# PROPOSED NEW DWELLING AT 8 WENTWORTH STREET, CROYDON PARK NSW 2133

#### **DRAINAGE NOTES:**

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN

TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE

MAXIMUM FRONT ENTRY PIPE:-STRAIGHT ENTRY - Ø750 SKEW ENTRY 45° - Ø525

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

### STORMWATER PIPE **BEDDING/PAVING NOTES:**

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

## FOOTPATH REINSTATEMENT

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

BASE COURSE 100% MODIFIED

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS: SELECT FILL 95% MODIFIED SELECT FILL (LESS THAN 300mm 98% MODIFIED BELOW BASE COURSE)

## **EROSION & SEDIMENT CONTROL**

CONTRACTOR TO PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYP).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

#### SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY REGISTERED SURVEYORS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT SYDNEY STRUCTURAL

## DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
D00	COVER SHEET
D01	STORMWATER DRAINAGE PLAN - BASEMENT LEVEL
D02	STORMWATER DRAINAGE PLAN - GROUND LEVEL
D03	STORMWATER DRAINAGE PLAN - FIRST LEVEL
D04	STORMWATER DRAINAGE PLAN - ROOF LEVEL
D05	STORMWATER DRAINAGE DETAILS SHEET 1
D06	STORMWATER DRAINAGE DETAILS SHEET 2

				Cuda ou Office
				Sydney Office —
				A / 64/23 Macmahon Street, Hurstville, NSW
Α	07/03/2022	ISSUED FOR C.D.C.	AK	P/+61 401 200 104
REV	DATE	DESCIPTION	RVD	E / info@sydneystructural.com.au
		REVISIONS		W/ www.sydneystructural.com.au



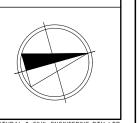




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8 King Georges Rd,	8-
ls NSW 2209 3098 7886 fx: +61 2 8098 7886	PROJEC
zta.net.au 4 632 517	PI

ADDRESS	STATUS
8-10 WENTWORTH STREET, CROYDON PARK NSW 2	<b>13§</b> SUED FOR C.D.C.
PROJECT	TITLE
PROPOSED NEW DWELLING	COVER SHEET

AM	DESIGNED	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	1:100	AT <b>A1</b>
CHECKED AE	7 1 1 125	SSCE220213	DRAWING No.	A
				SYDN





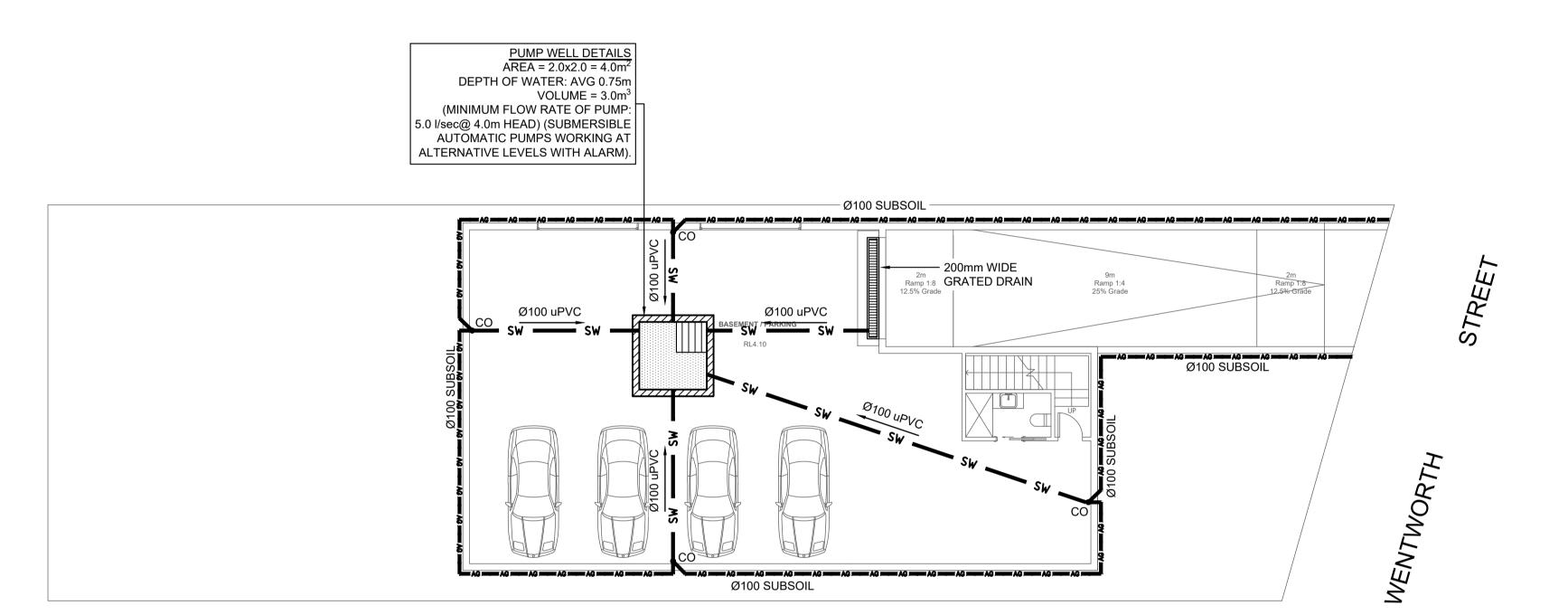
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- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
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- 11. EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

### SYMBOLS

PIT SURFACE LEVEL INVERT LEVEL TOP OF KERB STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK OVERFLOW PIPE FROM RAINWATER TANK Ø100 SUBSOIL PIPE RISING MAIN FLOOR WASTE 150X150 FLOOR WASTE 150Ø RAINWATER OUTLET 300Ø **DOWN PIPE** DOWN PIPE SPREADER CLEAN OUT CO INSPECTION OPENING VERTICAL DROP VERTICAL RISER CONCRETE COVER JUNCTION PIT **GRATED INLET PIT** WIDE GRATED DRAIN

#### **DESIGN NOTES**

- LGA = CANTERBURY-BANKSTOWN COUNCIL
- SCOPE OF WORKS TO INCLUDE DEMOLITION OF EXISTING DWELLING AND CONSTRUCTION OF RESIDENTIAL DEVELOPMENT.
- IN ACCORDANCE WITH COUNCIL GUIDELINES, OSD IS NOT REQUIRED FOR THE PROPOSED AREA AS IMPERVIOUS AREA IS LESS THAN 70%.
- RAINWATER TANK AS PER BASIX SPECIFICATIONS.



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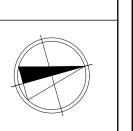








SW 2139SUED FOR C.D.C.	AM	JL	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	1:100	AT <b>A</b>	1
STORMWATER DRAINAGE PLAN BASEMENT LEVEL	AE CHECKED	APPROVED	SSCE220213	DRAWING No.	A REV.	





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PIT SURFACE LEVEL

#### SYMBOLS

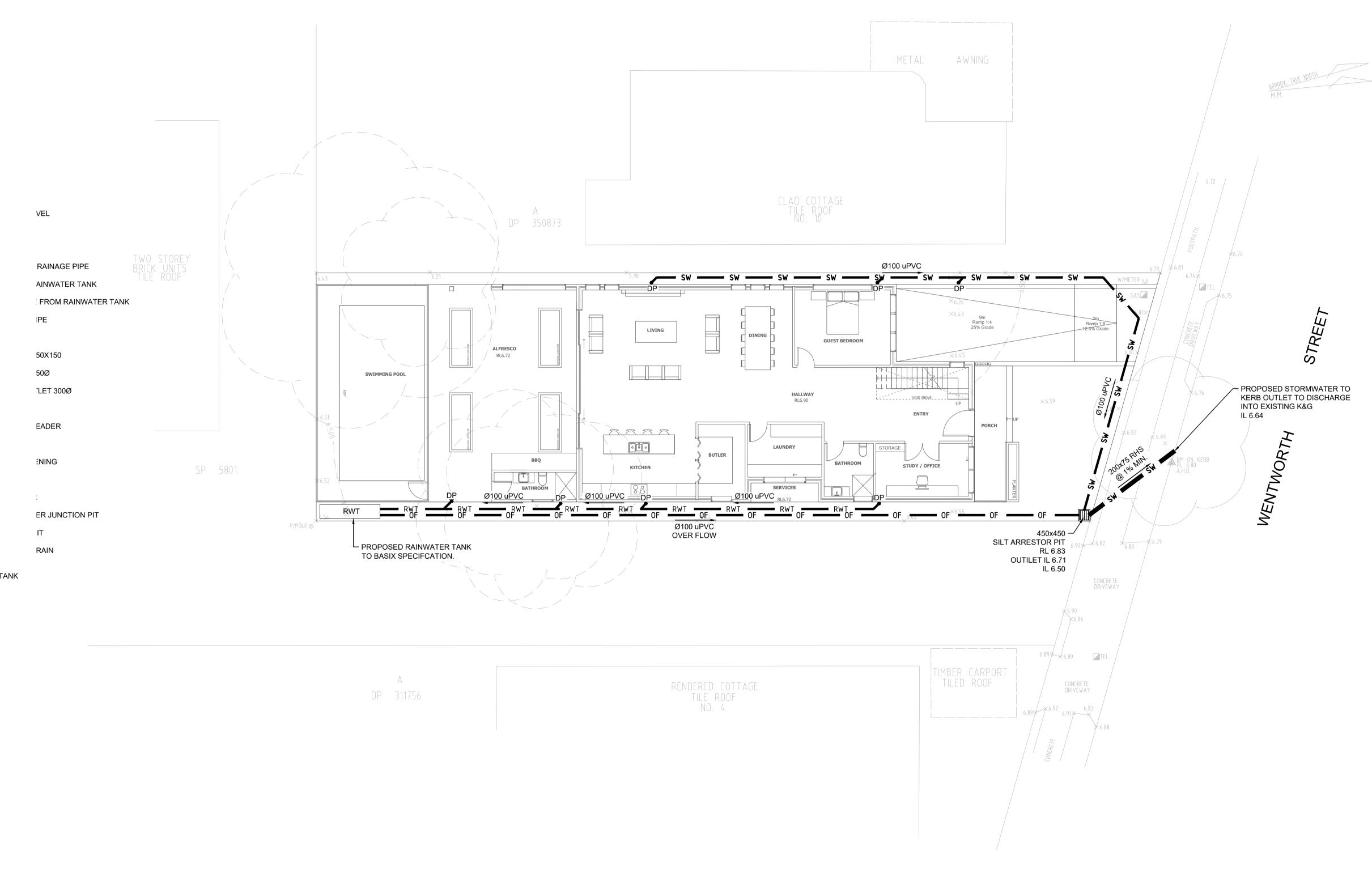
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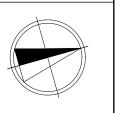


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	ABN 56 164 632 517	
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8-10 WENTWORTH STREET, CROYDON PARK NSW 21	133SUED FOR C.D.C.
	STORMWATER DRAINAGE PLAN GROUND LEVEL





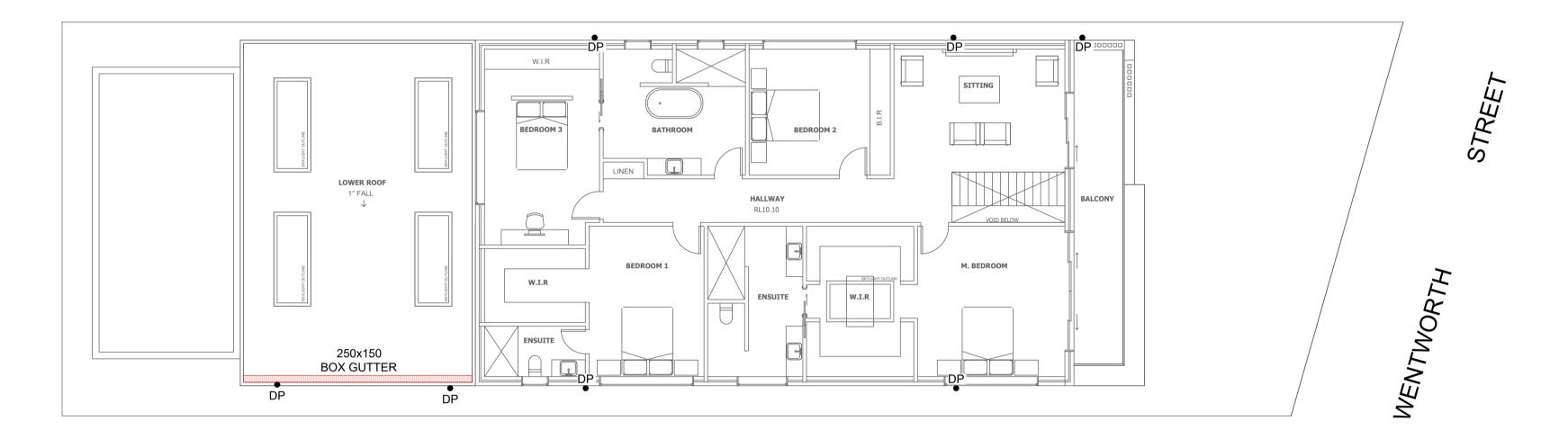


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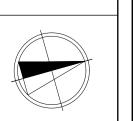
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DDRESS	STATUS	DRAWN	DESIGNED	DO NOT SCALE DRAWING, USE	SCALE		
8-10 WENTWORTH STREET, CROYDON PARK NSW	2 <b>133</b> SUED FOR C.D.C.	AM	JL	FIGURED DIMENSIONS ONLY.	1:100	АТ	A1 SIZE
ROJECT	TITLE	CHECKED	APPROVED	PROJECT No.	DRAWING No.	REV.	
PROPOSED NEW DWELLING	STORMWATER DRAINAGE PLAN FIRST LEVEL	AE	AK	SSCE220213	D03	Α	



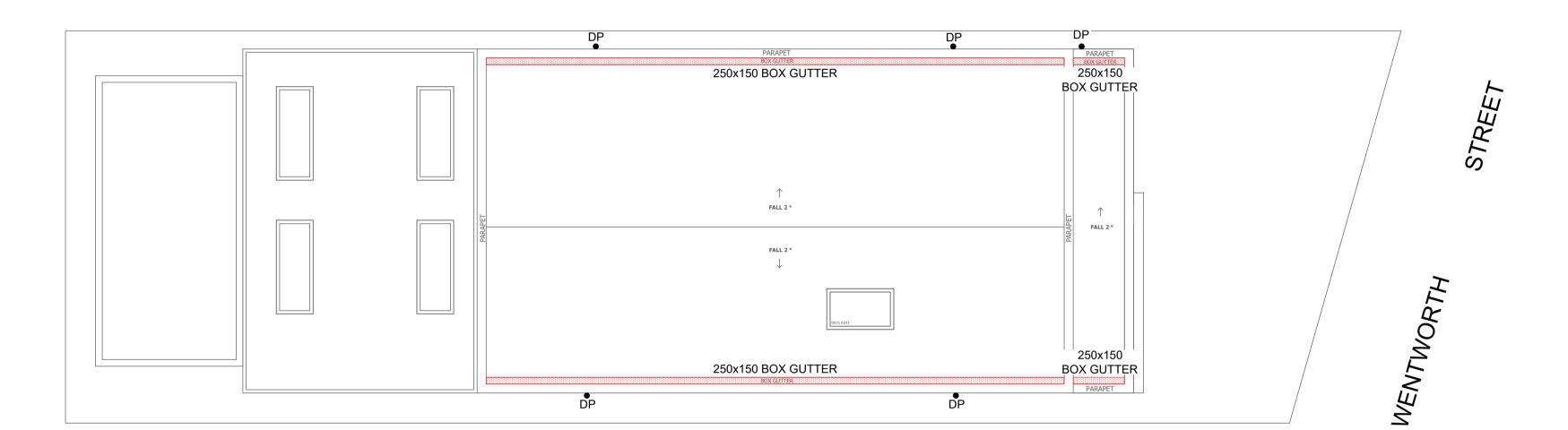


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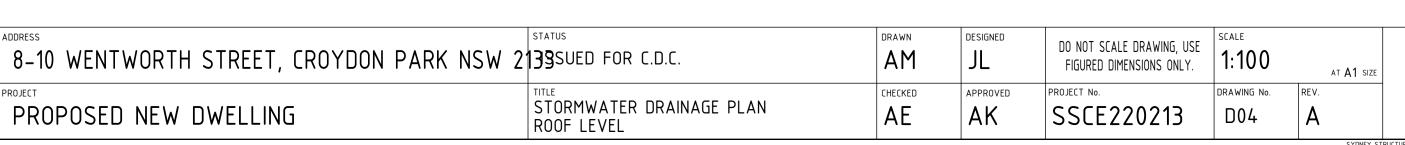
WIDE GRATED DRAIN

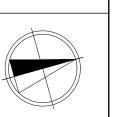






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# WARNING

PUMP OUT SYSTEM **FAILURE IN BASEMENT** WHEN LIGHT IS FLASHING AND SIREN SOUNDING

COLOURS:

- RED WARNING

BORDER AND OTHER - BLACK

#### NOTES:

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC).

## PUMP SPECIFICATIONS: STANDARD PUMP-OUT

- THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.
- 2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- 4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.
- 5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

Туре	Out	nut.	0	tlot	Rat	ted	Maxi	imum	Weigh		Dimension	
	Output		Outlet		<b>Head Capacity</b>		Head	Capacity	weign	Dimension		1
	HP	kW	mm	Inch	Μ	LPM	М	LPM	Kg	L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610



WIDTH 200MM

**COLOURS**: "DANGER" AND BACKGROUND ELLIPTICAL AREA RECTANGLE CONTAINING ELIPSE OTHER LETTERING AND BORDER

WHITE RED **BLACK** BLACK

MATERIALS: POLYPROPYLENE

> PUMP WELL DETAILS AREA DRAINING TO SUMP= 26.0m<sup>2</sup>

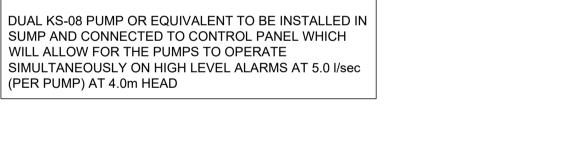
Q= 5.0 l/sec (AS 3500 MIN.)

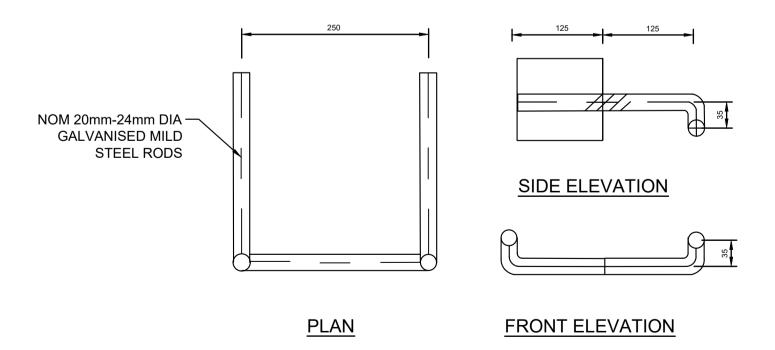
SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 35.60

Q=CIA/3600= 1X 35.60 X 26.0/3600 = 0.39 l/sec VOLUME REQUIRED =  $0.26 \text{ X}(2x60x60) = 1872 \text{ L} = 1.872 \text{m}^3$ STORAGE PROVIDED 2.0X2.0X0.75= 3.0m<sup>3</sup> (AS 3500 MIN.)

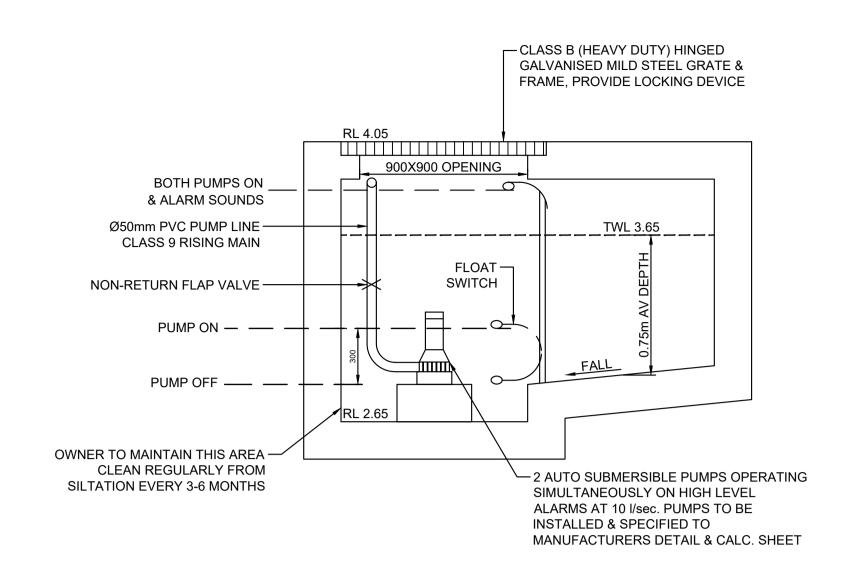
PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=197 Q=CIA/3600= 1X 197.0 X 26.0/3600 = 1.43 l/sec

DUAL KS-08 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE

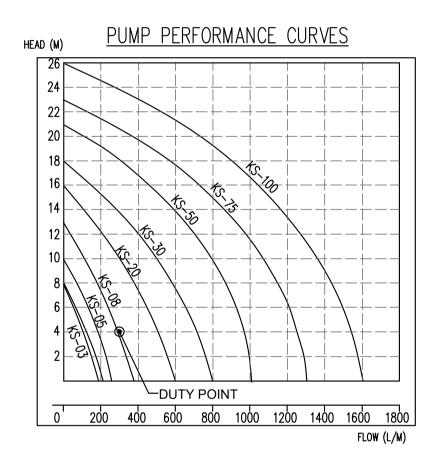


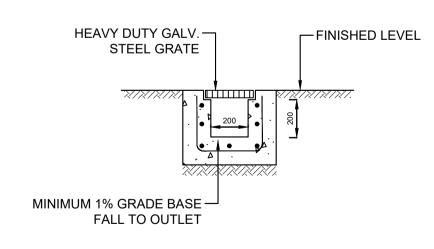














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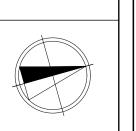




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ADDRESS	STATUS	DRAWN	DESIGNED	DO NOT SCALE DDAN/INC LISE	SCALE	
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PROPOSED NEW DWELLING	STORMWATER DETAILS SHEET 1	AE	AK	SSCE220213	D05	Α



AT A1 SIZE

