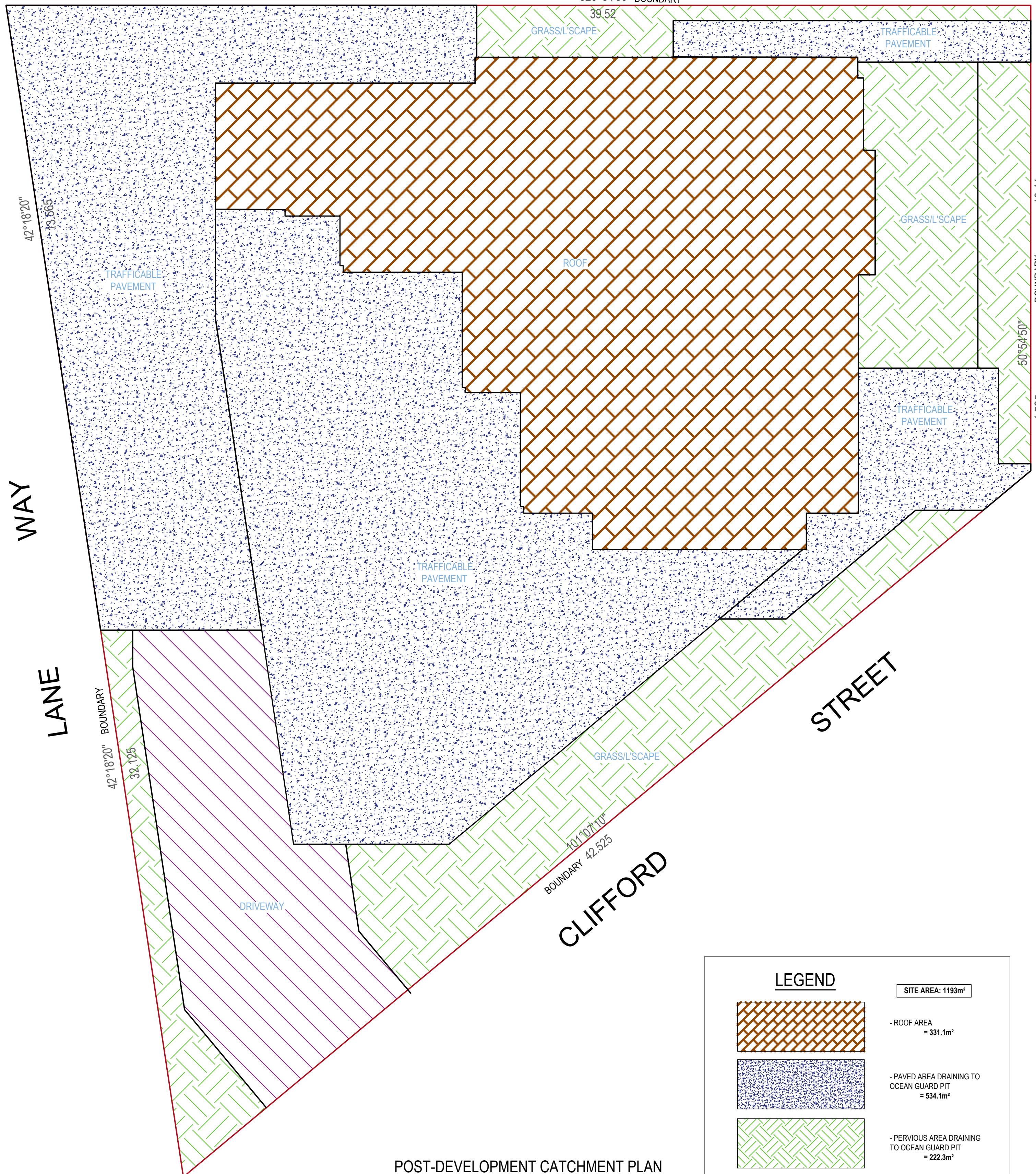
- PAVED AREA
= 103.1m²



- PERVIOUS AREA
= 586.4m²



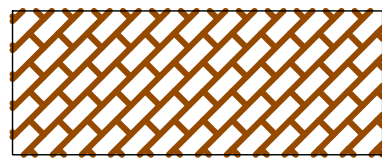
- DRIVEWAY AREA
= 121.4m²



POST-DEVELOPMENT CATCHMENT PLAN

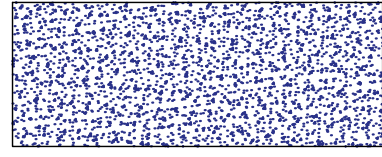
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LEGEND

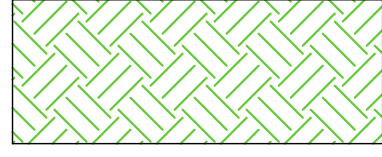


SITE AREA: 1193m²

- ROOF AREA
= 331.1m²



- PAVED AREA DRAINING TO
OCEAN GUARD PIT
= 534.1m²



- PERVIOUS AREA DRAINING
TO OCEAN GUARD PIT
= 222.3m²



- DRIVEWAY AREA DRAINING
TO OCEAN GUARD PIT
= 105.5m²



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APPROVED BY

ROBERT ELTOBBAGI
BE(CIVIL) ME(Aust) CP(Eng)
MEM110522(0) RPE(02546)
APSC Engineer (AP51404)

ARCHITECT

BAINI DESIGN

CLIENT

STONE COMMERCIAL GROUP PTY LTD

DRAWING TITLE

MUSIC - PRE & POST DEVELOPMENT CATCHMENT MAPS

PROPOSED CHILDCARE

Lot 62 & 63, 110-112 DECCAN STREET,
GOULBURN

APPROX TRUE NORTH



REVISION

REVISION	DATE	DESCRIPTION
A	15.11.2024	ISSUED FOR COORDINATION
B	13.12.2024	ISSUED FOR DEVELOPMENT APPLICATION
C	23.12.2024	RE-ISSUED FOR DEVELOPMENT APPLICATION

DESIGNED BY

E.WONG
E.WONG
D.CHENG

ISSUED FOR

DA

ISSUED FOR
DA

CHECKED BY

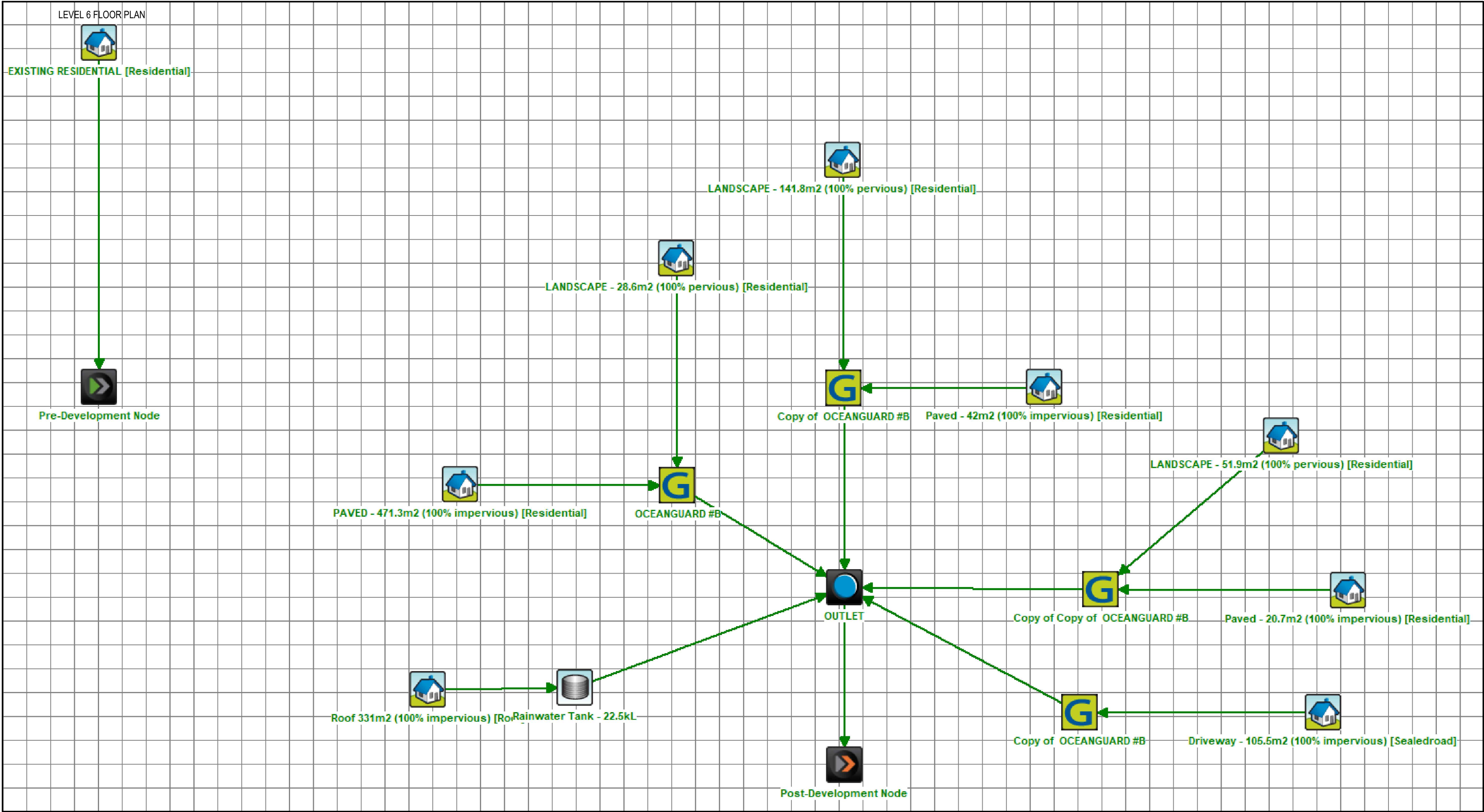
D.CHENG
SCALE - SIZE
AS NOTED - A1

No. IN SET

9
C

JOB NUMBER

240370_SW
DRAWING No.
D8



'MUSIC' MODELLING LAYOUT

Mean Annual Loads - Post-Development Node

	Inflow	
	Pre	Post
Flow (ML/yr)	0.416	0.416
Total Suspended Solids (kg/yr)	71.2	37.5
Total Phosphorus (kg/yr)	0.120	0.104
Total Nitrogen (kg/yr)	0.892	0.764
Gross Pollutants (kg/yr)	15.6	1.25

☒ include Pre-Development

'MUSIC' MODELLING RESULTS

STORMWATER TREATMENT SUMMARY

SITE AREA =8156.8m²

"MUSIC" HAS BEEN USED FOR WATER QUALITY TREATMENT ANALYSIS

AS PER YOUR REQUEST PLEASE SEE STORMWATER360'S TREATMENT DESIGN FOR THE ABOVE MENTIONED SITE. THE CATCHMENT IN MUSIC IS MODELLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES & PARAMETERS:

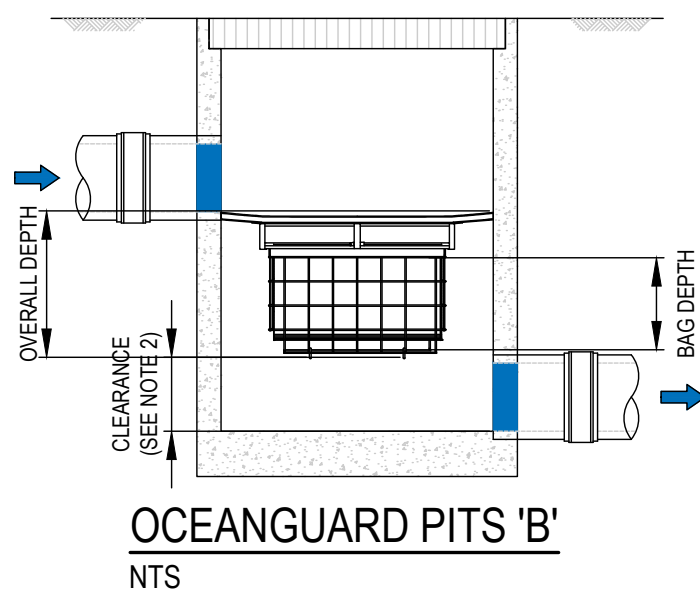
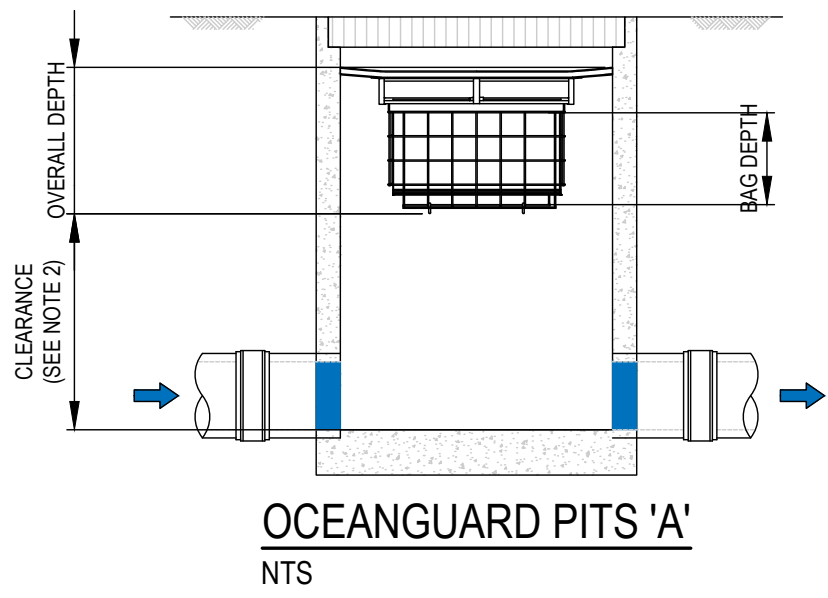
- MUSIC VERSION 6.1.0 - ZONE 1
- 'USING MUSIC IN THE SYDNEY DRINKING WATER CATCHMENT'- WATERNSW STANDARD
- 'DEVELOPMENTS IN THE SYDNEY DRINKING WATER CATCHMENT - WATER QUALITY INFORMATION REQUIREMENTS' SEPTEMBER 2020
- GOULBURN MULWAREE DEVELOPMENT CONTROL PLAN 2009
- 'STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY DRINKING WATER CATCHMENT) 2011'

THE SYSTEM HAS BEEN MODELLED TO MEET THE STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY DRINKING WATER CATCHMENT) 2011 TARGET:

' THE MODELLING RESULTS MUST COMPARE ANNUAL POLLUTANT LOADS BEFORE AND AFTER DEVELOPMENT FOR TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS AND TOTAL NITROGEN. THEY SHOULD AIM FOR AN IMPROVEMENT OF AT LEAST 10% TO ENSURE THE NEUTRAL OR BENEFICIAL EFFECT ON WATER QUALITY REQUIREMENTCAN BE MET GIVEN THE UNCERTAINTY IN THE MODELLED OUTCOMES.THE MODELLING RESULTS MUST COMPARE CUMULATIVE FREQUENCY CURVES OF POLLUTANT CONCENTRATIONS BEFORE AND AFTER DEVELOPMENT. THEY MUST SHOW THAT POLLUTANT CONCENTRATIONS AFTER DEVELOPMENT WILL BE BETTER OR EQUAL TO PREVIOUS POLLUTANT CONCENTRATIONS FOR 50-98% OF THE TIME. '

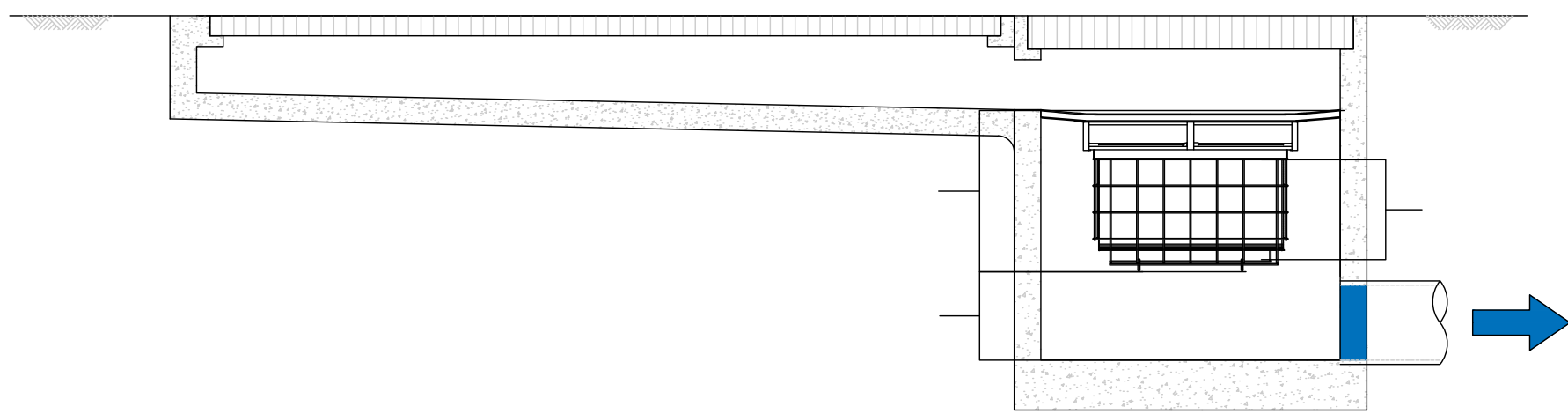
TREATMENT DEVICES:

- RAINWATER TANK
- GROSS POLLUTANT TRAP (FILTER BASKET IN SIP)
- STORMWATER FILTER
- BIO-BASIN



GENERAL NOTES

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
4. DRAWINGS NOT TO SCALE.



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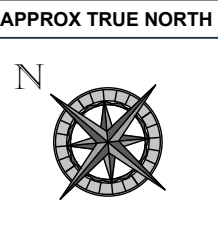
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MEM1052208 RPE025460
APSC Engineer (NSW/SA)

ARCHITECT
BAINI DESIGN

CLIENT
STONE COMMERCIAL GROUP PTY LTD

DRAWING TITLE
WSUD DETAILS, MUSIC MODELING LAYOUT & RESULTS

PROPOSED CHILDCARE
Lot 62 & 63, 110-112 DECCAN STREET,
GOULBURN



REVISION	DATE
A	15.11.2024
B	13.12.2024
C	23.12.2024

DESCRIPTION	DESIGNED BY
ISSUED FOR COORDINATION	E.WONG
ISSUED FOR DEVELOPMENT APPLICATION	E.WONG
RE-ISSUED FOR DEVELOPMENT APPLICATION	D.CHENG

ISSUED FOR DA

CHECKED BY	No. IN SET	JOB NUMBER
D.CHENG	9	240370_SW
SCALE - SIZE	REVISION	DRAWING No.
AS NOTED - A1	C	D9