

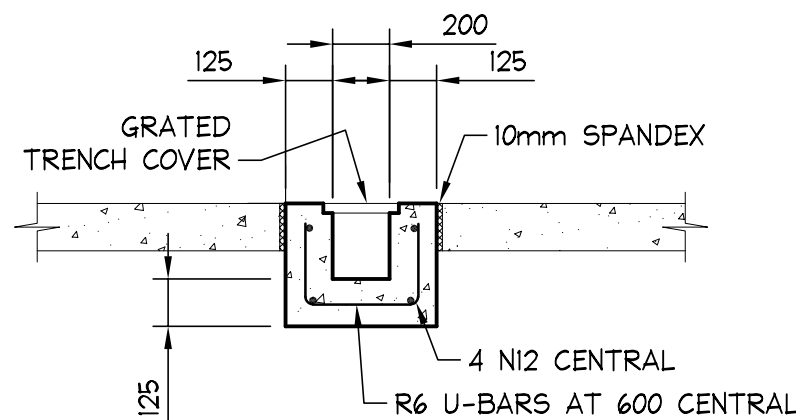
CONCEPT STORMWATER MANAGEMENT PLAN

LEVELS TAKEN FROM SURVEY BY DP SURVEYING P/L, REF:1886, DATED 19-01-2022.
ALL DRAINAGE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY TO SUIT SITE CONSTRAINTS.

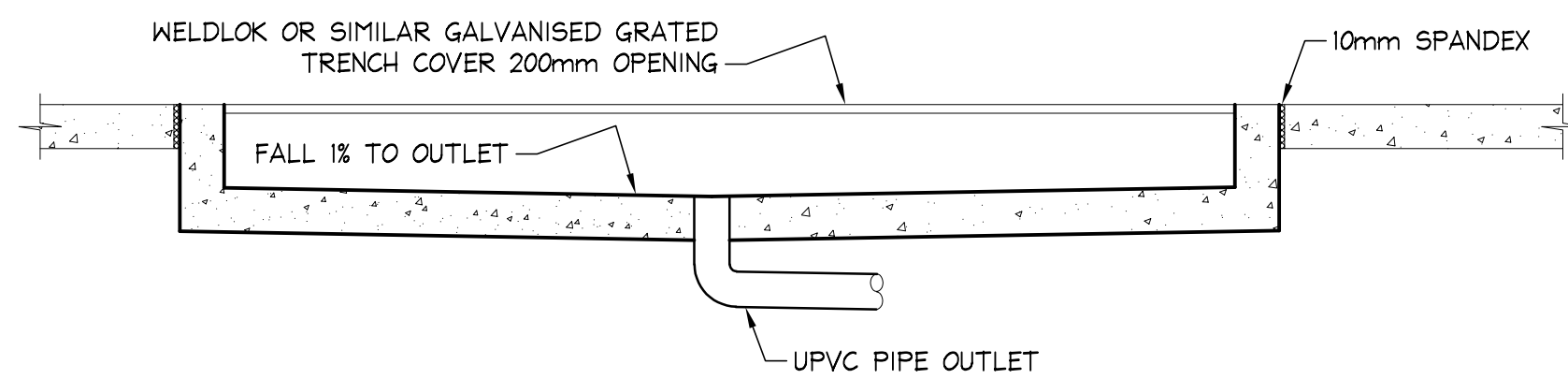
KEY:
DP - DOWNPIPE
SP - SPREADER DOWNPIPE
DP/RWH - DOWNPIPE RAINWATER HEAD
SPT - SPITTER OVERFLOW

STORMWATER NOTES:

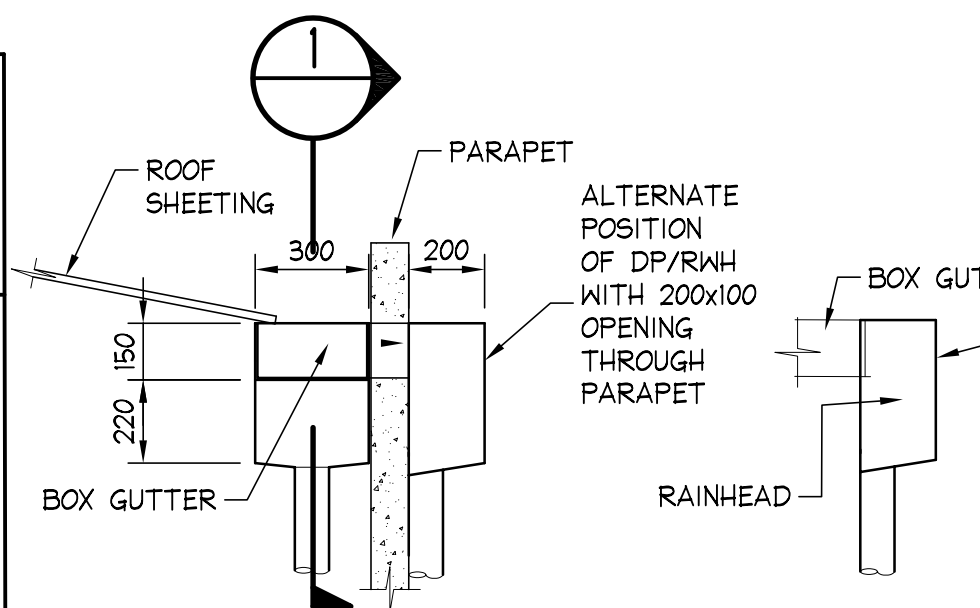
- 1 - ALL PIPES TO BE 100mm Ø SEWER GRADE uPVC UNLESS NOTED OTHERWISE.
- 2 - ALL PIPES TO BE uPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE.
- 3 - ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 - ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS.
(NO COMPACTION REQUIRED BELOW LANDSCAPING)
COVER TO SURFACE FROM TOP OF PIPE TO BE AS PER AS3500.
BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- 5 - DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 6 - PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 7 - ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS.
- 8 - ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 9 - ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 10 - PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 11 - ALL LEVELS SHOWN ARE TO AHD
- 12 - ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 13 - ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
- 14 - ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2015 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE. AND ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2012 NATIONAL PLUMBING DRAINAGE CODE PART 5 - HOUSING INSTALLATIONS.



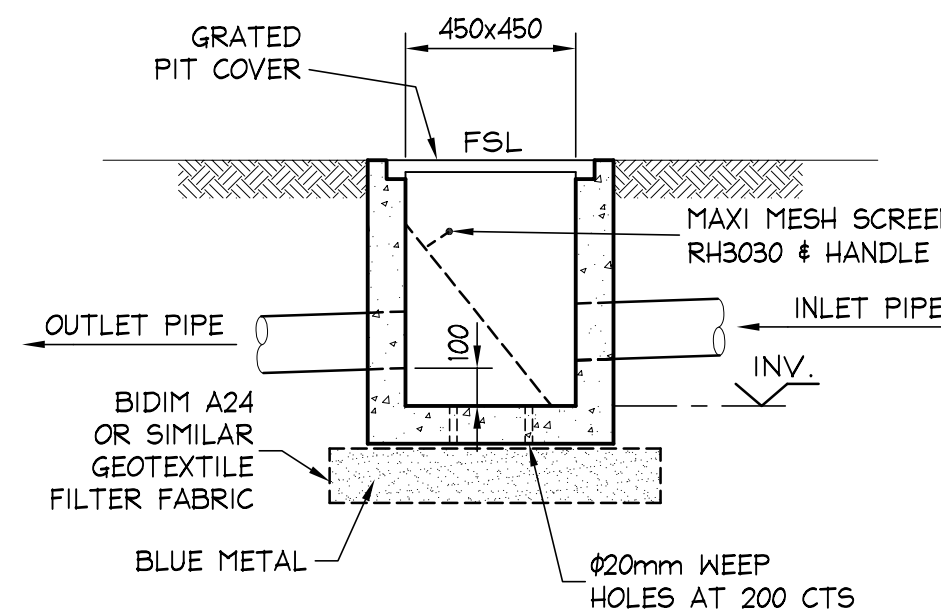
TYPICAL GRATED DRAIN
SCALE = 1 : 20
PRECAST OR HDPE GRATED DRAIN
ALTERNATIVE



LONGITUDINAL SECTION TYPICAL GRATED DRAIN
SCALE = 1 : 20



TYPICAL RAIN HEAD DETAIL
SCALE = 1 : 20



PRECAST OR HDPE PIT
REFER STORMWATER NOTES
450x450 PIT DETAIL
SCALE = 1 : 20

Northern Beaches Council - Region 1

Gutter Calculations -20 & 100 yr ARI Storm

Alterations & Additions

28 Delecta Avenue Clareville

to AS 3500 - 2015 & AS 3500.5 2012 & BCA2016

Eaves & Gutters	Horizontal Area A _h	Slope Factor	Area A _c	From Figure	Downpipe From Table	Flow in Box Gutters in ¹⁰⁰ / ₅
		from		²⁰ / ₅	5.6.4.1.b	
		Table	Appendix		5.6.4.7.1	
		5.6.3.2	12	gutter size reqd	size reqd	L/sec
	m ²		m ²	mm/hr	mm ²	mm
DP1	27	1.2	32.4	201	6600	100 dia or 100x75
DP2	27	1.2	32.4	201	6600	100 dia or 100x75
DP3	11.4	1.2	13.7	201	3000	90 dia or 100x50
RWH/DP4	60.8	NA	NA	271	NA	90 dia or 100x50
DP5	3	1.2	3.6	201	3000	90 dia or 100x50
DP6	16.6	1.2	19.9	201	4400	90 dia or 100x50
DP7	16.6	1.2	19.9	201	4400	90 dia or 100x50
DP8	21.9	1.1	24.1	201	5300	90 dia or 100x50
DP9	21.9	1.1	24.1	201	5300	90 dia or 100x50
DP10	27	1.2	32.4	201	6600	100 dia or 100x75
DP11	29.1	1.2	34.9	201	7000	100 dia or 100x75
DP12	29.1	1.2	34.9	201	7000	100 dia or 100x75
	291.4					

new Eaves Gutters Lysaght Half Round on Lower Floor & Garage

Area - 9400 mm²

Existing Custom Gutter to be continued on Upper Floor

All underground Pipes to be 100 Dia Sewer Grade PVC UNO

SP1 to SP2 to be 90 dia or 100x50

GUTTER CALCULATIONS

NOTES:

1. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK.
2. FOR GENERAL NOTES AND DRAWING SCHEDULE REFER TO DRAWING NUMBER: S01.



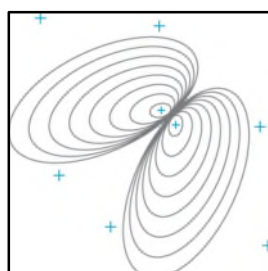
DOCUMENT CERTIFICATION

Date : APRIL 2022
Bruce Lewis
(Principal : Peninsula Consulting Engineers)
BE(Civil), CPEng, MIEAust., NPER
Institute of Engineers Membership No. 879131

28-04-2022	A	FOR COUNCIL SUBMISSION
20-04-2022	PI	DRAFT
Date:	Rev:	Amendment:

Peninsula Consulting Engineers

PO Box 6491,
Frenchs Forest, NSW, 2086
Ph: 0424 253 818 Fax: (02) 9982 4722
E: bruce@peninsulaconsulting.com.au
A.B.N. 60 493 390 399



The copyright of this drawing remains with Peninsula Consulting Engineers.

Project:

PROPOSED WORKS
at: 28 DELECTA AVENUE,
CLAREVILLE
for: MR & MRS BELGIOVANE

Drawing Title:

CONCEPT STORMWATER
MANAGEMENT PLAN & DETAILS

Job No:

22-0403

Drawing No:

H01

Rev:

A