

PROPOSED RESIDENTIAL DWELLING AT  
7 BORONIA ROAD, INGLESIDE NSW 2101












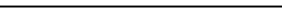


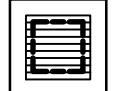












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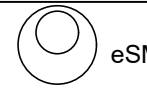

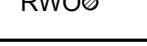
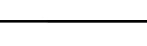

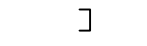
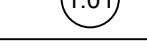
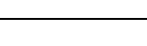

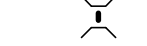

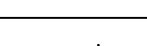

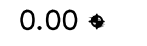



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BEFORE YOU DIG

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CONCEPT STORMWATER DESIGN PLANS

LEGEND	
	STORMWATER LINE
	SSD SUBSOIL LINE
	STORMWATER RISING MAIN
	EXISTING STORMWATER LINE
	AUTHORITY STORMWATER LINE
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY FIBRE OPTIC LINE
	AUTHORITY COMMS LINE
	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRATED SURFACE INLET PIT
	GRATED TRENCH DRAIN
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
	EXISTING TELSTRA PIT
	EXISTING HYDRANT
	EXISTING STOP VALVE
	EXISTING GAS VALVE
	EXISTING POWER POLE
	EXISTING BOUNDARY TRAP

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

LEGEND	
	eSMH EXISTING SEWER MANHOLE
	OFPP OVERLAND FLOW PATH
	RWO RAINWATER OUTLET
	CO CLEAR OUT POINT
	DDO DISH DRAIN OUTLET
	PD PLANTER DRAIN
	C CAPPING
	(1.01) PIT TAG/NUMBER
	RH RAINHEAD
	DP DOWNPIPE DROP
	NRV NON RETURN VALVE
	WP WALL PENETRATION
	DP DOWNPIPE
	DP DOWNPIPE + SPREADER
	WL WARNING LIGHT
	0.00 SPOT LEVELS
	B BENCHMARK

ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFPP	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TP	TYPICAL

DRAINAGE NOTES:

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

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 DIAMETER

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<sub>c</sub> FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

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 NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:  
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) 95% MODIFIED  
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) 98% MODIFIED  
BASE COURSE 100% MODIFIED

EROSION & SEDIMENT CONTROL NOTES:

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

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 OTHERS.

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

GEBA CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT GEBA CONSULTING.

ADOPT LEVELS AS PER ORIGINAL SURVEY PLAN.

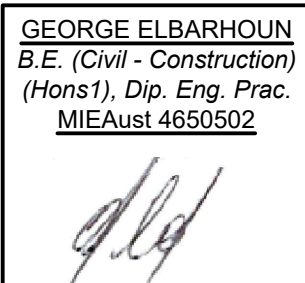
DRAWING REGISTER

NUMBER	NAME	REVISION
SW01	COVER SHEET & SPECIFICATIONS	A
SW02	EROSION & SEDIMENT CONTROL PLAN	A
SW03	SITE STORMWATER PLAN	A
SW04	DETAILS SHEET 1	A
SW05	DETAILS SHEET 2	A



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P : 02 9062 8400



Client  
MATTHEW & MICHAEL GREEN

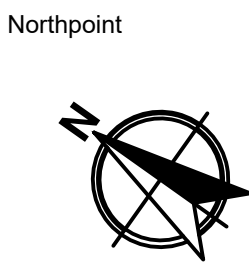
Architect  
INHAUS DESIGNS

Project  
PROPOSED RESIDENTIAL DWELLING

Address  
7 BORONIA ROAD, INGLESIDE NSW 2101

Scale

0m 1 2 3 4 5  
SCALE 1:100 ON ORIGINAL SIZE



Description  
FOR APPROVAL

Des.	Chk.	App.	Rev.	Date
A.M.	E.Z.	E.Z.	A	15.05.25

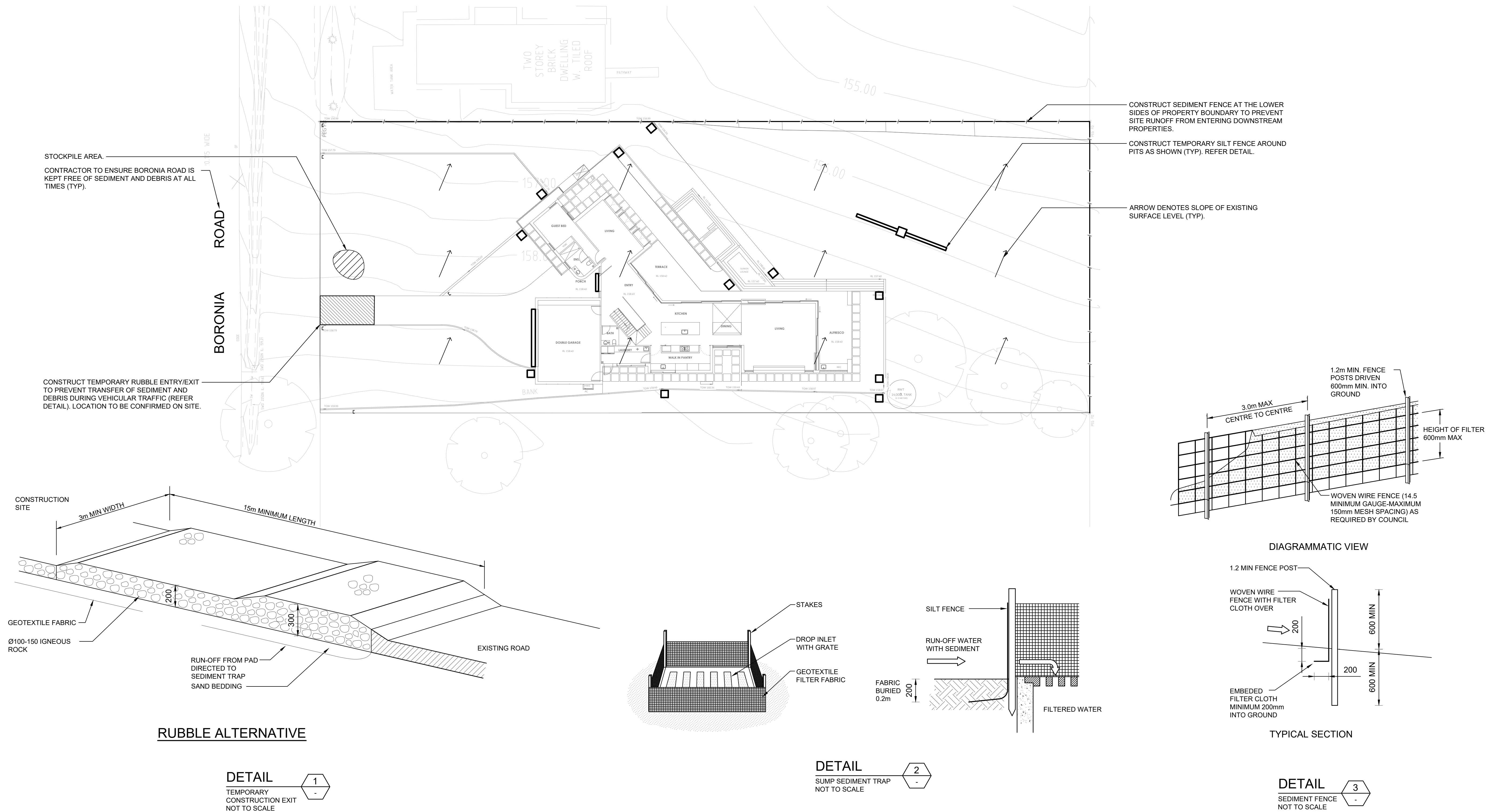
DEVELOPMENT APPLICATION (DA)

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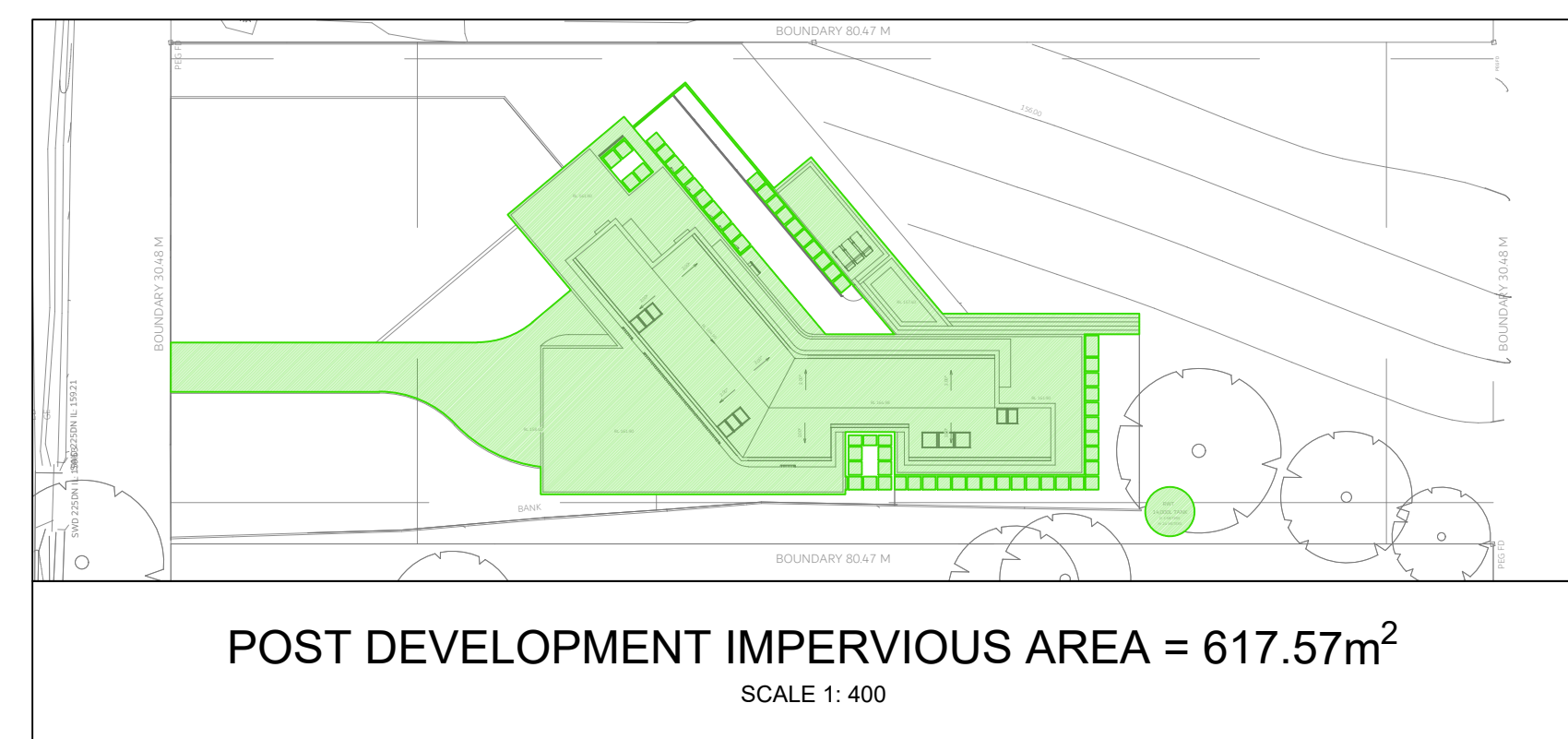
COVER SHEET & SPECIFICATIONS

Project number	Drawing number	Original Size	Scale
GC25130	SW01	A1	1:200









THE SITE IS LOCATED IN NORTHERN BEACHES COUNCIL.

THE DEVELOPMENT PROPOSAL IS FOR A RESIDENTIAL DWELLING.

SITE AREA = 2453m<sup>2</sup>.

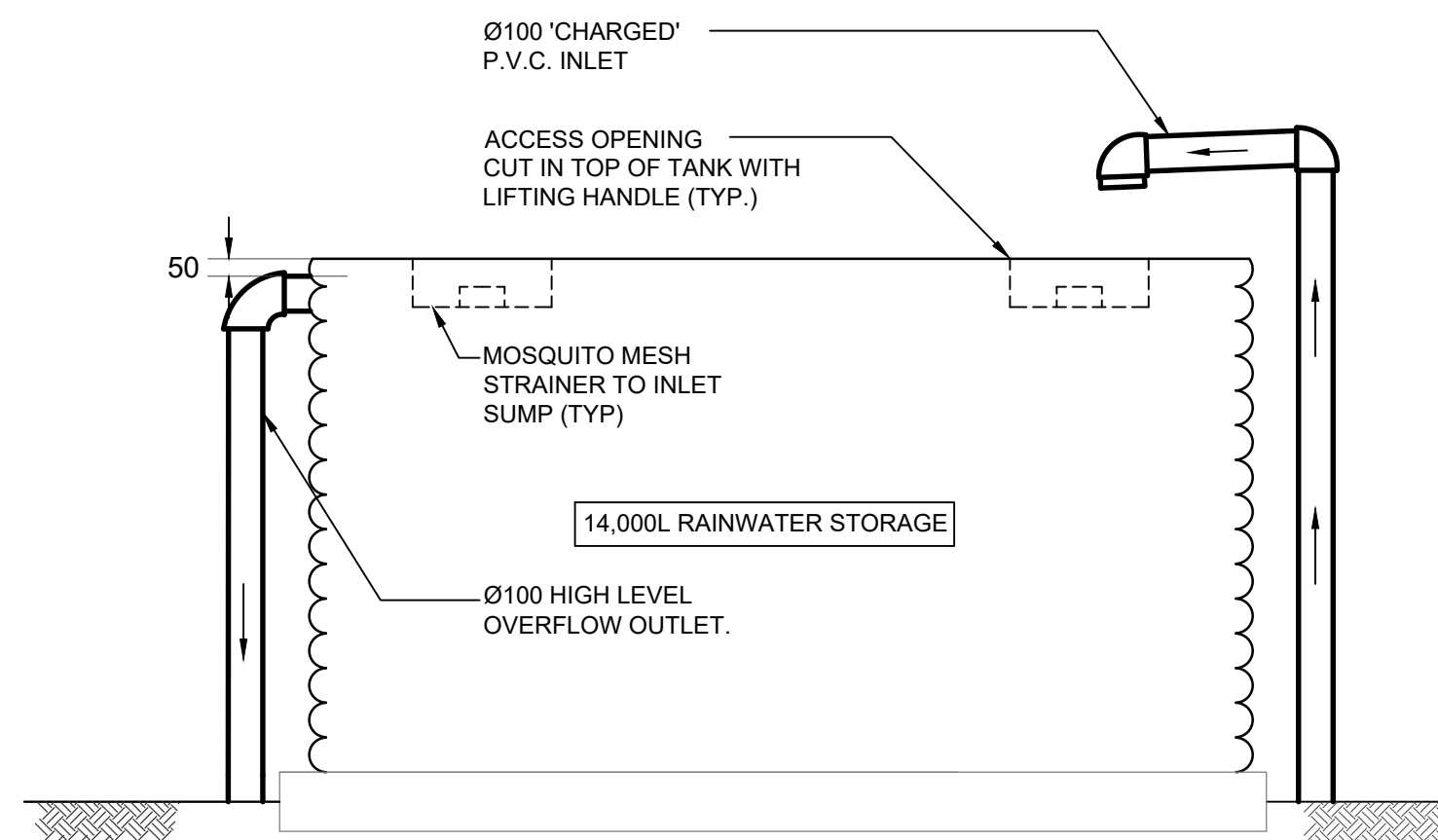
POST-DEVELOPMENT IMPERVIOUS AREA	= 617.57m <sup>2</sup> .
POST-DEVELOPMENT IMPERVIOUS AREA%	= 25.18%.

ALL NEW STORMWATER PIPES TO DRAIN BY LEVEL SPREADER. TO BE CONFIRMED DURING CONSTRUCTION.

ALL STORMWATER PIPES SHOWN ON PLAN ARE Ø100mm uPVC AND SLOPING AT 1.0% U.N.O.

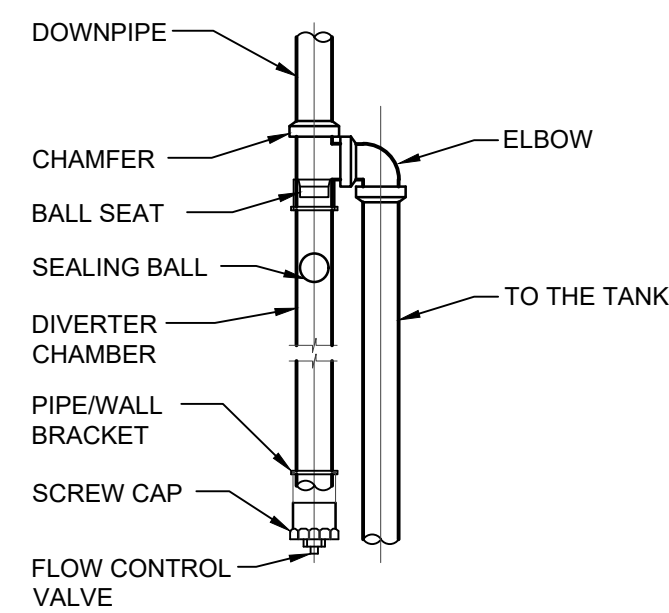
EXISTING SERVICES SHOWN ON PLAN ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND DEPTH PRIOR TO COMMENCING ANY WORKS.

CONTACT STORMWATER ENGINEER IF ANY CLASHES WITH EXISTING SERVICES ARE FOUND DURING CONSTRUCTION.



**DETAIL**  
TYPICAL ABOVE GROUND  
RAINWATER TANK  
NOT TO SCALE

4  
-



**DETAIL**  
FIRST FLUSH DIVERTER  
SCALE 1:20

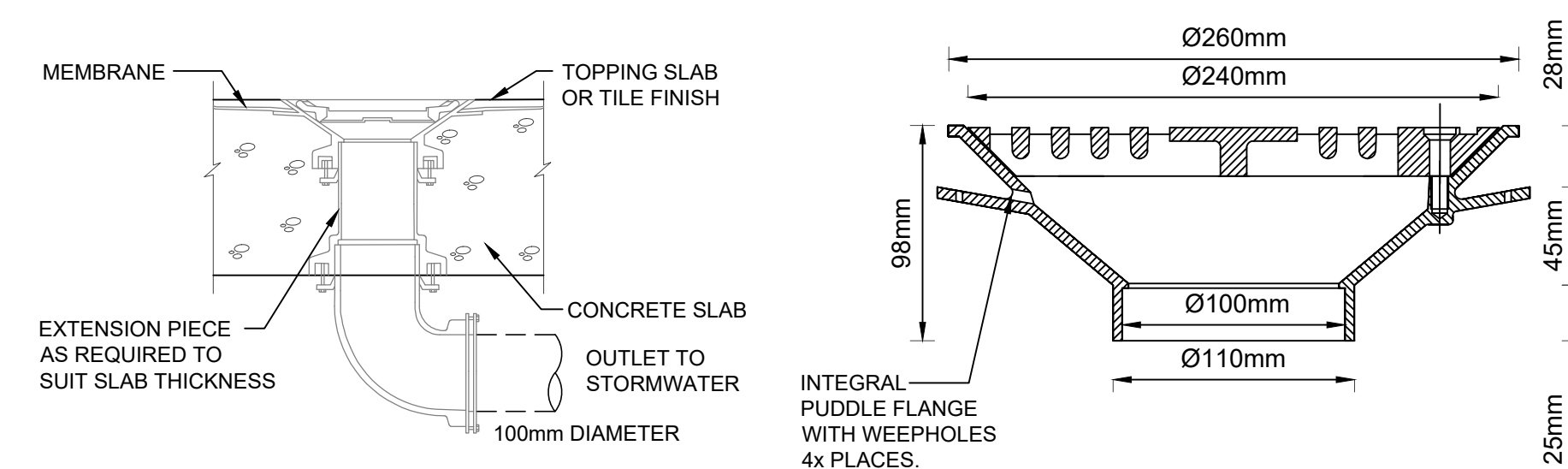
5  
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**DETAIL**  
RAINWATER SIGN  
SCALE 1:10

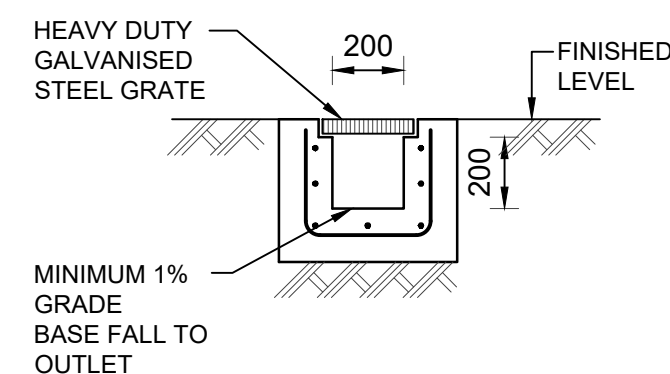
6  
-

LEGEND:  
BACKGROUND IS YELLOW  
TEXT IS WHITE ON BLACK  
BACKGROUND



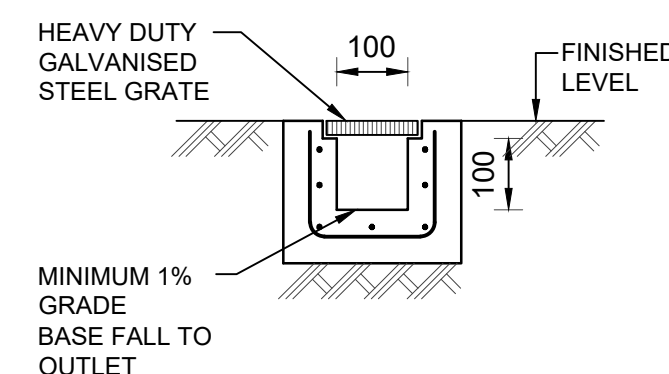
**DETAIL**  
TYPE SPS  
RAINWATER OUTLET  
NOT TO SCALE

7  
-



**DETAIL**  
GRATED TRENCH DRAIN  
NOT TO SCALE

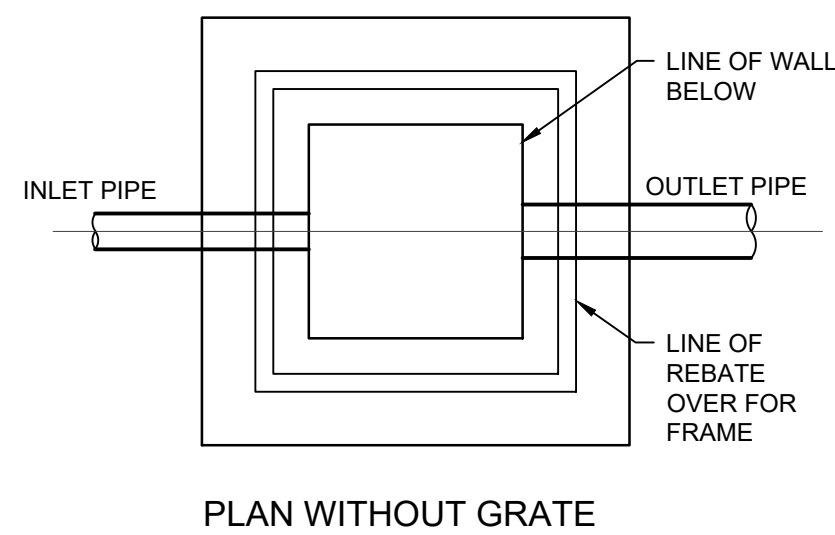
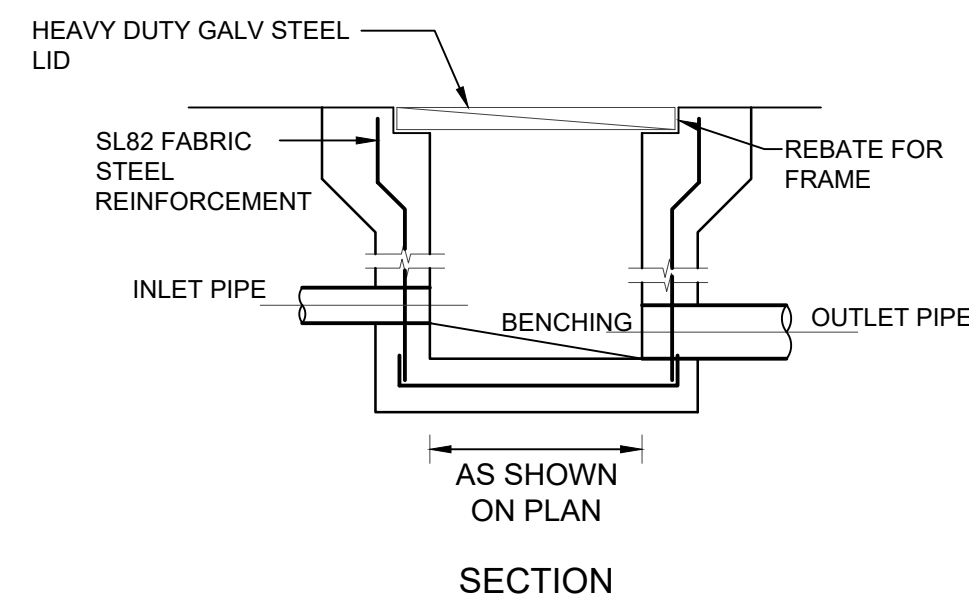
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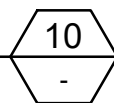
**DETAIL**  
GRATED TRENCH DRAIN  
NOT TO SCALE

9  
-





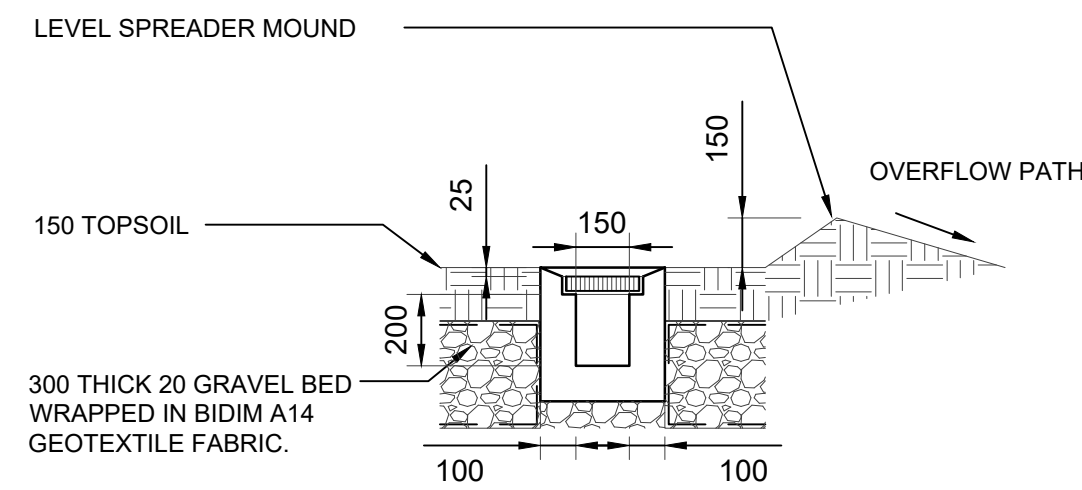
DETAIL  
STORMWATER PIT  
SCALE 1:20



**NOTES:**

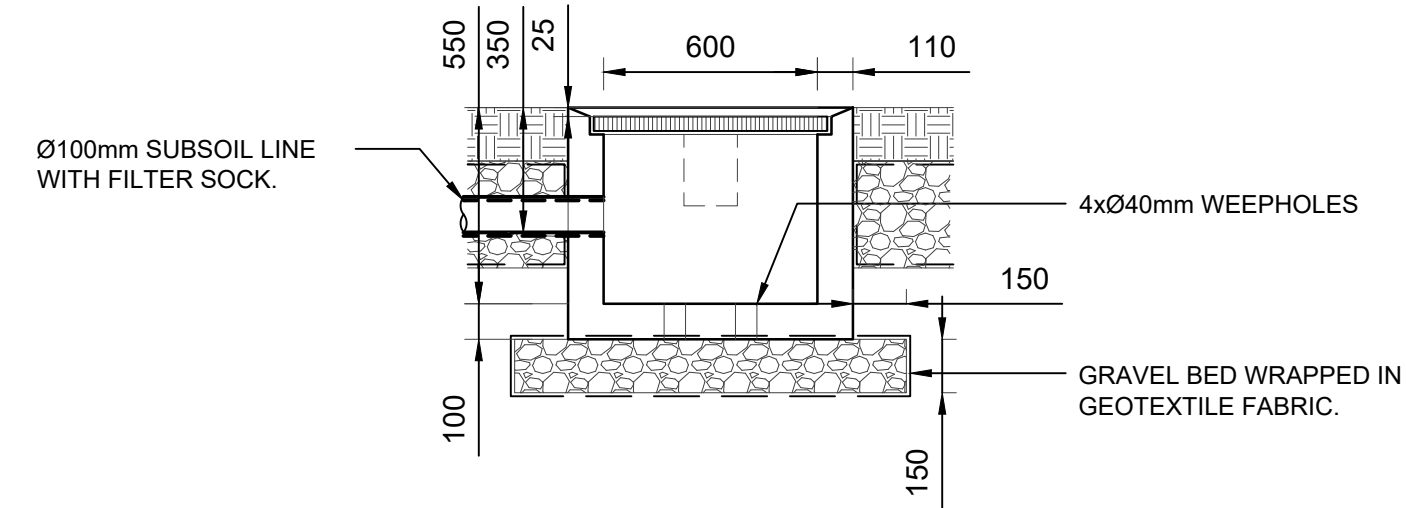
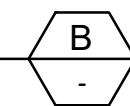
GEOTEXTILE IS TO BE BIDIM A14, PROPEX 4550 OR SIMILAR WITH COEFFICIENT OF PERMEABILITY GREATER THAN 50E-4m/s. FOR PIPES > Ø225 USE PROPRIETARY UNIT.

ALL DIMENSIONS ARE IN MILLIMETERS U.N.O.



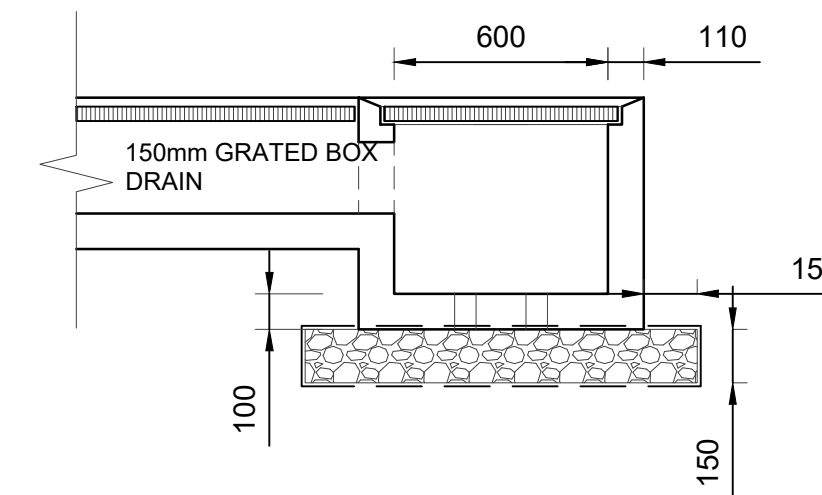
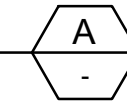
**SECTION**

LEVEL SPREADER BOX DRAIN  
WITH LEVEL SPREADER MOUND  
NOT TO SCALE



**SECTION**

LEVEL SPREADER  
GRADED PIT  
SCALE 1:20



**SECTION**

LEVEL SPREADER  
GRADED PIT & BOX DRAIN  
SCALE 1:20

