

DRAINAGE LAYOUT PLAN

SCALE : 1:100

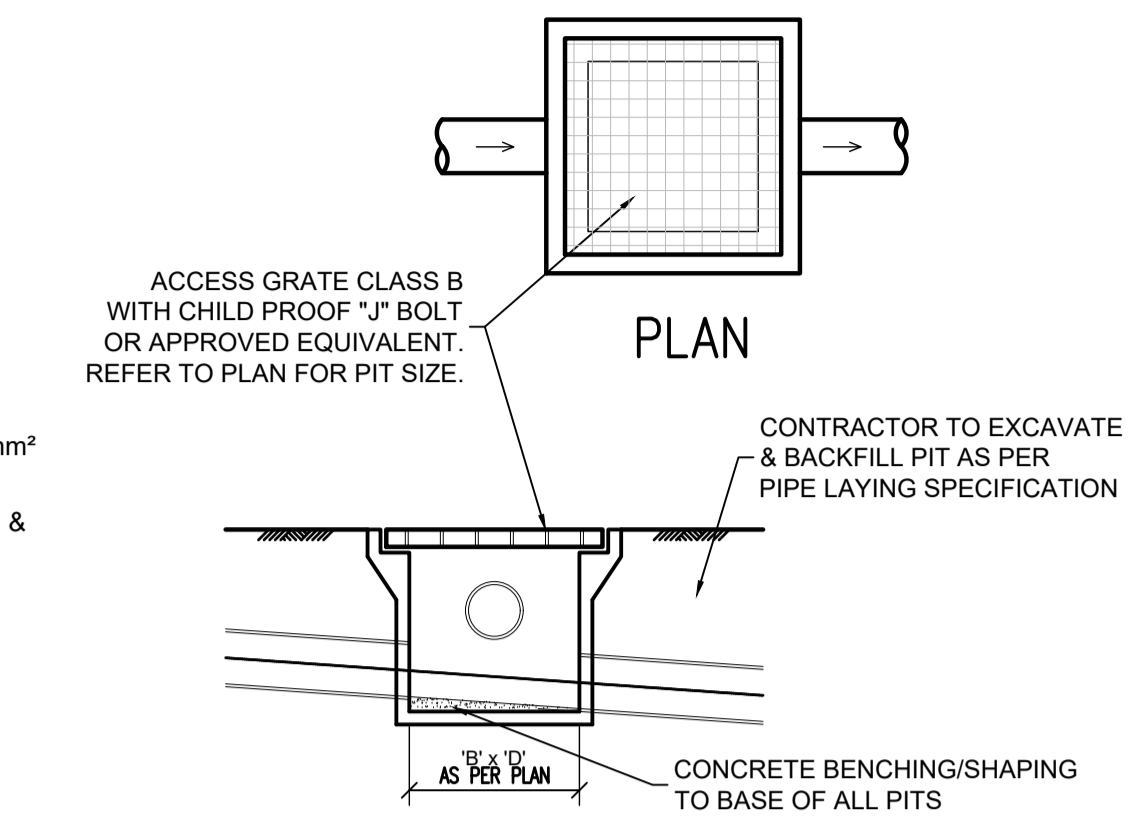
ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN. UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER SIZE = 6700 mm² MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500 APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN EXACT LOCATIONS & DEPTHS TO BE ACCURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORKS

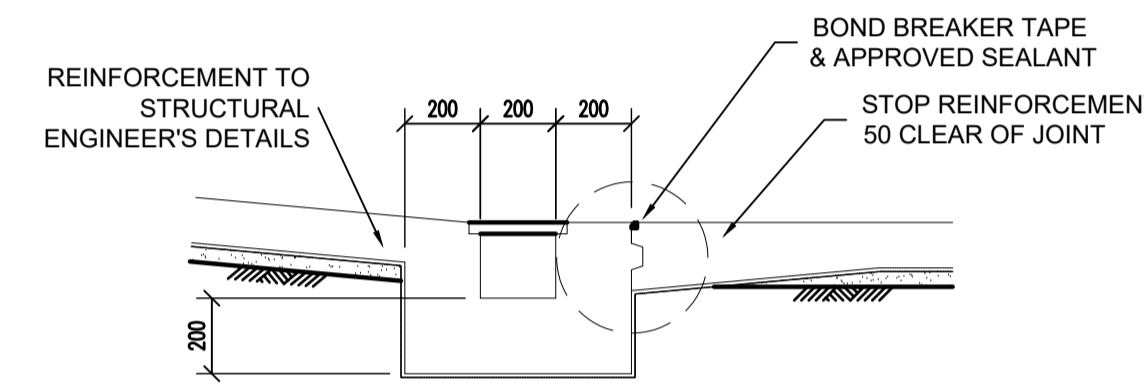
THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

- DP = Ø100, UNO.
- FD = FLOOR OUTLET, REFER TO DETAIL
- SIP = SURFACE INLET PIT (NO LINTEL)
- 100Ø = Ø100 CHARGED LINE
- IP = Ø150 INSPECTION POINT
- RWH = RAIN WATER HEAD
- RWO = RAIN WATER OUTLET (300 x 300)
- FG = FLOOR GULLY Ø150
- E = RAINWATER SPREADER
- RL 16.85 = PROPOSED FINISHED SURFACE LEVEL

EXISTING PIT 1 SL27.22 IL TBC ON SITE



SECTION-TYPICAL SURFACE INLET PIT TYPICAL FOR ALL PITS IN NON-TRAFFIC AREAS



SECTION-TYPICAL GRATED DRAIN NTS

- NOTES
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS AND THE SPECIFICATION.
 - PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR SHALL SATISFY HIMSELF OF THE CORRECT LOCATION OF EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
 - TRAFFIC MANAGEMENT MEASURES HAVE TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION, ALL IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ACCESS ALONG THE FOOTPATH.
 - THE CONTRACTOR SHALL EFFECT TEMPORARY DRAINAGE MEASURES TO AVOID LOCALISED PONDING OF SURFACE RUN-OFF.
 - REFER TO ARCHITECT'S DRAWINGS FOR ALL DETAILS (LEVELS, GRADING ETC.) OF DRIVEWAYS, CONCRETE AND PAVED AREAS, AND RETAINING WALL TYPES AND LOCATIONS.
 - REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS AND EXTENT OF ALL LANDSCAPED AREAS.
 - ALL SWD PIPES ARE UPVC AT 1.0% MINIMUM GRADE (UNO).
 - SWD PITS CAN BE PRE-CAST SIZED AS FOLLOWS:
450mm SQ. UP TO 600mm DEEP
600mm SQ. UP TO 1000mm DEEP
 - ALL PITS LOCATED IN TRAFFICABLE AREAS, (IE, DRIVEWAYS) TO HAVE MEDIUM DUTY GRATED COVERS SUITABLE FOR WITHSTANDING LOADS ASSOCIATED WITH SMALL TRUCKS.
 - PROVIDE STEP IRONS TO ALL PITS GREATER THAN 1.2m DEEP.
 - THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF WORKS.
 - TOPSOIL SHALL BE STRIPPED DN STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL IS TO BE RESPREAD LATER ON AREAS TO BE REVEGETATED.
 - THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES. ALL SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
 - THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.

ROOF DRAINAGE PLAN

1:100 @ A1

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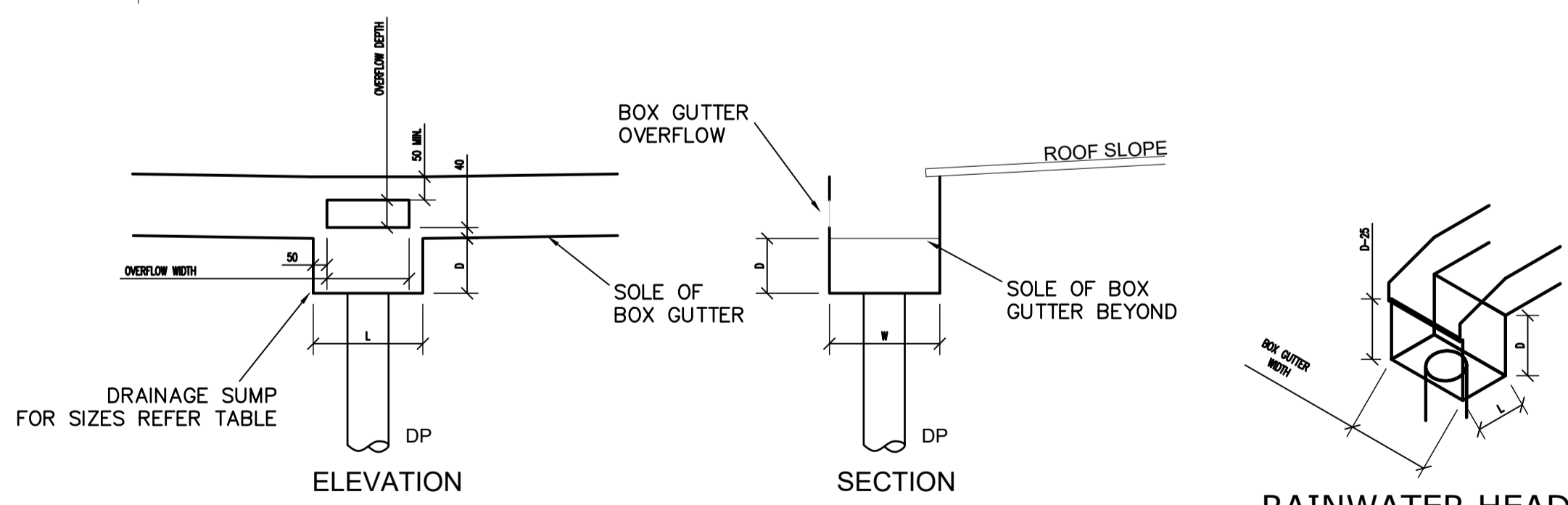
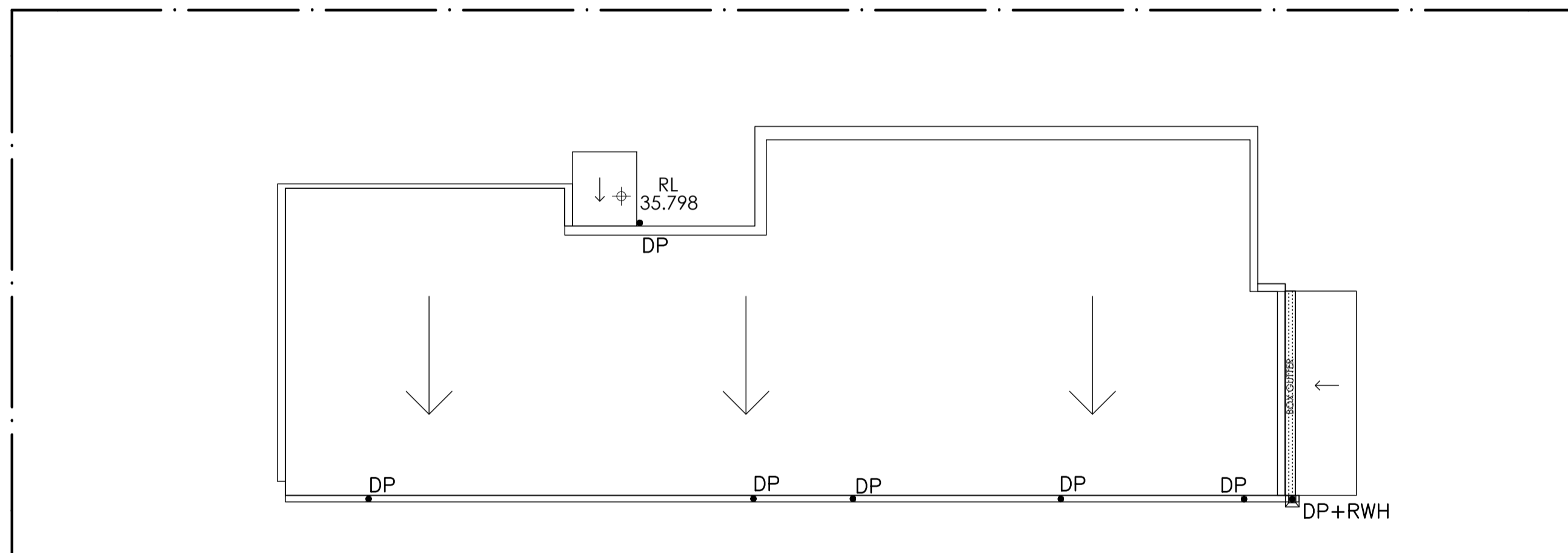
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PLEASE NOTE - AS PER BASIX REPORT

- MINIMUM TANK SIZE TO BE 1000 LITRES
- MINIMUM ROOF CATCHMENT AREA OF 100 SQUARE METRES TO BE COLLECTED BY RAINWATER TANK



TYPICAL BOX GUTTER DETAIL WITH SUMP OVERFLOW

1:20

BOX GUTTER, RAINWATER HEAD & SUMP SIZING SCHEDULE

NODE	BOX GUTTER SIZE	RAINWATER HEAD SIZE	SUMP SIZE	OVERFLOW TO SUMP	DOWNPIPE Ø mm
BG1	300W x 150D	150Lx300Wx200H	200L X 150D	200W X 100H	150

LEGEND	
RL 00.000	NEW REDUCED LEVEL
GFL. 00.00	GROUND FLOOR LEVEL
FFL. 00.00	FINISH FLOOR LEVEL
A,B,C,D, etc.	REFER TO PIPE SCHEDULE
L1	PIPE LABEL
PIT P1	SURFACE INLET PIT
● DP	DOWNPIPE
□ RWH	RAIN WATER HEAD
▣	PIT: SIZE AS MARKED
▣	SEALED PIT: SIZE AS MARKED
▬	W:200mm x D:200mm GRATED DRAIN
→	GROUND FALL
→	OVERLAND FLOW
---	UPVC PIPE TO RAIN WATER TANK
---	UPVC DRAINAGE PIPE IN GROUND
---	RWT OVERFLOW PIPE & OUTLET PIPE

PIPE SCHEDULE TO ALL GUTTERS			
TAG	PIPE Ø	MATERIAL	Min. GRADE
A	100	PVC	1%
B	100 CHARGED	PVC	1%
C	100 OVERFLOW	PVC	-
DP	100	PVC	-

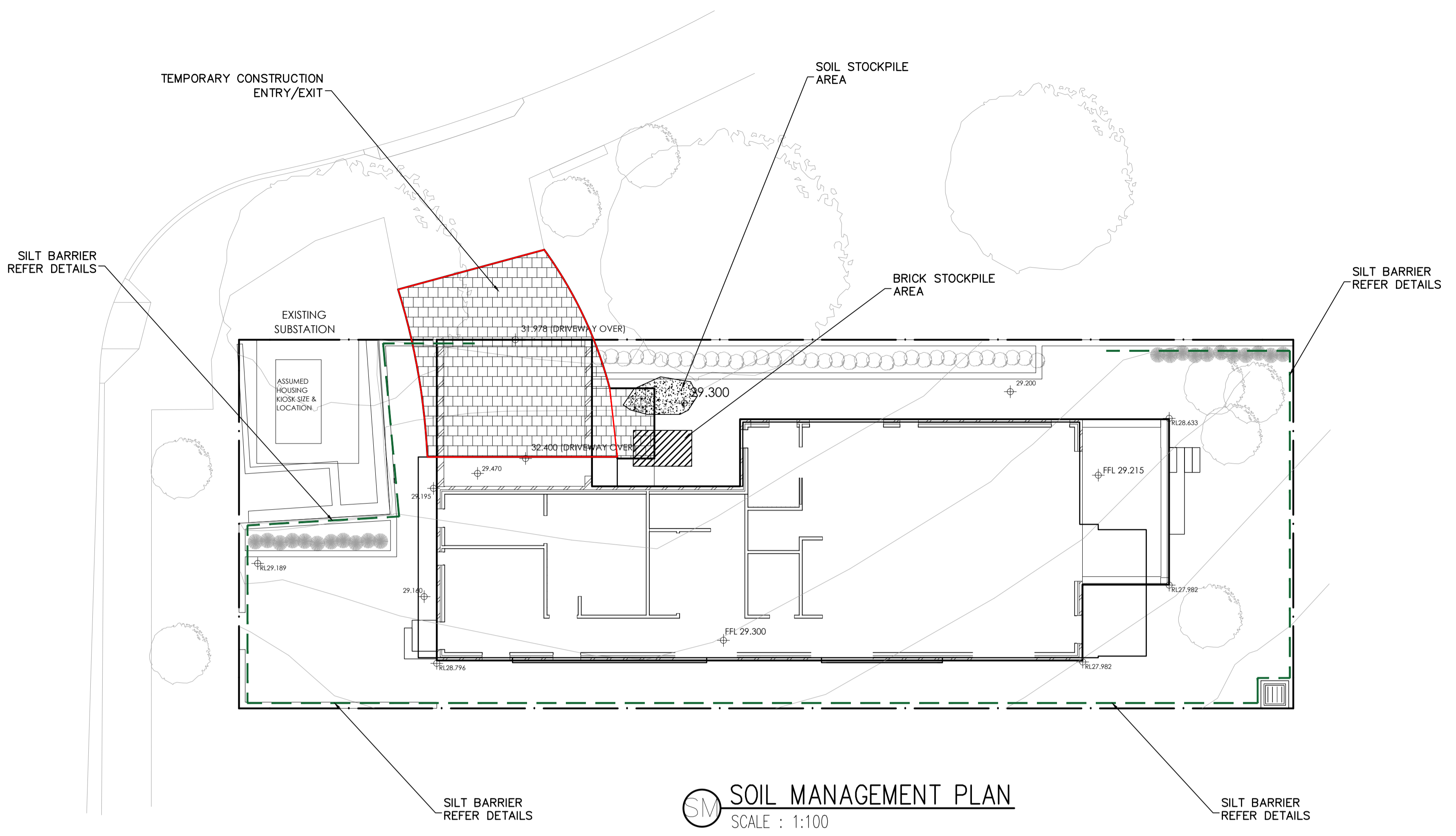
REVISION	AMENDMENT	ISSUE DATE	ISSUE	ISSUED TO	ISSUE DATE
D	MINOR AMENDMENTS	06/10/2022			
C	MINOR AMENDMENTS	05/10/2022			
B	MINOR AMENDMENTS	27/09/2022			
A	PRELIMINARY DESIGN	20/09/2022			



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PROJECT
PROPOSED DEVELOPMENT
LOT 9, 6 ORCHARD STREET
WARRIWOOD
CLIENT
SKYCORP
ARCHITECT / PROJECT MANAGER
PTI ARCHITECTURE

DRAWING TITLE			
STORMWATER LAYOUT			
SCALES A1 - 1:100	DESIGNED A.C.	DRAFTED M.W.	
DRAWING NO. C22065-SW 100	APPROVED A.C.	REVISION D	

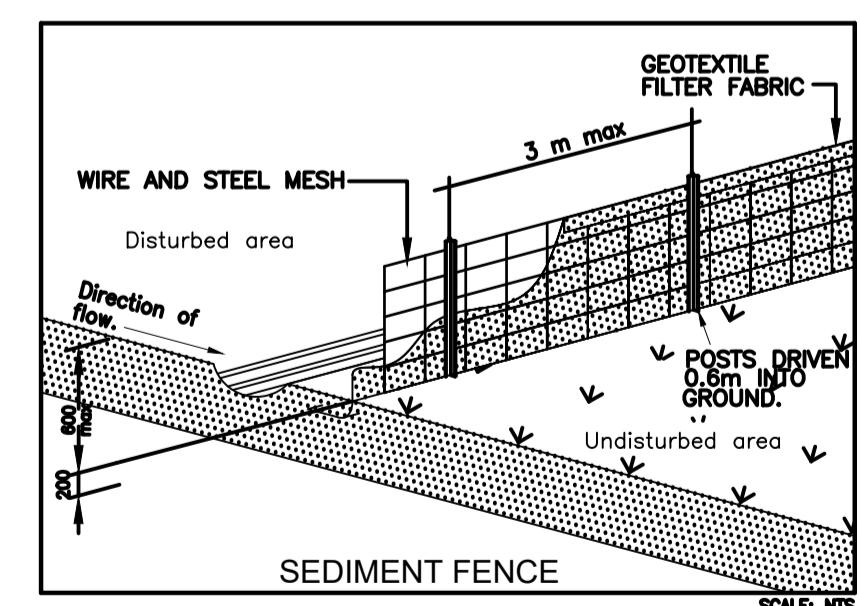
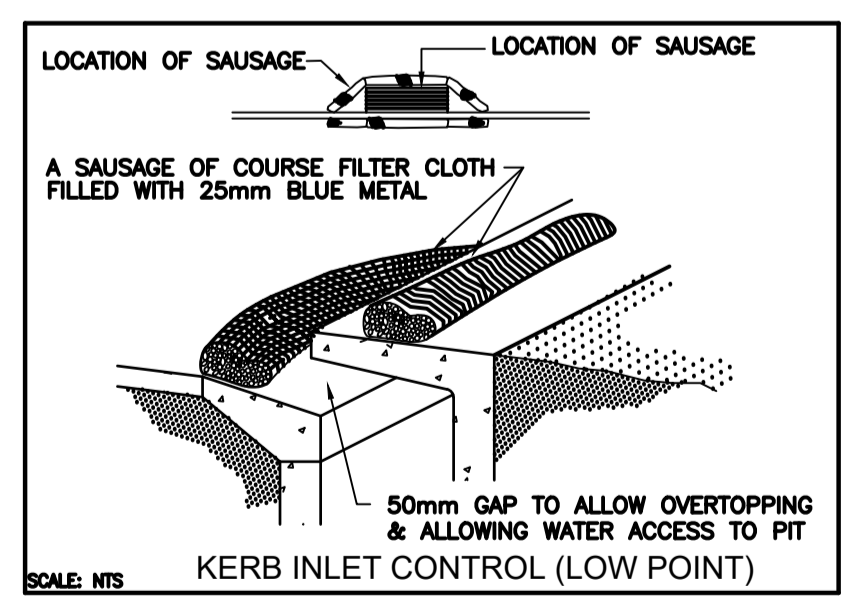
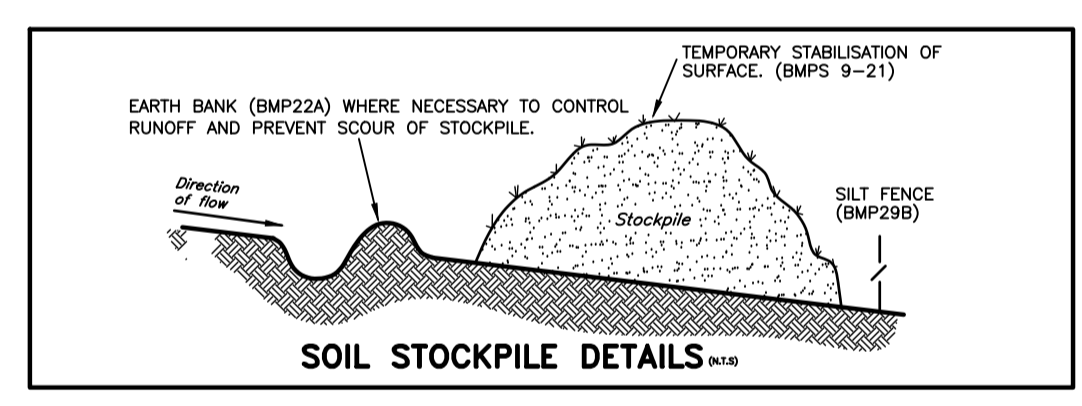
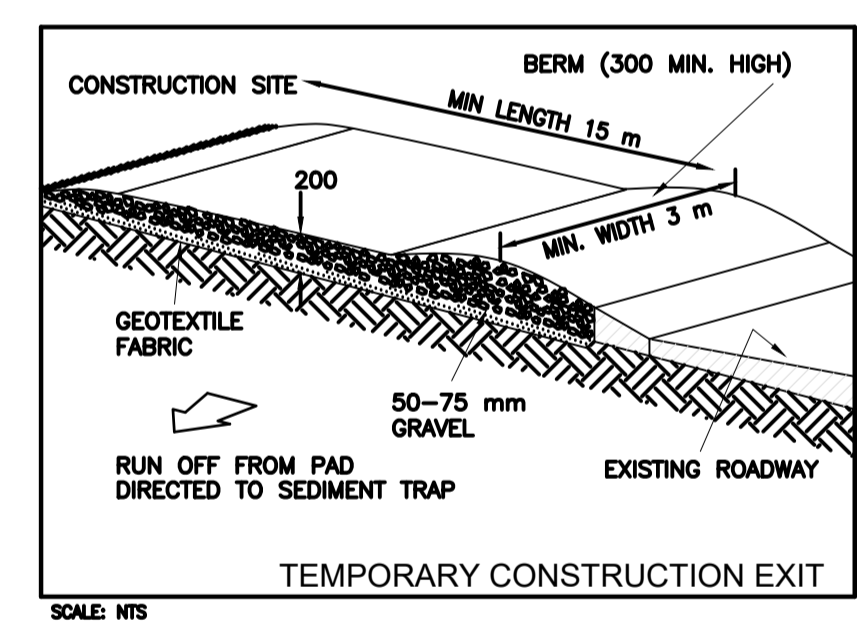
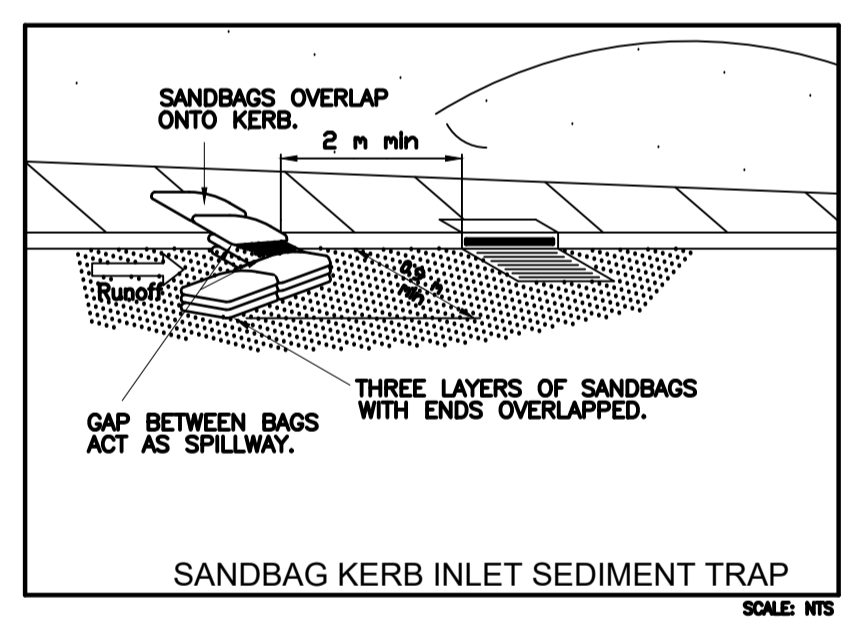


SOIL EROSION CONTROL INSTRUCTIONS

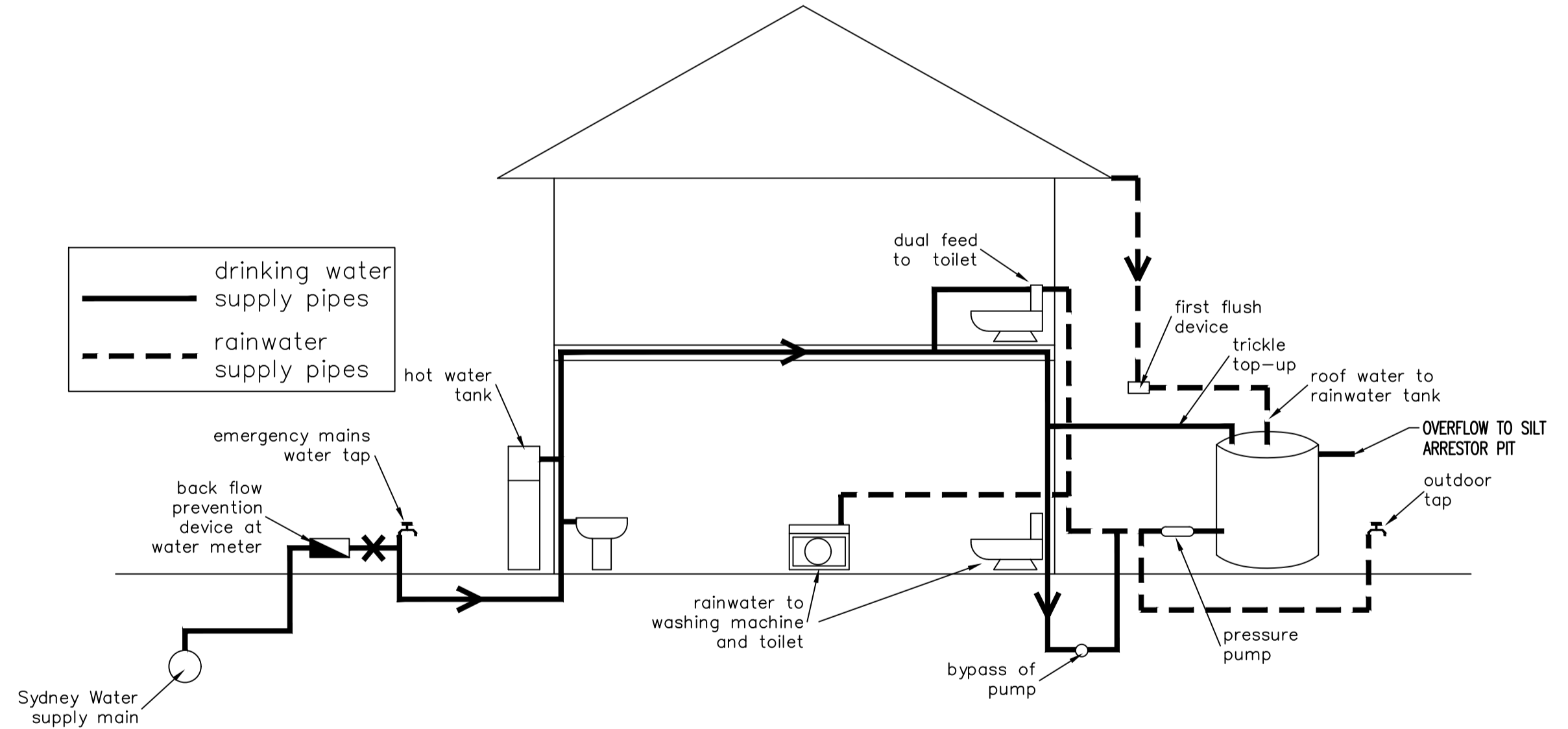
- EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW AS A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
 - 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
 - 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 & 16 METRES
 - 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 & 20 METRES
 - 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES
- ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
- WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.1 (60% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
- ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
- FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20KG/HA AND OATS.
- PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS 20KG/HA
- REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

DUST CONTROL INSTRUCTIONS

- ALL STOCKPILED MATERIAL OR SEDIMENT COLLECTION TO BE SPRAYED BY LIGHTLY WIDE ANGLED WATER
- THIS TEMPORARY MECHANICAL METHOD CONFINES AND SETTLES THE DUST FROM THE AIR BY DUST AND WATER PARTICLE ADHESION. WATER IS SPRAYED THROUGH NOZZELS OVER THE PROBLEM AREA.



RAINWATER SIGN
NTS



RAINWATER TANK EXPLANATORY DIAGRAM

SCALE : NTS
NOTE:
1. TANK WATER IS NOT RECOMMENDED FOR HUMAN CONSUMPTION.
2. A SIGN STATING NOT FOR DRINKING MUST BE AFFIXED TO THE TANK AND OR TAP FIXTURE
3. ANY PUMP INSTALLED FOR THE RAINWATER TANKS IS TO BE NO LOUDER THAN 5dB(A) ABOVE BACKGROUND NOISE LEVELS

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