DRAWING INDEX			
DRAWING NUMBER	DRAWING TITLE		
GD07_00	COVER PAGE AND DRAWING INDEX		
GD07_01	TYPICAL ROCKBORE - FOR FRACTURED ROCK (SECTION)		
GD07_02	TYPICAL ROCKBORE - FOR FRACTURED ROCK (PLAN)		
GD07_03	TYPICAL ROCKBORE FILTER CAGE - FOR FRACTURED ROCK (DETAILS)		
GD07_04	TYPICAL STORMWATER SOAKPIT (PLAN) - FOR PERMEABLE SOIL		
GD07_05	TYPICAL STORMWATER SOAKPIT (SECTION) - FOR PERMEABLE SOIL		
GD07_06	TYPICAL STORMWATER SOAKPIT WITH STORAGE MANHOLE (PLAN) - FOR PERMEABLE SOIL		
GD07_07	TYPICAL STORMWATER SOAKPIT WITH STORAGE MANHOLE (SECTION A-A) - FOR PERMEABLE SOIL		
GD07_08	TYPICAL GROUNDWATER RECHARGE SOAKPIT – FOR PEAT SOIL (PLAN)		
GD07_09	TYPICAL GROUNDWATER RECHARGE SOAKPIT – FOR PEAT SOIL (SECTION A-A)		
GD07_10	TYPICAL GROUNDWATER RECHARGE SOAKPIT – FOR PEAT SOIL (SECTION B-B)		
GD07_11	EXAMPLES OF PRE-TREATMENT DEVICES - FOR HIGH CONTAMINANT GENERATING SOURCES (ROADS, CAR PARKS)		

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED).

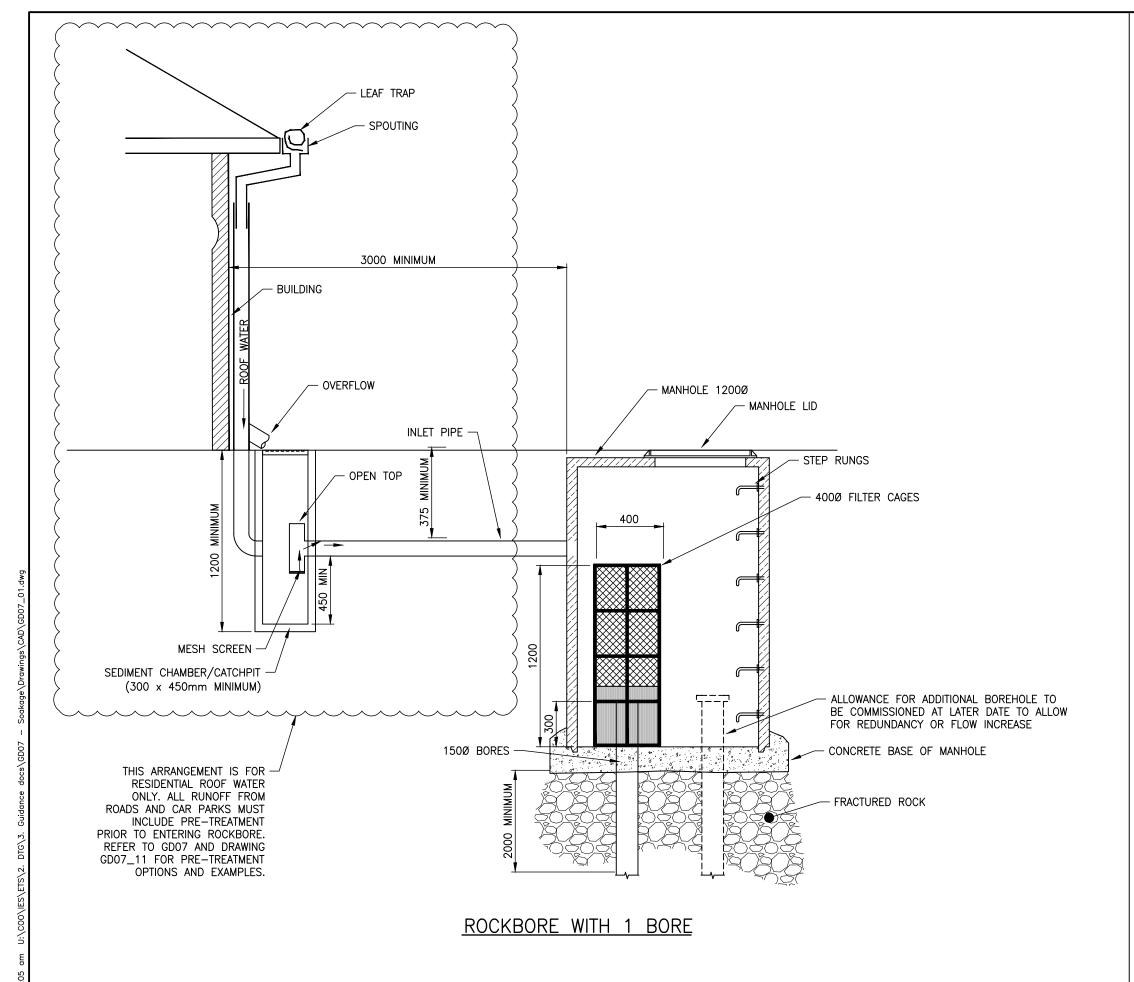
SOAKAGE GUIDELINE DOCUMENT STANDARD DETAILS

REVISION: 0

REV DATE: 21/06/2021 CAD FILENAME: GD07_00.DWG AUCKLAND COUNCIL

Auckland Council
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ORIGINAL SCALE SCALE: N.T.S. ENVIRONMENTAL-SW DRAWING SET SHEET GD07 1 OF 1 DRAWING No. REV 0 GD07_00



1. MINIMUM MANHOLE DIAMETER SIZED TO ACCOMODATE AN ADDITIONAL BOREHOLE TO BE COMMISSIONED AT A LATER DATE.

No. OF BORES	ALLOWANCE FOR ADDITIONAL BORES	MIN. MANHOLE DIAMETER FOR ROCKBORE
1	1	1200
2	1	1500
3	1	1800

- 2. FLOW TESTING OF ROCKBORES TO BE CARRIED OUT BEFORE AND AFTER CAGE INSTALLATION.
- 3. NEW ROCKBORE MINIMUM DEPTH OF MANHOLE 1.5m. MANHOLES DEEPER THAN 2.5m WILL NEED DISCUSSION AS ACCESSIBILITY FOR MAINTENANCE BECOMES AN ISSUE.
- 4. MINIMUM DEPTH OF BOREHOLE FROM CONCRETE BASE OF MANHOLE IS 2.0m.
- ACCESS RUNGS SHALL BE PROVIDED FOR MANHOLE ACCESS. REFER TO DRAWING IN STORMWATER CODE OF PRACTICE FOR
- 6. BOREHOLE POSITIONS RELATIVE TO MANHOLE LID NOT SHOWN TO ACCURATELY TO AID CLARITY. POSITION SHOULD BE AS PER DRAWING GD07_02.
- 7. SETBACK REQUIREMENTS

BUILDINGS AND PROPERTY BOUNDARIES:

- A SETBACK DISTANCE OF 3m IS RECOMMENDED FOR BUILDINGS AND PROPERTY BOUNDARIES. SPECIFIC GEOTECHNICAL DESIGN WILL BE REQUIRED WHERE THE DEVICE MAY AFFECT ADJACENT STRUCTURES (SUBJECT TO COUNCIL APPROVAL).
- WHERE THIS IS NOT PRACTICALLY POSSIBLE A SITE-SPECIFIC GEOTECHNICAL DESIGN MUST BE COMPLETED TAKING INTO ACCOUNT THE EFFECTS OF THE SOAKAGE DEVICE ON BUILDING FOUNDATIONS AND POTENTIAL FOR FLOODING OF NEIGHBOURING PROPERTIES. THIS MUST BE DONE BY A CHARTERED GEOTECHNICAL ENGINEER OR A PROFESSIONAL ENGINEERING GEOLOGIST.
- DEVICES SHALL NOT BE PLACED BELOW BUILDINGS AND BUILDINGS SHALL NOT BE BUILT OVER SOAKAGE DEVICES.

RETAINING WALLS:

- FOR WALLS < 2m HIGH, THE SETBACK MUST NOT BE LESS THAN THE HEIGHT OF THE RETAINING WALL + 1.5m AND WHERE THE SOAKAGE DEVICE IS UP SLOPE OF THE WALL, THEN THE WALL MUST HAVE BEEN DESIGNED TO TAKE FULL WATER LOADING.
- THE ROCK BORE MUST BE DESIGNED TO DISCHARGE IN A ZONE THAT IS BELOW THE TOE OF ANY WALL WITHIN 10
- FOR WALLS > 2m HIGH, A SITE-SPECIFIC DESIGN MUST BE CARRIED OUT BY A GEOTECHNICAL ENGINEER, CONSIDERING RELEVANT GEOTECHNICAL ISSUES AND CUT-OFF DRAINAGE OF THE RETAINING WALL.

UNDERGROUND INFRASTRUCTURE:

- A SETBACK DISTANCE OF 2m IS REQUIRED FROM ANY EXISTING WATER AND WASTEWATER PIPES.
- DEVICES THAT WILL BE VESTED TO AUCKLAND TRANSPORT SHALL BE DESIGNED IN ACCORDANCE WITH THE AUCKLAND TRANSPORT CODE OF PRACTICE.
- 9. PIPE EMBEDMENT DETAILS FOR PRIVATE DRAINAGE SHALL COMPLY WITH BUILDING CODE AS PER NZS 7643.
- 10. PIPE EMBEDMENT DETAILS FOR THE PUBLIC DRAINAGE SHALL COMPLY WITH STORMWATER CODE OF PRACTICE (SWCOP) DRAWINGS.

SOAKAGE GUIDELINE DOCUMENT STANDARD DETAILS

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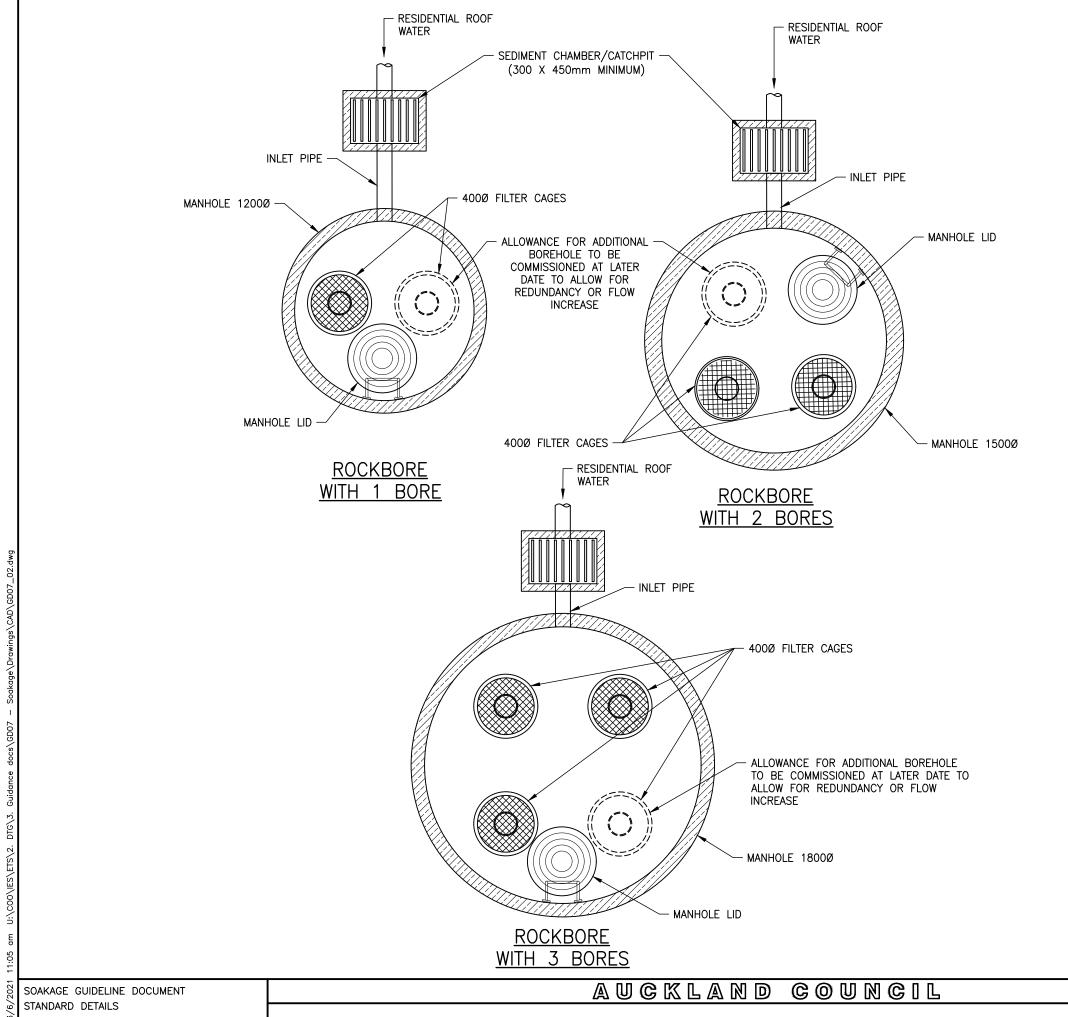
REV DATE: 21/06/2021 CAD FILENAME: GD07_01.DWG AUCKLAND COUNCIL

> TYPICAL ROCKBORE FOR FRACTURED ROCK (SECTION)



ENVIRONMENTAL-SW SCALE: N.T.S. DRAWING SET SHEET GD07 1 OF 1 DRAWING No. REV

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- 1. REFER TO DRAWING GD07_01 NOTES 1.
- 2. ALLOWANCE SHALL BE MADE FOR 1 ADDITIONAL BORE TO BE DRILLED FOR REDUNDANCY DUE TO BLOCKAGE OR INCREASED
- 3. ALL RESIDENTIAL ROOF WATER SHALL DISCHARGE TO SEDIMENT CHAMBER / CATCHPIT AND NOT DIRECTLY INTO THE DEVICE.
- 4. ALL RUNOFF FROM ROADS, CAR PARKS OR OTHER CONTAMINANT SOURCES MUST INCLUDE PRE-TREATMENT OF RUNOFF PRIOR TO ENTERING ROCKBORE. REFER TO GD07 AND DRAWING GD07_11 FOR PRE-TREATMENT OPTIONS AND EXAMPLES.
- 5. LEAF TRAP TO BE INSTALLED IN ROOF GUTTERS.

REVISION: 0

REV DATE: 21/06/2021 CAD FILENAME: GD07_02.DWG

TYPICAL ROCKBORE FOR FRACTURED ROCK (PLAN) ENVIRONMENTAL-SW

ORIGINAL SCALE SCALE: N.T.S. DRAWING SET SHEET GD07 DRAWING No.

1 OF 1

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Auckland Council

GD07_02

NOTES: 1. HOT DIP GALVANISE WHOLE CAGE AND SLEEVE AFTER FABRICATION. (APPROXIMATE WEIGHT OF WHOLE CAGE 16 TO 2. RETROFIT TO EXISTING ROCKBORE: CAGE HEIGHT = MANHOLE - FILTER CAGE DEPTH - 1.0m. MINIMUM CAGE HEIGHT TO BE 1.0m. 4 R10 VERTICAL BARS CONCRETE BASE 400 400 CAGE 3D VIEW - EXPANDED METAL FILTER CAGE SIZE 12mm x 6mm EXPANDED METAL FILTER CAGE SIZE 12mm x - 5 R10 H00P 400mmØ - 150Ø BORE WELDED ON 4 R10 VERTICAL BARS R10 HOOP 400Ø WELDED ON 4 VERTICAL BARS FABRICATED SLEEVE EX 2mm MILD STEEL PLATE BY FIXING LUGS AND 12Ø EXPANSION ANCHORS (STAINLESS STEEL) SECTION B-B 400 4 R10 VERTICAL BARS EXPANDED METAL FILTER CAGE SIZE 12mm x 6mm VERTICAL BARS 300 WELDED JOINT BETWEEN HOOP AND VERTICAL BARS - 150Ø BORE FABRICATED SLEEVE EX 2mm MILD STEEL PLATE BY FIXING LUGS AND FABRICATED SLEEVE EX 2mm MILD 12Ø EXPANSION ANCHORS STEEL PLATE BY FIXING LUGS AND (STAINLESS STEEL) CONSTRUCT LEVEL CONCRETE -12Ø EXPANSION ANCHORS BASE (20MPa) PRIOR TO (STAINLESS STEEL) CAGE INSTALLATION SECTION C-C **ELEVATION**

SOAKAGE GUIDELINE DOCUMENT STANDARD DETAILS

REVISION: 0 REV DATE: 21/06/2021 CAD FILENAME: GD07_03.DWG AUCKLAND COUNCIL

TYPICAL ROCKBORE FILTER CAGE (DETAILS)

FOR FRACTURED ROCK

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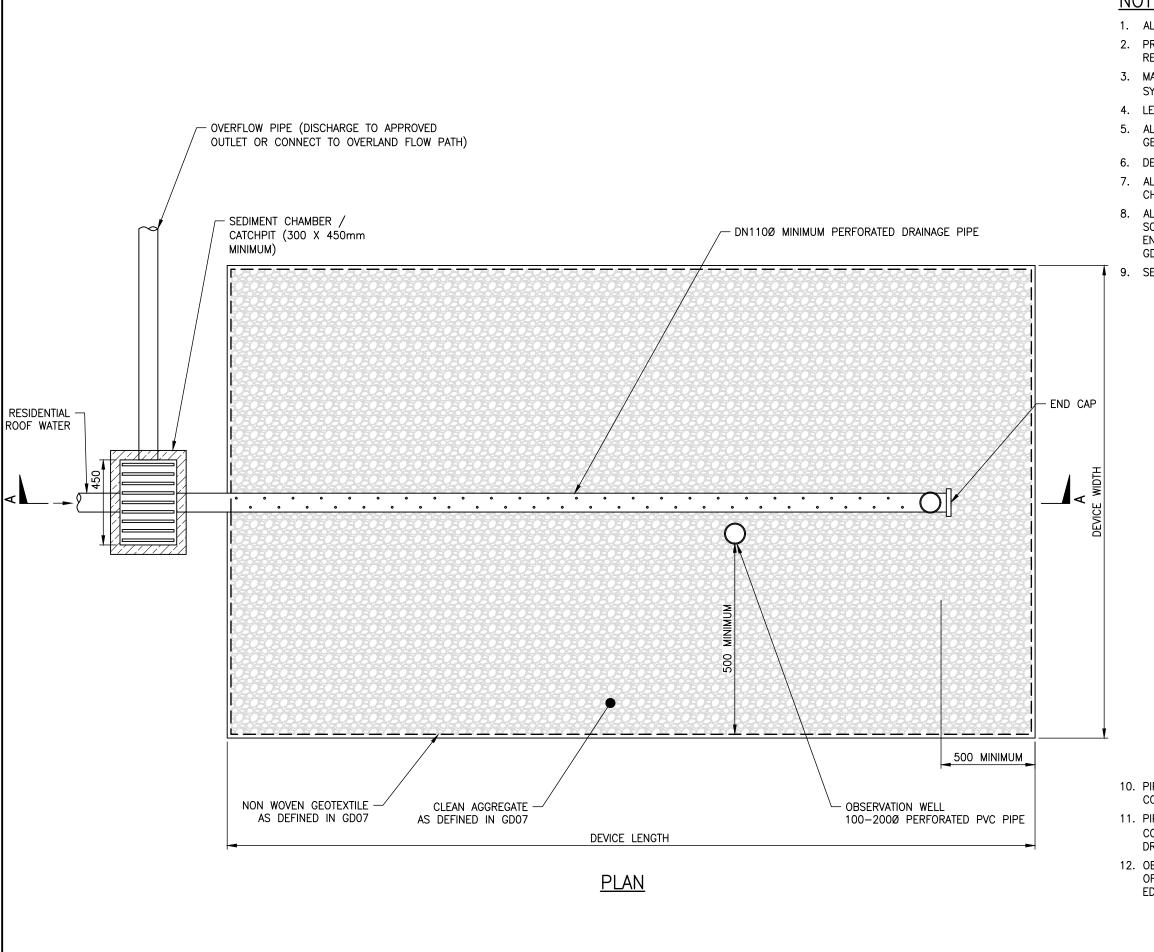
SCALE: N.T.S.

DRAWING SET SHEET

GD07 1 0F 1

DRAWING No. REV

GD07_03 0



- 1. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED).
- 2. PRIVATE SW CONNECTION PIPES LAID WITH < 600mm COVER REQUIRE CONCRETE PROTECTION.
- 3. MANHOLE INSTALLATION AND SW CONNECTION TO THE PUBLIC SYSTEM AS PER THE RELEVANT PARTS OF THE AT/AC CODE.
- 4. LEAF TRAP TO BE INSTALLED IN ROOF GUTTERS.
- 5. ALL AGGREGATE INTERFACES TO BE LINED WITH NON WOVEN
- 6. DEVICE SHALL BE SIZED AND SPECIFIED AS PER GD2020/007.
- 7. ALL RESIDENTIAL ROOF WATER SHALL DISCHARGE TO SEDIMENT CHAMBER CATCHPIT AND NOT DIRECTLY TO THE DEVICE.
- 8. ALL RUNOFF FROM ROADS, CAR PARKS OR OTHER CONTAMINANT SOURCES MUST INCLUDE PRE-TREATMENT OF RUNOFF PRIOR TO ENTERING STORMWATER SOAKPIT. REFER TO GD07 AND DRAWING GD07_11 FOR PRE-TREATMENT OPTIONS AND EXAMPLES.
- 9. SETBACK REQUIREMENTS

BUILDINGS AND PROPERTY BOUNDARIES:

- A SETBACK DISTANCE OF 3m IS RECOMMENDED FOR BUILDINGS AND PROPERTY BOUNDARIES. SPECIFIC GEOTECHNICAL DESIGN WILL BE REQUIRED WHERE THE DEVICE MAY AFFECT ADJACENT STRUCTURES (SUBJECT TO COUNCIL APPROVAL).
- WHERE THIS IS NOT PRACTICALLY POSSIBLE A SITE-SPECIFIC GEOTECHNICAL DESIGN MUST BE COMPLETED TAKING INTO ACCOUNT THE EFFECTS OF THE SOAKAGE DEVICE ON BUILDING FOUNDATIONS AND POTENTIAL FOR FLOODING OF NEIGHBOURING PROPERTIES. THIS MUST BE DONE BY A CHARTERED GEOTECHNICAL ENGINEER OR A PROFESSIONAL ENGINEERING GEOLOGIST.
- DEVICES SHALL NOT BE PLACED BELOW BUILDINGS AND BUILDINGS SHALL NOT BE BUILT OVER SOAKAGE DEVICES.

RETAINING WALLS:

- FOR WALLS < 2m HIGH:
- •1. THE SETBACK MUST NOT BE LESS THAN THE HEIGHT OF THE RETAINING WALL + 1.5m.
- •2. WHERE THE SOAKAGE DEVICE IS LESS THAN 10m UP-SLOPE OF THE WALL, THEN THE WALL MUST HAVE BEEN DESIGNED TO TAKE FULL WATER LOADING AND THE BASE OF THE SOAKAGE DEVICE SHOULD, WHERE POSSIBLE, BE AT AN ELEVATION BELOW THE TOE OF THE WALL.
- FOR WALLS > 2m HIGH WITHIN 10m OF A SOAKAGE DEVICE, A SITE-SPECIFIC DESIGN MUST BE CARRIED OUT BY A GEOTECHNICAL ENGINEER. CONSIDERING RELEVANT GEOTECHNICAL ISSUES AND CUT-OFF DRAINAGE OF THE RETAINING WALL.

UNDERGROUND INFRASTRUCTURE:

- A SETBACK DISTANCE OF 2m IS REQUIRED FROM ANY EXISTING WATER AND WASTEWATER PIPES.
- 10. PIPE EMBEDMENT DETAILS FOR PRIVATE DRAINAGE SHALL COMPLY WITH BUILDING CODE AS PER NZS 7643.
- 11. PIPE EMBEDMENT DETAILS FOR THE PUBLIC DRAINAGE SHALL COMPLY WITH STORMWATER CODE OF PRACTICE (SWCOP)
- 12. OBSERVATION WELL LOCATION IS INDICATIVE ONLY. MINIMUM OFFSET OF 500mm REQUIRED BETWEEN WELL EDGE AND DEVICE

SOAKAGE GUIDELINE DOCUMENT STANDARD DETAILS

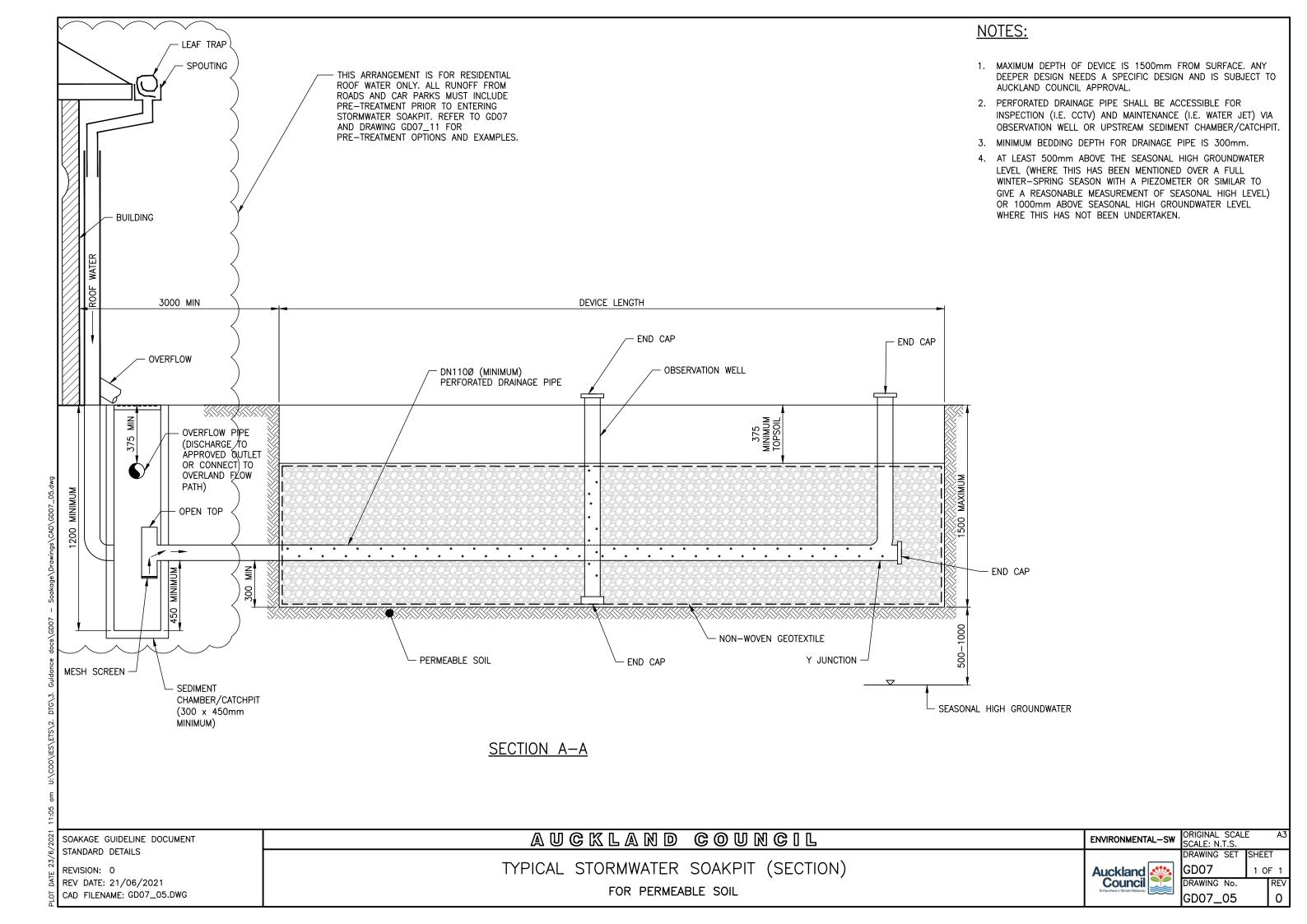
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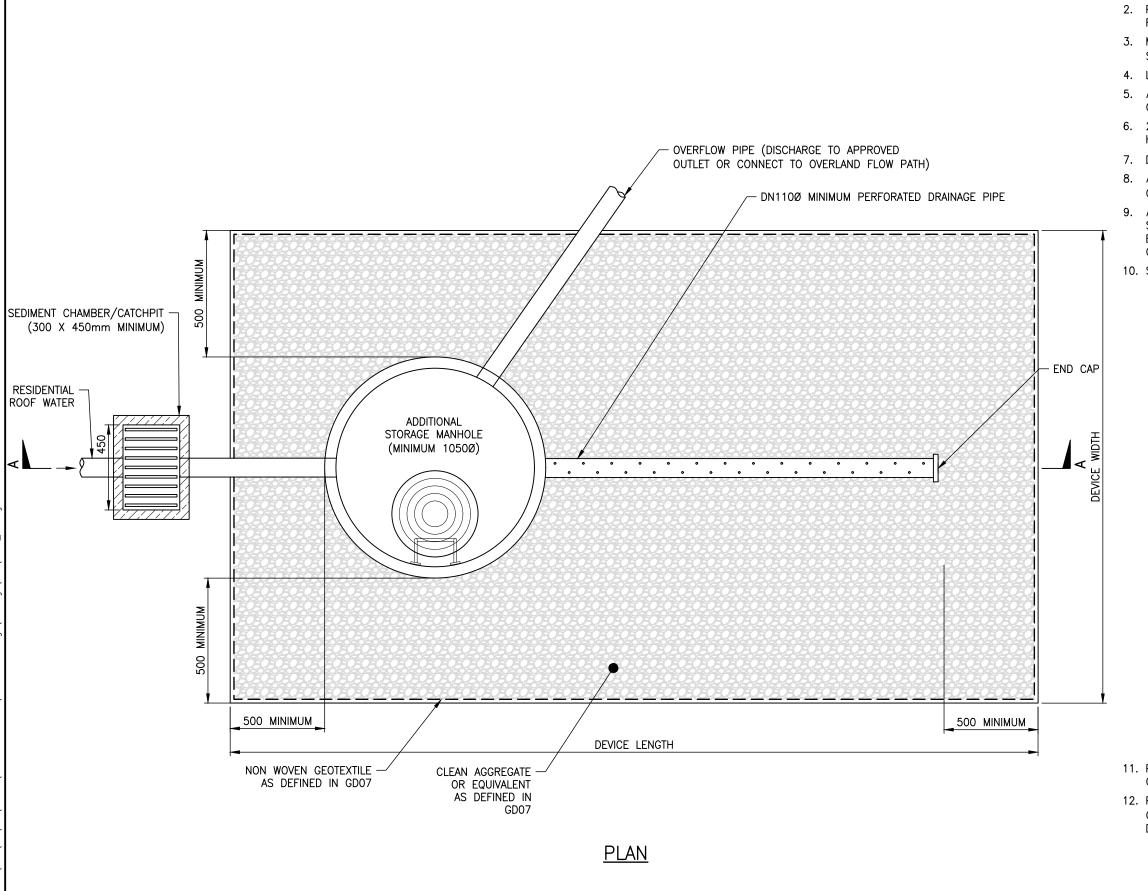
REV DATE: 21/06/2021 CAD FILENAME: GD07_04.DWG AUCKLAND COUNCIL

TYPICAL STORMWATER SOAKPIT (PLAN) FOR PERMEABLE SOIL

Auckland ** Council

ENVIRONMENTAL-SW SCALE: N.T.S. DRAWING SET SHEET GD07 1 OF 1 DRAWING No. REV GD07_04 0





- 1. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED).
- 2. PRIVATE SW CONNECTION PIPES LAID WITH < 600mm COVER REQUIRE CONCRETE PROTECTION.
- 3. MANHOLE INSTALLATION AND SW CONNECTION TO THE PUBLIC SYSTEM AS PER THE RELEVANT PARTS OF THE AT/AC CODE.
- 4. LEAF TRAP TO BE INSTALLED IN ROOF GUTTERS.
- 5. ALL AGGREGATE INTERFACES TO BE LINED WITH NON WOVEN
- 6. 20Ø HOLES IN MH CHAMBER TO BE DRILLED AT 300mm HORIZONTAL SPACING AND 150mm VERTICAL SPACING.
- 7. DEVICE SHALL BE SIZED AND SPECIFIED AS PER GD2020/007.
- 8. ALL RESIDENTIAL ROOF WATER SHALL DISCHARGE TO SEDIMENT CHAMBER/CATCHPIT AND NOT DIRECTLY TO THE DEVICE.
- 9. ALL RUNOFF FROM ROADS, CAR PARKS OR OTHER CONTAMINANT SOURCES MUST INCLUDE PRE-TREATMENT OF RUNOFF PRIOR TO ENTERING STORMWATER SOAKPIT. REFER TO GD07 AND DRAWING GD07_11 FOR PRE-TREATMENT OPTIONS AND EXAMPLES.
- 10. SETBACK REQUIREMENTS

BUILDINGS AND PROPERTY BOUNDARIES:

- A SETBACK DISTANCE OF 3m IS RECOMMENDED FOR BUILDINGS AND PROPERTY BOUNDARIES. SPECIFIC GEOTECHNICAL DESIGN WILL BE REQUIRED WHERE THE DEVICE MAY AFFECT ADJACENT STRUCTURES (SUBJECT TO COUNCIL APPROVAL).
- WHERE THIS IS NOT PRACTICALLY POSSIBLE A SITE-SPECIFIC GEOTECHNICAL DESIGN MUST BE COMPLETED TAKING INTO ACCOUNT THE EFFECTS OF THE SOAKAGE DEVICE ON BUILDING FOUNDATIONS AND POTENTIAL FOR FLOODING OF NEIGHBOURING PROPERTIES. THIS MUST BE DONE BY A CHARTERED GEOTECHNICAL ENGINEER OR A PROFESSIONAL ENGINEERING GEOLOGIST.
- DEVICES SHALL NOT BE PLACED BELOW BUILDINGS AND BUILDINGS SHALL NOT BE BUILT OVER SOAKAGE DEVICES.

RETAINING WALLS:

- FOR WALLS < 2m HIGH:
- •1. THE SETBACK MUST NOT BE LESS THAN THE HEIGHT OF THE RETAINING WALL + 1.5m
- •2. WHERE THE SOAKAGE DEVICE IS LESS THAN 10m UP-SLOPE OF THE WALL, THEN THE WALL MUST HAVE BEEN DESIGNED TO TAKE FULL WATER LOADING AND THE BASE OF THE SOAKAGE DEVICE SHOULD, WHERE POSSIBLE, BE AT AN ELEVATION BELOW THE TOE OF THE WALL.
- FOR WALLS > 2m, A SITE SPECIFIC DESIGN MUST BE CARRIED OUT BY A GEOTECHNICAL ENGINEER, CONSIDERING RELEVANT GEOTECHNICAL ISSUES AND CUT-OFF DRAINAGE OF THE RETAINING WALL.

UNDERGROUND INFRASTRUCTURE:

- A SETBACK DISTANCE OF 2m IS REQUIRED FROM ANY EXISTING WATER AND WASTEWATER PIPES.
- 11. PIPE EMBEDMENT DETAILS FOR PRIVATE DRAINAGE SHALL COMPLY WITH BUILDING CODE AS PER NZS 7643.
- 12. PIPE EMBEDMENT DETAILS FOR THE PUBLIC DRAINAGE SHALL COMPLY WITH STORMWATER CODE OF PRACTICE (SWCOP) DRAWINGS.

SOAKAGE GUIDELINE DOCUMENT STANDARD DETAILS

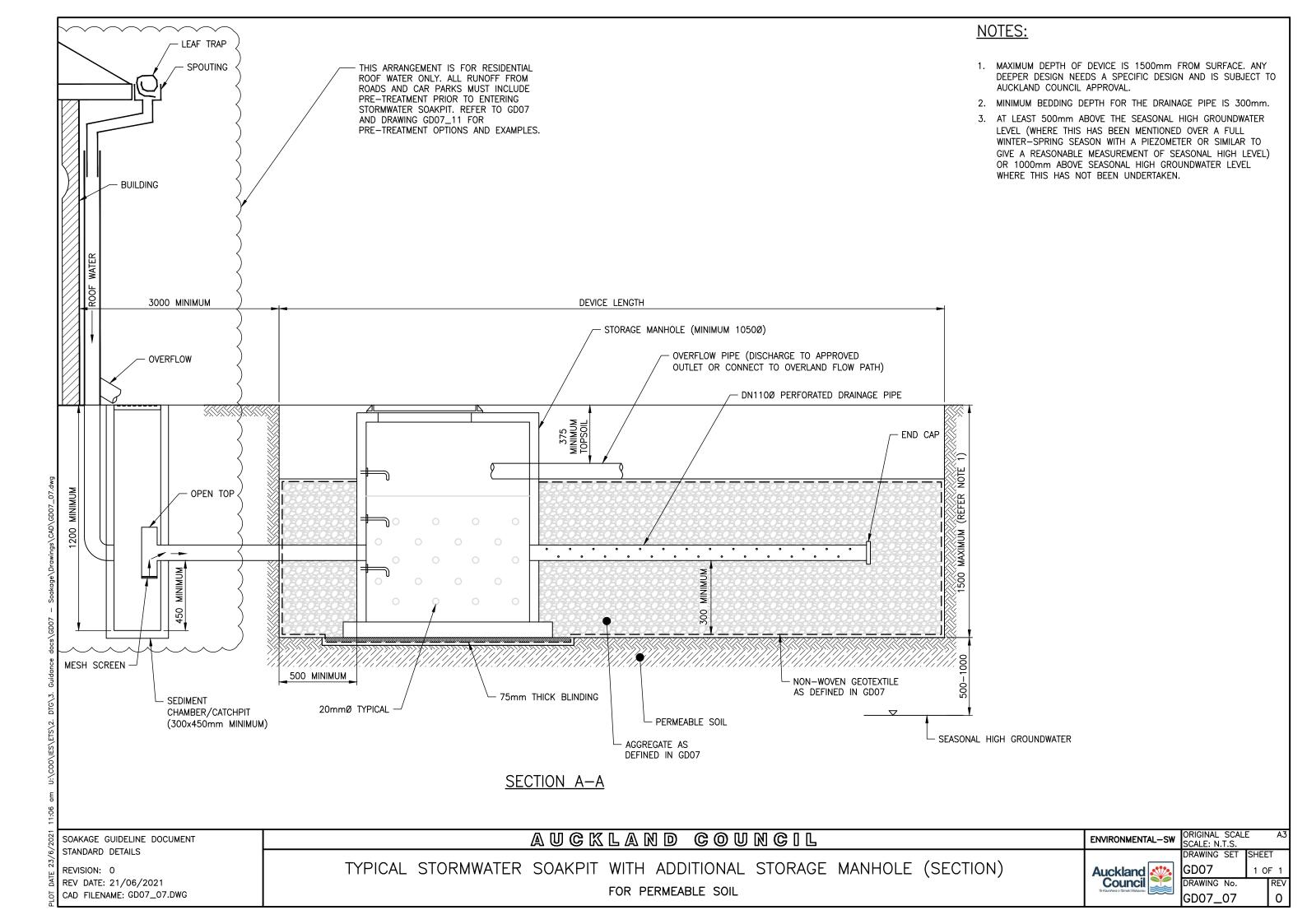
REVISION: 0

REV DATE: 21/06/2021 CAD FILENAME: GD07_06.DWG AUCKLAND COUNCIL

TYPICAL STORMWATER SOAKPIT WITH STORAGE MANHOLE (PLAN) FOR PERMEABLE SOIL

Auckland ** Council

ENVIRONMENTAL-SW SCALE: N.T.S. DRAWING SET SHEET GD07 1 OF 1 DRAWING No. REV GD07_06 0



OVERFLOW PIPE (DISCHARGE TO APPROVED OUTLET OR CONNECT TO OVERLAND FLOW PATH) SEDIMENT CHAMBER/CATCHPIT (300 X 450mm MINIMUM) - DN110Ø PERFORATED DRAINAGE PIPE RESIDENTIAL -ROOF WATER END CAP 1500 MINIMUM 500 MINIMUM DEVICE LENGTH NON-WOVEN GEOTEXTILE OBSERVATION WELL CLEAN AGGREGATE AS DEFINED IN GD07 100-200Ø PERFORATED PVC PIPE AS DEFINED IN GD07 PLAN

NOTES:

- 1. ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED).
- PRIVATE SW CONNECTION PIPES LAID WITH < 600mm COVER REQUIRE CONCRETE PROTECTION.
- 3. MANHOLE INSTALLATION AND SW CONNECTION TO THE PUBLIC SYSTEM AS PER THE RELEVANT PARTS OF THE AT/AC CODE.
- 4. LEAF TRAP TO BE INSTALLED IN ROOF GUTTERS.
- ALL AGGREGATE INTERFACES TO BE LINED WITH NON WOVEN
- 6. DEVICE SHALL BE SIZED AND SPECIFIED AS PER GD2020/007.
- 7. ALL RESIDENTIAL ROOF WATER SHALL DISCHARGE TO SEDIMENT CHAMBER/CATCHPIT AND NOT DIRECTLY TO THE DEVICE.
- 8. ALL RUNOFF FROM ROADS, CAR PARKS OR OTHER CONTAMINANT SOURCES MUST INCLUDE PRE-TREATMENT OF RUNOFF PRIOR TO ENTERING GROUNDWATER RECHARGE PIT. REFER TO GD07 AND DRAWING GD07_11 FOR PRE-TREATMENT OPTIONS AND EXAMPLES.
- 9. SETBACK REQUIREMENTS

BUILDINGS AND PROPERTY BOUNDARIES:

- A SETBACK DISTANCE OF 3m IS RECOMMENDED FOR BUILDINGS AND PROPERTY BOUNDARIES. SPECIFIC GEOTECHNICAL DESIGN WILL BE REQUIRED WHERE THE DEVICE MAY AFFECT ADJACENT STRUCTURES (SUBJECT TO COUNCIL APPROVAL).
- WHERE THIS IS NOT PRACTICALLY POSSIBLE A SITE-SPECIFIC GEOTECHNICAL DESIGN MUST BE COMPLETED TAKING INTO ACCOUNT THE EFFECTS OF THE SOAKAGE DEVICE ON BUILDING FOUNDATIONS AND POTENTIAL FOR FLOODING OF NEIGHBOURING PROPERTIES. THIS MUST BE DONE BY A CHARTERED GEOTECHNICAL ENGINEER OR A PROFESSIONAL ENGINEERING GEOLOGIST.
- DEVICES SHALL NOT BE PLACED BELOW BUILDINGS AND BUILDINGS SHALL NOT BE BUILT OVER SOAKAGE DEVICES.

RETAINING WALLS:

- FOR WALLS < 2m HIGH, THE SETBACK MUST NOT BE LESS THAN THE HEIGHT OF THE RETAINING WALL + 1.5m AND WHERE THE SOAKAGE DEVICE IS UP-SLOPE OF THE WALL THEN THE WALL MUST HAVE BEEN DESIGNED TO TAKE FULL WATER LOADING.
- FOR WALLS > 2m, A SITE-SPECIFIC DESIGN MUST BE CARRIED OUT BY A GEOTECHNICAL ENGINEER, CONSIDERING RELEVANT GEOTECHNICAL ISSUES AND CUT-OFF DRAINAGE OF THE RETAINING WALL.

UNDERGROUND INFRASTRUCTURE:

- A SETBACK DISTANCE OF 2m IS REQUIRED FROM ANY EXISTING WATER AND WASTEWATER PIPES.
- PIPE EMBEDMENT DETAILS FOR PRIVATE DRAINAGE SHALL COMPLY WITH BUILDING CODE AS PER NZS 7643.
- 11. PIPE EMBEDMENT DETAILS FOR THE PUBLIC DRAINAGE SHALL COMPLY WITH STORMWATER CODE OF PRACTICE (SWCOP)

ENVIRONMENTAL-SW

SCALE: N.T.S. DRAWING SET SHEET GD07 1 OF 1 DRAWING No.

GD07_08

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TYPICAL GROUNDWATER RECHARGE SOAKPIT (PLAN) FOR PEAT SOIL

COUNCIL

AUCKLAND

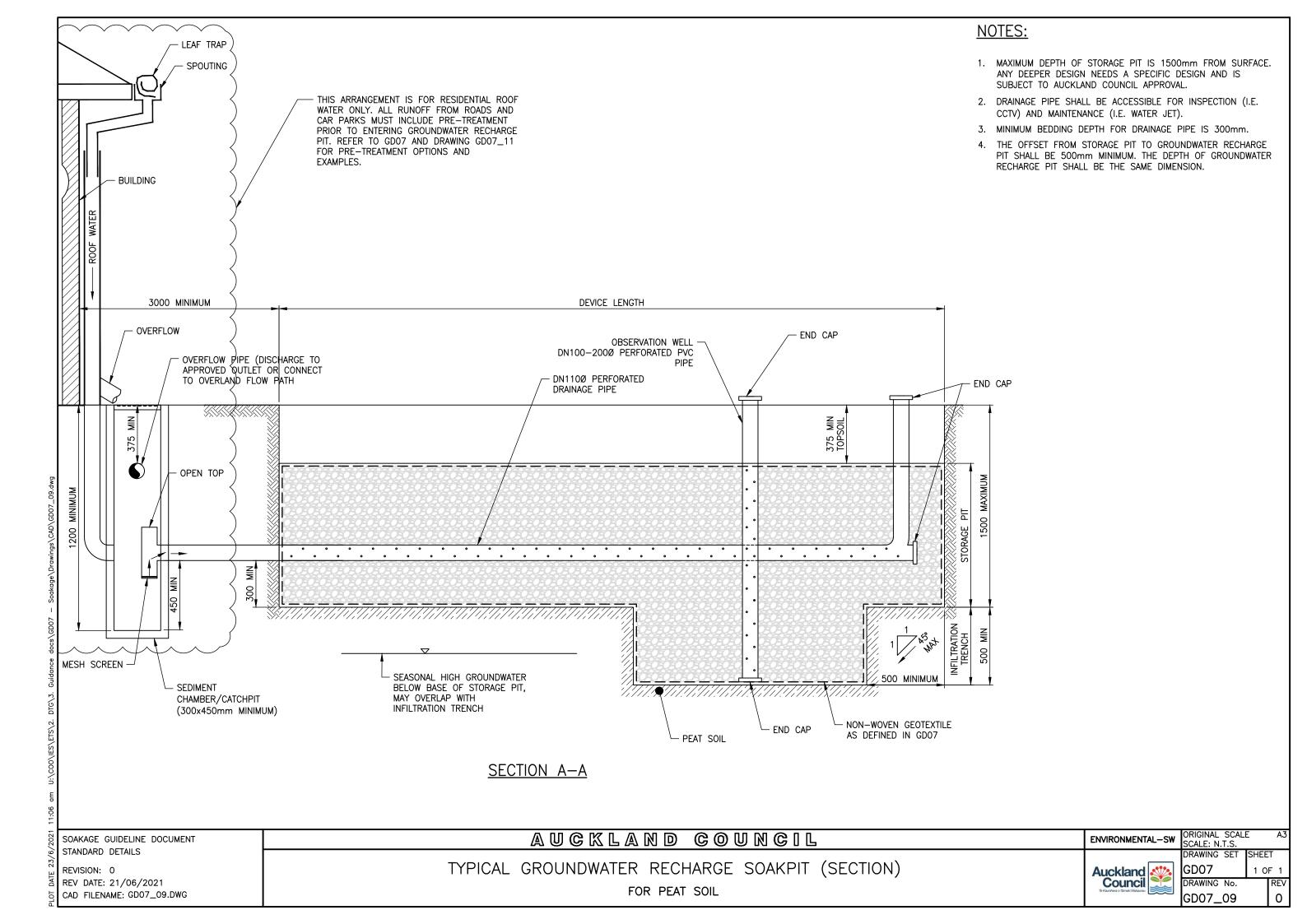
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STANDARD DETAILS

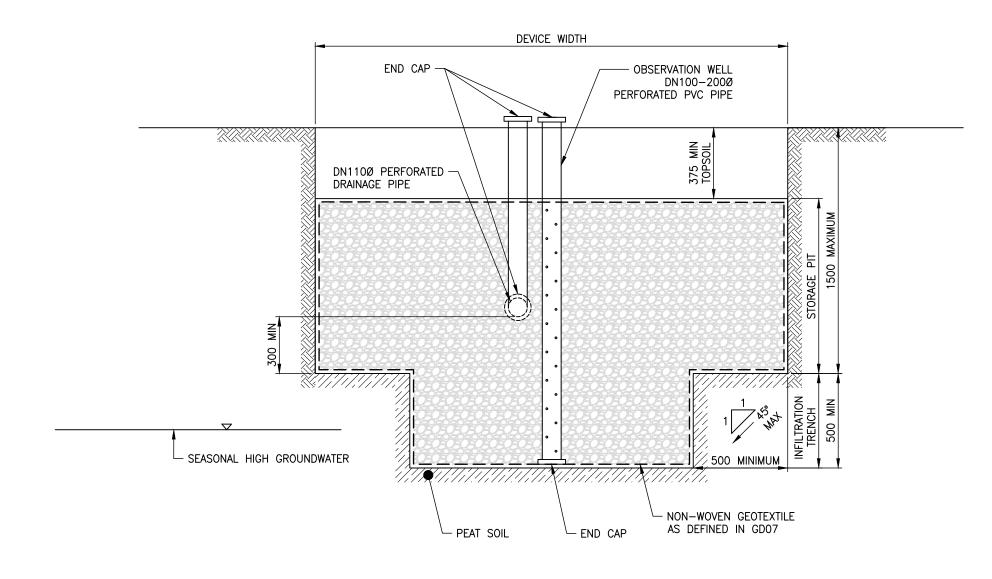
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SOAKAGE GUIDELINE DOCUMENT

Auckland ** Council

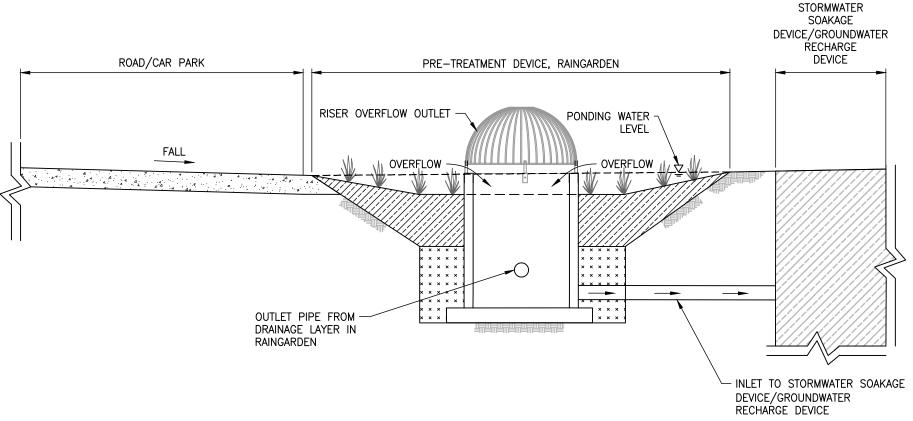


1. THE OFFSET FROM STORAGE PIT TO GROUNDWATER RECHARGE PIT SHALL BE 500mm MINIMUM. THE DEPTH OF GROUNDWATER RECHARGE PIT SHALL BE THE SAME DIMENSION.

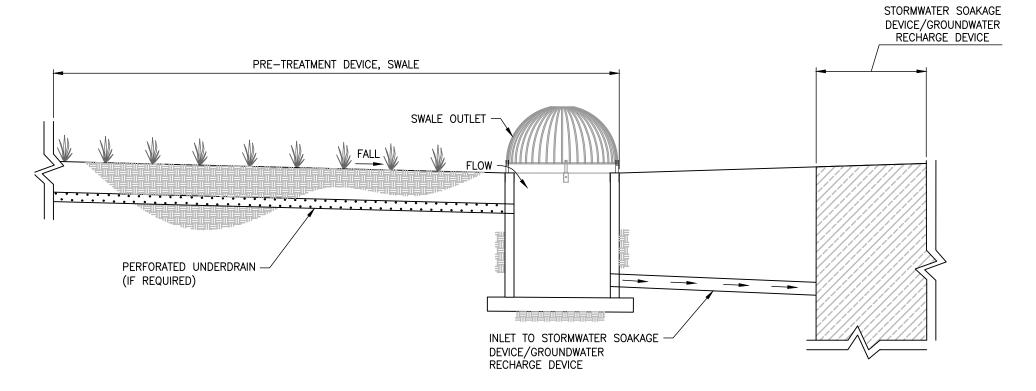


SECTION B-B

ORIGINAL SCALE SCALE: N.T.S. AUCKLAND COUNCIL SOAKAGE GUIDELINE DOCUMENT ENVIRONMENTAL-SW STANDARD DETAILS DRAWING SET SHEET TYPICAL GROUNDWATER RECHARGE SOAKPIT (SECTION) Auckland Council
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EXAMPLE OF PRE-TREATMENT WITH RAINGARDEN



EXAMPLE OF PRE-TREATMENT WITH SWALE

ORIGINAL SCALE SCALE: N.T.S. AUCKLAND COUNCIL SOAKAGE GUIDELINE DOCUMENT ENVIRONMENTAL-SW STANDARD DETAILS DRAWING SET EXAMPLES OF PRE-TREATMENT DEVICES GD07 Auckland Council REVISION: 0 REV DATE: 21/06/2021 DRAWING No. FOR HIGH CONTAMINANT GENERATING SOURCES (ROADS, CAR PARKS) CAD FILENAME: GD07_11.DWG GD07_11

NOTES:

SPECIFIED AS PER GD01.

1. STORMWATER TREATMENT DEVICES SHALL BE SIZED AND

2. REFER TO GD07 FOR OTHER PRE-TREATMENT OPTIONS.