

Cross Section

**NELSON
CITY
COUNCIL**

**CLEARWATER RUNOFF
DIVERSION BUND**

INFRASTRUCTURAL ASSETS

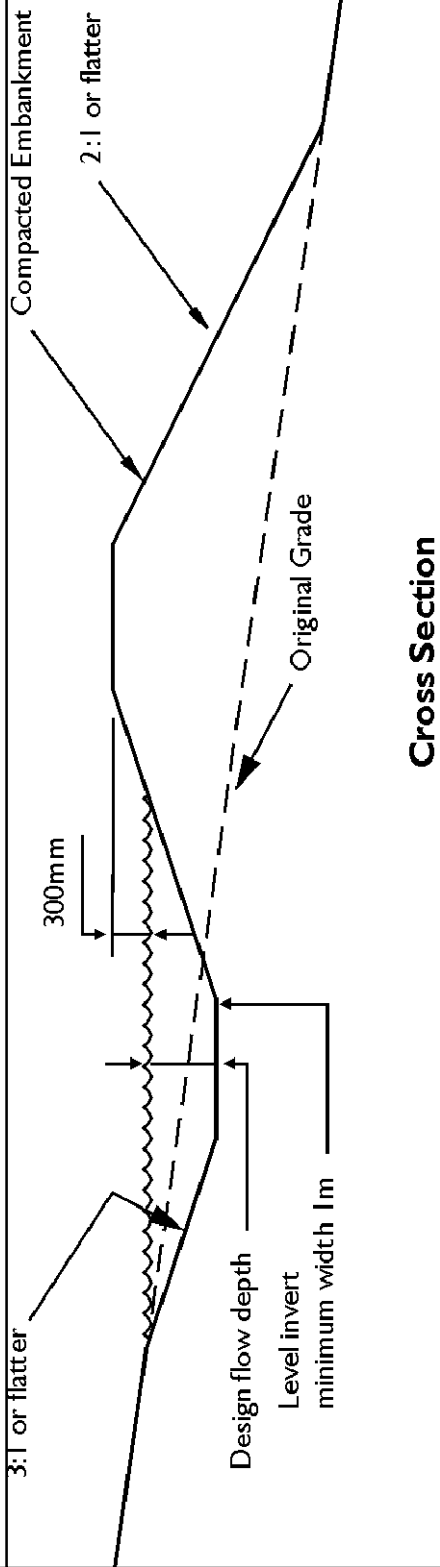
APPROVED

29/07/2010

SENIOR EXECUTIVE INFRASTRUCTURE

DATE

SD 901



**NELSON
CITY
COUNCIL**

**RUNOFF DIVERSION
CHANNEL**

INFRASTRUCTURAL ASSETS

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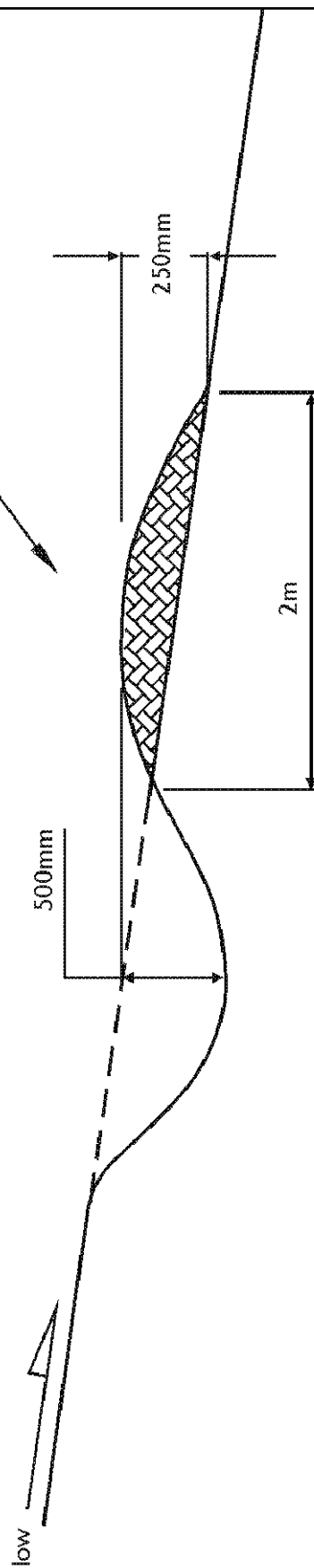
29/07/2010

.....
SENIOR EXECUTIVE INFRASTRUCTURE

.....
DATE

SD 902

Compacted Earth Bund



Cross Section

**NELSON
CITY
COUNCIL**

CONTOUR DRAIN

INFRASTRUCTURAL ASSETS

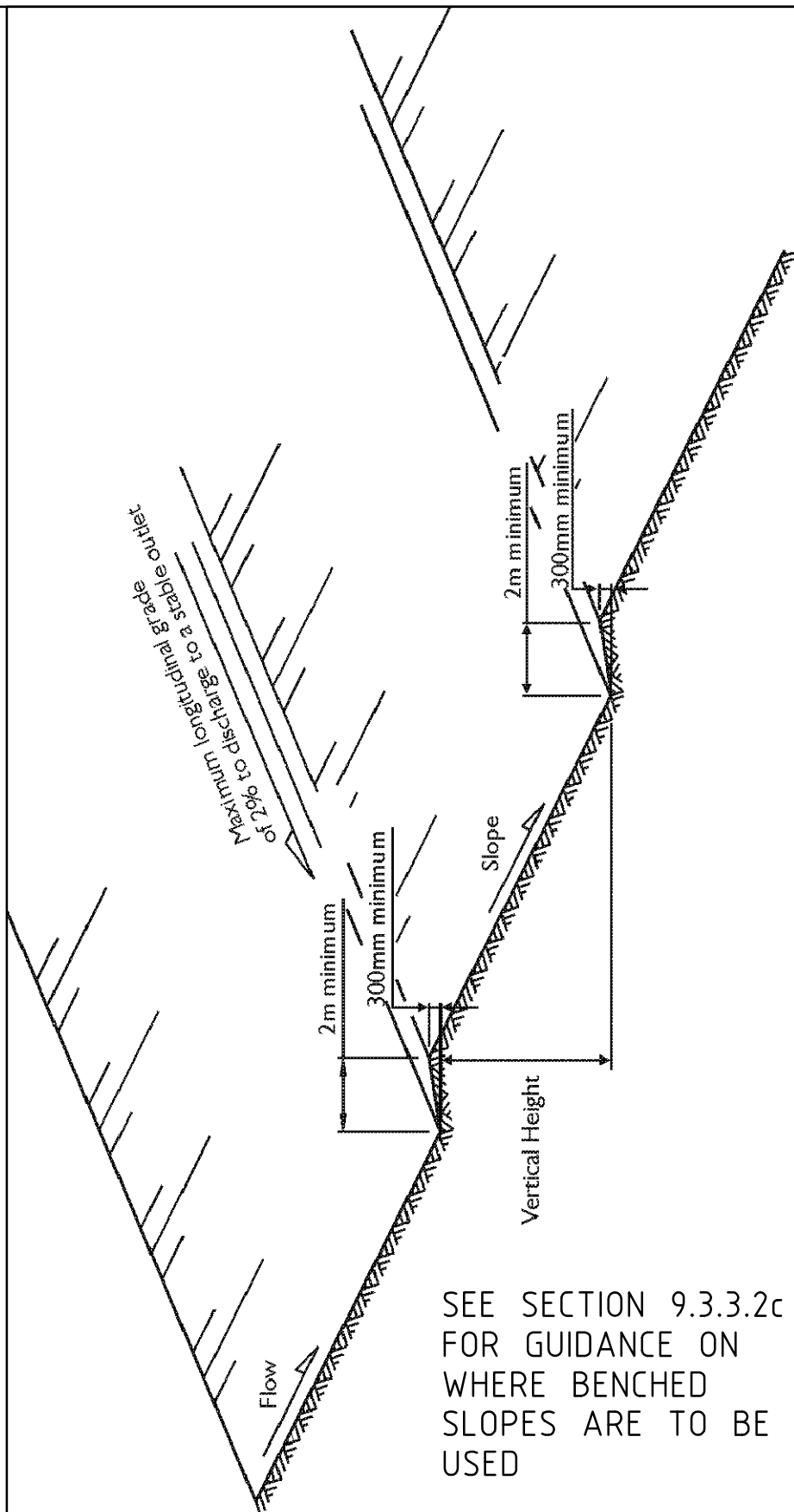
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SENIOR EXECUTIVE INFRASTRUCTURE

29/07/2010

.....
DATE

SD 903



SEE SECTION 9.3.3.2c
FOR GUIDANCE ON
WHERE BENCHED
SLOPES ARE TO BE
USED

**NELSON
CITY
COUNCIL**

BENCHED SLOPE

INFRASTRUCTURAL ASSETS

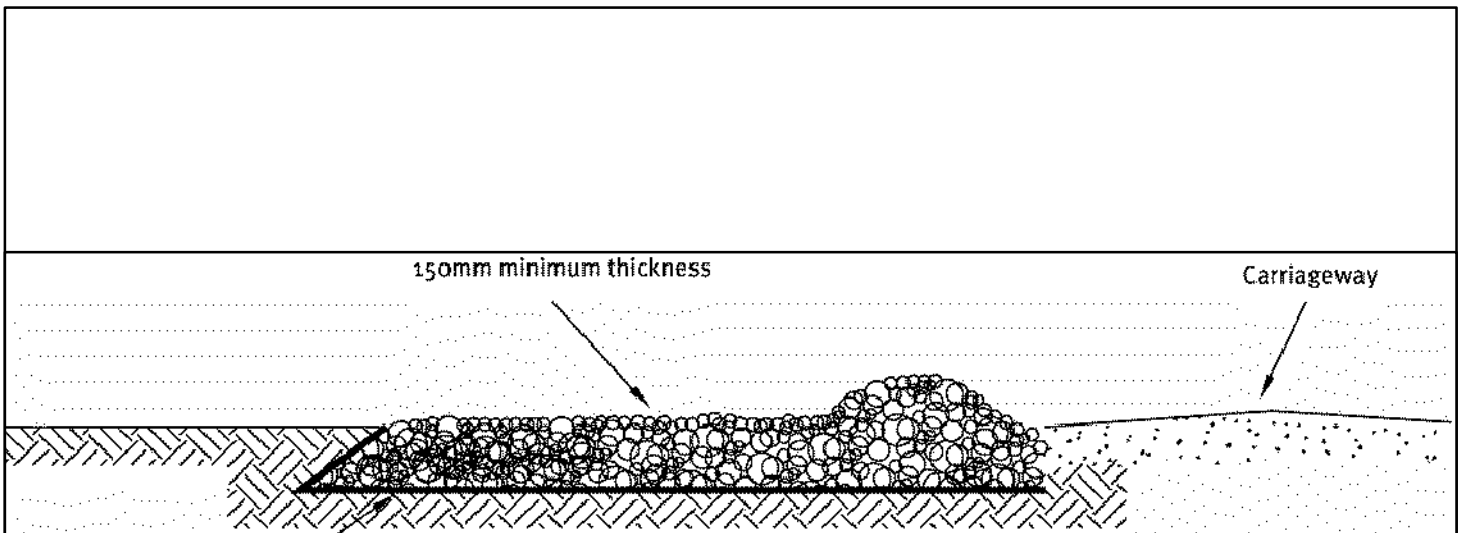
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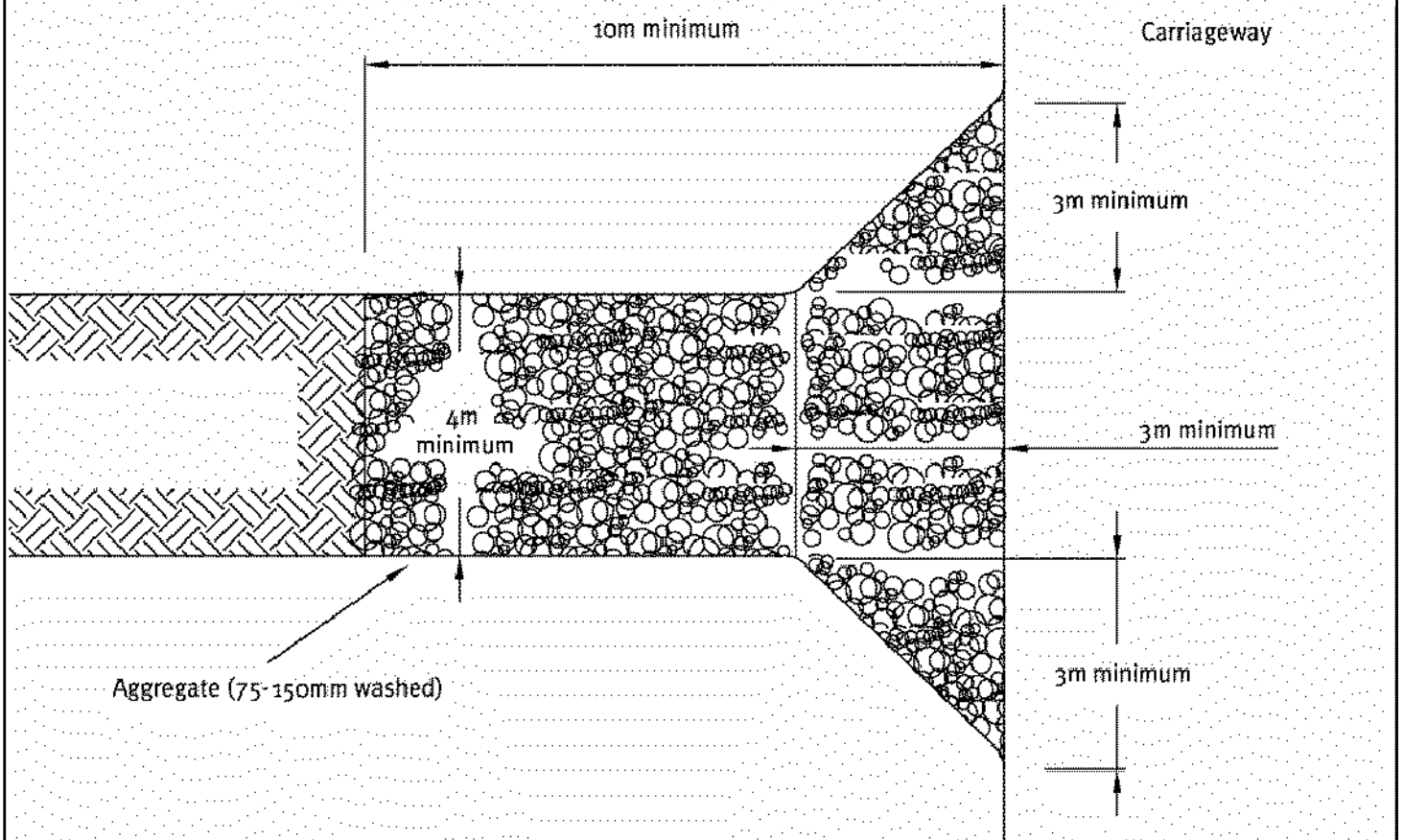
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SENIOR EXECUTIVE INFRASTRUCTURE

.....
DATE

SD 904



Side Elevation



Plan View

**NELSON
CITY
COUNCIL**

**STABILISED CONSTRUCTION
ENTRANCE**

INFRASTRUCTURAL ASSETS

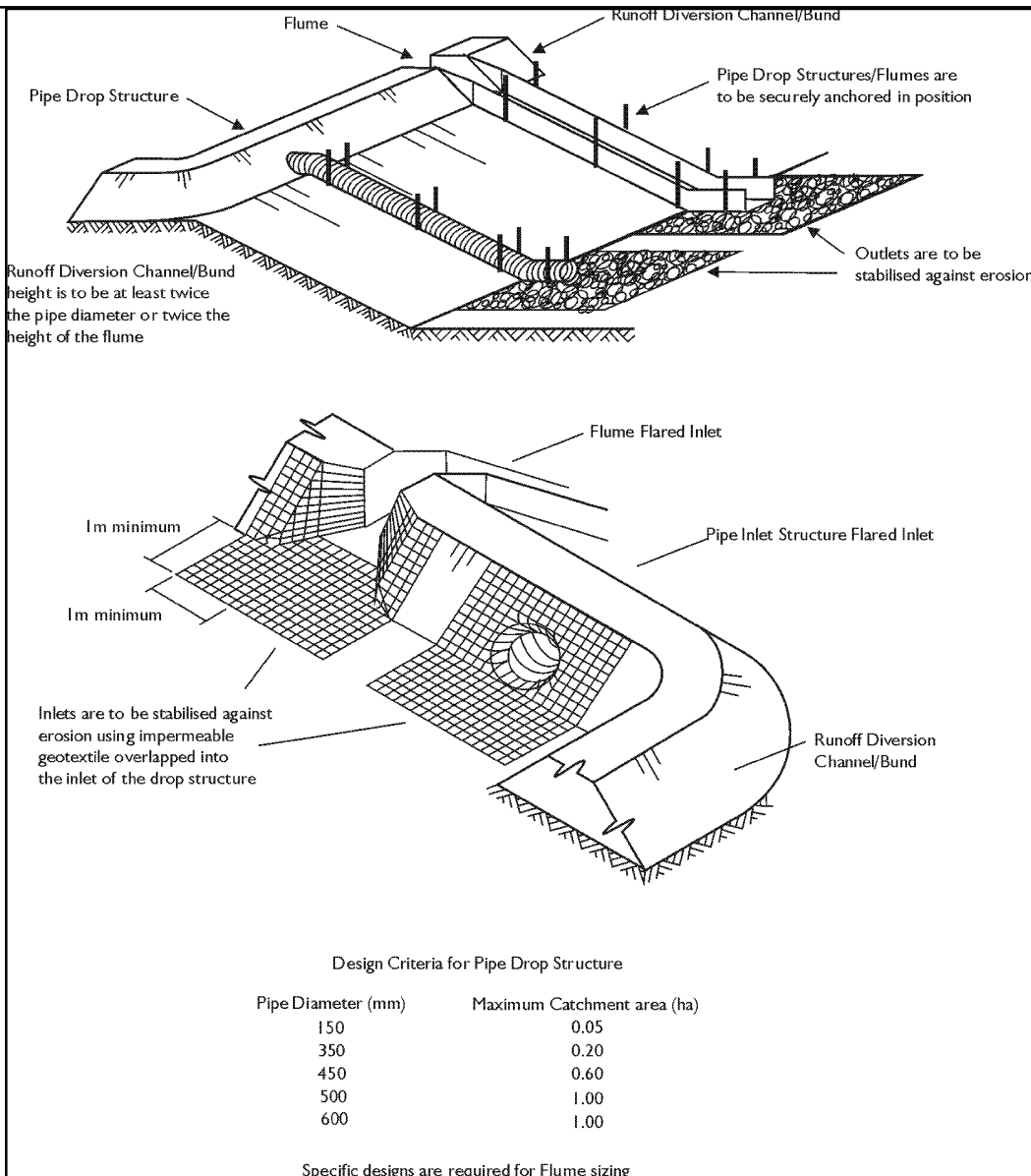
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SENIOR EXECUTIVE INFRASTRUCTURE

DATE

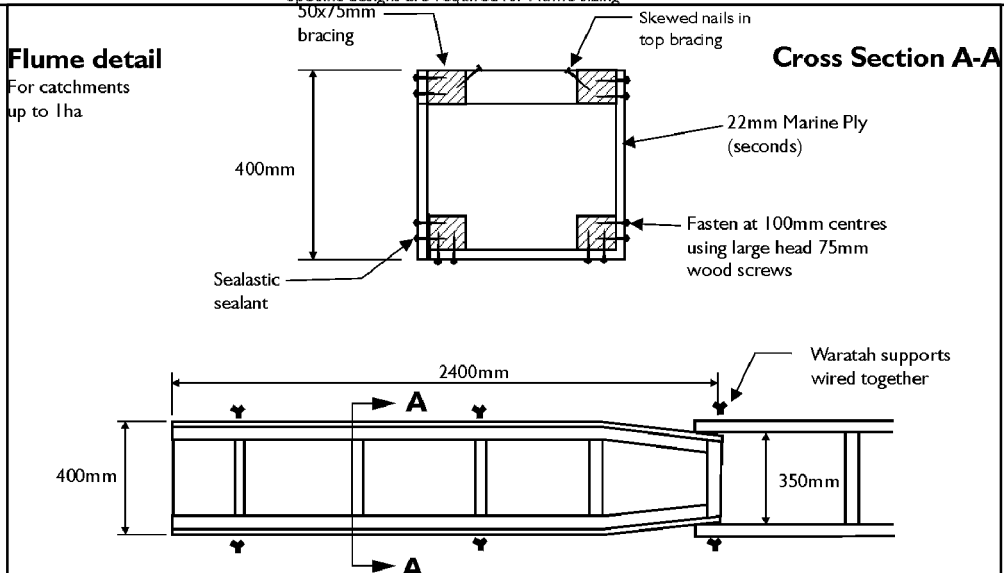
SD 905



Design Criteria for Pipe Drop Structure

Pipe Diameter (mm)	Maximum Catchment area (ha)
150	0.05
350	0.20
450	0.60
500	1.00
600	1.00

Specific designs are required for Flume sizing



**NELSON
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COUNCIL**

PIPE DROP STRUCTURE

INFRASTRUCTURAL ASSETS

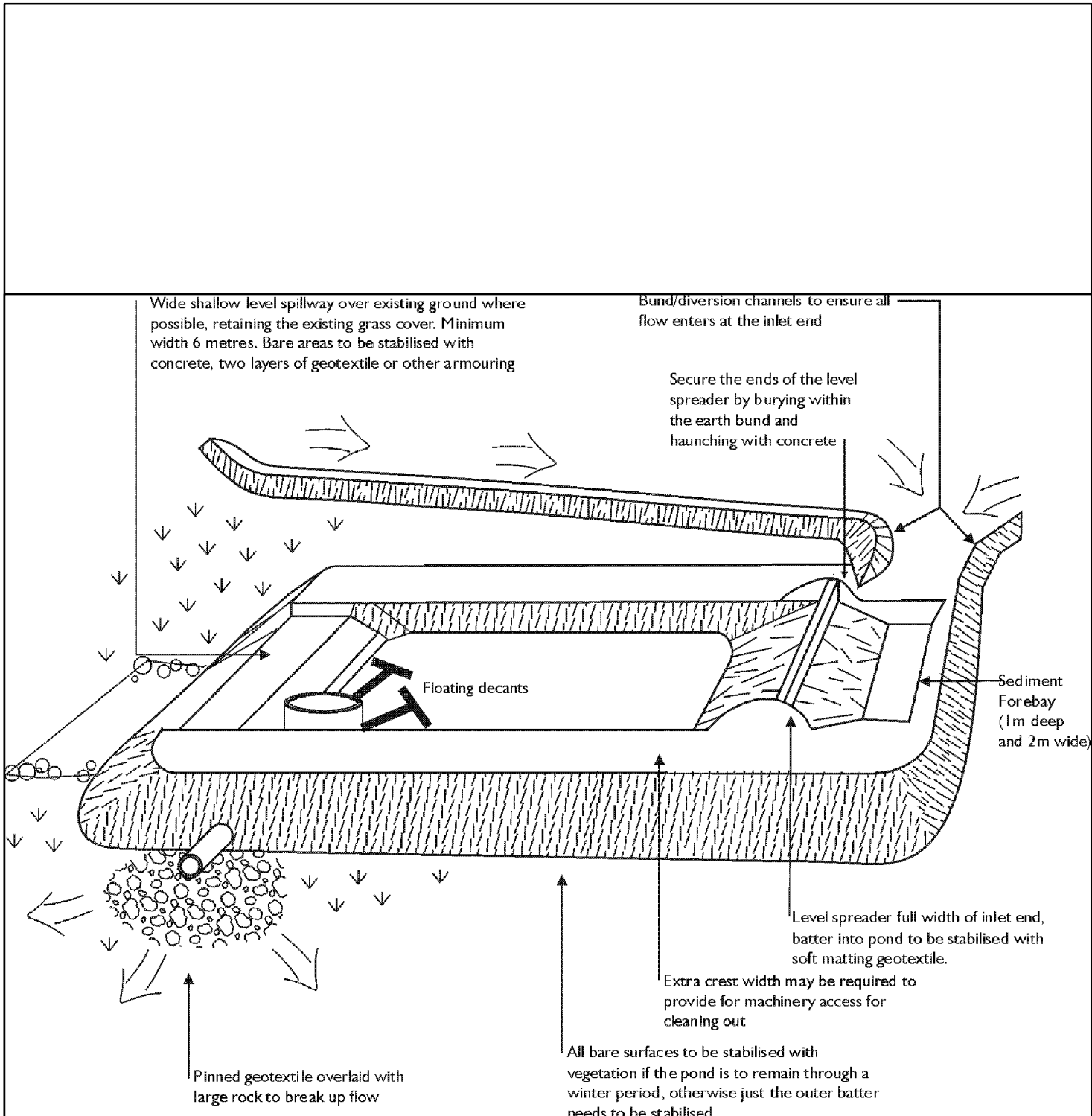
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29/07/2010

DATE

SD 906



**NELSON
CITY
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SEDIMENT RETENTION POND

INFRASTRUCTURAL ASSETS

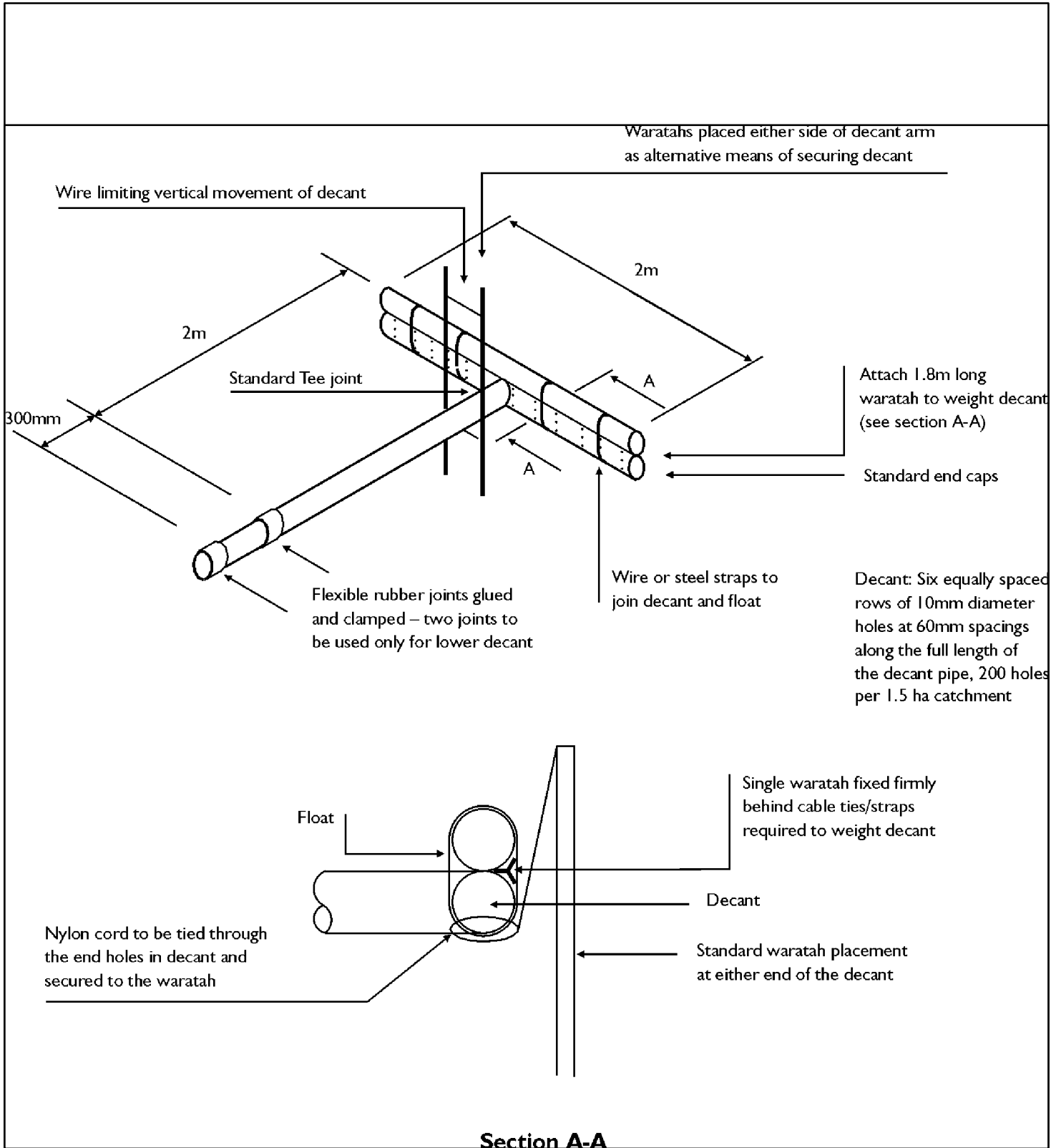
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SENIOR EXECUTIVE INFRASTRUCTURE

DATE

SD 907



**NELSON
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COUNCIL**

DECANT DETAIL

INFRASTRUCTURAL ASSETS

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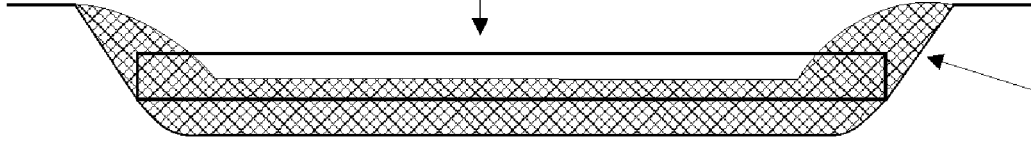
SENIOR EXECUTIVE INFRASTRUCTURE

29/07/2010

DATE

SD 908

Level spreader
150 mm x 50 mm
timber weir



Earth Bund with
site concrete
cover

Level spreader full width of inlet end,
stabilised from the beginning of the inlet
to the pond invert with appropriate soft
matting textile.

Level spreader

Concrete haunching

Geotextile wrapped
around level spreader
and concrete haunching

3 : 1 inlet batter to be smoothed
and free of voids

Forebay
1 m deep

Sediment Retention Pond

Geotextile

**NELSON
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COUNCIL**

LEVEL SPREADER

INFRASTRUCTURAL ASSETS

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SENIOR EXECUTIVE INFRASTRUCTURE

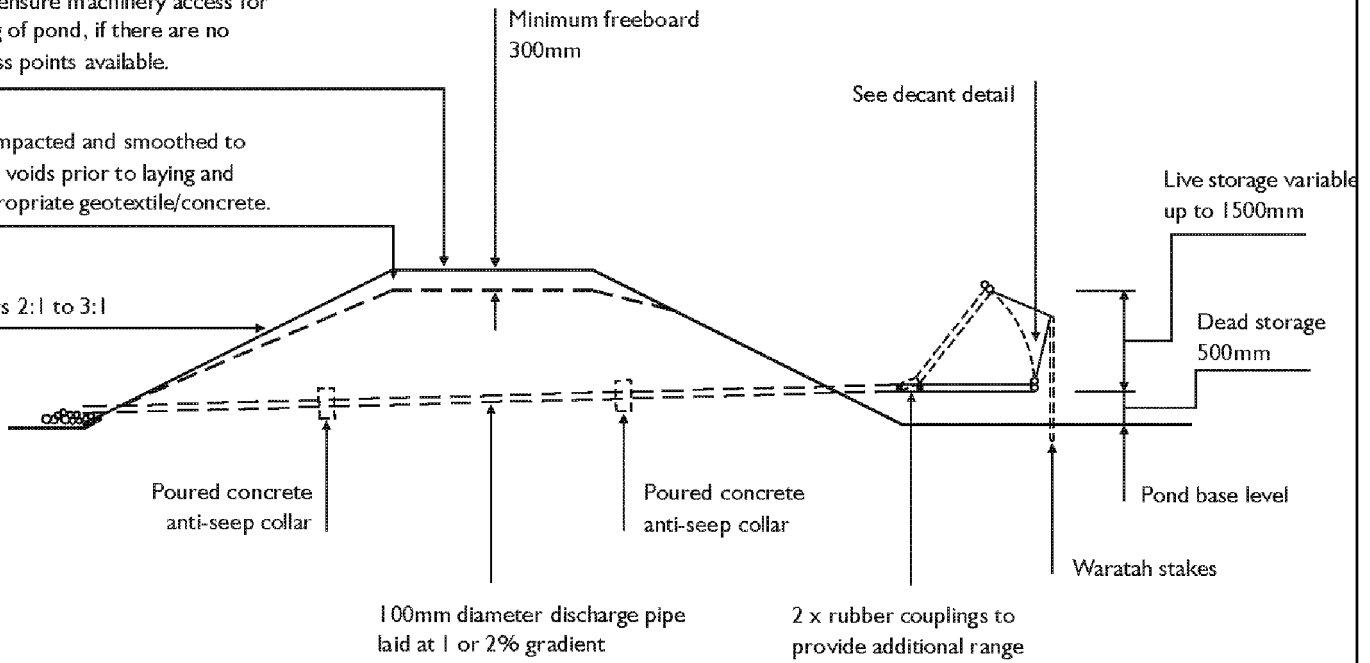
DATE

SD 909

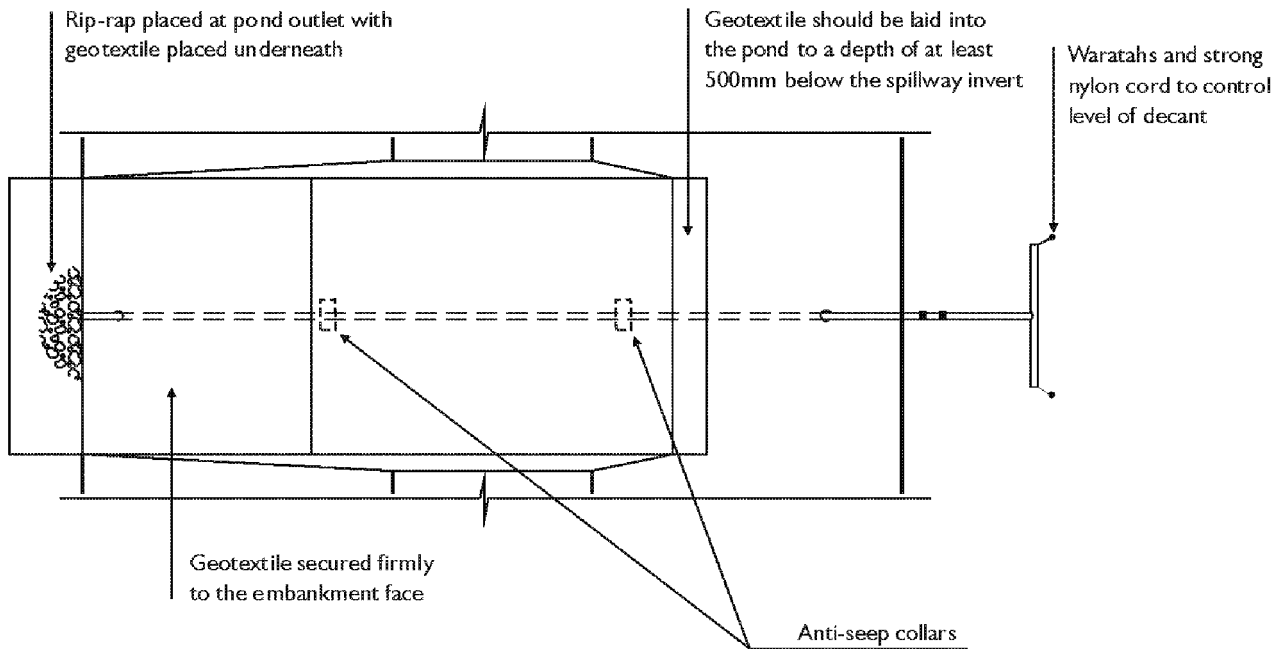
Width of top embankment should be wide enough to ensure machinery access for de-sludging of pond, if there are no other access points available.

Spillway compacted and smoothed to eliminate all voids prior to laying and pinning appropriate geotextile/concrete.

Pond batters 2:1 to 3:1



Cross Section



Plan

**NELSON
CITY
COUNCIL**

**SEDIMENT RETENTION POND FOR
CATCHMENTS UP TO 1.5ha**

INFRASTRUCTURAL ASSETS

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SENIOR EXECUTIVE INFRASTRUCTURE

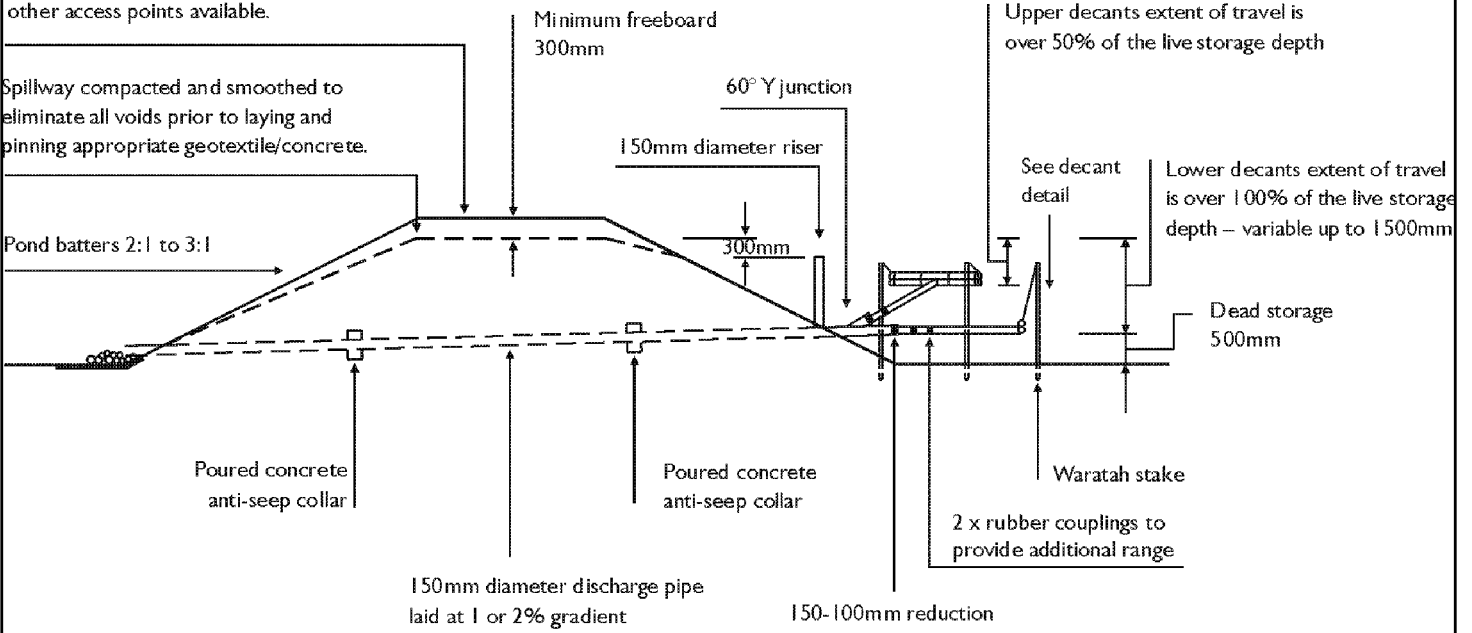
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SD 910

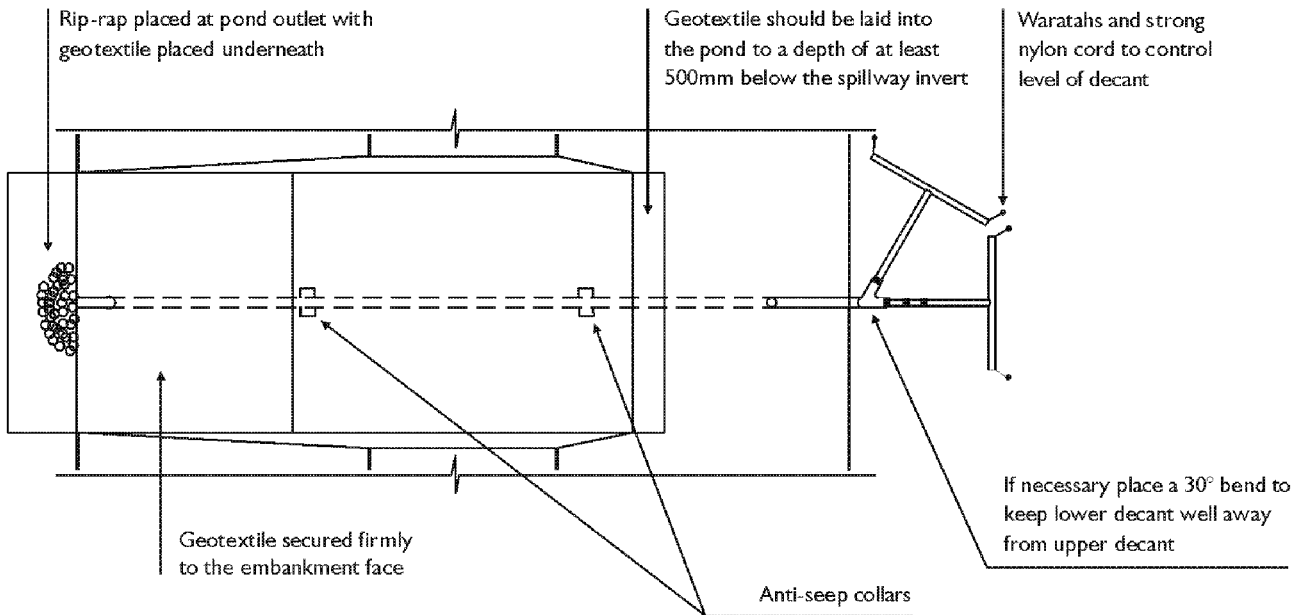
Width of top embankment should be wide enough to ensure machinery access for de-sludging of pond, if there are no other access points available.

Spillway compacted and smoothed to eliminate all voids prior to laying and pinning appropriate geotextile/concrete.

Pond batters 2:1 to 3:1



Cross Section



Plan

**NELSON
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COUNCIL**

**SEDIMENT RETENTION POND FOR
CATCHMENTS BETWEEN 1.5ha and 3ha**

INFRASTRUCTURAL ASSETS

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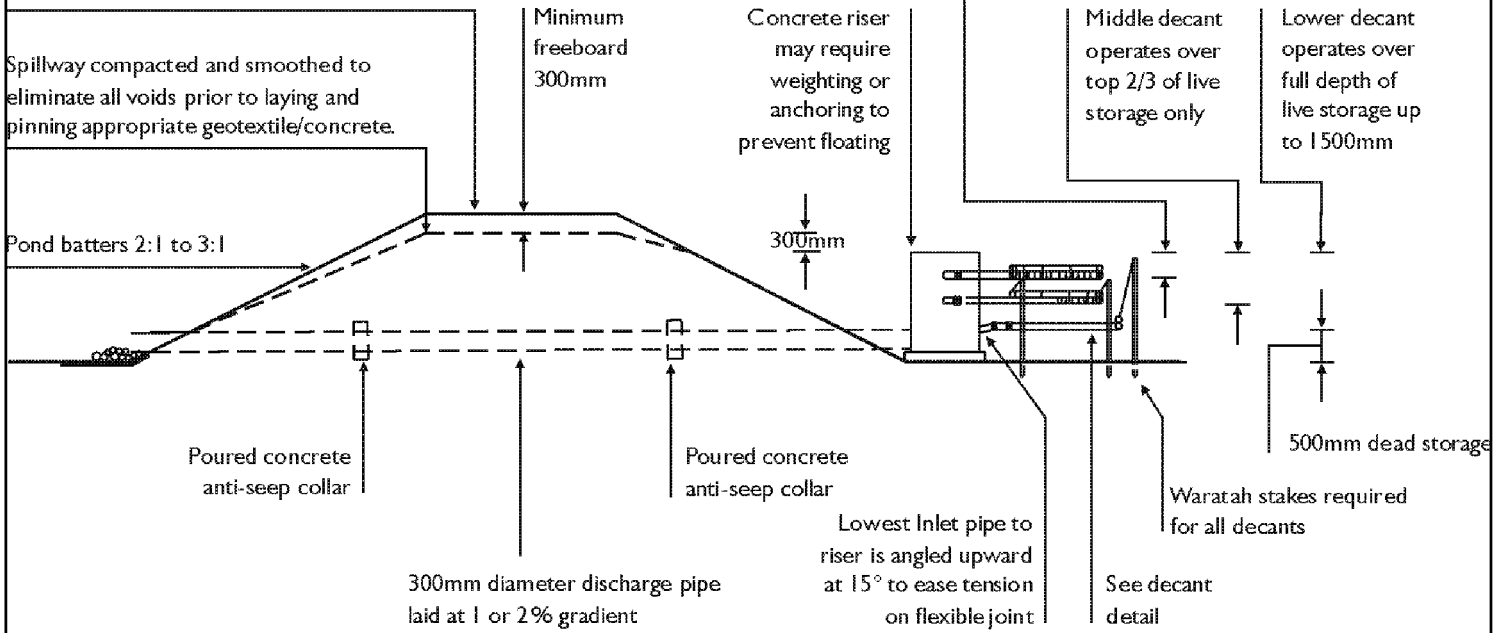
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SENIOR EXECUTIVE INFRASTRUCTURE

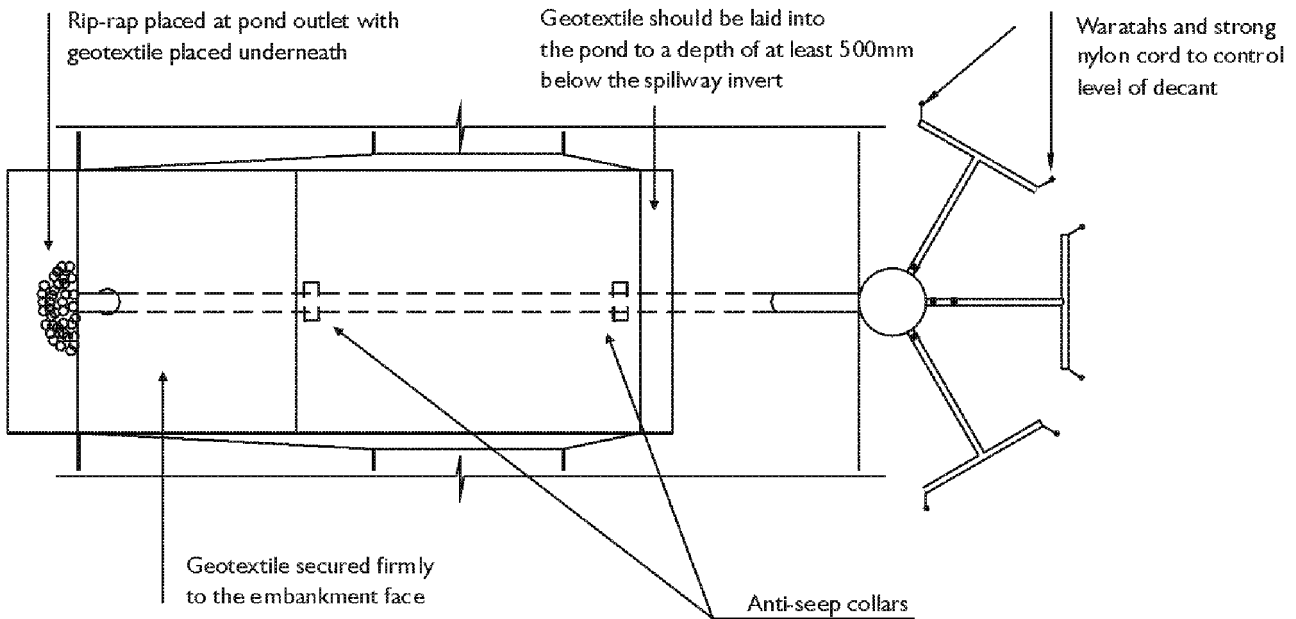
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DATE

SD 911

Width of top embankment should be wide enough to ensure machinery access for de-sludging of pond, if there are no other access points available.



Cross Section



Plan

**NELSON
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**SEDIMENT RETENTION POND FOR
CATCHMENTS BETWEEN 3ha and 5ha**

INFRASTRUCTURAL ASSETS

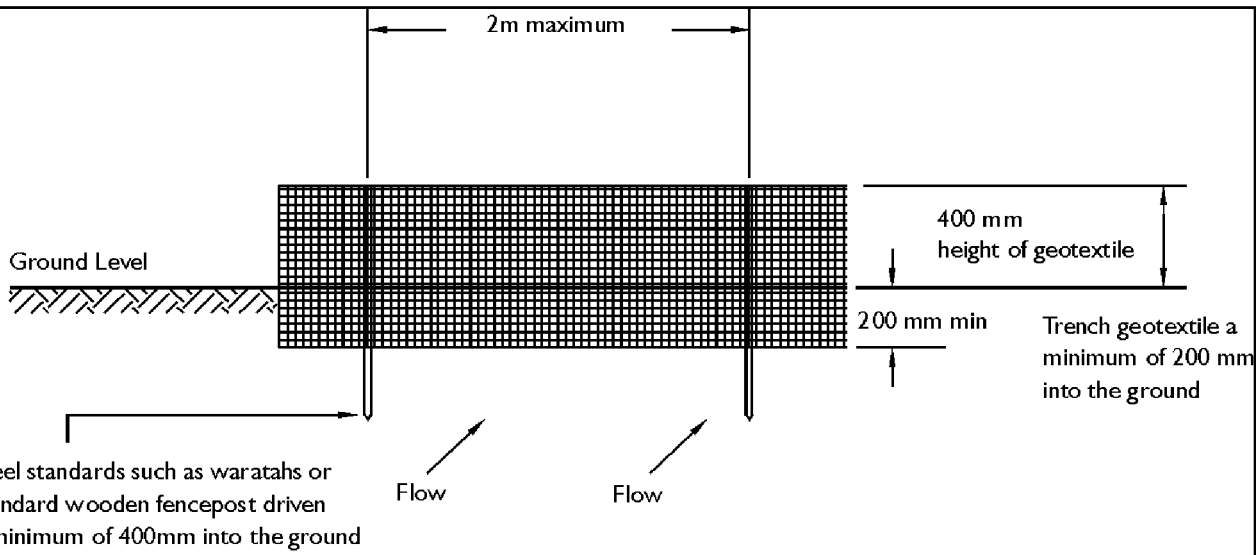
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SENIOR EXECUTIVE INFRASTRUCTURE

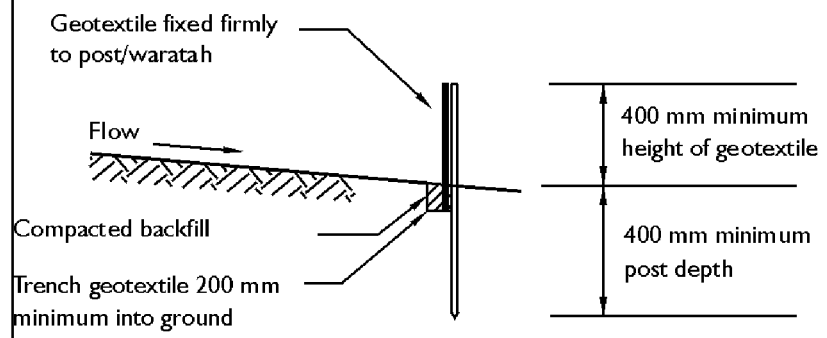
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DATE

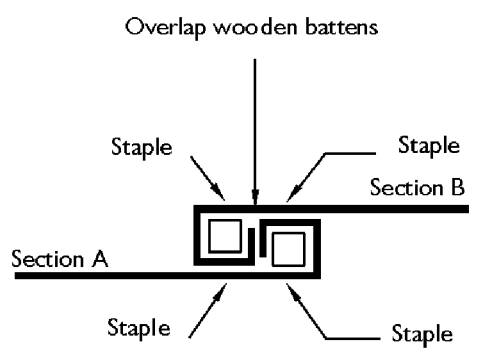
SD 912



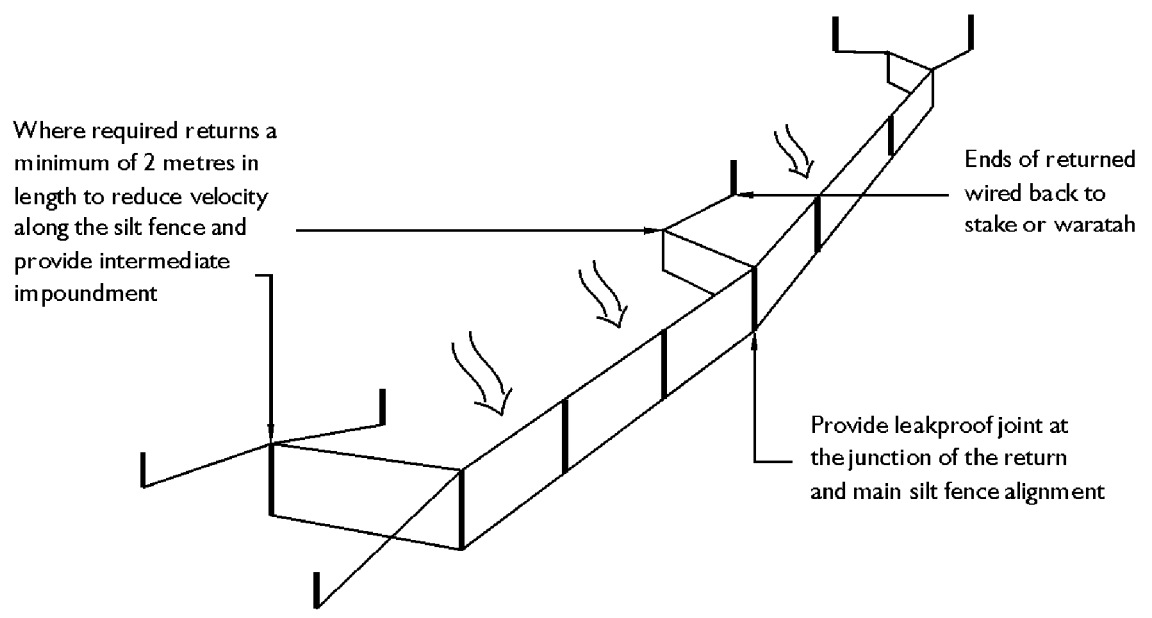
Elevation



Cross Section

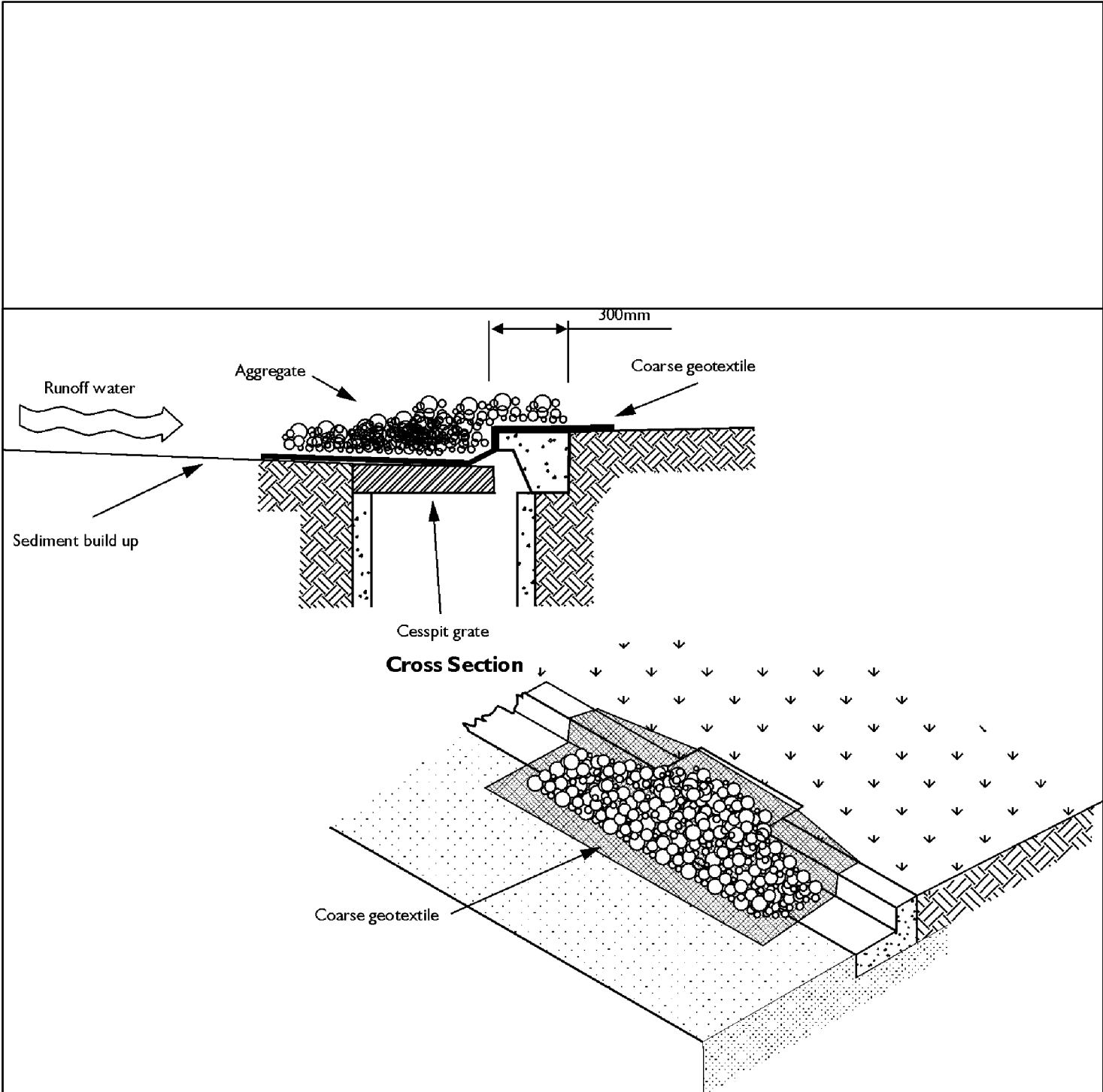


Standard Fabric Joint



Perspective View

<p>NELSON CITY COUNCIL</p>	<p>SILT FENCE</p>	
	<p>INFRASTRUCTURAL ASSETS</p> <p>APPROVED </p> <p>SENIOR EXECUTIVE INFRASTRUCTURE</p>	<p>29/07/2010</p> <p>DATE</p>



**NELSON
CITY
COUNCIL**

STORMWATER INLET PROTECTION

INFRASTRUCTURAL ASSETS

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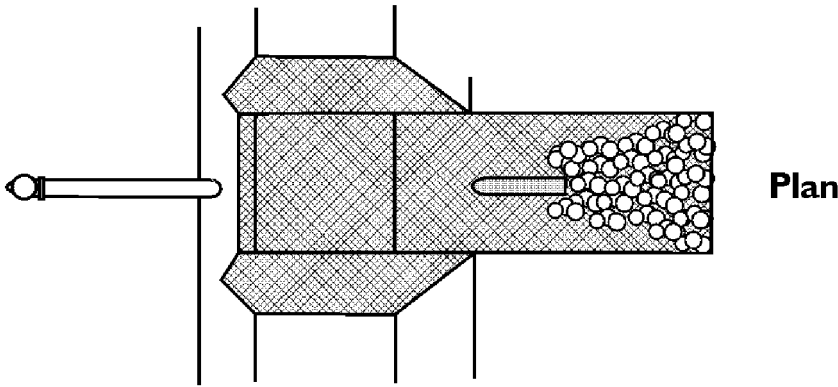
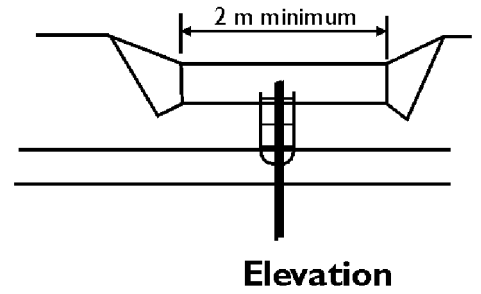
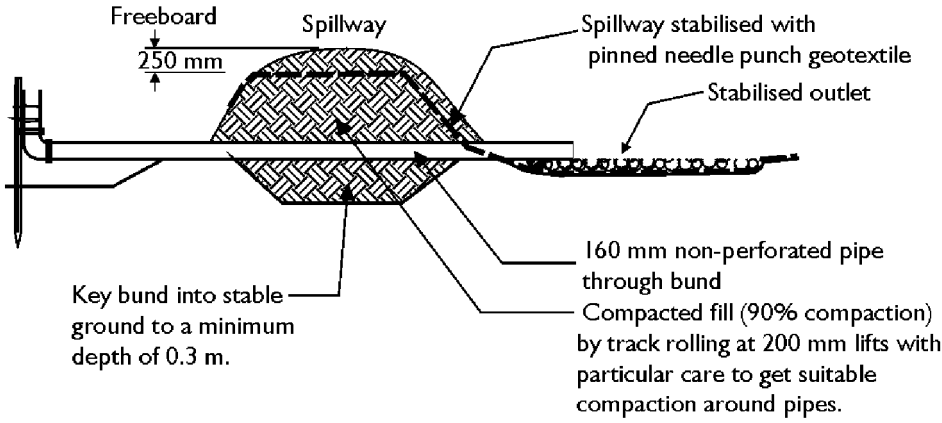
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SENIOR EXECUTIVE INFRASTRUCTURE

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DATE

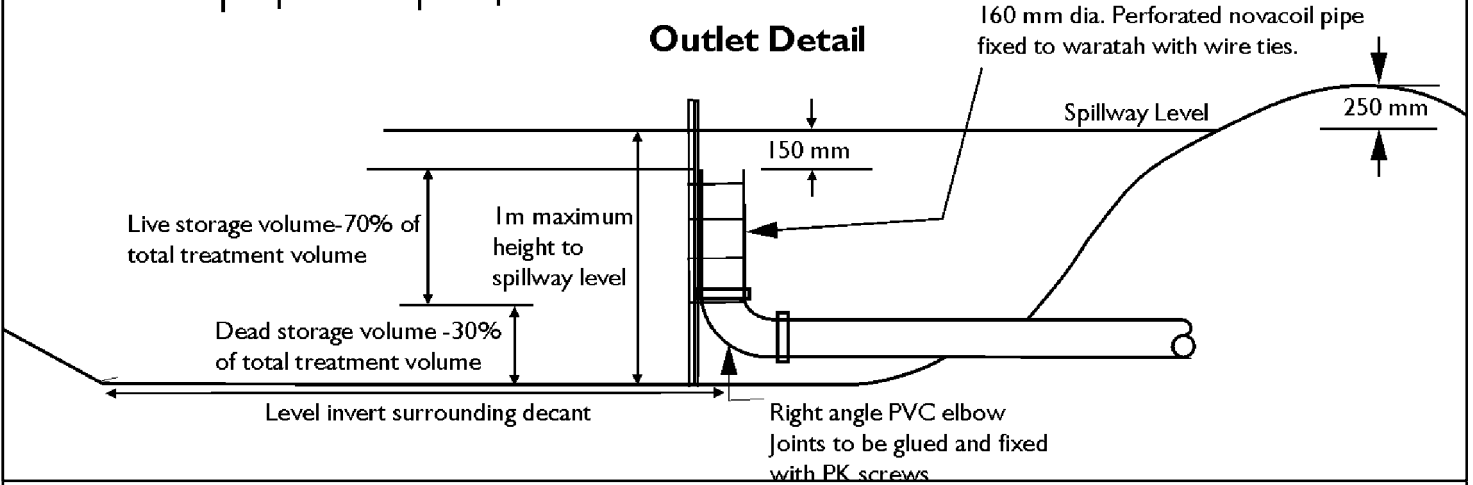
SD 914

Cross Section



Decanting Earth Bund
 Maximum Catchment 0.3 ha
 2% volume
 (60m³ per 0.3 ha catchment)

Outlet Detail



**NELSON
 CITY
 COUNCIL**

EARTH BUND

INFRASTRUCTURAL ASSETS

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 SENIOR EXECUTIVE INFRASTRUCTURE

.....
 DATE

SD 915