





## RISING MAIN

111

CATCHMENT = 130m

PUMP 2 - DUTY PUMP

CONTRIBUTING AUTHOR 470--3

$$Q = C \cdot I \cdot A / 3600$$
$$V = 16.13 \text{ m}^3$$


SECTION VIEW

## DETAIL

[illegible]

**JIM SELIM & DIA GABRA**

CLIENT

17010173



Baulkham Hills

Email [western@northrop.com.au](mailto:western@northrop.com.au) ABN 81 094 433 100

**TURRAMURRA**

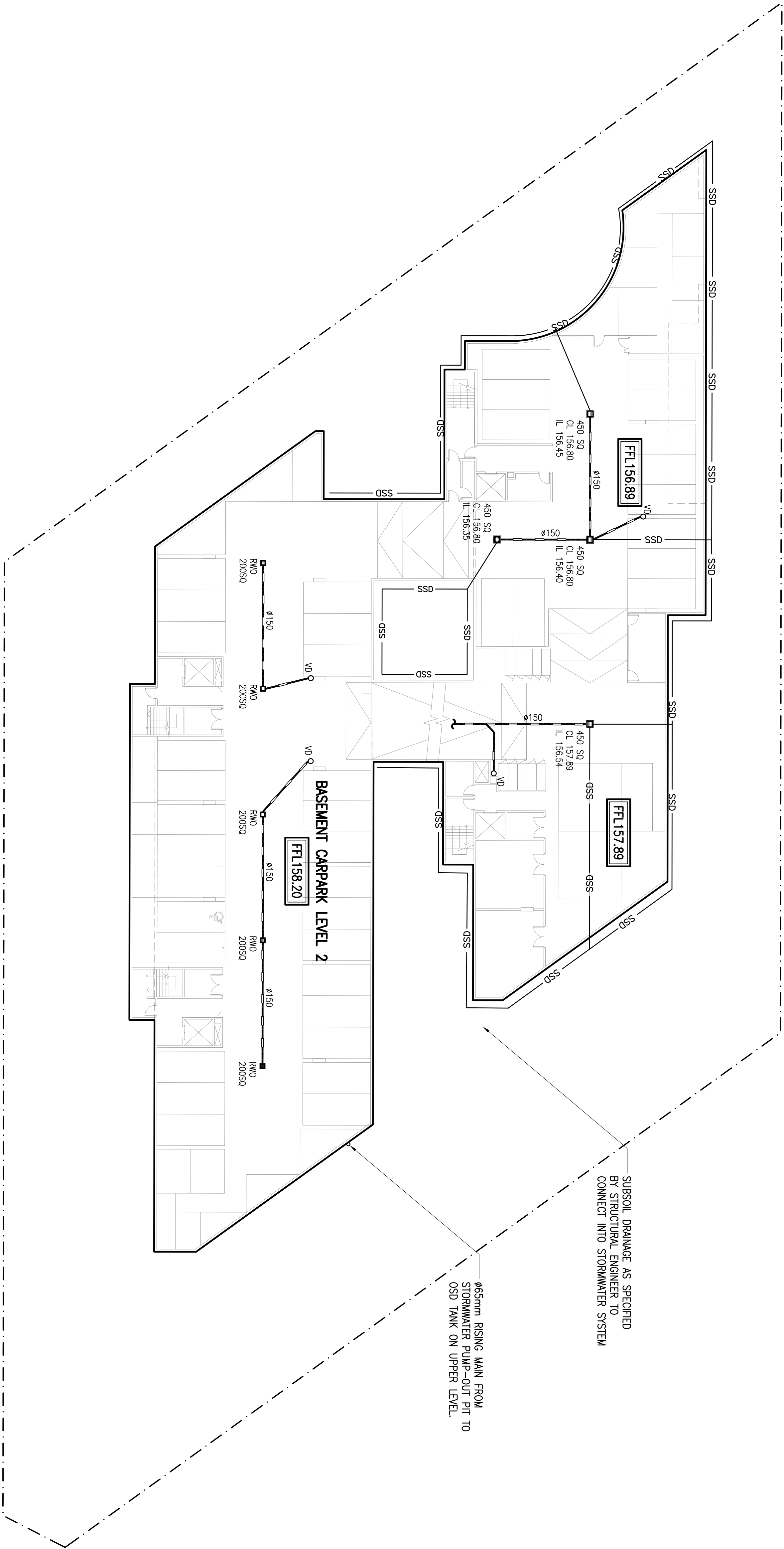
## BASEMENT CARPARK

DRAWING SHEET SIZE = A1

NOT FOR CONSTRUCTION

LEGEND

- STORMWATER PIPE
- SUB-SOIL DRAINAGE PIPE
- DOWNPIPE
- VERTICAL DROPPER
- RAINWATER OUTLET
- STORMWATER PIT



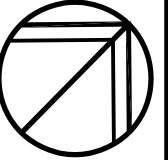
DRAWN: D.COUNTER DESIGNED: C.NOYATI JOB MANAGER: S.FRYER VERIFIER:

ISSUE	AMENDMENT	BRAUN	VERB	APPROD	DATE
1	ISSUED FOR CO-ORDINATION			CN	31/01/11
2	ISSUED FOR CO-ORDINATION			CN	02/02/11
3	ISSUED FOR DEVELOPMENT APPLICATION			CN	01/03/11

CLIENT  
JIM SELIM & DIA GABRA

ARCHITECT

MARCHENTZ



0 2 4 6 8 10m  
SCALE 1:400 @ A3



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PROJECT

1179-1181 PACIFIC HWY  
& 2-6 WARRANGI ST  
TURRAMURRA

DRAWING TITLE

CONCEPT STORMWATER  
MANAGEMENT PLAN -  
BASEMENT CARPARK  
LEVEL 2

JOB NUMBER

11037

DRAWING NUMBER

DA03

REVISION


3

DRAWING SHEET SIZE = A1

NOT FOR CONSTRUCTION



## SUSPENDED STORMWATER PIPE



STORMWATER PIPE

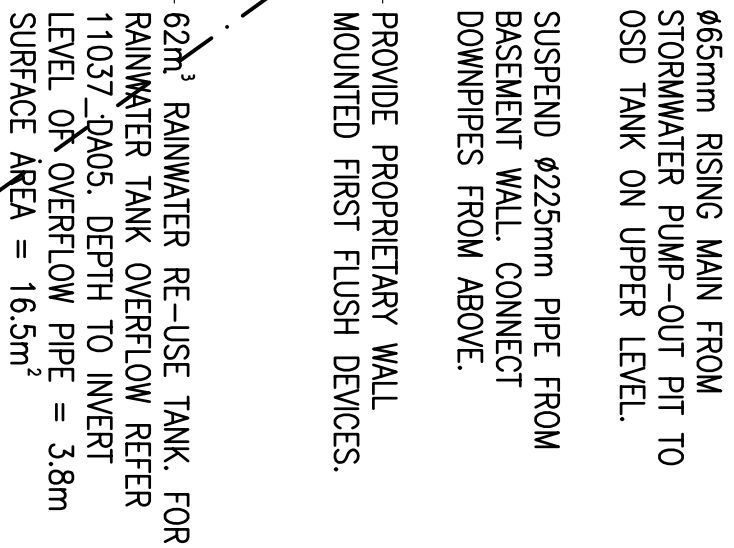
SSD — SUB-SOIL DRAINAGE PIPE

DOWNPIPE

### VERTICAL DROPPER

RAINWATER OUTLET

STORMWATER PIT



CLIENT

**JIM SELIM & DIA GABRA**

0 2 4 6 8 10m  
SCALE 1:200 @ A1

0 2 4 6 8 10m  
SCALE 1:400 @ A3

AWARDS FOR EXCELLENCE IN CONSTRUCTION  
9th ANNUAL AWARDS FOR EXCELLENCE IN CONSTRUCTION  
ACMA PRESENTS  
BRISBANE 2009

PROJECT  
1179-1181 PACIFIC HWY  
& 2-6 WARRANGI ST  
TURRAMURRA







## LEGEND

FINISHED FLOOR LEVEL

### PLANTER BOX

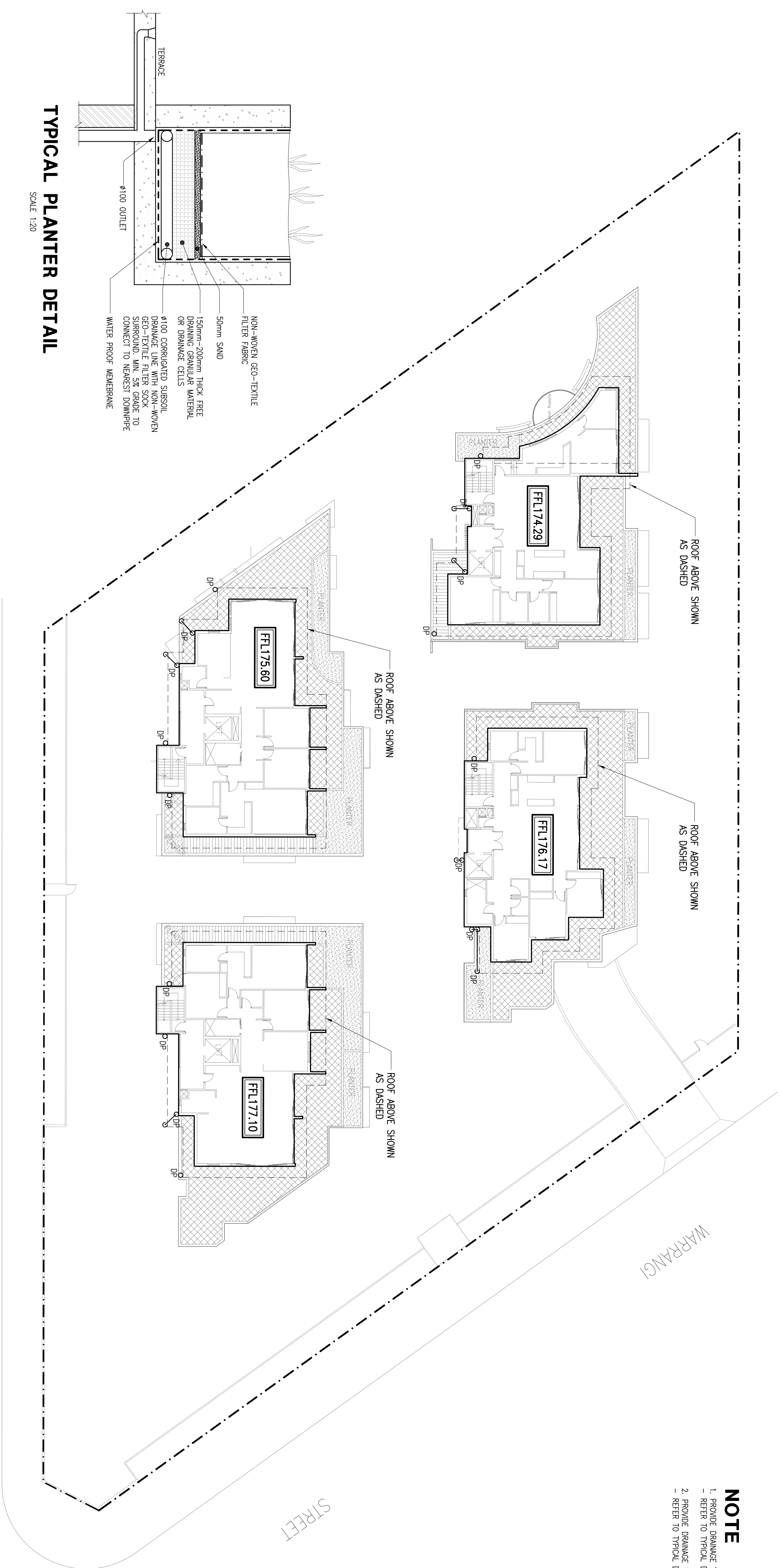
BALCONY AREA

PROPOSED DOWNPIPE

PROPERTY BOUNDARY LINE

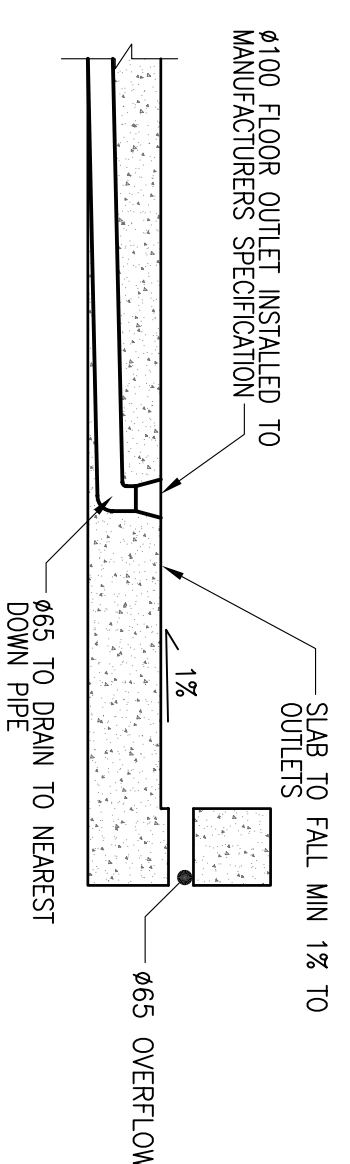
## NOTE

1. PROVIDE DRAINAGE TO ALL PLANTER BOXES  
- REFER TO TYPICAL DETAIL.
2. PROVIDE DRAINAGE TO ALL BALCONY AREAS  
- REFER TO TYPICAL DETAIL.



## TYPICAL PLANTER DETAIL

SCALE 1:20




## BALCONY OUTLET DETAIL


SCALE 1:20


[illegible]

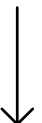


LEGEND

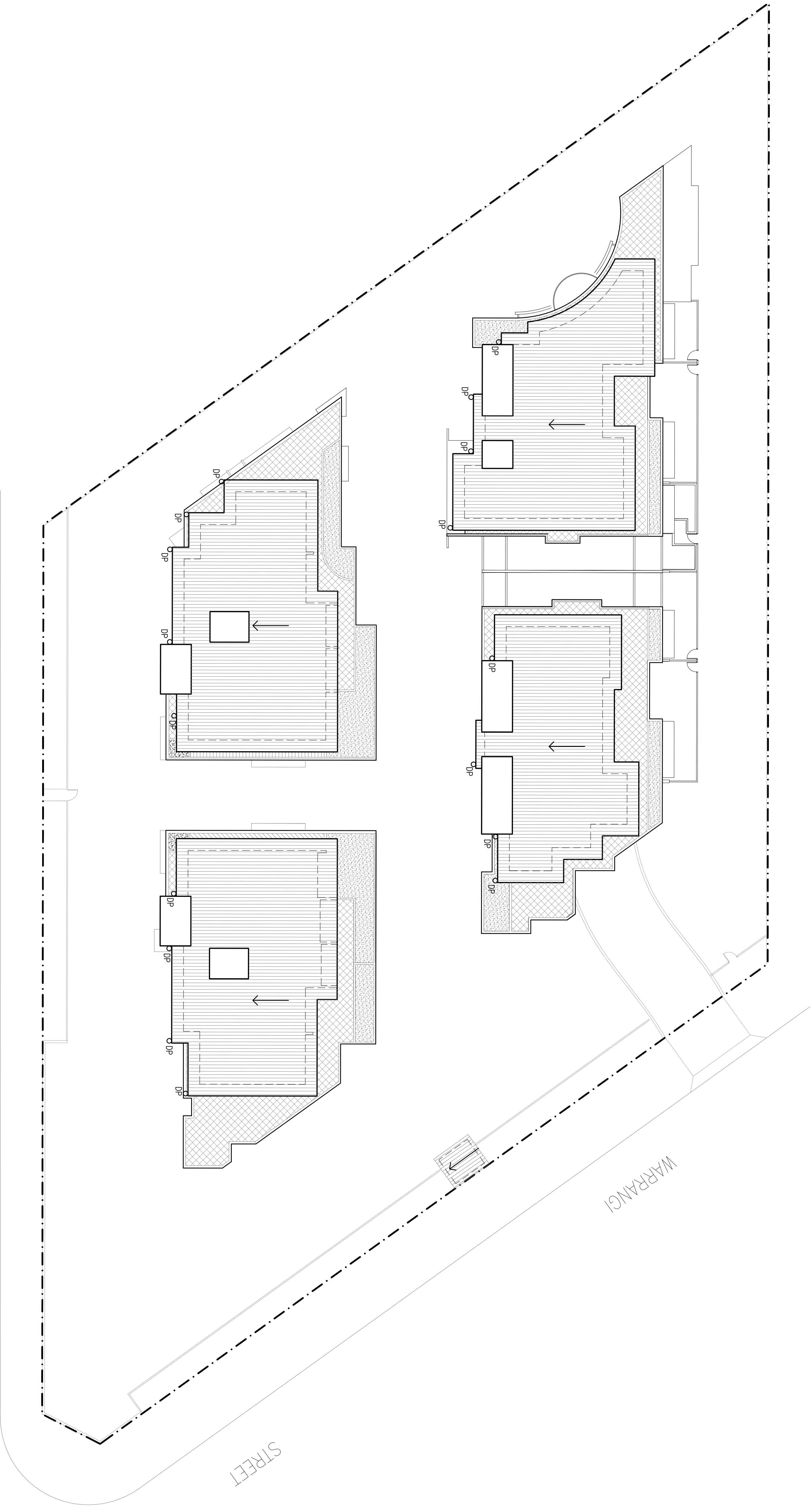
- 

PLANTER BOX
- 

BALCONY AREA
- 

PROPOSED DOWNPIPE
- 

DIRECTION OF ROOF SLOPE



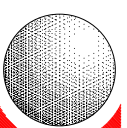
ISSUE		AMENDMENT		DRAWN		DESIGNED		JOB MANAGER		VERIFIER					
1	ISSUED FOR CO-ORDINATION			CN	31/01/11	CLIENT <b>JIM SELIM &amp; DIA GABRA</b>									
2	ISSUED FOR DEVELOPMENT APPLICATION			CN	02/02/11										
3	ISSUED FOR DEVELOPMENT APPLICATION			CN	01/03/11										
						ARCHITECT <b>MARCHENTZ</b>									
Drawing not to be used for construction unless a written approval has been issued. The integrity of this drawing remains with Marchentz Consulting Engineers Pty Ltd.															

0 2 4 6 8 10m

SCALE 1:200 @ A1

0 2 4 6 8 10m

SCALE 1:400 @ A3

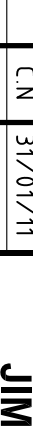


**NORTHROP**  
Bringing people, ideas & engineering together

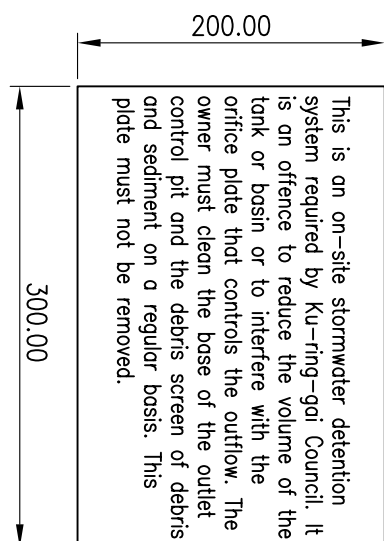
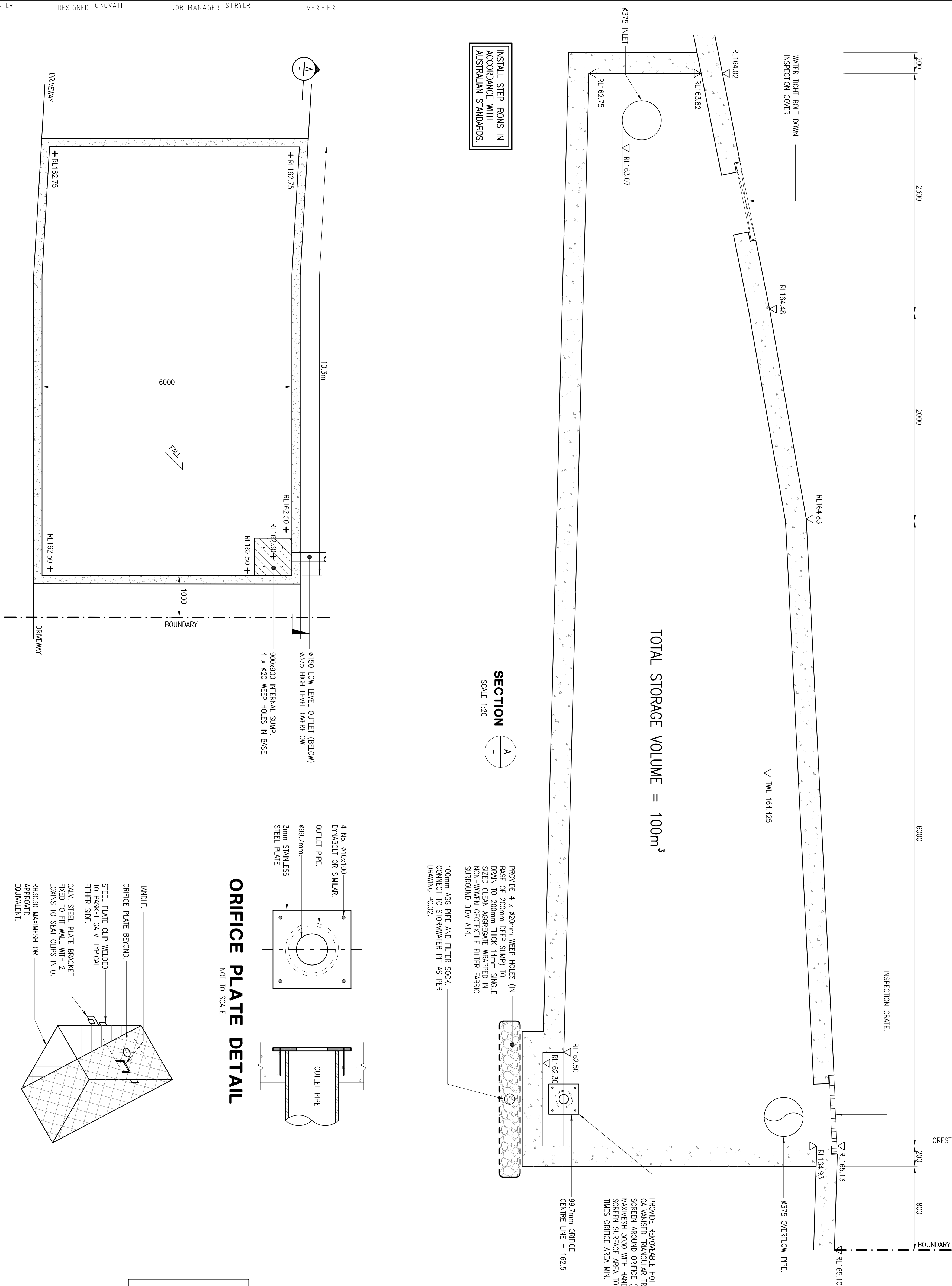
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Suite 203, 10 Century Circuit, Ph. (02) 9634 8033  
Baulkham Hill NSW 2153 Fax (02) 9634 6099  
Email [weston@northrop.com.au](mailto:weston@northrop.com.au) ABN 61 004 433 100

PROJECT		DRAWING TITLE		JOB NUMBER	
1179-1181 PACIFIC HWY & 2-6 WARRANGI ST TURRAMURRA		CONCEPT STORMWATER MANAGEMENT PLAN - ROOF		11037	
				DRAWING NUMBER	REVISION
				DA07	3
DRAWING SHEET SIZE = A1					

NOT FOR CONSTRUCTION

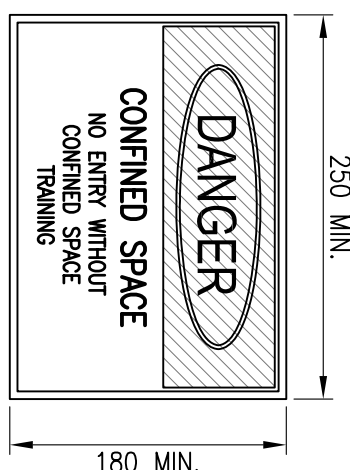
ISSUE	1	DATE	CN 31/01/11	CLIENT <b>JIM SELIM &amp; DIA GABRA</b>	ARCHITECT <b>MACHKENZIE</b>	 <b>NORTHROP</b> Bringing people, ideas & engineering together Bankham Hills 1779-1181 PACIFIC HWY & 2-6 WARRANGI ST TURRAMURRA	PROJECT <b>1179-1181 PACIFIC HWY &amp; 2-6 WARRANGI ST TURRAMURRA</b>	DRAWING TITLE <b>DETAIL SHEET</b>	JOB NUMBER <b>11037</b>		
AMENDMENT		DATE	CN 02/02/11							DRAWING NUMBER <b>DA08</b>	REVISION <b>3</b>
ISSUED FOR CO-ORDINATION	2	DATE	CN 01/03/11								
ISSUED FOR DEVELOPMENT APPLICATION	3										
2. This drawing is the property of MACHKENZIE ARCHITECTS and is to be used only for the project and site described herein. It is not to be used for any other purpose without the written consent of MACHKENZIE ARCHITECTS.											

NOT FOR CONSTRUCTION



## OSD WARNING SIGN

NOT TO SCALE



COLOURS:	
'DANGER' AND BACKGROUND	WHITE
ELLIPTICAL AREA	RED
RECTANGLE CONTAINING ELLIPSE	BLACK
OTHER LETTERING AND BORDER	BLACK

## CONFINED SPACE WARNING

NOT TO SCALE

1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

2. MINIMUM DIMENSIONS OF THE SIGN – 300mm x 450mm (LARGE ENTRIES, SUCH AS DOOR) – 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

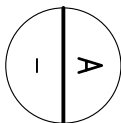

3. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINIUM OR POLYPROPYLENE.

# RAINWATER RE-USE NOTES

1. RAWWATER TO BE PROVIDED FOR WASHING MACHINE, TOILET FLUSHING, GARDEN WATERING AND CAR WASHING.
2. PROVIDE PUMP AND SEPARATE RETICULATION SYSTEM FOR ABOVE SERVICES.
3. FIRST FLUSH DEVICE TO BE PROVIDED ON ALL INLETS TO RAWWATER RE-USE TANK.
4. PROVIDE MAINS BY-PASS SYSTEM TO ACTIVATE WHEN TANK BECOMES EMPTY OR IF PUMP FAILURE OCCURS

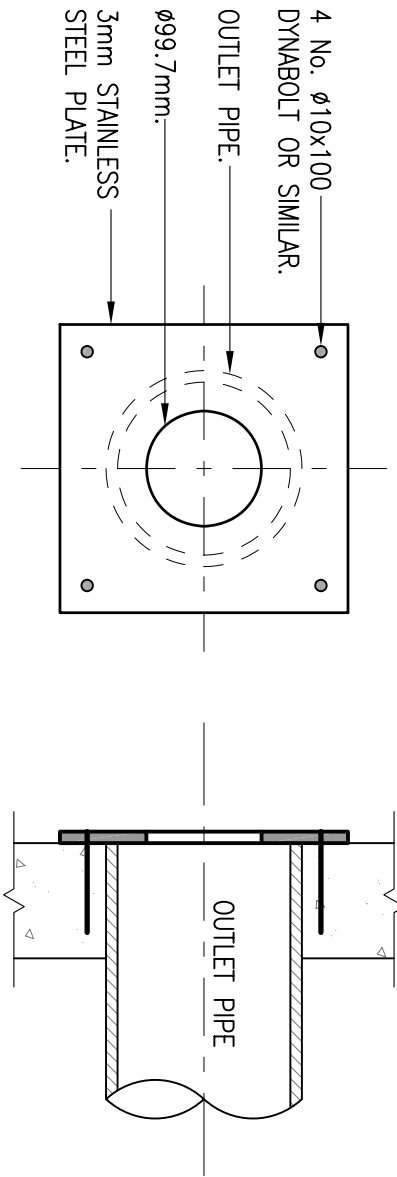
**SECTION**

SCALE 1:20



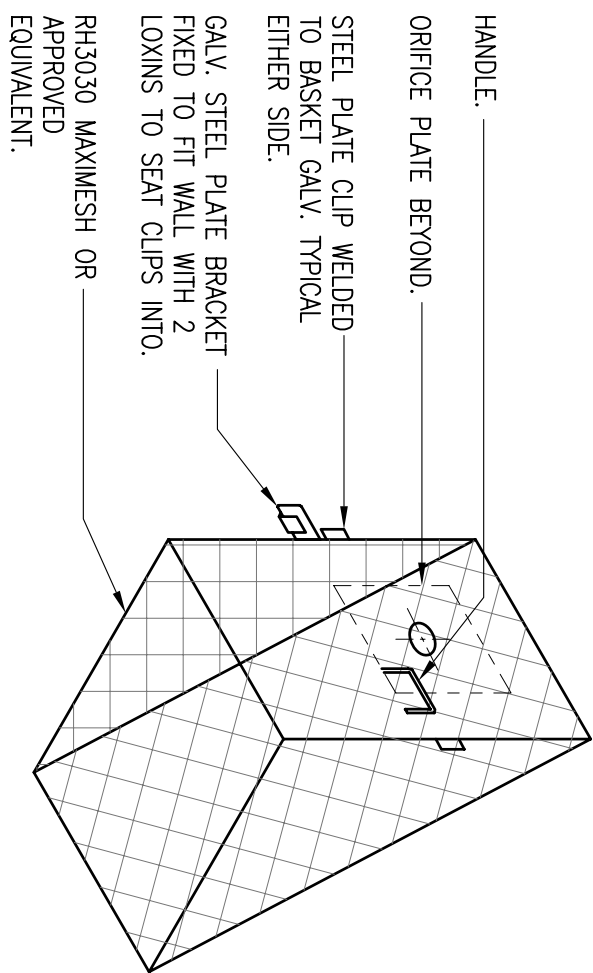
PROVIDE 4 x Ø20mm WEEP HOLES (IN BASE OF 200mm DEEP SUMP) TO DRAIN TO 200mm THICK 14mm SINGLE SIZED CLEAN AGGREGATE WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC SURROUND BIDM A14.

100mm AGG PIPE AND FILTER SOCK. -  
CONNECT TO STORMWATER PIT AS PER  
DRAWING PC.02.



## ORIFICE PLATE DETAIL

NOT TO SCALE



## TRASH SCREEN DETAIL

NOT TO SCALE

TOTAL STORAGE VOLUME = 100m<sup>3</sup>

INSTALL STEEL IRONS IN  
ACCORDANCE WITH  
AUSTRALIAN STANDARDS.

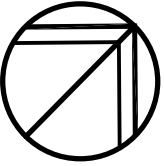
# OSD TANK - PLAN

NOI 10 SCALE

JIM SELIM &amp; DIA GABRA

ARCHITECT

# ARCHITECTS



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1179-1181 PACIFIC HWY  
& 2-6 WARRANGI ST

## DETAIL SHEET

→

DRAWING NUMBER	REVISION

DA083