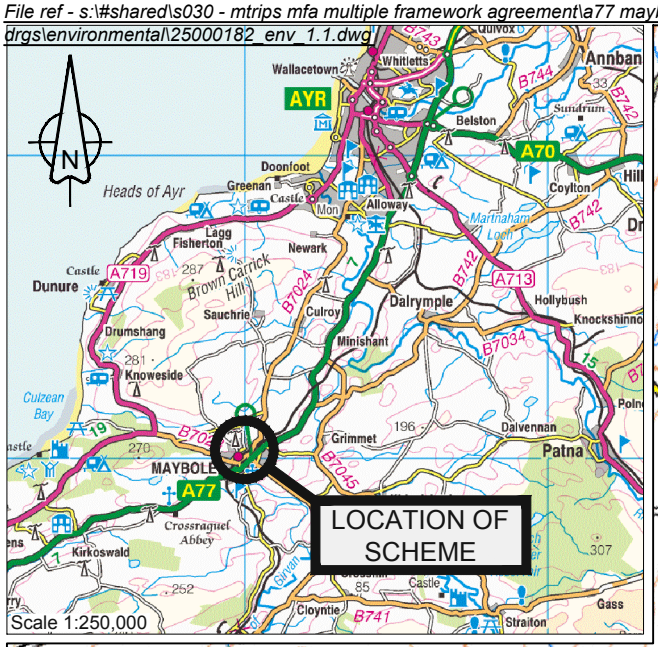
0 100

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_1.1.dwg



KEY

Scheme Extents

Rev	Revision details	Chkd	Appd	Date

Drawn: GK	
Design: GK	
Chkd: MT	
Appd: GMD	
Date: 24/08/2012	

Preliminary	
For comment	✓
For tender	
For construction	
As constructed	
Other	

Project Name

A77 Maybole Bypass

Drawing Title

Location Plan

Original Drg Size : A4	Dimensions : -
Scale : 1:25000m	Copyright © Amey

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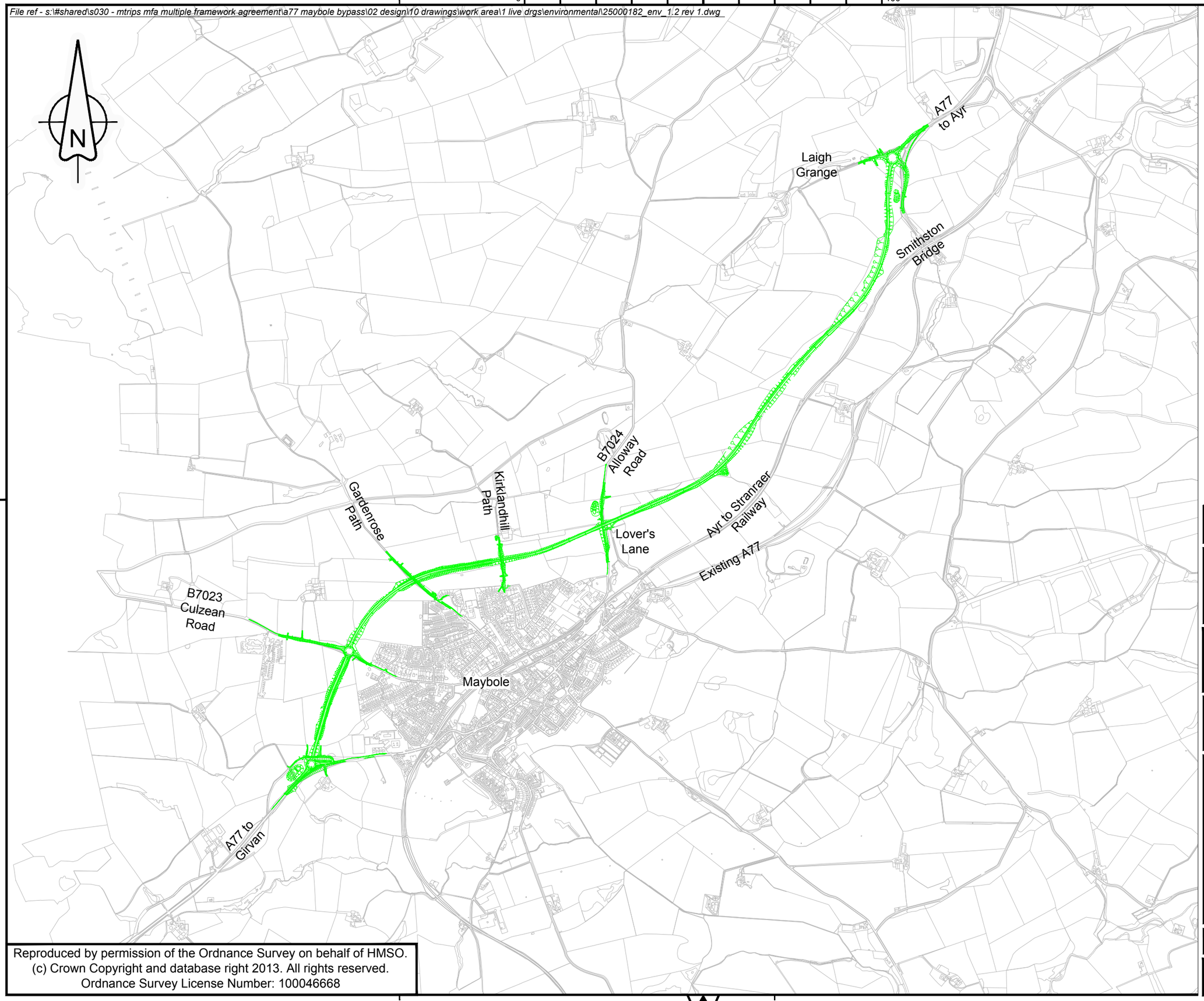
Client

TRANSPORT SCOTLAND

Drawing No	Rev
25000182/ENV/1.1	0

0 100

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_1.2 rev 1.dwg



Key

Proposed A77 Alignment

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary	
Design: MR	For comment	✓
Chkd: OF	For tender	
Appd: GM	For construction	
Date: 16/08/2013	As constructed	
	Other	

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Client

Transport Scotland

Project Name

A77 Maybole Bypass

Drawing Title

Layout Plan

Original Drg Size : A3	Dimensions : m
Scale : 1:20000	Copyright © Amey

Drawing No	Rev
25000182/ENV/1.2	1

0 100

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_1.3 rev 1.dwg

N

Key

Proposed A77 Alignment

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary	
Design: MR	For comment	✓
Chkd: OF	For tender	
Appd: GM	For construction	
Date: 16/08/2013	As constructed	
	Other	

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Client

Transport Scotland

Project Name
A77 Maybole Bypass

Drawing Title
Layout Plan -
Aerial Background

Original Drg Size : A3	Dimensions : m
Scale : 1:20000	Copyright © Amey

Drawing No	Rev
25000182/ENV/1.3	1

0 100

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_4.1 rev 1.dwg

N

Laigh Grange Farm

St Murray

Hillcrest

Mid Brockloch

West Brockloch Farm

Nether Culzean Farm

Cargliston House

East Enoch

East Enoch Farm

The Ranch Caravan Park

Fairknowe Care Home

St Cuthberts Primary School

Maybole Crosshill Road

Carrick Academy

Fordhouse Farm

Glenside Forsyth

Auchenwynd

1 2 3 4 5 6 7 8 9 10 11 13 14 M1 M2

Key

- Buffers at 50m intervals
- Proposed A77 Alignment
- Existing A77 Alignment
- 1 Receptors
- M1 Monitoring site at Carrick Academy for PM_{10}
- M2 Monitoring site at local supermarket, Maybole High Street for NO_2

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes & monitoring sites added	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Project Name
A77 Maybole Bypass

Drawing Title
Environmental Air Quality
Proposed Alignment

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/4.1	1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_4.2 rev 1.dwg

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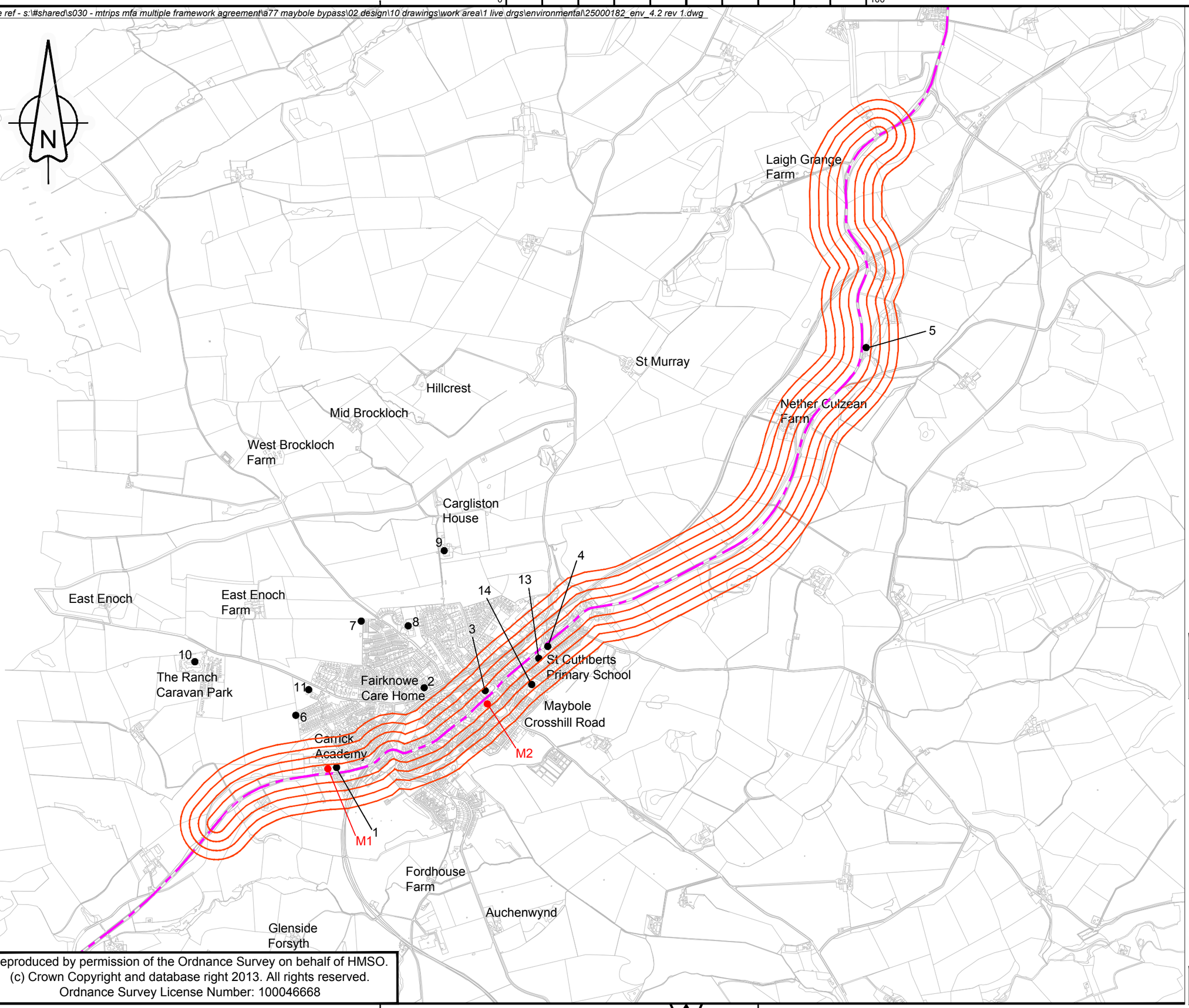

Key

- Buffers at 50m intervals
- Existing A77 Alignment
- 1 Receptors
- M1 Monitoring site at Carrick Academy for PM_{10}
- M2 Monitoring site at local supermarket, Maybole High Street for NO_2

Rev	Revision details	Chkd	Appd	Date
1	Monitoring sites added	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client: TRANSPORT SCOTLAND

Project Name: A77 Maybole Bypass

Drawing Title: Environmental Air Quality Existing Alignment

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/4.2	1

0 100

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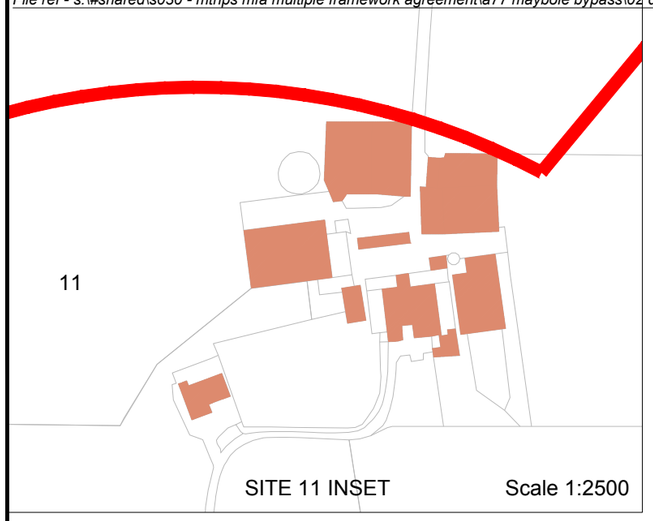

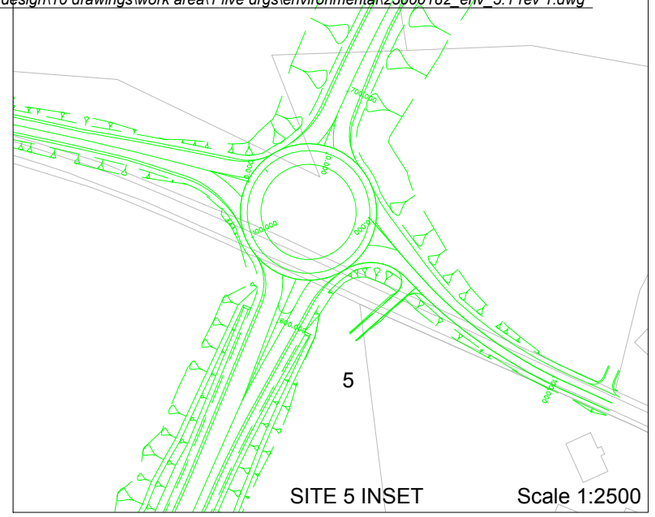

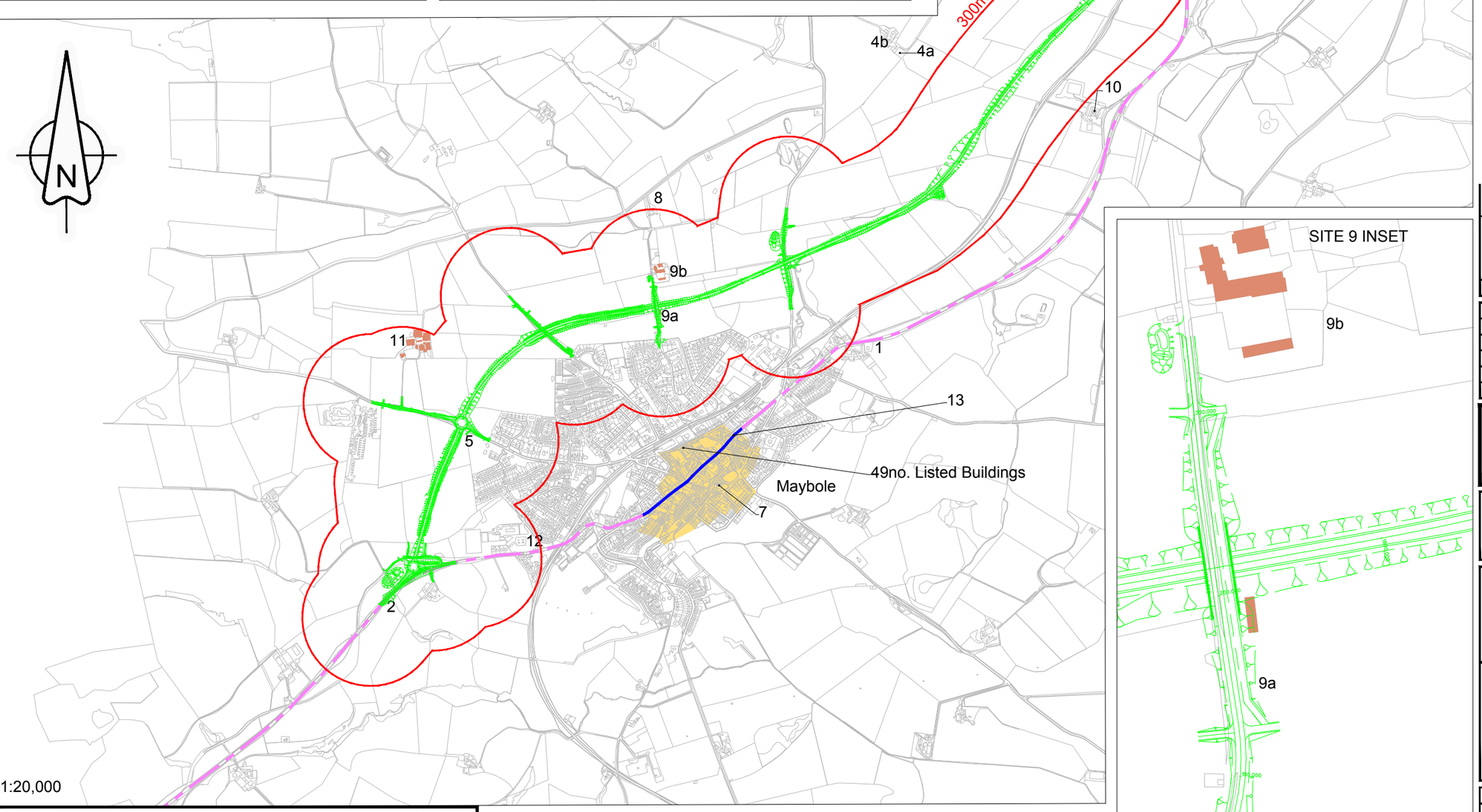

Scale 1:20,000

Key

SITE 1 -	Lyonstone Standing Stone
SITE 2 -	Milestone South of Maybole
SITE 3 -	Milestone North of Maybole
SITE 4a -	Possible Enclosure St Murray
SITE 4b -	Possible Barrow St Murray
SITE 5 -	St Anthonys Well
SITE 6 -	Smithstone Castle
SITE 7 -	Collegaite Church
SITE 8 -	Cargilston Farmstead
SITE 9a -	Kirklandhill Cottage
SITE 9b -	Kirklandhill Farm
SITE 10 -	Nether Culzean Farmstead
SITE 11 -	East Enoch House
SITE 12 -	Carrick Academy
SITE 13 -	Maybole High Street

300m Buffer
Proposed A77 Alignment
Existing A77 Alignment
High Street
Conservation Area

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes & Conservation Area Added.	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Cultural Heritage Features

Original Drg Size : A3	Dimensions : m
Scale : As Shown	Copyright © Amey

Drawing No	Rev
25000182/ENV/5.1	1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_6.1 rev 1.dwg

0 100

N

① ② ③ ④

Key

- Preferred Alignment
- Water Feature (River, burn, loch, pond, watercourse)
- Bridge or Culvert
- Flow Direction
- Existing Carriageway
- ① Brockloch Burn (unclassified by SEPA)
- ② Chapelton Burn (Moderate status - SEPA)
- ③ Abbeymill Burn (Moderate status)
- ④ Barlewan Burn

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary	
Design: MR	For comment	✓
Chkd: OF	For tender	
Appd: GM	For construction	
Date: 16/08/2013	As constructed	
	Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

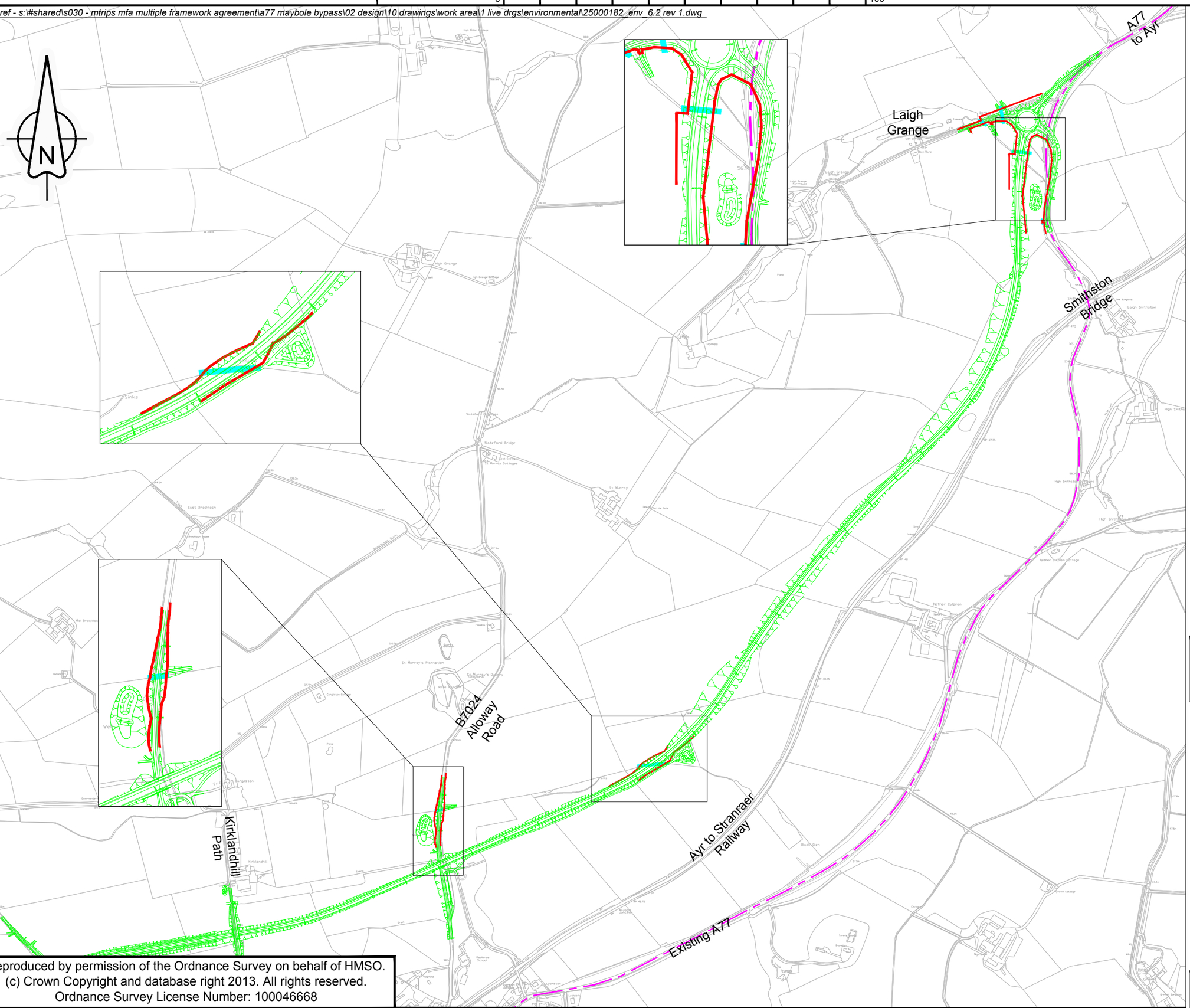
Drawing Title
Watercourses with fish recorded

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/6.1	1

0 100

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_6.2 rev 1.dwg



Key

- Preferred Alignment
- Existing Carriageway
- Otter Tunnel
- Mammal proof fencing (100m either side of tunnel)

Notes

Badger mitigation will also be included in the design, however locations not shown due to the protected nature of the species.

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: ER	Preliminary		
Design: MR	For comment	✓	
Chkd: OF	For tender		
Appd: GM	For construction		
Date: 16/08/2013	As constructed		
	Other		

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Project Name

A77 Maybole Bypass

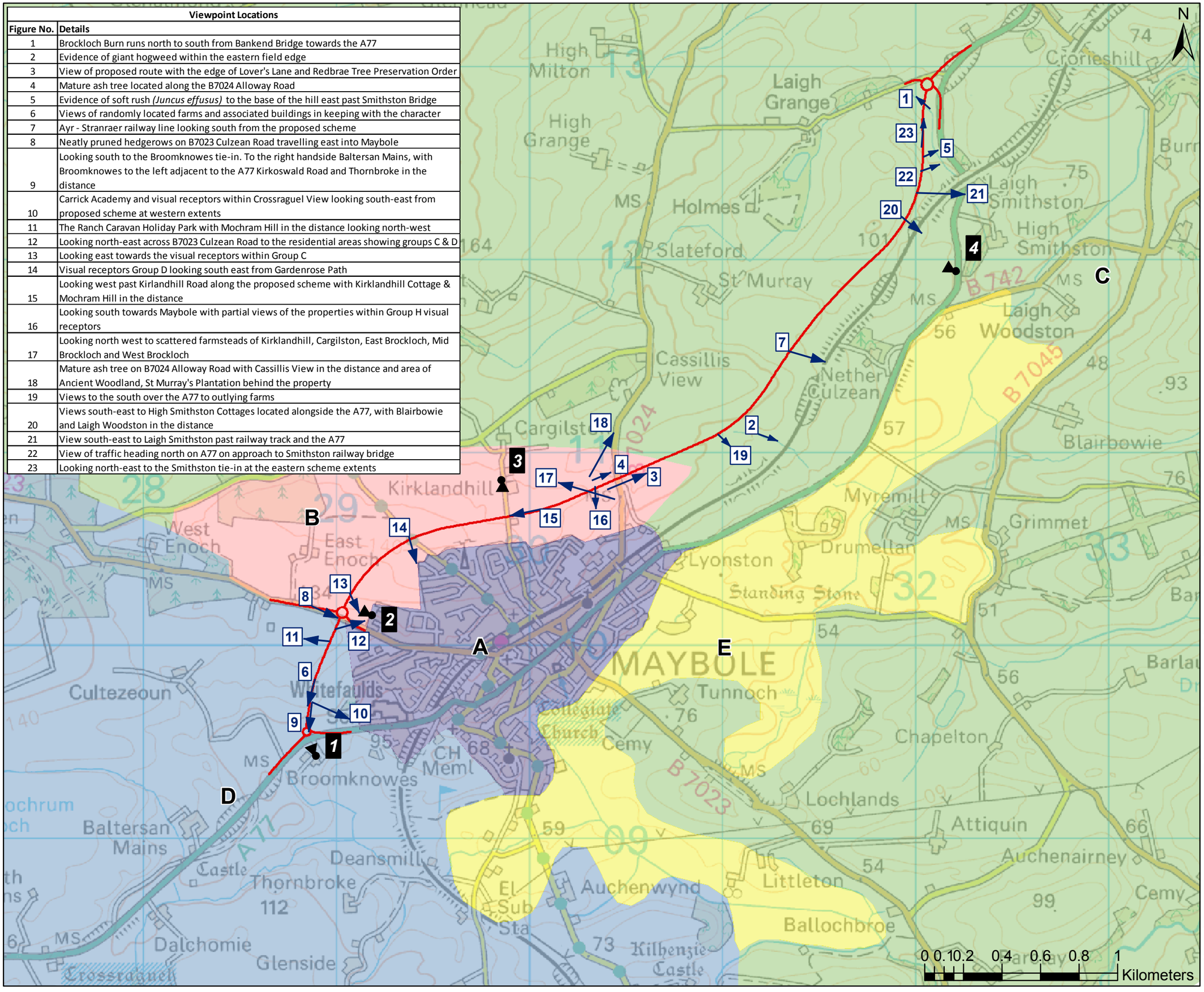
Drawing Title

Ecological Mitigation

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/6.2	1

Viewpoint Locations	
Figure No.	Details
1	Brockloch Burn runs north to south from Bankend Bridge towards the A77
2	Evidence of giant hogweed within the eastern field edge
3	View of proposed route with the edge of Lover's Lane and Redbrae Tree Preservation Order
4	Mature ash tree located along the B7024 Alloway Road
5	Evidence of soft rush *(Juncus effusus)* to the base of the hill east past Smithston Bridge
6	Views of randomly located farms and associated buildings in keeping with the character
7	Ayr - Stranraer railway line looking south from the proposed scheme
8	Neatly pruned hedgerows on B7023 Culzean Road travelling east into Maybole
9	Looking south to the Broomknowes tie-in. To the right handside Baltersan Mains, with Broomknowes to the left adjacent to the A77 Kirkoswald Road and Thornbroke in the distance
10	Carrick Academy and visual receptors within Crossraguel View looking south-east from proposed scheme at western extents
11	The Ranch Caravan Holiday Park with Mochram Hill in the distance looking north-west
12	Looking north-east across B7023 Culzean Road to the residential areas showing groups C & D
13	Looking east towards the visual receptors within Group C
14	Visual receptors Group D looking south east from Gardenrose Path
15	Looking west past Kirlandhill Road along the proposed scheme with Kirklandhill Cottage & Mochram Hill in the distance
16	Looking south towards Maybole with partial views of the properties within Group H visual receptors
17	Looking north west to scattered farmsteads of Kirklandhill, Cargilston, East Brockloch, Mid Brockloch and West Brockloch
18	Mature ash tree on B7024 Alloway Road with Cassillis View in the distance and area of Ancient Woodland, St Murray's Plantation behind the property
19	Views to the south over the A77 to outlying farms
20	Views south-east to High Smithston Cottages located alongside the A77, with Blairbowie and Laigh Woodston in the distance
21	View south-east to Laigh Smithston past railway track and the A77
22	View of traffic heading north on A77 on approach to Smithston railway bridge
23	Looking north-east to the Smithston tie-in at the eastern scheme extents



LEGEND

- Photomontage Sites
- Proposed Scheme
- Viewpoint Locations

Detailed Landscape Character Areas

- A - Maybole Townscape
- B - Kirklandhill Ridge
- C - Carrick Rolling Hills
- D - Hillside Woodland and Pasture
- E - Maybole Plain

Rev	Revision Details	Chkd	Appd	Date
1	Minor layout changes	TS	GM	13/11/2013

Drawn : VM		Preliminary	
Design : TS		For Comment	✓
Chkd : OF		For tender	
Appd : GM		For construction	
Date : 16/08/2013		As constructed	
		Other	

Client : TRANSPORT SCOTLAND

Project Name :
A77 Maybole Bypass

Drawing Title :
Detailed Landscape Character Areas

Original Drawing Size : A3	
Scale : 1:18,000	Dimensions :

Drawing No	Rev
25000182/ENV/7.1	1

CULTURAL HERITAGE FEATURES	
ID	Name
1	Baltersan Castle
2	Milestone South of Maybole
3	East Enoch House
4	St Anthony's Well
5	Collegaite Church
6	Cargilston Farmstead
7a	Kirklandhill Cottage
7b	Kirklandhill Farm
8	St John's Cottage
9	Lyonstone Standing Stone
10a	Possible Enclosure St Murray
10b	Possible Barrow St Murray
11	Nether Culzean Farmstead
12	Smithstone Castle
13	Milestone North of Maybole

N

0 0.1 0.2 0.4 0.6 0.8 1 Kilometers

LEGEND

- Cultural Heritage Feature
- Milestone
- Deciduous Tree
- Walls
- Proposed Scheme
- Ephemeral Burn
- Wet Burn/Ditch
- Maybole Town
- Open Water
- Provisional Wildlife Site
- Study Area
- Ancient Woodland
- Semi-Natural Ancient Woodland
- Woodland not on inventories
- Sensitive Landscape Character Area
- Leisure and Recreation Site
- Rural Protection Area
- Scenic Area

Rev	Revision Details	Chkd	Appd	Date

Drawn :	VM
Design :	TS
Chkd :	OF
Appd :	GM
Date :	16/08/2013

Preliminary	
For Comment	✓
For tender	
For construction	
As constructed	
Other	

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Client : TRANSPORT SCOTLAND

Project Name :

A77 Maybole Bypass

Drawing Title :

Existing Landscape Features

Original Drawing Size :	A3
Scale : 1:20,000	Dimensions :

Drawing No	Rev
25000182/ENV/7.2	0

Long distance views afforded from a number of locations along the route

0 0.1 0.2 0.4 0.6 0.8 1 Kilometers

LEGEND

- Deciduous Tree
- Hedge
- Wall
- Proposed Scheme
- Visual Envelope Boundary
- Ridge & NW Facing Aspect
- Open Water
- Provisional Wildlife Site
- Ancient Woodland
- Semi-Natural Ancient Woodland
- Woodland not on inventories
- Intermittent Views
- Views

Rev	Revision Details	Chkd	Appd	Date
1	Addition of visual envelope line	TS	GM	25/10/2013

Drawn :	VM
Design :	TS
Chkd :	OF
Appd :	GM
Date :	16/08/2013

Preliminary	
For Comment	✓
For tender	
For construction	
As constructed	
Other	

Client : TRANSPORT SCOTLAND

Project Name :
A77 Maybole Bypass

Drawing Title :
Visual Envelope Map

Original Drawing Size :	A3
Scale : 1:20,000	Dimensions :

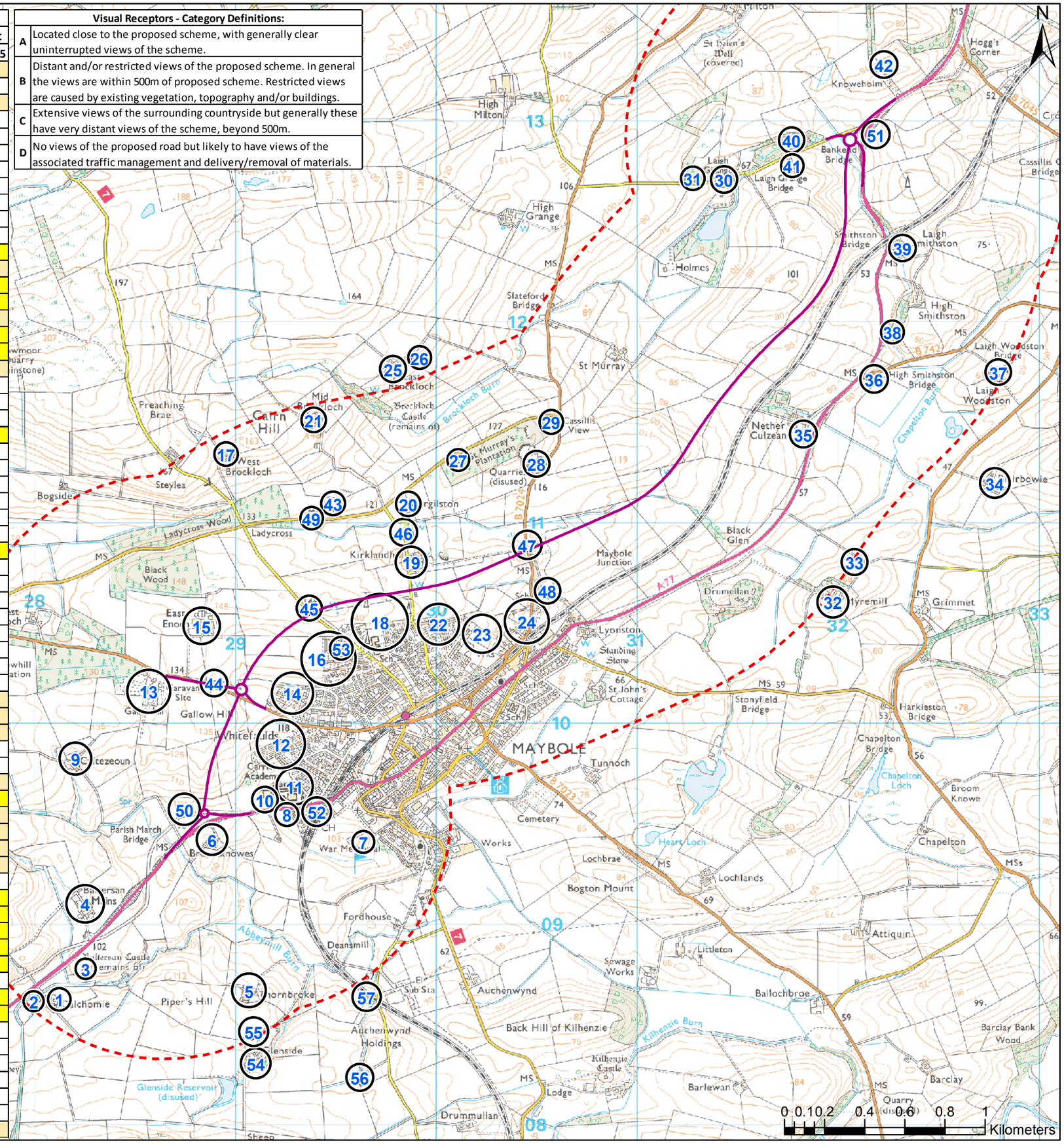
Drawing No	Rev
25000182/ENV/7.3	1

Visual Receptors & Impacts

Reference No.	Name	Category	Impact 0	Impact 1	Impact 15
1	Dalchomie	B			
2	Dalchomie Cottages	D			
3	Baltersan Castle	B			
4	Baltersan Mains	D			
5	Thornbroke	C			
6	Broomknowes	A			
7	War Memorial and Golf Course	C			
8	Crossraguel View	B			
9	Cultezeoun	B			
10	Maybole Group A	D			
11	Carrcik Academy	B			
12	Maybole Group B (a)	A			
	Maybole Group B (b)	B			
13	The Ranch Caravan Park	A			
14	Maybole Group C (a)	A			
	Maybole Group C (b)	B			
15	East Enoch	A			
16	Maybole Group D (a)	A			
	Maybole Group D (b)	B			
17	West Brockloch	D			
18	Maybole Group E (a)	A			
	Maybole Group E (b)	B			
19	Kirklandhill	A			
20	Cargilston	B			
21	Mid Brockloch	D			
22	Maybole Group F (a)	A			
	Maybole Group F (b)	B			
23	Maybole Group G (a)	A			
	Maybole Group G (b)	B			
24	Maybole Group H (a)	A			
	Maybole Group H (b)	B			
25	East Brockloch	D			
26	Hill Crest	D			
27	Cargilston Cottage	D			
28	Fairfield	D			
29	Cassillis View	D			
30	Laigh Grange	D			
31	Low Grange Bungalows	D			
32	Myremill	C			
33	Myremill Cottage	C			
34	Blairbowie	C			
35	Nether Culzean	D			
36	Nether Culzean Cottage	D			
37	Laigh Woodston	C			
38	High Smithston Cottages	B			
39	Laigh Smithston	B			
40	Glen Marie Cottage	B			
41	Glen Marie	B			
42	Knoweholm	B			
43	Covenanter's Memorial	D			
44	B7023 Culzean Road	A			
45	Gardenrose Path	A			
46	Kirklandhill Road	A			
47	B7024 Alloway Road	A			
48	Lover's Lane	A			
49	Ladycross Road	D			
50	Broomknowes Tie-in, A77	A			
51	Smithstone Tie-in, A77	A			
52	Bus Stop (Culzean Road)	C			
53	Bus Stop (Garenrose Path)	D			
54	Glenside	C			
55	Glenside Cottage	C			
56	Auchenwynd Holdings	C			
57	Property at railway track	C			
58	Road Users	A			

Visual Receptors - Category Definitions:

A	Located close to the proposed scheme, with generally clear uninterrupted views of the scheme.
B	Distant and/or restricted views of the proposed scheme. In general the views are within 500m of proposed scheme. Restricted views are caused by existing vegetation, topography and/or buildings.
C	Extensive views of the surrounding countryside but generally these have very distant views of the scheme, beyond 500m.
D	No views of the proposed road but likely to have views of the associated traffic management and delivery/removal of materials.



LEGEND

- Proposed Scheme
- Visual Receptor Areas
- Study Area

Visual Impact - see table

- Very Large
- Large
- Moderate
- Slight
- Neutral

0 | 1 | 15
0 = Significance of Impact During Construction
1 = Significance of Impact Year 1
15 = Significance of Impact Year 15

Rev	Revision Details	Chkd	Appd	Date
1	Amendments to receptor nos.	TS	GM	18/10/2013

Drawn :	VM
Design :	TS
Chkd :	OF
Appd :	GM
Date :	16/08/2013

Preliminary	
For Comment	✓
For tender	
For construction	
As constructed	
Other	

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Client : TRANSPORT SCOTLAND

Project Name :
A77 Maybole Bypass

Drawing Title :
Visual Receptors

Original Drawing Size :	A3
Scale : 1:20,000	Dimensions :

Drawing No	Rev
25000182/ENV/7.4	1

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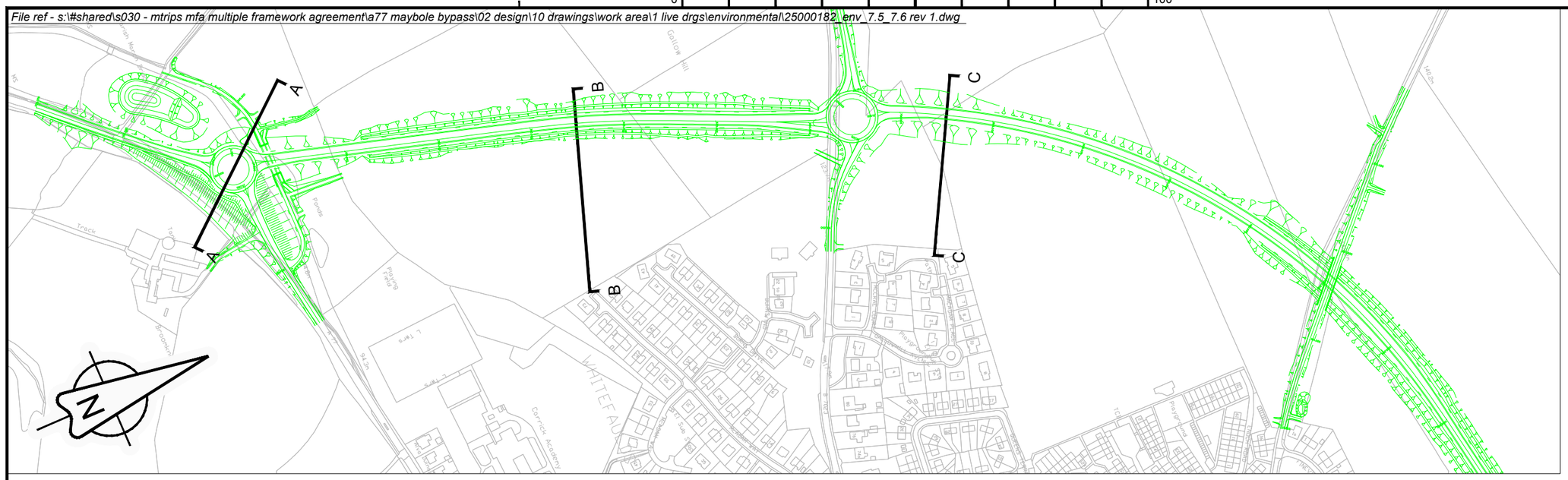
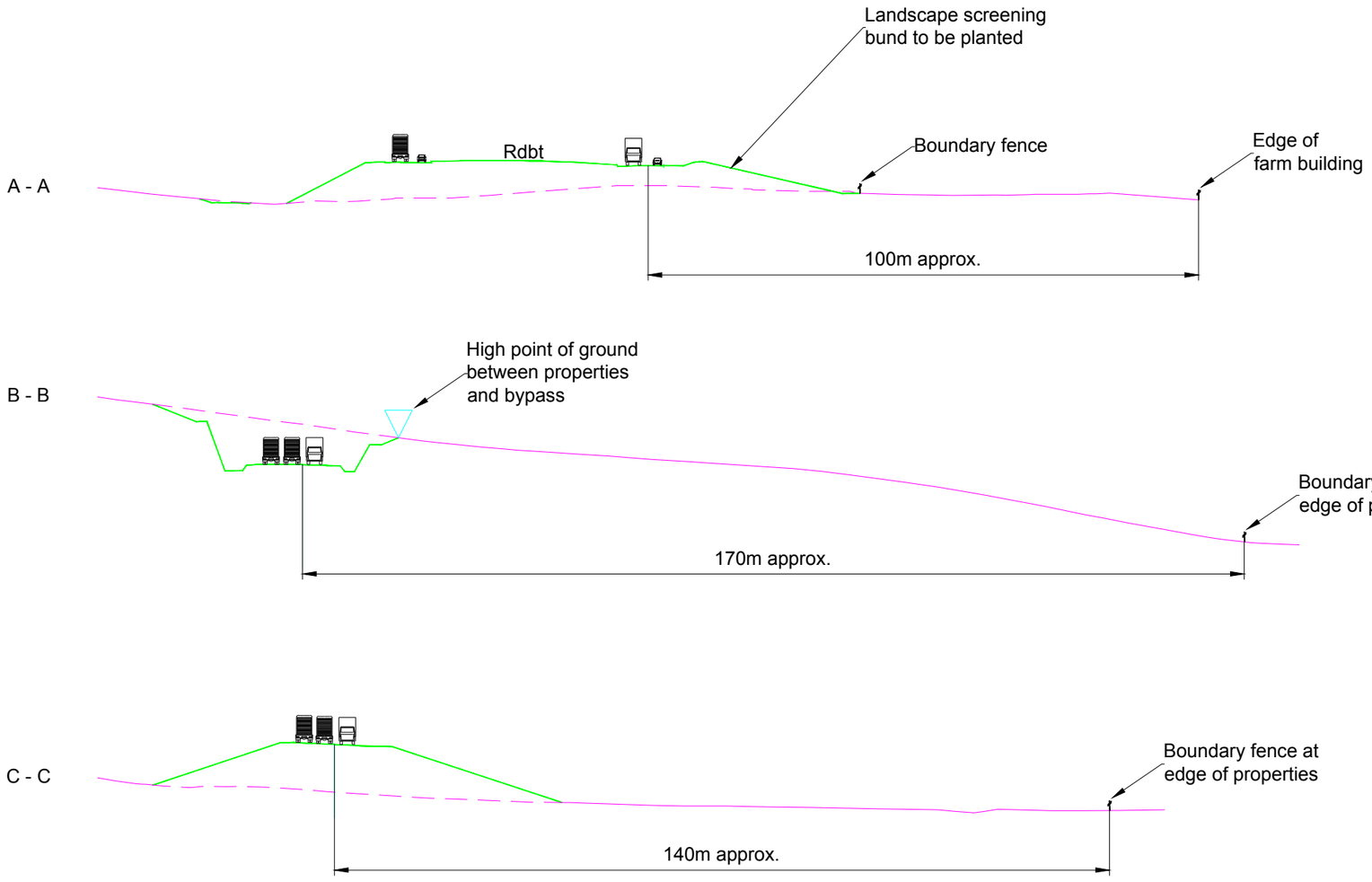
File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_7.5_7.6 rev 1.dwg





Rev	Revision details	Chkd	Appd	Date
1	Minor layout/detail changes & new section added	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

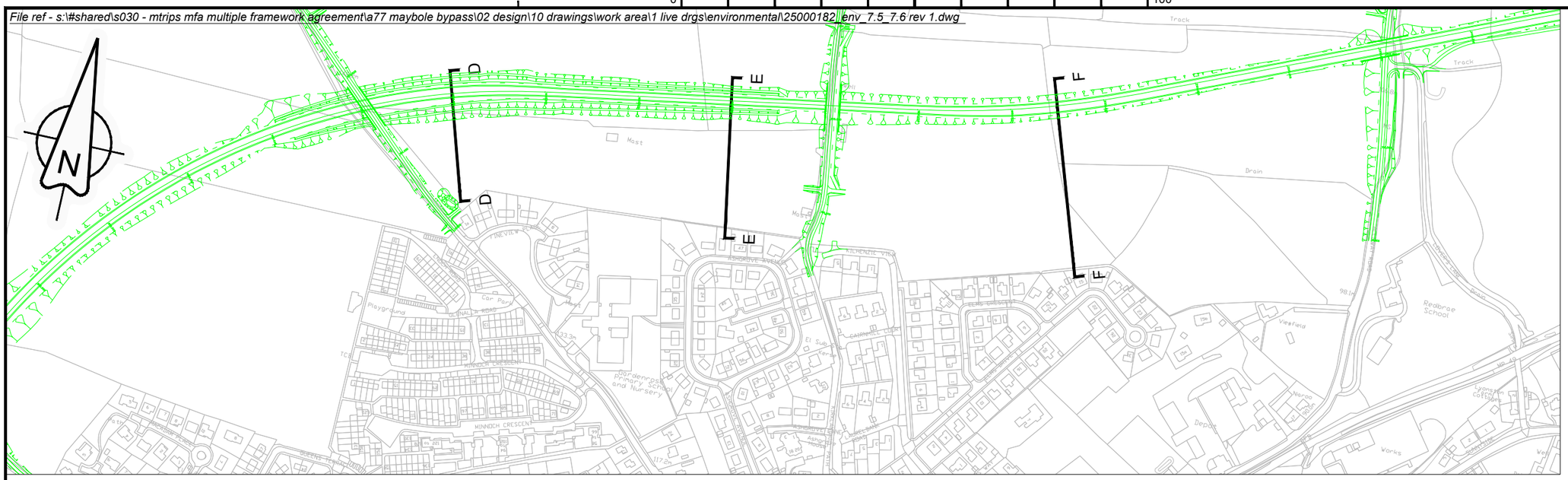
Drawing Title
Cross-sections
1 of 2

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
25000182/ENV/7.5	1

0 100

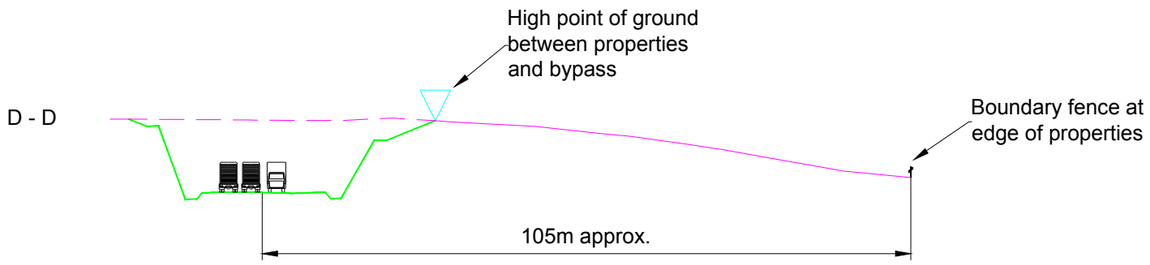
File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_7.5_7.6 rev 1.dwg

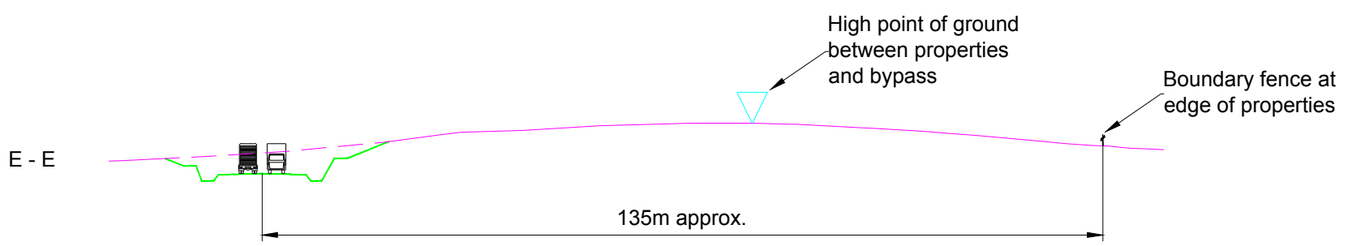


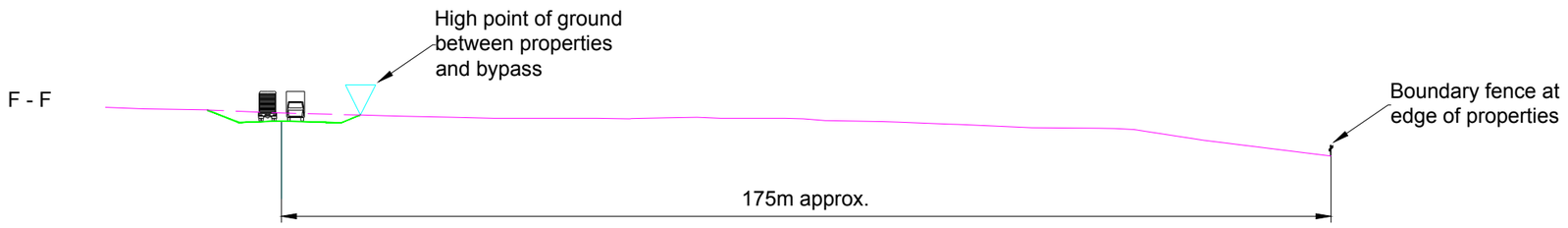
Key

Proposed A77 Alignment

Existing Ground







Rev	Revision details	Chkd	Appd	Date
1	Minor layout/detail changes & revised section names	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client

TRANSPORT SCOTLAND

Project Name

A77 Maybole Bypass

Drawing Title

Cross-sections
2 of 2

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
25000182/ENV/7.6	1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_7.7_7.8_7.9_7.10_rev 1.dwg

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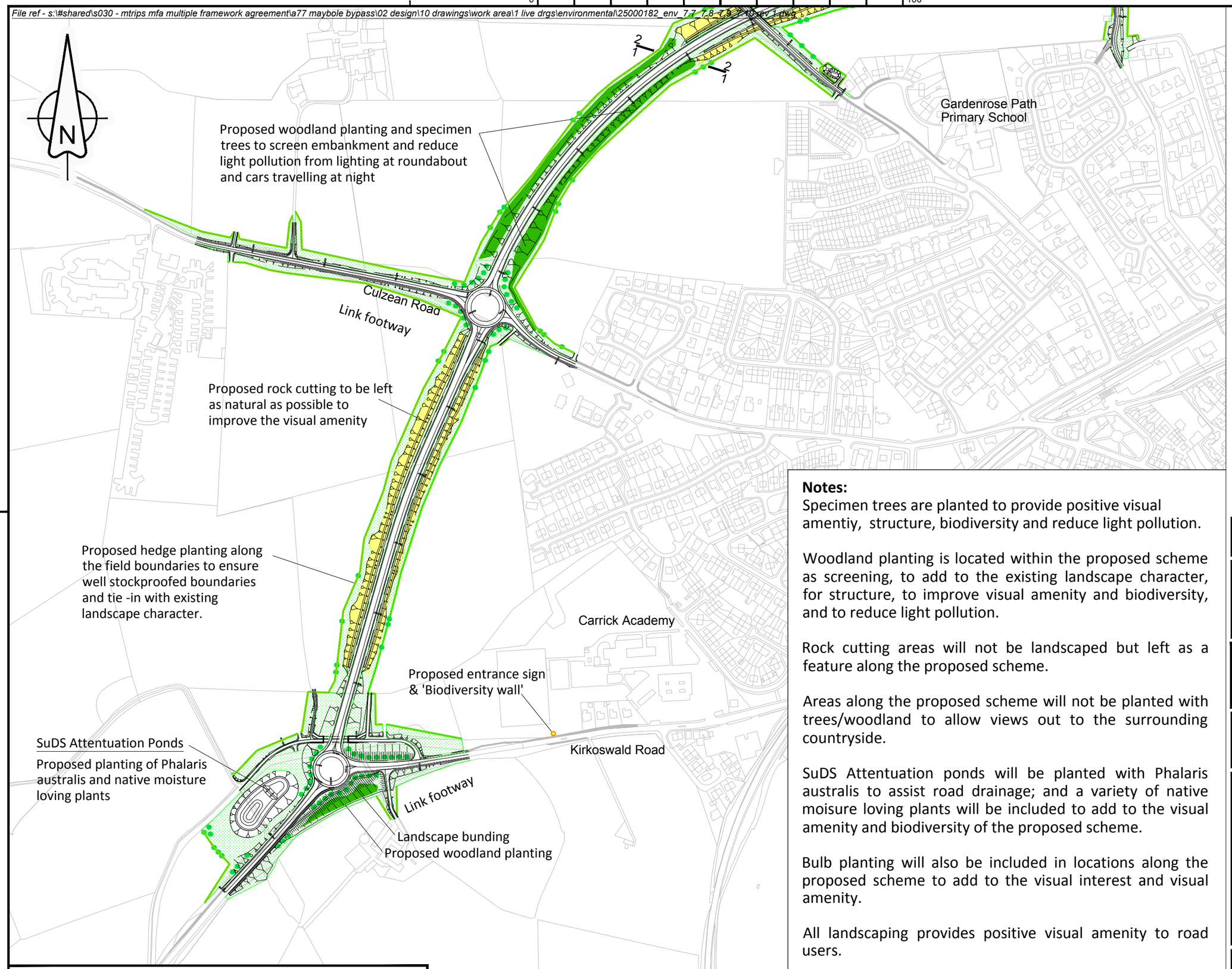

KEY

- Specimen trees
- Woodland planting
- Grass &/or wildflower areas
- Rock Cutting
- SuDS Attenuation Ponds
- Town Entrance Sign within 'Biodiversity Wall'
- Hedge Planting

Notes:

Specimen trees are planted to provide positive visual amentiy, structure, biodiversity and reduce light pollution.

Woodland planting is located within the proposed scheme as screening, to add to the existing landscape character, for structure, to improve visual amenity and biodiversity, and to reduce light pollution.

Rock cutting areas will not be landscaped but left as a feature along the proposed scheme.

Areas along the proposed scheme will not be planted with trees/woodland to allow views out to the surrounding countryside.

SuDS Attentuation ponds will be planted with Phalaris australis to assist road drainage; and a variety of native moisure loving plants will be included to add to the visual amenity and biodiversity of the proposed scheme.

Bulb planting will also be included in locations along the proposed scheme to add to the visual interest and visual amenity.

All landscaping provides positive visual amenity to road users.

All landscaping measures are included in the proposed A to Bee Initiative

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client

Transport Scotland

Project Name
A77 Maybole Bypass

Drawing Title
Landscape Proposals - 1 of 4

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No
25000182/ENV/7.7

Rev
1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_7.7_7.8_7.9_7.10 rev 1.dwg

0 100

Notes:
Specimen trees are planted to provide positive visual amentiy, structure, biodiversity and reduce light pollution.

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All landscaping measures are included in the proposed A to Bee Initiative

N

SuDS Attentuation Ponds
Proposed planting of Phalaris australis and native moisture loving plants

A77 Bypass Road

SuDS Attentuation Ponds
Proposed planting of Phalaris australis and native moisture loving plants

Proposed rock cutting to be left as natural as possible to improve the visual amenity

Masonry wall

SuDS Attentuation Ponds
Proposed planting of Phalaris australis and native moisture loving plants

Gardenrose Path

Kirkfield Path

Proposed hedge planting along the field boundaries to ensure well stockproofed boundaries

SuDS Attentuation Ponds
Proposed planting of Phalaris australis and native moisture loving plants

Gardenrose Path
Primary School

KEY

- Specimen trees
- Woodland planting
- Grass &/or wildflower areas
- Rock Cutting
- SuDS Attenuation Ponds
- Town Entrance Sign within 'Biodiversity Wall'
- Hedge Planting

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary		
Design: MR	For comment	✓	
Chkd: OF	For tender		
Appd: GM	For construction		
Date: 16/08/2013	As constructed		
	Other		

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Landscape Proposals - 2 of 4

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
25000182/ENV/7.8	1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_7.7_7.8_7.9_7.10 rev 1.dwg

0 100

KEY

- Specimen trees
- Woodland planting
- Grass &/or wildflower areas
- Rock Cutting
- SuDS Attenuation Ponds
- Town Entrance Sign within 'Biodiversity Wall'
- Hedge Planting

Notes:

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All landscaping provides positive visual amenity to road users.

All landscaping measures are included in the proposed A to Bee Initiative

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Landscape Proposals - 3 of 4

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
25000182/ENV/7.9	1

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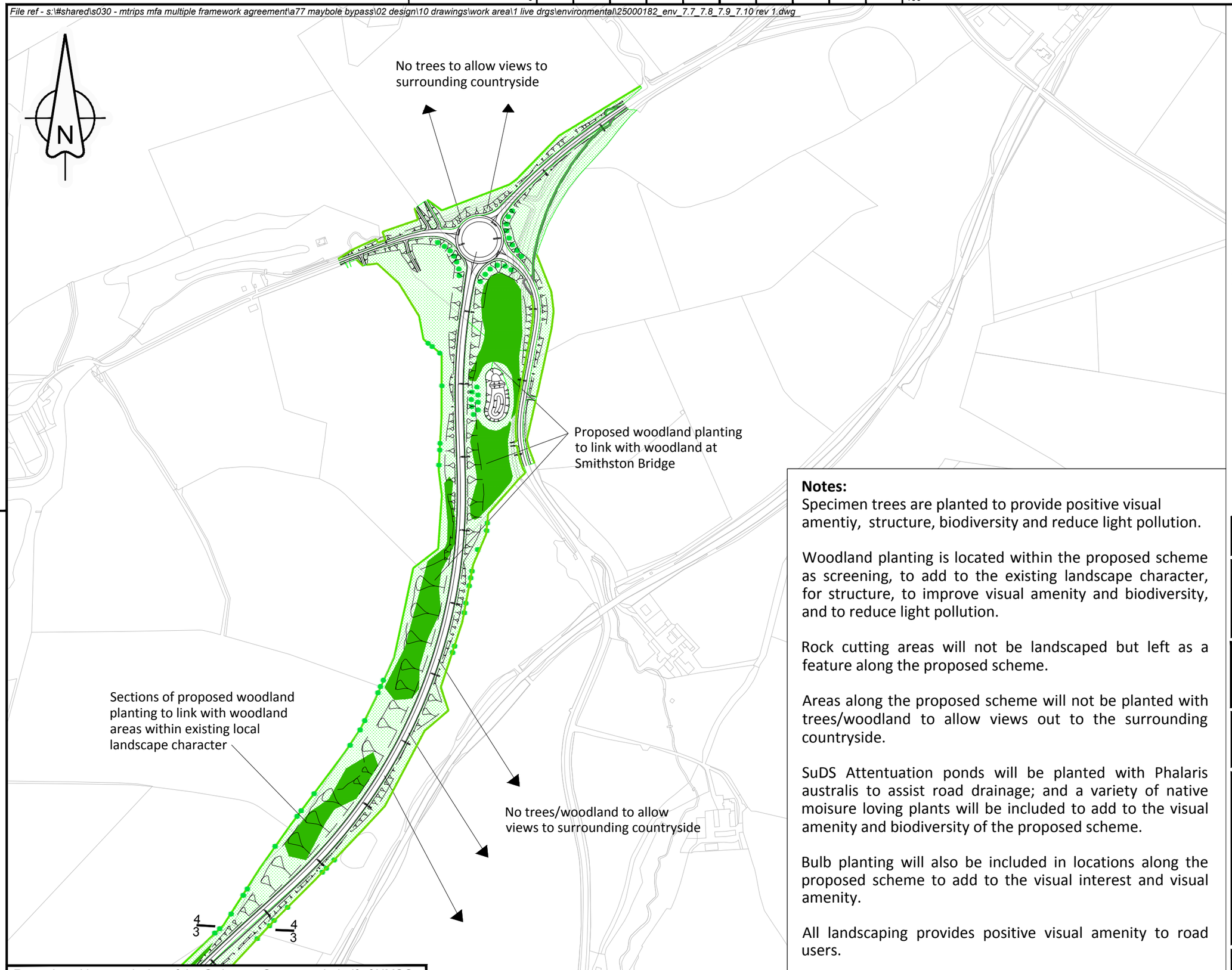

Notes:

Specimen trees are planted to provide positive visual amentiy, structure, biodiversity and reduce light pollution.

Woodland planting is located within the proposed scheme as screening, to add to the existing landscape character, for structure, to improve visual amenity and biodiversity, and to reduce light pollution.

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All landscaping provides positive visual amenity to road users.

All landscaping measures are included in the proposed A to Bee Initiative

KEY

- Specimen trees
- Woodland planting
- Grass &/or wildflower areas
- Rock Cutting
- SuDS Attenuation Ponds
- Town Entrance Sign within 'Biodiversity Wall'
- Hedge Planting

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client: Transport Scotland

Project Name: A77 Maybole Bypass

Drawing Title: Landscape Proposals - 4 of 4

Original Drg Size : A3	Dimensions : m
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
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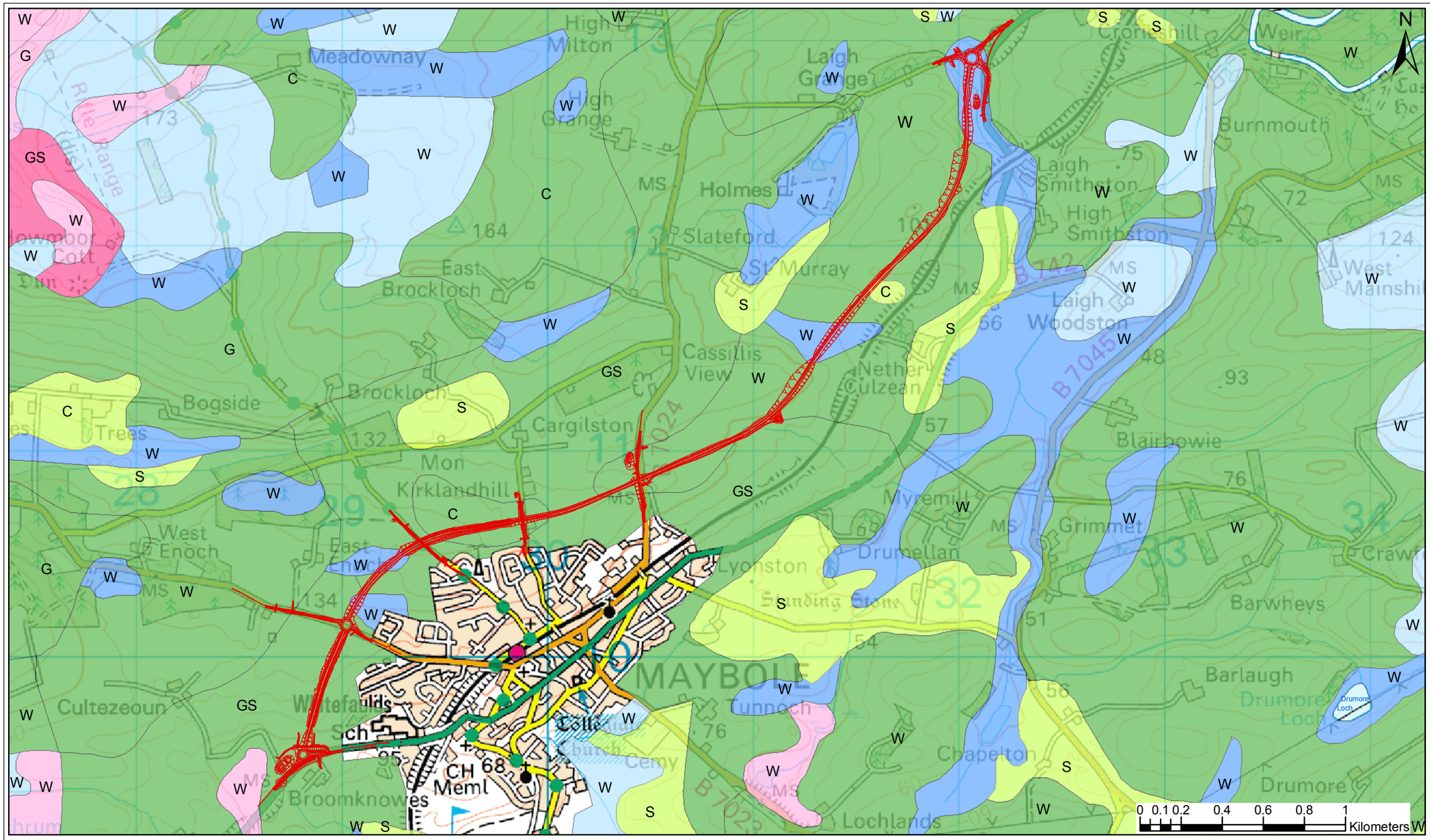

DIVISION DESCRIPTIONS

LAND SUITED TO ARABLE CROPPING		
3.1	Land Suitable of producing a moderate range of crops	Land in this division is capable of producing consistently high yields of a narrow range of crops (principally cereals and grass) and/or moderate yields of a wider range (including potatoes, field beans and other vegetables and root crops). Short grass leys are common.
3.2	Land Suitable of producing a moderate range of crops	The land is capable of average production but high yields of barley, oats and grass are often obtained. Other crops are limited to potatoes and forage crops. Grass leys are common and reflect the increasing growth limitations for arable crops and degree of risk involved in their production.
4.1	Land capable of producing a narrow range of crops	Land in this division is suited to rotations which, although primarily based on ley grassland, include forage crops and cereals for stock feed. Yields of grass are high but difficulties of utilisation and conservation may be encountered. Other crop yields are very variable and usually below the national average.
4.2	Land capable of producing a narrow range of crops	The land is primarily grassland with some limited potential for other crops. Grass yields can be high but difficulties of conservation or utilisation may be severe, especially in areas of poor climate or on very wet soils. Some forage cropping is possible and, when the extra risks involved can be accepted, an occasional cereal crop.
LAND SUITED ONLY TO IMPROVED GRASSLAND AND ROUGH GRAZINGS		
5.1	Land capable of use as improved grassland	Establishment of a grass sward and its maintenance present few problems and potential yields are high with ample growth throughout the season. Patterns of soil, slope or wetness may be slightly restricting but the land has few poaching problems. High stocking rates are possible.
5.3	Land capable of use as improved grassland	Land in this division has properties which lead to serious trafficability and poaching difficulties and although sward establishment may be easy, deterioration in quality is often rapid. Patterns of soil, slope or wetness may seriously interfere with establishment and/or maintenance. The land cannot support high stock densities without damage and this may be serious after heavy rain even in summer.

SUBCLASS SYMBOLS

C	Climatic Limitations
G	Gradient Limitations
S	Soil Limitations
W	Wetness Limitations

In areas where two or more subclass limitations are shown, the symbol indicating the dominant limitation is placed first.

LEGEND

Proposed Scheme

Rev	Revision Details	Chkd	Appd	Date
1	Minor layout changes	TS	GM	28/10/2013

Drawn :	VM	Preliminary	
Design :	TS	For Comment	✓
Chkd :	OF	For tender	
Appd :	GM	For construction	
Date :	16/08/2013	As constructed	
		Other	

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Client : TRANSPORT SCOTLAND

Project Name :
A77 Maybole Bypass

Drawing Title :
Land Capability Classification

Original Drawing Size :	A3
Scale : 1:20,000	Dimensions :

Drawing No	Rev
25000182/ENV/8.1	1

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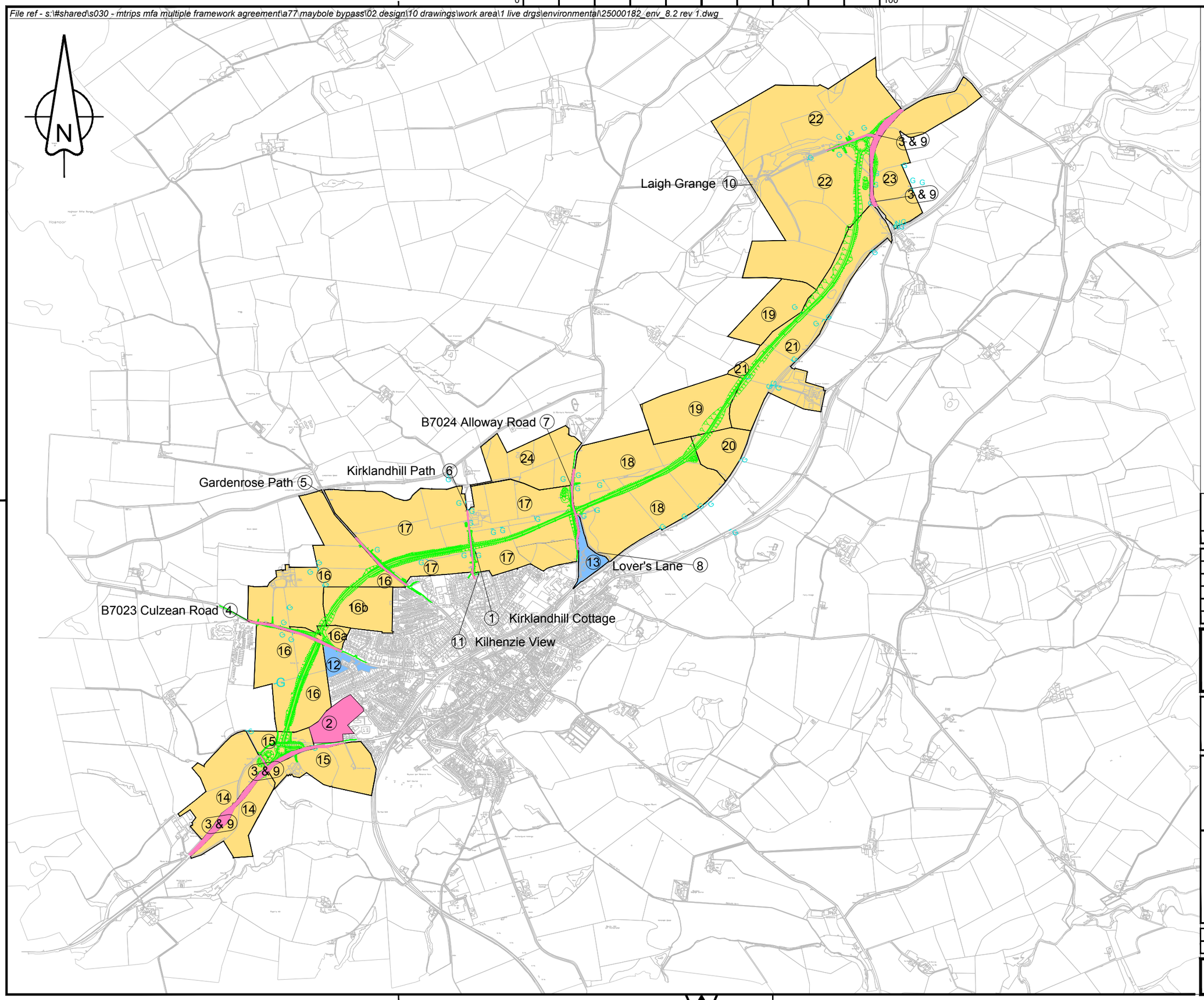

KEY:

Private & Commercial Properties

1. Kirkland Hill Cottage

Community Land

2. Carrick Academy

3 - 7. Roads Including A77, B7023 Culzean Road, Gardenrose Path, Kirklandhill Path & B7024 Alloway Road.

8. Lover's Lane

9. Solum

10. Laigh Grange Road

11. Kilhenzie View

Development Land

12. Whitefaulds Residential Deveopment

13. Redbrae Residential Development

Agricultural Land

14. Baltersan Mains - Culzean Estates

15. Broomknowes

16. East Enoch

16a & 16b. Rented by East Enoch

17. Kirklandhill

18. Lyonston

19. St Murray

20. Myremill

21. Nether Culzean

22. East Brockloch

23. Glenside

24. Mid-Brockloch

G Existing Field Gate

Rev	Revision details	Chkd	Appd	Date
1	Area changes & Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary	
Design: MR	For comment	✓
Chkd: OF	For tender	
Appd: GM	For construction	
Date: 16/08/2013	As constructed	
	Other	

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Project Name

A77 Maybole Bypass

Drawing Title

Land Use Plot Areas

Original Drg Size : A3	Dimensions : m
Scale : 1:20000	Copyright © Amey

Drawing No	Rev
25000182/ENV/8.2	1

0 100

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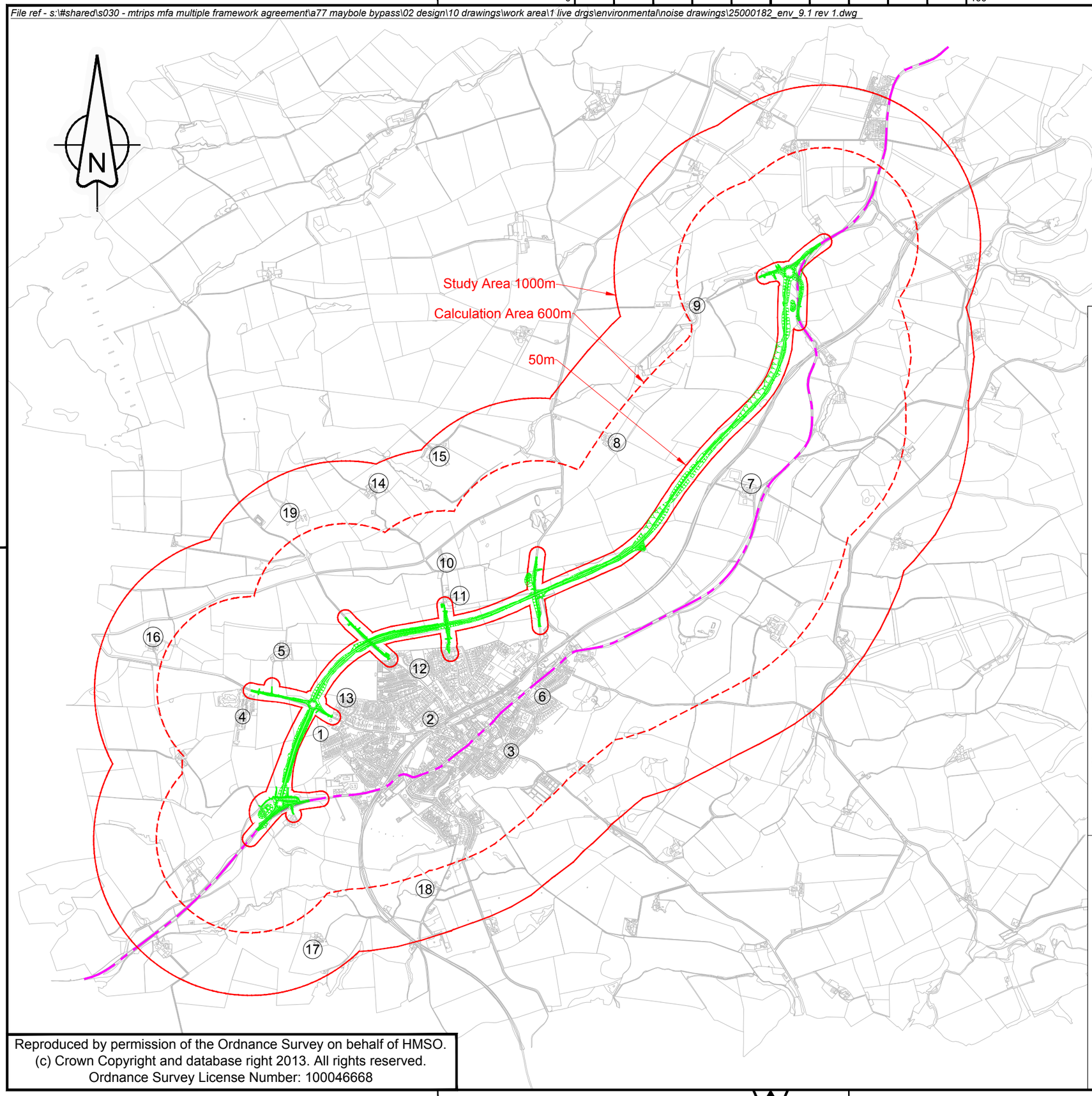

Key

- Study Area
- Calculation Area
- Existing A77
- Proposed A77 Alignment

Representative Receptors (within Calculation Area)

1. New Development at Burns Drive
2. Fairknowe House Care Home
3. 16 Crosshill Road
4. The Ranch Caravan Park
5. East Ennoch Farm
6. St Cuthberts Primary School
7. Nether Culzean Farm
8. St Murray's Farm
9. Laigh Grange Farm
10. Cargliston House
11. Kirklandhill Farm
12. Gardenrose Primary School
13. 6 Macadam Place

Other Representative Receptors (outside Calculation Area)

14. Mid Brochloch Farm
15. Hillcrest Farm
16. East Ennoch
17. Glenside Forsyth
18. Fordhouse Farm
19. West Brochloch Farm

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes & study area updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Environmental Noise & Vibration Study Areas

Original Drg Size : A3	Dimensions : m
Scale : 1:25,000	Copyright © Amey

Drawing No 25000182/ENV/9.1 | Rev 1

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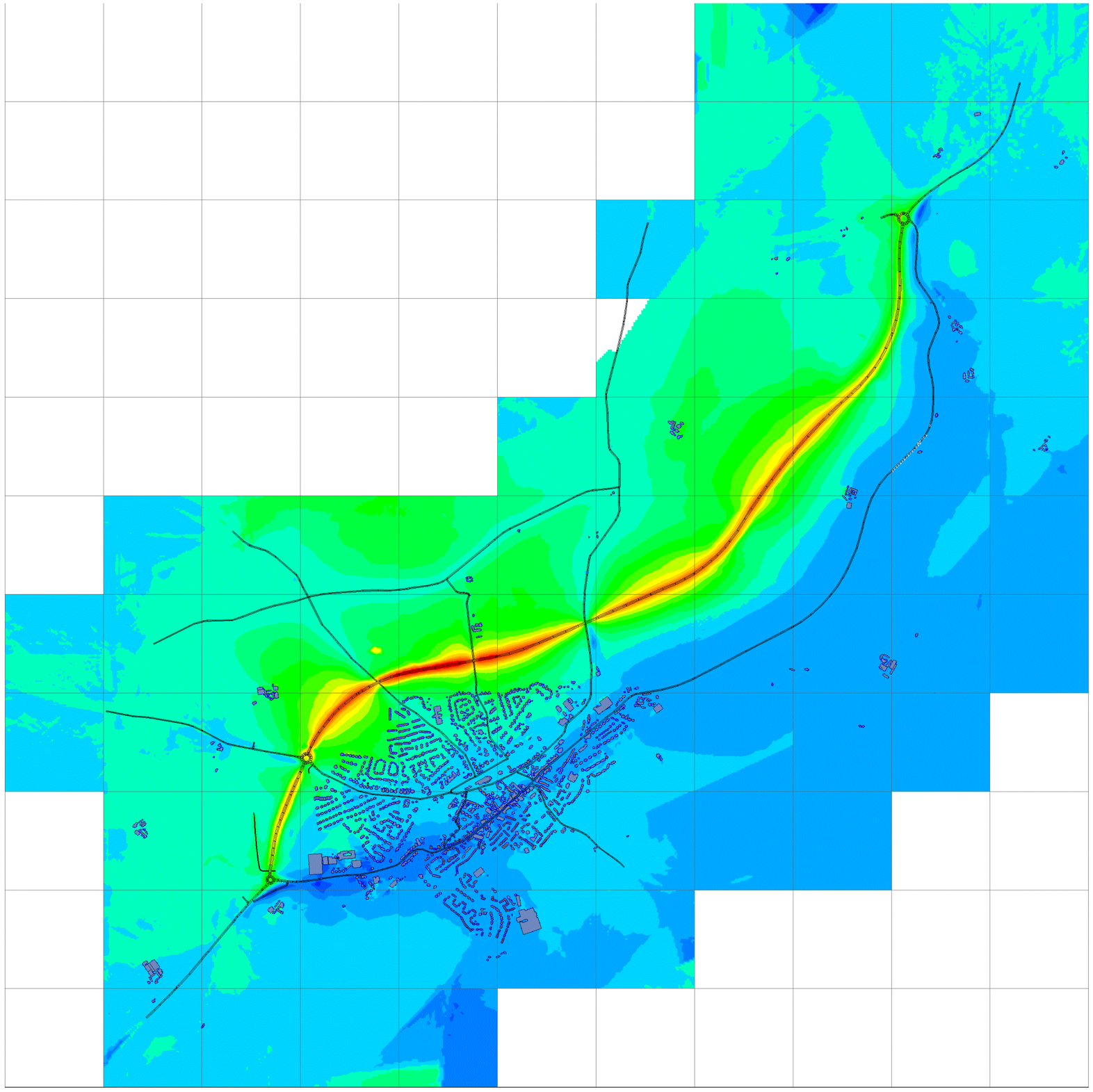
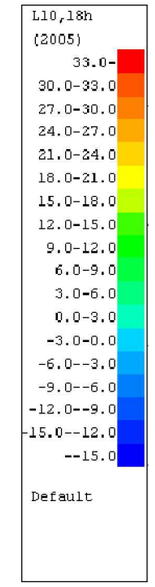
File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\noise drawings\25000182_env_9.2 rev 1.dwg



Notes

These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.



Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

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Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client

TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise Change
Do-Something 2018 -
Do-Minimum 2018
(short term) contour map

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.2	1

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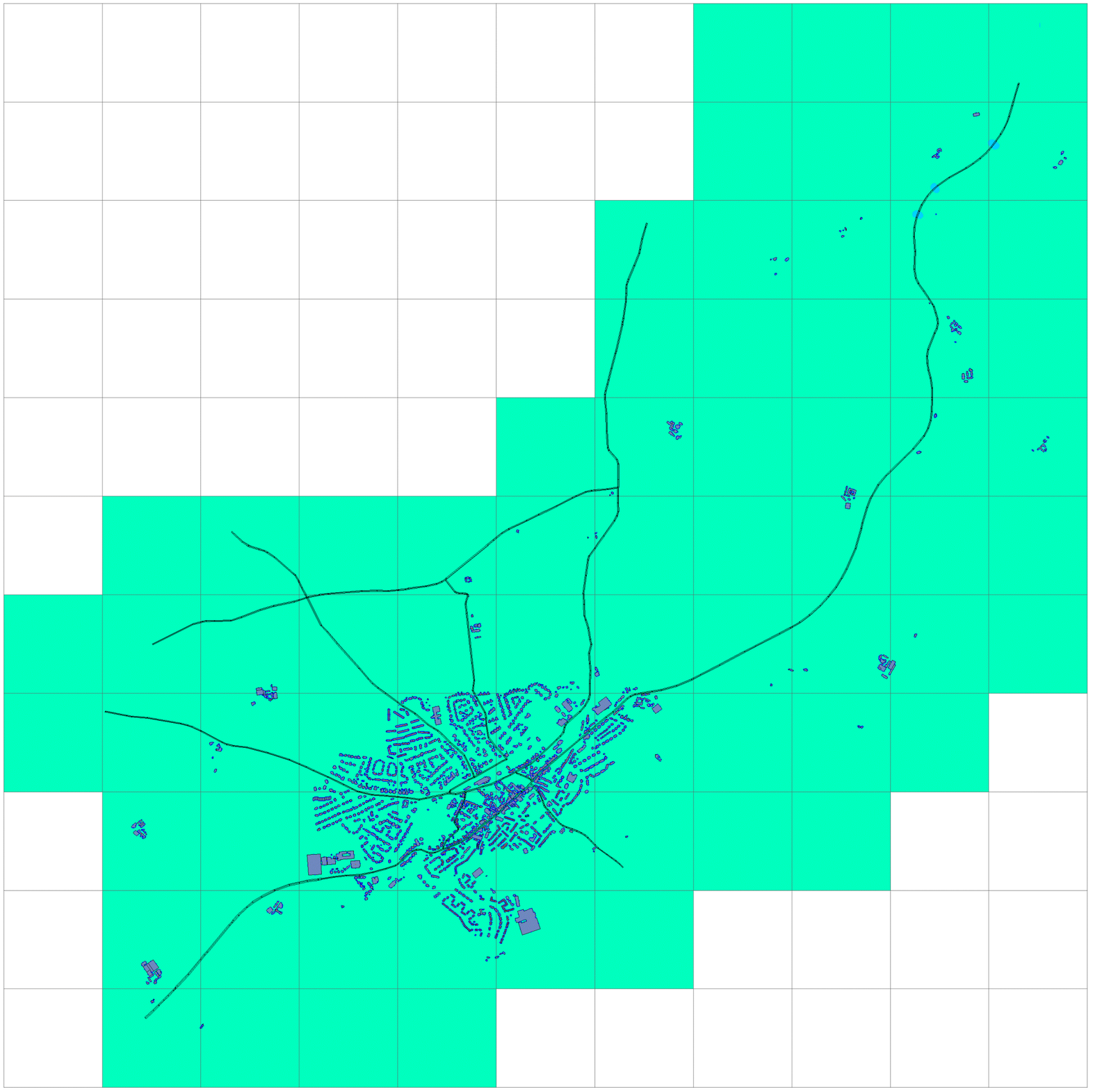

Notes

These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.

Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise change
Do-Minimum 2033 -
Do-Minimum 2018
(long term) contour map

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.3	1

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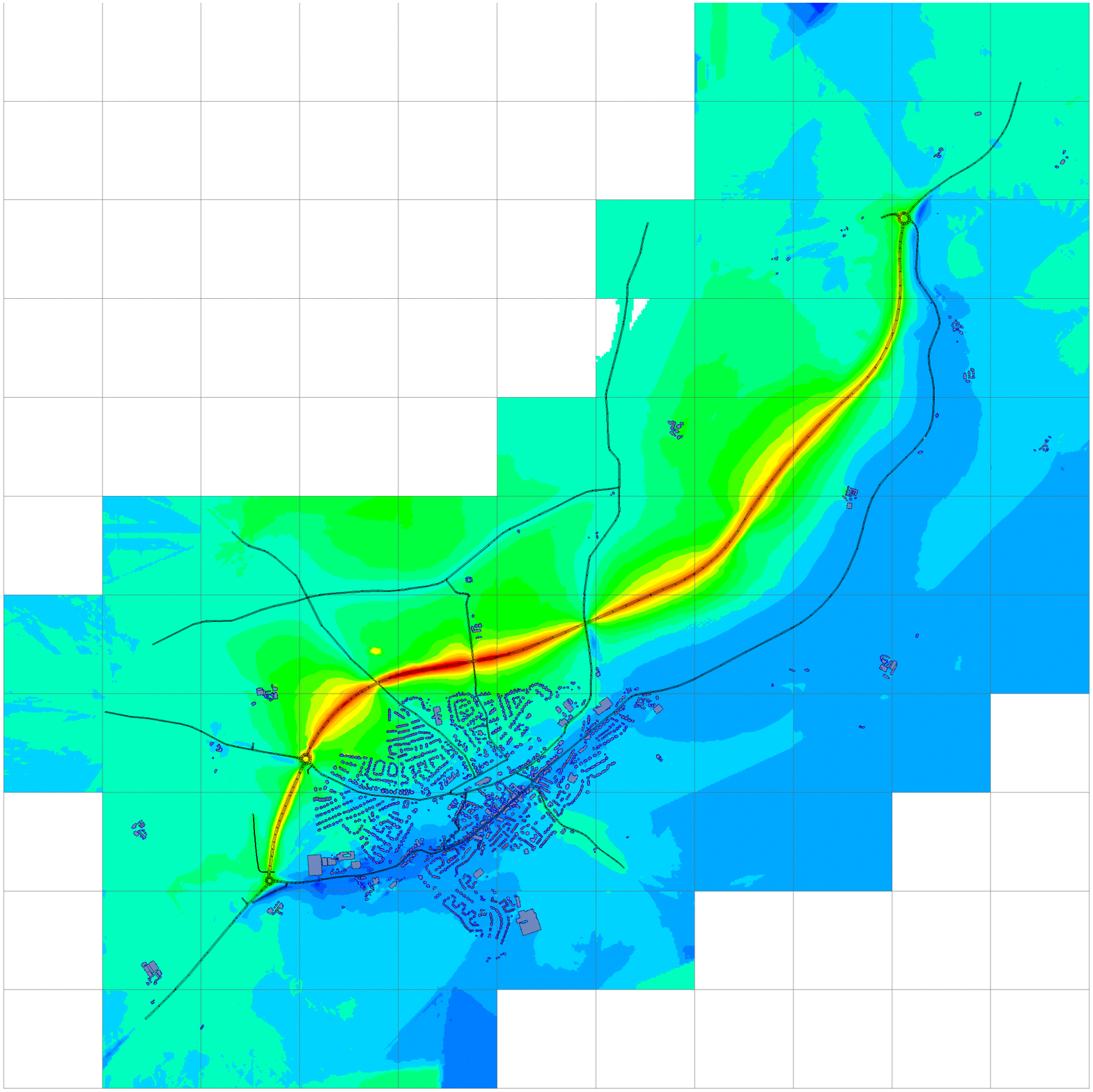

Notes

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Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
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Date: 16/08/2013		As constructed	
		Other	

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Client

TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise change
Do-Something 2033 - Do-Minimum 2018
(long term) contour map

Original Drg Size : A3	Dimensions : -
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Drawing No	Rev
25000182/ENV/9.4	1

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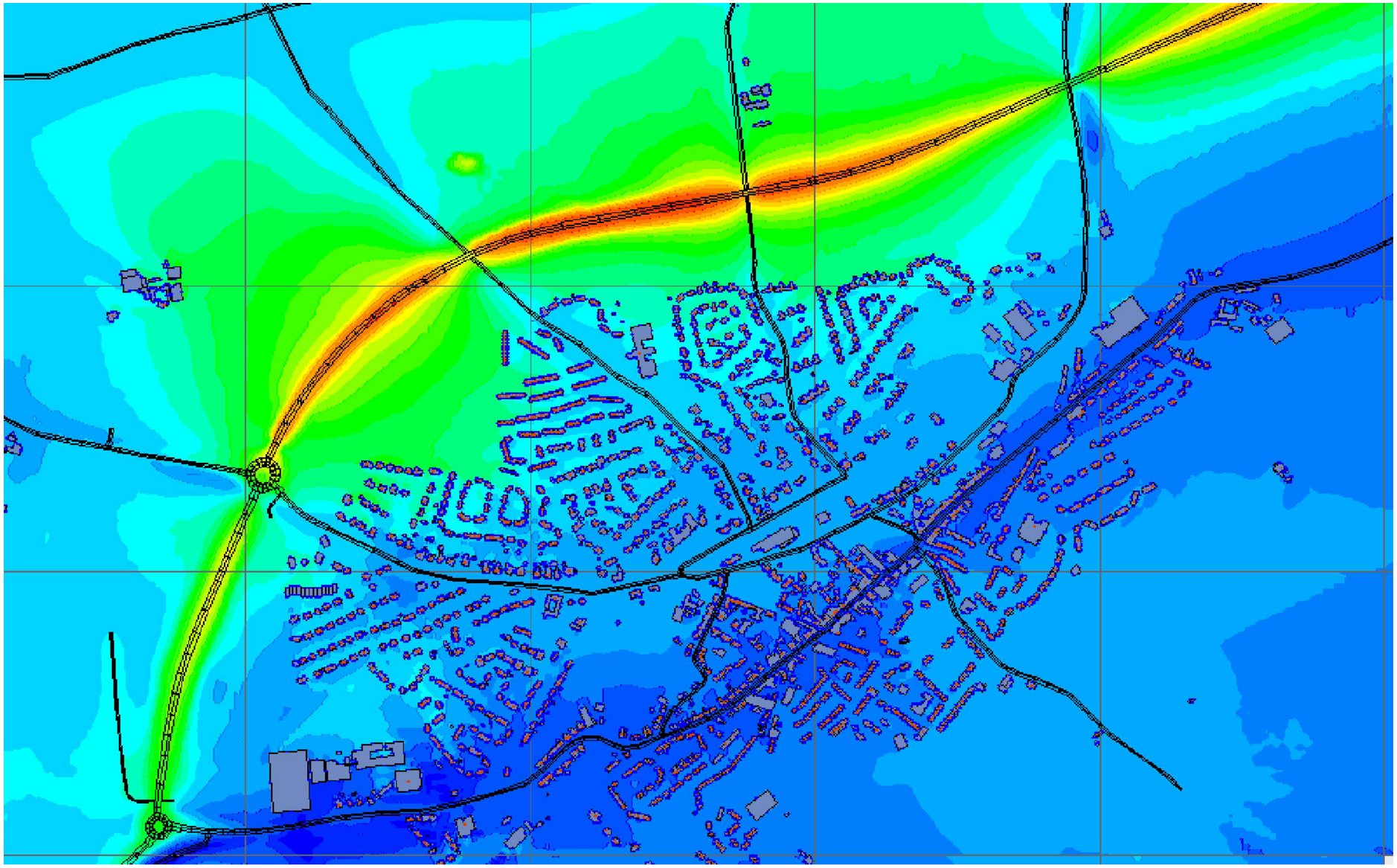

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1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
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Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise Change
Do-Something 2018 - Do-Minimum 2018
(short term) enlarged view

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.5	1

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File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\noise drawings\25000182_env_9.6 rev 1.dwg

Notes

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Rev	Revision details	Chkd	Appd	Date
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Date: 16/08/2013		As constructed	
		Other	

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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise change
Do-Minimum 2033 -
Do-Minimum 2018
(long term) enlarged view

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.6	1

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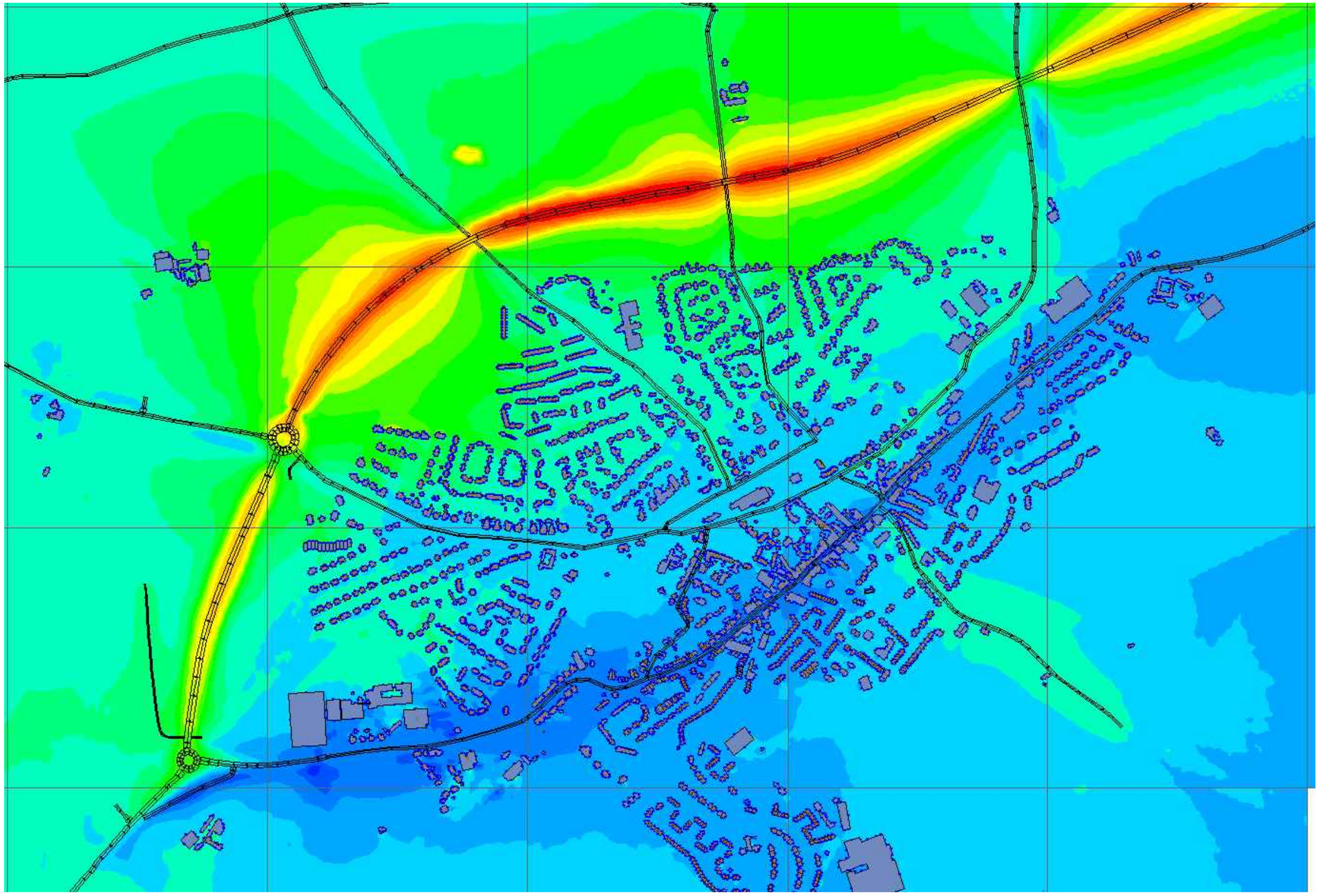

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These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.

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Chkd: OF		For tender	
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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Noise change
Do-Something 2033 - Do-Minimum 2018
(long term) enlarged view

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.7	1

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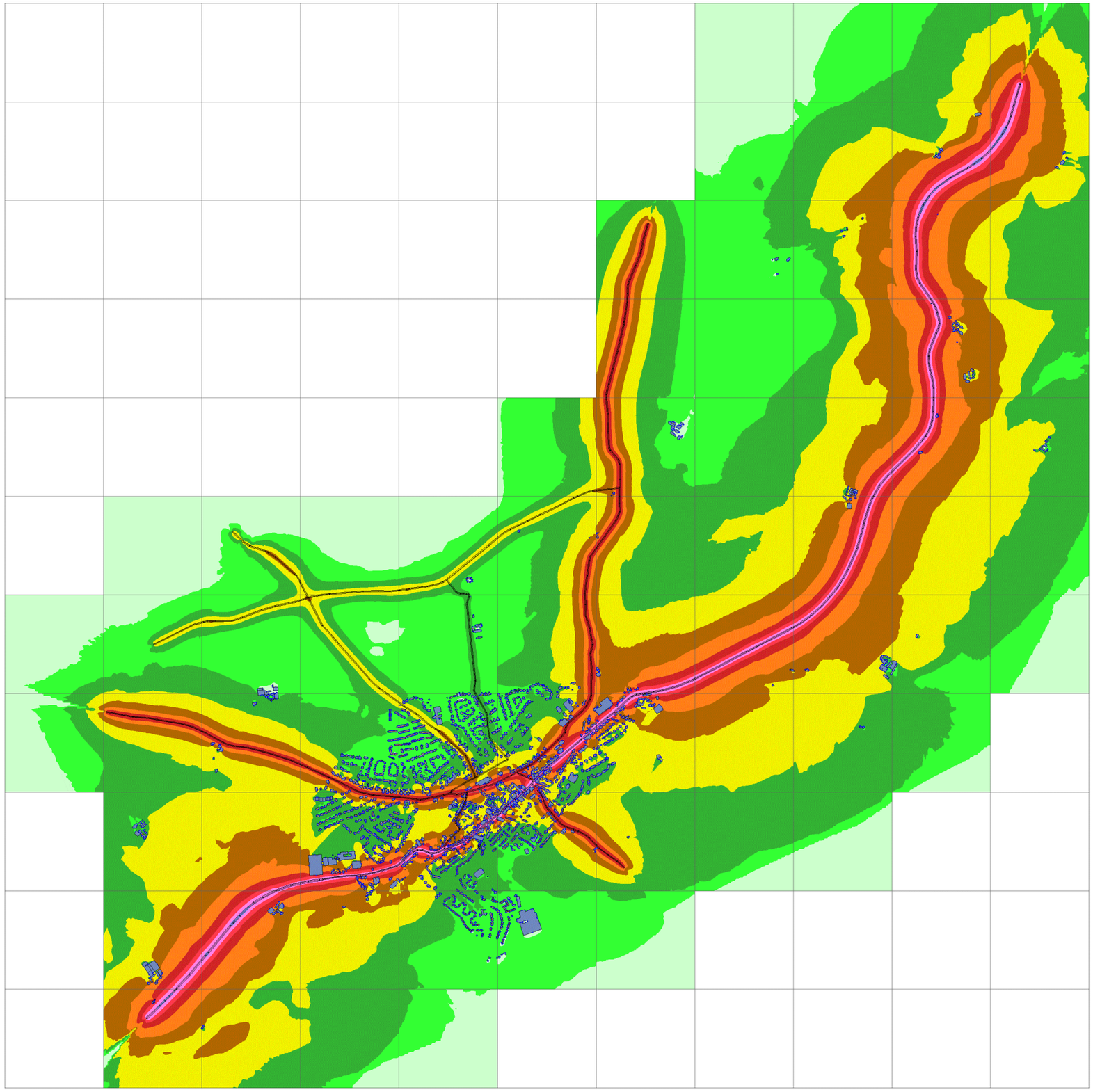
File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\noise drawings\25000182_env_9.8 rev 1.dwg



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Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client

TRANSPORT SCOTLAND

Project Name

A77 Maybole Bypass

Drawing Title

Do-Minimum 2018 - Noise Levels

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.8	1

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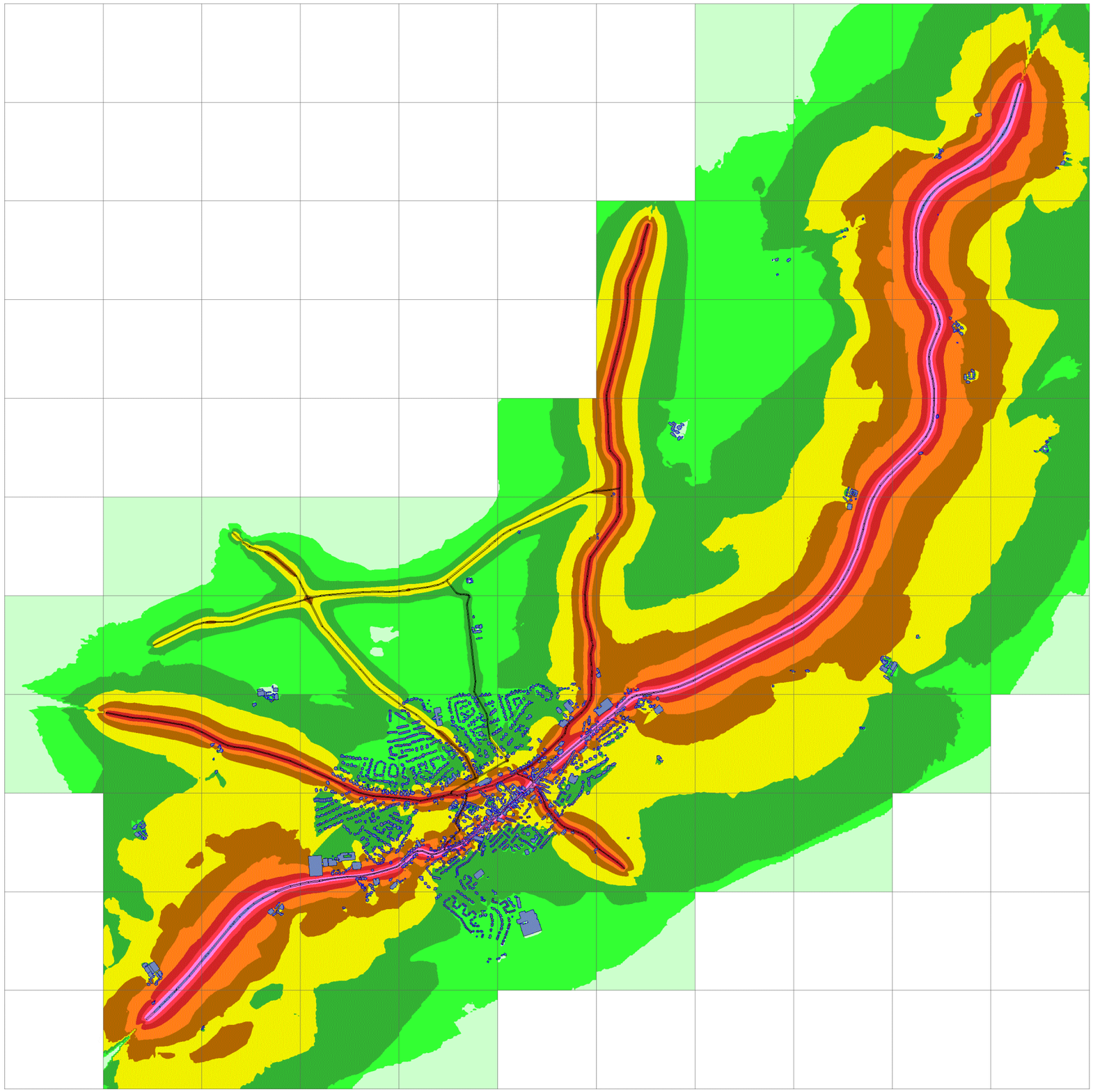

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These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.

Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Do-Minimum 2033 - Noise Levels

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
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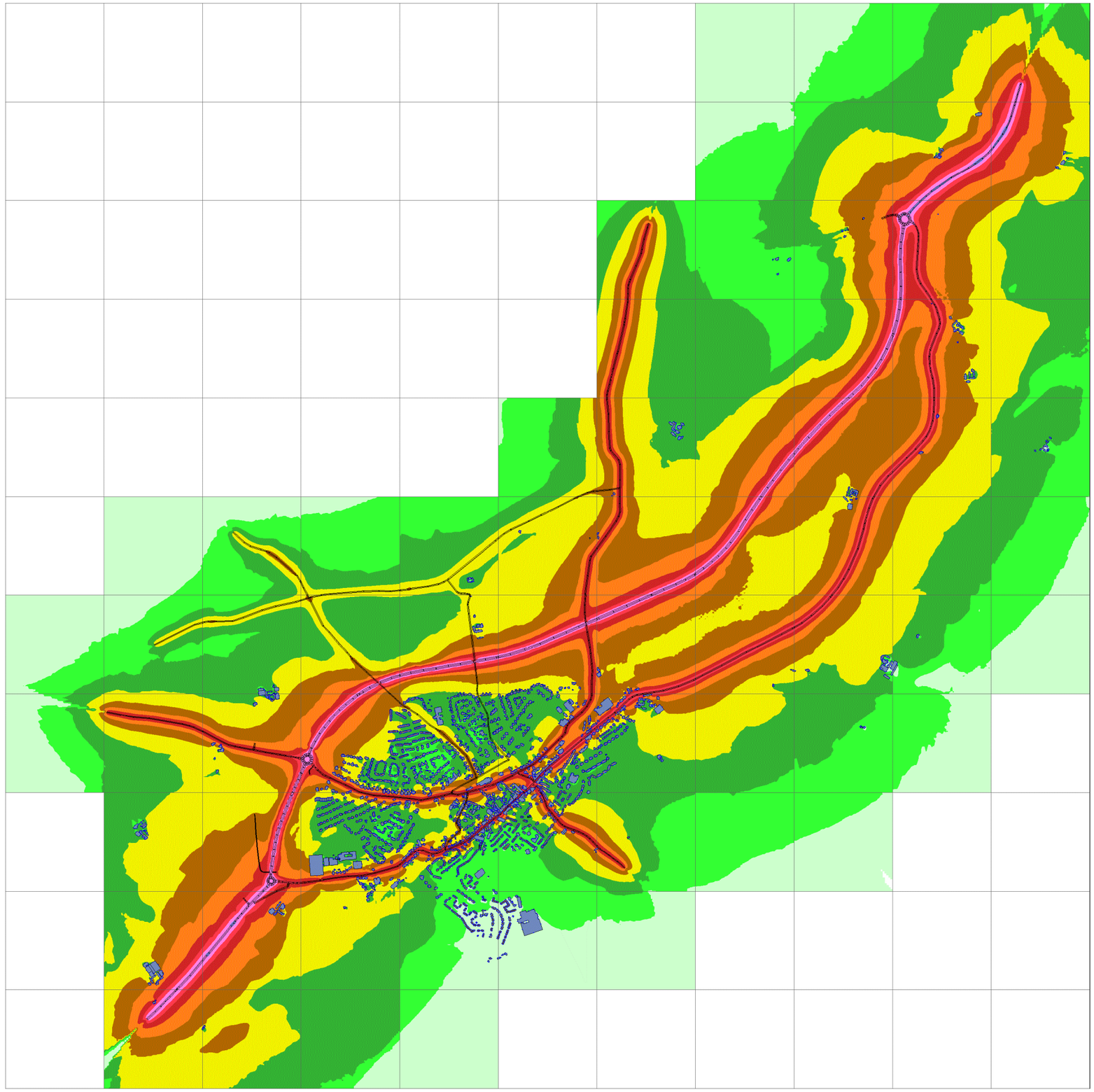

Notes

These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.

Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client

TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Do-Something 2018 - Noise levels

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.10	1

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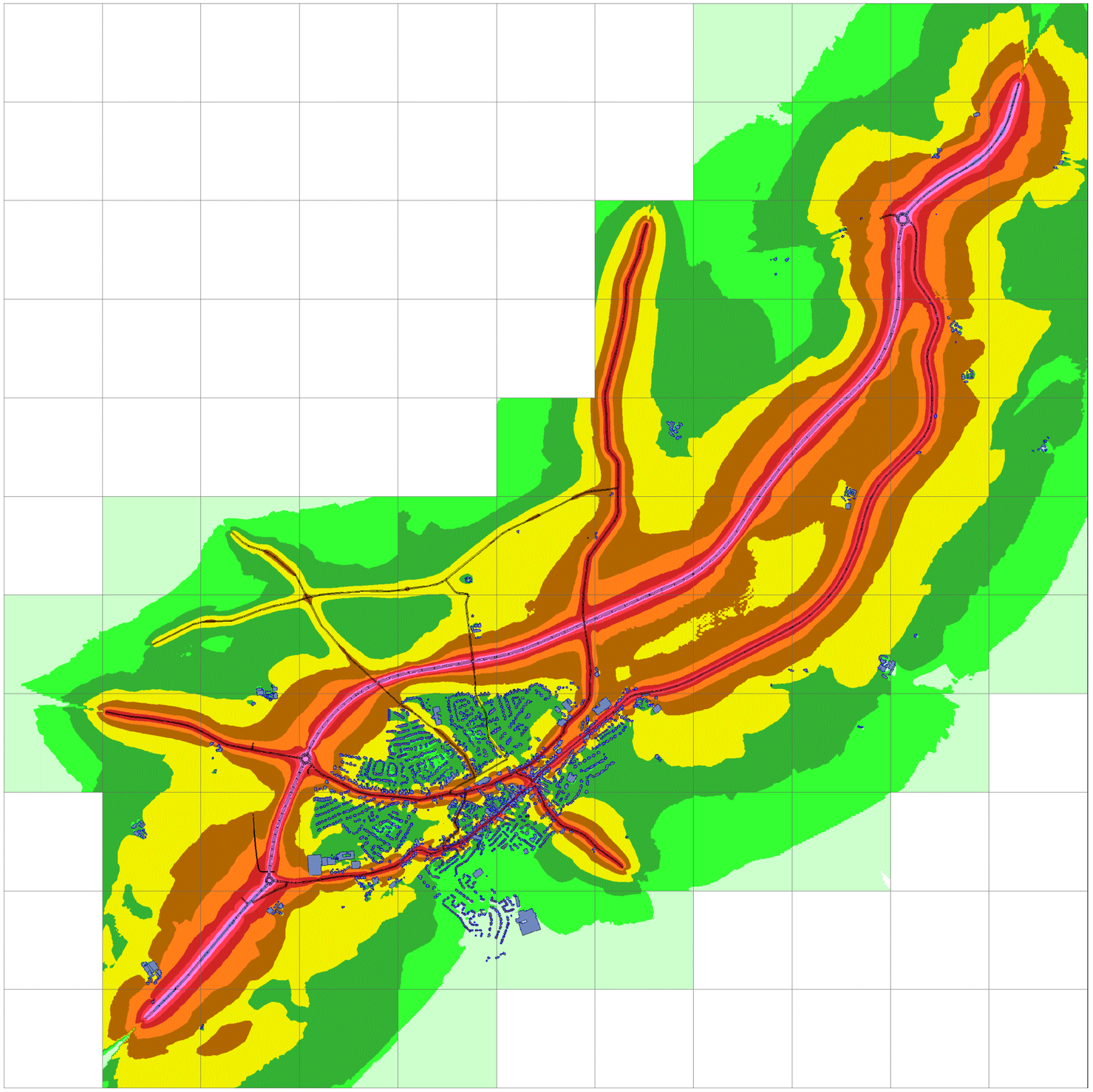

Notes

These noise levels are noise levels/change in noise levels predicted at 4 m above the ground.

Rev	Revision details	Chkd	Appd	Date
1	Study Area Updated	MR	GM	23/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Do-Something 2033 - Noise levels

Original Drg Size : A3	Dimensions : -
Scale : NTS	Copyright © Amey

Drawing No	Rev
25000182/ENV/9.11	1

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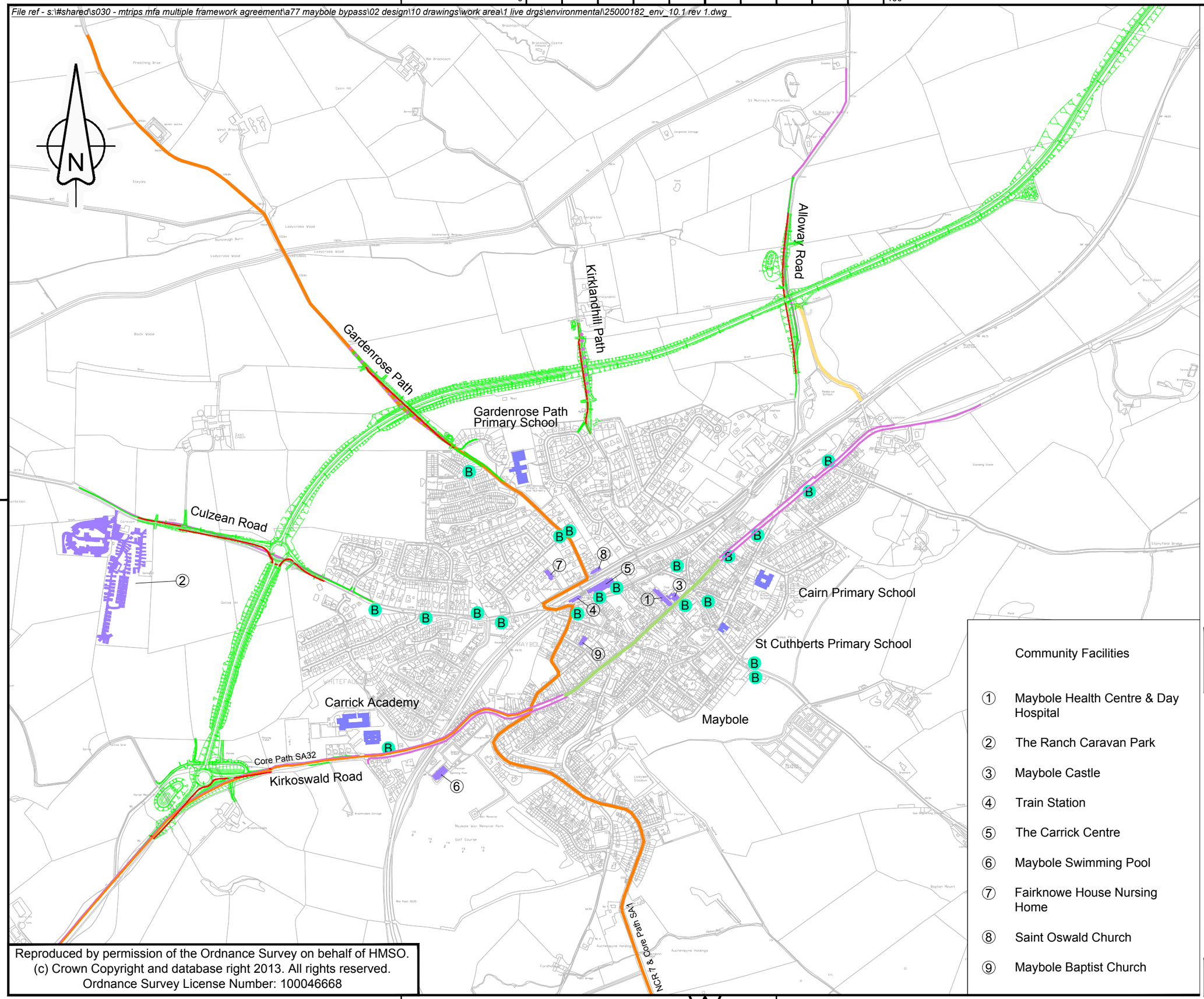

Key

- National Cycle Route 7 Core Path SA1 & SA32
- Existing Footway
- Proposed Footway
- High Street
- Lovers Lane
- School
- B Bus Stop
- Recreational Usage
- Proposed A77 Alignment

Community Facilities

1. Maybole Health Centre & Day Hospital
2. The Ranch Caravan Park
3. Maybole Castle
4. Train Station
5. The Carrick Centre
6. Maybole Swimming Pool
7. Fairknowe House Nursing Home
8. Saint Oswald Church
9. Maybole Baptist Church

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes & proposed footway amendments	MR	GM	28/10/13

Drawn: SC	
Design: MR	
Chkd: OF	
Appd: GM	
Date: 16/08/2013	

Preliminary	
For comment	✓
For tender	
For construction	
As constructed	
Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Pedestrians & Others

Original Drg Size : A3	Dimensions : m
Scale : 1:10,000	Copyright © Amey

Drawing No 25000182/ENV/10.1
Rev 1

File ref - s:\#shared\s030 - mtrips mfa multiple framework agreement\a77 maybole bypass\02 design\10 drawings\work area\1 live drgs\environmental\25000182_env_11.1 rev 1.dwg

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N

Fig. 11.7

Fig. 11.6

Fig. 11.4

Fig. 11.5

Fig. 11.3

Fig. 11.1

Fig. 11.2

Key

Existing A77 Alignment

Proposed A77 Alignment

Figure locations within Chapter 11 of Environmental Statement

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes & revised Fig. numbers	MR	GM	28/10/13

Drawn: SC	Preliminary		
Design: MR	For comment	✓	
Chkd: OF	For tender		
Appd: GM	For construction		
Date: 16/08/2013	As constructed		
	Other		

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TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Vehicle Travellers

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/11.1	1

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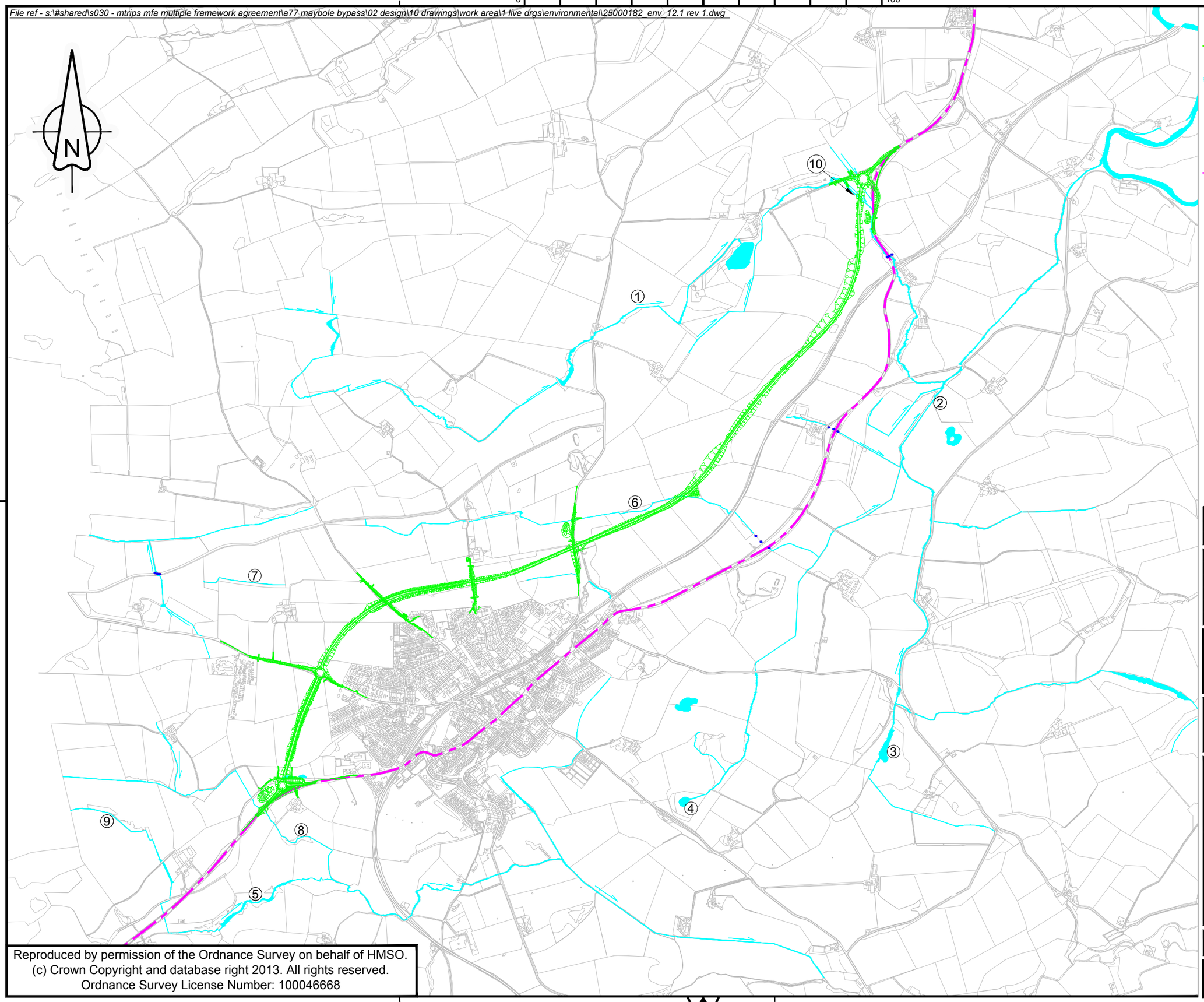

Key

- Preferred Alignment
- Water Feature (River, burn, loch,pond, watercourse)
- Bridge or Culvert
- Flow Direction
- Existing Carriageway

① Brockloch Burn (unclassified by SEPA)
② Chapelton Burn (unclassified by SEPA)
③ Chapelton Loch (unclassified by SEPA)
④ Heart Loch (unclassified by SEPA)
⑤ Abbeymill Burn (unclassified by SEPA)
⑥ Black Glen Burn (unclassified by SEPA)
⑦ Garden Rose Burn
⑧ Parish March Burn
⑨ Barlewan Burn
⑩ Bankend Bridge

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC		Preliminary	
Design: MR		For comment	✓
Chkd: OF		For tender	
Appd: GM		For construction	
Date: 16/08/2013		As constructed	
		Other	

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Client
TRANSPORT SCOTLAND

Project Name
A77 Maybole Bypass

Drawing Title
Environmental Watercourses

Original Drg Size : A3	Dimensions : m
Scale : 1:20,000	Copyright © Amey

Drawing No	Rev
25000182/ENV/12.1	1

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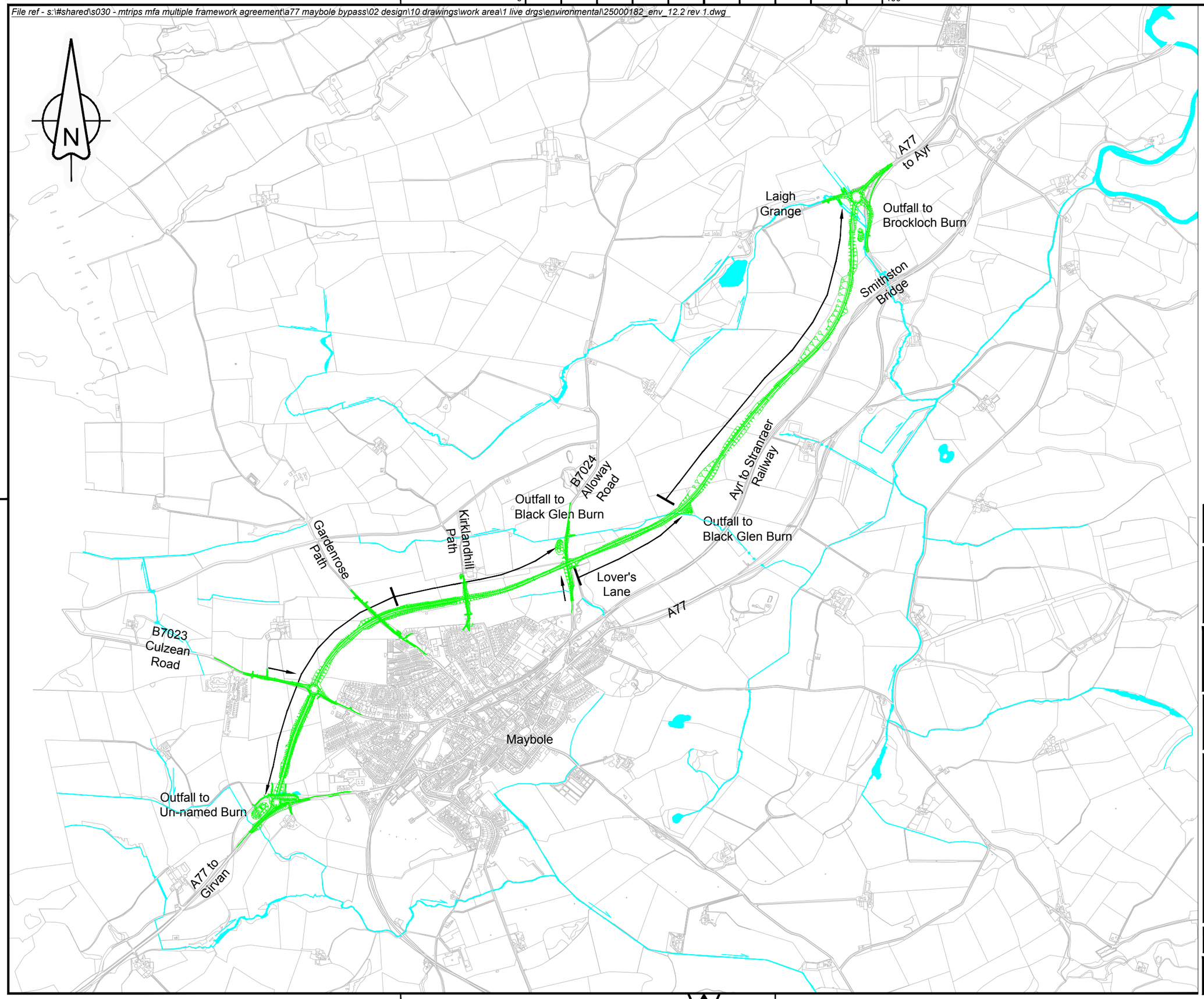

Key

- Water Feature (River, burn, loch,pond, watercourse)
- Preferred Alignment
- Attenuation and treatment pond
- Flow Direction

Notes

1. Principal drainage outfalls shown for mainline at B7023 Culzean Road and B7024 Alloway Road
2. Smaller side road drainage outfall with infiltration/trench

Rev	Revision details	Chkd	Appd	Date
1	Minor layout changes	MR	GM	28/10/13

Drawn: SC	Preliminary		
Design: MR	For comment	✓	
Chkd: OF	For tender		
Appd: GM	For construction		
Date: 16/08/2013	As constructed		
	Other		

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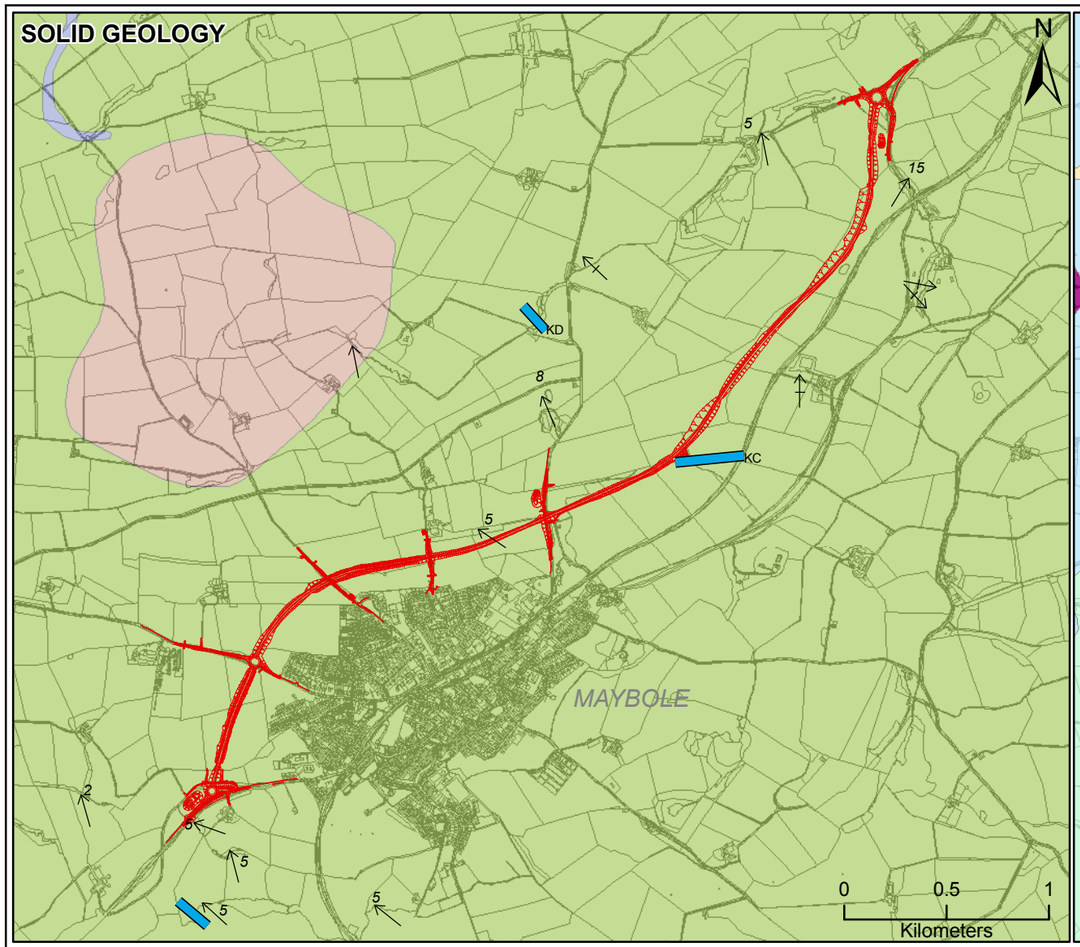
Client
TRANSPORT SCOTLAND

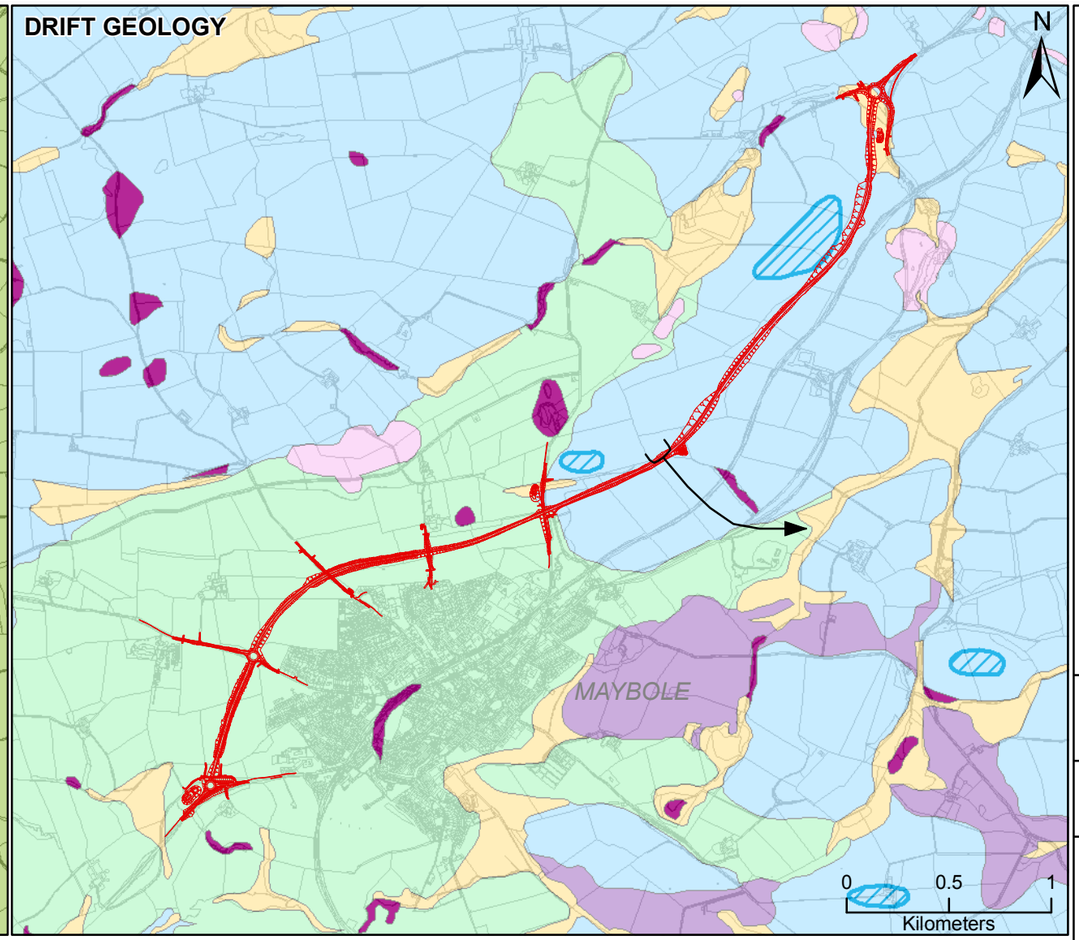
Project Name
A77 Maybole Bypass

Drawing Title
Principal Drainage Outfalls

Original Drg Size : A3	Dimensions : m
Scale : 1:20000	Copyright © Amey

Drawing No	Rev
25000182/ENV/12.2	1





SOLID GEOLOGY

- Isle Port Conglomerate Member - Conglomerate
- Swanshaw Sandstone Formation - Sandstone
- Swanshaw Sandstone Formation - Volcaniclastic-Sandstone

Tertiary

KD — Outcrops

Basaltic or doleritic rock: dark coloured, composed of calcic plagioseclase, pyroxene, olivine and iron ore

KC Crinanite and allied basalt: contain olivine and normally some analcime

BEDDING

- Vertical Bedding
- Direction in which younger beds come on in steeply inclined or vertical strata

DRIFT GEOLOGY

RECENT AND PLEISTOCENE

- Drumlin - Ice-moulded mound of bolder clay elongated in the direction of ice-flow
- Alluvium - Clay Silt Sand + Gravel
- Glaciofluvial Deposits - Sand + Gravel
- Glaciofluvial Ice Contact Deposits - Sand + Gravel
- Hummocky - Moundy Glacial Deposits
- Till - Diamicton

ORDOVICIAN TO TERTIARY

- Bedrock at or near surface
- Glacial drainage channel showing direction of water-flow

EXPLANATION

Isle Port Conglomerate Member - Conglomerate: Sedimentary Bedrock formed approximately 391 to 423 million years ago in the Devonian and Silurian Periods. Local environment previously dominated by rivers.

Swanshaw Sandstone Formation - Volcaniclastic-Sandstone: Sedimentary Bedrock formed approximately 391 to 423 million years ago in the Devonian and Silurian Periods. Local environment previously dominated by rivers.

Swanshaw Sandstone Formation - Sandstone: Sedimentary Bedrock formed approximately 391 to 423 million years ago in the Devonian and Silurian Periods. Local environment previously dominated by rivers.

Alluvium - Clay, Silt, Sand + Gravel: Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by rivers.

Glaciofluvial Deposits - Sand And Gravel: Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions.

Glaciofluvial Ice Contact Deposits - Sand + Gravel: Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions.

Hummocky (Moundy) Glacial Deposits - Diamicton, Clay, Sand + Gravel: Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions.

Till - Diamicton: Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions.

Legend

Maybole Bypass

Rev	Revision Details	Chkd	Appd	Date
1	Minor Layout Changes	MR	GM	28/10/2013

Drawn : VM	Preliminary
Design : GW	For Comment ✓
Chkd : MW	For tender
Appd : GH	For construction
Date : 28/06/2013	As constructed
	Other

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Client : TRANSPORT SCOTLAND

Project Name :
A77 Maybole Bypass

Drawing Title :
Drift and Solid Geology

Original Drawing Size : A3	
Scale : 1:30,000	Dimensions :

Drawing No	Rev
25000182/ENV/13.1	1