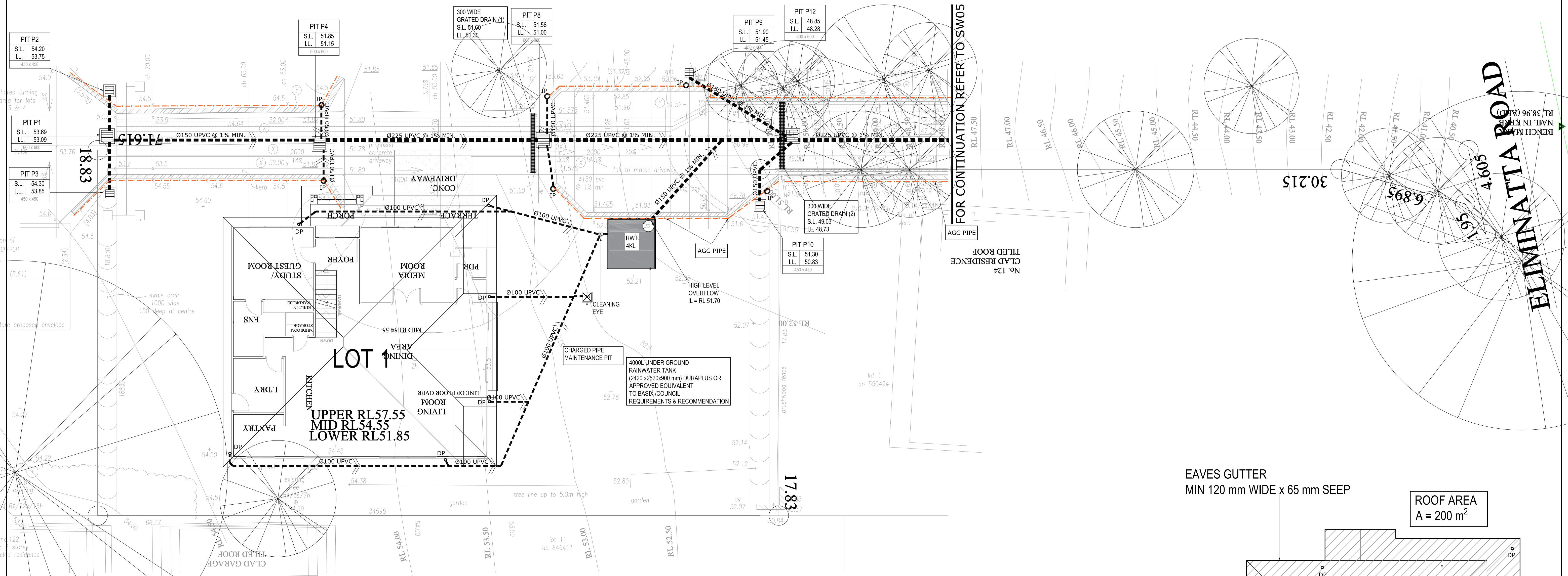




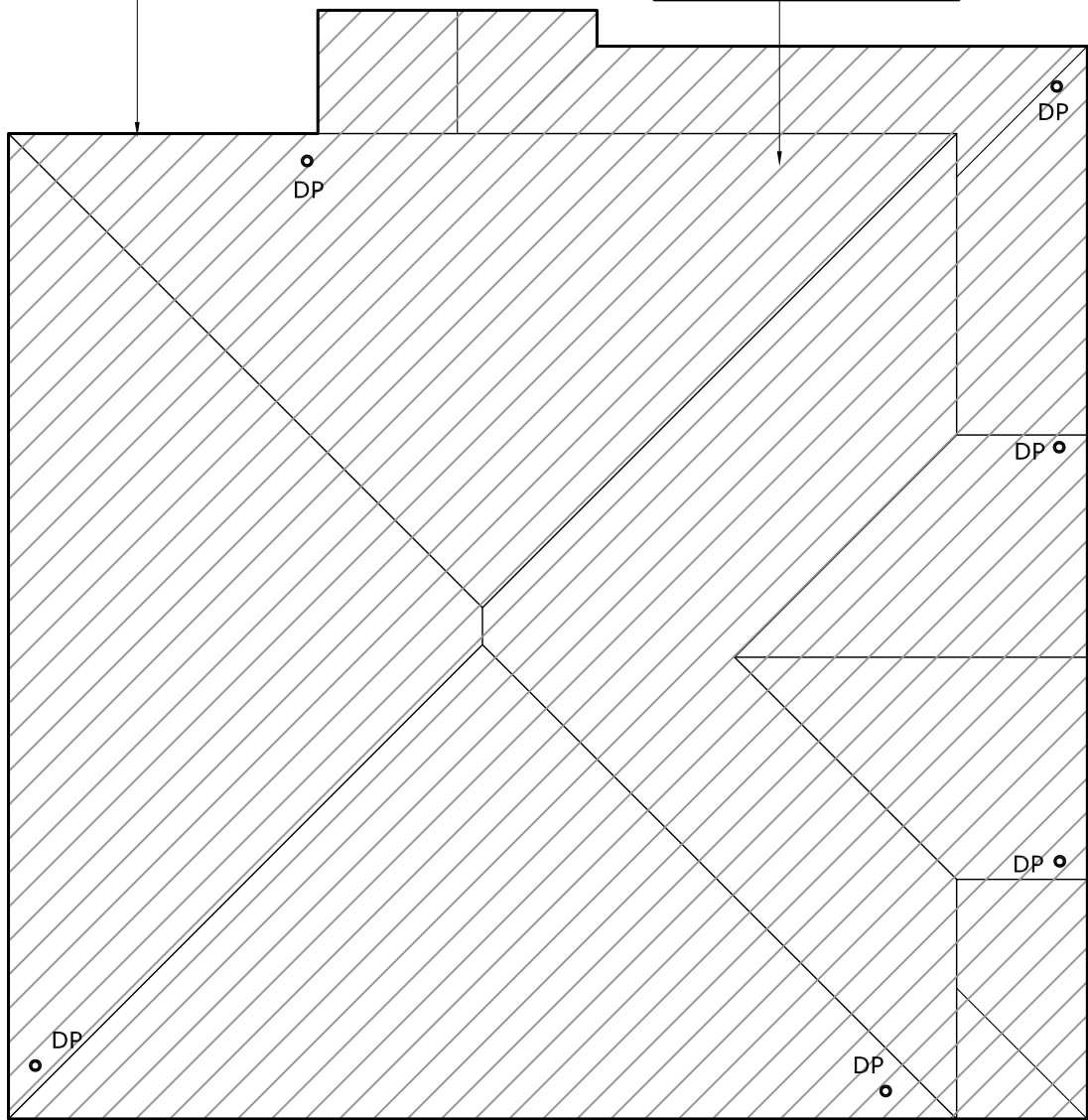
LOT 1 GROUND FLOOR- STORMWATER DRAINAGE PLAN

1:100

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EAVES GUTTER
MIN 120 mm WIDE x 65 mm SEEP

ROOF AREA
A = 200 m²



LOT 1 ROOF- STORMWATER DRAINAGE PLAN

1:100

Enter Details

Roof Catchment (Plan) Area (sq.m) *(Info)*

200

Roof 'Average' Slope (degrees) *(Learn about the average slope)*

15

Rainfall: Either choose a Location *(Important)* *(I prefer to enter a known intensity)*

173

Tick if gutter slope is steeper than 1:500 (ie 1:200)

☒

You will require one of the following DP options - (dimensions in mm)

(Assuming approximately equal catchment areas)

Flow (L/s)

10.9

Results:

	Number Req'd	Number Used	Gutter Area?	Gutter Width?	Gutter Depth?
90 Dia	5.98	6	6582	110	60
100 Dia	4.53	5	7600	120	65
150 Dia	1.68	2	15950	180	90
225 Dia	0.61	1	28128	235	120
300 Dia	0.3	1	28128	235	120

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Rev.	Description	By.	App.	Date
A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021

STRUCTURAL | STORMWATER | GLASS ENGINEERING
0413 863 363 michael@hyten.com.au www.hyten.com.au

Client

JOHN MIROSEVICH

Project

LOT 1-4 ELIMATTA RD ,
MONA VALE, NSW

Title

LOT 1 STORM WATER DRAINAGE PLAN

ISSUED FOR
APPROVAL

Project Number

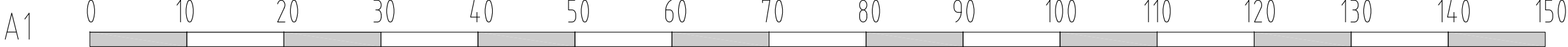
21H560

Design

Z.K

Drawing Number

SW 01



Enter Details

Roof Catchment (Plan) Area (sq.m) [\(info\)](#)

218

Roof 'Average' Slope (degrees) [\(Learn about the average slope\)](#)

15

Rainfall: Either choose a Location [\(Important\)](#)

I prefer to enter a known intensity

or enter known intensity (mm/hr)

173

Tick if gutter slope is steeper than 1:500 (ie 1:200)

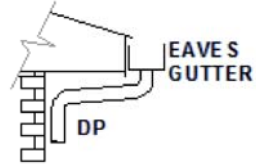
☒

You will require one of the following DP options :- (dimensions in mm)

(Assuming approximately equal catchment areas)

Flow (L/s)

11.88

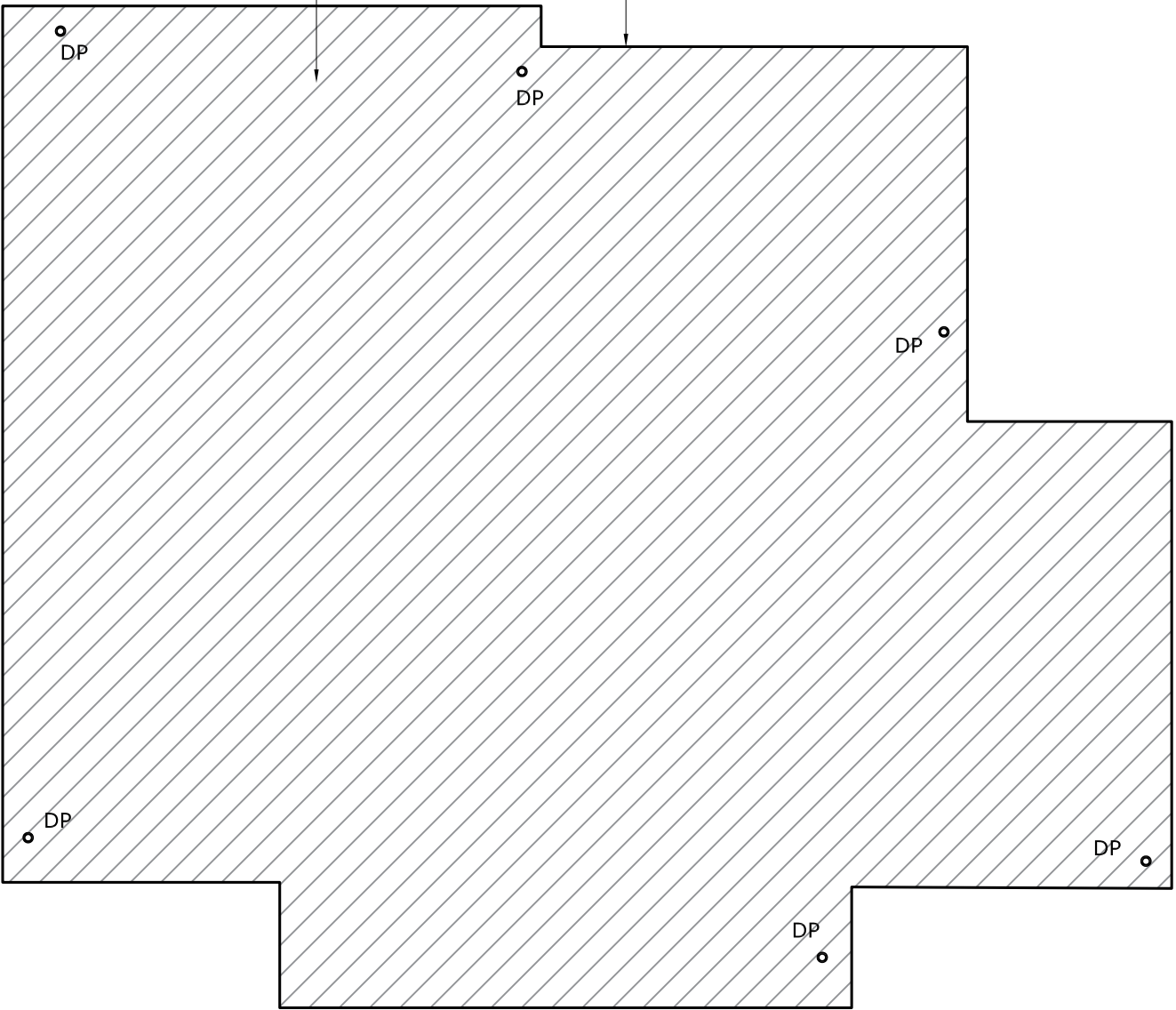


Results:

	Number Req'd	Number Used	Gutter Area?	Gutter Width?	Gutter Depth?
90 Dia:	6.52	7	6232	105	60
100 Dia:	4.94	5	8121	125	65
150 Dia:	1.83	2	17111	185	95
225 Dia:	0.66	1	30194	245	125
300 Dia:	0.32	1	30194	245	125

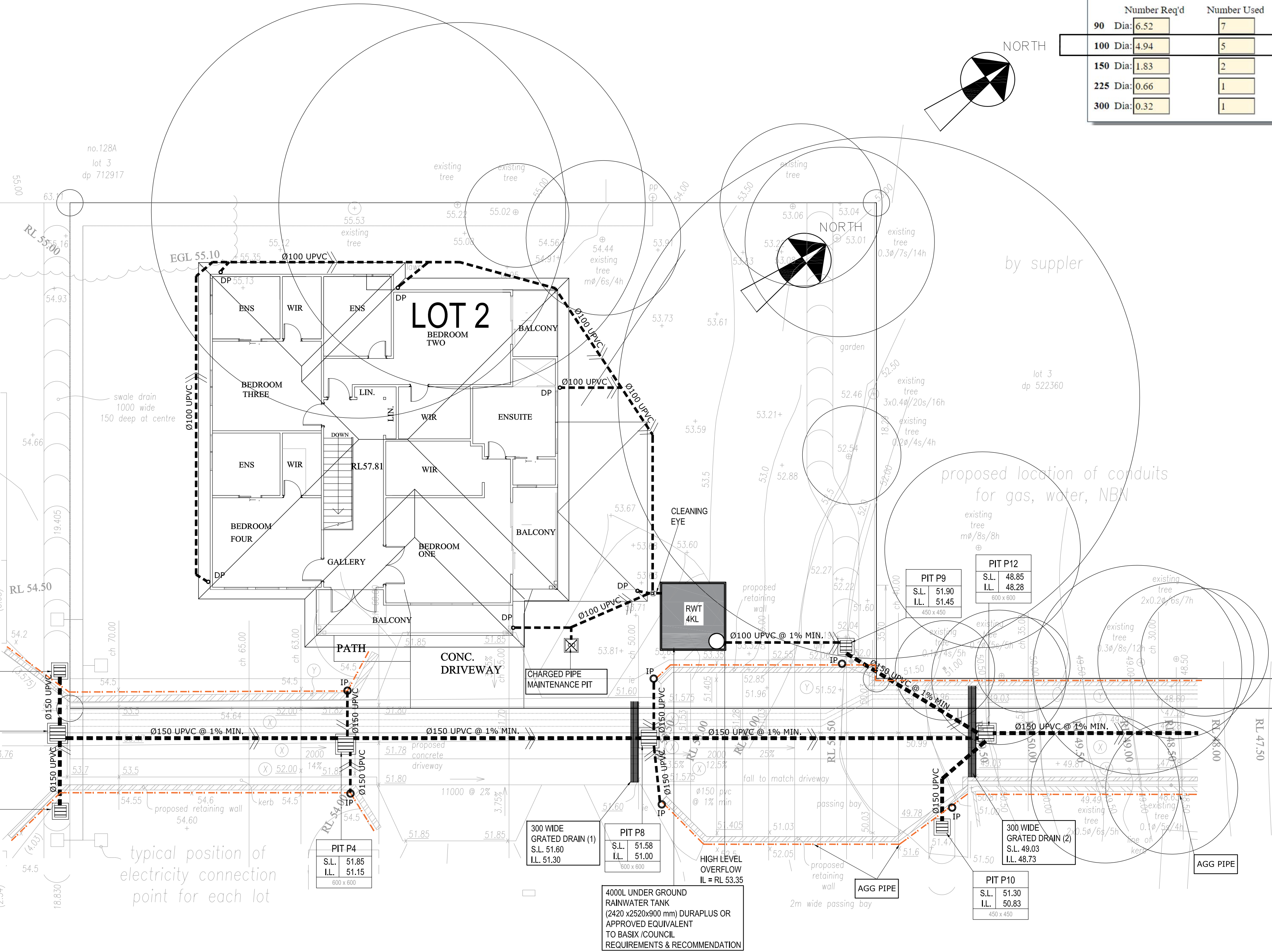
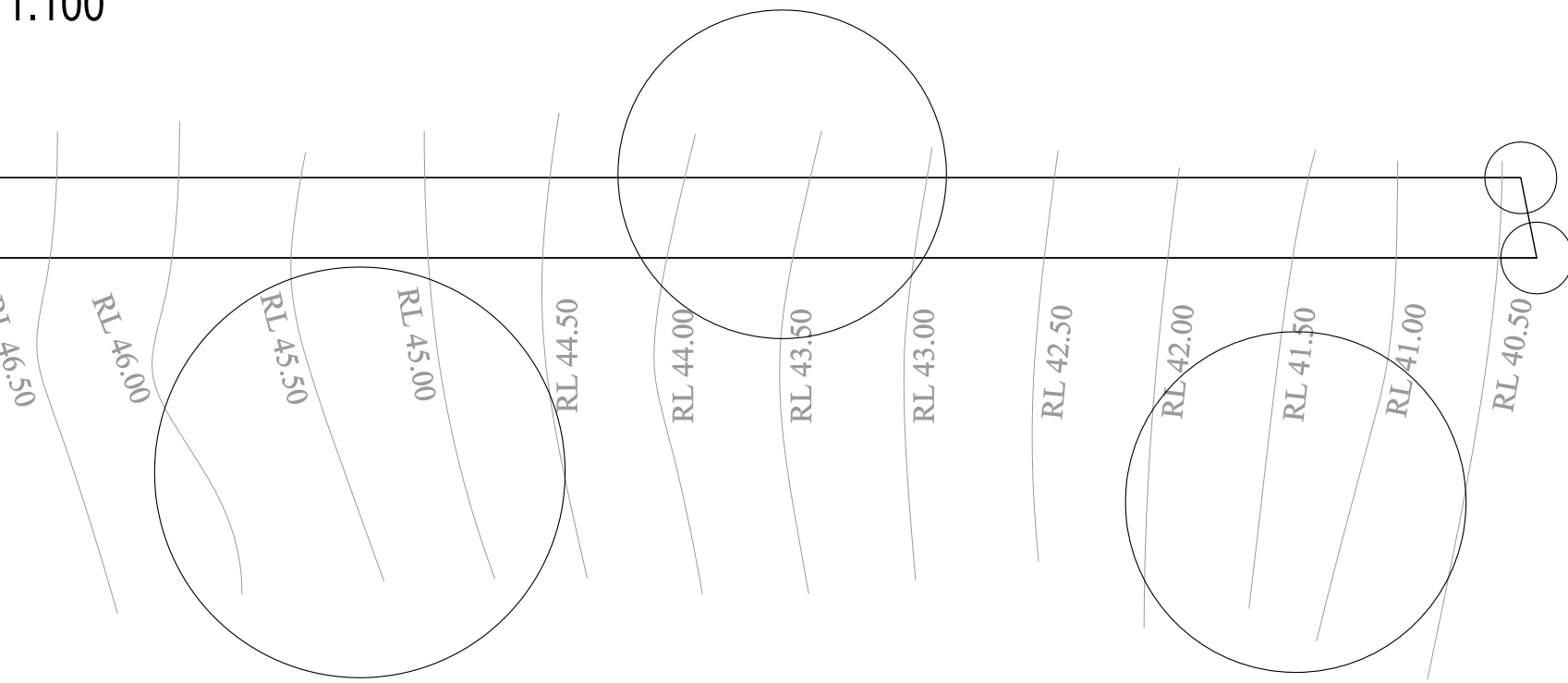
ROOF AREA
A = 218 m²

EAVES GUTTER
MIN 125 mm WIDE x 65 mm SEEP



LOT 2 ROOF- STORMWATER DRAINAGE PLAN

1:100



LOT 2 GROUND FLOOR- STORMWATER DRAINAGE PLAN

1:100

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A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021



Client JOHN MIROSEVICH

Project LOT 1-4 ELIMATTA RD ,
MONA VALE, NSW

Title LOT 2 STORM WATER DRAINAGE PLAN

ISSUED FOR
APPROVAL

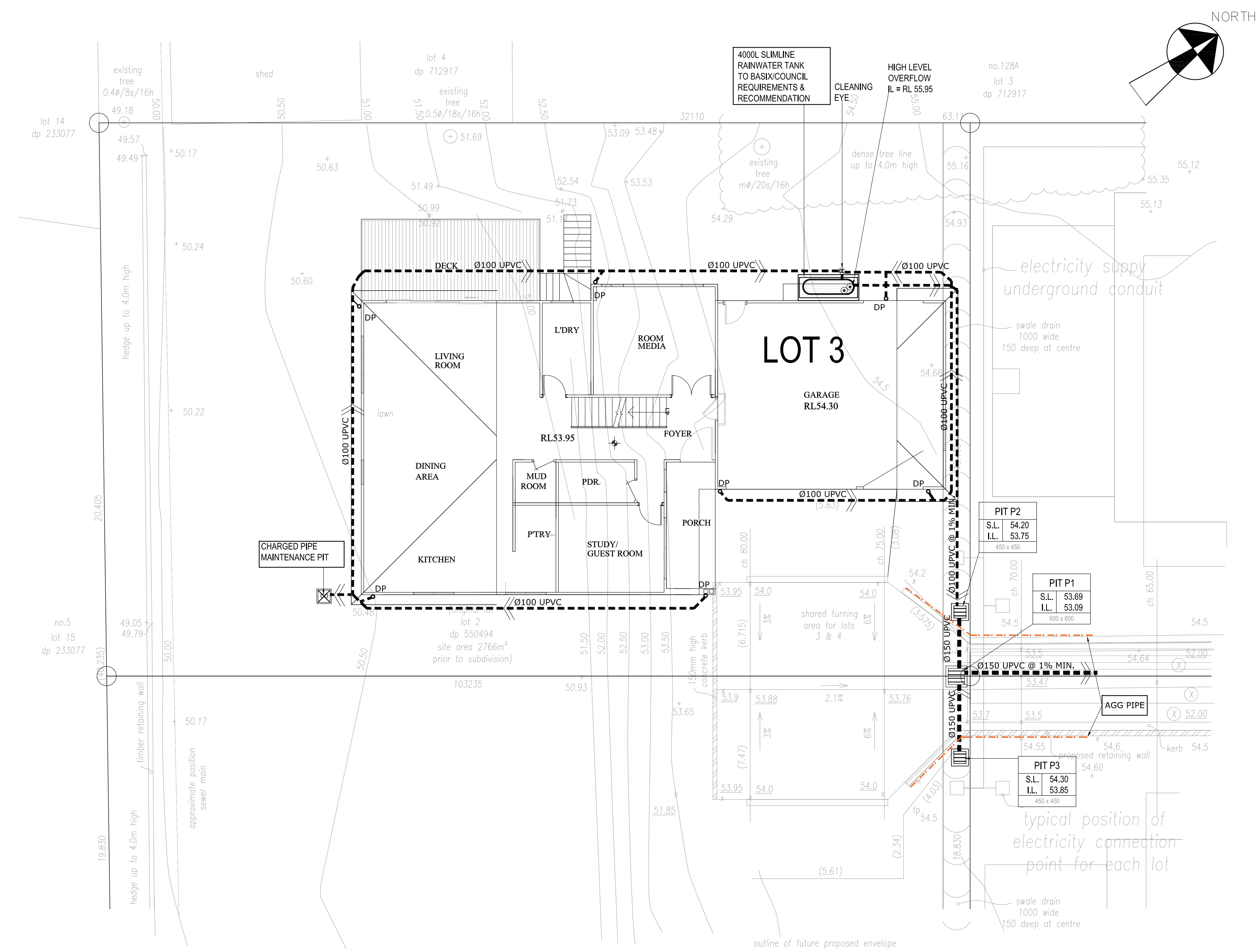
Project Number
21H560

Design Z.K
Drawn M.K

Drawing Number
SW 02

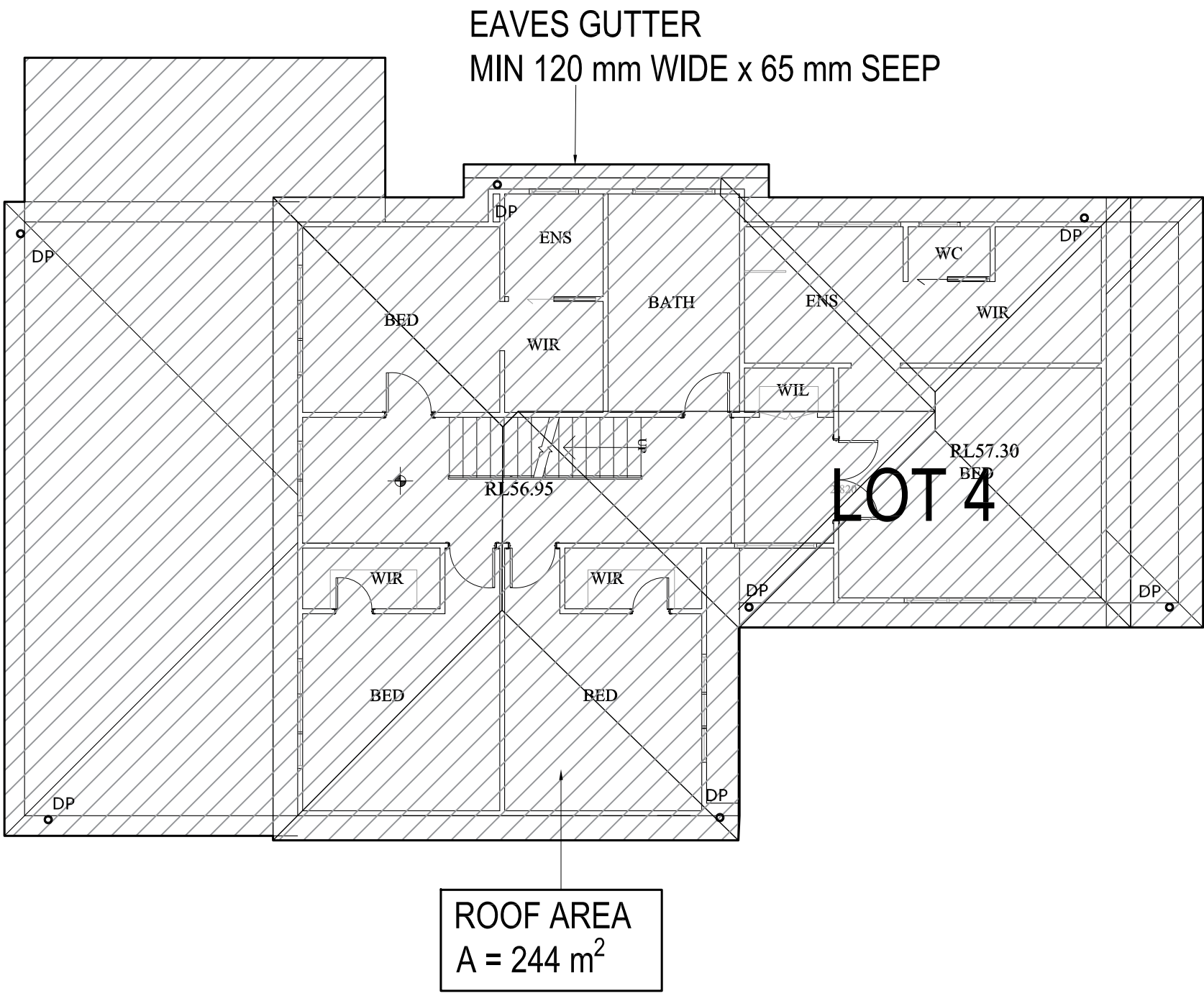
A1





LOT 3 GROUND FLOOR- STORMWATER DRAINAGE PLAN

1:100



LOT 2 ROOF- STORMWATER DRAINAGE PLAN

1:100

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A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021

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0413 863 363 michael@hyten.com.au www.hyten.com.au

Client JOHN MIROSEVICH

Project LOT 1- 4 ELIMATTA RD ,
MONA VALE, NSW

Title LOT 3 STORM WATER DRAINAGE PLAN

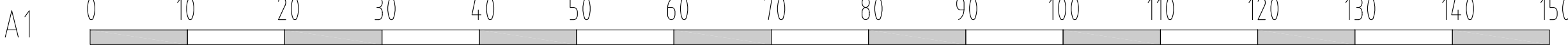
ISSUED FOR APPROVAL

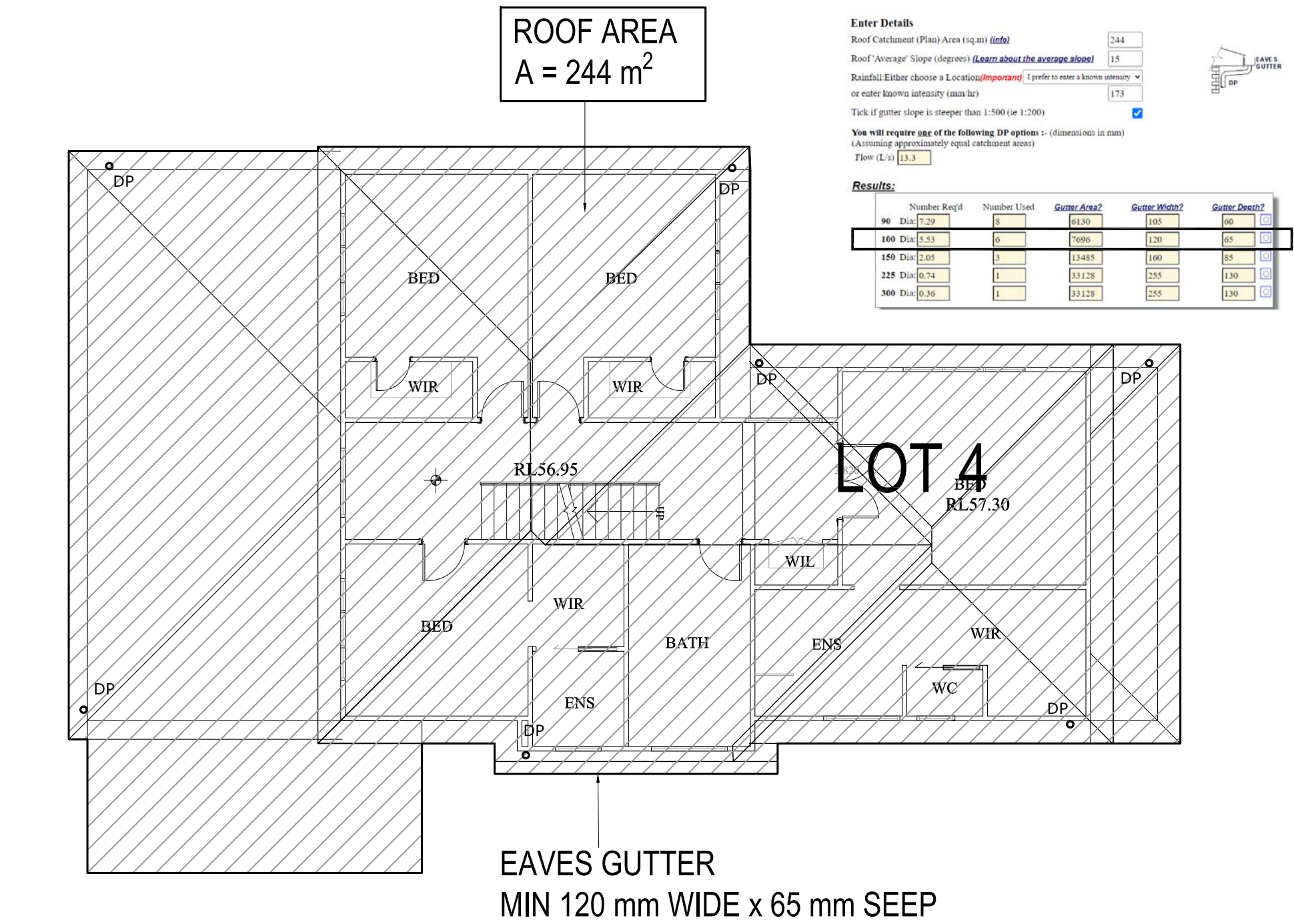
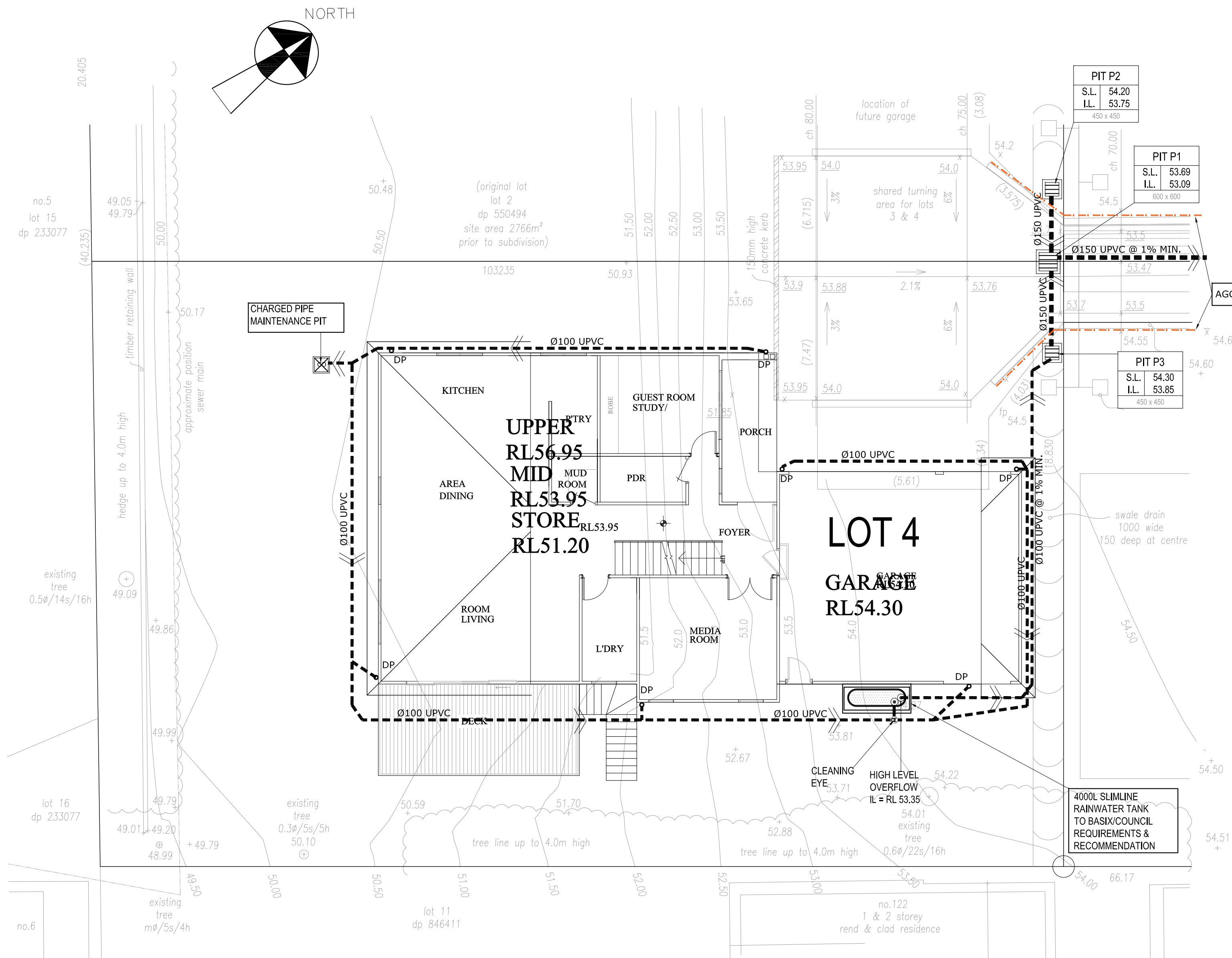
Project Number 21H560

Design Z.K

Drawn M.K

Drawing Number SW 03





LOT 4 GROUND FLOOR- STORMWATER DRAINAGE PLAN

1:100

LOT 4 ROOF- STORMWATER DRAINAGE PLAN

1:100

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A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021



Client JOHN MIROSEVICH

Project LOT 1-4 ELIMATTA RD ,
MONA VALE, NSW

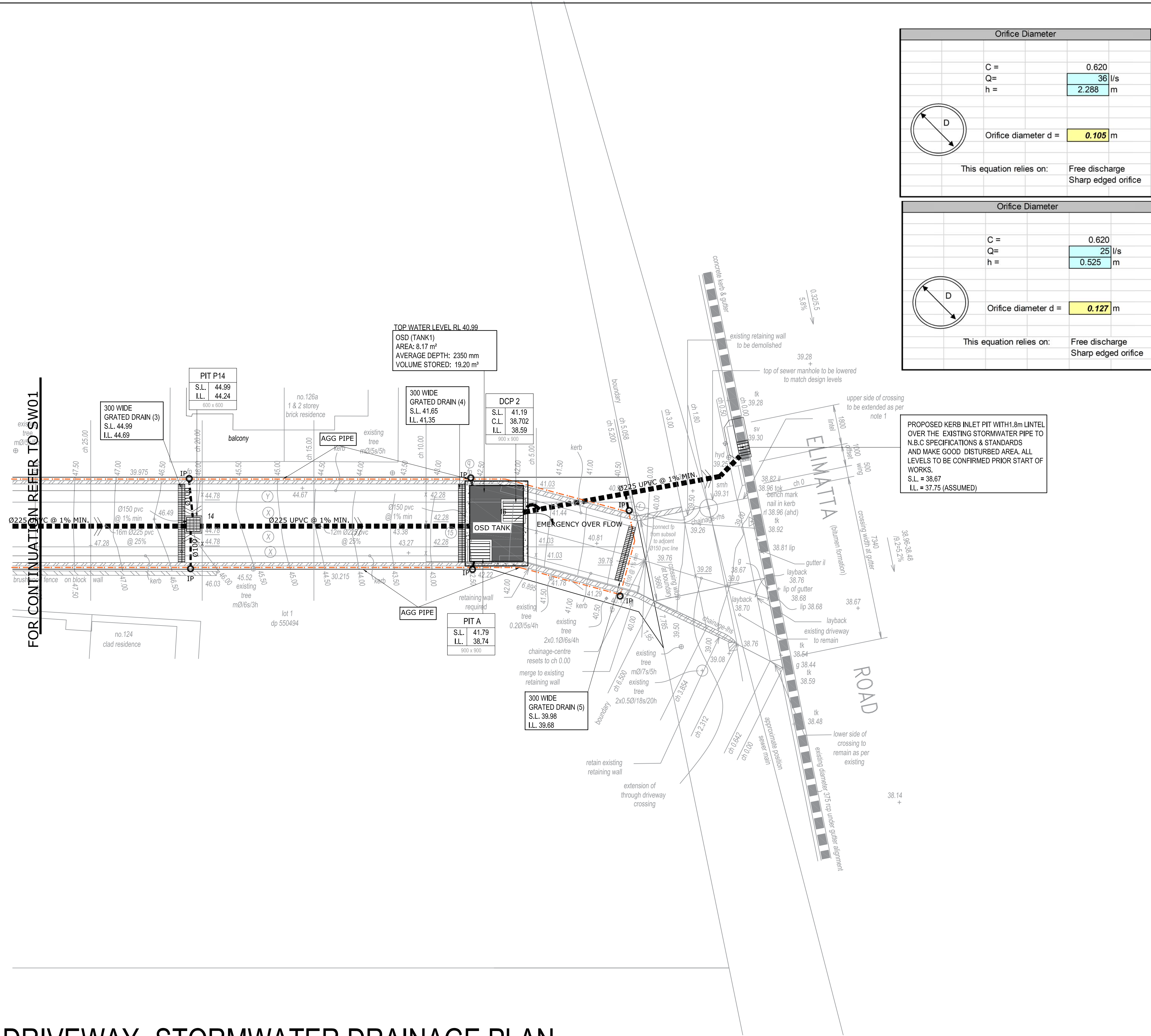
Title LOT 4 STORM WATER DRAINAGE PLAN

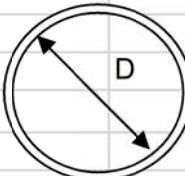
ISSUED FOR
APPROVAL

Project Number
21H560

Design Z.K
Drawn M.K

Drawing Number
SW 04



Orifice Diameter	
C =	0.620
Q=	36 l/s
h =	2.288 m
	
Orifice diameter d =	0.105 m
This equation relies on:	Free discharge Sharp edged orifice

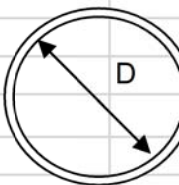
Orifice Diameter			
C =	0.620		
Q=	25 l/s		
h =	0.525 m		
			
Orifice diameter d =	0.127 m		
This equation relies on:		Free discharge Sharp edged orifice	

TABLE 1					
PRE AND POST DEVELOPMENT FLOWS					
ARI	PRE DEVELOPED, PSD (L/s)	POST DEVELOPED FLOWS			
		OSD TANK LOWER ORIFICE	OSD TANK UPPER ORIFICE	BYPASS	TOTAL
5 YEAR	49	26	0	22	48
20 YEAR	82	33	0	44	82
100 YEAR	130	36	25	69	130

TABLE 2		
TANK SIZING		
	DIMENSIONS	VOLUME
UNITS	m	LITRES
OSD TANK	2.4(H)x3.2(L)x2.4(W)	18,432kL

OSD CALCULATION FROM STELLEN CONSULTING (DA APPROVAL)

DESIGN SUMMARY UNIT
TOTAL VOLUME REQUIRED AS PER DA APPROVED PLAN (STELLEN CONSULTING)
V = 18,432 m³
VOLUME PROVIDED (V) = 19.20 m³

PSD FOR LOWER ORIFICE = 36 L/s
HEAD (H) = 2.288 m TO CENTRE LINE
ORIFICE DIAMETER REQUIRED = 105mm

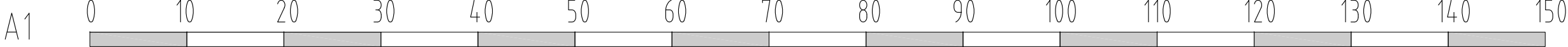
PSD FOR UPPER ORIFICE = 25 L/s
HEAD (H) = 0.525 m TO CENTRE LINE
ORIFICE DIAMETER REQUIRED = 127mm

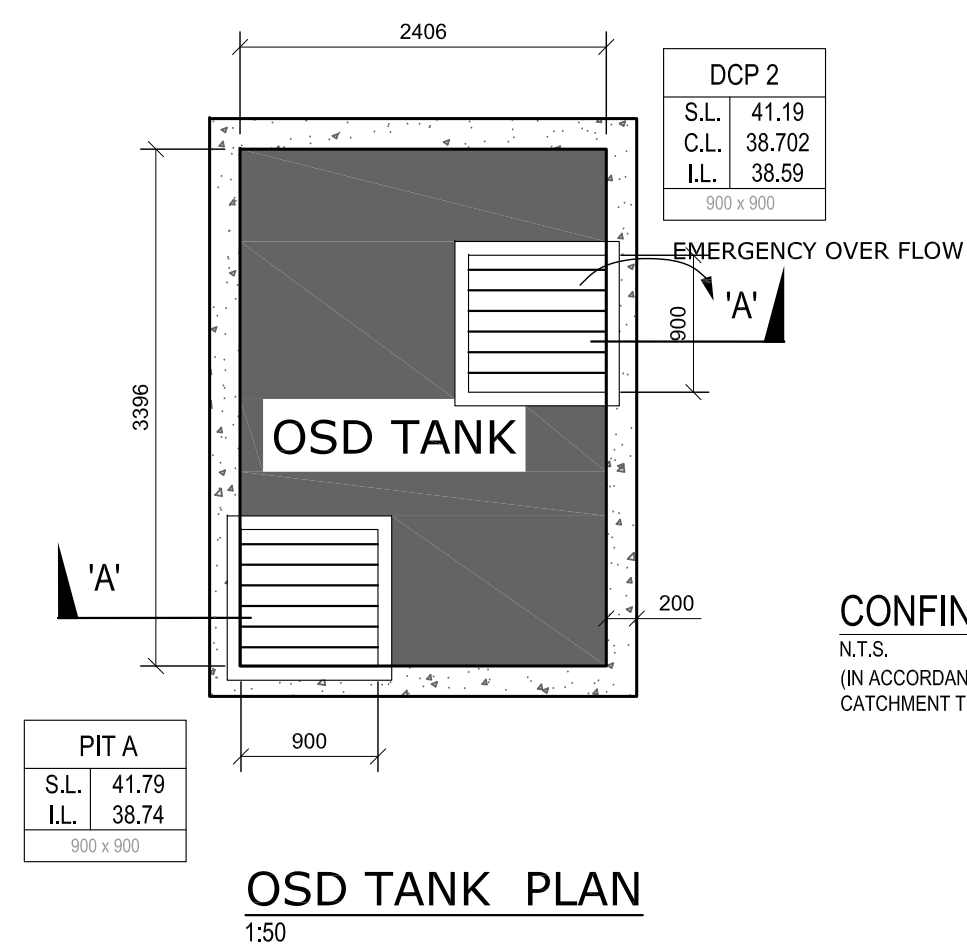
DRIVEWAY- STORMWATER DRAINAGE PLAN

1:100

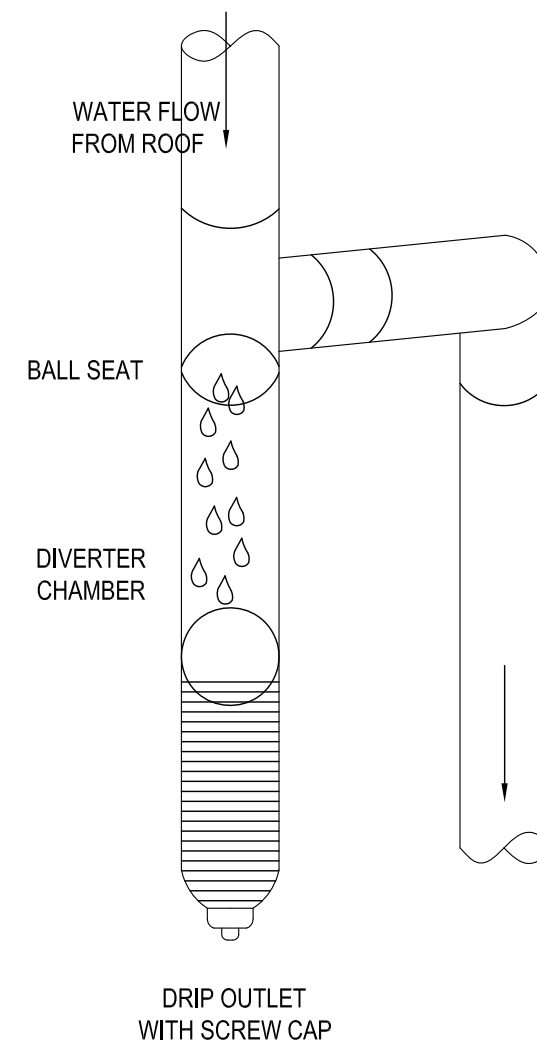
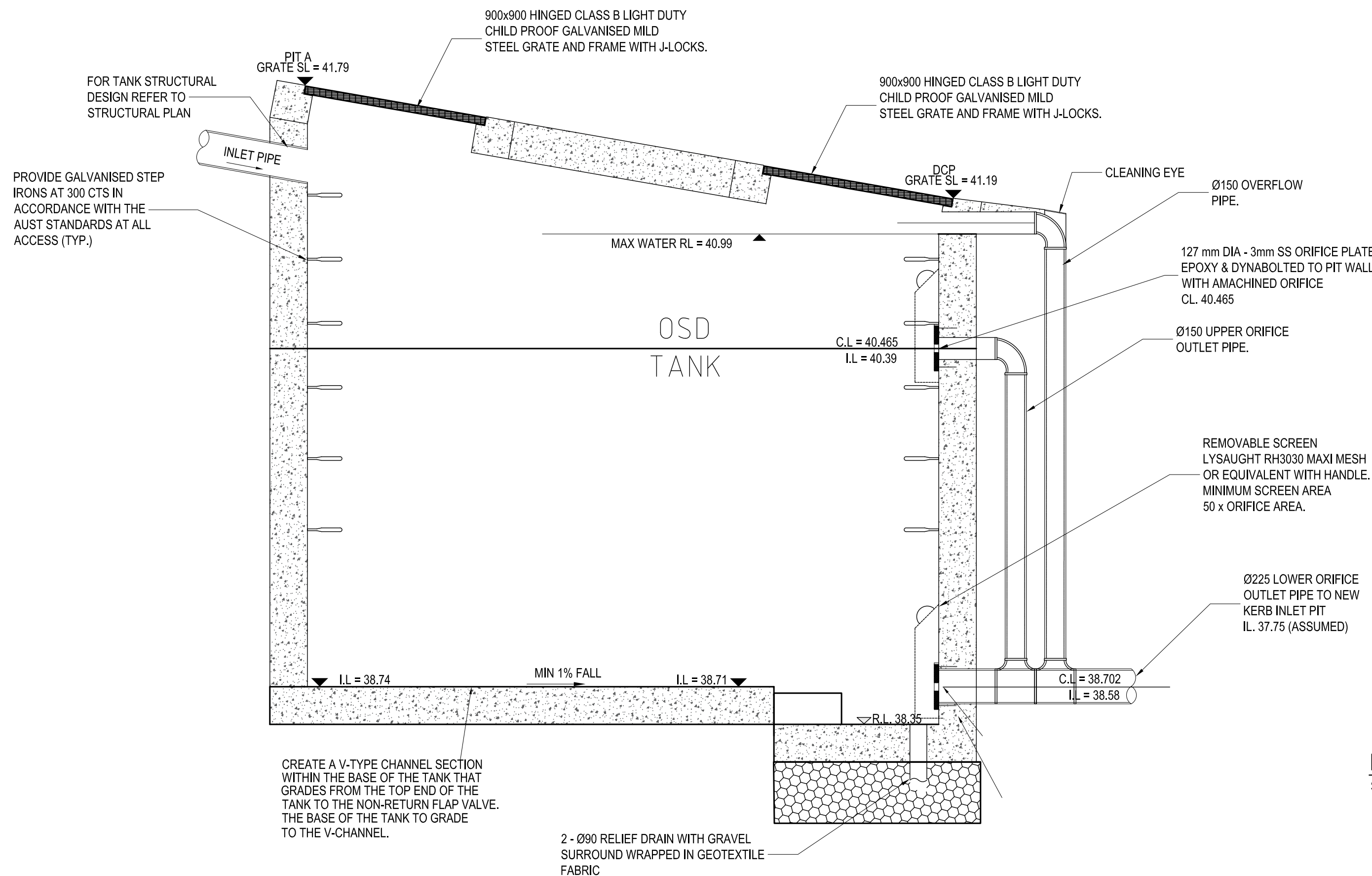
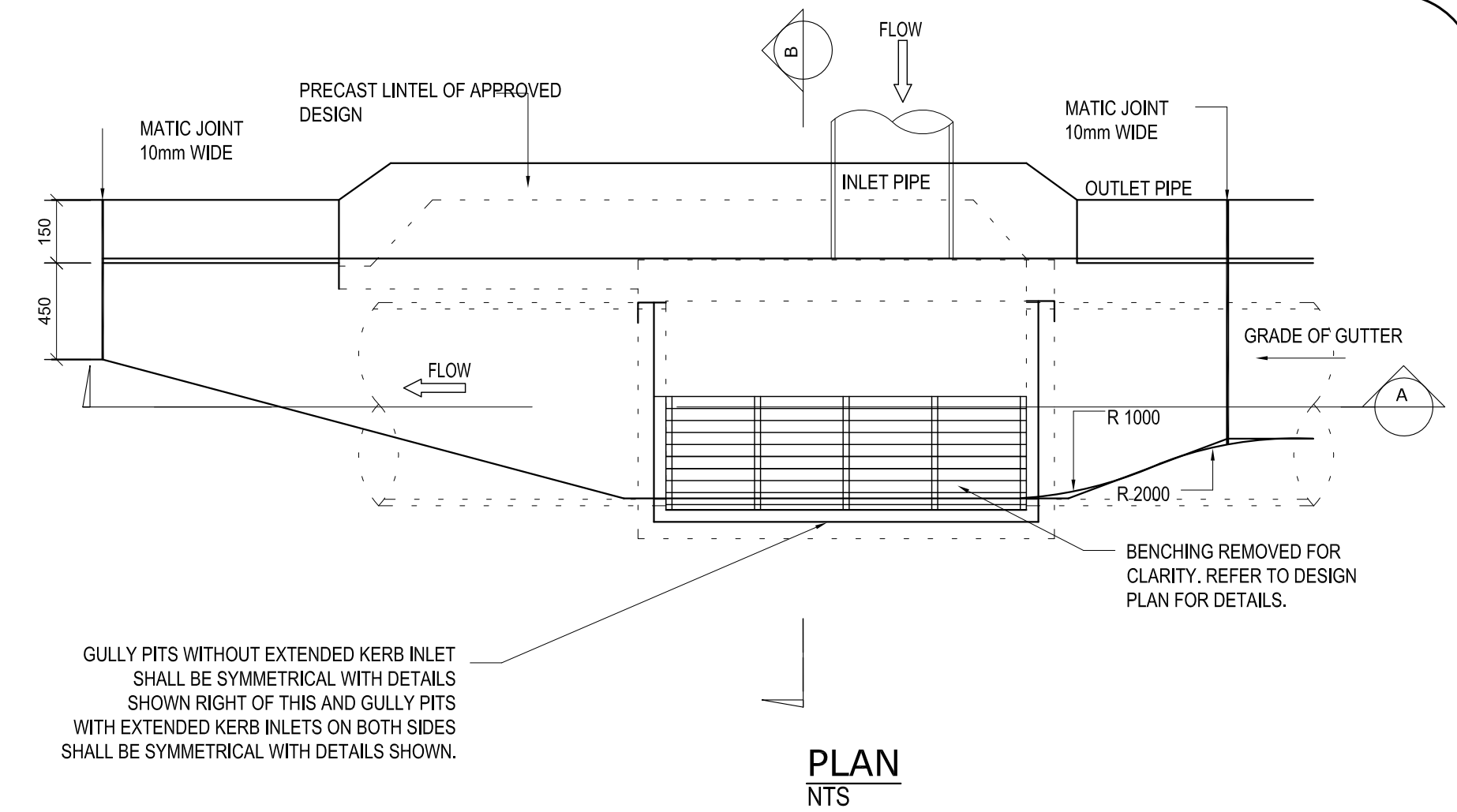
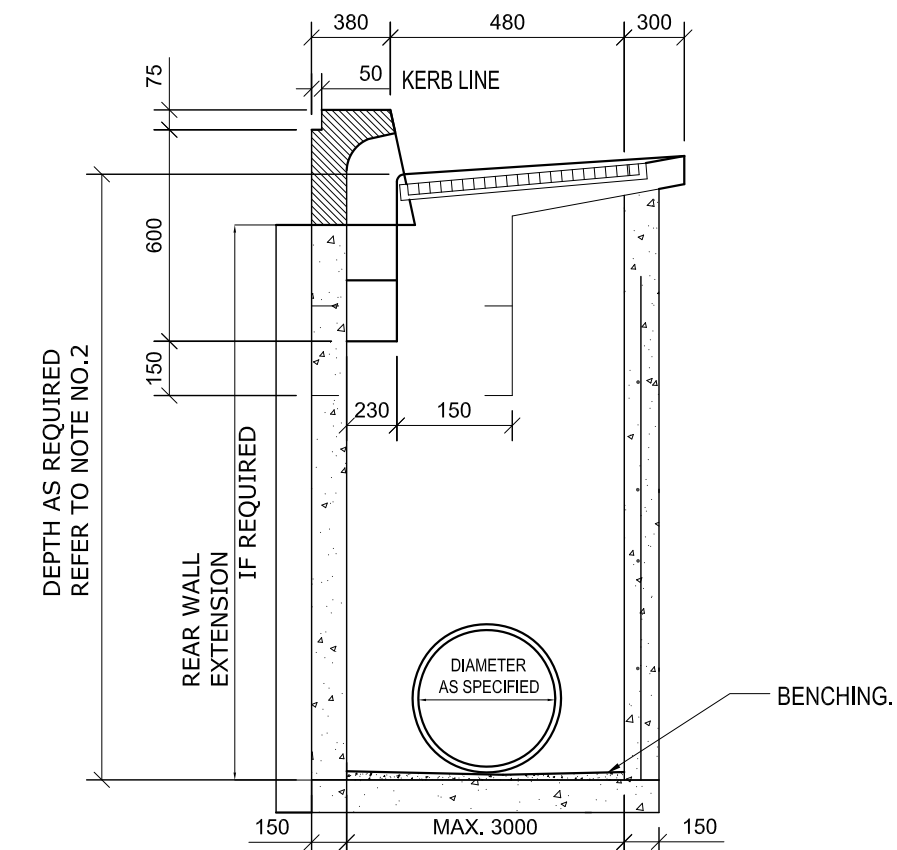
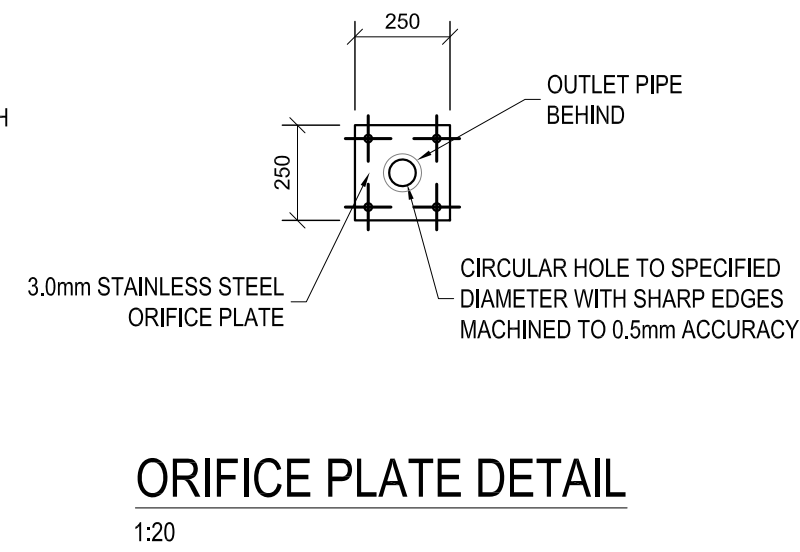
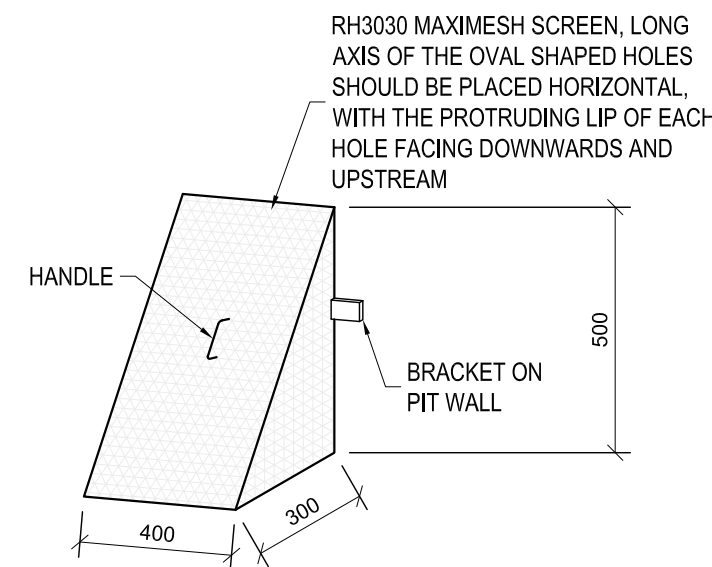
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							Project	LOT 1-4 ELIMATTA RD , MONA VALE, NSW					Z.K	M.K		
							ISSUED FOR APPROVAL		Project Number		Drawing Number					
	A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021				21H560		SW 05					

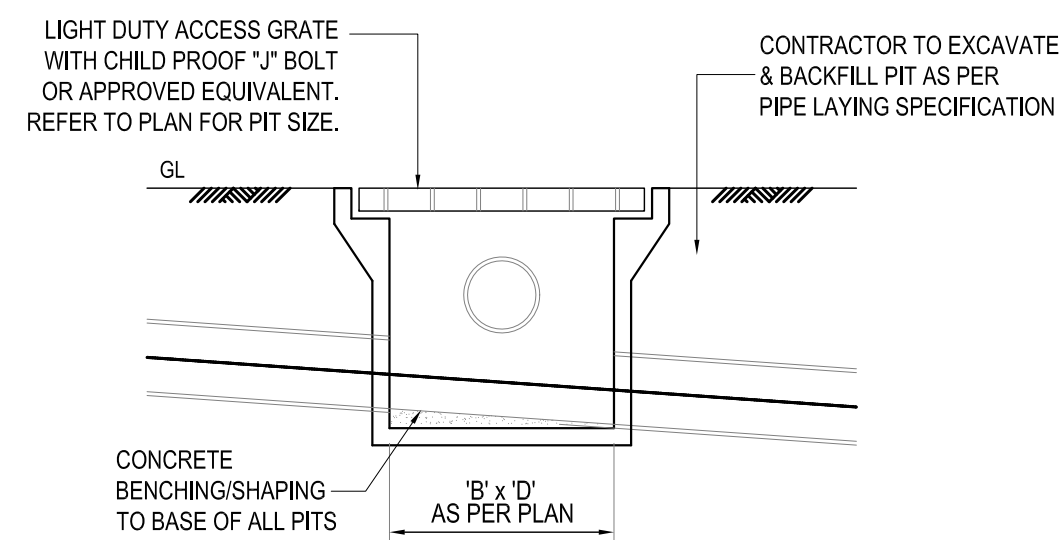




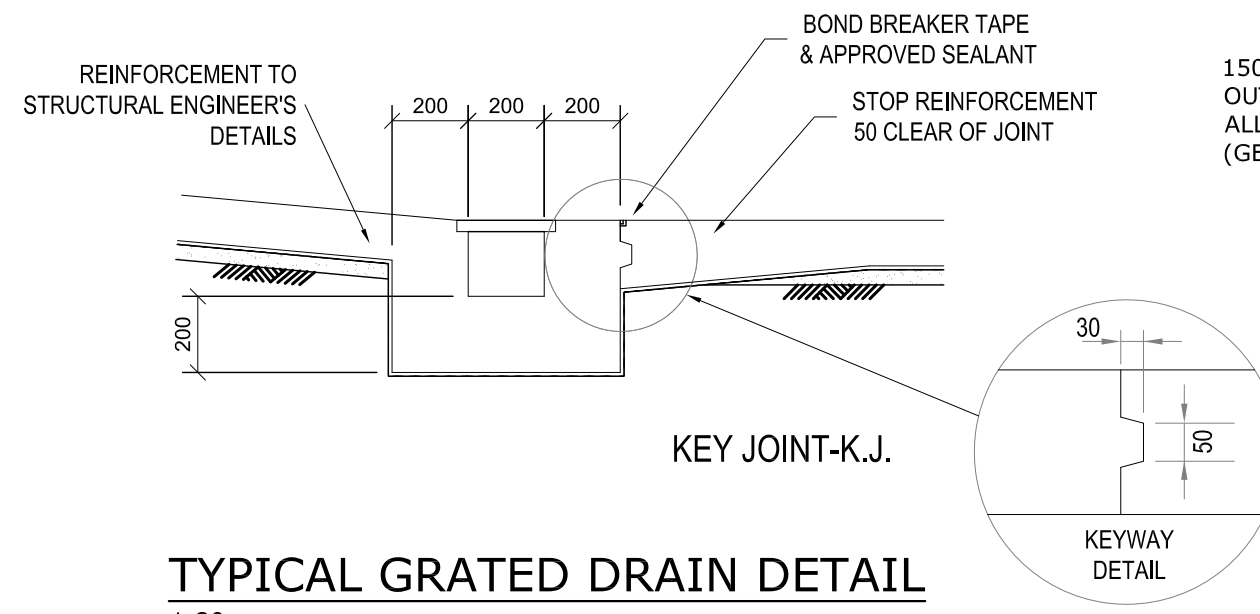
CONFINED SPACE WARNING SIGN
N.T.S.
(IN ACCORDANCE WITH THE UPPER PARRAMATTA RIVER
CATCHMENT TRUST)



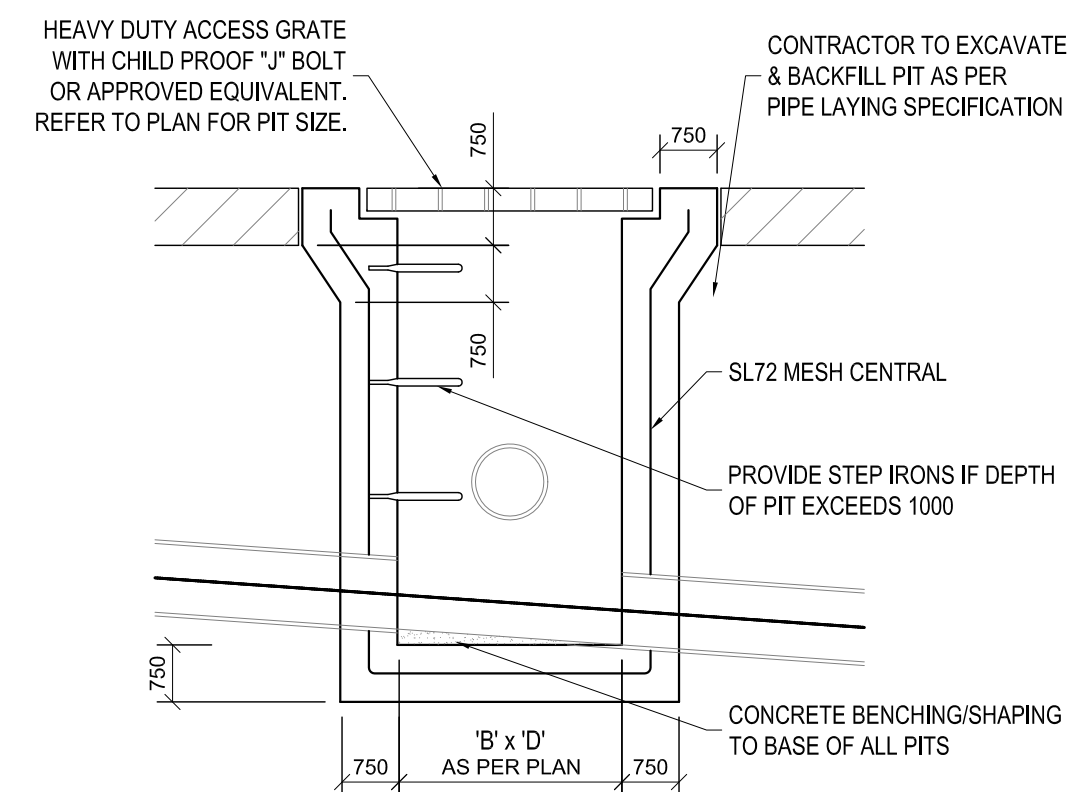
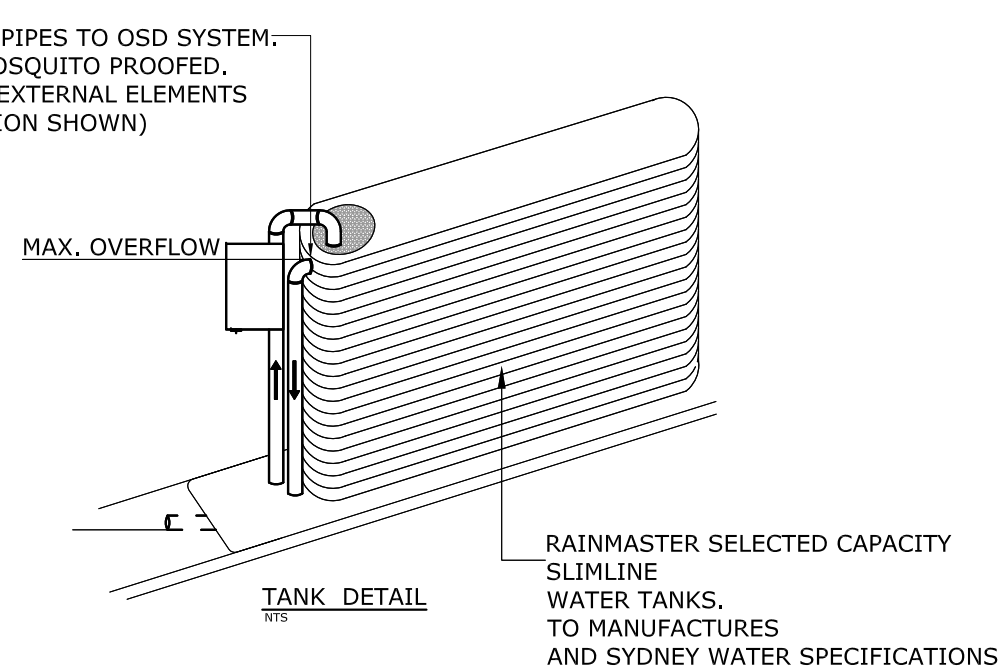
FIRST FLUSH OF CONTAMINATED WATER IS DIVERTED INTO CHAMBER.
DIVERTER DESIGNED TO CAUSE MINIMUM OF 1mm OF INITIAL RUNOFF
FROM ROOF AREA TO BYPASS RAINWATER TANK(S)



TYPICAL SURFACE INLET PIT DETAIL



TYPICAL GRATED DRAIN DETAIL
1:20



TYPICAL SURFACE INLET PIT DETAIL

1:100
TYPICAL FOR ALL PITS IN DRIVEWAY/CARPAK AREAS.

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A	ISSUED FOR C.C. APPROVAL	J.J.	M.A.	02.11.2021



Client **JOHN MIROSEVICH**

Project **LOT 1- 4 ELIMATTA RD ,
MONA VALE, NSW**

Title

SECTIONS AND DETAILS

ISSUED FOR
APPROVAL

Project Number
21H560

Design **Z.K** Drawn **M.K**

Drawing Number
SW 06

