A9 Crubenmore to Kincraig

Overview of Environmental Assessment Part 2

Drawing No.	Drawing Type	Drawing Title	Projectwise Drawing Reference	Software
6.13	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0019	CAD
6.14	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0020	CAD
6.15	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0021	CAD
6.16	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0022	CAD
6.17	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0023	CAD
6.18	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0028	CAD
6.19	ENVIRONMENTAL MITIGATION	INDICATIVE MITIGATION CROSS SECTIONS	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0029	CAD
6.20	ENVIRONMENTAL MITIGATION	INDICATIVE SUDS MITIGATION	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0024	CAD
6.21	ENVIRONMENTAL MITIGATION	INDICATIVE SUDS MITIGATION	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0025	CAD
6.22	ENVIRONMENTAL MITIGATION	INDICATIVE SUDS MITIGATION	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0026	CAD
6.23	ENVIRONMENTAL MITIGATION	INDICATIVE SUDS MITIGATION	A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0027	CAD



to Chapter 13 of the ES). LMA Boundary LMA Boundary Highland Main Line railway Grassland to proposed SuDS basin 417 Existing Woodland Existing Grass/Shrub Existing Woodland Native Woodland Proposed A9 Native Woodland Dry Heath Existing Heath Track and Deer Fencing Existing ground level Existing ground level Cross Section A-A' (ch.41,800) Scale 1:500 LMA Boundary Boundary Line railway Existing Ralia Access
Trees Road and **Existing Woodland** Existing Ralia Car Park Existing Woodland Road and Verge Native Woodland **Existing Native Woodland** Retain existing birch / rowan tree planting with remaining embankment where possible Dry Stone Wall Faced Retaining Wall Cross Section B-B' (ch.42,300) Scale 1:500 REV SUIT LMA Boundary House | | Existing | Native | Proposed A9 | Native Woodland | Wet Heath | Track | Wet Heath Dry Heath Cross Section C-C' (ch.42,800) Scale 1:500 DATE: 20/04/18

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GENERAL NOTES

- 1. All dimensions in metres unless stated otherwise.
- 2. Natural stone treatment to retaining walls subject to detailed design as additional mitigation.

The detailed landform specification covers two levels of treatment (Refer

- 3. Level 2 Landform specification to consider top and toe rounding, tapering and long section variability.
- 4. Level 3 Includes specific locations within landform sensitive areas that will require a detailed specification of significant variation for particularly sensitive, highly visible slopes.
- 5. Steepening of slopes generally has been undertaken to minimise the environmental footprint of the proposed scheme within particularly sensitive areas, therefore reducing any associated impacts and habitat loss where practicable.
- 6. Otter / deer / combined (deer / otter) environmental fencing not shown to scale, illustrative graphic only.

P02 S3 23-08-18 FINAL REVISIONS SDR JF P01 S3 26-07-18 DESIGN UPDATE SDR JF



DESCRIPTION

CH2M HILL Fairhurst JV

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DATE



PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.13 - INDICATIVE MITIGATION CROSS SECTIONS

DESIGN:	DRAWN:	CHK:	APP:
ER/DB	SDR	SWG	JF

SCALE AS SHOWN

PROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0019 SHEET: 1 of 7 REVISION: C01 SUITABILITY: A3

LMA Boundary LMA Boundary Northbound Newtonmore Southbound Newtonmore Junction Slip and Verges Junction Slip and Verges **Existing Property** Native Woodland Curtilage Woodland SuDS Basin 434 Existing ground level ground level D Cross Section D-D' (ch.43,350) Scale 1:1000 LMA Boundary Existing Grass **Existing Woodland** Dry Heath Existing Dry Heath Native Proposed A9 Native Woodland Rock cut back to natural facing Rock trap / swale Cross Section E-E' (ch.43,700) Scale 1:500 LMA Boundary Access
Shrub Track Dry Heath Proposed A9 **Existing Heath** Native Woodland Grassland Grassland Existing Woodland Existing ground level Deer Fencing Cross Section F-F' (ch.46,000) Scale 1:500 Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office, © Crown copyright and database right 2018.

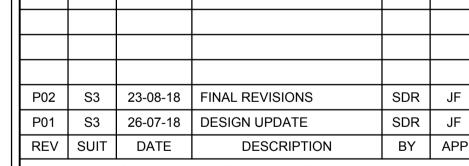
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GENERAL NOTES

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The detailed landform specification covers two levels of treatment (Refer to Chapter 13 of the ES).

- 3. Level 2 Landform specification to consider top and toe rounding, tapering and long section variability.
- 4. Level 3 Includes specific locations within landform sensitive areas that will require a detailed specification of significant variation for particularly sensitive, highly visible slopes.
- 5. Steepening of slopes generally has been undertaken to minimise the environmental footprint of the proposed scheme within particularly sensitive areas, therefore reducing any associated impacts and habitat loss where practicable.
- 6. Otter / deer / combined (deer / otter) environmental fencing not shown to scale, illustrative graphic only.





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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.14 - INDICATIVE MITIGATION CROSS SECTIONS

DESIGN:	DRAWN:	CHK:	APP:		
ER/DB	SDR	SWG	JF		

SCALE AS SHOWN

DATE: 20/04/18

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0020 SHEET: 2 of 7 REVISION: C01 SUITABILITY: A3

LMA Boundary Native Woodland | Access | Shrub **Existing Grassland** Grassland Access Grassland Proposed A9 **Existing Grassland** Track and and Verges Verges Deer Fencing Existing ground level Deer Fencing G

Cross Section G-G' (ch.46,500) Scale 1:500

LMA Boundary Shrub Planting Native Woodland ground level 4m High Vegetated
Acoustic Barrier Deer Fencing

Cross Section H-H' (ch.48,500)

Scale 1:500

LMA Boundary **Existing Woodland** Grassland to SuDS Proposed A9 Grassland Existing ground level Deer Fencing Deer Fencing

Cross Section J-J' (ch.49,000) Scale 1:500

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to Chapter 13 of the ES).

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The detailed landform specification covers two levels of treatment (Refer

- 3. Level 2 Landform specification to consider top and toe rounding, tapering and long section variability.
- 4. Level 3 Includes specific locations within landform sensitive areas that will require a detailed specification of significant variation for particularly sensitive, highly visible slopes.
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P02 S3 23-08-18 FINAL REVISIONS SDR JF P01 S3 26-07-18 DESIGN UPDATE SDR JF DESCRIPTION



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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.15 - INDICATIVE MITIGATION CROSS SECTIONS

DESIGN:	DRAWN:	CHK:	APP:
ER/DB	SDR	SWG	JF

SCALE AS SHOWN

DATE: 20/04/18

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0021

SHEET: 3 of 7 REVISION: C01 SUITABILITY: A3

LMA Boundary Grassland to SuDS Basin 493 Native Woodland Native Woodland Proposed A9 Grassland Existing ground level Combined Fencing Combined Fencing Cross Section K-K' (ch.49,300) Scale 1:500 LMA Boundary Existing Grassland within Insh Marshes National Nature Reserve Proposed A9 Grassland Grassland Mound on which Ruthven Barracks is located Combined Fencing Combined Fencing Existing ground level Cross Section L-L' (ch.49,540) Scale 1:500 LMA Boundary Kingussie Junction Northbound Northbound on/off Slip Road Kingussie Junction Proposed A9 Highland Main Line railway A86 Road Native Woodland Native Woodland at Glebe Ponds Native Verge within Grassland Cross Section M-M' (ch.50,600) Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office, © Crown copyright and database right 2018. All rights reserved. Ordnance Survey Licence Number: 100046668.

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P02	S3	23-08-18	FINAL REVISIONS	SDR	JF
P01	S3	26-07-18	DESIGN UPDATE	SDR	JF
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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.16 - INDICATIVE MITIGATION CROSS SECTIONS

_ [APP:	CHK:	DRAWN:	ESIGN:
	JF	SWG	SDR	ER/DB
_ ^				

SCALE AS SHOWN

DATE: 20/04/18

PROJ: 495298 DWG: A9P09-CFJ-EGN-M_ZZZZZ_ZZ-DR-EN-0022

SHEET: 4 of 7 REVISION: C01 SUITABILITY: A3

LMA Boundary

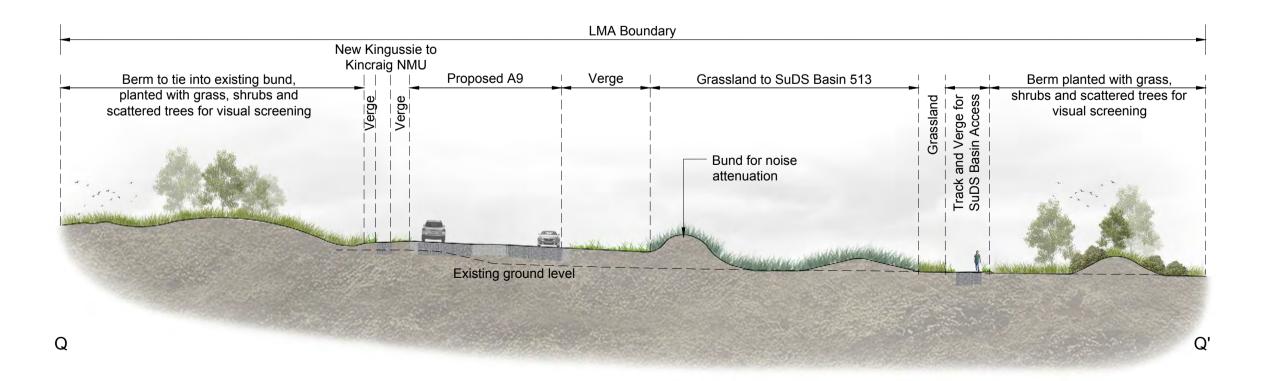
LMA Boundary

Grassland Existing Grassland Existing Woodland Native Woodland Proposed A9 Verge Native Woodland Grassland G

Berm to tie into existing bund, planted with grass, shrubs and scattered trees for visual screening for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening and noise attenuation bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, shrubs and scattered trees for visual screening bund, planted with grass, planted with grass, p

Cross Section P-P' (ch.51,150) Scale 1:500

Scale 1:500



Cross Section Q-Q' (ch.51,300) Scale 1:500

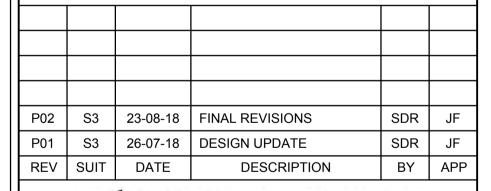
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GENERAL NOTES

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PROPOSED SCHEME PLAN
DRAWING 6.17 - INDICATIVE
MITIGATION CROSS SECTIONS

DESIGN:	DRAWN:	CHK:	APP:
ER/DB	SDR	SWG	JF

SCALE AS SHOWN

DATE: 20/04/18

ROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZ_ZZ-DR-EN-0023

SHEET: 5 of 7 REVISION: C01 SUITABILITY: A3

23 A3

LMA Boundary Native Woodland | | Verge | Shrub Existing

Planting Grassland Existing Grassland Grassland Proposed A9 Souterrain location Double retaining wall 9m height above hard shoulder Cross Section R-R' (ch.52,100) Scale 1:500 LMA Boundary 3m High Vegetated Acoustic Barrier / Deer Fencing Deer Fencing Cross Section S-S' (ch.52,500) Scale 1:500 LMA Boundary Balavil Existing Grass and
House Mature Trees Existing Grassland and Mature Trees Retaining wall 2.5m height above back of verge topped by 1.2m high stock fence for safety reasons. Cross Section T-T' (ch.53,900) Scale 1:1000 Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office, © Crown copyright and database right 2018.

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- 4. Level 3 Includes specific locations within landform sensitive areas that will require a detailed specification of significant variation for particularly sensitive, highly visible slopes.
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P02	S3	23-08-18	FINAL REVISIONS	SDR	JF
P01	S3	26-07-18	DESIGN UPDATE	SDR	JF
REV	SUIT	DATE	DESCRIPTION	BY	APP



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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.18 - INDICATIVE MITIGATION CROSS SECTIONS

DESIGN:	DRAWN:	CHK:	APP:	1	
ER/DB	SDR	SWG	JF	1	
0041540011014					

SCALE AS SHOWN

DATE: 20/04/18

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0028

SHEET: 6 of 7 REVISION: C01 SUITABILITY: A3

LMA Boundary Existing Woodland/Scrub **Existing Grassland** Native Woodland Proposed A9 Existing Woodland/Scrub U Cross Section U-U' (ch.54,880) Scale 1:1000 LMA Boundary Native Existing Highland
Woodland/Scrub Main Line **Existing Grass** Proposed A9 Southbound Shrub Planting Existing **Existing Grass** Woodland railway Cross Section V-V' (ch.55,900) Scale 1:500 Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office, © Crown copyright and database right 2018.

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P02 S3 23-08-18 FINAL REVISIONS SDR JF P01 S3 26-07-18 DESIGN UPDATE SDR JF REV SUIT DATE DESCRIPTION



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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA PROPOSED SCHEME PLAN DRAWING 6.19 - INDICATIVE MITIGATION CROSS SECTIONS

ESIGN:	DRAWN:	CHK:	APP:
ER/DB	SDR	SWG	JF

SCALE AS SHOWN

DATE: 20/04/18

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0029

SHEET: 7 of 7 REVISION: C01 SUITABILITY: A3

Plan - SuDS 493 - Typical Design within a sensitive landscape and ecological context

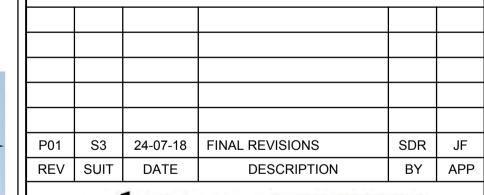
Existing Woodland (Retained) Maintenance access track Wet grassland within basin. As vegetation establishes, aquatic species will emerge and create a basin that represents a natural feature with good visual amenity as well as biodiversity value Proposed A9 Native woodland Grassland and verge Fence CPO

Cross Section Section A-A' (SuDS 493) Scale 1:200

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- 2. Basin to have a natural plan profile, aligned with existing contours where possible and resembling natural geological features that can be found in this landscape.
 - Basin to have a natural slope profile where below existing ground level, internal and external slopes should achieve gradients of 1:4 or shallower where space allows.
- Inlets and outlets should use natural rock to create cascades, which have a 'natural' appearance.
- Existing soils and herb layer should be stockpiled and re-used during the construction of the basin, where possible, detailed design for seeding and planting should consider appendix 6.1 and the chapter 6 Environmental Mitigation drawings 6.1-6.12.





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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA DMRB STAGE 3 DRAWING 6.20 - INDICATIVE **SUDS MITIGATION**

DESIGN:	DRAWN:	CHK:	APP:
ER	SDR	SWG	JF
			-

SCALE AS SHOWN

DATE: 25/04/18

PROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0024 SHEET: 1 of 4 REVISION: C01 SUITABILITY: A3

Plan - SuDS 509 - Typical Design within a woodland / scrub context Scale 1:500

Wet grassland within basin. As vegetation establishes, aquatic species will emerge and create a basin that represents a natural feature with good visual amenity as well as biodiversity value Grass verge Existing B9152 Proposed A9 Native woodland CPO Boundary

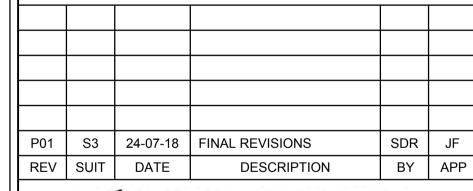
Maintenance Access Lay-by

Cross Section Section B-B' (SuDS 509) Scale 1:200

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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA DMRB STAGE 3 DRAWING 6.21 - INDICATIVE **SUDS MITIGATION**

DESIGN:	DRAWN:	CHK:	APP:
ER	SDR	SWG	JF

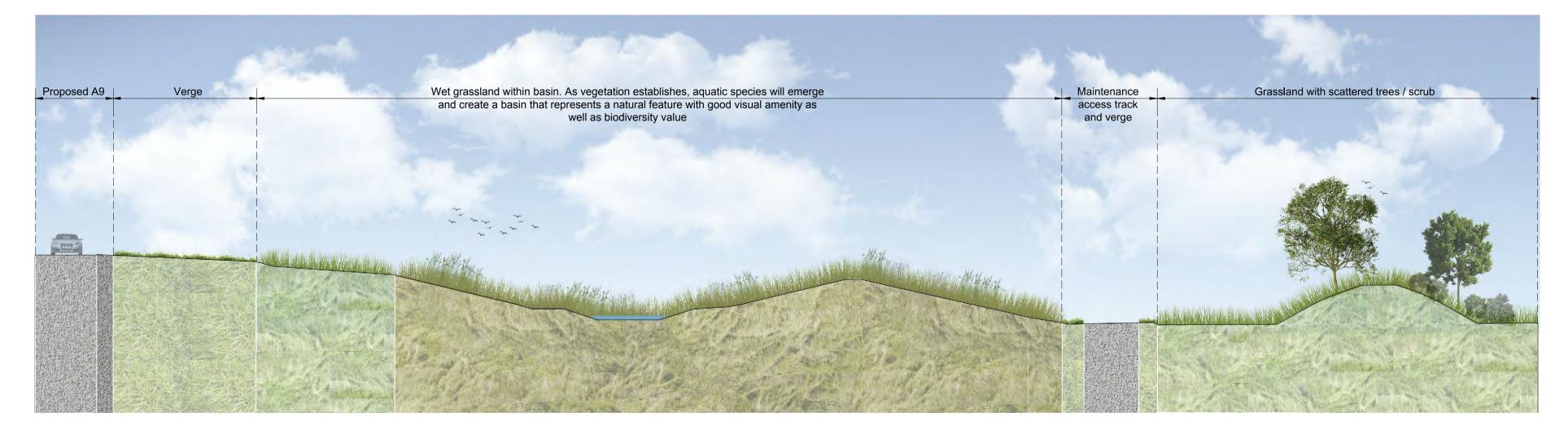
SCALE AS SHOWN

DATE: 25/04/18

PROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0025 SHEET: 2 of 4 REVISION: C01 SUITABILITY: A3

Plan - SuDS 513 - Typical Design within a semi-open grassland / scrub context Scale 1:500

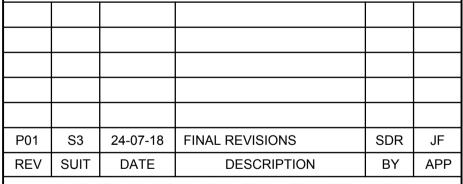


Cross Section Section C-C' (SuDS 513) Scale 1:200

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☐ GENERAL NOTES

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 - 3. Basin to have a natural slope profile where below existing ground level, internal and external slopes should achieve gradients of 1:4 or shallower where space allows.
 - 4. Inlets and outlets should use natural rock to create cascades, which have a 'natural' appearance.
- Existing soils and herb layer should be stockpiled and re-used during the construction of the basin, where possible. detailed design for seeding and planting should consider appendix 6.1 and the chapter 6 Environmental Mitigation drawings 6.1-6.12.





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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA

DMRB STAGE 3

DRAWING 6.22 - INDICATIVE

SUDS MITIGATION

DESIGN:	DRAWN:	CHK:	APP:
ER	SDR	SWG	JF

SCALE AS SHOWN

DATE: 25/04/18

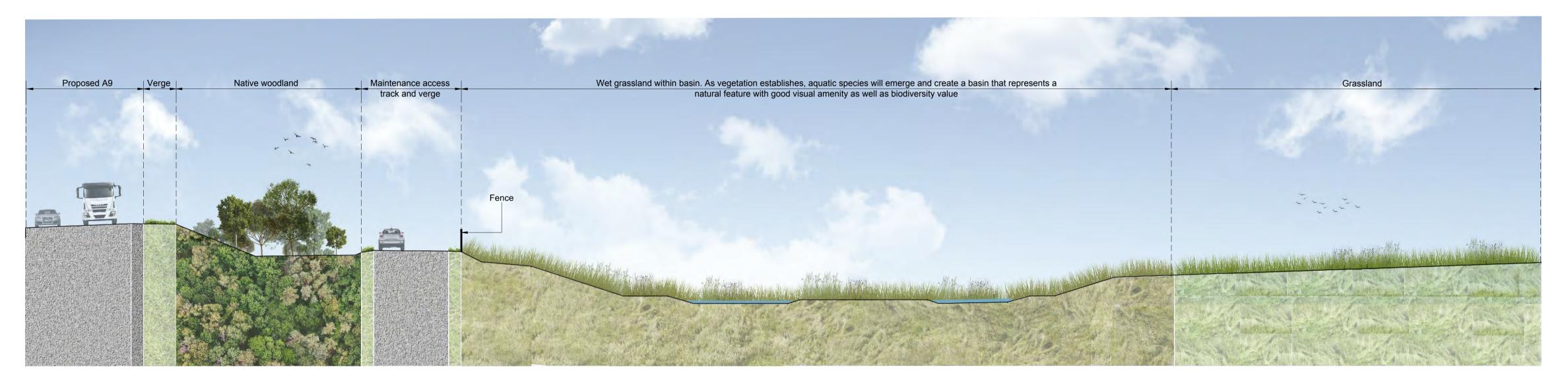
PROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0026

SHEET: 3 of 4 REVISION: C01 SUITABILITY: A3

Plan - SuDS 537 - Typical Design within an open landscape context Scale 1:500

mix appropriate to local context



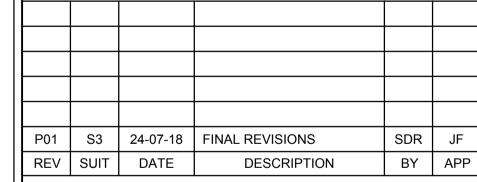
Cross Section Section D-D' (SuDS 537) Scale 1:200

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PROJECT 9 - CRUBENMORE TO KINCRAIG EIA DMRB STAGE 3 DRAWING 6.23 - INDICATIVE **SUDS MITIGATION**

DESIGN:	DRAWN:	CHK:	APP:
ER	SDR	SWG	JF

SCALE AS SHOWN

DATE: 25/04/18 PROJ: 495298

DWG: A9P09-CFJ-EGN-M_ZZZZZZ_ZZ-DR-EN-0027 SHEET: 4 of 4 REVISION: C01 SUITABILITY: A3