

NOT FOR CONSTRUCTION
PLAN CHANGE ONLY



KEY

Proposed Lot Boundaries
Abuttal Boundaries
Edge of Kerb
Original Major Contour (1.0m)
Original Minor Contour (0.2m)

Proposed Dwelling

Extent of Earthwork
Silt Fence
Clean Water Bund

Existing Dwellings/Units

- NOTES**
- 1) All works to comply with local authority Engineering Quality Standards latest edition.
 - 2) Vertical datum is in terms of Auckland Vertical Datum 1946.
 - 3) Horizontal Datum is in terms of Mt Eden 2000
 - 4) Underground Telecom cables, Fibre Optic Cables, Power cables, Gas pipes and Water Pipes are not necessarily shown. Contractor to verify their positions within the road and on private property prior to commencing work.
 - 5) All fill is to be clean fill material free of organics and is to be placed to class A compaction standards and certified by a geotechnical engineer.
 - 6) It is the contractors responsibility to arrange to have all fill areas inspected by the geotechnical engineer prior to placing fill and further inspections as required by the geotechnical engineer for the purpose of carrying out compaction testing.
 - 7) All setout of the works is the responsibility of the contractor.
 - 8) Hardfill backfill to be placed under all driveways and accessways at the direction of the engineer.
 - 9) Topsoil in Berms is to rotary hoed topsoil from site or as otherwise approved material, 150mm thick and free of stones, debris etc.
 - 10) Telecom, Power and Water Services are shown as a guide only and locations should be verified by the appropriate network authority prior to installation of ducting.
 - 11) Contractor is to arrange appropriate traffic permits and is responsible for maintaining onsite traffic safety.
 - 12) This document shall be used only for the purpose for which it is supplied. No reproduction, copying, reuse, sale, hire, loan, or gift of this document directly or indirectly is permitted without the prior written consent of Birch Surveyors Limited.

EXISTING DWELLING/SHED TO BE
REMOVED/DEMOLISHED

C200

Original Scale cm 0 1 2 5 10

2A Wesley Street
Pukekohe 2120
PO Box 475
Pukekohe 2340

Planning
Surveying
Engineering

LOCAL AUTHORITY
AUCKLAND COUNCIL
AUCKLAND UNITARY PLAN
FUTURE URBAN ZONE

ACTIVITY
-

COMPRISED IN
NA84D/710, NA84D/711, NA103A/604

TOTAL AREA
10.130 ha, 8.517 ha, 0.5378 ha

REGISTERED OWNERS
STEPHEN SMITH
DIANNE SMITH

PROJECT NAME
**SMITH
70/70A/70B LISLE FARM DRIVE
PUKEKOHE**

Surveyed	BSL	Date	04/19
Designed	S.HANG	Date	06/23
Drawn	S.HANG	Date	06/23
Approved	K.BOSGRA	Date	-

Project No.	4553		
Scale	HZ: 1:2000 @ A3		
REV.	BY	DATE	COMMENT
A	SH	06/23	INITIAL ISSUE
B	SH	11/24	CLAUSE 23

TITLE
**EARTHWORK DRAFT CONCEPT PLAN OF
LOT 1 DP 143272, LOT 2 DP 143272, LOT 1 DP 169148**

Drawing Name
EP 4553 PPC G.dwg /EW

SUBJECT TO FINAL SURVEY

Rev.
B

NOT FOR CONSTRUCTION
PLAN CHANGE ONLY

WILLIAM ANDREW ROAD

(SEALED & IN USE)

LISLE FARM DRIVE (SEALED & IN USE)



KEY

Proposed Lot Boundaries	
Abuttal Boundaries	
Edge of Kerb	
Design Major Contour (1.0m)	
Design Minor Contour (0.2m)	
Proposed Dwelling	
Extent of Earthwork	
Prop. Retaining Wall (H)	

CUT/FILL SUMMARY (Approximately)
EARTHWORK DISTURBANCE AREA = $125,000\text{m}^2$
TOTAL CUT VOLUME = $263,750\text{m}^3$
CUT VOLUME FOR TOPSOIL = $18,750\text{m}^3$ (150mm)
CUT VOLUME (excl. Topsoil) = $245,000\text{m}^3$
FILL VOLUME = $201,600\text{m}^3$ (incl. 20% RATIO)

MAXIMUM CUT DEPTH: 9,000mm
MAXIMUM FILL DEPTH: 12,500mm

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DEPTH KEY

FILL	2.00 +	
	1.50 - 2.00	
	1.00 - 1.50	
	0.50 - 1.00	
	0.00 - 0.50	
CUT	0.00	
	0.00 - 0.50	
	0.50 - 1.00	
	1.00 - 1.50	
	1.50 - 2.00	
	+ 2.00	

12.5m FILL

6.5m CUT

9.0m CUT

POTENTIAL
BRIDGE

9.0m CUT

8.0m FILL

9.5m FILL

7.0m CUT

5.6m CUT

9.0m CUT

3.8m FILL

2.7m CUT

5.2m FILL

4.0m CUT

8.5m FILL

POTENTIAL
BRIDGE

4.7m FILL

C201

Original Scale cm 0 1 2 5 10



Birch Planning
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Engineering
LAND DEVELOPMENT CONSULTANTS
2A Wesley Street
Pukekohe 2120
PO Box 475
Pukekohe 2340
Ph: 09 237 1111
pukekohe@bslnz.com
www.birchsveyors.co.nz

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PLANNING MAP	AUCKLAND UNITARY PLAN
ZONING	FUTURE URBAN ZONE
ACTIVITY	-
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REGISTERED OWNERS	STEPHEN SMITH DIANNE SMITH

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PUKEKOHE

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REV.	BY DATE COMMENT
A	SH 06/23 INITIAL ISSUE
B	SH 11/24 CLAUSE 23

TITLE	EARTHWORK DRAFT CONCEPT PLAN OF LOT 1 DP 143272, LOT 2 DP 143272, LOT 1 DP 169148
Drawing Name	EP 4553 PPC G.dwg /EW (2)
SUBJECT TO FINAL SURVEY	Rev. B

SILT FENCE:
APPLICATION

- ON LOW GRADIENT SITES OR FOR CONFINED AREAS WHERE THE CONTRIBUTING CATCHMENT IS SMALL, SUCH AS SHORT STEEP BATTER FILLS AND AROUND WATERCOURSES.
- TO DELINEATE THE LIMIT OF DISTURBANCE ON AN EARTHWORKS SITE SUCH AS RIPARIAN AREAS OR BUSH RESERVES.
- TO STORE RUNOFF BEHIND THE SILT FENCE WITHOUT DAMAGING THE FENCE OR THE SUBMERGED AREA BEHIND THE FENCE.
- DO NOT INSTALL SILT FENCES ACROSS WATERCOURSES OR IN AREAS OF CONCENTRATED FLOWS.

DESIGN

- ENSURE THE SILT FENCE HEIGHT IS A MINIMUM OF 600mm ABOVE AND 200mm BELOW GROUND LEVEL.
- PLACE SUPPORTING POSTS/WARATAHS FOR SILT FENCES 2m-4m WITH SUPPORT PROVIDED BY TENSIONED WIRE (2.5mm HT) ALONG THE TOP OF THE SILT FENCE. WHERE A STRONG WOVEN FABRIC IS USED IN CONJUNCTION WITH A WIRE SUPPORT, THE DISTANCE BETWEEN POSTS CAN BE EXTENDED UP TO 4m. DOUBLE THE SILT FENCE FABRIC OVER AND FASTEN TO THE WIRE AND POSTS WITH SILT FENCE CLIPS AT 500mm SPACINGS. ENSURE SUPPORTING POSTS ARE EMBEDDED A MINIMUM OF 400mm INTO THE GROUND.
- ALWAYS INSTALL SILT FENCES ALONG THE CONTOUR (AT A BREAK IN SLOPE). WHERE THIS IS NOT POSSIBLE OR WHERE THERE ARE LONG SECTIONS OF SILT FENCE, INSTALL SHORT SILT FENCE RETURNS PROJECTING UP SLOPE TO MINIMISE CONCENTRATION OF FLOWS. SILT FENCE RETURNS ARE A MINIMUM 2m IN LENGTH, CAN INCORPORATE A TIE BACK AND ARE GENERALLY CONSTRUCTED BY CONTINUING THE SILT FENCE AROUND THE RETURN AND DOUBLING BACK, ELIMINATING JOINS.
- JOIN LENGTHS OF SILT FENCE BY DOUBLING OVER FABRIC ENDS AROUND A WARRATAH, WOODEN POST OR BATTEN OR BY STAPLING THE FABRIC ENDS TO A BATTEN AND BUTTING THE TWO BATTENS TOGETHER OR BY OVERLAPPING AT LEAST 2m.
- MAXIMUM SLOPE LENGTHS, SPACING OF RETURNS AND ANGLES FOR SILT FENCES ARE SHOWN IN THE TABLE BELOW.
- INSTALL SILT FENCE RETURNS AT EITHER END OF THE SILT FENCE PROJECTING UPSLOPE TO A SUFFICIENT HEIGHT TO PREVENT OUTFLANKING.
- WHERE IMPOUNDED FLOW MAY OVERTOP THE SILT FENCE, CROSSING NATURAL DEPRESSIONS OR LOW POINTS, MAKE PROVISION FOR A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE.

MAINTENANCE

- INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY NECESSARY REPAIRS WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT.
- ANY AREAS OF COLLAPSE, DECOMPOSITION OR INEFFECTIVENESS NEED TO BE IMMEDIATELY REPLACED.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO CONTINUE TO ALLOW FOR ADEQUATE SEDIMENT STORAGE AND REDUCE PRESSURE ON THE SILT FENCE. ENSURE THAT THE SEDIMENT IS REMOVED TO A SECURE AREA.
- DO NOT REMOVE SILT FENCE MATERIALS AND SEDIMENT DEPOSITION UNTIL THE CATCHMENT AREA HAS BEEN APPROPRIATELY STABILISED. STABILISE THE AREA OF THE REMOVED SILT FENCE.

SUPER SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)	SUPER SILT FENCE LENGTH (m) (MAXIMUM)
0-10%	UNLIMITED	60	UNLIMITED
10-20%	60	50	450
20-33%	30	40	300
33-50%	30	30	150
>50%	15	20	75

SUPER SILT FENCE:
APPLICATION

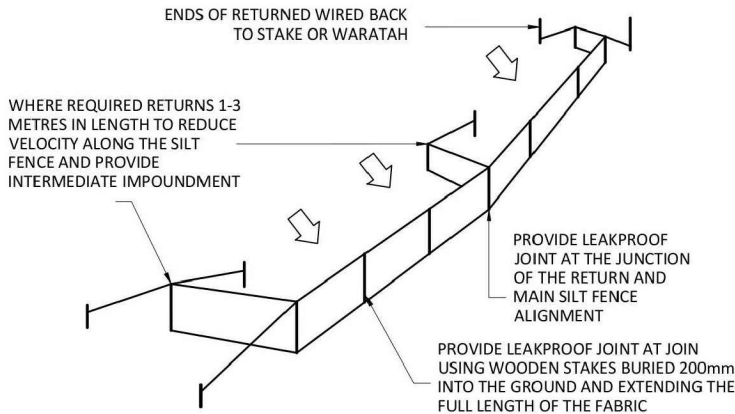
- PROVIDES A BARRIER THAT CAN COLLECT AND HOLD DEBRIS AND SOIL, PREVENTING THE MATERIAL FROM ENTERING CRITICAL AREAS, WATERCOURSES AND STREETS.
- CAN BE USED WHERE THE INSTALLATION OF AN EARTH OR TOPSOIL BUND WOULD DESTROY SENSITIVE AREAS SUCH AS BUSH AND WETLANDS.
- SHOULD BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE. NO SECTION OF THE FENCE SHOULD EXCEED A GRADE OF 5% FOR A DISTANCE OF MORE THAN 15m.

DESIGN

- ENSURE THE SILT FENCE HEIGHT IS A MINIMUM OF 600mm ABOVE AND 200mm BELOW GROUND LEVEL.
- WHEN CONSIDERING SUPER SILT FENCE INSTALLATION FOR LARGER CATCHMENTS (GREATER THAN 0.5ha) AS IN THE TABLE BELOW, CAREFULLY CONSIDER THE SPECIFIC SITE CONDITIONS AND OTHER ALTERNATIVE CONTROL MEASURES AVAILABLE. BASE THE LENGTH OF THE SUPER SILT FENCE ON THE LIMITS SHOWN IN THE TABLE LEFT.
- ALWAYS INSTALL SILT FENCES ALONG THE CONTOUR (AT A BREAK IN SLOPE). WHERE THIS IS NOT POSSIBLE OR WHERE THERE ARE LONG SECTIONS OF SILT FENCE, INSTALL SHORT SILT FENCE RETURNS PROJECTING UP SLOPE TO MINIMISE CONCENTRATION OF FLOWS. SILT FENCE RETURNS ARE A MINIMUM 2m IN LENGTH, CAN INCORPORATE A TIE BACK AND ARE GENERALLY CONSTRUCTED BY CONTINUING THE SILT FENCE AROUND THE RETURN AND DOUBLING BACK, ELIMINATING JOINS.
- JOIN LENGTHS OF SILT FENCE BY DOUBLING OVER FABRIC ENDS AROUND A WARRATAH, WOODEN POST OR BATTEN OR BY STAPLING THE FABRIC ENDS TO A BATTEN AND BUTTING THE TWO BATTENS TOGETHER OR BY OVERLAPPING AT LEAST 2m.
- LIMITS IMPOSED BY ULTRA VIOLET LIGHT AFFECT THE STABILITY OF THE FABRIC AND WILL DICTATE THE MAXIMUM PERIOD THAT THE SUPER SILT FENCE MAY BE USED.
- WHERE ENDS OF THE GEOTEXTILE FABRIC COME TOGETHER, OVERLAP, FOLD AND STAPLE THE FABRIC ENDS TO PREVENT SEDIMENT BYPASS.

MAINTENANCE

- INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY NECESSARY REPAIRS WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT.
- ANY AREAS OF COLLAPSE, DECOMPOSITION OR INEFFECTIVENESS NEED TO BE IMMEDIATELY REPLACED.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO CONTINUE TO ALLOW FOR ADEQUATE SEDIMENT STORAGE AND REDUCE PRESSURE ON THE SILT FENCE. ENSURE THAT THE SEDIMENT IS REMOVED TO A SECURE AREA.
- DO NOT REMOVE SILT FENCE MATERIALS AND SEDIMENT DEPOSITION UNTIL THE CATCHMENT AREA HAS BEEN APPROPRIATELY STABILISED. STABILISE THE AREA OF THE REMOVED SILT FENCE.

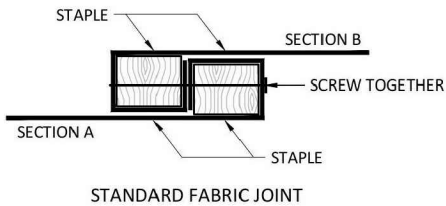


PERSPECTIVE VIEW

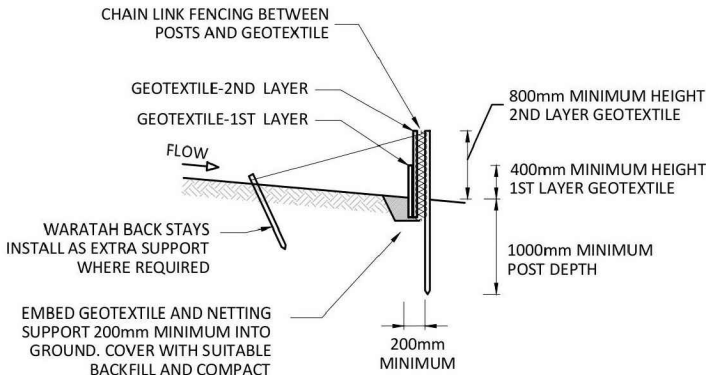
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)	SILT FENCE LENGTH (m) (MAXIMUM)
< 2%	UNLIMITED	N/A	UNLIMITED
2-10%	40	60	300
10-20%	30	50	230
20-33%	20	40	150
33-50%	15	30	75
>50%	6	20	40

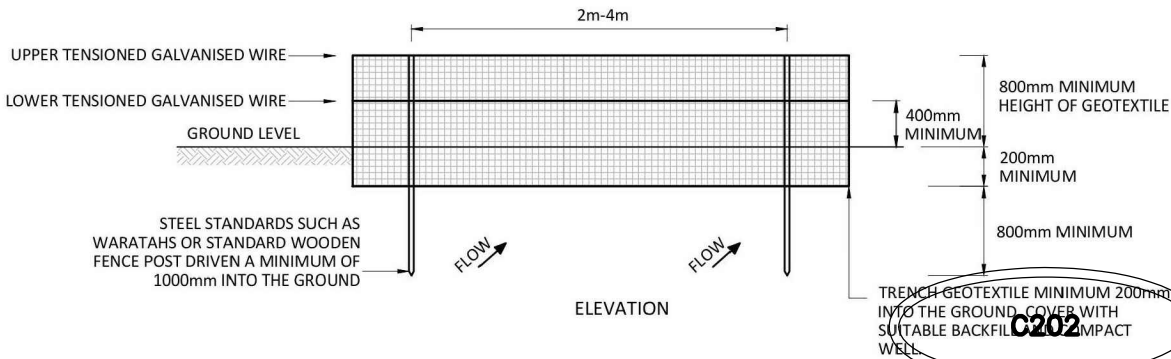
GRAB TENSILE STRENGTH: >440N (ASTM D4632)
TENSILE MODULUS: 0.140 pa (MINIMUM)
APPARENT OPENING SIZE: 0.1-0.5mm (ASTM D4751)



STANDARD FABRIC JOINT



CROSS SECTION



SUPER SILT FENCE CONSTRUCTION

Original Scale cm 0 1 2 5 10

SILT FENCE CONSTRUCTION



Birch Planning
Surveying
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2A Wesley Street
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PO Box 475
Pukekohe 2340

Ph: 09 237 1111
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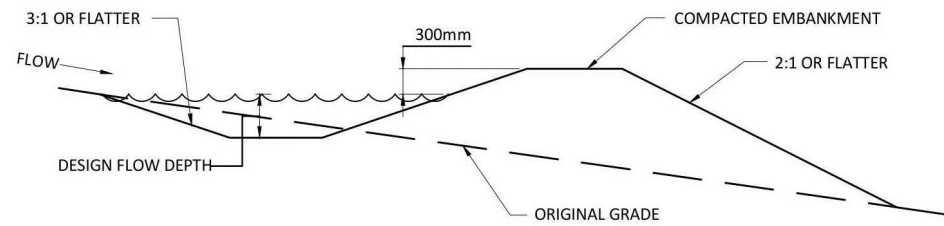
LOCAL AUTHORITY	AUCKLAND COUNCIL
PLANNING MAP	AUCKLAND UNITARY PLAN
ZONING	FUTURE URBAN ZONE
ACTIVITY	-
COMPRISED IN	NA84D/710, NA84D/711, NA103A/604
TOTAL AREA	10.130 ha, 8.517 ha, 0.5378 ha
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PROJECT NAME

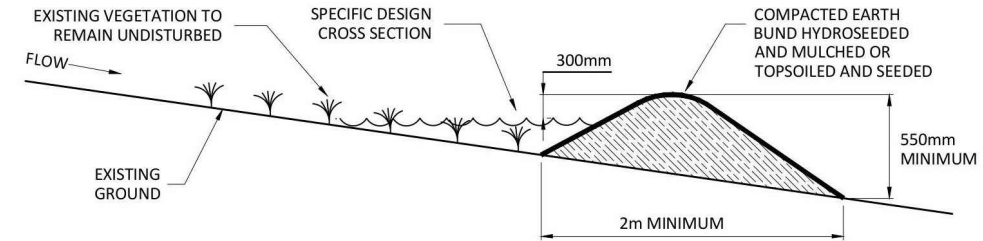
SMITH
70/70A/70B LISLE FARM DRIVE
PUKEKOHE

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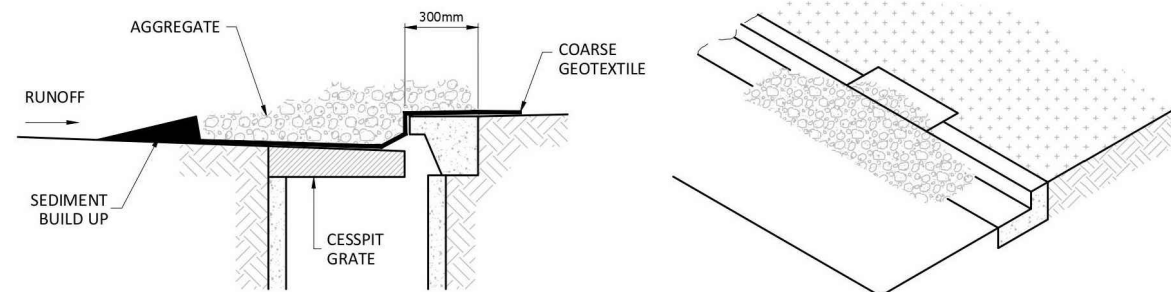
TITLE			
EROSION AND SEDIMENT CONTROL STANDARD DETAIL DRAWING (1 OF 4)			
Drawing Name	EP 4553 PPC G.dwg /EW Standard 1	SUBJECT TO FINAL SURVEY	Rev. A



DIRTY WATER DIVERSION - CROSS SECTION



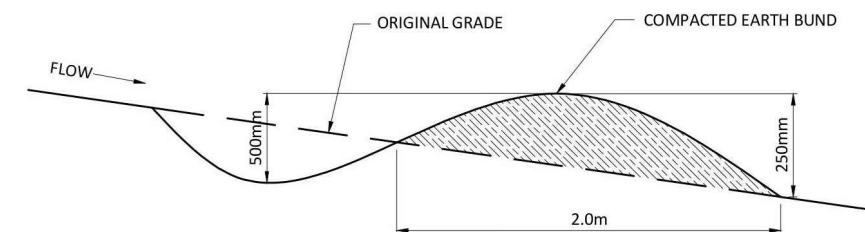
CLEANWATER DIVERSION - CROSS SECTION



CROSS SECTION

PERSPECTIVE VIEW

STORMWATER INLET PROTECTION



CONTOUR DRAIN

STABILISED CONSTRUCTION ENTRANCE:

APPLICATION

- USE A STABILISED CONSTRUCTION ENTRANCE AT ALL POINTS OF CONSTRUCTION SITE INGRESS AND EGRESS WITH A CONSTRUCTION PLAN LIMITING TRAFFIC TO THESE ENTRANCES ONLY.

DESIGN

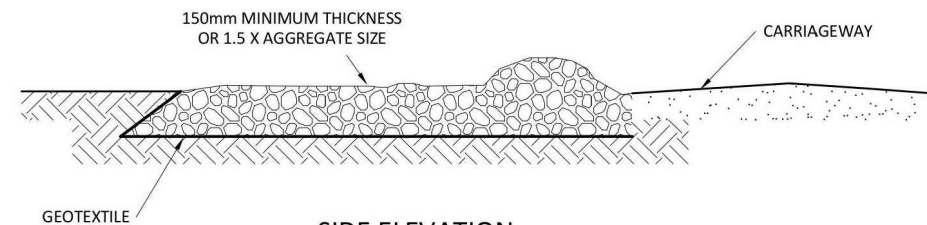
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER UNSUITABLE MATERIAL AND PROPERLY GRADE IT.
- LAY WOVEN GEOTEXTILE; PIN DOWN EDGES AND OVERLAP JOINTS.
- PROVIDE DRAINAGE TO CARRY RUNOFF FROM THE STABILISED CONSTRUCTION ENTRANCE TO A SEDIMENT CONTROL MEASURE.
- PLACE AGGREGATE TO THE SPECIFICATIONS BELOW AND SMOOTH IT.

STABILISED CONSTRUCTION ENTRANCE AGGREGATE SPECIFICATIONS:

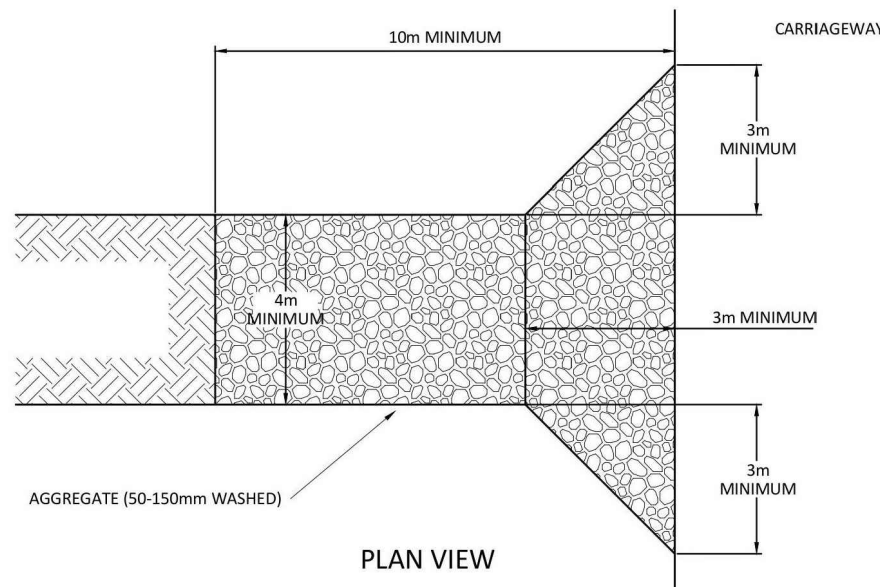
AGGREGATE SIZE	50-150mm WASHED AGGREGATE
THICKNESS	150mm MINIMUM OR 1.5 X AGGREGATE SIZE
LENGTH	10m MINIMUM LENGTH RECOMMENDED
WIDTH	4m MINIMUM WIDTH

MAINTENANCE

- MAINTAIN THE STABILISED CONSTRUCTION ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT FROM THE STABILISED CONSTRUCTION ENTRANCE AND CLEAN OUT AS NECESSARY.
- WHEN WHEEL WASHING IS ALSO REQUIRED, ENSURE THIS IS DONE ON AN AREA STABILISED WITH AGGREGATE WHICH DRAINS TO AN APPROVED SEDIMENT RETENTION FACILITY.

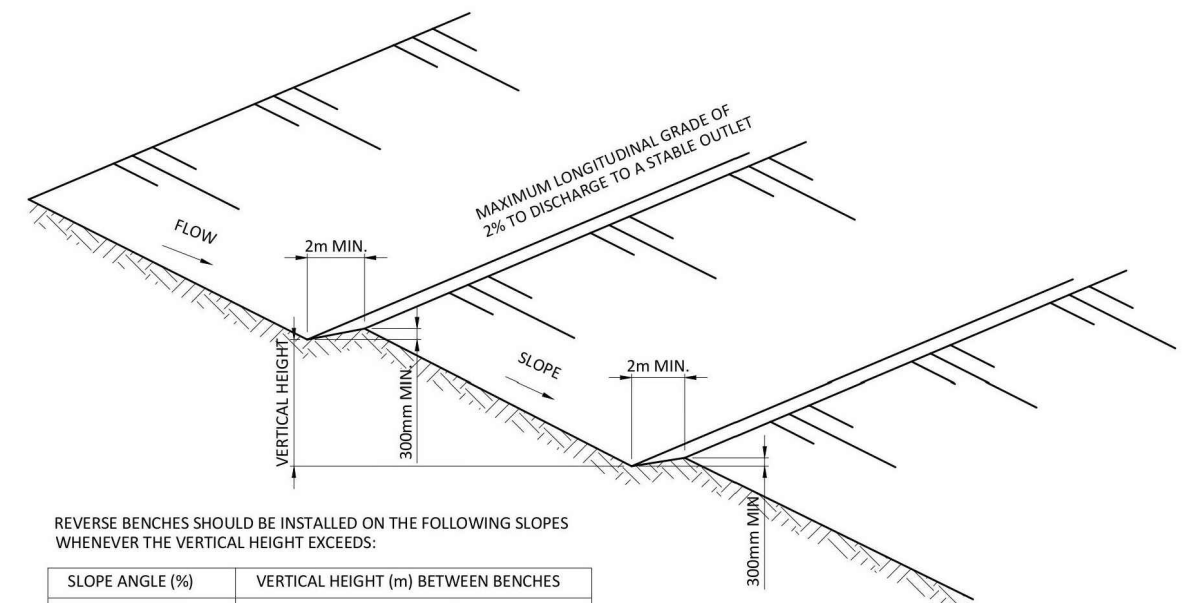


SIDE ELEVATION



PLAN VIEW

STABILISED CONSTRUCTION ENTRANCE



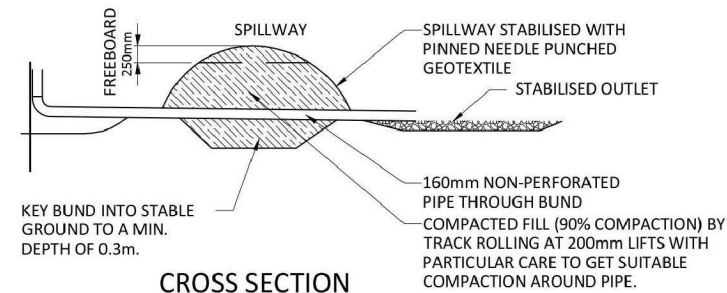
REVERSE BENCHES SHOULD BE INSTALLED ON THE FOLLOWING SLOPES WHENEVER THE VERTICAL HEIGHT EXCEEDS:

SLOPE ANGLE (%)	VERTICAL HEIGHT (m) BETWEEN BENCHES
50	10
33	15
25	20

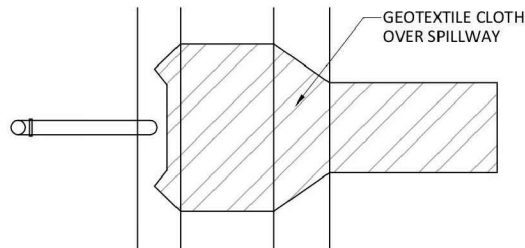
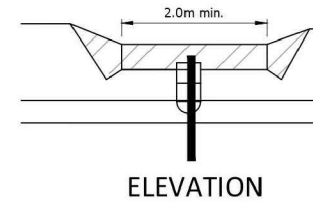
BENCHED SLOPE

C203

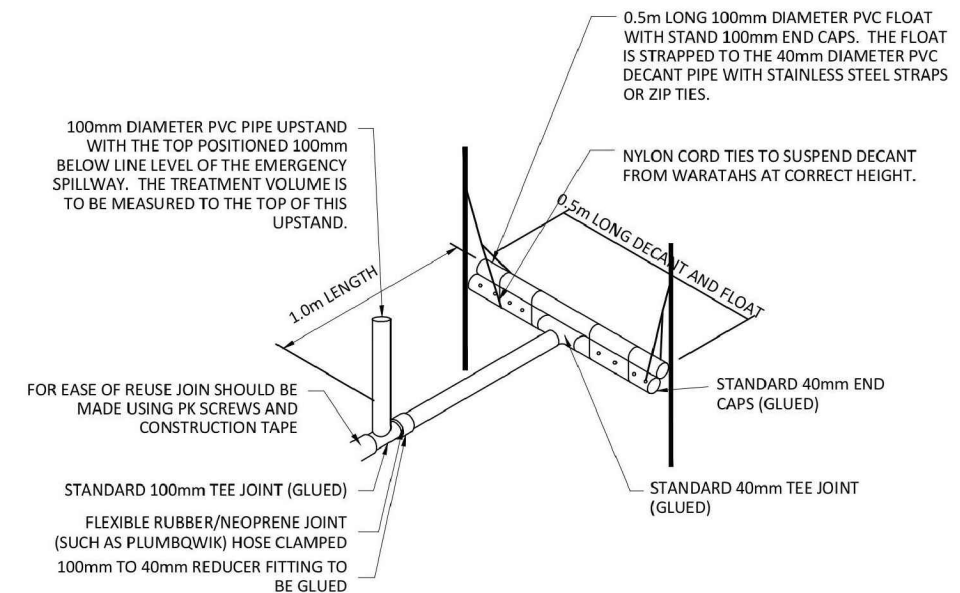
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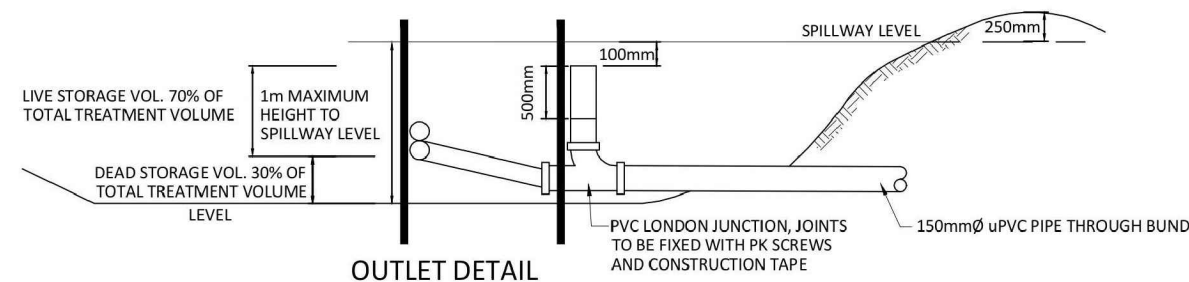
CROSS SECTION



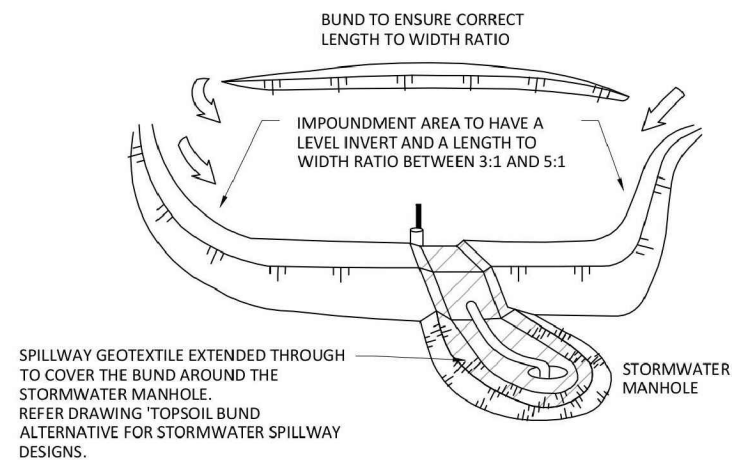
PLAN



40mm DECANT WITH UPSTAND DETAIL



OUTLET DETAIL



DECANTING EARTH BUND

DECANTING EARTH BUND SIZING
MAXIMUM CATCHMENT 0.3ha
2% VOLUME (60m ³ PER 0.3ha CATCHMENT)

Original Scale cm 0 1 2 5 10

C204



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Engineering

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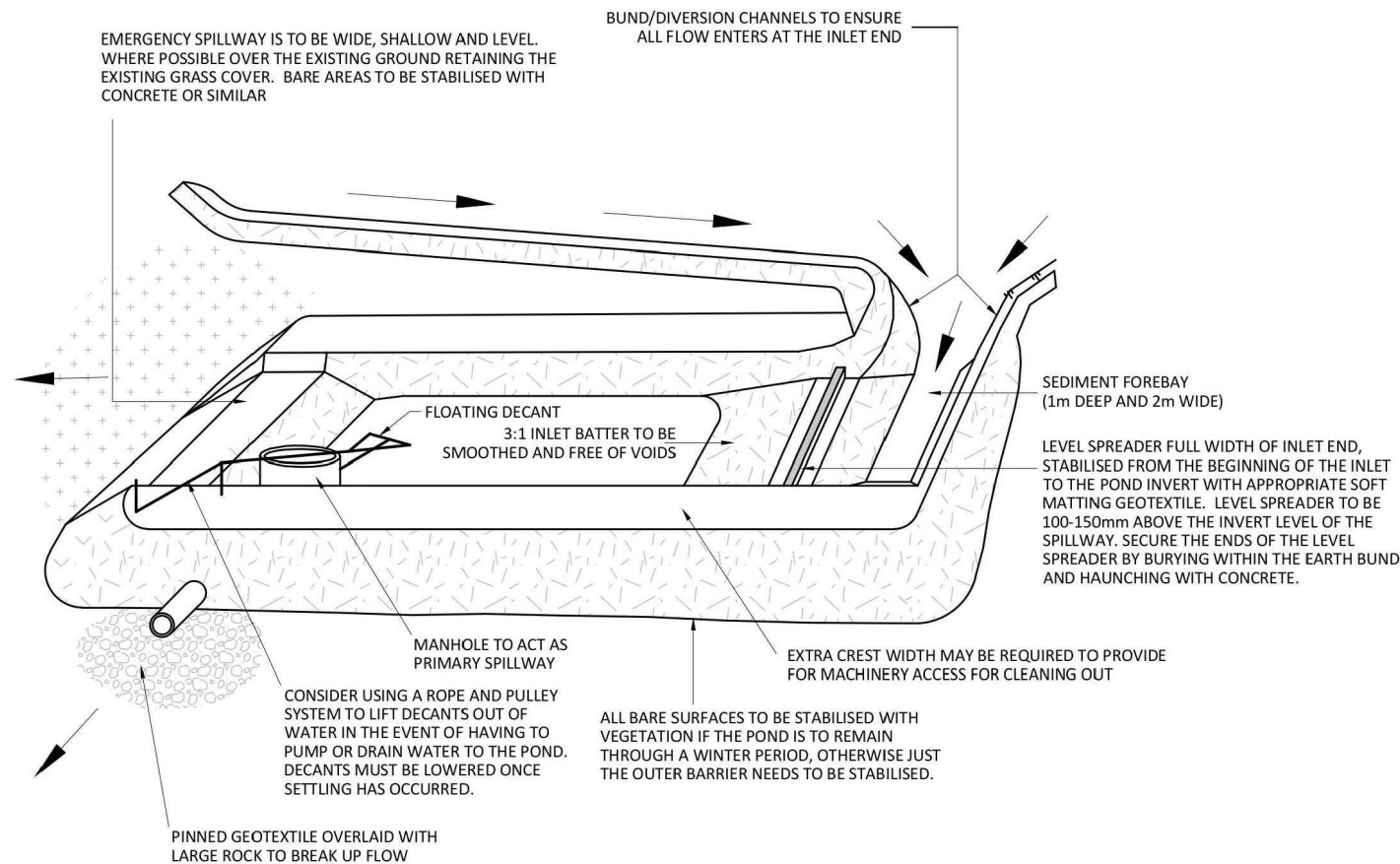
SMITH

70/70A/70B Lisle Farm Drive

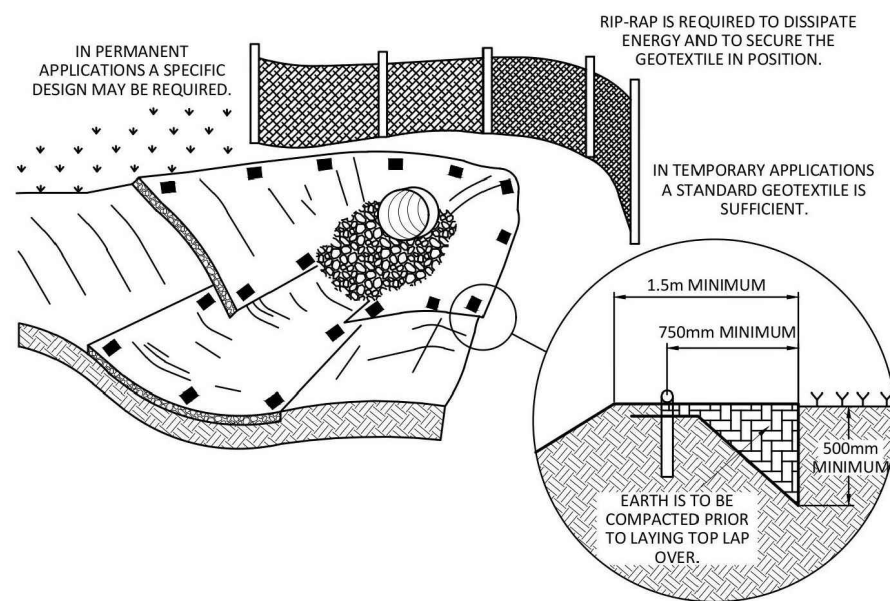
PUKEKOHE

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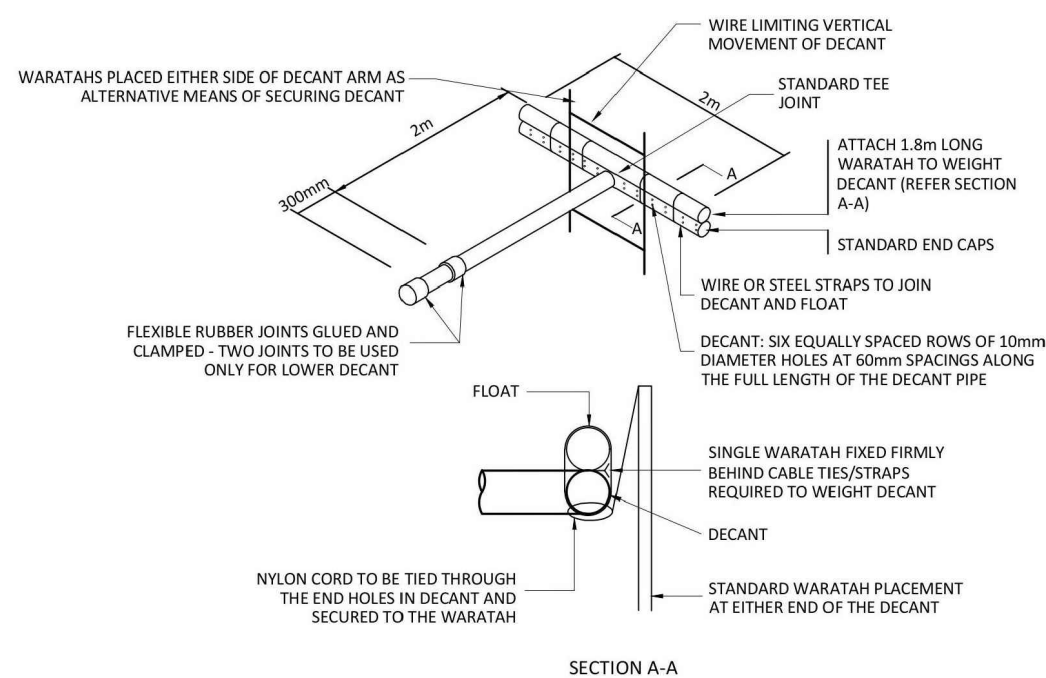
TITLE	EROSION AND SEDIMENT CONTROL STANDARD DETAIL DRAWING (3 OF 4)
Drawing Name	EP 4553 PPC G.dwg /EW Standard 3
SUBJECT TO FINAL SURVEY	Rev. A



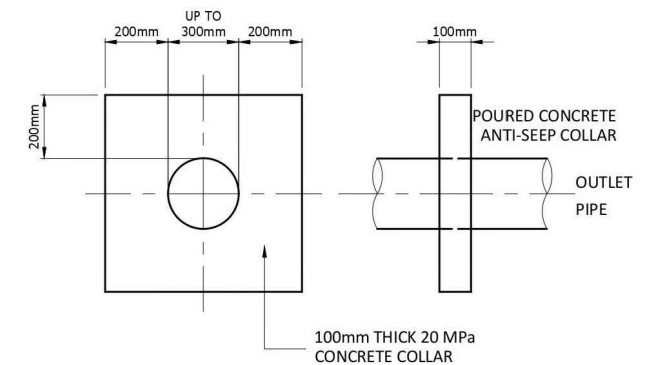
SEDIMENT RETENTION POND



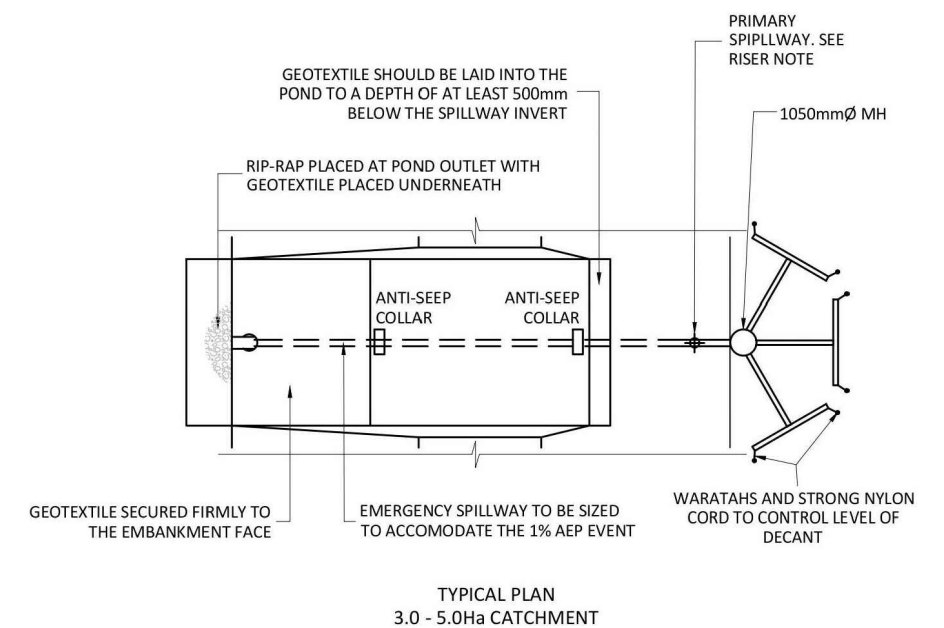
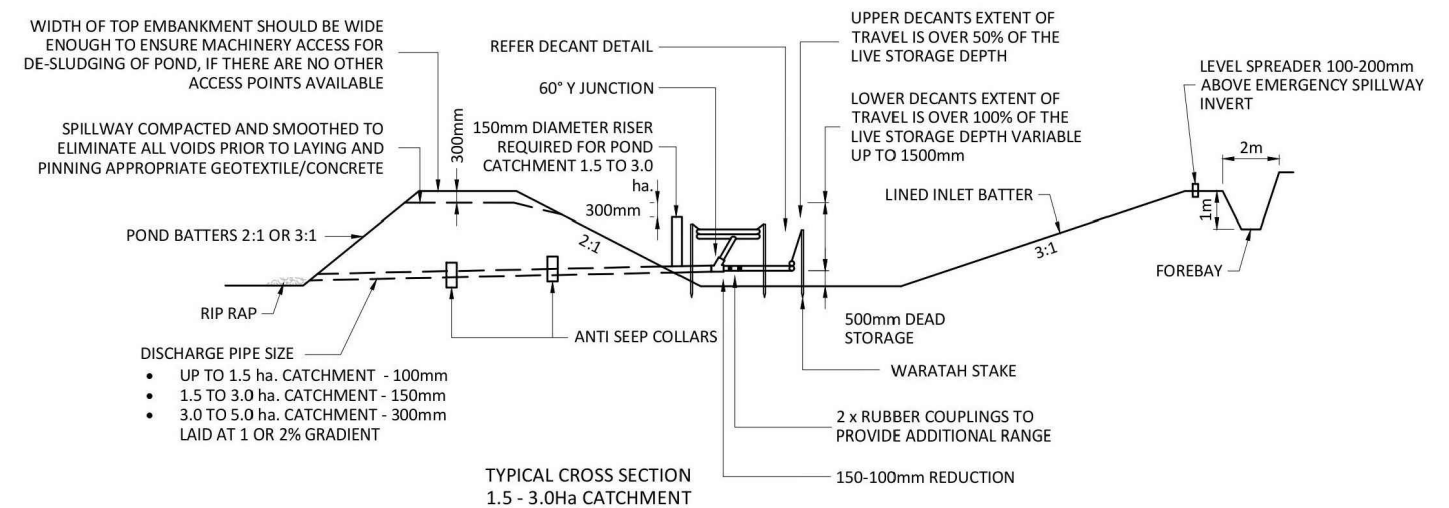
GEOTEXTILE AT CULVERT OUTLET



SEDIMENT RETENTION POND - DECANT DETAIL



ANTI-SEEP COLLAR



SEDIMENT RETENTION POND - EMBANKMENT DETAIL

- NUMBER OF DECANTS FOR EACH POND SHALL BE AS FOLLOWS:
- UP TO 1.5ha CATCHMENT - 1 DECANT
 - 1.5 - 3.0ha CATCHMENT - 2 DECANTS
 - 3.0 - 5.0 ha CATCHMENT - 3 DECANTS - CONNECTED TO DN1050 MH

C205

Original Scale cm 0 1 2 5 10

NOT FOR CONSTRUCTION
PLAN CHANGE ONLY



KEY	
Proposed Lot Boundaries	
Abuttal Boundaries	
Edge of Kerb	
Original Major Contour (1.0m)	
Original Minor Contour (0.2m)	
Proposed Dwelling	
Extent of Earthwork	
Silt Fence	
Clean Water Bund	
Existing Dwellings/Units	

NOTES

- 1) All works to comply with local authority Engineering Quality Standards latest edition.
- 2) Vertical datum is in terms of Auckland Vertical Datum 1946.
- 3) Horizontal Datum is in terms of Mt Eden 2000
- 4) Underground Telecom cables, Fibre Optic Cables, Power cables, Gas pipes and Water Pipes are not necessarily shown. Contractor to verify their positions within the road and on private property prior to commencing work.
- 5) All fill is to be clean fill material free of organics and is to be placed to class A compaction standards and certified by a geotechnical engineer.
- 6) It is the contractors responsibility to arrange to have all fill areas inspected by the geotechnical engineer prior to placing fill and further inspections as required by the geotechnical engineer for the purpose of carrying out compaction testing.
- 7) All setout of the works is the responsibility of the contractor.
- 8) Hardfill backfill to be placed under all driveways and accessways at the direction of the engineer.
- 9) Topsoil in Berms is to rotary hoed topsoil from site or as otherwise approved material, 150mm thick and free of stones, debris etc.
- 10) Telecom, Power and Water Services are shown as a guide only and locations should be verified by the appropriate network authority prior to installation of ducting.
- 11) Contractor is to arrange appropriate traffic permits and is responsible for maintaining onsite traffic safety.
- 12) This document shall be used only for the purpose for which it is supplied. No reproduction, copying, reuse, sale, hire, loan, or gift of this document directly or indirectly is permitted without the prior written consent of Birch Surveyors Limited.

EXISTING DWELLING/SHED TO BE
REMOVED/DEMOLISHED

C206

Original Scale cm 0 1 2 5 10





2A Wesley Street
Pukekohe 2120
PO Box 475
Pukekohe 2340

Planning
Surveying
Engineering

Ph: 09 237 1111
pukekohe@bslnz.com
www.birchsveyors.co.nz

LOCAL AUTHORITY	AUCKLAND COUNCIL
PLANNING MAP	AUCKLAND UNITARY PLAN
ZONING	FUTURE URBAN ZONE
ACTIVITY	-
COMPRISED IN	NA84D/710, NA84D/711, NA103A/604
TOTAL AREA	10.130 ha, 8.517 ha, 0.5378 ha
REGISTERED OWNERS	STEPHEN SMITH DIANNE SMITH

PROJECT NAME
SMITH
70/70A/70B LISLE FARM DRIVE
PUKEKOHE

Surveyed	BSL	Date	04/19
Designed	S.HANG	Date	06/23
Drawn	S.HANG	Date	06/23
Approved	K.BOSGRA	Date	-
Project No. 4553			
Scale Hz: 1:500 @ A3			
REV.	BY	DATE	COMMENT
A	SH	06/23	INITIAL ISSUE
B	SH	11/24	CLAUSE 23

TITLE	
NATURAL CONTOUR PLAN FOR LISLE FARM ENTRY OF LOT 1 DP 143272, LOT 2 DP 143272, LOT 1 DP 169148	
Drawing Name	EP 4553 PPC G.dwg /EW (3)
SUBJECT TO FINAL SURVEY	
Rev.	B

