

# NEW RESIDENCE AT 44 BOWER STREET MANLY FOR MR CHRIS ACRET

## LEGEND

PIPEWORK	
	RAINWATER DRAINAGE
	RAINWATER CHARGED
	STORMWATER DRAINAGE
	STORMWATER RISING MAIN
	SUBSOIL DRAINAGE
	BARRIER FENCE
	EXISTING PIPE
	EXISTING PIPE MADE REDUNDANT
	SEDIMENT FENCE LINE
	PROPERTY BOUNDARY
	SWALE
	DROPPER
	RISER
	TURBIDITY BARRIER
	DIRECTION OF FALL OR FLOW
	DOWN PIPE
	PLANTER BOX OUTLET
	RAIN WATER OUTLET / BALCONY OUTLET
	STORMWATER PIT (GRATE)
	STORMWATER PIT (RWO IN BASE)
	SEALED PIT COVER
	GULLY PIT
	REFLUX VALVE
	PIPE CONNECTION POINT
	PIPE PENETRATING
	PIPE NOT PENETRATING
	PUMP
	OVERLAND FLOW PATH
	CLEAR OUT
	TUNDISH
	TRENCH GRATE
	DOWNPIPE SPREADER

## MISCELLANEOUS

	SERVICE / SERVICE NUMBER
	PIPE SIZE
	FOR CONTINUATION REFER DRG No
	FOR SECTION VIEW REFER TO DRAWING
AHD	AUSTRALIAN HEIGHT DATUM
AP	ACCESS PANEL
BG	BOX GUTTER
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GIP	GRATED INLET PIT
HED	HIGH EARLY DISCHARGE
HFB	HIGH FLOW BYPASS
HL	HIGH LEVEL IN CEILING
HP	HIGH POINT
IL	INVERT LEVEL
INT	INTERNAL
KIP	KERB INLET PIT
O/F	OVERFLOW
OSD	ON SITE DETENTION
RHS	RECTANGULAR HOLLOW SECTION
RL	RELATIVE LEVEL
RWH	RAINWATER HEAD
RTW	RAINWATER TANK
SRL	SLAB RELATIVE LEVEL
SRZ	STRUCTURAL ROOT ZONE
TBA	TO BE ADVISED
TKL	TOP KERB LEVEL
TRZ	TREE ROOT ZONE
TWL	TOP WATER LEVEL
UNO	UNLESS NOTED OTHERWISE

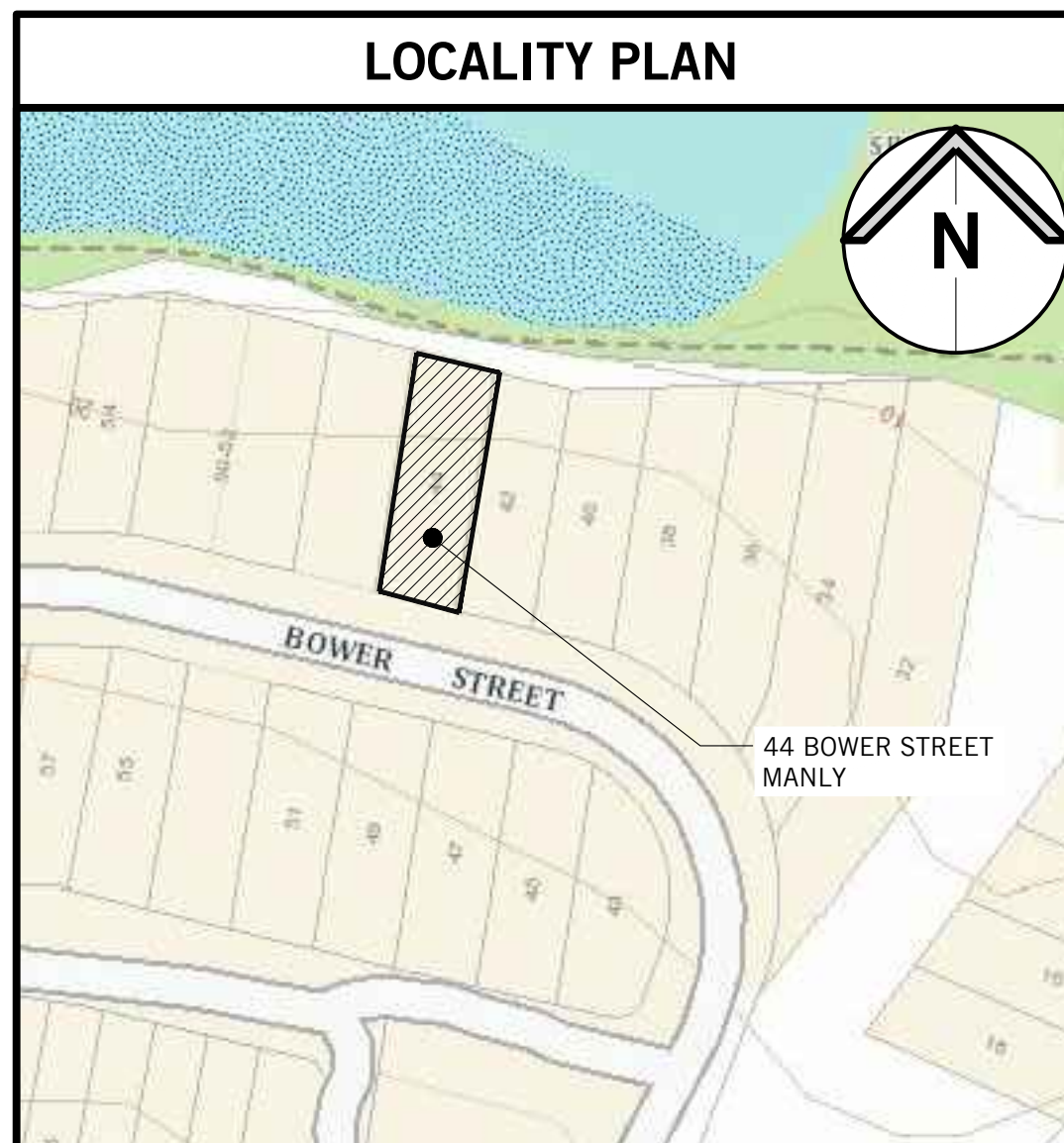
## DRAWING LIST

DRAWING No.	TITLE
SWDA 1.1	COVER SHEET AND DRAWING LEGEND
SWDA 1.2	BASEMENT LAYOUT AND DETAILS
SWDA 1.3	GROUND FLOOR PLAN
SWDA 1.4	EROSION & SEDIMENT CONTROL PLAN DETAILS

## NOTES

- 1) ALL DRAINAGE WORKS ARE TO BE IN ACCORDANCE WITH AS/NZS 3500 - STORMWATER DRAINAGE, NORTHERN BEACHES COUNCIL (FORMERLY KNOWN AS MANLY COUNCIL) SPECIFICATION FOR ON SITE STORMWATER MANAGEMENT 2003 AND THE LATEST BASIX CERTIFICATE.
- 2) SITE AREA = 696.8m<sup>2</sup>
- 3) REFERRING TO THE NORTHERN BEACHES COUNCIL STORMWATER CONTROL ZONES, THE SITE IS LOCATED WITHIN ZONE 3: SCOUR AND EROSION CONTROL
- 4) A SILT TRAP PIT IS TO BE INCORPORATED WITHIN THE DOWNSTREAM END OF THE EXISTING STORMWATER SYSTEM SERVING THE SITE IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL REQUIREMENTS. THIS IS TO BE REGULARLY MAINTAINED AND CLEARED OF ALL DEBRIS IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE.
- 5) IN ACCORDANCE WITH THE BASIX CERTIFICATE A RAINWATER TANK WITH A MIN CAPACITY OF 10,000L IS PROPOSED. THIS IS TO COLLECT A MINIMUM ROOF AREA OF 141 m<sup>2</sup> AND MUST BE CONNECTED TO HOSE TAPS FOR IRRIGATION & POOL TOP UP IN THE DEVELOPMENT.

## LOCALITY PLAN



P3	ISSUED FOR DA	DH	GB	28.02.20
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Project  
**NEW RESIDENCE  
44 BOWER STREET  
MANLY**

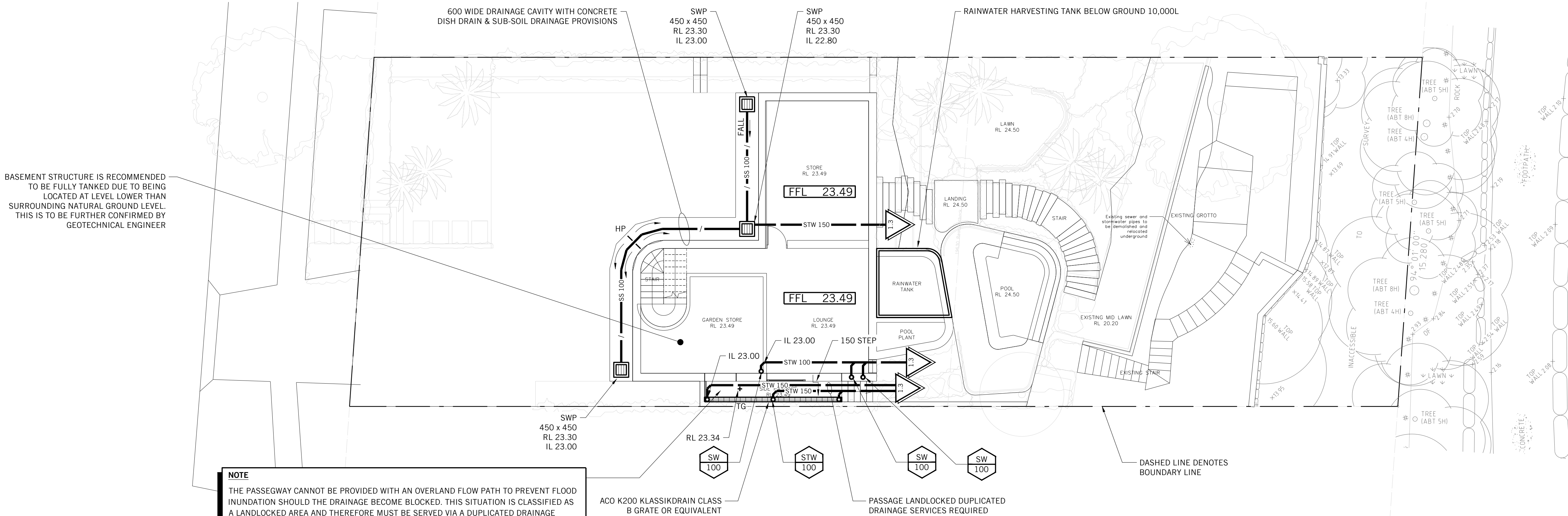
Title  
**STORMWATER DRAINAGE SERVICES  
COVER SHEET NOTES AND DRAWING  
LEGEND**

ELECTRONIC SIGNATURE: THIS DRAWING HAS BEEN ASSIGNED AN ELECTRONIC SIGNATURE CODE. THE PRESENCE OF THIS CODE CONFIRMS THAT THIS IS THE CERTIFIED DRAWING ISSUED FOR CONSTRUCTION. DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS

Electronic Code	Signature Date	Designed
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Job No.	Drawing No.	Revision
<b>2019H0273</b>	<b>SWDA 1.1</b>	<b>P3</b>

**PRELIMINARY - NOT FOR CONSTRUCTION**





600 WIDE DRAINAGE CAVITY WITH CONCRETE DISH DRAIN & SUB-SOIL DRAINAGE PROVISIONS

SWP 450 x 450 RL 23.30 IL 23.00

SWP 450 x 450 RL 23.30 IL 22.80

RAINWATER HARVESTING TANK BELOW GROUND 10,000L

BASEMENT STRUCTURE IS RECOMMENDED TO BE FULLY TANKED DUE TO BEING LOCATED AT LEVEL LOWER THAN SURROUNDING NATURAL GROUND LEVEL. THIS IS TO BE FURTHER CONFIRMED BY GEOTECHNICAL ENGINEER

NOTE

THE PASSEWAY CANNOT BE PROVIDED WITH AN OVERLAND FLOW PATH TO PREVENT FLOOD INUNDATION SHOULD THE DRAINAGE BECOME BLOCKED. THIS SITUATION IS CLASSIFIED AS A LANDLOCKED AREA AND THEREFORE MUST BE SERVED VIA A DUPLICATED DRAINAGE SYSTEM IN LIEU OF AN OVERLAND FLOW PATH. IT IS IMPERATIVE THAT THE STORMWATER PIT AND ASSOCIATED DRAINAGE SYSTEMS ARE REGULARLY MAINTAINED TO ENSURE THAT THE DRAINAGE PROVISIONS ARE NOT OBSTRUCTED OR BLOCKED BY FOREIGN DEBRIS.

ACO K200 KLASSIKDRAIN CLASS B GRATE OR EQUIVALENT

PASSAGE LANDLOCKED DUPLICATED DRAINAGE SERVICES REQUIRED

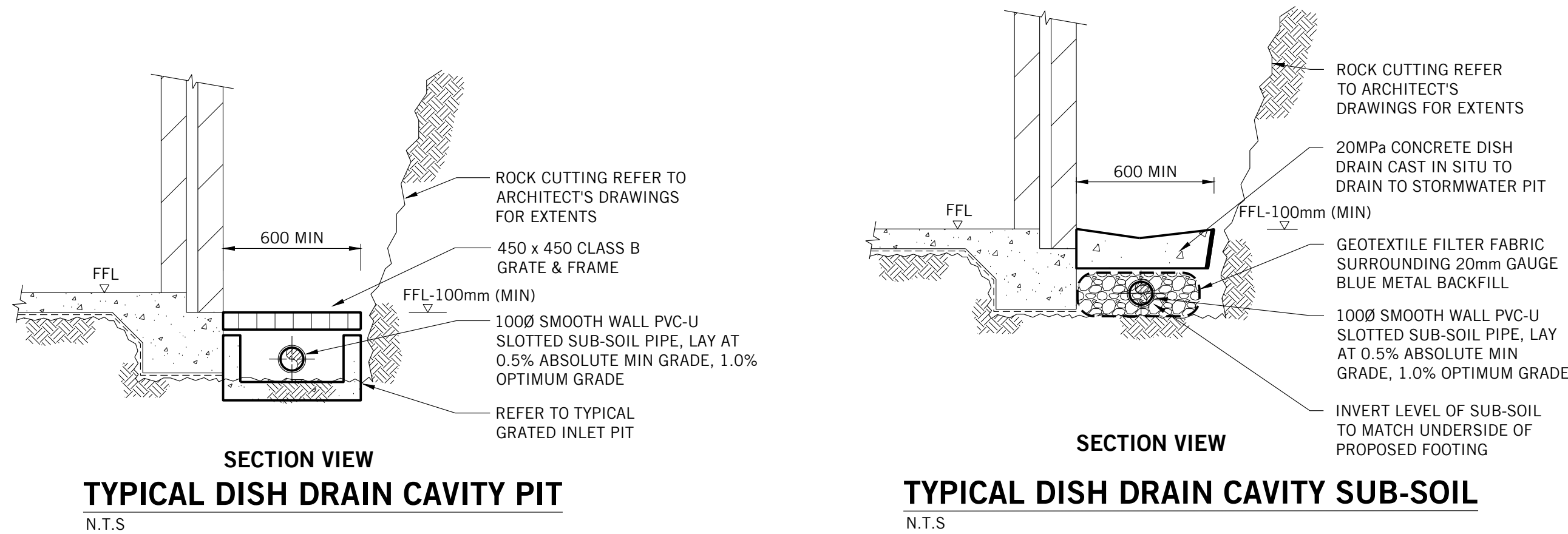
DASHED LINE DENOTES BOUNDARY LINE

REFER TO DRAWING NO. SWDA 1.1 FOR CONSTRUCTION NOTES

DRAINAGE SERVICES ON THIS DRAWING ARE SHOWN BELOW THE FLOOR U.N.O

PRESSURE SERVICES SHOWN ON THIS DRAWING ARE LOCATED AT HIGH LEVEL UNLESS NOTES OTHERWISE

**BASEMENT LAYOUT**  
SCALE 1:100



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Title  
**STORMWATER DRAINAGE SERVICES  
BASEMENT LAYOUT AND DETAILS**

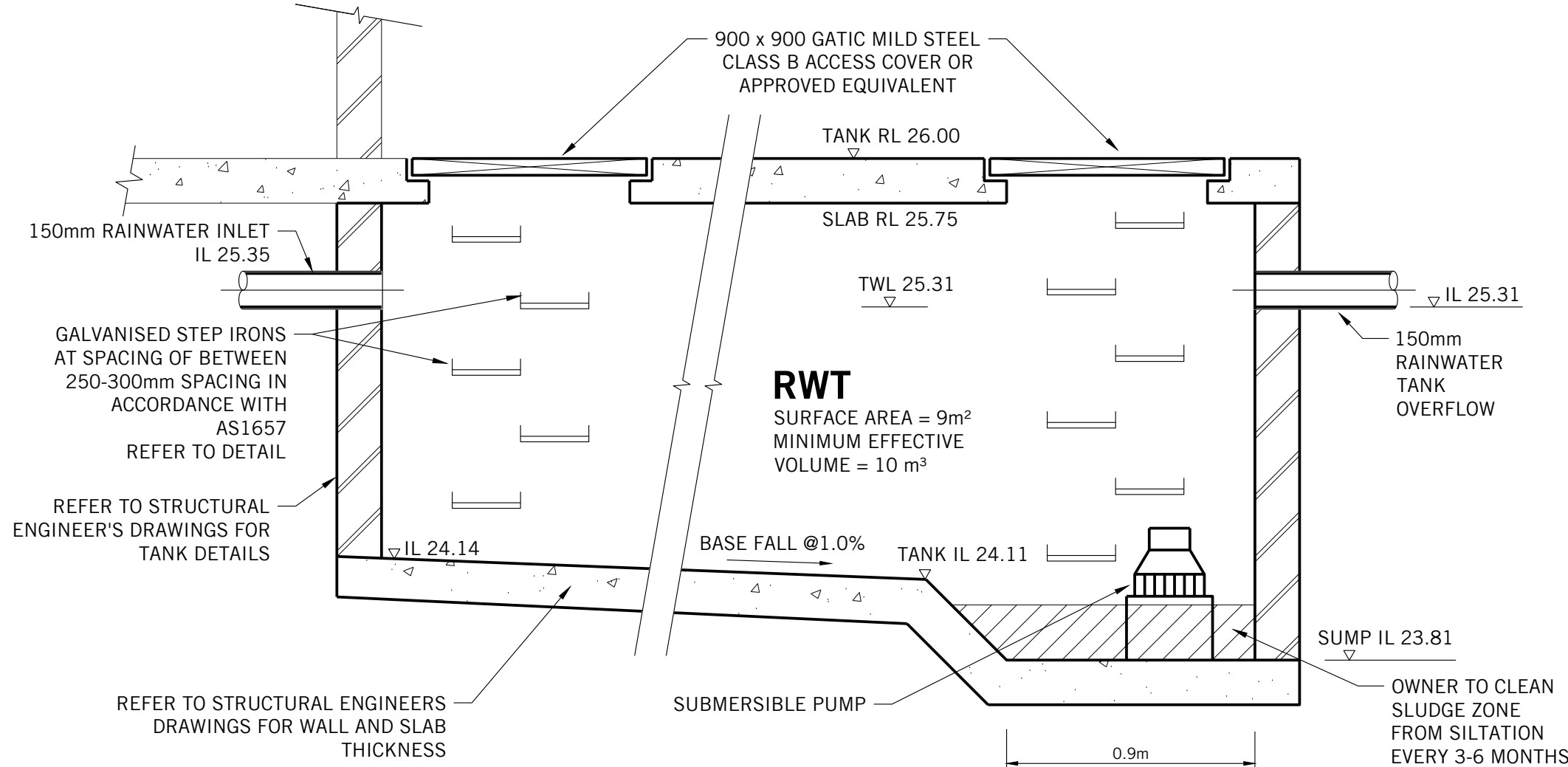
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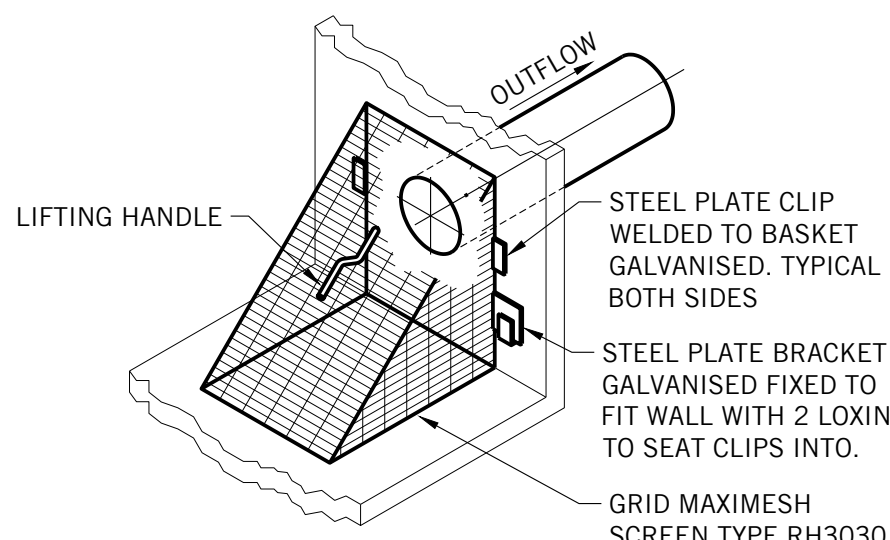
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**SECTION - RAINWATER HARVESTING TANK**  
N.T.S.



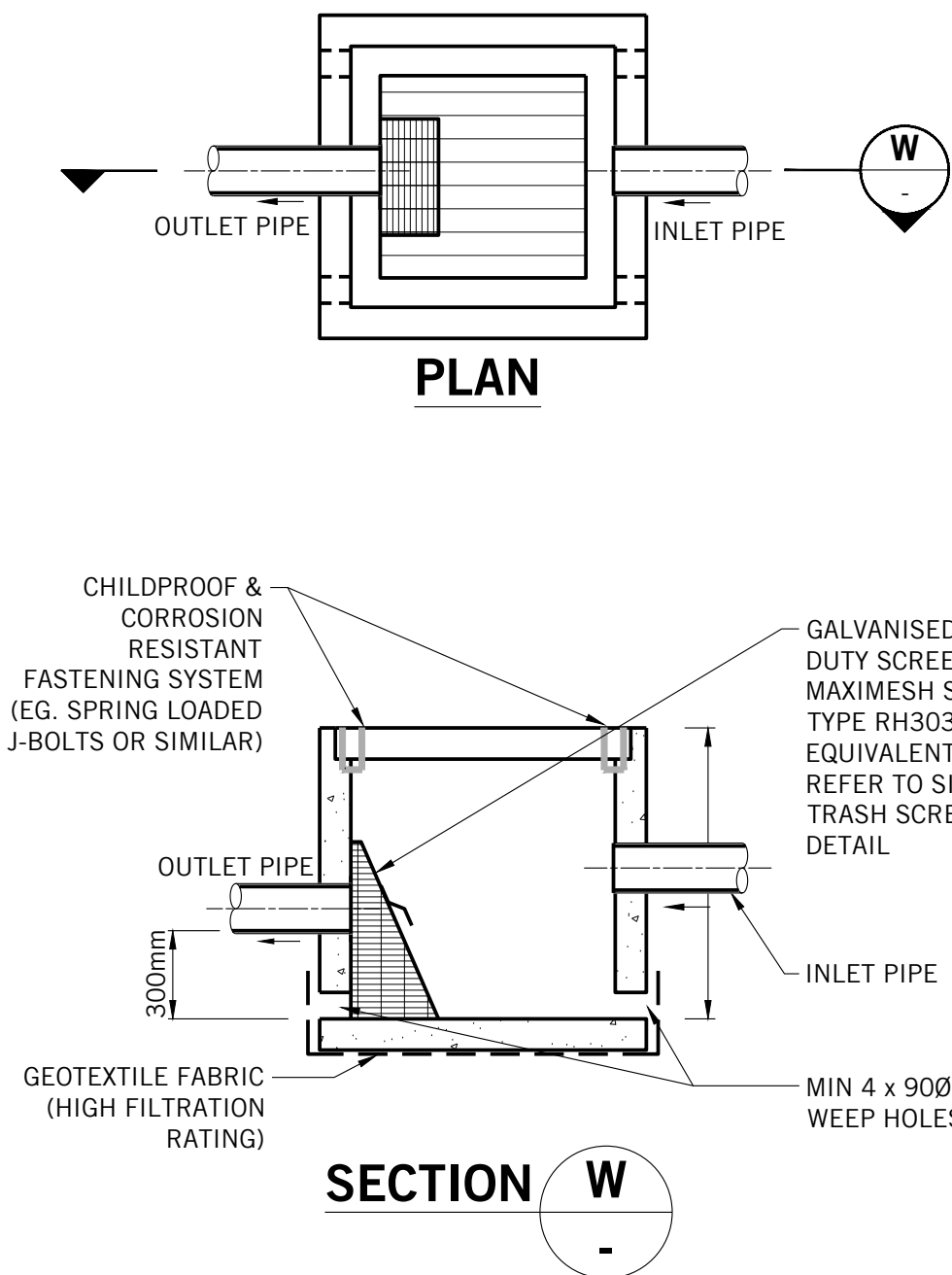
MAINTENANCE ACTION	FREQUENCY	RESPONSIBILITY	PROCEDURE
SILT TRAP PIT	MONTHLY AND AFTER HEAVY RAINFALL EVENTS	PROPERTY OWNER	OPEN GRATE AND REMOVE TRASH OR LEAF LITTER THAT HAS BEEN CAPTURED BY THE TRASH SCREEN. REMOVE ALL SILT IN SUMP AND DISPOSE IN GARDEN WASTE BIN. REMOVE ANY BLOCKAGES OVER WEEP HOLES IN BASE. ENSURE TRASH SCREEN IS SECURELY FIXED AND REPLACE GRATE CORRECTLY.



**SILT TRAP TRASH SCREEN DETAIL**  
N.T.S.

- NOTES
- 1) PIT DIMENSIONS:  
600 x 600 FOR  $d \leq 0.9$   
600 x 900 FOR  $0.9 < d \leq 1.2$   
900 x 900 FOR  $1.2 < d$  (AS SHOWN ON PLAN)
  - 2) PITS TO BE CONSTRUCTED FROM - CAST IN-SITU CONCRETE, PRECAST CONCRETE OF DOUBLE BRICK.
  - 3) A SIGN SHALL BE CONSTRUCTED ADJACENT TO THE PIT STATING: "THIS SEDIMENT / SILT ARRESTOR PIT SHALL BE REGULARLY INSPECTED AND CLEANED".

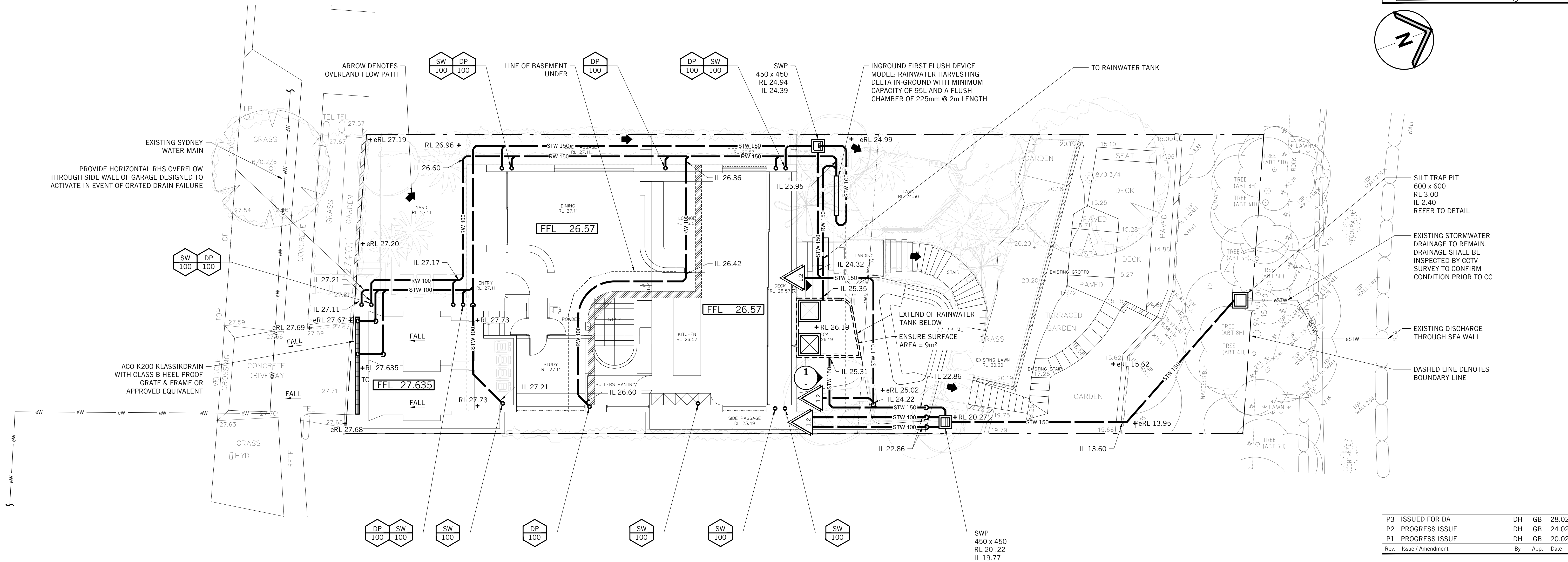
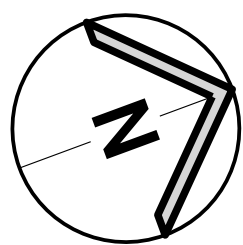
**SILT TRAP PIT**  
N.T.S.





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Title

**STORMWATER DRAINAGE SERVICES  
GROUND FLOOR PLAN**

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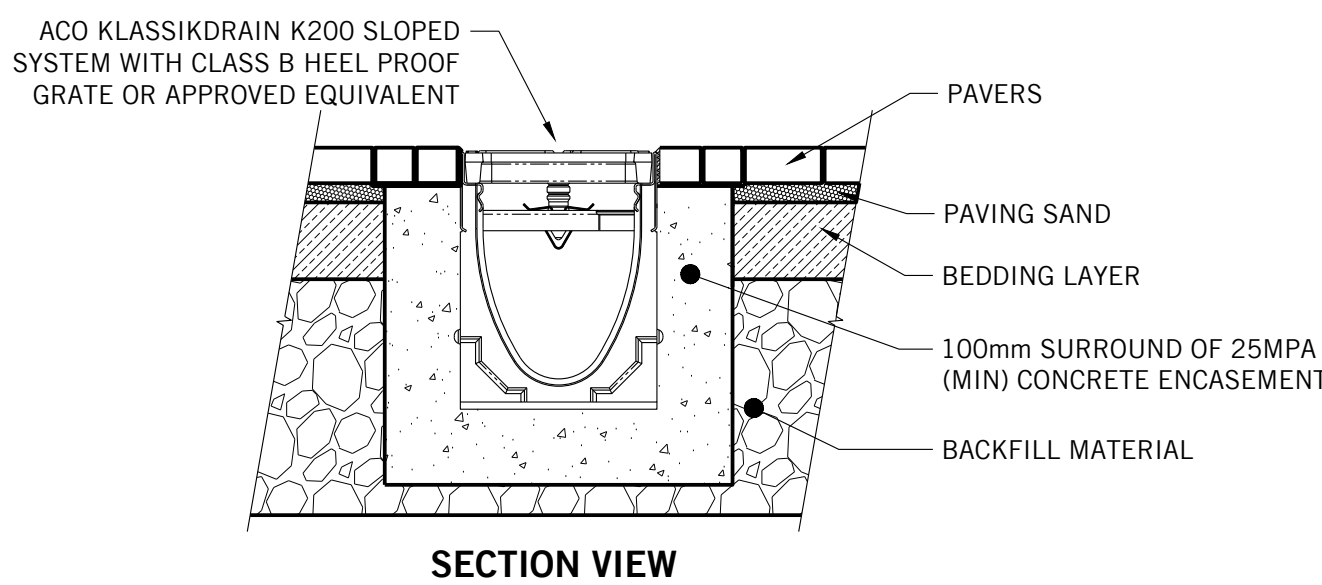
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<b>2019H0273</b>	<b>SWDA 1.3</b>	<b>P3</b>
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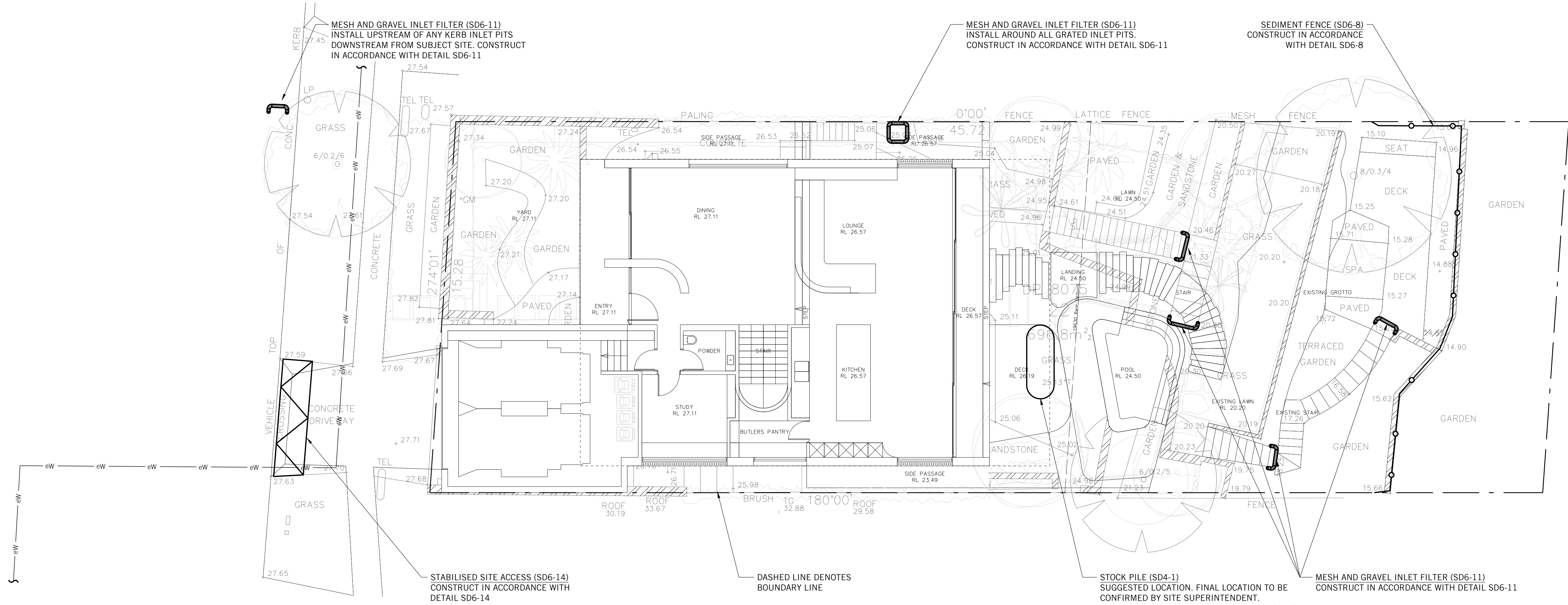


SECTION VIEW

## TRENCH GRATE (200mm WIDE) CLASS B

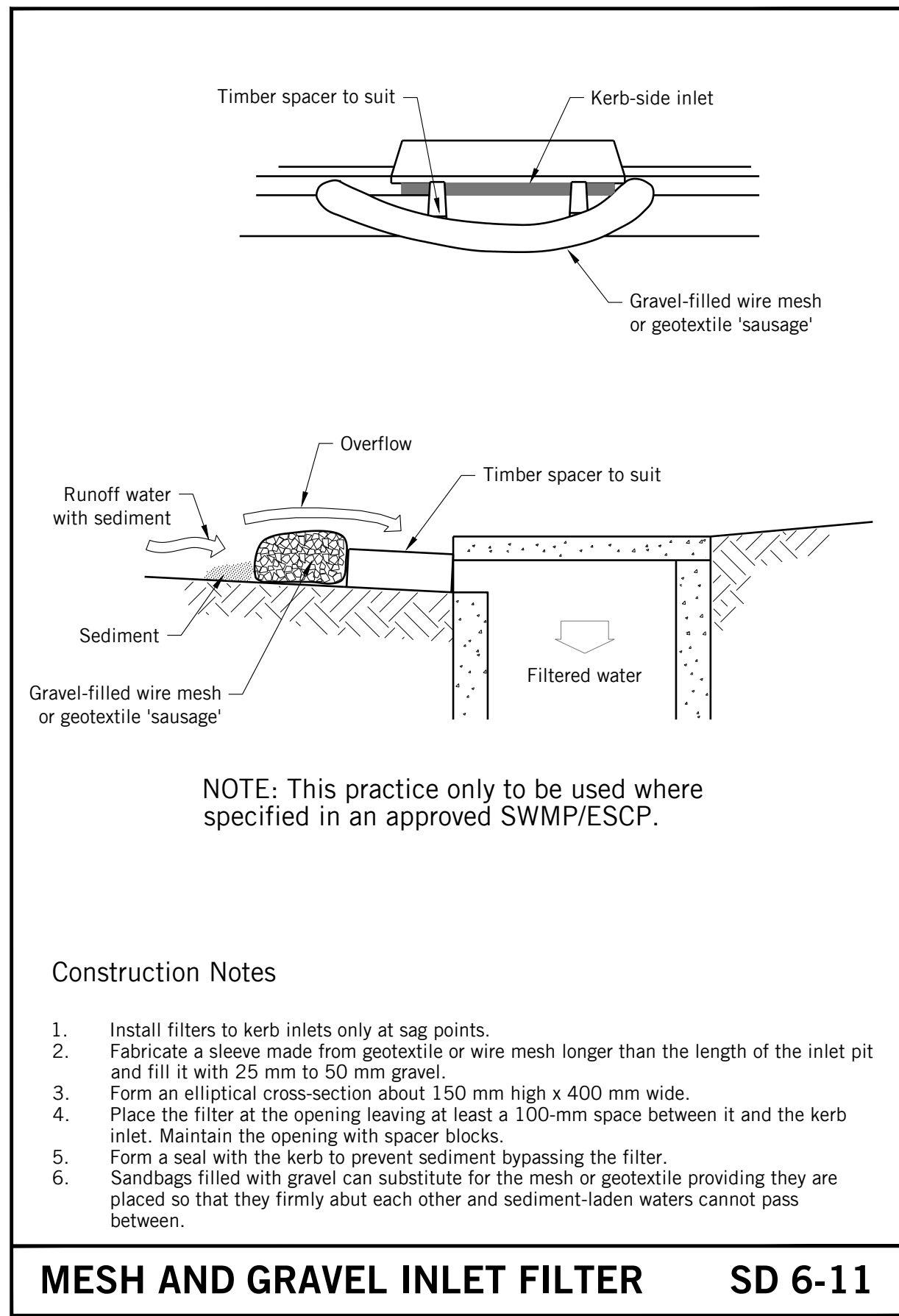
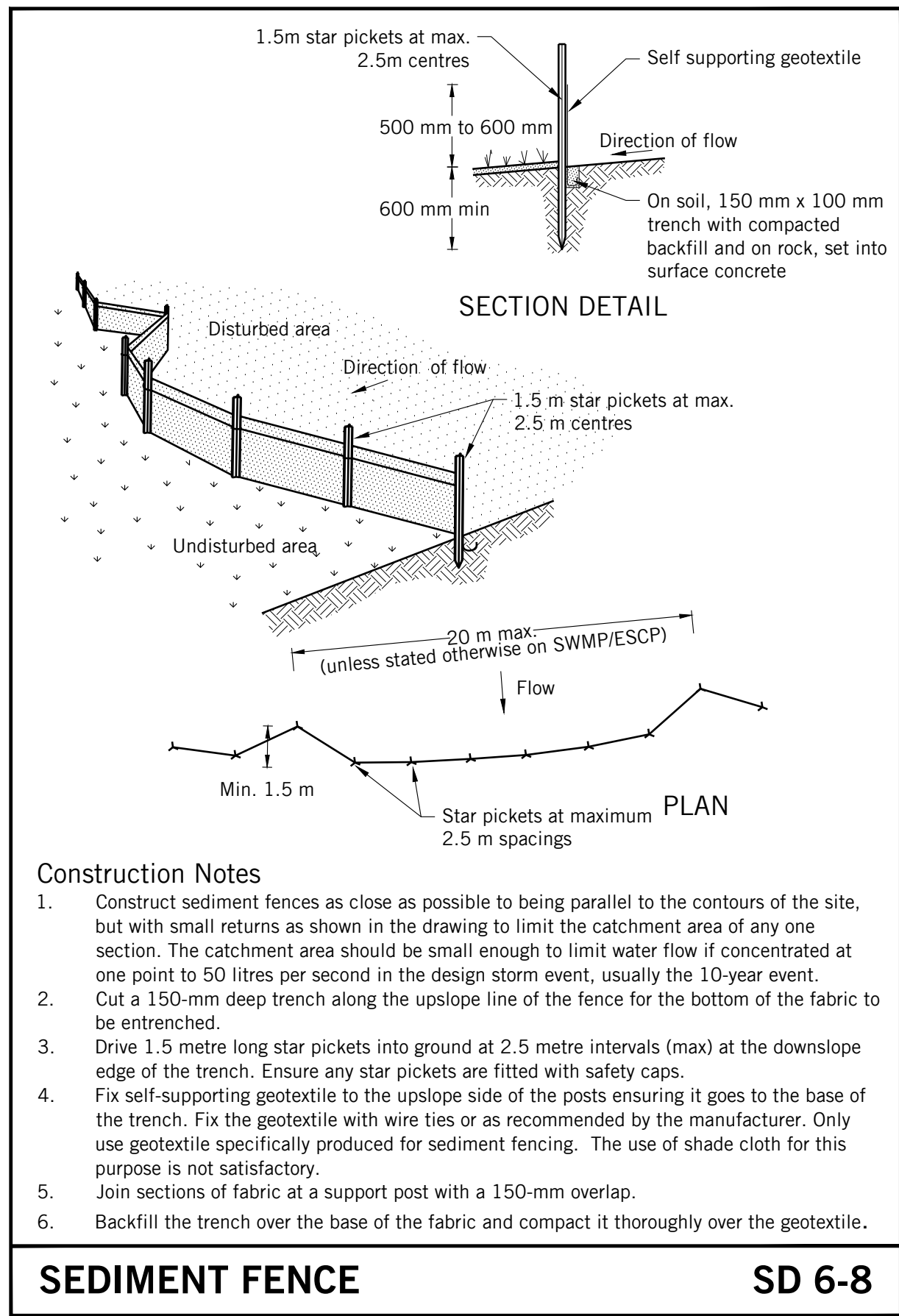
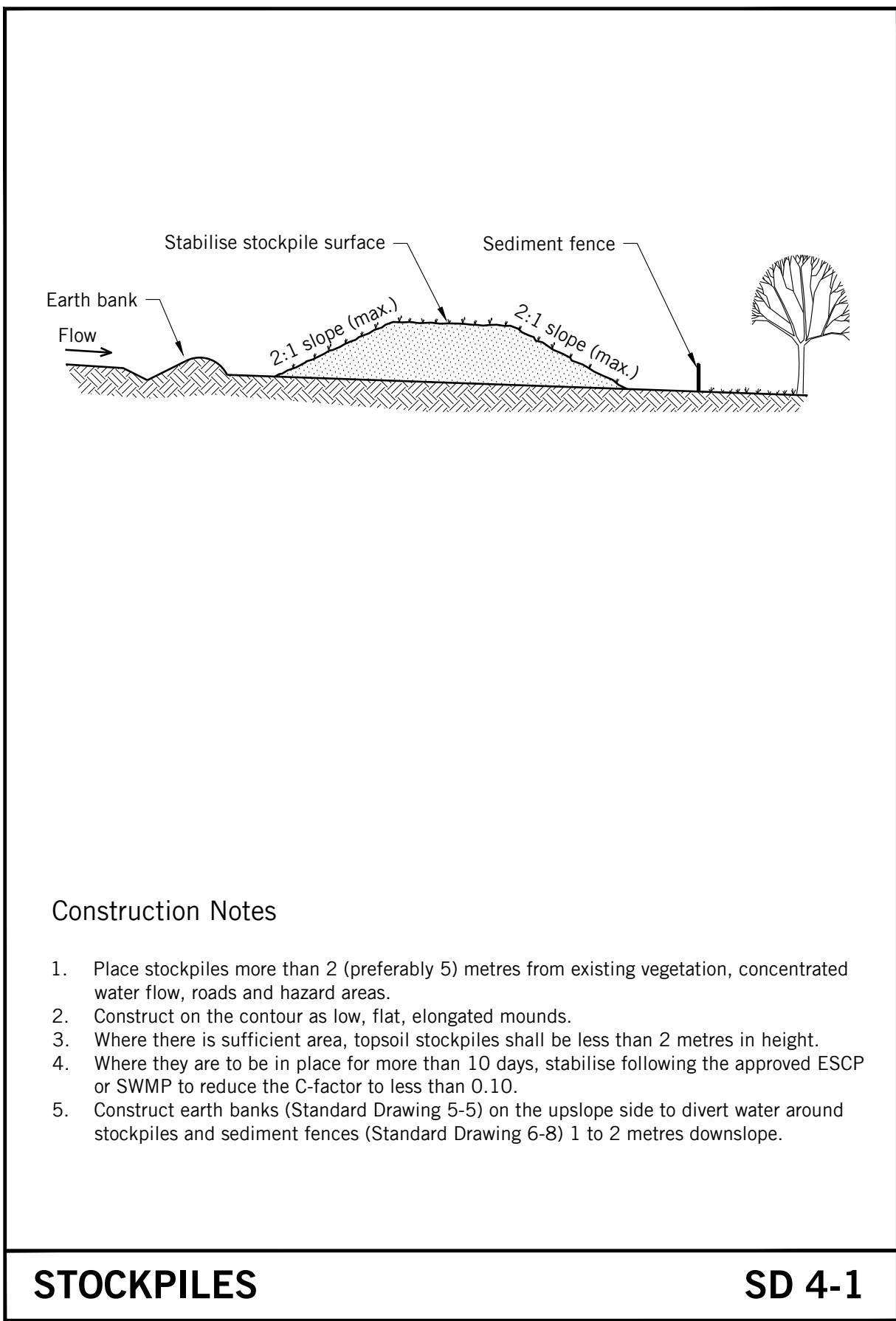
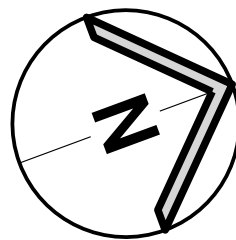
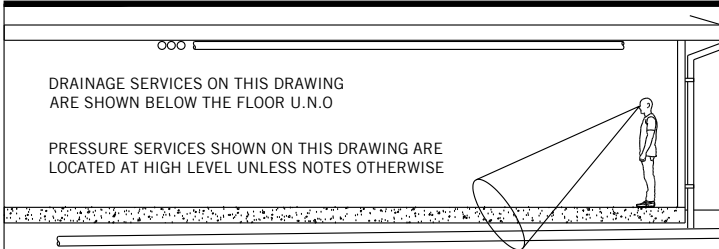
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REFER TO DRAWING NO. SWDA 1.1 FOR CONSTRUCTION NOTES



## EROSION AND SEDIMENT CONTROL PLAN

- MEASURES PROVIDED WILL BE TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE. ALL WORKS SHALL BE ERECTED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 'BLUE BOOK'-MANAGING URBAN STORMWATER (MUS); SOILS AND CONSTRUCTION, LANDCOM (VOL 1), NORTHERN BEACHES COUNCIL'S DEVELOPMENT CONTROL PLAN (DCP) AND THE "DO IT RIGHT ON SITE, SOIL AND WATER MANAGEMENT FOR THE CONSTRUCTION INDUSTRY" PUBLISHED BY THE SOUTHERN SYDNEY REGIONAL ORGANISATION OF COUNCILS 2001.
- ALL EXCAVATION WORKS ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, IF AVAILABLE, AND THE STRUCTURAL ENGINEER'S DRAWINGS.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
- MESH AND GRAVEL INLET FILTERS (SD 6-11) TO BE INSTALLED UPSTREAM OF PROPOSED STORMWATER PITS AS WELL AS EXISTING STORMWATER PITS DOWNSTREAM OF DISTURBED AREAS.
- TOP SOIL WILL BE STRIPPED AND STOCKPILED (SD 4-1) FOR LATER USE IN LANDSCAPING.
- ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- TOP SOIL WILL BE RE SPREAD AND ALL DISTURBED AREAS WILL BE REHABILITATED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS.
- ALL SEDIMENT TO BE STORED AND COLLECTED BY A LIQUID WASTE COMPANY FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.
- ROADS AND FOOTWAYS TO BE SWEEPED AT THE END OF THE DAY.
- ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY AND AFTER RAINFALL EVENTS TO MAKE SURE THEY ARE MAINTAINED TO A FULLY FUNCTIONAL CONDITION.

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Project	<b>NEW RESIDENCE 44 BOWER STREET MANLY</b>
Title	<b>STORMWATER DRAINAGE SERVICES EROSION AND SEDIMENT CONTROL</b>

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<b>2019H0273</b>	<b>SWDA 1.4</b>	<b>P3</b>

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