

ALTERATIONS AND ADDITIONS

at: 1 NARRABEEN PARK PARADE, NORTH NARRABEEN

for: OLGA ARSLAN

Architect: BENNETT ARCHITECTS AND ASSOCIATES

Prepared By:



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DRAWING SCHEDULE:

- D01 A STORMWATER DRAINAGE GENERAL NOTES
- D03 A GROUND FLOOR STORMWATER DRAINAGE PLAN
- D04 A LEVEL 1 STORMWATER DRAINAGE PLAN
- D05 A UPPER FLOOR STORMWATER DRAINAGE PLAN
- D06 A ROOF STORMWATER DRAINAGE PLAN
- D10 A STORMWATER DRAINAGE DETAILS SHEET 1

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NORTHERN BEACHES COUNCIL - REGION 1
ON-SITE DETENTION SYSTEM CALCULATION SHEET

ADDRESS: 1 NARRABEEN PARK PARADE, WARRIEWOOD

ALL WORKS IN ACCORDANCE WITH COUNCIL'S WATER MANAGEMENT FOR DEVELOPMENT POLICY.

DEVELOPMENT TYPE	ALTERATIONS AND ADDITIONS
------------------	---------------------------

REGION

SITE DETAILS

TOTAL SITE AREA	345	m ²	
PRE DEVELOPMENT IMPERVIOUS AREA	345	m ²	(100% OF SITE)
POST DEVELOPMENT IMPERVIOUS AREA	345	m ²	(100% OF SITE)
INCREASE	NIL	m ²	

OSD REQUIREMENTS

INCREASE IN IMPERVIOUS AREA IS LESS THAN 50 m², THEREFORE OSD IS NOT REQUIRED AS PER SECTION 9.3.1 OF THE WATER MANAGEMENT FOR DEVELOPMENT POLICY. ADDITIONALLY, SINCE THE IMPERVIOUS AREA IS NOT BEING INCREASED AS A RESULT OF THIS DEVELOPMENT, STORMWATER DISCHARGE DOWNSTREAM OF THE LAND OVER AND ABOVE THAT OF THE EXISTING STORMWATER DISCHARGE CONDITIONS UP TO THE 1% AEP STORM EVENT, OSD IS NOT RECOMMENDED.

OSD STORAGE REQUIREMENT

OSD VOLUME REQUIRED NIL m³ (NIL m³ PROVIDED)

RAINWATER REUSE STORAGE REQUIREMENT

RAINWATER 'BASIX' REQUIRED	2 m ³ (2 m ³ PROVIDED)
'BASIX' REQUIRED ROOF AREA TO RAINWATER TANKS	50 m ²

OUTLET CONTROL

METHOD OF DISCHARGE	KERB AND GUTTER
MAX. ALLOWABLE DISCHARGE TO KERB AND GUTTER	25 L/s

STORMWATER INSPECTION SCHEDULE

INSPECTION ITEMS	STAGE OF CONSTRUCTION
IN-GROUND PIPEWORK	PRIOR TO BACKFILL
IN-GROUND INFILTRATION/DISPERSION TRENCHES	PRIOR TO BACKFILL
IN-GROUND PREFABRICATED TANKS	PRIOR TO CONCRETE POUR/BACKFILL
PIPEWORK CAST-IN SLABS	PRIOR TO CONCRETE POUR
BOX GUTTERS	POST INSTALLATION WITH SAFE ROOF ACCESS MADE AVAILABLE
ABOVE GROUND PIPEWORK + FINISHED SURFACE LEVELS	FINAL CERTIFICATION

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[illegible]

Scale check - 100mm when printed to scale

A1

BEFORE YOU DIG NOTE:

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

CARELESS DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC
- INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS
- LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS
- CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS
- CUT OFF EMERGENCY SERVICES
- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED



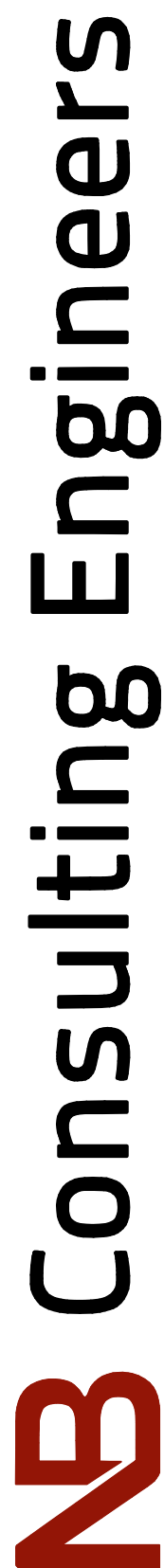
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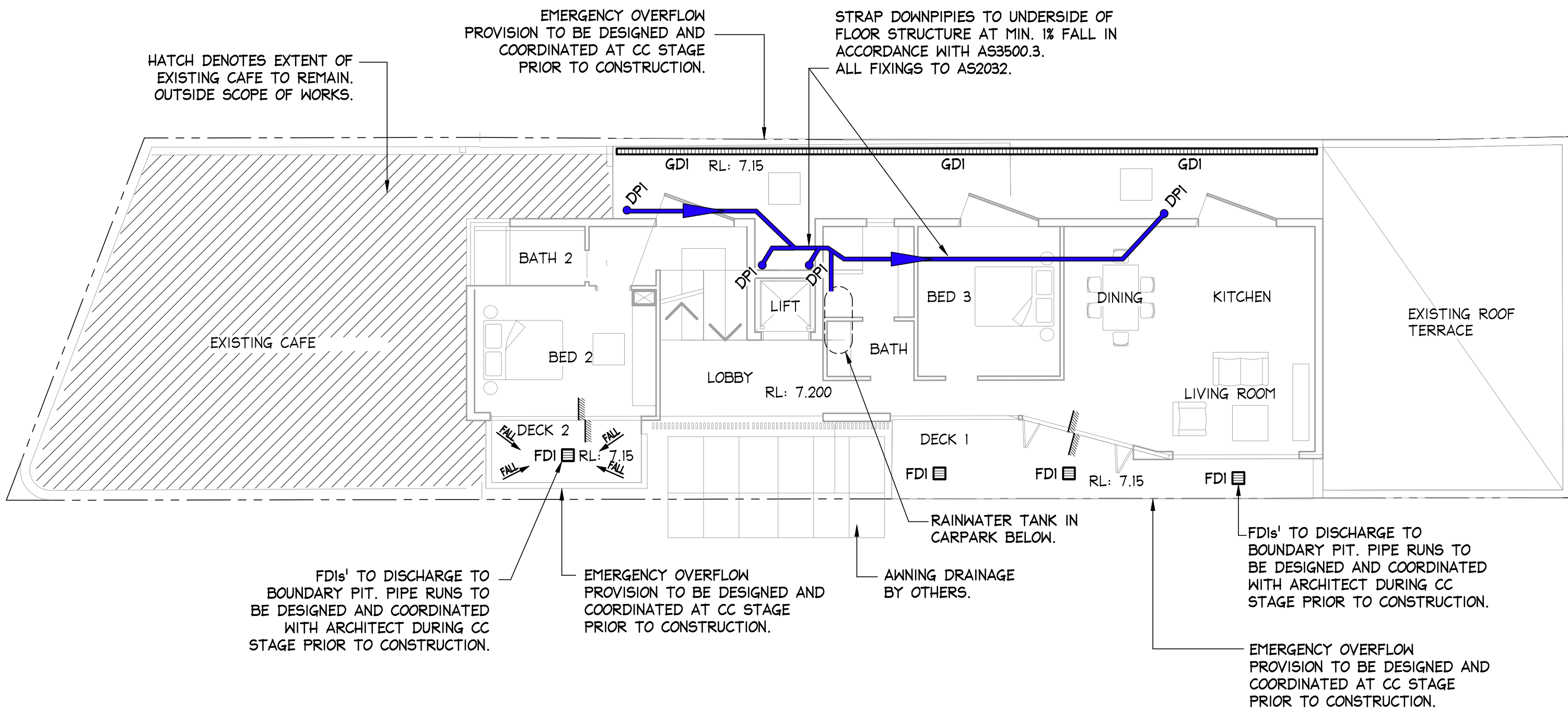


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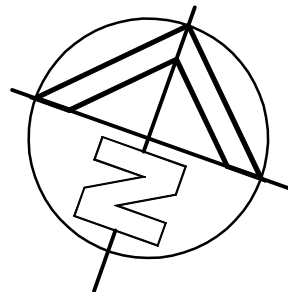


LEVEL 1 STORMWATER DRAINAGE PLAN
SCALE = 1 : 100

LEGEND

- DPI • 100mm Ø DOWNPIPE TO DISCHARGE TO BOUNDARY PIT.
- NEW ROOF DRAINAGE STORMWATER PIPE
- STORMWATER PIPE FLOW DIRECTION
- FDI ■ FLOOR DRAIN, REFER TO DETAILS
- RECOMMENDED TO PROVIDE MINIMUM 50mm SET DOWN TO EXTERNAL AREAS, ALTERNATIVELY THRESHOLD DRAINAGE TO BE INCORPORATED INTO SUBSILL
- GDI - 150 MIN DEPTH x 150 WIDE GRATED DRAIN
- HATCH DENOTES ATLANTIS DRAINAGE CELL TO BE PROVIDED TO GRAVEL BALLAST ROOFS.

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.



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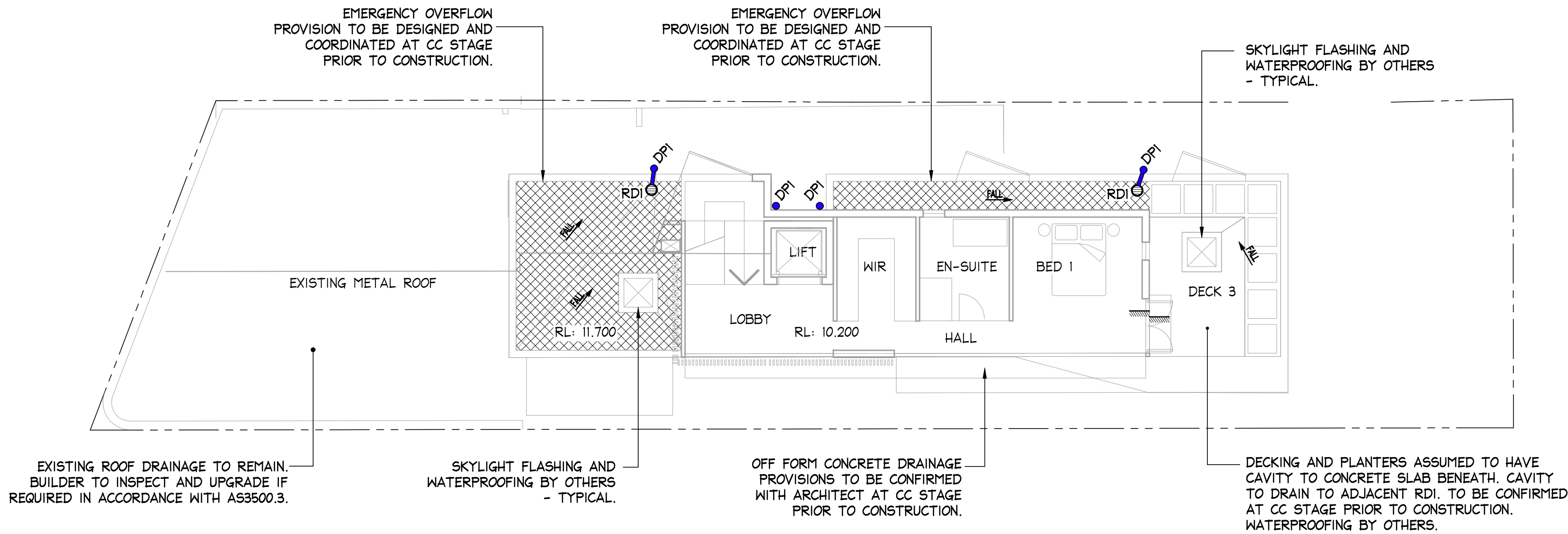
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2025-02-05 A ISSUED FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION			ZC LB		Date : 6 Feb. '25 Michael Wachjo B.E.(Civil), MIEAust.,PRE,DEP. (Director NB Consulting Engineers) The copyright of this drawing remains with NB Consulting Engineers									
Date:	Issue:	Description:	By:	Review:			Drawing Title: LEVEL 1 STORMWATER DRAINAGE PLAN		Job No: 2412039		Drawing No: D04		Issue: A	

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UPPER LEVEL STORMWATER DRAINAGE PLAN
SCALE = 1 : 100

LEGEND

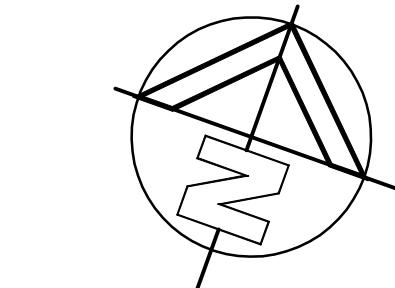
- DPI • 100mm ϕ DOWNPIPE TO DISCHARGE TO BOUNDARY PIT.
- RDIO • ROOF DRAIN, REFER TO DETAILS
- RECOMMENDED TO PROVIDE MINIMUM 50mm SET DOWN TO EXTERNAL AREAS, ALTERNATIVELY THRESHOLD DRAINAGE TO BE INCORPORATED INTO SUBSILL
- HATCH DENOTES ATLANTIS DRAINAGE CELL TO BE PROVIDED TO GRAVEL BALLAST ROOFS.

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.

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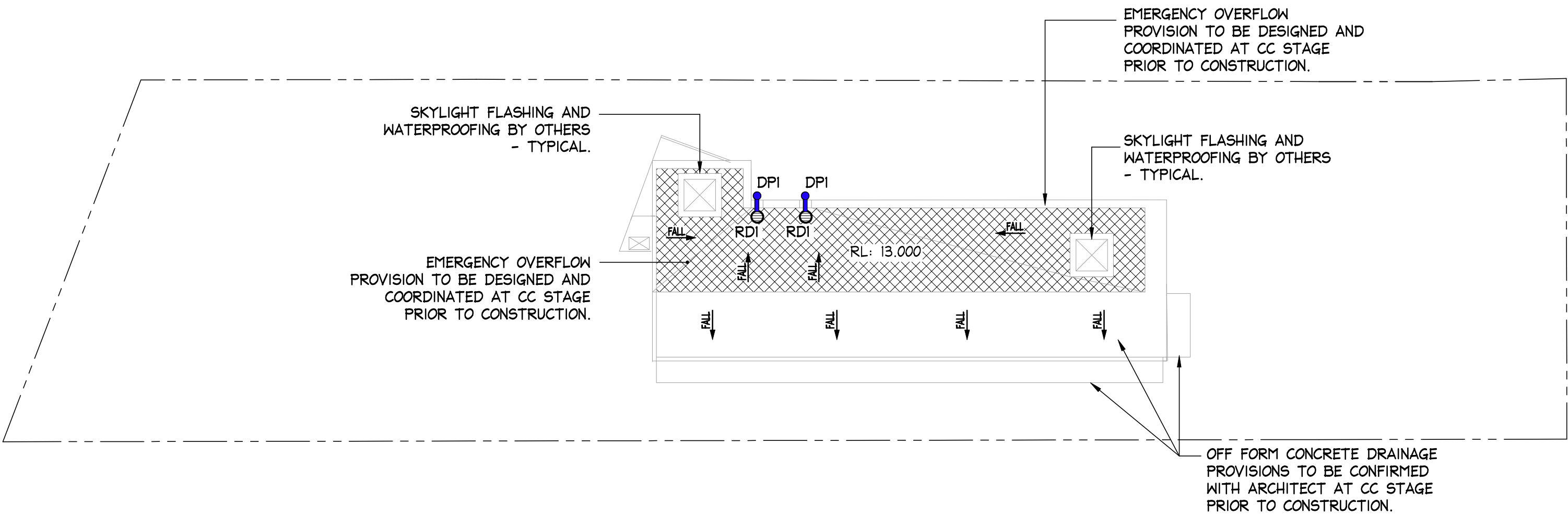


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ROOF STORMWATER DRAINAGE PLAN
SCALE = 1 : 100

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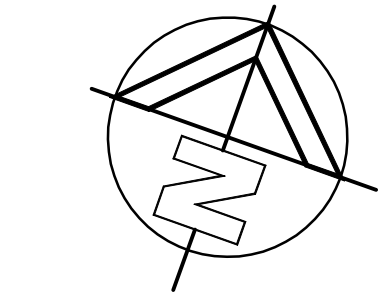
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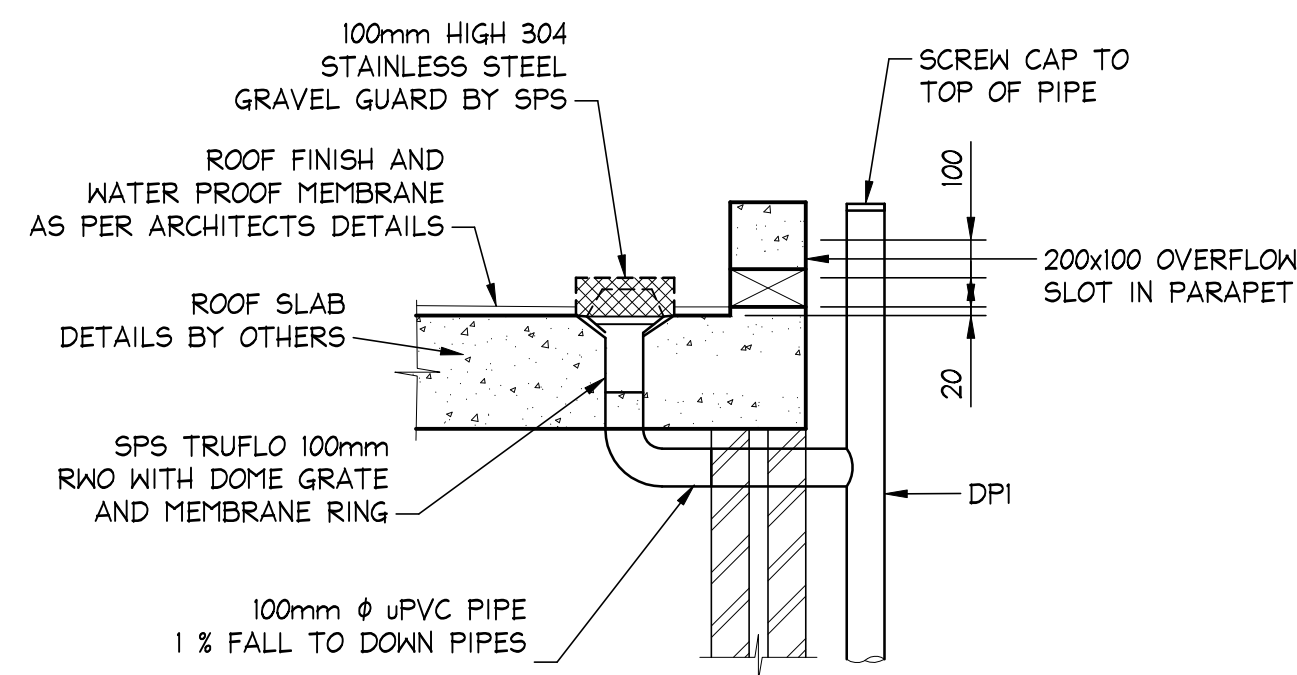
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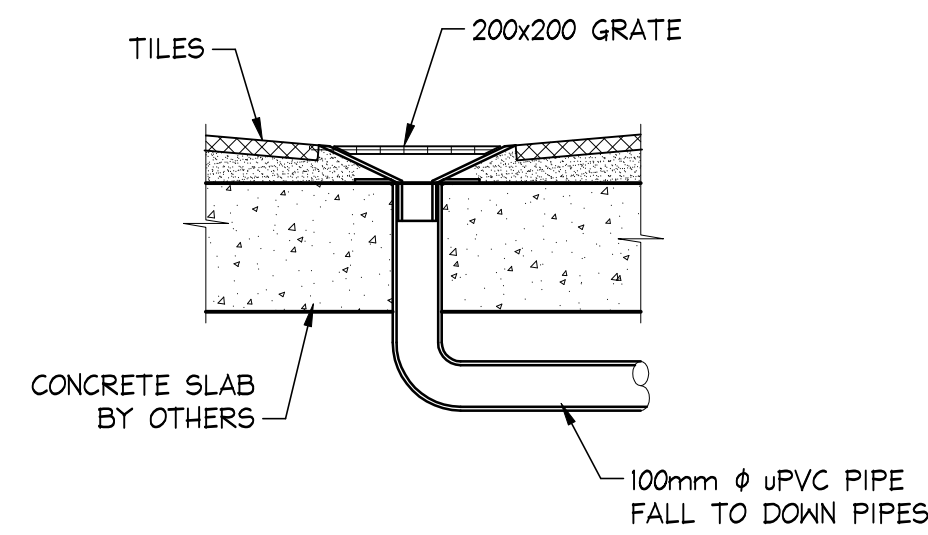
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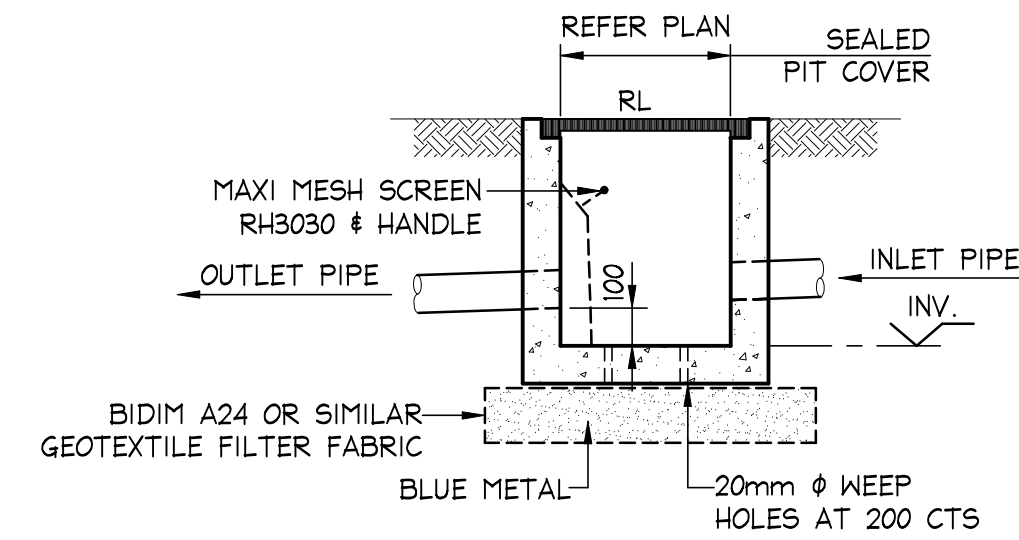
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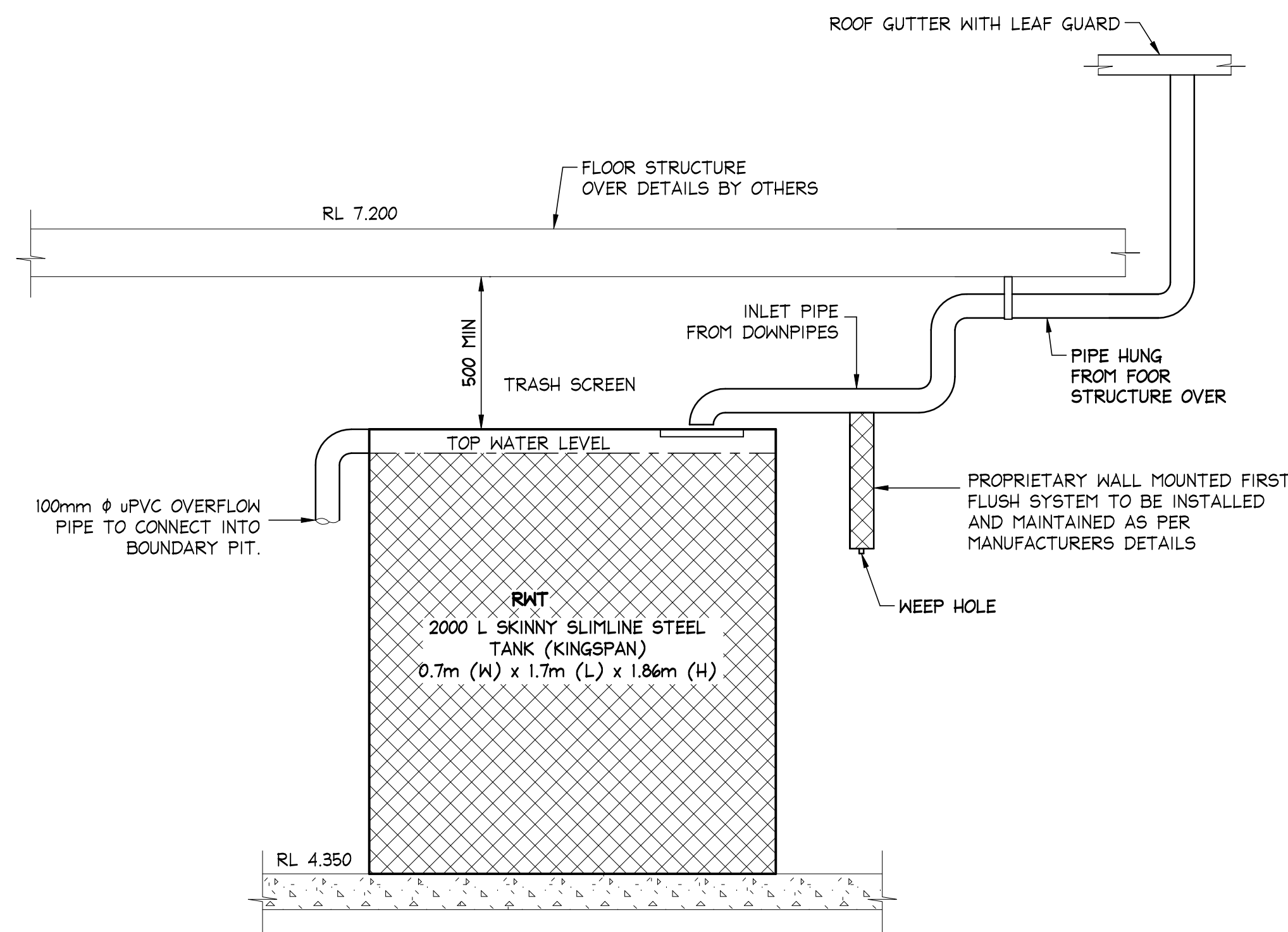


STANDARD FLOOR DRAIN - 'FDI'
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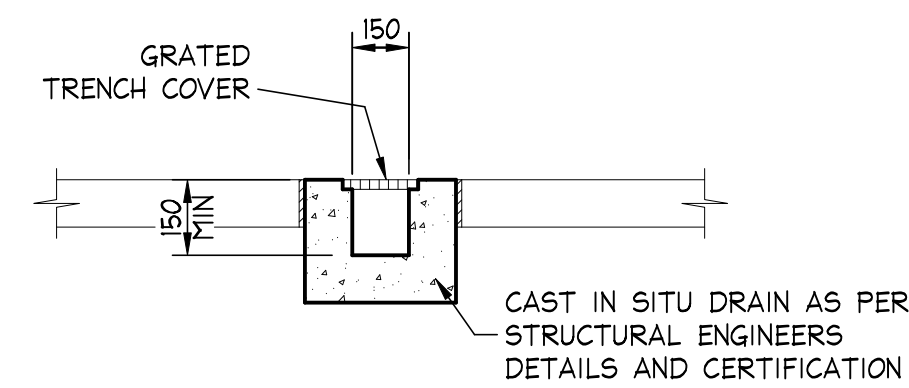


PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

TYPICAL PIT DETAIL
SCALE = 1 : 20



TYPICAL SECTION RAINWATER RE-USE TANK
NOT TO SCALE



OR PRECAST GRATED DRAIN BY MANUFACTURER
ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER

TYPE 'GDI' GRATED DRAIN
SCALE = 1 : 20

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									Date: 6 Feb. '25 Michael Wachji  B.E.(Civil), MIEAust., PRE, DEP. (Director NB Consulting Engineers)			Sydney: Ph: (02) 9984 7000 Unit 11, 1 Vuko Place, Warriewood NSW 2102 Gold Coast: Ph: (07) 5631 4744 Suite 1, 30B Griffith Street, Coolangatta QLD 4225 E : nb@nbconsulting.com.au W : www.nbconsulting.com.au			Client: OLGA ARSLAN			Drawing Title: STORMWATER DRAINAGE DETAILS AND SECTIONS SHEET 1			Job No: 2412039		Drawing No: D10		Issue: A				
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