

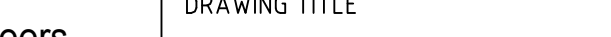
CLIENT: **HANSON CONSTRUCTION MATERIALS**

<b>DRAWING LIST</b>		
<b>DWG NO.</b>	<b>REV</b>	<b>DWG TITLE</b>
<b>GENERAL</b>		
PS02-A000	C	COVER SHEET
<b>CONSTRUCTION MANAGEMENT WORKS</b>		
PS02-B300	B	SEDIMENT & EROSION CONTROL PLAN
PS02-B310	A	SEDIMENT & EROSION CONTROL DETAILS
<b>DRAINAGE</b>		
PS02-E100	C	DRAINAGE PLAN - SHEET 1
PS02-E101	A	DRAINAGE PLAN - SHEET 2
PS02-E200	B	DRAINAGE DETAILS
PS02-E300	B	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1)
PS02-E301	B	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2)
PS02-E302	A	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3)
PS02-E700	D	WATER BALANCE CATCHMENT PLAN & MODEL



LOCALITY PLAN  
NOT TO SCALE

HANSON PLACE, EASTERN CREEK

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div>Consulting Engineers Environment Water Geotechnical Civil</div></div> <div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div>	DRAWING TITLE				
C	MINOR AMENDMENT	23/07/2021	LL/JJS	EZ	SL	JF		---	---	JF	HANSON CONSTRUCTION MATERIALS		<div>COVER SHEET</div>				
B	MINOR AMENDMENT	19/02/2021	LL	SS/LL	SL	JF											
A	INITIAL RELEASE	04/02/2021	LL	SS/LL	SL	JF											
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A1 / A3 LANDSCAPE [A3] v02.001													PROJECT NO. P1806739 PLANSET NO. PS02 RELEASE NO. R06 DRAWING NO. PS02-A000 REVISION C				

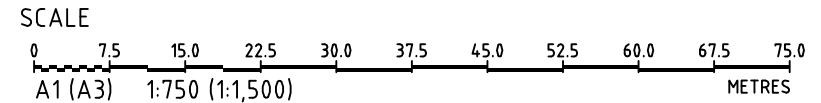
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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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A	INITIAL RELEASE	04/02/2021	LL	SS/LL	SL	JF



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PROJECT NAME/PLANSET TITLE
HANSON CONCRETE RECYCLING FACILITY
CONCEPT DRAINAGE PLAN
HANSON PLACE, EASTERN CREEK

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SEDIMENT & EROSION CONTROL PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806739	PS02	R06	PS02-B300	B

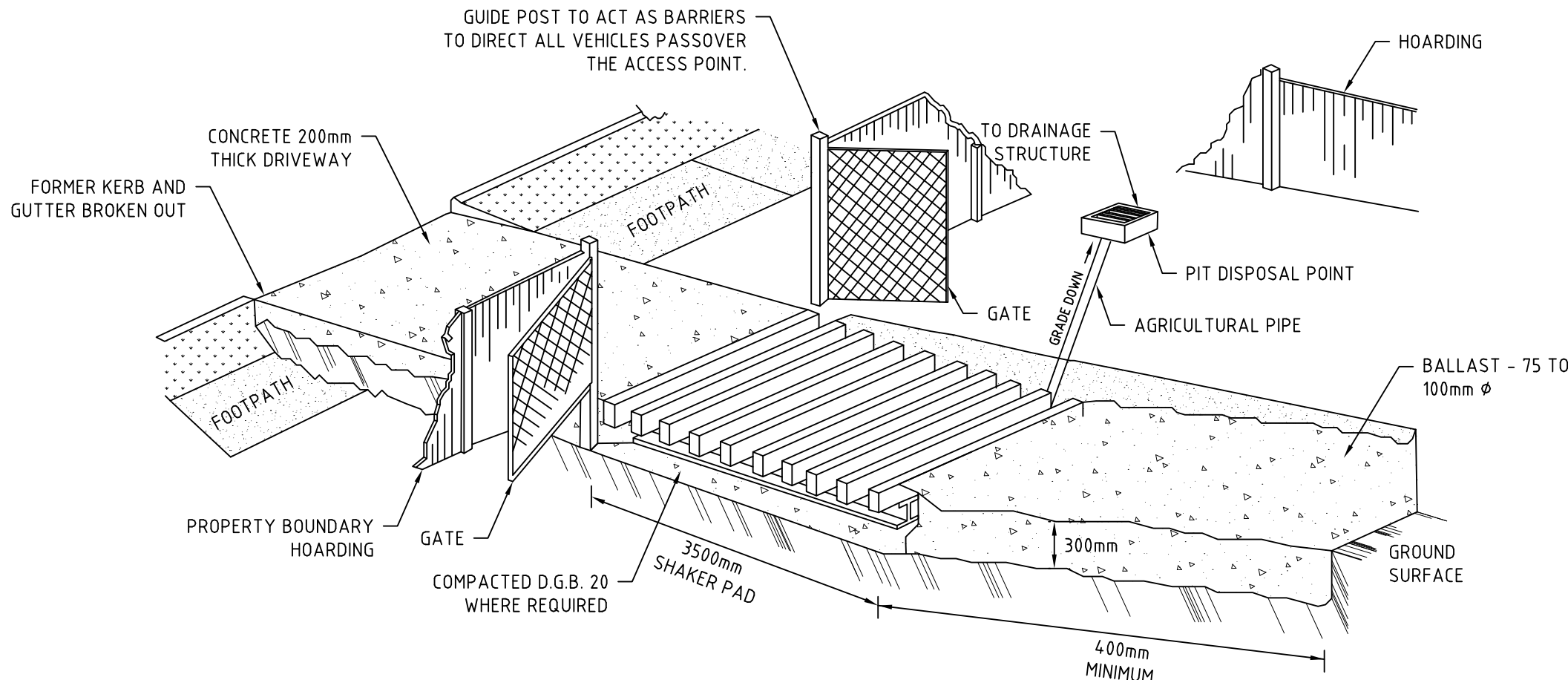


## STABILISED ACCESS POINT

### TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

#### STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:

- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
- CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

## SHAKER PAD (CATTLE GRID)

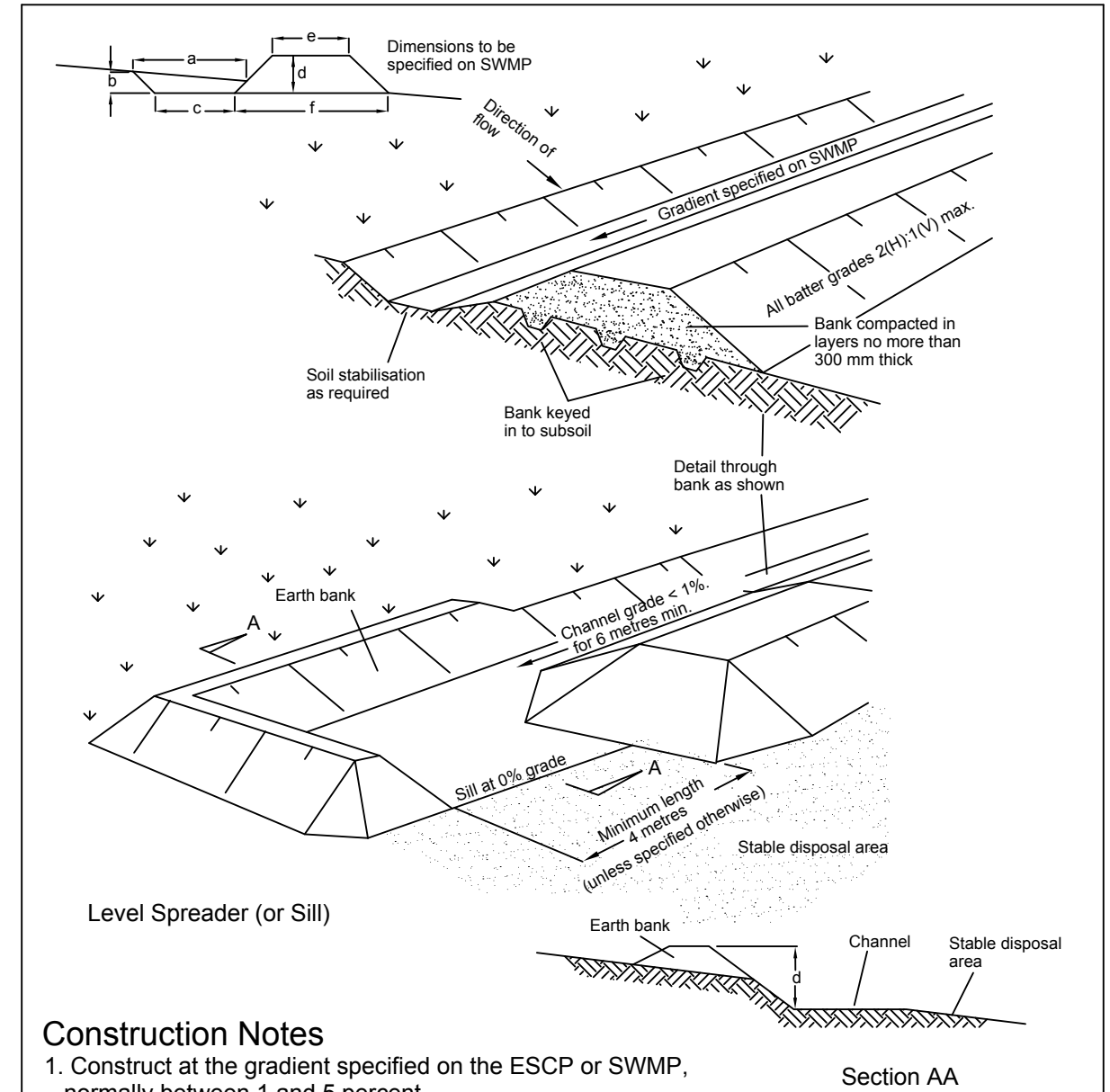
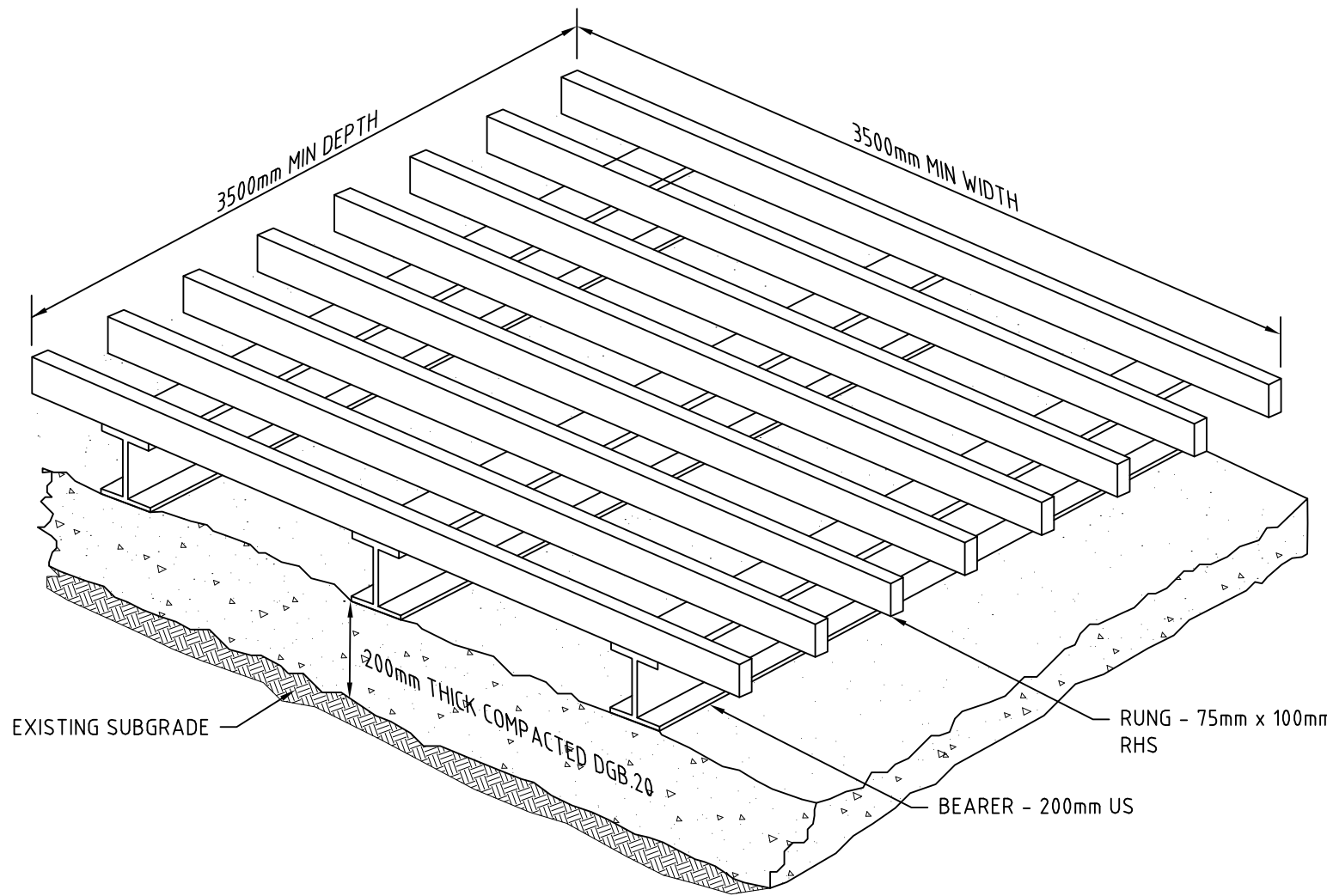
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFER FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S)

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTISING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5m IN LENGTH.
- MUST BE A MINIMUM OF 3.5m IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

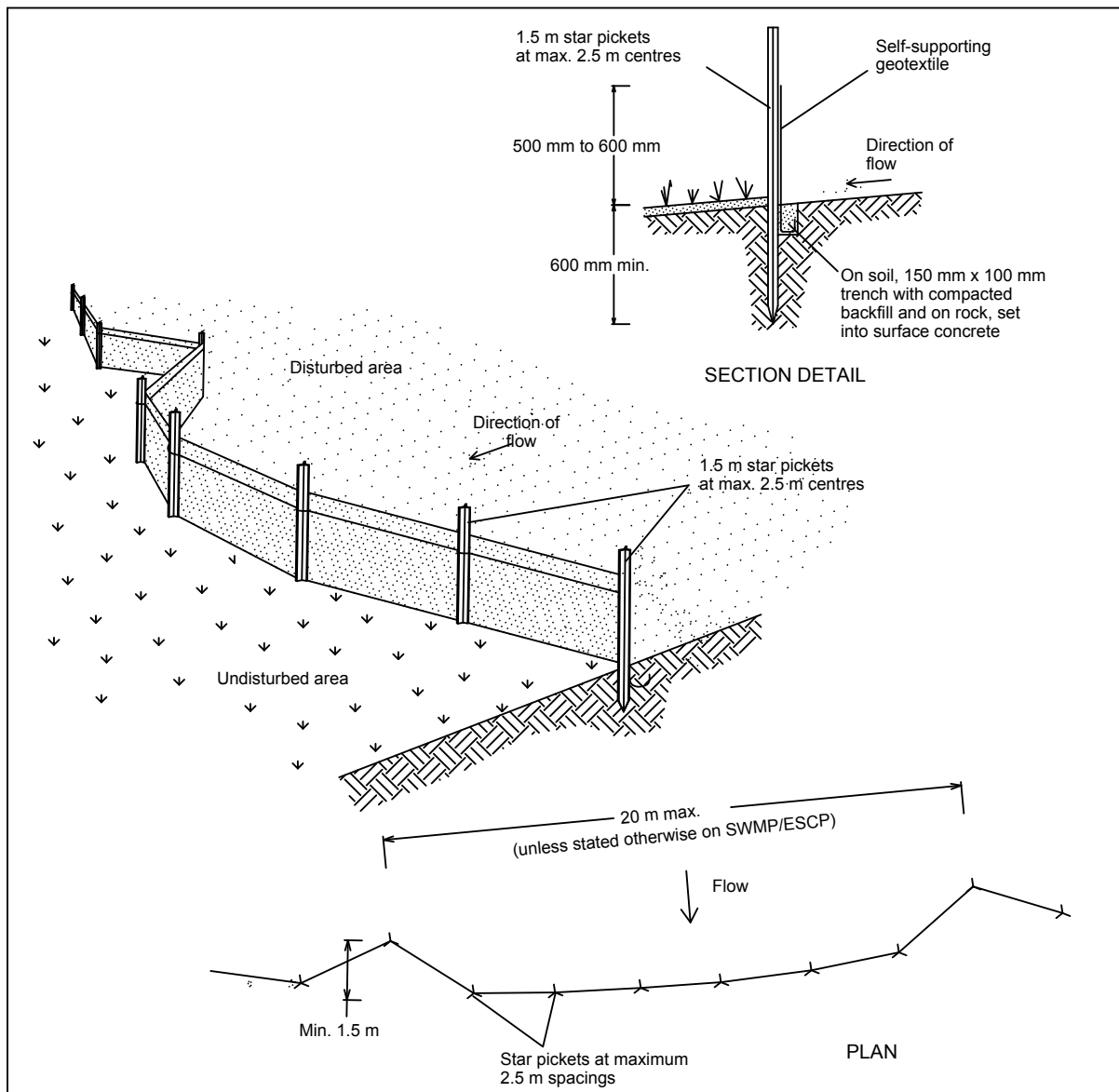
THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYERS OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.



#### Construction Notes

- Construct at the gradient specified on the ESCP or SWMP, normally between 1 and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V-shaped, at the dimensions shown on the SWMP.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
- Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
- Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
- Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

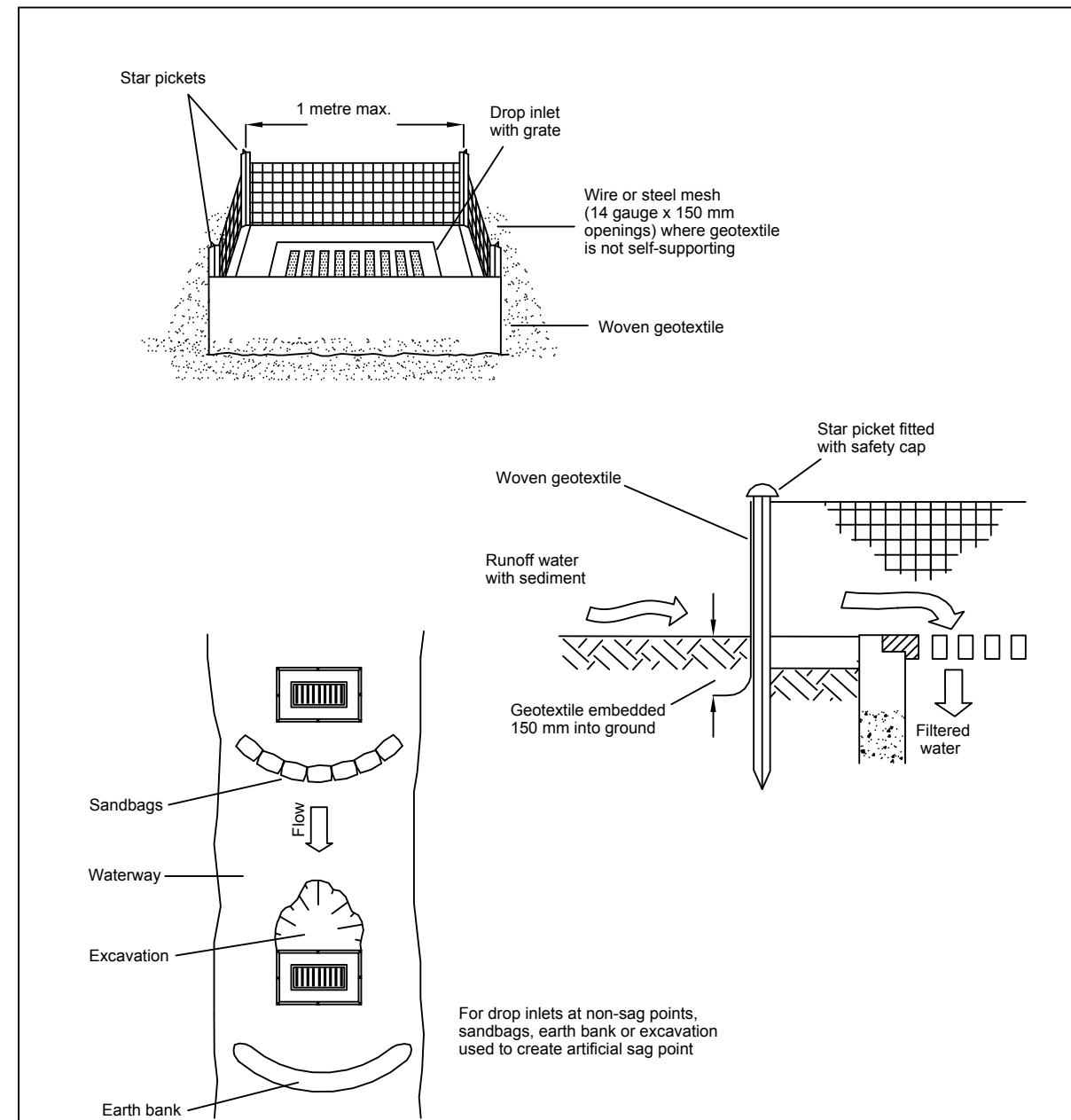
EARTH BANK (HIGH FLOWS) SD 5-6



#### Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

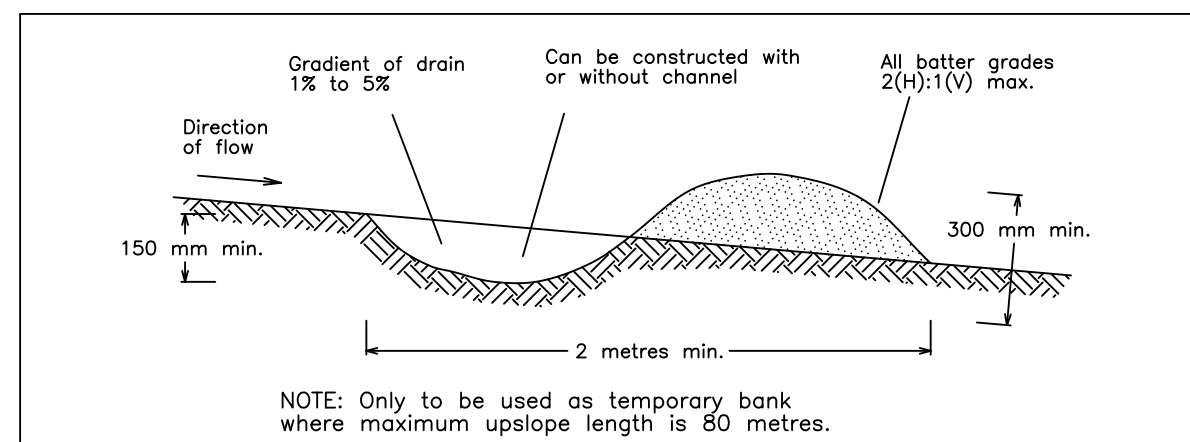
SEDIMENT FENCE SD 6-8



#### Construction Notes

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

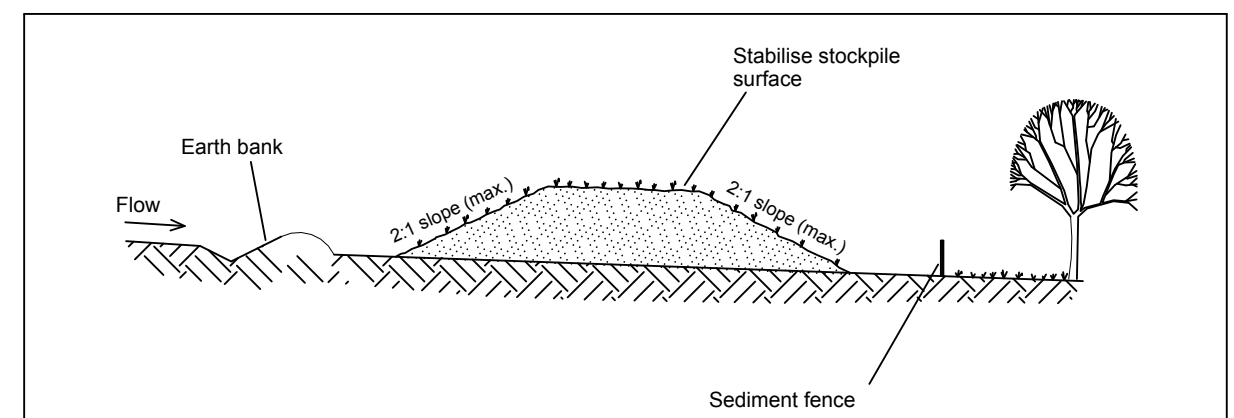
GEOTEXTILE INLET FILTER SD 6-12



#### Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) SD 5-5



#### Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES SD 4-1

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE
A	INITIAL RELEASE	04/02/2021	LL	SS/LL	SL	JF	

AT / A3 LANDSCAPE (A1L\_C\_02.0.01)

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DRAWING TITLE				
SEDIMENT & EROSION CONTROL DETAILS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806739	PS02	R06	PS02-B310	A

DRAWING ID: P1806739-PS02-R06-B310

0 5 10 15 20 25 30 35 40 45 50

SSDA





NOTE:  
1. ALL PIT AND PIPE LOCATIONS & SIZES ARE PRELIMINARY ONLY AND ARE SUBJECT TO CHANGE AT CC STAGE.  
2. PIT SURFACE LEVELS ARE TO BE CONFIRMED AT CC STAGE.  
3. EXISTING STORM WATER SYSTEM ON HANSON PLACE ARE BASED ON WAE PLAN (C431 TO C434) PROVIDED BY HANSON.  
4. EXISTING CONTOURS & SURVEY HEIGHTS ARE BASED ON CIVIL PACKAGE PLAN (C010726.13) PROVIDED BY HANSON.  
5. ROOF DRAINAGE AND INTERNAL DRAINAGE OF PROPOSED BUILDING ON LOT 5 TO BE PROVIDED BY OTHERS AT CC STAGE.

KEY	
PROPOSED STORMWATER PIPELINE	
EXISTING STORMWATER PIPELINE	
PROPOSED SWALE	
PROPOSED SURFACE INLET PIT	
EXISTING SURFACE INLET PIT	
FLOW DIRECTION	
PIT NAME	1A501-03
SITE BOUNDARY	

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
C	MINOR AMENDMENT	23/07/2021	LL/JS	EZ	SL	JF
B	MINOR AMENDMENT	19/02/2021	LL	SS/LL	SL	JF
A	INITIAL RELEASE	04/02/2021	LL	SS/LL	SL	JF

SCALE
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A1 (A3) 1:500 (1:1,000)

GRID	DATUM	PROJECT MANAGER	CLIENT
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CONCEPT DRAINAGE PLAN
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DRAWING TITLE				
DRAINAGE PLAN SHEET 1				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806739	PS02	R06	PS02-E100	C

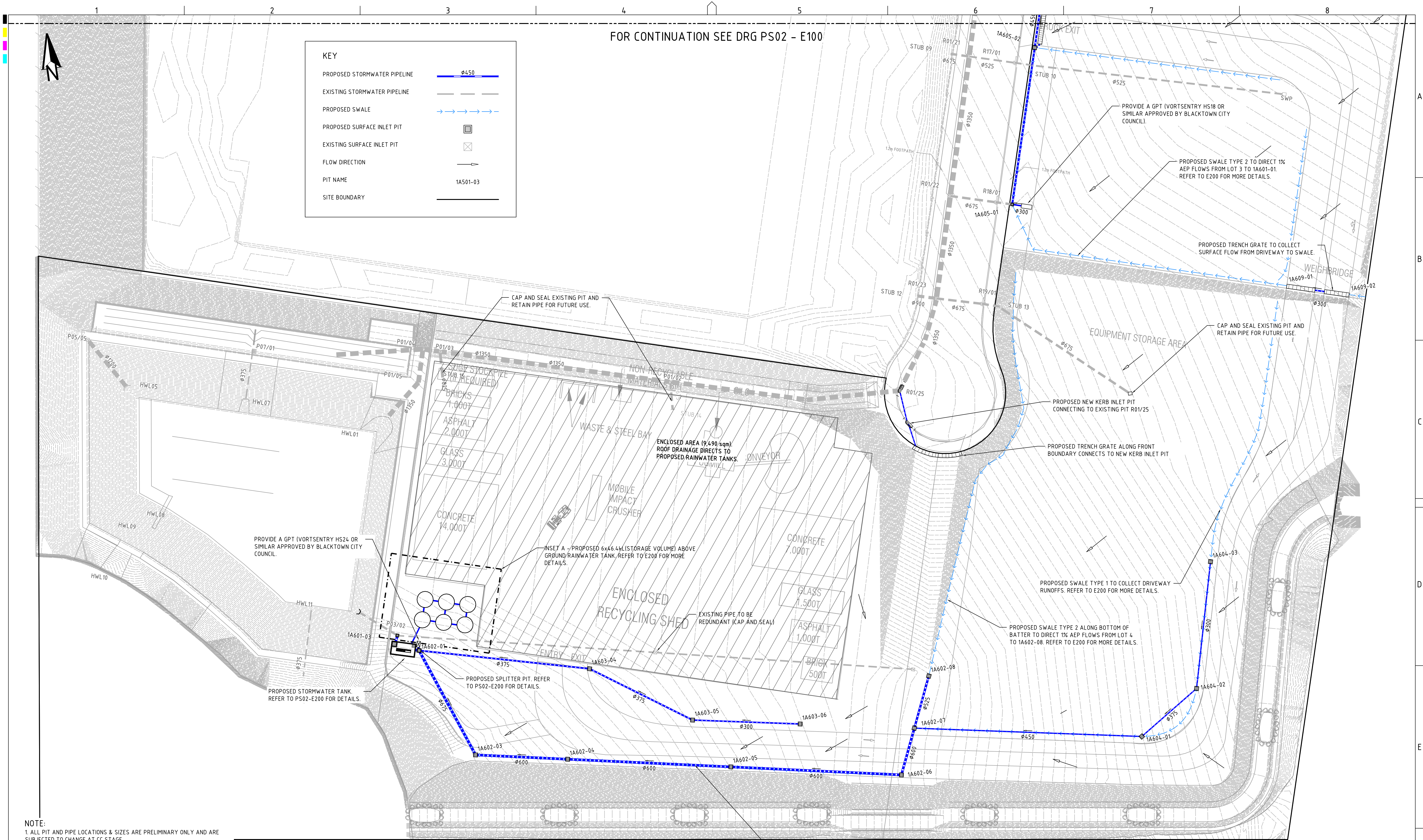
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A1 / A3 LANDSCAPE (A1L\_C\_02.0.01)

DRAWING ID: P1806739-PS02-R06-E100

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	MINOR AMENDMENT	23/07/2021	LL/JS	EZ	SL	

SCALE

0 5 10 15 20 25 30 35 40 45 50

A1 (A3) 1:500 (1:1,000) METRES

GRID

DATUM

PROJECT MANAGER

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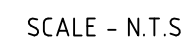
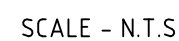
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DRAWING TITLE				
DRAINAGE PLAN SHEET 2				
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P1806739	PS02	R06	PS02-E101	A

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SCALE - N.T.S

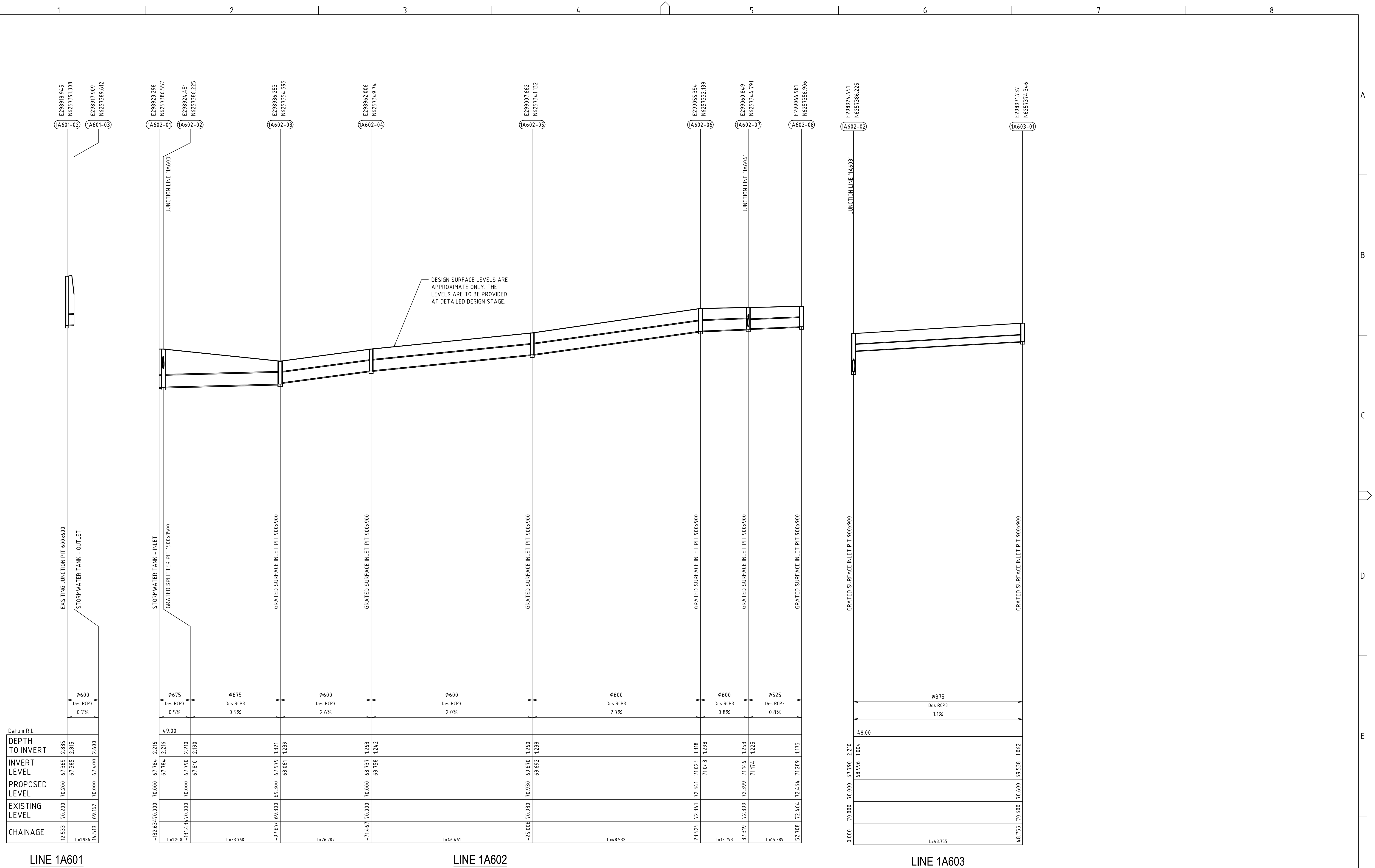
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LINE 1A601

LINE 1A603

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B	MINOR AMENDMENT	23/07/2021	LL/JS	EZ	SL	JF		MGA	mAHD	JF	HANSON CONSTRUCTION MATERIALS						
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												PROJECT NO. PLANSET NO. RELEASE NO. DRAWING NO. REVISION P1806739 PS02 R06 PS02-E300 B					



LINE 1A603 LINE 1A604 LINE 1A605

NOTE:  
- ALL PIPE LEVELS AND CLASSES TO BE CONFIRMED AT DETAILED DESIGN STAGE.

[illegible]

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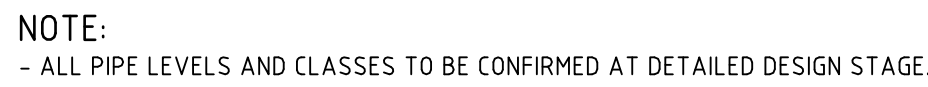
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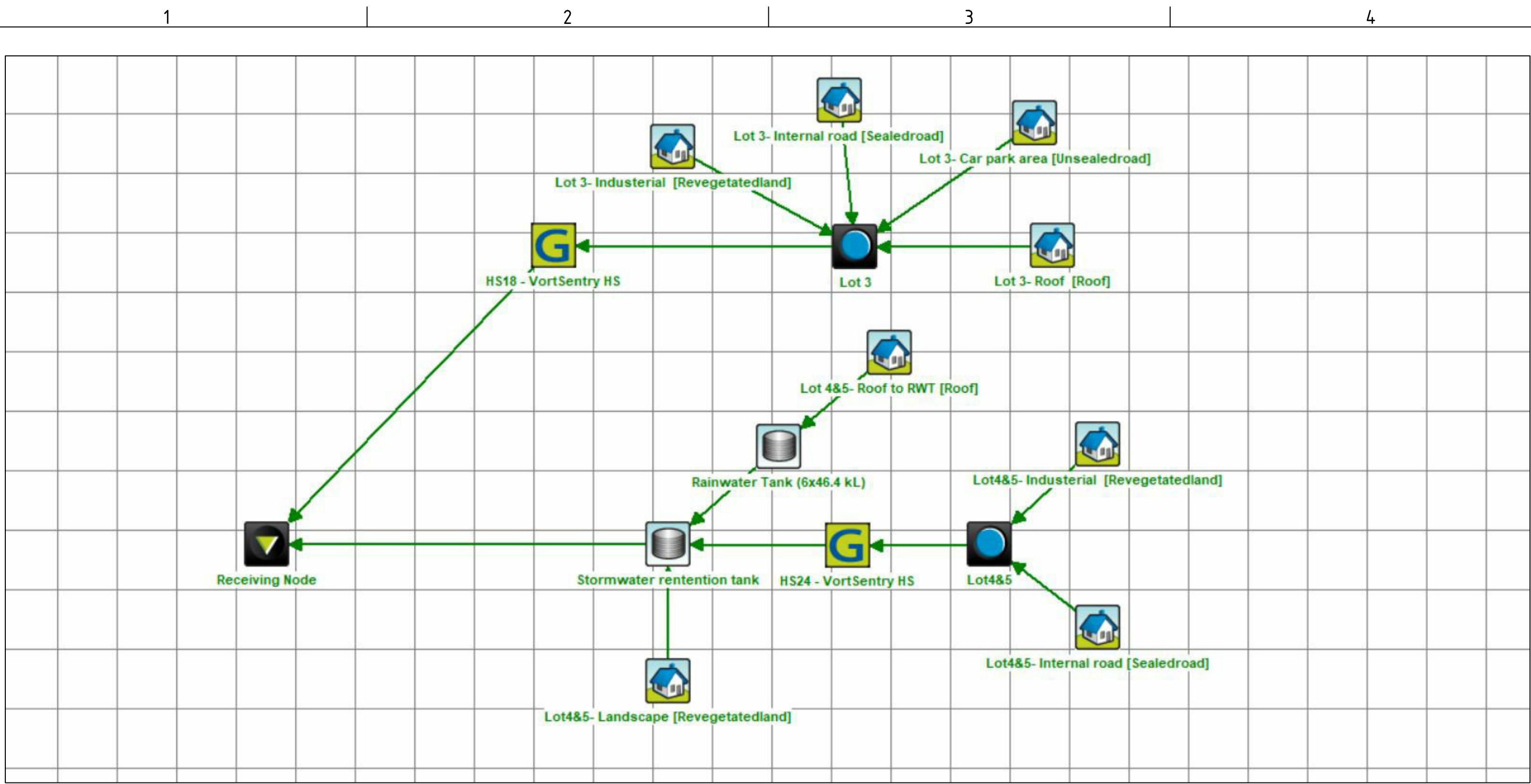
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DRAINAGE LONGITUDINAL SECTIONS (SHEET 2)				
PROJECT NO. P1806739	PLANSET NO. PS02	RELEASE NO. R06	DRAWING NO. PS02-E301	REVISION B

# SSDA

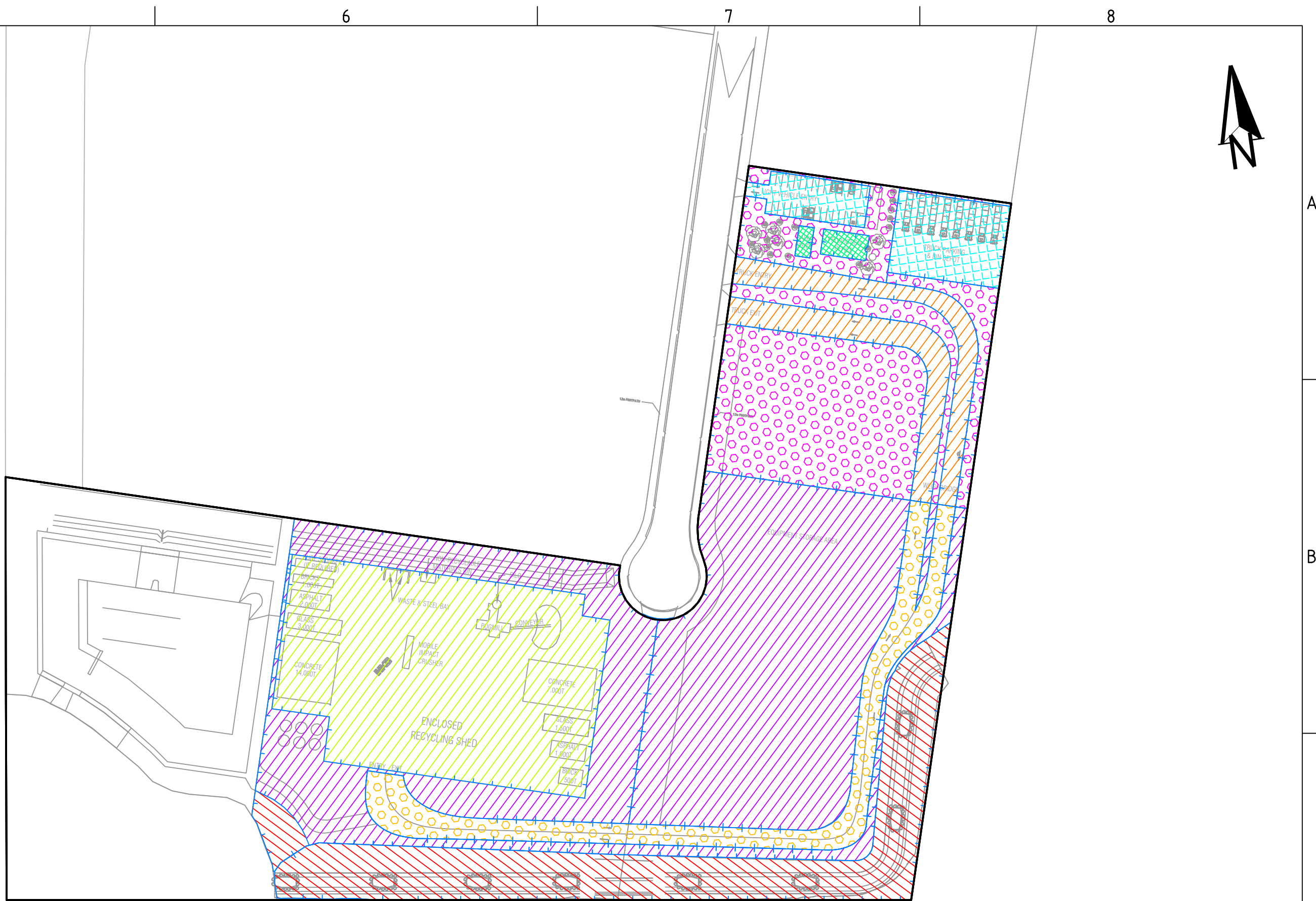


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MUSIC MODELLING LAYOUT (P1806739MUS04V01)



MUSIC MODELLING CATCHMENTS FOR THE SITE

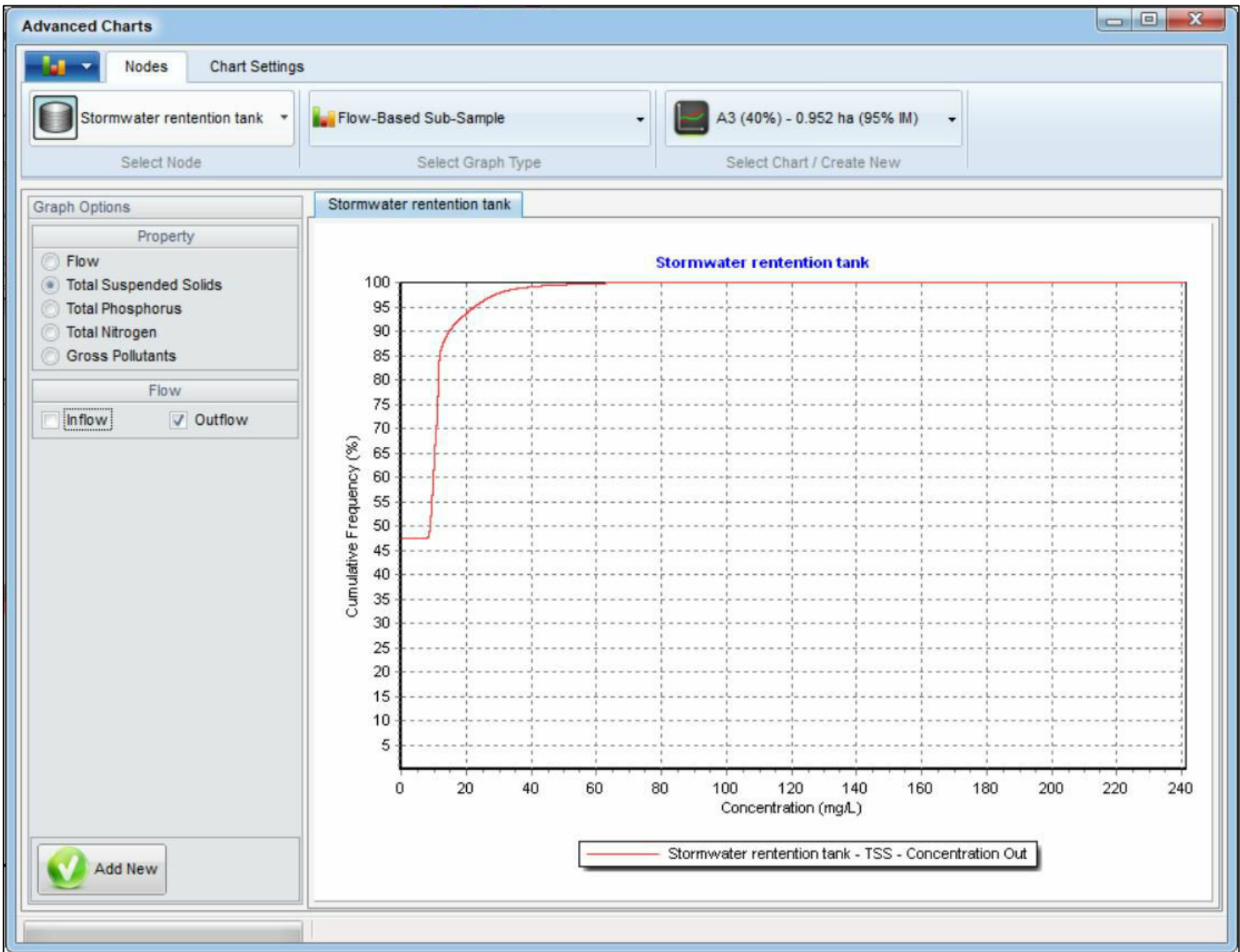
MUSIC CATCHMENTS (P1806739MUS04V01)

THE SITE (LOT 3, 4 & 5)

KEY	DESCRIPTION	MUSIC NODE TYPE	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	LOT 4&5 - INDUSTRIAL	REVEGETATED LAND	1.841	0%	BLACKTOWN CITY COUNCIL WSUD
	LOT 4&5 - INTERNAL ROAD	SEALED ROAD	0.340	100%	BLACKTOWN CITY COUNCIL WSUD
	LOT 4&5 - ROOF TO RWT	ROOF	0.949	100%	BLACKTOWN CITY COUNCIL WSUD
	LOT 4&5 - LANDSCAPE	REVEGETATED LAND	0.655	0%	BLACKTOWN CITY COUNCIL WSUD
	LOT 3 - INDUSTRIAL	REVEGETATED LAND	0.738	0%	BLACKTOWN CITY COUNCIL WSUD
	LOT 3 - INTERBAL ROAD	SEALED ROAD	0.264	100%	BLACKTOWN CITY COUNCIL WSUD
	LOT 3- CAR PARK AREA	UNSEALED ROAD	0.189	100%	BLACKTOWN CITY COUNCIL WSUD
	LOT 3 - ROOF	ROOF	0.025	100%	BLACKTOWN CITY COUNCIL WSUD
TOTAL AREA			5.00	= 100% OF TOTAL AREA	
TOTAL IMPERVIOUS AREA			1.77	= %35 OF TOTAL AREA	
TOTAL PERVIOUS AREA			3.23	= %65 OF TOTAL AREA	

REST OF THE ESTATE (P1806739MUS04V01)

KEY	DESCRIPTION	MUSIC NODE TYPE	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	INDUSTRIAL	UNSEALED ROAD	20.24	90%	BLACKTOWN CITY COUNCIL WSUD
TOTAL AREA			20.24	= 100% OF TOTAL AREA	
TOTAL IMPERVIOUS AREA			18.22	= %90 OF TOTAL AREA	
TOTAL PERVIOUS AREA			2.02	= %10 OF TOTAL AREA	



NOTE:

- MUSIC MODEL IS USED FOR WATER BALANCE ASSESSMENT ONLY. THE EXISTING ESTATE STORMWATER QUALITY TREATMENT SYSTEM (REGIONAL FACILITY) THAT SERVES THE SITE WHICH MEETS THE GROWTH CENTRES POLLUTANT REDUCTION TARGETS OF TSS, TP AND TN. NO FURTHER STORMWATER QUALITY MODELLING IS REQUIRED FOR TSS, TP AND TN. REFER TO MA REPORT P1806739JR03 FOR MORE DETAILS.

- ACCORDING TO AUSTRALIAN GUIDELINE FOR WATER RECYCLING: STORMWATER HARVESTING AND REUSE (2009), THE WATER QUALITY OBJECTIVES FOR REUSE OF STORMWATER FOR DUST SUPPRESSION INCLUDE:

- TURBIDITY: <25 NTU (EQUIVALENT TO 8.33 mg/L (MEDIAN)
- <100 NTU (EQUIVALENT TO 33.33 mg/L (95th PERCENTILE)
- E. COLI: <100 NTU

AS SHOWN IN FIGURE ABOVE, THE WATER QUALITY OBJECTIVES FOR TURBIDITY IS ACHIEVED.

- TURBIDITY: 0 < 8.33 mg/L (MEDIAN)
- 20< 33.33 mg/L (95th PERCENTILE)

AS THE WASTEWATER RECYCLING IS NOT PROPOSED FOR THE SITE, THE OBJECTIVE FOR E.COLI IS CONSIDERED ACHIEVED. THEREFORE, THE STORMWATER COLLECTED IN STORMWATER RETENTION TANK IS FIT FOR REUSE FOR DUST SUPPRESSION.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	23/07/2021	LL/JS	EZ	SL	JF
C	MINOR AMENDMENT	04/02/2021	LL	SS	SL	JF
B	MINOR AMENDMENT	20/11/2020	JS	SS	SL	JF
A	INITIAL RELEASE	03/09/2020	RK	SS	SL	JF

SCALE  
0 15 30 45 60 75 90 105 120 135 150  
A1 (A3) 1:1,500 (1:3,000) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	JF	HANSON CONSTRUCTION MATERIALS
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PROJECT NAME/PLANSET TITLE
HANSON CONCRETE RECYCLING FACILITY
CONCEPT DRAINAGE PLAN
HANSON PLACE, EASTERN CREEK

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DRAWING TITLE				
WATER BALANCE CATCHMENT PLAN & MODEL				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806739	PS02	R06	PS02-E700	D

DRAWING ID: P1806739-PS02-R06-E700