### Overview of Environmental Assessment (Part 2)

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Drawing Type</th>
<th>Drawing Title</th>
<th>Projectwise Drawing Reference</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.9</td>
<td>CROSS SECTION</td>
<td>MITIGATION CROSS SECTIONS</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0001</td>
<td>CAD</td>
</tr>
<tr>
<td>6.10</td>
<td>CROSS SECTION</td>
<td>MITIGATION CROSS SECTIONS</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0002</td>
<td>CAD</td>
</tr>
<tr>
<td>6.11</td>
<td>CROSS SECTION</td>
<td>MITIGATION CROSS SECTIONS</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0003</td>
<td>CAD</td>
</tr>
<tr>
<td>6.12</td>
<td>MITIGATION PLAN</td>
<td>INDICATIVE SUDS MITIGATION</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0004</td>
<td>CAD</td>
</tr>
<tr>
<td>6.13</td>
<td>MITIGATION PLAN</td>
<td>INDICATIVE SUDS MITIGATION</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0005</td>
<td>CAD</td>
</tr>
<tr>
<td>6.14</td>
<td>MITIGATION PLAN</td>
<td>INDICATIVE SUDS MITIGATION</td>
<td>A9P08-CFJ-EGN-Z_ZZZZZ_ZZ-DR-LA-0006</td>
<td>CAD</td>
</tr>
</tbody>
</table>
Cross Section A-A' (ch.22,600)
Scale 1:500

Cross Section B-B' (ch.22,600)
Scale 1:500

Cross Section C-C' (ch.22,600)
Scale 1:500
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
2. NATURAL STONE EFFECT TO RETAINING WALL FACING SUBJECT TO DETAILED DESIGN AS ADDITIONAL MITIGATION.
3. NATURAL STONE SPECIFICATION TO CONSIDER TOP AND SIDE MORTISING, TANKING AND LONG SECTION TAPERING.

**LEVEL 1 - LANDFORM SPECIFICATION TO CONSIDER TOP AND SIDE MORTISING, TANKING AND LONG SECTION TAPERING FOR PARTICULARLY SENSITIVE, HIGHLY VISIBLE SLOPES.**

**LEVEL 2 - SPECIFIC LOCATIONS WITHIN LANDFORM SENSITIVE AREA THAT WILL REQUIRE A CUSTOMISED LANDFORM SPECIFICATION TO CONSIDER TOP AND SIDE MORTISING, TANKING AND LONG SECTION TAPERING FOR PARTICULARLY SENSITIVE AREAS, THEREFORE REDUCING ANY ASSOCIATED IMPACTS AND PRESERVING LOCAL LANDSCAPE.**

**LEVEL 3 - INCLUDES SPECIFIC LOCATIONS WITHIN LANDFORM SENSITIVE AREAS THAT WILL REQUIRE A CUSTOMISED LANDFORM SPECIFICATION TO CONSIDER TOP AND SIDE MORTISING, TANKING AND LONG SECTION TAPERING FOR PARTICULARLY SENSITIVE AREAS, THEREFORE REDUCING ANY ASSOCIATED IMPACTS AND PRESERVING LOCAL LANDSCAPE.**

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 PRESERVING LOCAL LANDSCAPE.

6. OTTER / DEER / COMBINED (DEER / OTTER) ENVIRONMENTAL FENCING NOT SHOWN TO SCALE, ILLUSTRATIVE GRAPHIC ONLY.

**Note:**

Landform Sensitive Earthworks refined during detailed design stage to improve landscape fit by the following:

- Variation from a uniform slope
- Evenness of slope
- Rounding top / bottom of slope
- Slope tapers

**Design:**

- CH2M HILL Fairhurst JV
  - C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
  - Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

**Scale 1:500**
1. ALL DIMENSIONS ARE GROUND LEVEL UNLESS STATED OTHERWISE.
2. NATURAL STONE EFFECT TO RETAINING WALL FACING SUBJECT TO DETAILED DESIGN AS ADDITIONAL MITIGATION.

GENERAL NOTES

1. LANDSCAPE SENSITIVE EARTHWORKS REFINED DURING DETAILED DESIGN STAGE TO IMPROVE LANDSCAPE FIT BY THE FOLLOWING:
   - VARIATION FROM A UNIFORM SLOPE
   - EVENNESS OF SLOPE
   - Rounding TOP / BOTTOM OF SLOPE
   - SLOPE TAPERS

2. NATURAL STONE EFFECT TO RETAINING WALL FACING SUBJECT TO DETAILED DESIGN AS ADDITIONAL MITIGATION.

THE DETAILED LANDFORM SPECIFICATION COVERS TWO LEVELS OF TREATMENT.

3. LEVEL 1 - LANDFORM SPECIFICATION TO CONSIDER TOP AND TAIL HORIZONS, TAMARROWS AND LONG SECTION VARIABILITY

4. LEVEL 2 - INCLUSIVE SPECIFIC LOCATIONS WITHIN LANDFORM SENSITIVE AREA THAT WILL REQUIRE A DETAILED LANDFORM SPECIFICATION FOR PARTICULARLY SENSITIVE, HIGHLY VISIBLE SLOPES

5. STREEEPING OF SLOPES GENERALLY HAS BEEN UNDERTAKEN TO MINIMISE THE ENVIRONMENTAL IMPACT OF THE PROPOSED SCHEME WITHIN PARTICULARLY SENSITIVE AREAS, THEREFORE REDUCING ANY ASSOCIATED IMPACTS AND MINIMISING LOSS WHERE PRACTICAL

6. OTTER / DEER / COMBINED (DEER / OTTER) ENVIRONMENTAL FENCING NOT SHOWN TO SCALE, ILLUSTRATIVE GRAPHIC ONLY.

PROJECT 8 - DALWHINNIE TO CRUBENMORE
DMRB STAGE 3
DRAWING 6.11
MITIGATION CROSS SECTIONS

SCALE 1:500 @ A1

Note A:
- Landscape sensitive earthworks refined during detailed design stage to improve landscape fit by the following:
  - Variation from a uniform slope
  - Evenness of slope
  - Rounding top / bottom of slope
  - Slope tapers

See Note A

LANDSCAPE SENSITIVE EARTHWORKS

EXISTING

SUITABILITY

DATE

DESIGN

DRAWN

APP

CHK

CH2M HILL Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office, © Crown copyright and database right 2017. All rights reserved. Ordnance Survey Licence Number: 100046668.
Wet woodland to increase woodland connectivity within this area
Shrub planting to base of bank to blend into SuDS Basin
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
Dry heath on roadside embankment mimicking surrounding groundcover

A A'
Invert Level
Grass lined watercourse

A
A'
Cuaich Underpass
Basin seeded with wet grassland mix appropriate to local context
Gently sloping earthworks within varied slope gradients
Shape of basin 258 responds to its constrained location between A9 and access tracks to the east and west

Pockets of shrub planting to increase woodland connectivity and reinforce east / west green infrastructure
Pockets of woodland and shrub planting to increase woodland connectivity and reinforce east / west green infrastructure
Maintenance access track tying into existing access road

The orientation of basin 259 aligns with the orientation of the Allt Cuaich
Slopes to western side of basin to blend into the slopes that connect to the A9, creating a continuous landform that connects to the wider landscape

Forebay overflow
Inlet headwall and reno mattress
Outlet headwall and reno mattress
Inlet headwall and reno mattress
Grass lined channel to watercourse

PROJECT 8 - DALWHINNE TO CRUBENMORE
DMRB STAGE 3
DRAWING 6.12 - INDICATIVE
SUDS MITIGATION

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.
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.
Wet heath to mimic existing habitat types within this open landscape.

B basin planted with wet grassland as vegetation establishes, a mixed and biodiverse planting community will develop.

Maintenance access track

Proposed A9 planted with heath and grassland to tie into existing landscape type.

Temporary top water level

Micropool level

Basin seeded with wet grassland mix appropriate to local context.

Seeding to consist of wet heath and wet grassland with some scattered trees surrounding proposed SuDS basin to mimic surrounding open landscape context.

Maintenance vehicle turning head

Cross Section Section B-B' (SuDS 282)

Scale 1:200

Plan - SuDS 282 - Typical Design with in an Open Heath / Grassland Context

Scale 1:500

PROJECT 8 - DALWHINNIE TO CRUBENMORE
DMRB STAGE 3
DRAWING 6.13 - INDICATIVE SUDS MITIGATION

1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
2. BASIN TO HAVE A NATURAL PLAN PROFILE, ALIGNED WITH EXISTING CONTOURS WHERE POSSIBLE AND MIMICKING NATURAL GEOLOGICAL FEATURES THAT CAN BE FOUND IN THIS LANDSCAPE.
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 CASCADING WATERFALLS, WHICH HAVE A NATURAL APPEARANCE.
Tying into existing landform / landscape with locally appropriate grassland mix

Proposed A9 Maintenance access track with verge SuDS basin planted with wet grassland, as vegetation establishes, a mixed and biodiverse planting community will develop

Highland Main Line railway

Native woodland to A9 embankment

Existing verge to Highland Main Line railway

Temporary top of water level

Micropool level

Outlet headwall and reno mattress

Inlet headwall and reno mattress

Forebay overflow

Wet grassland proposed to SuDS basin

River Truim

Wet heath, acid grassland and scattered trees to aid landscape fit and mimic surrounding habitats

Maintenance access track

Maintenance vehicle turning head

The basins long and thin plan profile responds naturally to the existing context and fits well in this constrained location between the River Truim and Highland Main Line railway

The basins long and thin plan profile responds naturally to the existing context and fits well in this constrained location between the River Truim and Highland Main Line railway

Planting comprising wet heath, acid grassland and scattered trees to aid landscape fit and mimic surrounding habitats

Temporary top of water level

Micropool will aid and enhance biodiversity

Gently sloping earthworks within varied slope gradients

PROJECT 8 - DALWHINNIE TO CRUBENMORE
DMRB STAGE 3
DRAWING 6.14 - INDICATIVE SUDS MITIGATION

General Notes

1. All dimensions in metres unless stated otherwise.
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.
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 possible.
4. Inlets and outlets should use natural rock to create cascades which have a natural, appropriate appearance.
5. Existing soil 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 A and the Environment Mitigation Drawings 6.1-6.8.

Scale as shown

3 3 C01 A3