Volume 2 Technical Appendices
Technical Appendix A
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Townscape and Visual

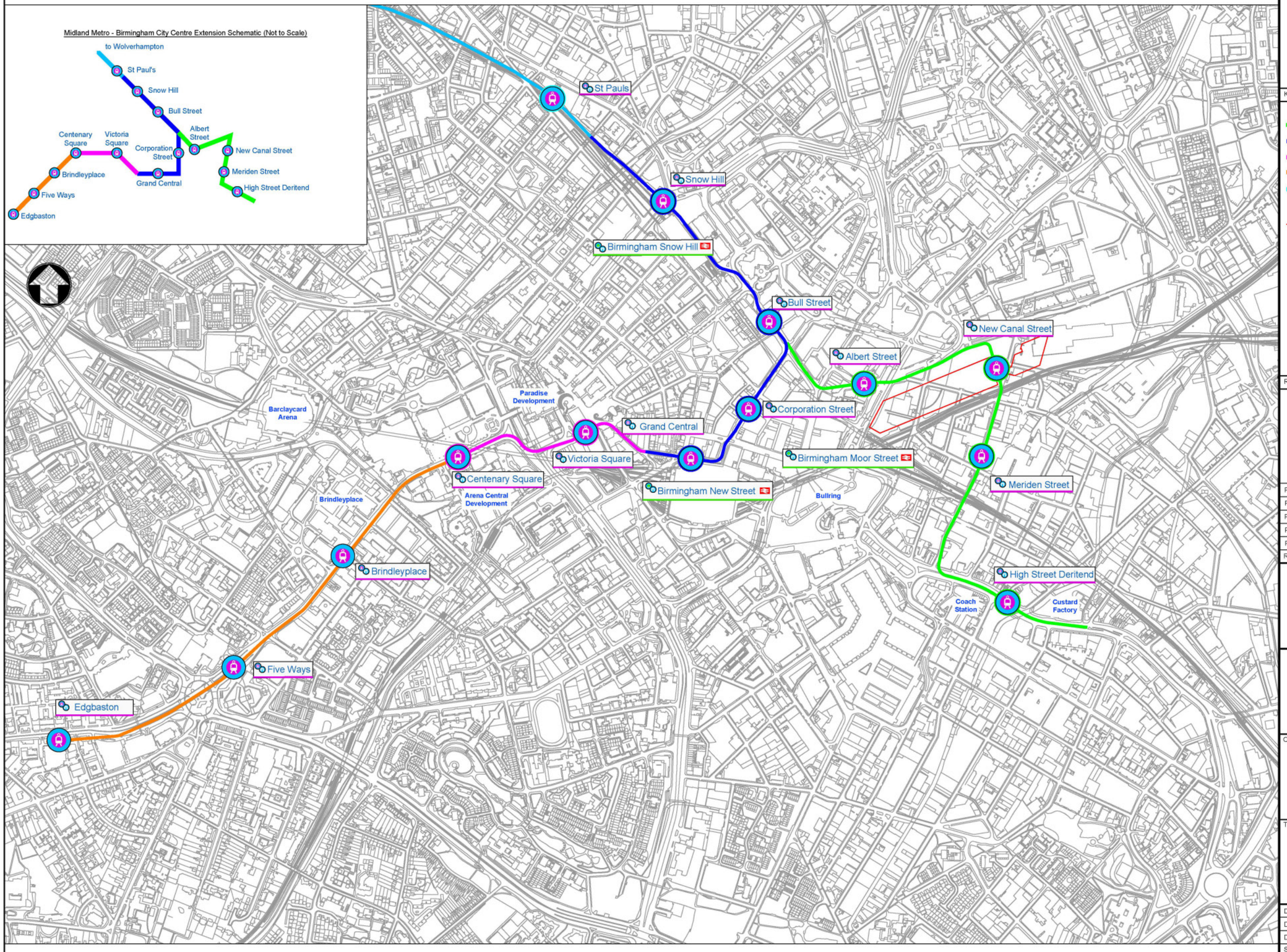
MMD-300207-HS30-DRA-0000-0201 – Townscape Viewpoint Plan
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Notes

1. Do not scale from this drawing.
2. All dimensions are in metres unless otherwise stated.

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Centenary Square Extension
- Edgbaston Extension
- Existing Line One
- Midland Metro Tram Stop
- HS2 Curzon Street Station (indicative)

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P5	25.08.16	JK	Airport Route and Sprint Removed	CS	GJL
P4	25.01.16	MWD	Airport Route added	NH	GJL
P3	20.11.15	JK	HS2 Station Added and routes updated	CS	GJL
P2	16.10.15	MWD	BEE schematic updated	NH	GJL
P1	15.10.15	MWD	Preliminary Issue	NH	GJL

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Client
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16 Summer Lane
Birmingham
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Title
Midland Metro
Birmingham City Centre Extension
Existing and Proposed
Metro Routes

Designed	-	-	Eng check	N.Huntley	NRH
Drawn	M. Donovan	MWD	Coordination	N.Huntley	NRH
Dwg check	A. Griffiths	AG	Approved	G.Last	GJL

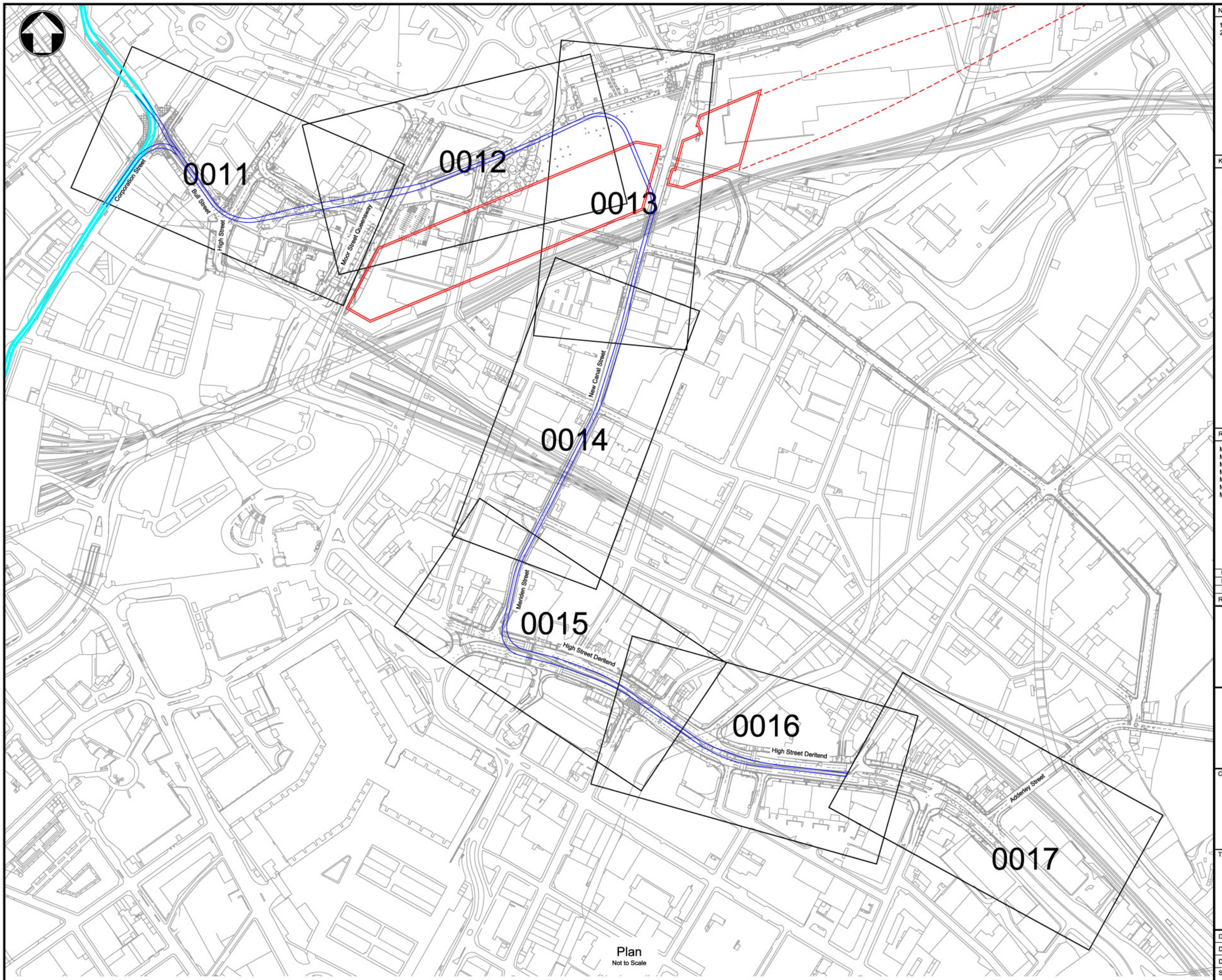
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NTS	PRE	P5

Drawing Number
MMD-300207-ED00-DRA-0000-0101

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Plan
Not to Scale

Notes

1. All dimensions are in metres unless otherwise stated.
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Key to symbols

- Indicative BEE Route
- Indicative BCCE Route
- HS2 Station Building outline (indicative only)
- HS2 Viaduct outline (indicative only)

Reference drawings

MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
MMD-300207-HS29-DRA-0000-0015 - Route Layout (Sheet 5 of 7)
MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	15/09/2016	JK	Revised Alignment.	CMS	GJL
P2	29/04/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Route Layout
Key Plan

Designed	E.Quarshie		Eng check	C. Searson	
Drawn	E.Quarshie		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

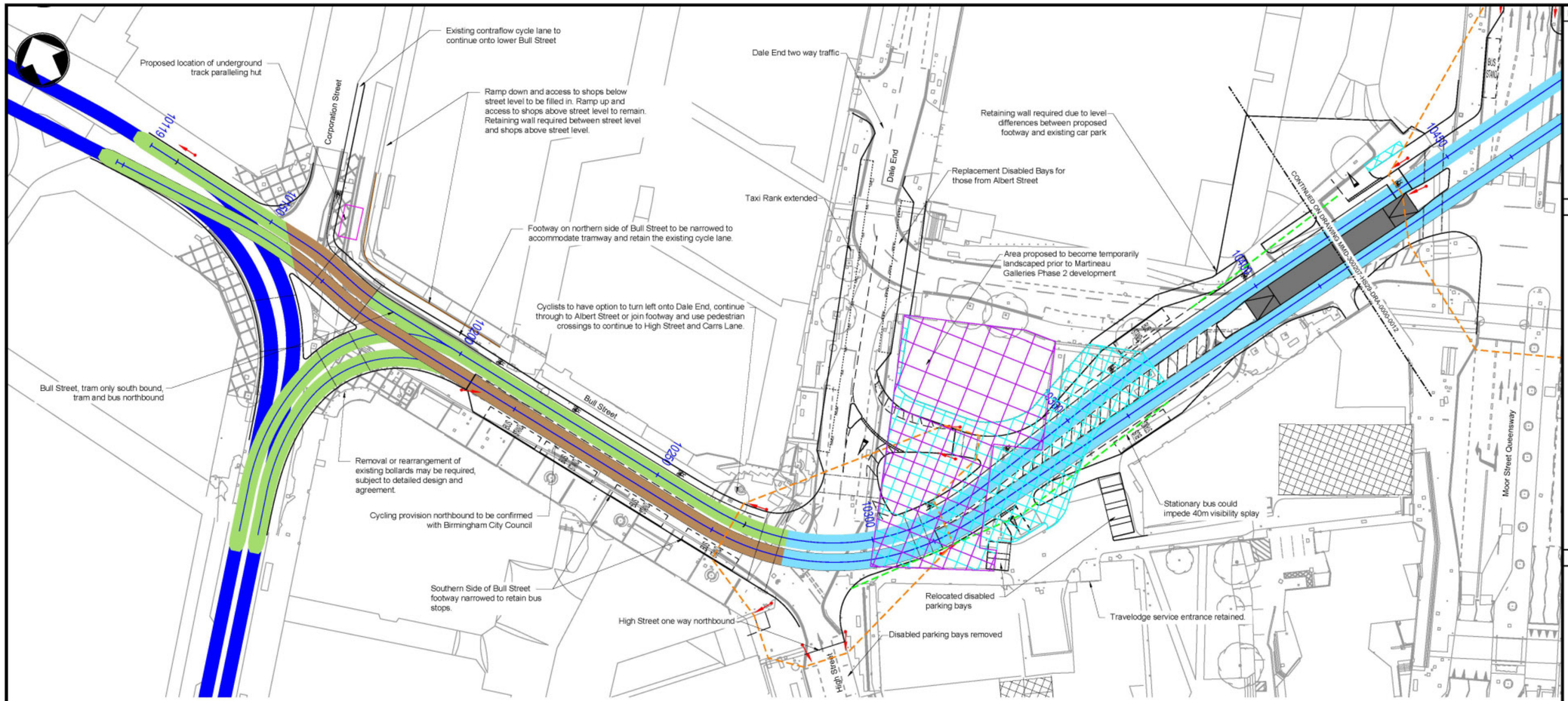
Scale at A1	Status	Rev
As Shown	PRE	P3

Drawing Number
MMD-300207-HS29-DRA-0000-0010

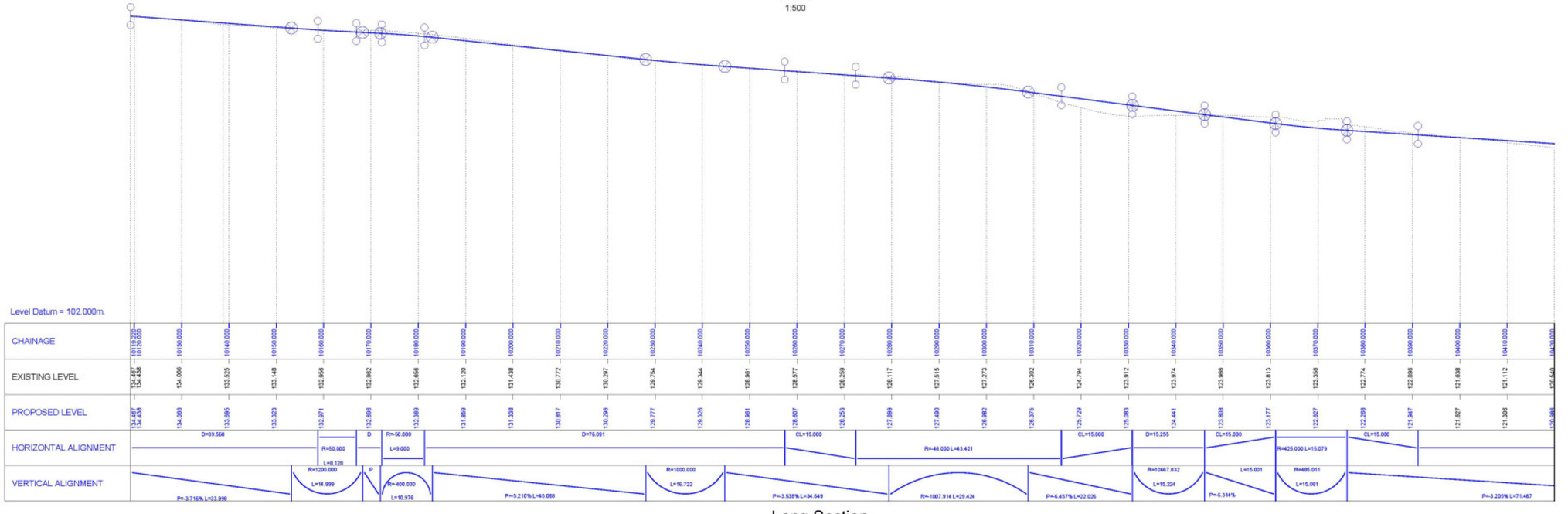
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Plan
1:500



Long Section
Chainage 10119 to 10420
Scale - H = 1:500, V = 1:250

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1:500 0 25m 50m
1:250 0 12.5m 25m

Notes

1. All dimensions are in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.
3. Service locations not considered during design.
4. The Developed Kinematic Envelope (DKE) of the tram is based upon the updated Generic Tram DKE Model for 'Type A Vehicles'. Refer to Mott MacDonald Ltd report reference MMD-300207-SL02-DOC-0001.
5. Footway and platform widths are subject to modeling.
6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:
- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:
- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
MMD-300207-HS29-DRA-0000-0015 - Route Layout (Sheet 5 of 7)
MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	15/09/2016	JK	Updated Long Section.	CMS	GJL
P3	18/08/2016	JK	Revised Highway Alignment.	CMS	GJL
P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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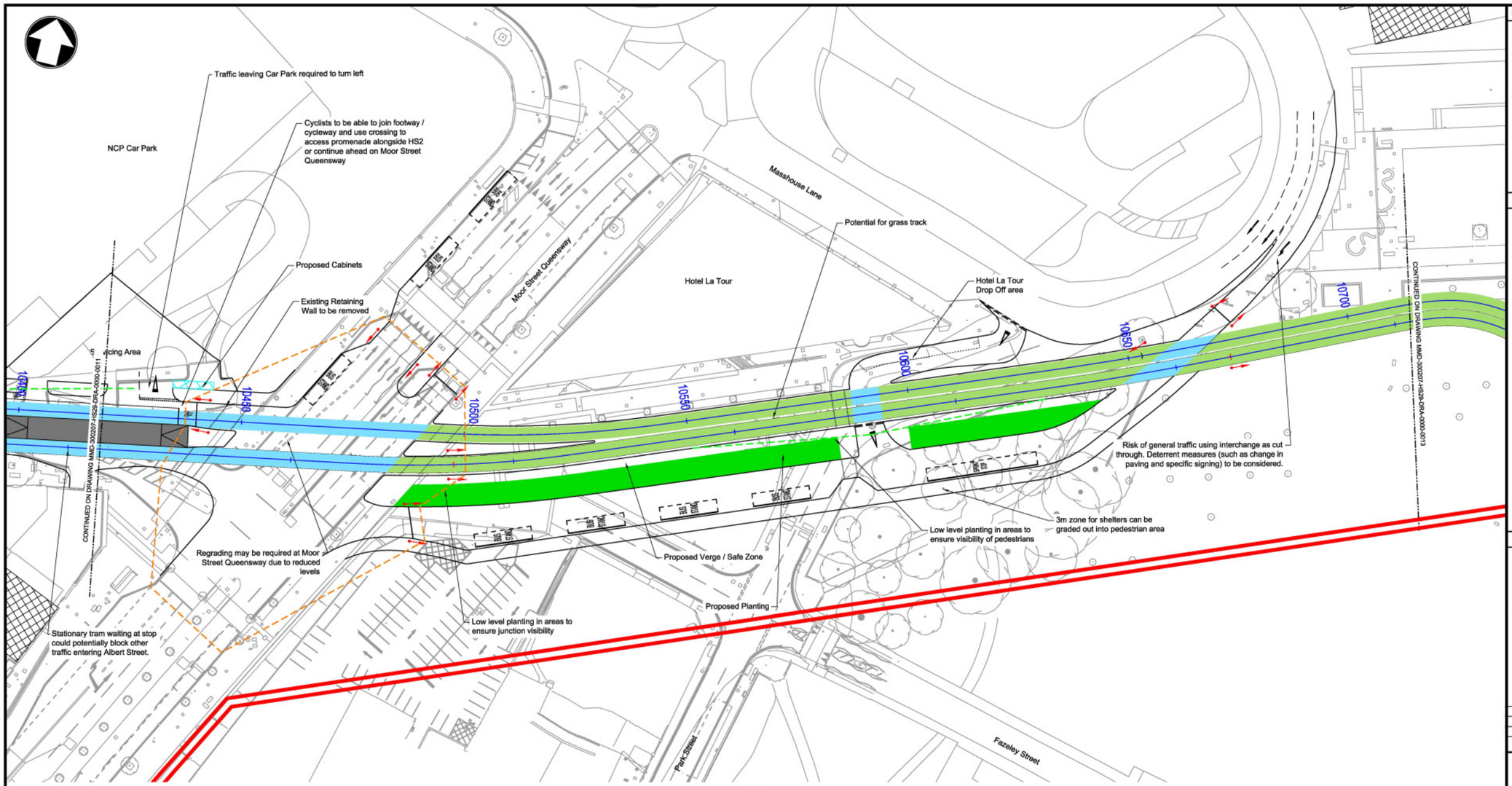
Client
Centro
Centro House
16 Summer Lane
Birmingham
B19 3SD

Title
Midland Metro Phase 2
Birmingham Eastside Extension
Route Layout
(Sheet 1 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1	Status	Rev
As Shown	PRE	P4

Drawing Number
MMD-300207-HS29-DRA-0000-0011



Plan
1:500



Long Section
Chainage 10420 to 10720
Scale - H = 1:500, V = 1:250

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1:500 0 25m 50m
1:250 0 12.5m 25m

Notes

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6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:
- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
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- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:
- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
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MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
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MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	12/09/2016	JK	Long Section Updated.	CMS	GJL
P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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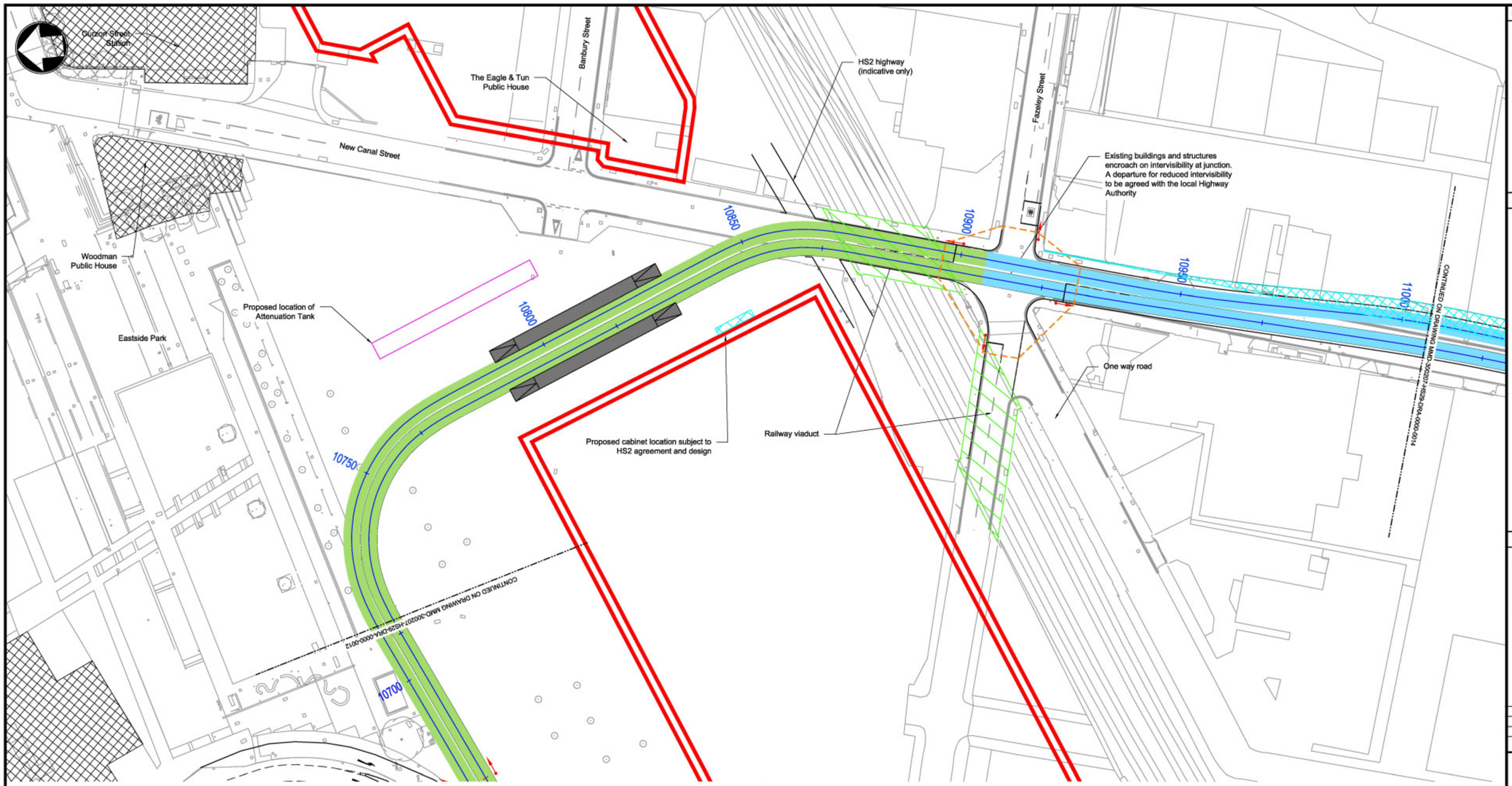
Client
Centro
Centro House
16 Summer Lane
Birmingham
B19 3SD

Title
Midland Metro Phase 2
Birmingham Eastside Extension
Route Layout
(Sheet 2 of 7)

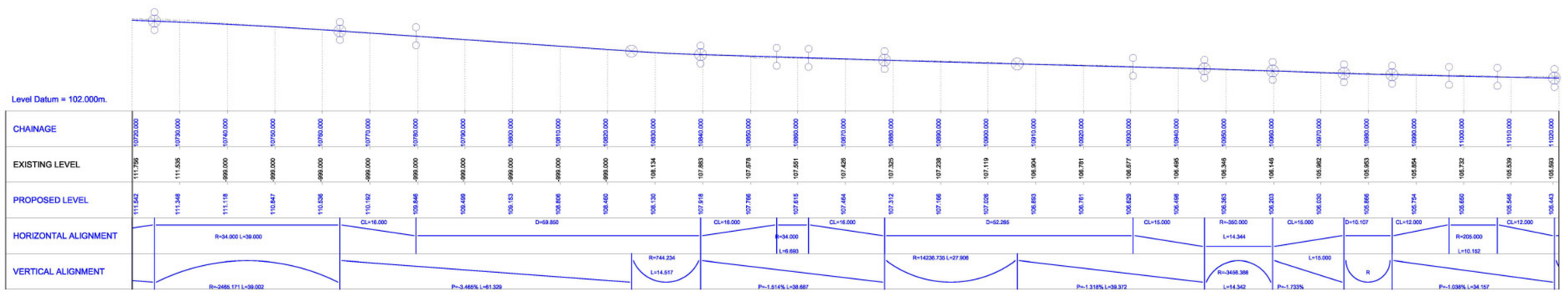
Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1: As Shown
Status: PRE
Rev: P3

Drawing Number
MMD-300207-HS29-DRA-0000-0012



Plan
1:500



Long Section
Chainage 10720 to 11020
Scale - H = 1:500, V = 1:250

Notes

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2. Do not scale any items or information from this drawing.
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4. The Developed Kinematic Envelope (DKE) of the tram is based upon the updated Generic Tram DKE Model for 'Type A Vehicles'. Refer to Mott MacDonald Ltd report reference MMD-300207-SL02-DOC-0001.
5. Footway and platform widths are subject to modeling.
6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:

- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:

- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
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MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
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P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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Client
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B19 3SD

Title
Midland Metro Phase 2
Birmingham Eastside Extension
Route Layout
(Sheet 3 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1: As Shown
Status: PRE
Rev: P3

Drawing Number
MMD-300207-HS29-DRA-0000-0013

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1:500 0 25m 50m
1:250 0 12.5m 25m

Land allowed for electrical cabinets

Minimum 2m footway provided around platforms subject to modeling.

Bordesley Street

Railway Viaduct

Proposed substation

Coventry Street

Meriden Street

New Canal Street

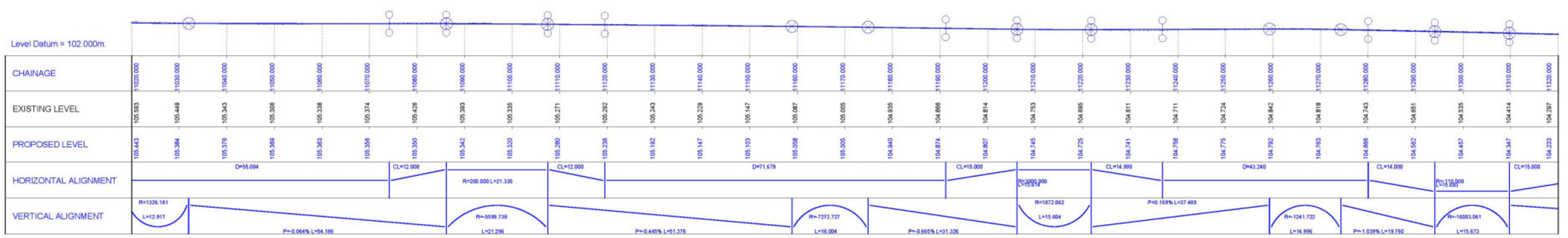
Allison Street

Existing buildings encroach on intervisibility at junction. A departure for reduced intervisibility to be agreed with the local Highway Authority

CONTINUED ON DRAWING MMD-300207-HS29-DRA-0000-0013

CONTINUED ON DRAWING MMD-300207-HS29-DRA-0000-0015

Plan
1:500



Long Section
Chainage 11020 to 11320
Scale - H = 1:500, V = 1:250

Notes

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6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:

- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
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- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
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- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:

- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
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MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

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P3	18/08/2016	JK	Updated Long Section.	CMS	GJL
P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Key Plan
(Sheet 4 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1	Status	Rev
As Shown	PRE	P3

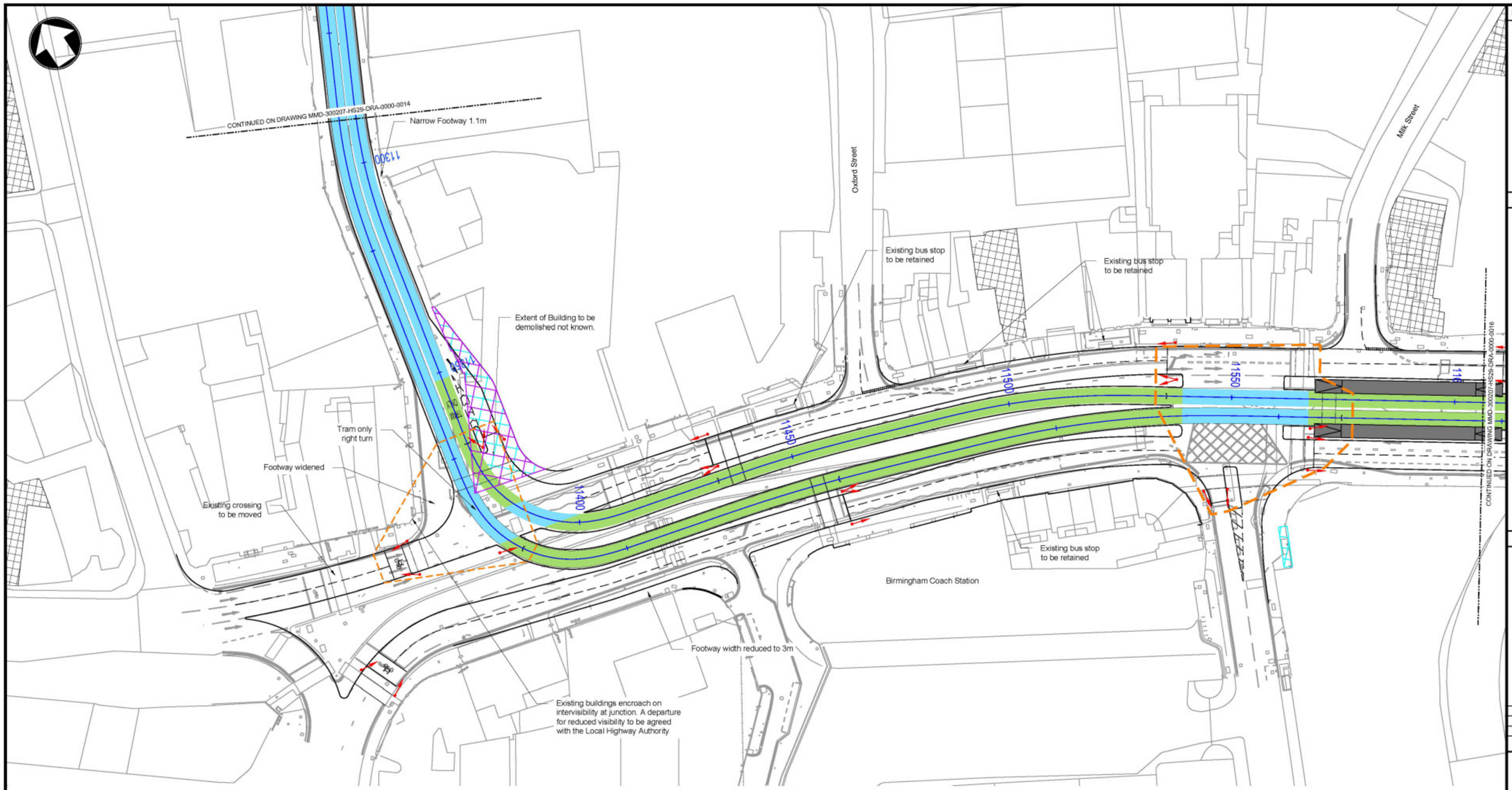
Drawing Number
MMD-300207-HS29-DRA-0000-0014

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1:250 0 12.5m 25m

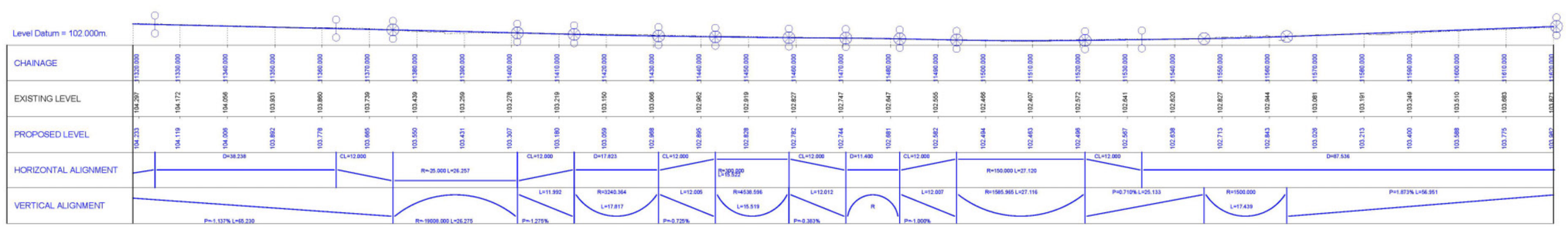
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Plan
1:500



Long Section
Chainage 113120 to 11620
Scale - H = 1:500, V = 1:250

Notes

1. All dimensions are in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.
3. Service locations not considered during design.
4. The Developed Kinematic Envelope (DKE) of the tram is based upon the updated Generic Tram DKE Model for 'Type A Vehicles'. Refer to Mott MacDonald Ltd report reference MMD-300207-SL02-DOC-0001.
5. Footway and platform widths are subject to modeling.
6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:

- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:

- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	15/09/2016	JK	Updated Long Section.	CMS	GJL
P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Key Plan
(Sheet 5 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1: As Shown
Status: PRE
Rev: P3

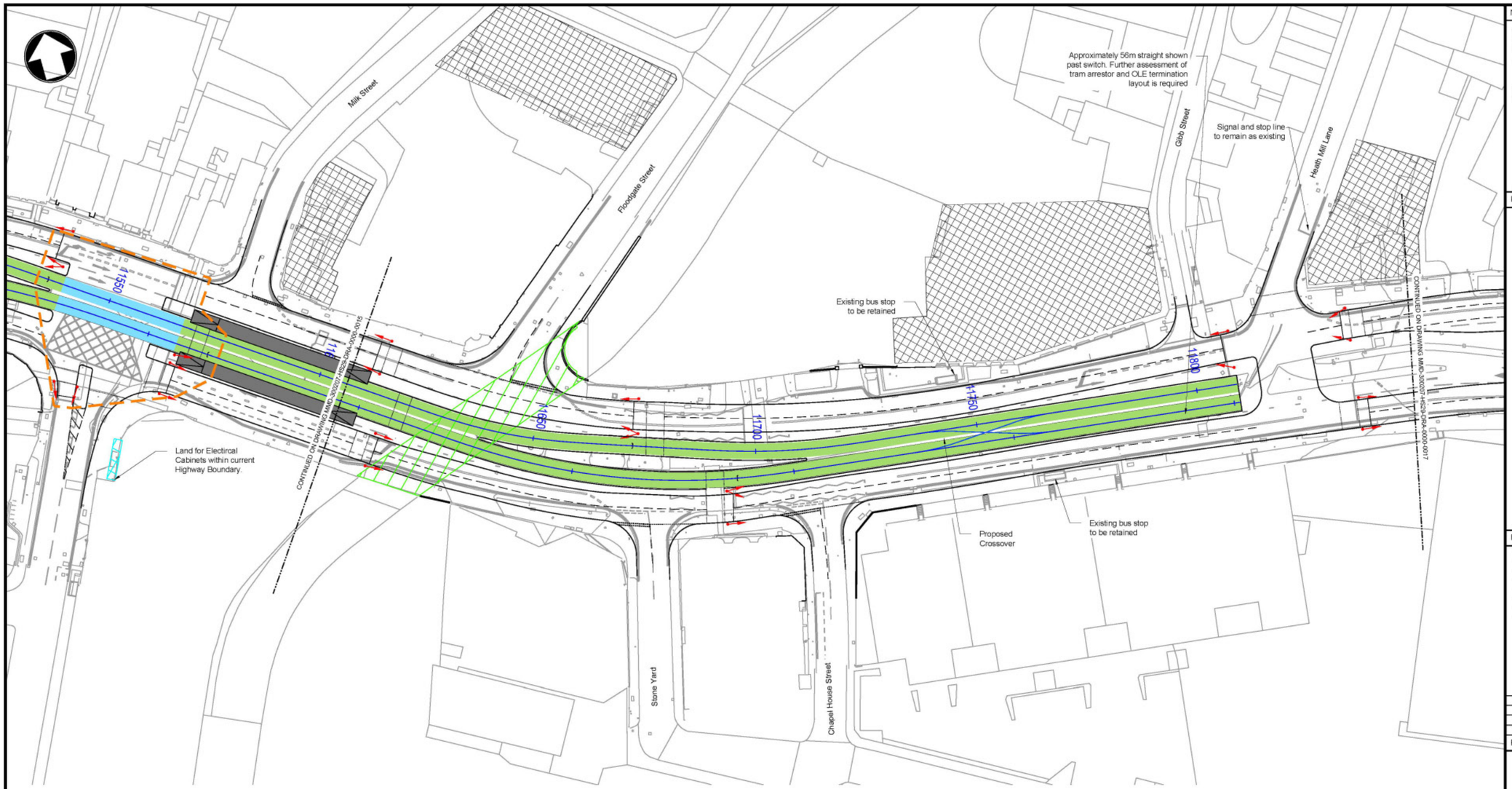
Drawing Number
MMD-300207-HS29-DRA-0000-0015

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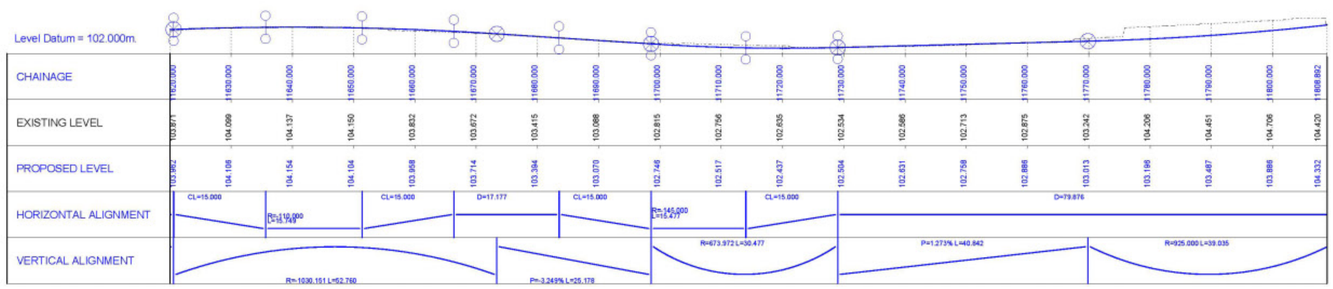
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1:500 0 25m 50m
1:250 0 12.5m 25m



Plan
1:500



Long Section
Chainage 11620 to 11809
Scale - H = 1:500, V = 1:250

Notes

1. All dimensions are in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.
3. Service locations not considered during design.
4. The Developed Kinematic Envelope (DKE) of the tram is based upon the updated Generic Tram DKE Model for 'Type A Vehicles'. Refer to Mott MacDonald Ltd report reference MMD-300207-SL02-DOC-0001.
5. Footway and platform widths are subject to modeling.
6. Electrical equipment (LV, lighting, OLE and associated cabinets) to be confirmed. Land take shown for possible locations of cabinets required at each tram stop.

Key to symbols

Key to Plan:
- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:
- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
MMD-300207-HS29-DRA-0000-0015 - Route Layout (Sheet 5 of 7)
MMD-300207-HS29-DRA-0000-0017 - Route Layout (Sheet 7 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	15/09/2016	JK	Updated Long Section.	CMS	GJL
P3	18/08/2016	JK	Revised Highway Alignment.	CMS	GJL
P2	04/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Key Plan
(Sheet 6 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	M. Donovan		Approved	K. Crowley	

Scale at A1	Status	Rev
As Shown	PRE	P4

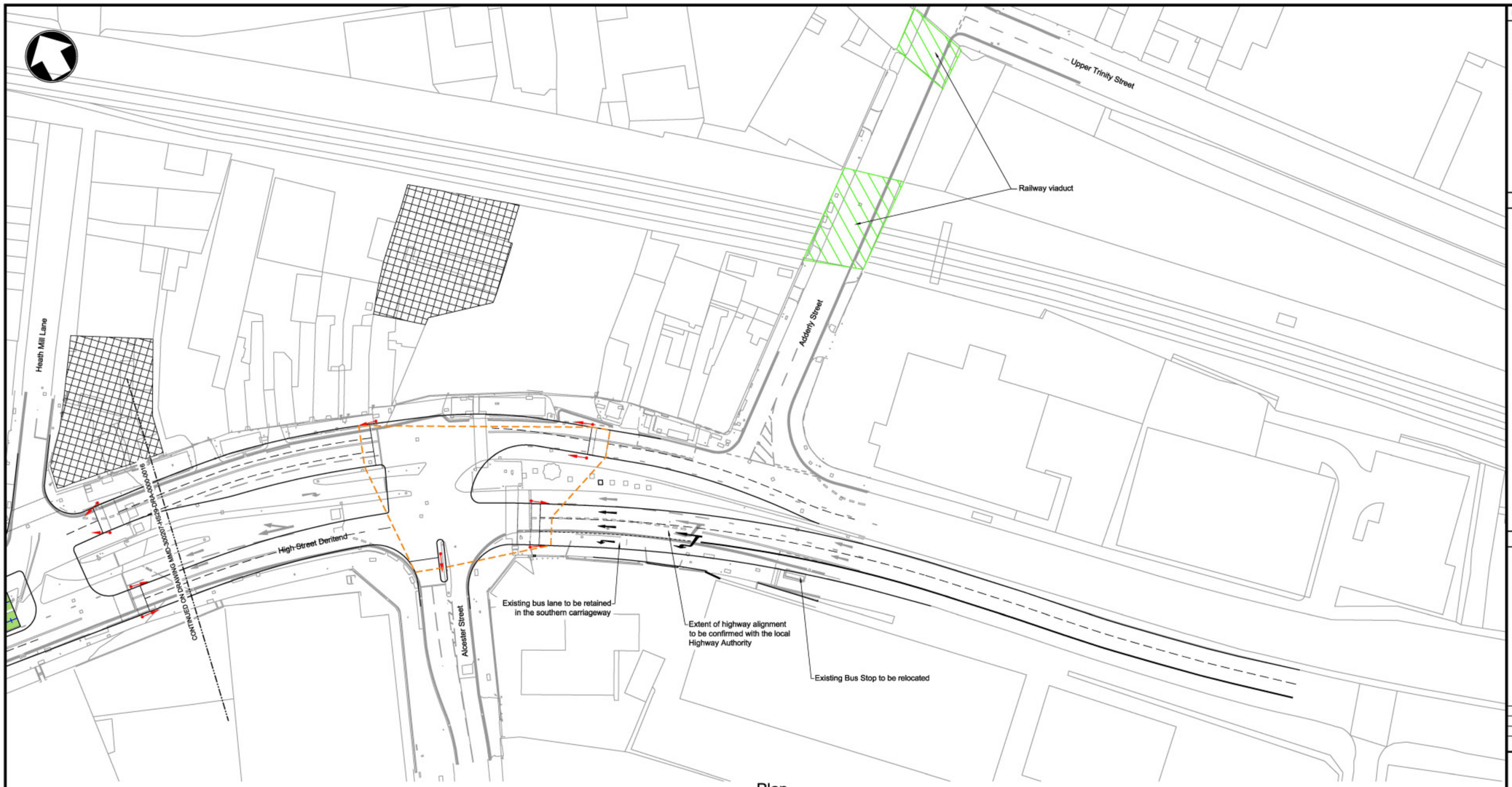
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MMD-300207-HS29-DRA-0000-0016

1:500 0 25m 50m
1:250 0 12.5m 25m

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Plan
1:500

Notes

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5. Footway and platform widths are subject to modeling.
6. Electrical equipment to be confirmed.

Key to symbols

Key to Plan:

- Proposed Tramway Centreline
- Birmingham City Centre Extension
- Shared Track
- Segregated Track
- Shared trams and buses
- Edge of Kerb
- Land Take
- Buildings to be Demolished
- Primary Signal Head and 4m Pole
- Proposed Road Markings
- Proposed Tram Stop
- HS2 Station Building Outline (Indicative Only)
- Existing Bridge
- Proposed Retaining Wall
- Junction Intervisibility
- Junction visibility splays
- Listed Buildings
- Proposed Planting

Key to Long Section:

- Existing Level
- Proposed Level
- Horizontal Tangent Point
- Vertical Tangent Point

Reference drawings

MMD-300207-HS29-DRA-0000-0010 - Route Layout - Key Plan
MMD-300207-HS29-DRA-0000-0011 - Route Layout (Sheet 1 of 7)
MMD-300207-HS29-DRA-0000-0012 - Route Layout (Sheet 2 of 7)
MMD-300207-HS29-DRA-0000-0013 - Route Layout (Sheet 3 of 7)
MMD-300207-HS29-DRA-0000-0014 - Route Layout (Sheet 4 of 7)
MMD-300207-HS29-DRA-0000-0015 - Route Layout (Sheet 5 of 7)
MMD-300207-HS29-DRA-0000-0016 - Route Layout (Sheet 6 of 7)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	15/09/2016	JK	Updated Highway Alignment.	CMS	GJL
P2	03/05/2016	EQ	Revised Alignment.	CMS	GJL
P1	16/09/2015	JK	First Issue.	CMS	KC

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Key Plan
(Sheet 7 of 7)

Designed	P. Duffy		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	K. Crowley	

Scale at A1	Status	Rev
As Shown	PRE	P3

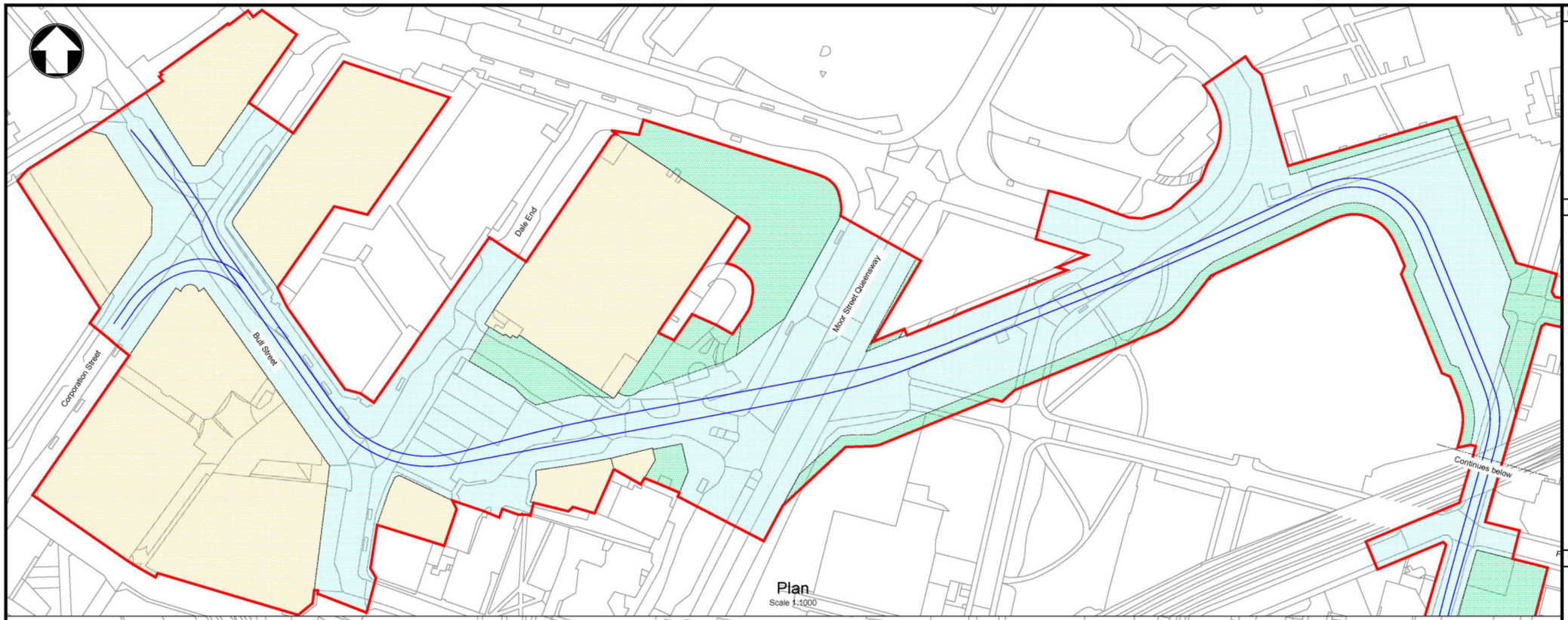
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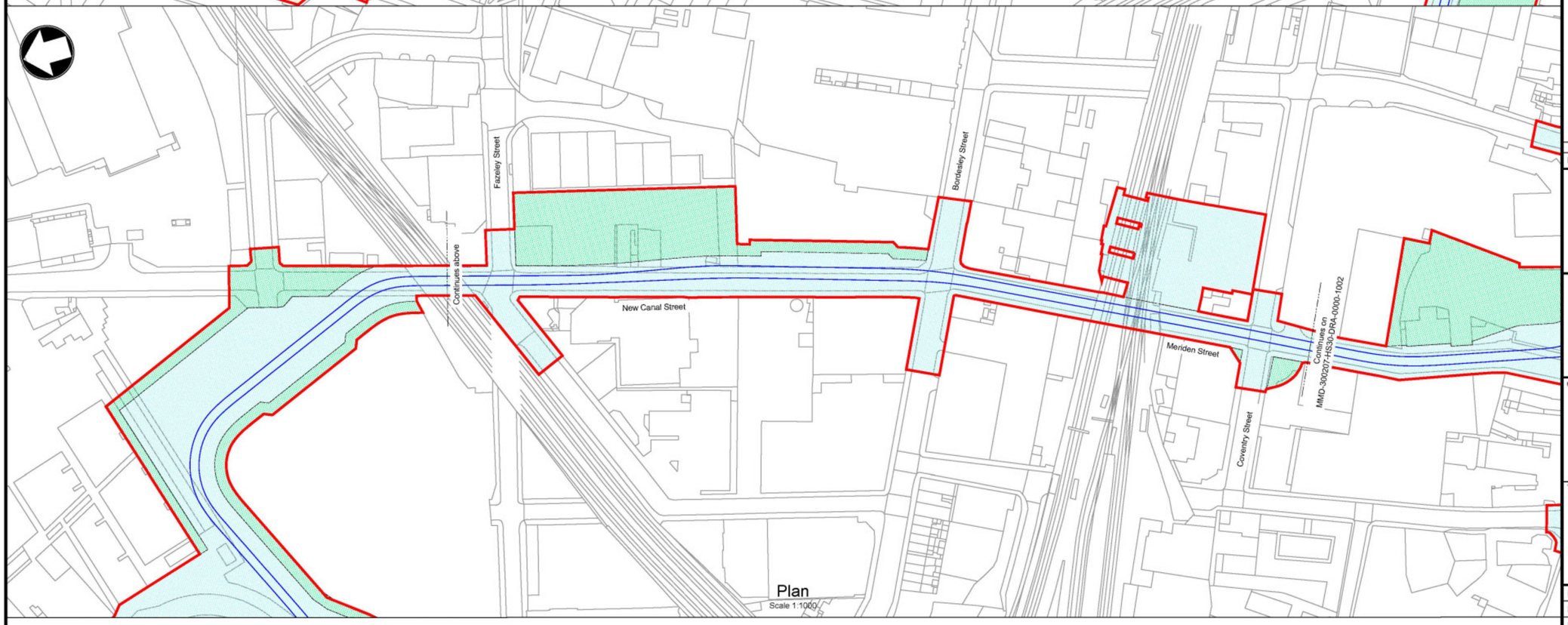
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1:500 0 25m 50m



Plan
Scale 1:1000



Plan
Scale 1:1000

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1:1000 0 50m 100m

Notes

1. All dimensions are in metres unless otherwise stated.
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Key to symbols

Key to Plan:

- Limit of Deviation and of Land to be Acquired or Used
- Limit of Land to be Used Temporarily
- Limit of Land with Rights to Attach Equipment to Buildings
- Tramway Centrelines
- Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	19.09.16	EQ	First Issue.	CS	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Scheme Boundary
(Sheet 1 of 2)

Designed	E.Quarshie		Eng check	C.Searson	
Drawn	E.Quarshie		Coordination	C.Searson	
Dwg check	A.Griffiths		Approved	G.Last	

Scale at A1	Status	Rev
1:1000	PRE	P1

Drawing Number
MMD-300207-HS30-DRA-0000-1001

Coventry Street

Continues on drawing MMD-300207-HS30-DRA-0000-1001

Potential alteration to building access to improve footway widths

Oxford Street

Milk Street

Floodgate Street

High Street Deritend

Continues below

Gibb Street

Heath Mill Lane

Area allowed on River Rea for work on bridge structure

Plan
Scale 1:1000

High Street Deritend

Continues above

Gibb Street

Heath Mill Lane

Adderley Street

Plan
Scale 1:1000

Notes

1. All dimensions are in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.

Key to symbols

Key to Plan:

- Limit of Deviation and of Land to be Acquired or Used
- Limit of Land to be Used Temporarily
- Limit of Land with Rights to Attach Equipment to Buildings
- Tramway Centrelines
- Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
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Title
Midland Metro Phase 2
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Scheme Boundary
(Sheet 2 of 2)

Designed	E.Quarshie		Eng check	C.Searson	
Drawn	E.Quarshie		Coordination	C.Searson	
Dwg check	A.Griffiths		Approved	G.Last	

Scale at A1	Status	Rev
1:1000	PRE	P1

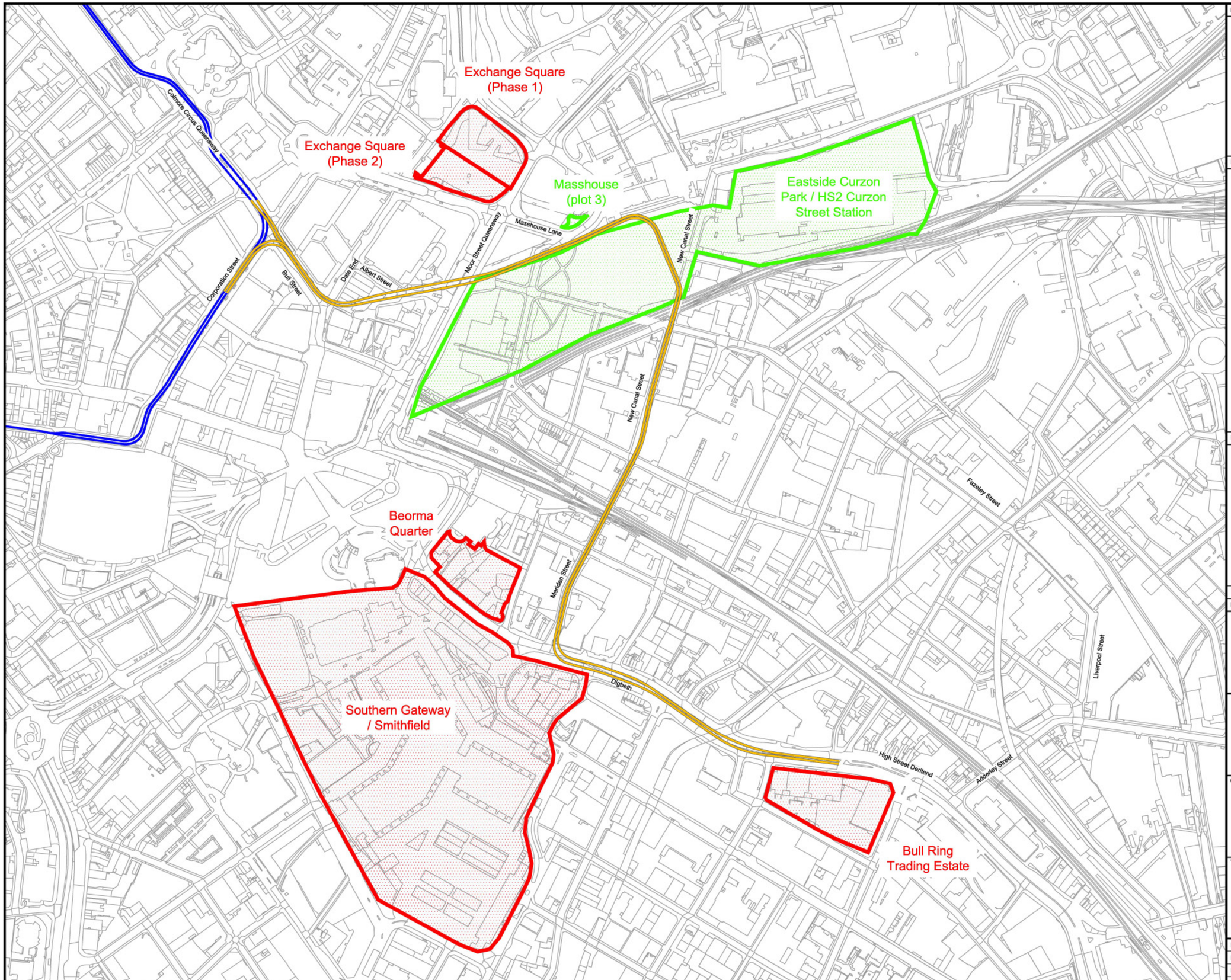
Drawing Number
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1:1000 0 50m 100m



Notes

1. All dimensions are given in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Committed Development
- Baseline Development

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	16.09.16	JK	Preliminary Issue	CS	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Committed and Baseline Developments

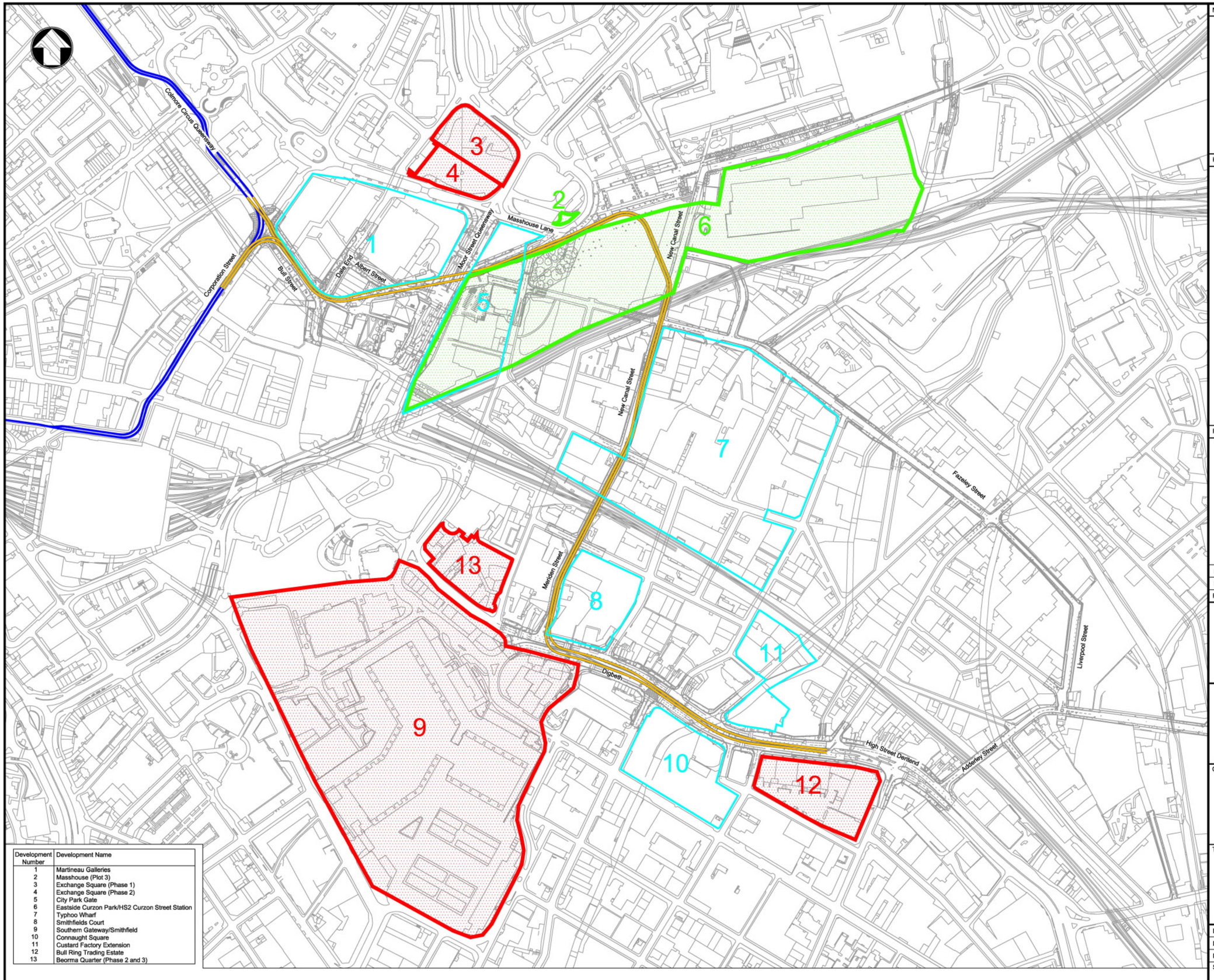
Designed	-		Eng check	C. Searson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
NTS	PRE	P1

Drawing Number
MMD-300207-HS30-DRA-0000-0011

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Development Number	Development Name
1	Martineau Galleries
2	Masshouse (Plot 3)
3	Exchange Square (Phase 1)
4	Exchange Square (Phase 2)
5	City Park Gate
6	Eastside Curzon Park/HS2 Curzon Street Station
7	Typhoo Wharf
8	Smithfields Court
9	Southern Gateway/Smithfield
10	Connaught Square
11	Custard Factory Extension
12	Bull Ring Trading Estate
13	Beorma Quarter (Phase 2 and 3)

Notes

1. All dimensions are given in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Committed Development
- Baseline Development
- Future/Potential Developments

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	14.09.16	JK	Beorma Quarter Added	LC	GL
P1	01.08.16	JK	Preliminary Issue	LC	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Development Sites

Designed	L. Coffey		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

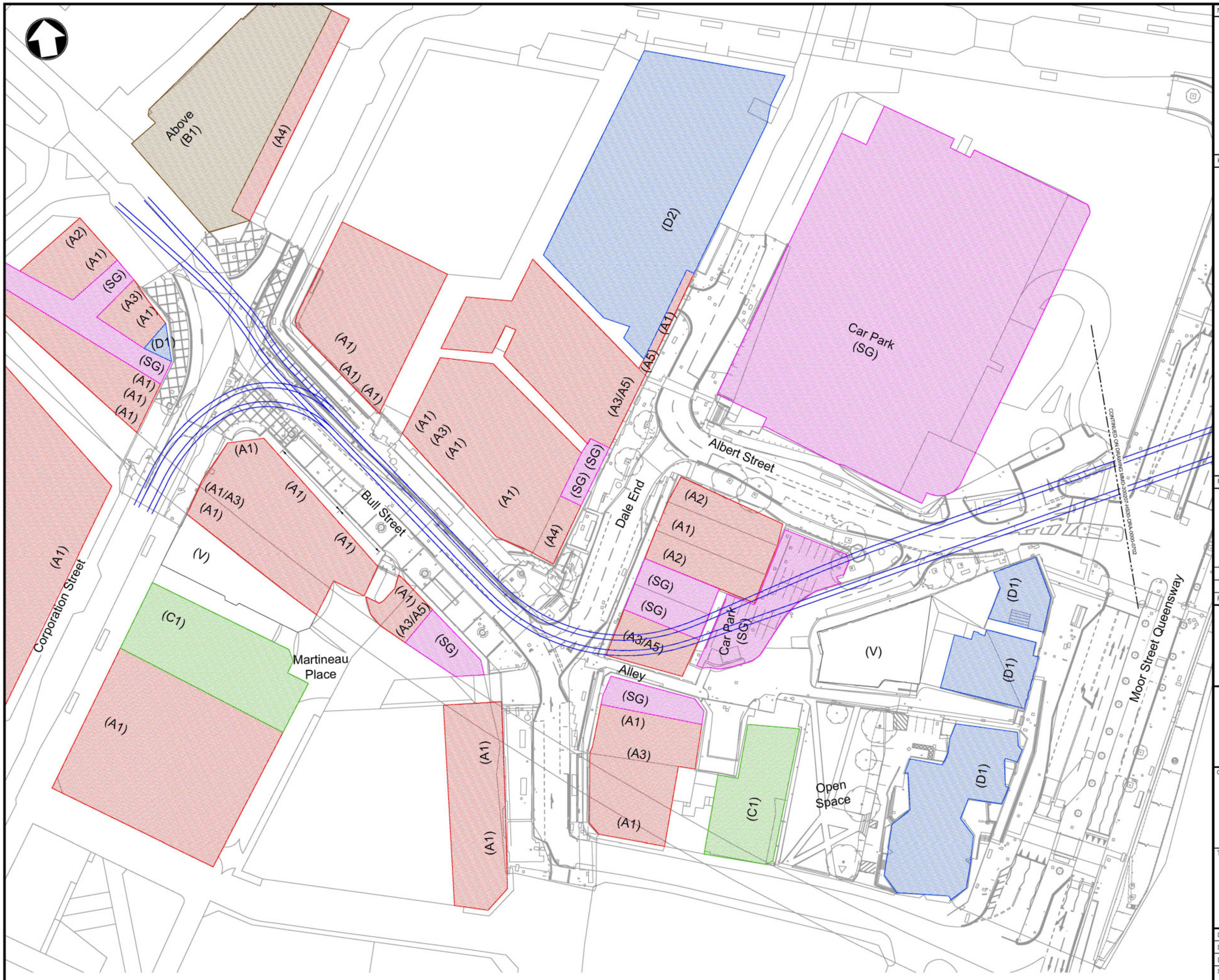
Scale at A1	Status	Rev
NTS	PRE	P2

Drawing Number
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Notes

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2. All dimensions are in metres unless otherwise stated.

Key to symbols

- Illustrative alignment of tramway
- (A1) Retail
- (A2) Financial and Professional Services
- (A3) Restaurants and Cafes
- (A4) Drinking Establishments
- (A5) Hot Food Takeaways
- (B1) Business
- (B2) General Industrial
- (B8) Storage and Distribution
- (C1) Hotels
- (C2) Residential Institutions
- (D1) Non-Residential Institutions
- (D2) Assembly and Leisure
- (SG) Sui Generis
- (V) Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Existing Land Use Classification
(Sheet 1 of 6)

Designed	-		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:500	PRE	P2

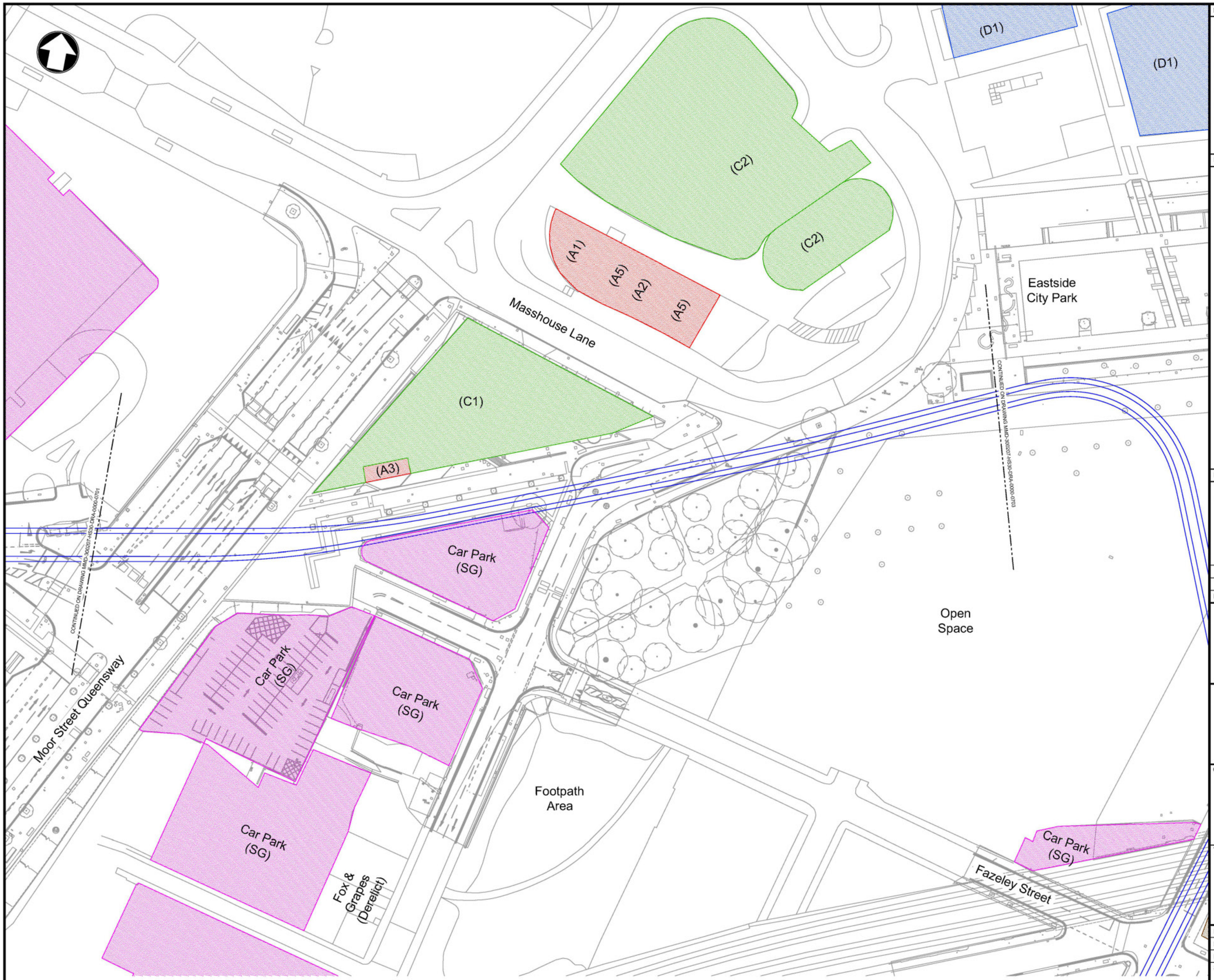
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1:500 0 25m 50m



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1:500 0 25m 50m

Notes

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2. All dimensions are in metres unless otherwise stated.

Key to symbols

	Illustrative alignment of tramway
(A1)	Retail
(A2)	Financial and Professional Services
(A3)	Restaurants and Cafes
(A4)	Drinking Establishments
(A5)	Hot Food Takeaways
(B1)	Business
(B2)	General Industrial
(B8)	Storage and Distribution
(C1)	Hotels
(C2)	Residential Institutions
(D1)	Non-Residential Institutions
(D2)	Assembly and Leisure
(SG)	Sui Generis
(V)	Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added.	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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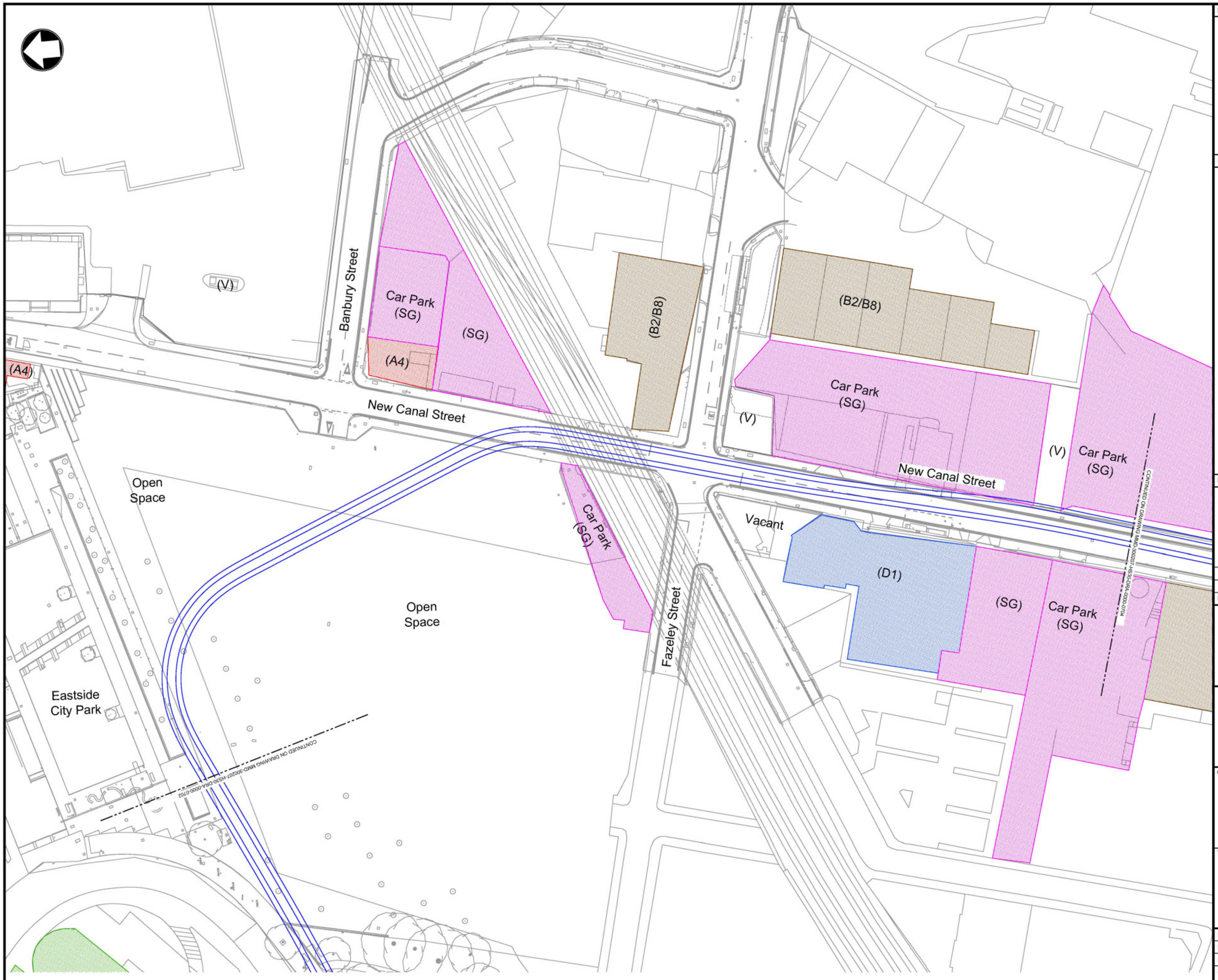
Client
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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Existing Land Use Classification
(Sheet 2 of 6)

Designed	-		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:500	PRE	P2

Drawing Number
MMD-300207-HS30-DRA-0000-0702



Notes

1. Do not scale any items or information from this drawing.
2. All dimensions are in metres unless otherwise stated.

Key to symbols

- Illustrative alignment of tramway
- (A1) Retail
- (A2) Financial and Professional Services
- (A3) Restaurants and Cafes
- (A4) Drinking Establishments
- (A5) Hot Food Takeaways
- (B1) Business
- (B2) General Industrial
- (B8) Storage and Distribution
- (C1) Hotels
- (C2) Residential Institutions
- (D1) Non-Residential Institutions
- (D2) Assembly and Leisure
- (SG) Sui Generis
- (V) Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added.	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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Client
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Centro House
16 Summer Lane
Birmingham
B19 3SD

Title
Midland Metro Phase 2
Birmingham Eastside Extension
Existing Land Use Classification
(Sheet 3 of 6)

Designed	-		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:500	PRE	P2

Drawing Number
MMD-300207-HS30-DRA-0000-0703

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1:500 0 25m 50m

Vacant

(V)

Car Park (SG)

Car Park (SG)

(B2)

(B1)

(A3/A5)

Car Park (SG)

(A3/A5)

Car Park (SG)

(B2/B8)

(V)

(SG)

Car Park (SG)

(B8)

(A4)

Vacant

(D2)

Vacant

(B2)

(A4)

Meriden Street

(D2)

(B2)

CONTINUED ON DRAWING MMD-300207-HS30-DRA-0000-0703

CONTINUED ON DRAWING MMD-300207-HS30-DRA-0000-0705

CONTINUED ON DRAWING MMD-300207-HS30-DRA-0000-0702

Notes

1. Do not scale any items or information from this drawing.
2. All dimensions are in metres unless otherwise stated.

Key to symbols

- Illustrative alignment of tramway
- (A1) Retail
- (A2) Financial and Professional Services
- (A3) Restaurants and Cafes
- (A4) Drinking Establishments
- (A5) Hot Food Takeaways
- (B1) Business
- (B2) General Industrial
- (B8) Storage and Distribution
- (C1) Hotels
- (C2) Residential Institutions
- (D1) Non-Residential Institutions
- (D2) Assembly and Leisure
- (SG) Sui Generis
- (V) Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added.	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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Title

Midland Metro Phase 2
Birmingham Eastside Extension
Existing Land Use Classification
(Sheet 4 of 6)

Designed			Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:500	PRE	P2

Drawing Number

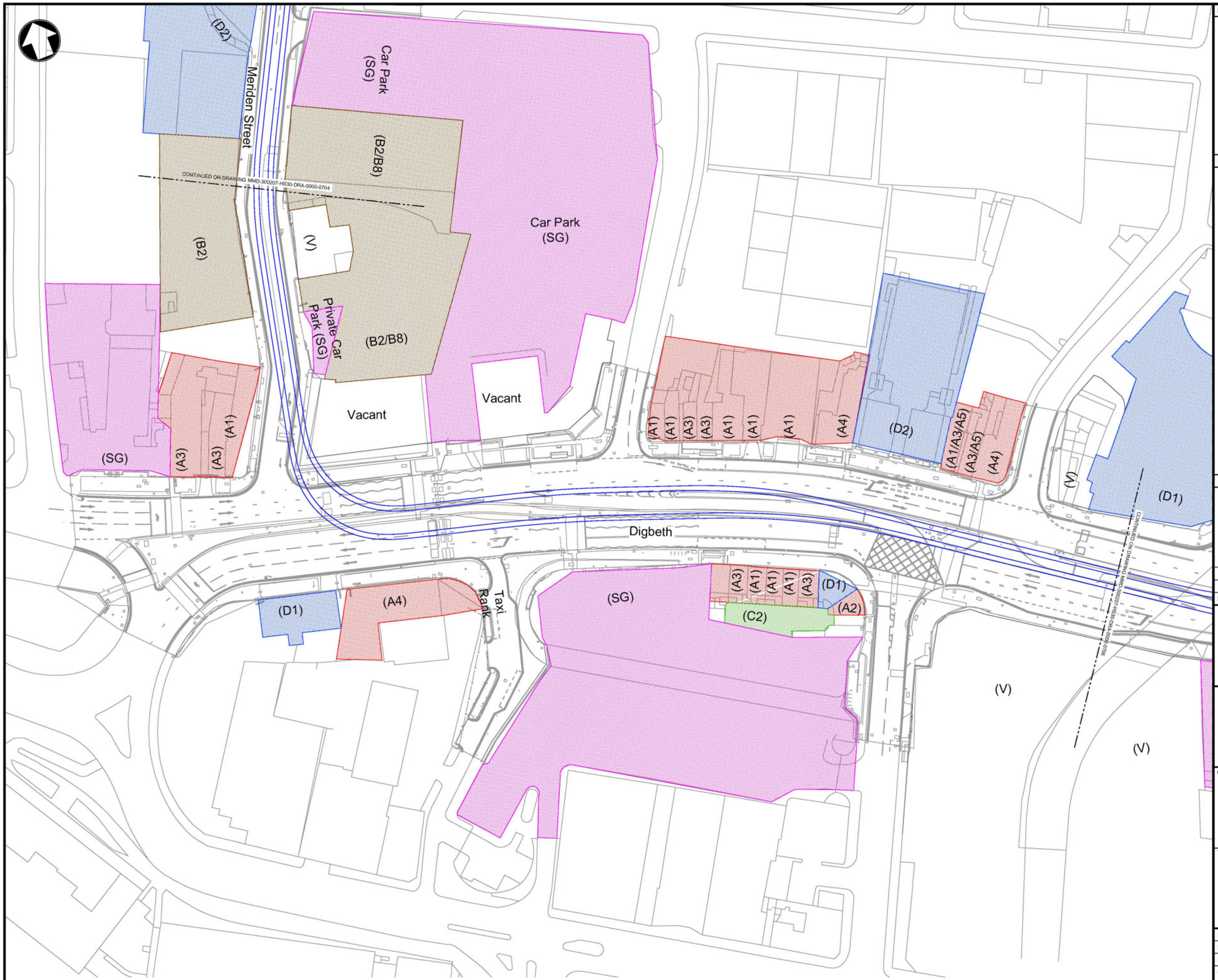
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1:500 0 25m 50m



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Key to symbols

- Illustrative alignment of tramway
- (A1) Retail
- (A2) Financial and Professional Services
- (A3) Restaurants and Cafes
- (A4) Drinking Establishments
- (A5) Hot Food Takeaways
- (B1) Business
- (B2) General Industrial
- (B8) Storage and Distribution
- (C1) Hotels
- (C2) Residential Institutions
- (D1) Non-Residential Institutions
- (D2) Assembly and Leisure
- (SG) Sui Generis
- (V) Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added.	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Existing Land Use Classification
(Sheet 5 of 6)

Designed	-		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1: 1:500
Status: PRE
Rev: P2

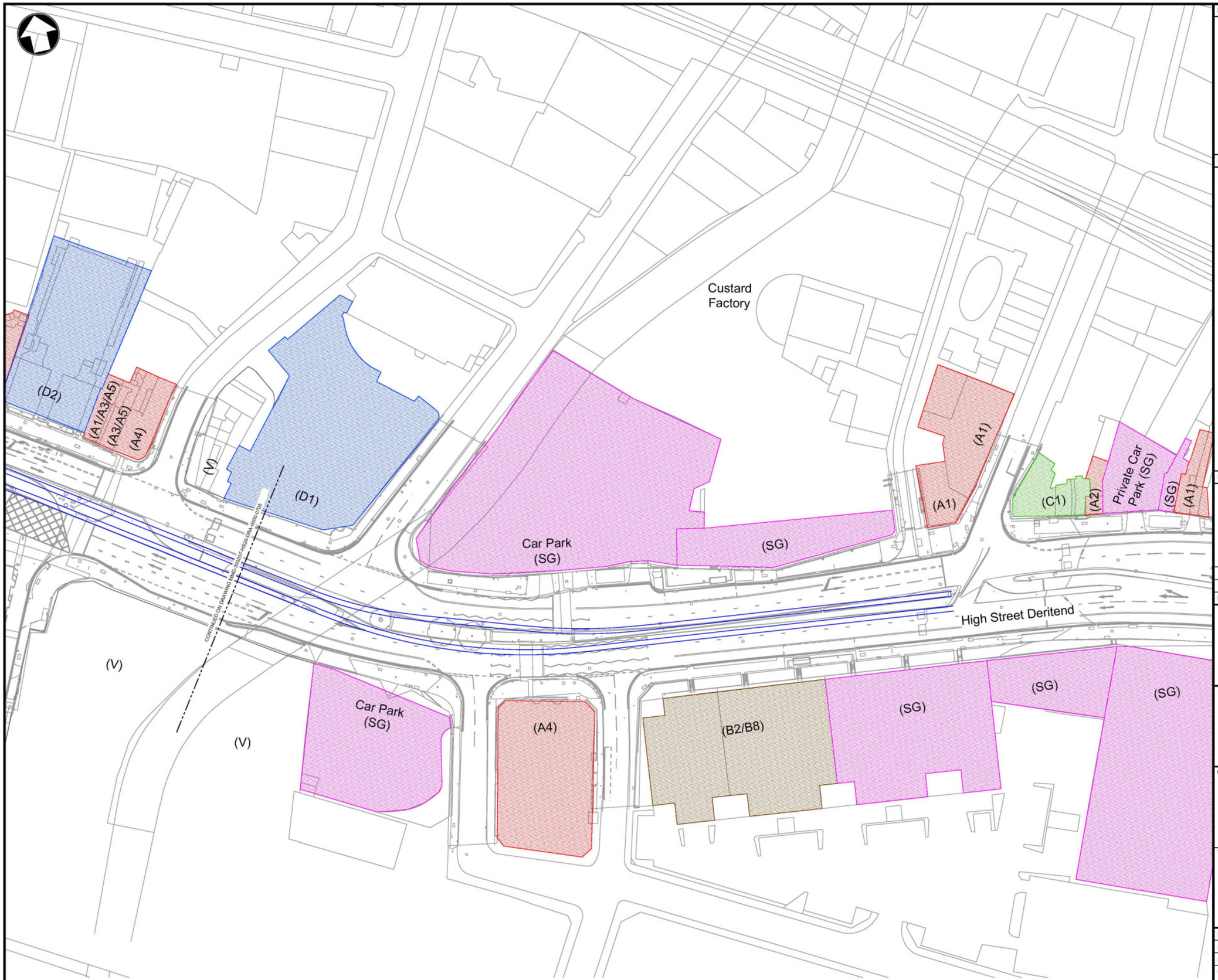
Drawing Number
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1:500 0 25m 50m



Notes

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Key to symbols

- Illustrative alignment of tramway
- (A1) Retail
- (A2) Financial and Professional Services
- (A3) Restaurants and Cafes
- (A4) Drinking Establishments
- (A5) Hot Food Takeaways
- (B1) Business
- (B2) General Industrial
- (B8) Storage and Distribution
- (C1) Hotels
- (C2) Residential Institutions
- (D1) Non-Residential Institutions
- (D2) Assembly and Leisure
- (SG) Sui Generis
- (V) Vacant

Reference drawings

MMD-300207-HS30-DRA-0000-0701 to 0706 - Existing Land Use and Classification (Sheet 1 of 6) to (Sheet 6 of 6)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	19.09.16	JK	Visual References Added.	LC	GJL
P1	01.08.16	JK	Preliminary Issue	LC	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Exntension
Existing Land Use Classification
(Sheet 6 of 6)

Designed	-		Eng check	L. Coffey	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:500	PRE	P2

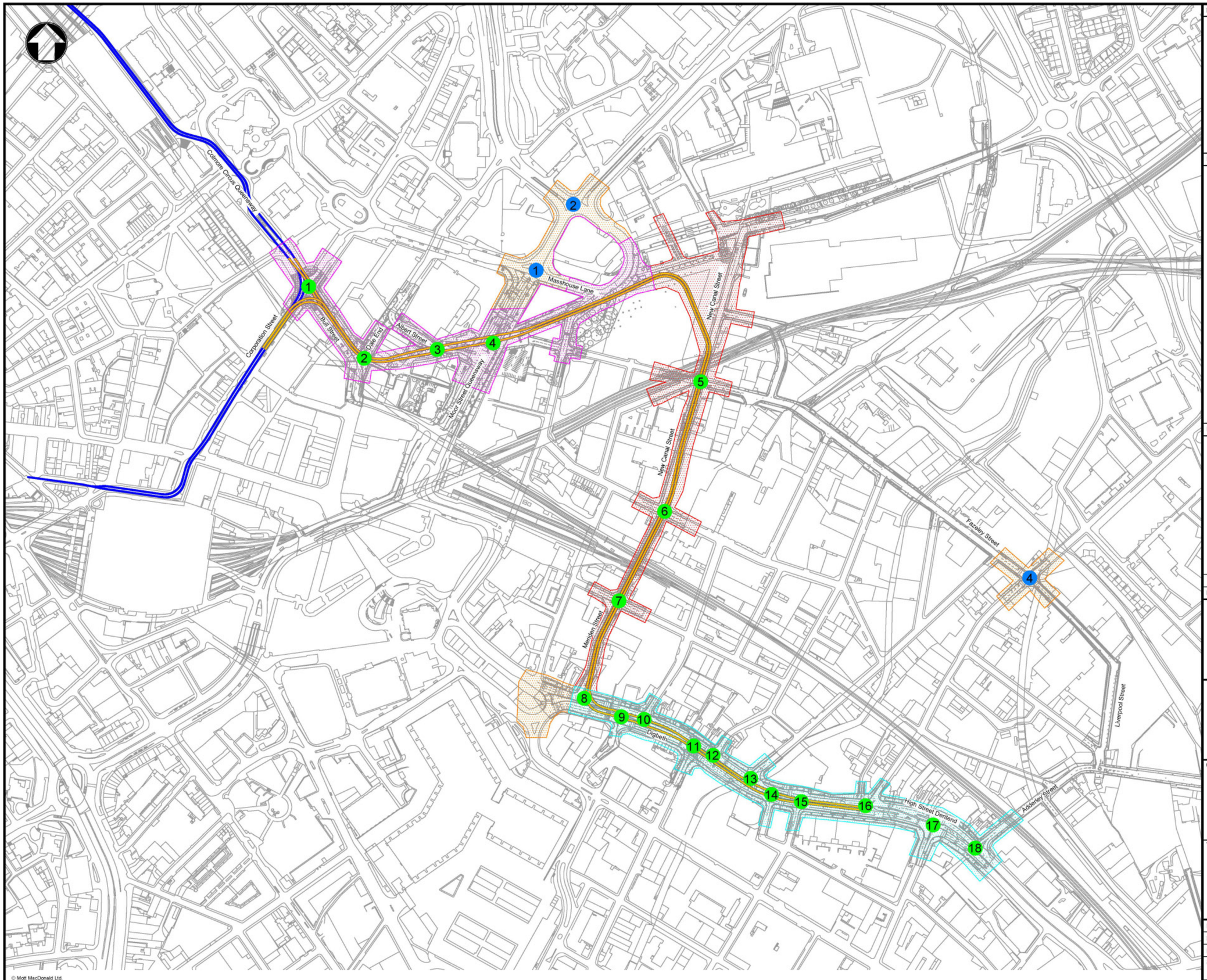
Drawing Number
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1:500 0 25m 50m



Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Area of Assessment Section 1
- Area of Assessment Section 2
- Area of Assessment Seciton 3
- Area of Assessment Offline Junctions
- 1 Key Online Junction
- 1 Key Offline Junction

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	28.07.16	JK	Preliminary Issue	WH	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Assessment Area

Designed	W. Hodgson		Eng check	W. Hodgson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1	1:2500	Status	PRE	Rev	P1

Drawing Number
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1:2500 0 125m 250m

Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- 1 Low Sensitivity Link
- 1 Medium Sensitivity Link
- 1 High Sensitivity Link

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	28.07.16	JK	Preliminary Issue	WH	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Link Plan

Designed	W. Hodgson		Eng check	W. Hodgson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1 1:2500		Status PRE		Rev P1	

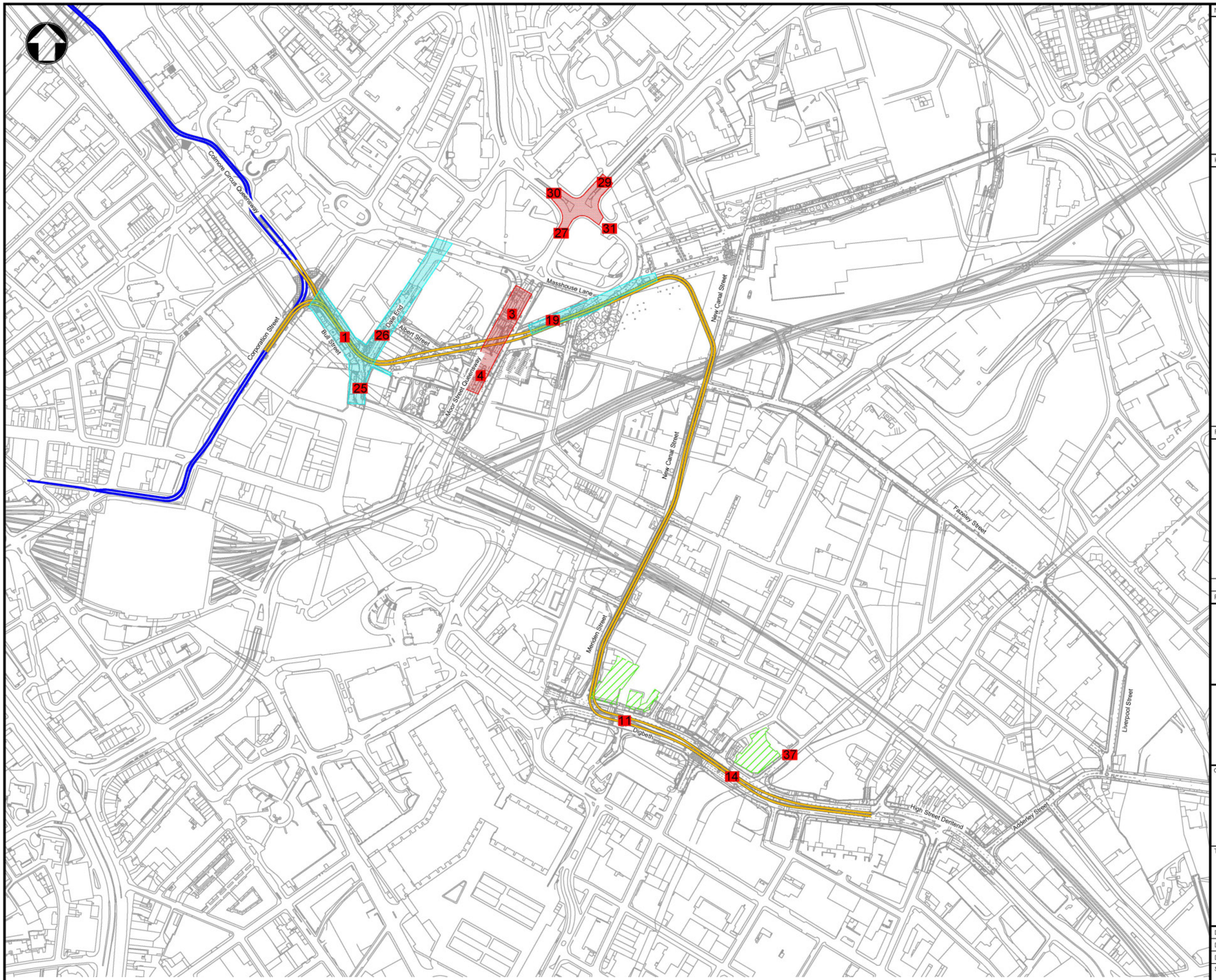
Drawing Number
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1:2500 0 125m 250m



Notes

1. Do not scale any information or items from this drawing.
2. All dimensions shown are given ion metres unless otherwise

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- High Pedestrian Footfall
- Collision Cluster
- South and City College Birmingham

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	28.07.16	JK	Preliminary Issue	WH	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
High Sensitivity Receptors

Designed	W. Hodgson		Eng check	W. Hodgson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:2500	PRE	P1

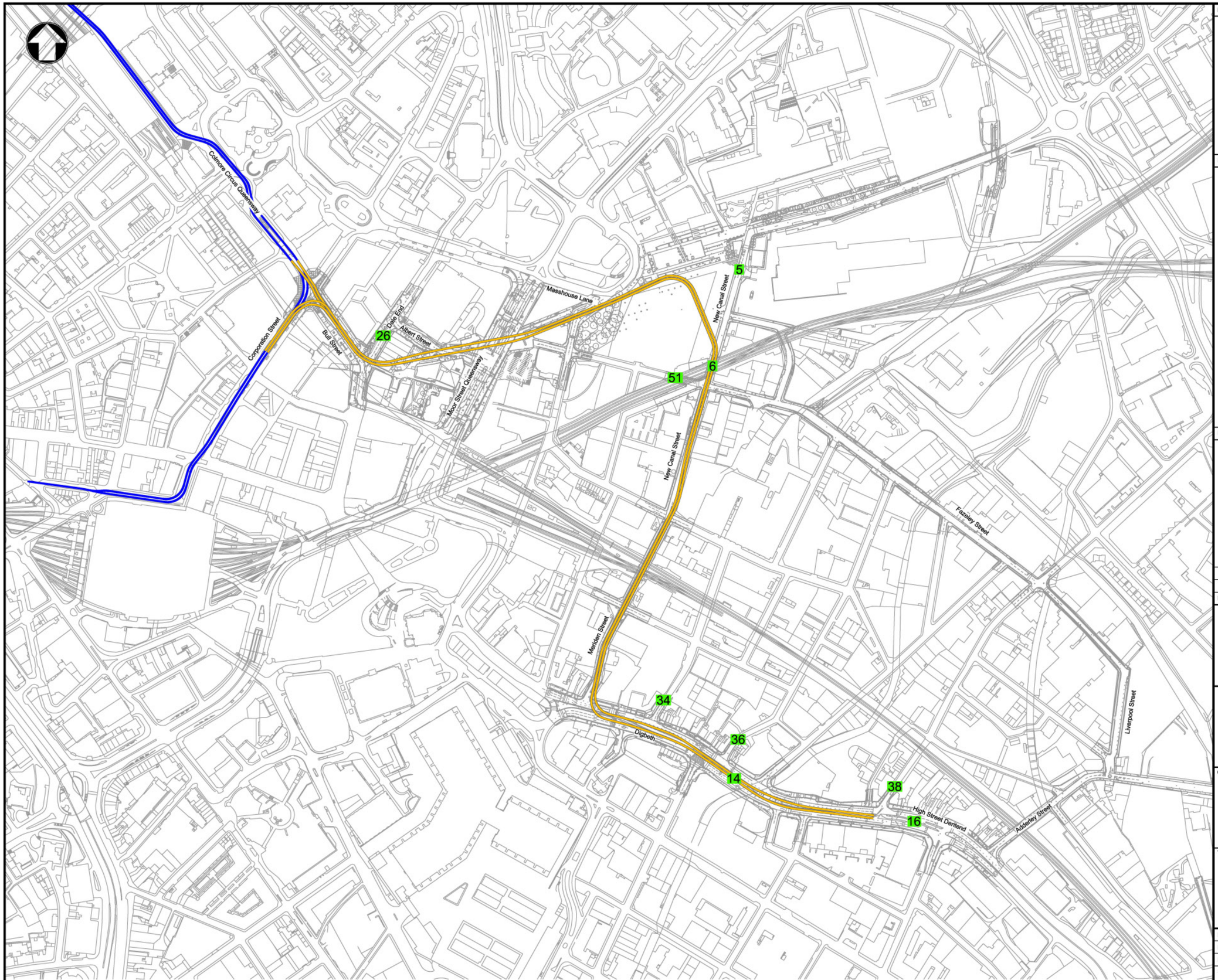
Drawing Number
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1:2500 0 125m 250m



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Key to symbols

Birmingham Eastside Extension

Birmingham City Centre Extension

1 Significant beneficial effects

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	09.09.16	JK	Affected junctions amended.	WH	GJL
P1	03.08.16	JK	Preliminary Issue	WH	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Significant Effects

Designed	W. Hodgson		Eng check	W. Hodgson	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1 1:2500		Status PRE		Rev P2	

Drawing Number
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1:2500 0 125m 250m

Existing contra flow cycle lane along Bull Street to become marked cycle lane on two way street

Albert Street to be closed between Dale End and New Meeting Street

Cyclists can mount footway and use Toucan crossings

Uncontrolled crossing point accross Metro Track

Curzon Street

Masshouse Lane

Moor Street Queensway

Corporation Street

Bull Street

Dale End

New Meeting Street

High Street

Carrs Lane

New Canal Street

Andover Street

Fazeley Street

Pickford Street

Bordesley Street

Barn Street

Coventry Street

Oxford Street

Meriden Street

High Street Deritend

Mill Lane

Milk Street

Floodgate Street

Rea Street

Glebe Street

Heath Mill Lane

Lower Trinity Street

Liverpool Street

Stone Yard

Chapel House Street

Birchall Street

Green Street

Bradford Street

Adderley Street

Upper Trinity Street

Alcester Street

Plan
Not to Scale

Notes

1. All dimensions are in metres unless otherwise stated.
2. Do not scale any items or information from this drawing.
3. Cycle Routes based on Birmingham City Council online interactive cycle map in February 2015.

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Current BCC advisory cycle route (unsigned)
- Current BCC Off-Road (traffic free) cycling route
- Current signed cycle route
- Current Bus Lane Cycle Route
- Current contra-flow cycle lane
- Current Cycle route in bus lane
- Current Cycle route in bus lane to be abandoned
- Current advisory cycle route to be abandoned
- Proposed marked cycle route
- Proposed signed cycle route
- Proposed advisory cycle route (unsigned)
- Proposed Toucan crossings
- Pedestrian Crossing Points
- Cycling prohibited area
- HS2 Building outline (indicative only)

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	19/08/16	JK	Preliminary Issue	CMS	GL

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Title
Midland Metro Phase 2
Birmingham East Side Extension
Alternative Cycle Routes

Designed	A.Griffiths		Eng check	C.Searson	
Drawn	J. Kirby		Coordination	C.Searson	
Dwg check	A. Griffiths		Approved	G.Last	

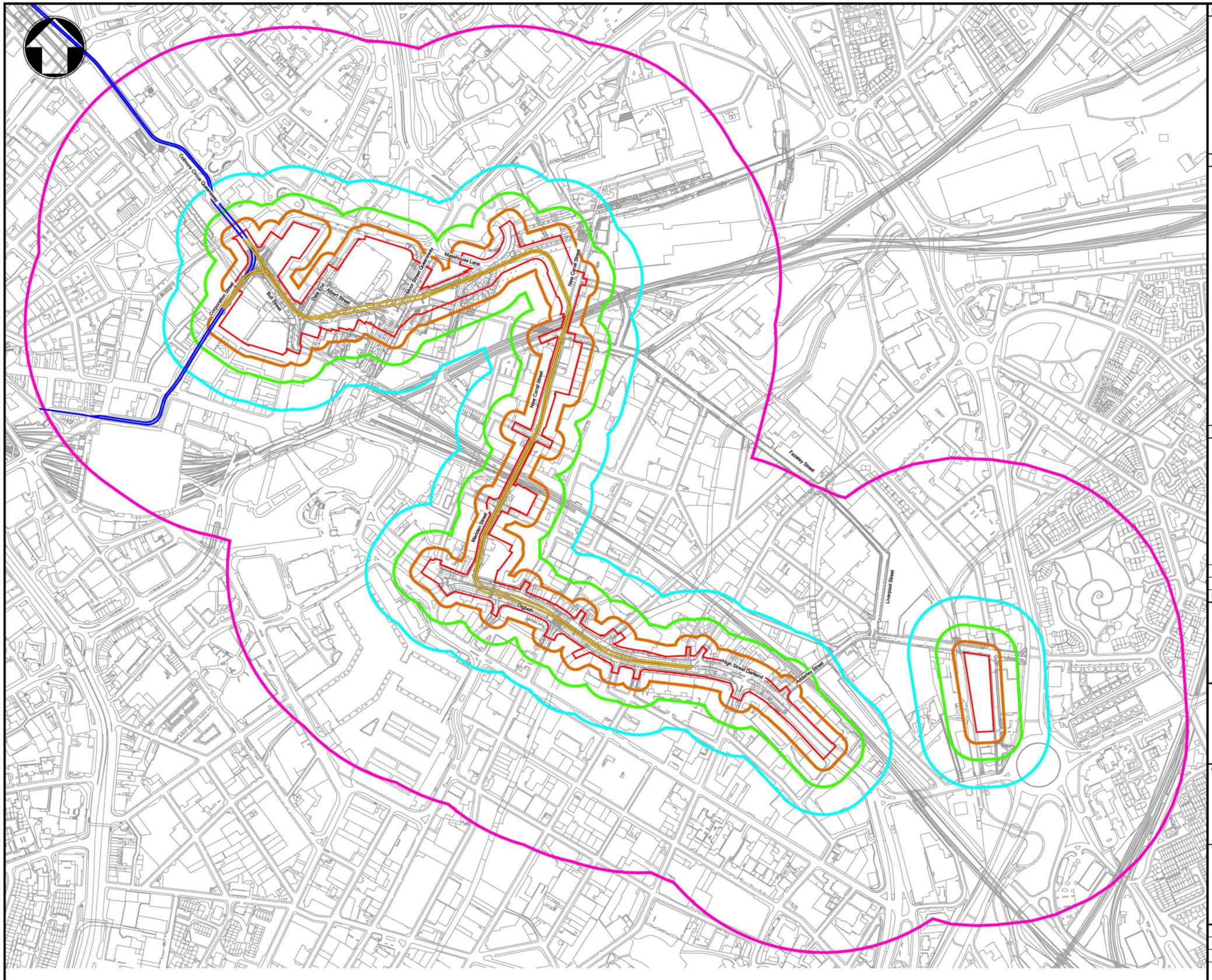
Scale at A1: As Shown
Status: PRE
Rev: P1

Drawing Number
MMD-300207-HS23-DRA-0000-0001

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Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Scheme Boundary
- 20m Construction Buffer Zone
- 50m Construction Buffer Zone
- 100m Construction Buffer Zone
- 350m Construction Buffer Zone

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	09.09.16	JK	Construction Buffer Zones Updated	JB	GL
P1	08.08.16	JK	Preliminary Issue	JB	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Construction Boundary and
Assessment Buffers

Designed	J. Burnell		Eng check	J. Burnell	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

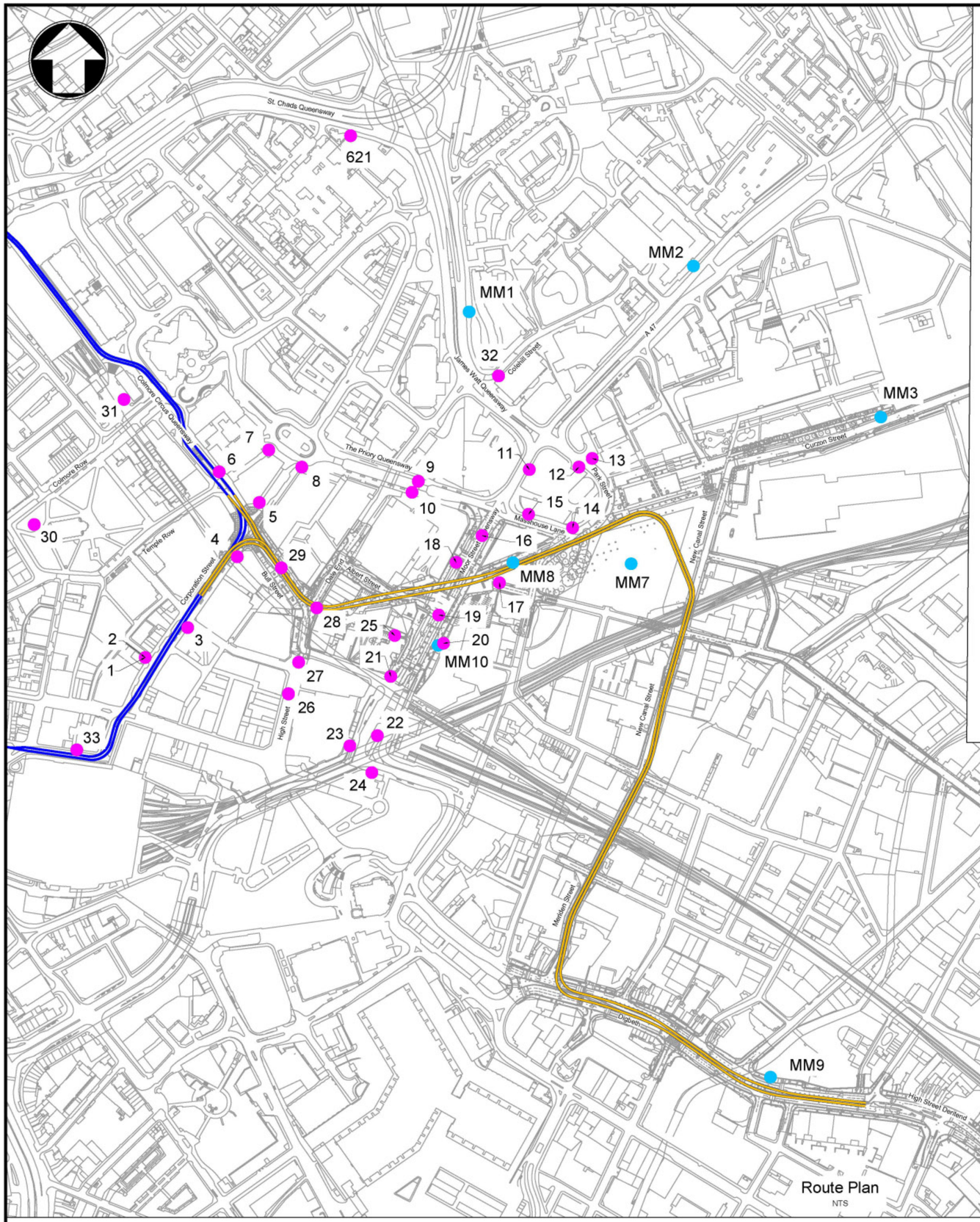
Scale at A1	Status	Rev
NTS	PRE	P2

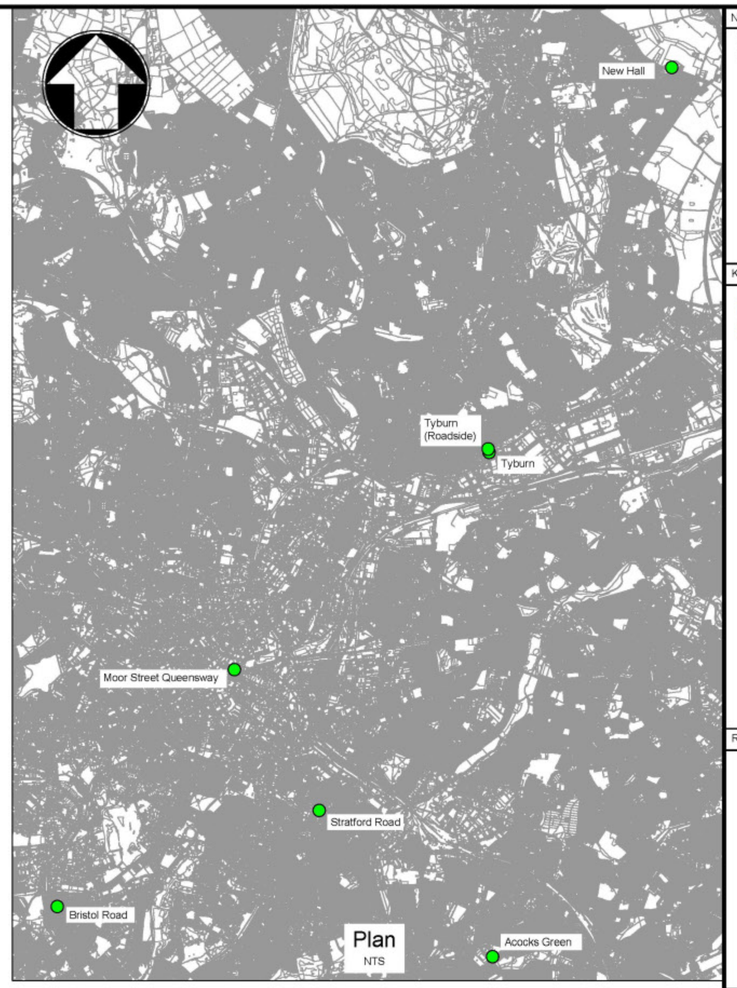
Drawing Number
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Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- MM1 — Mott MacDonald Diffusion Tube Location
- 1 — Birmingham City Council Diffusion Tube Location
- Automatic Monitoring Location

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	25.07.16	JK	Preliminary Issue	JB	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Diffusion Tube
Monitoring Locations

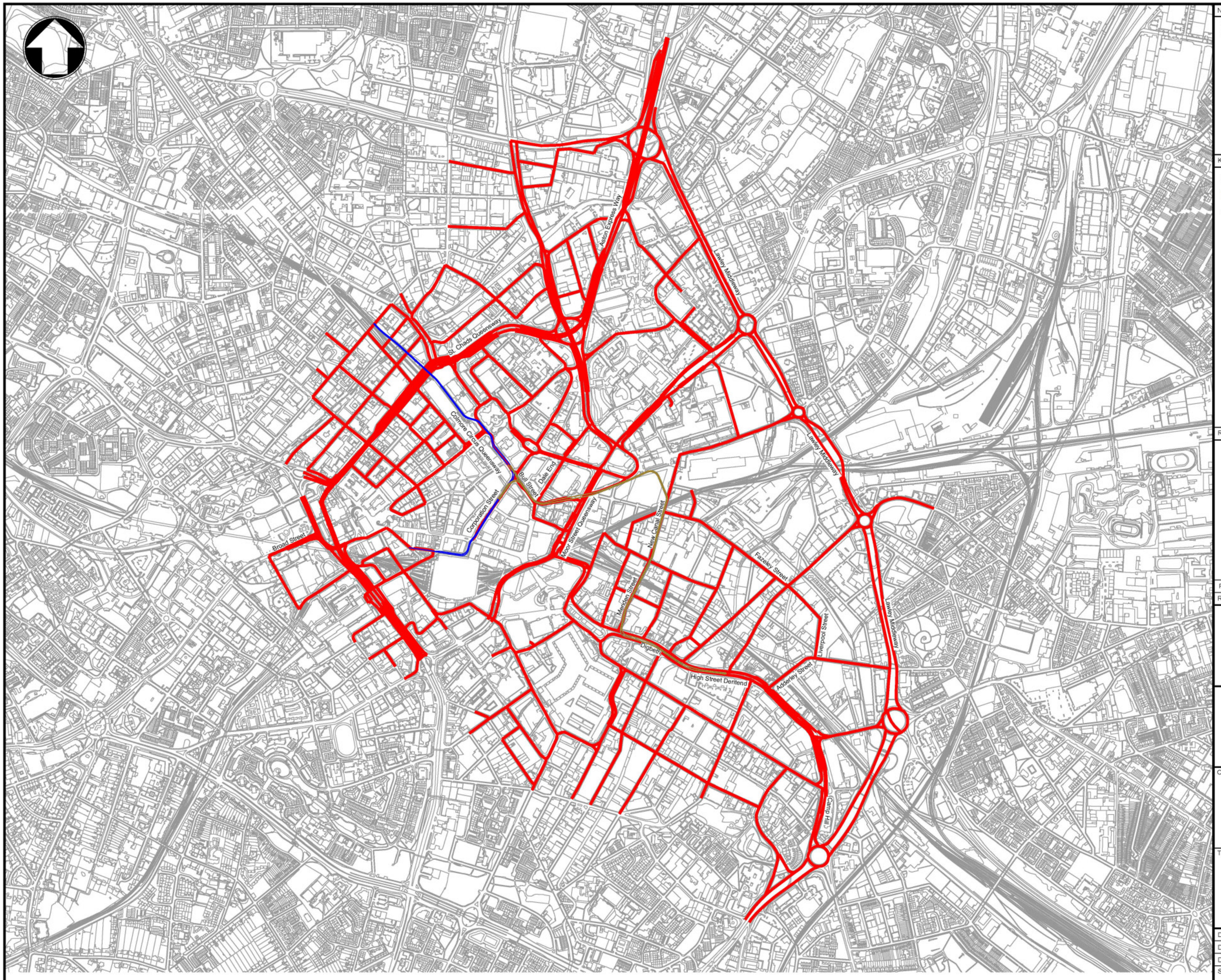
Designed	J. Burnell		Eng check	J. Burnell	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1	As Shown	Status	PRE	Rev	P1

Drawing Number
MMD-300207-HS30-DRA-0000-0402

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Modelled Roads

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	03.08.16	JK	Preliminary Issue	JB	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Extent of Roads Modelled
in Air Quality Assessment

Designed	J. Burnell		Eng check	J. Burnell	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
NTS	PRE	P1

Drawing Number
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Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- 1 Receptor

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	03.08.16	JK	Preliminary Issue	JB	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Receptors

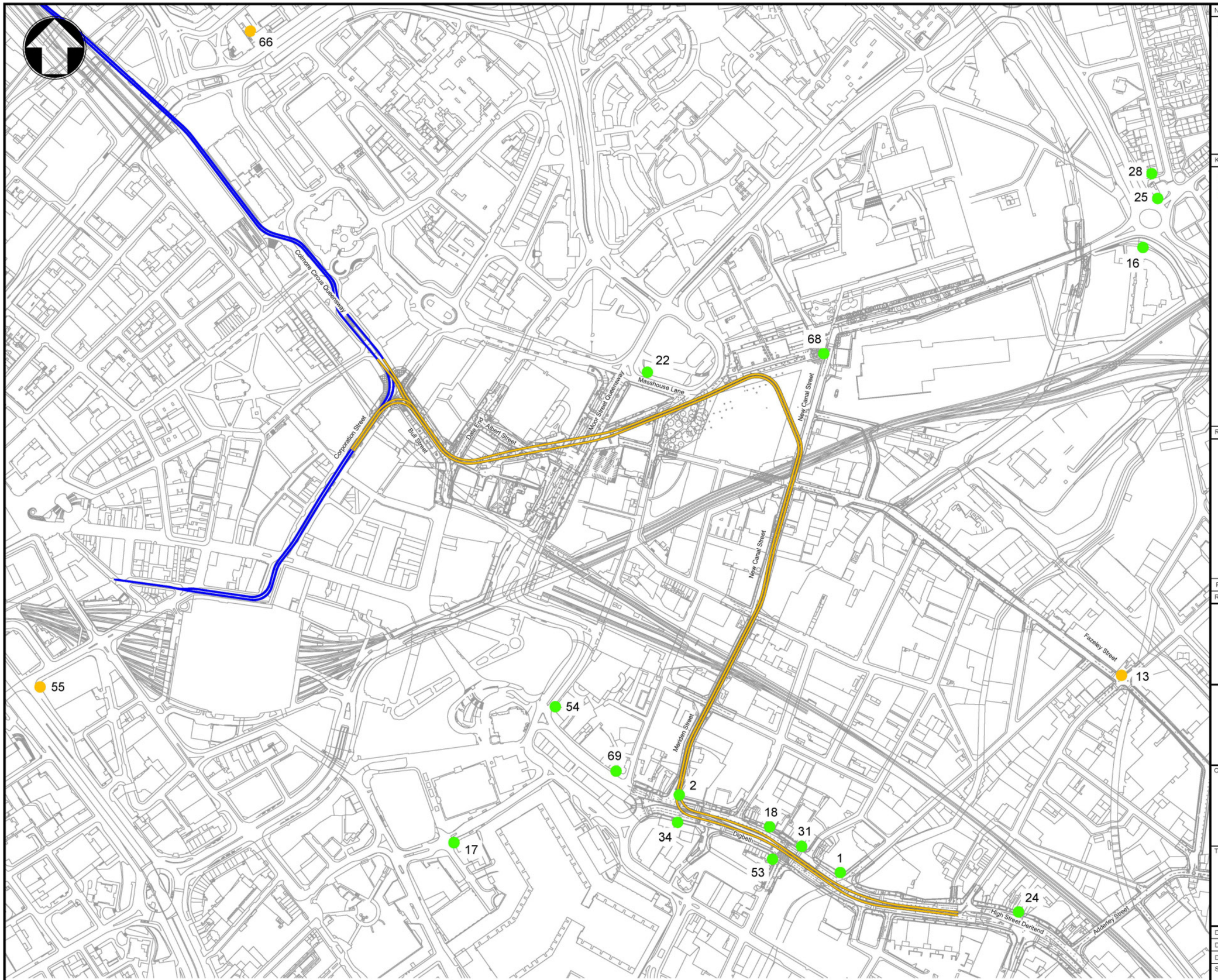
Designed	J. Burnell		Eng check	J. Burnell	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1 NTS		Status PRE		Rev P1	

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Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- 1 Beneficial Impact Receptor
- 1 Adverse Impact Receptor

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	08.08.16	JK	Preliminary Issue	JB	GL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Beneficial and Adverse
Air Quality Impacts

Designed	J. Burnell		Eng check	J. Burnell	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:2500	PRE	P1

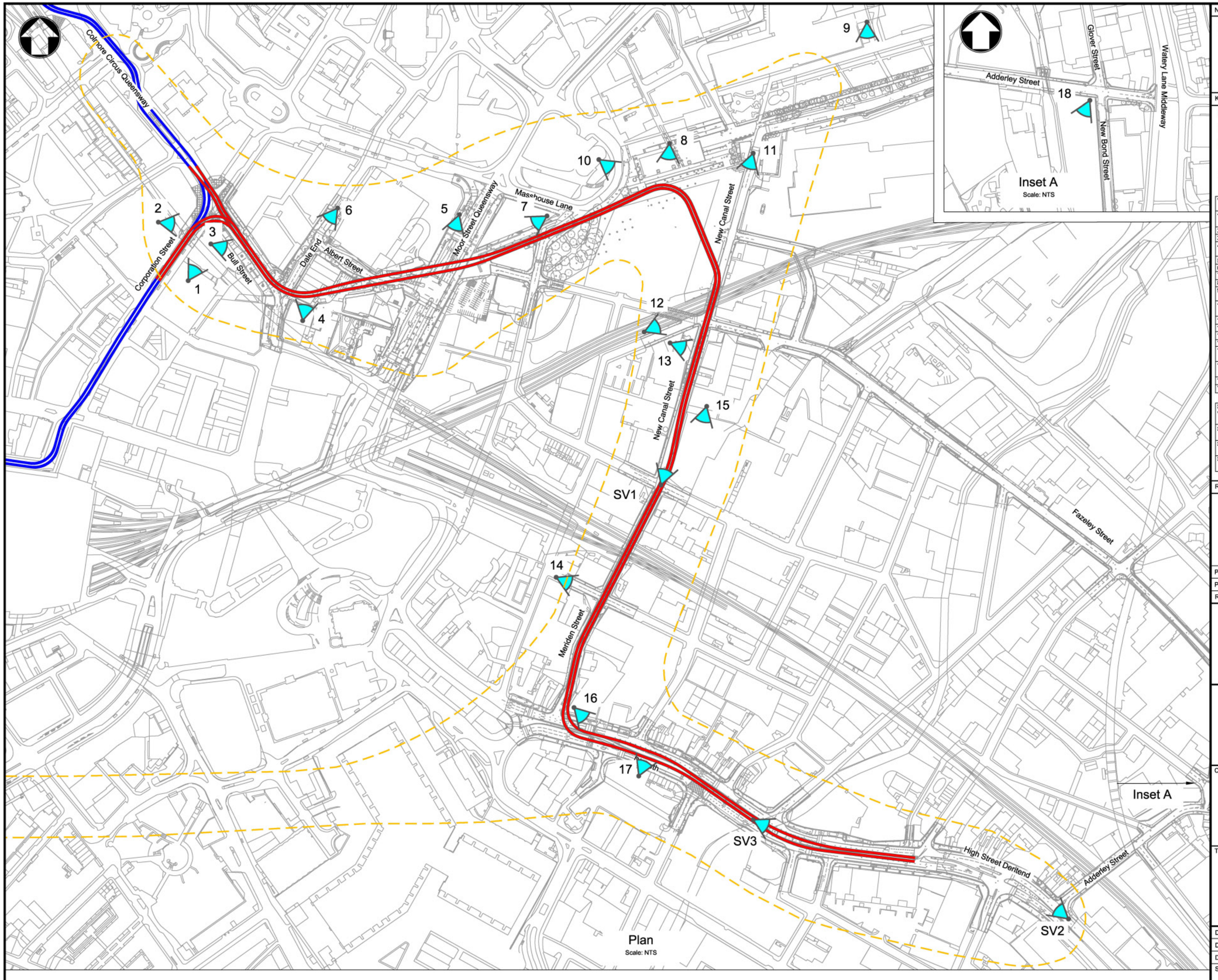
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1:2500 0 125m 250m



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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Visual Envelope
- Townscape Viewpoint

Viewpoint	Description
1.	Guests at Staybridge Suites and upper floors of buildings on Corportation Street and Bull Street.
2.	Pedestrians and users of Corporation Street shops.
3.	Pedestrian, users and workers in Bull Street shops, restaurants and offices.
4.	Guests at Travelodge, pedestrians in New Meeting Street amd Albert Street and workers in buildings on New Meeting Street.
5.	Pedestrians and road users of Moor Street Queensway.
6.	Workers, pedestrians and car park users in Dale End.
7.	Guests at Hotel Latour.
8.	Users of Eastside City Park.
9.	Users of Birmingham City University (BCU), BCU accomodation and Millenium Point.
10.	Residents of the Hive apartments along Park Street and occupiers in other parts of the Masshouse Development.
11.	Residents at The Woodman Public House, New Canal Street.
12.	Train users from Birmingham Moor Street.
13.	Residents in New Canal Street.
14.	Residents in flats along Allison Street.
15.	Pedestrians, users of evening venue and food outlet, and workers along New Canal Street and Meriden Street.
16.	Workers in offices and shops and pedestrians and road users of High Street Deritend.
17.	Residents in upper floors above shops along High Street Deritend.
18.	Pedestrians and workers in Adderley Street.

Significant Viewpoint	Description
SV1.	From New Canal Street: Warwich Bar (Bordesley) Conservation Area Appraisal.
SV2.	From High Street Deritend looking west and east: Digbeth, Deritend and Bordesley High Streets Conservation Area Appraisal.
SV3.	From High Street Deritend looking west and east: Digbeth, Deritend and Bordesley High Streets Conservation Area Appraisal.

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	16.08.16	JK	Viewpoint Locations Updated.	JM	GJL
P1	03.06.16	JK	Preliminary Issue.	NI	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Viewpoints Plan

Designed	N. Itrakjy		Eng check	N. Itrakjy	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
NTS	PRE	P2

Drawing Number
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Colmore Circus Queensway
Corporation Street
Bull Street
Dale End
Albert Street
Moor Street Queensway
Masshouse Lane
New Canal Street
Fazeley Street
Meriden Street
Digbeth
High Street Deritend
Addenbrooke Street
Liverpool Street

Notes

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2. All dimensions shown are given ion metres unless otherwise

Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Digbeth, Deritend and Bordesley High Streets Conservation Area Boundary
- Warwick Bar Conservation Area Boundary
- Colmore Row and Environs Conservation Area Boundary
- Steel House Conservation Area Boundary
- City Core Townscape Character Area
- Eastside Townscape Character Area
- Digbeth Townscape Character Area

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	16.08.16	JK	Digbeth and Eastside Townscape Character Areas Updated	JM	GJL
P1	08.06.16	JK	Preliminary Issue	NI	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Townscape Character Plan

Designed	N. Itrakjy		Eng check	N. Itrakjy	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
NTS	PRE	P2

Drawing Number
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3. The Zone of Theoretical Visibility (ZTV) is an indicative guide based on Light Detection and Ranging (LIDAR), an airborne mapping technique, which uses a laser to measure the distance between the aircraft and the ground. Up to 100,000 measurements per second are made of the ground, allowing highly detailed terrain models to be generated at spatial resolutions of between 25cm and 2 metres. The spatial reference of the data on this model was 1 metre.
4. The Environment Agency's LIDAR data archive from which the data for this model was sourced contains digital elevation data derived from surveys carried out by the Environment Agency's specialist remote sensing team. The dataset is a Digital Surface Model produced from the signal returned to the LIDAR (which includes heights of objects, such as vehicles, buildings and vegetation, as well as the terrain surface). The source of the data is the latest available (2015). The mapping context and resulting view shed analysis is open to variation with changes to the context of Birmingham urban environment over time.
5. The ZVT should be used as a guide. It should be noted that the model takes into account only the height of a proposed structure but not the overall form; it does not take into account location of windows within the affected buildings or limitations of sight and context. Conditions on the ground mat differ to the model.
6. The dataset has been presented as a ESRI ASCII Raster which contains height values, from which a viewshed analysis has been derived.

Key to symbols

- Proposed OLE Poles Location - Modeled at 8m height
- Proposed Sub Station Location - Modeled at 3m height
- Proposed Tram Stop Shelter Location - Modeled at 3.3m
- Proposed BEE Route

Zone of Theoretical Visibility - Viewshed Analysis

- Visible
- Not Visible

Reference drawings

LIDAR-DSM-1m-SP08, EA Data.gov, 2015

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	18.08.16	JK	ZTV Map Updated	JM	GJL
P1	14.07.16	JK	Preliminary Issue	NI	GJL

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Title
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Zone of Theoretical Visibility

Designed	N. Itrakjy		Eng check	N. Itrakjy	
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Scale at A1	Status	Rev
NTS	PRE	P2

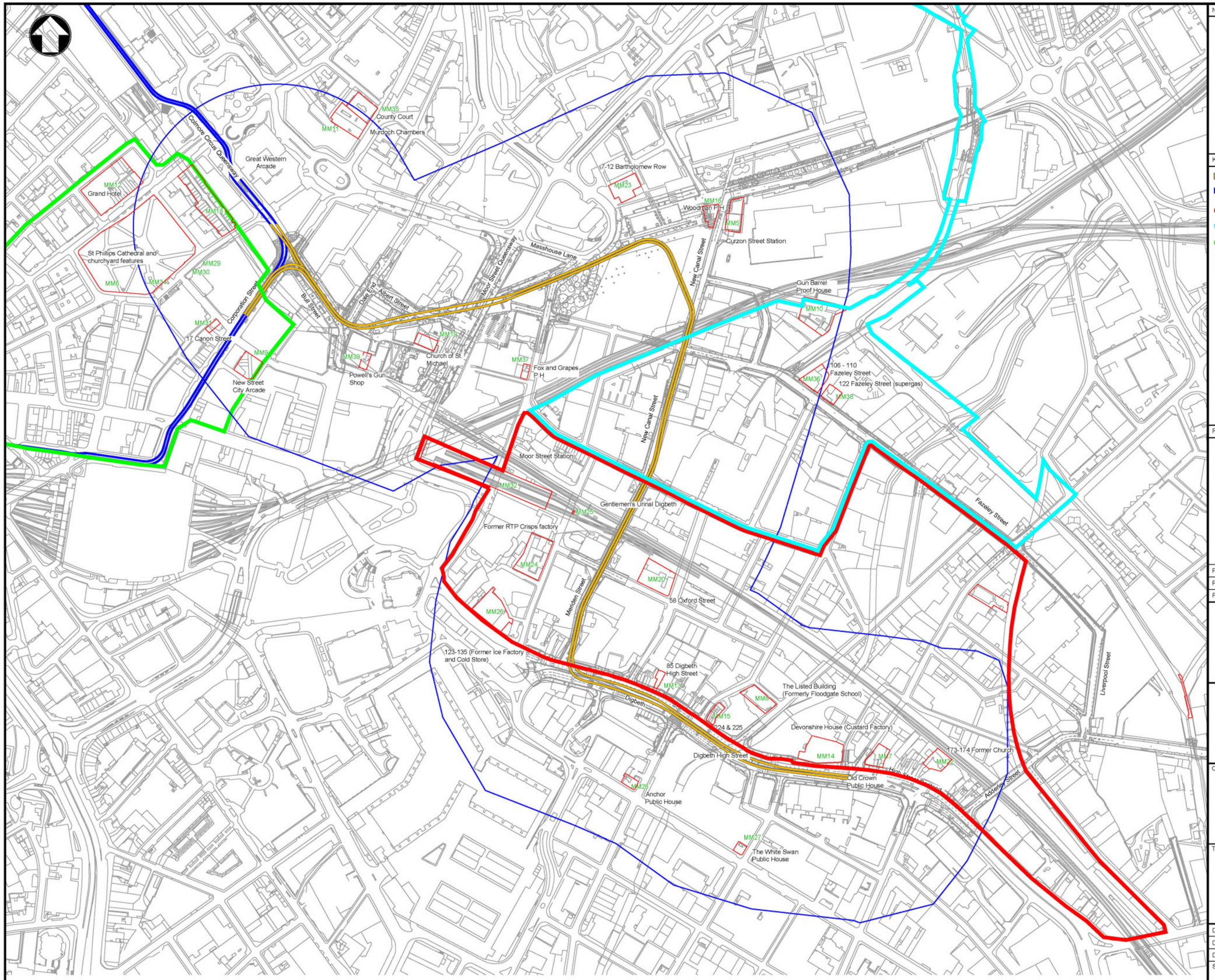
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1:2500 0 125m 250m



Notes

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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Digbeth, Deritend and Bordesley High Street Conservation Area Boundary
- Warwick Bar Conservation Area
- Colmore Row Conservation Area
- Statutory Listed Building
- Extents of Study Area

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	15.09.16	JK	Conservation Areas Ammended	PR	GJL
P1	03.06.16	JK	Preliminary Issue	PR	GJL

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Statutory Listed Buildings

Designed	P. Riccoboni		Eng check	P. Riccoboni	
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Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
NTS	PRE	P2

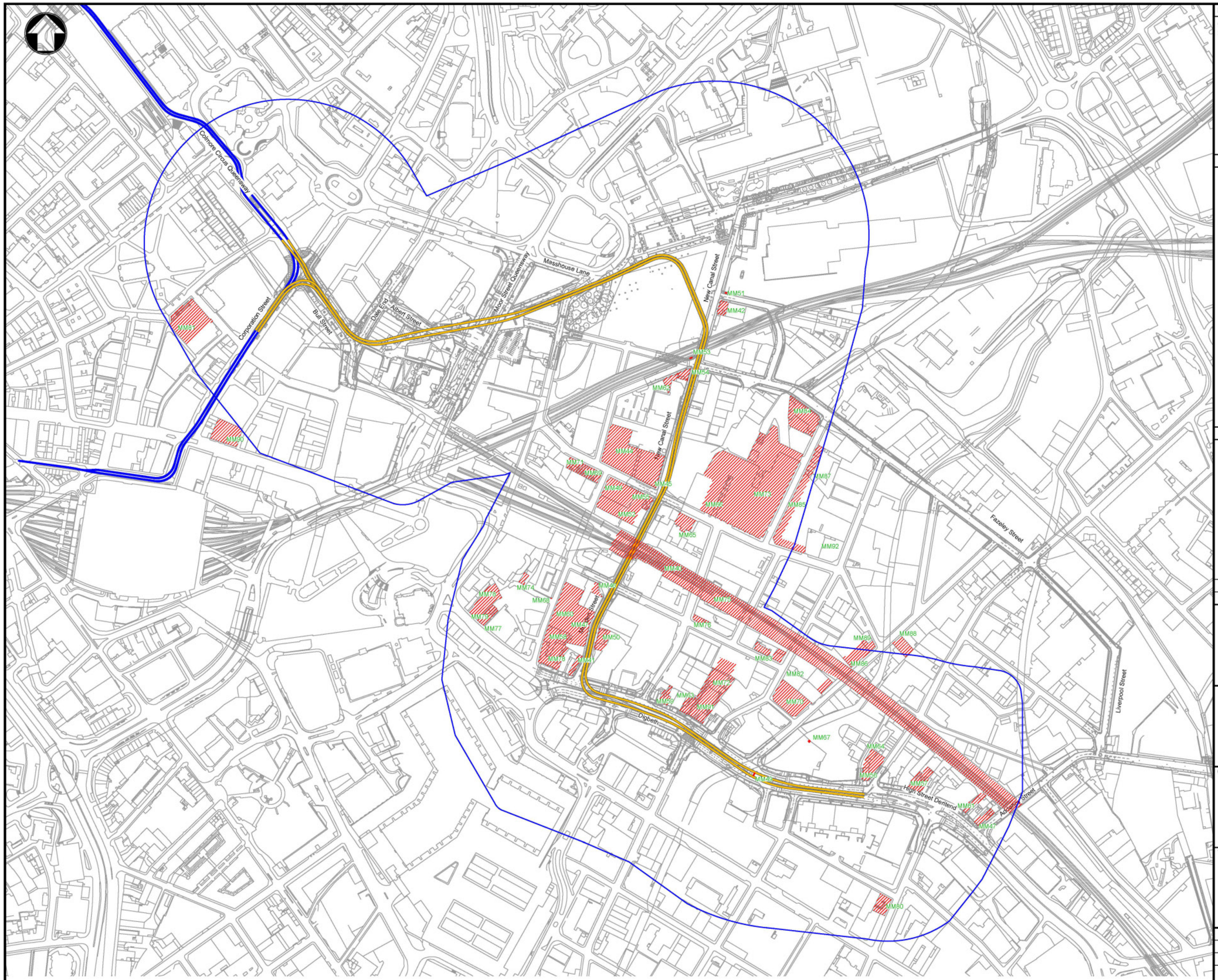
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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Locally Listed Buildings
- Extents of Study Area

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	02.06.16	JK	Preliminary Issue	PR	GJL

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Locally Listed Buildings

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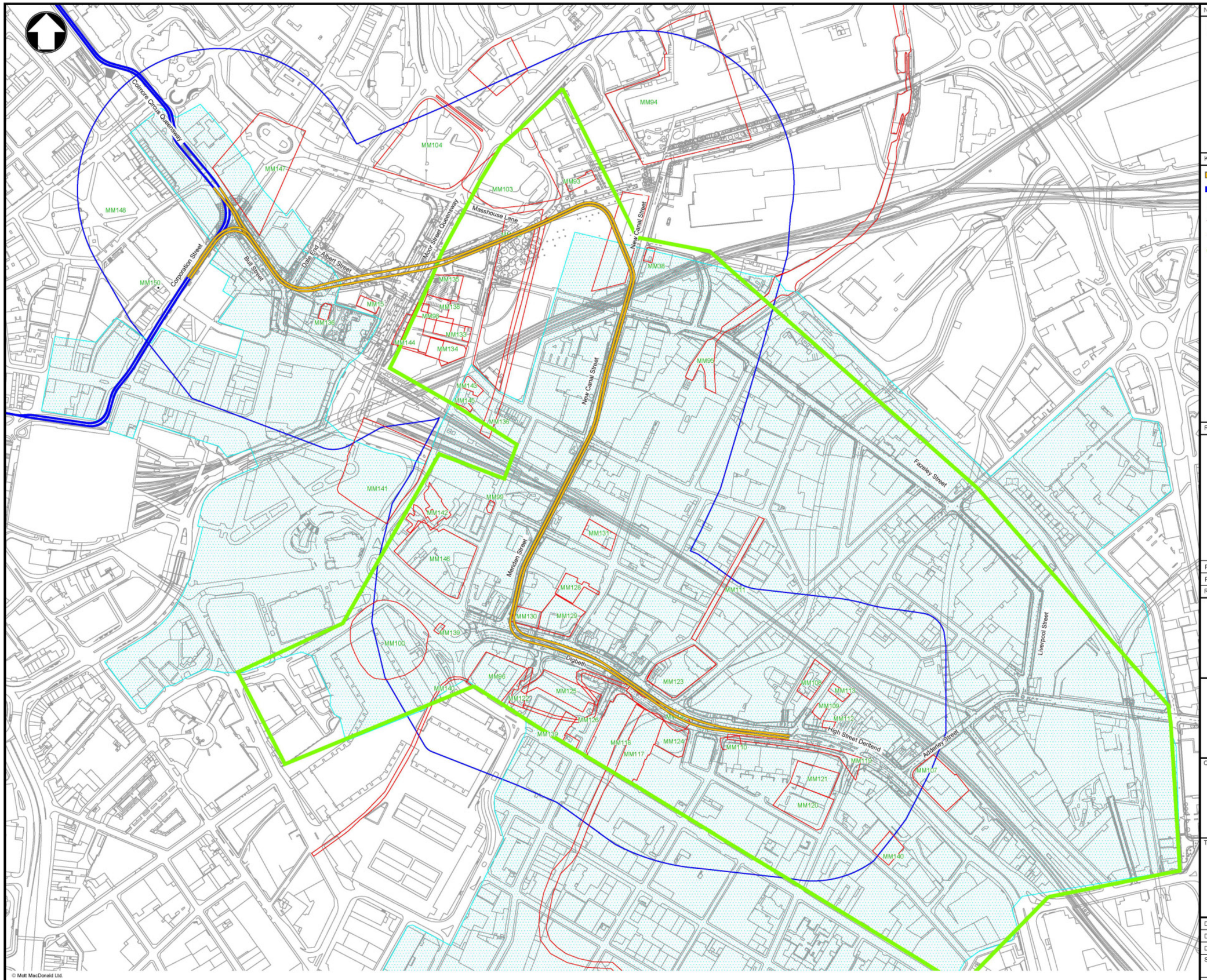
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1:2500



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Key to symbols

- Birmingham Eastside Extension
- Birmingham City Centre Extension
- Archaeological Priority Area
- Monument Data Region
- Extents of Study Area
- Area of Archaeological Significance

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	12.08.16	JK	Area of Archaeologic Significance Added	PR	GJL
P1	02.06.16	JK	Preliminary Issue	PR	GJL

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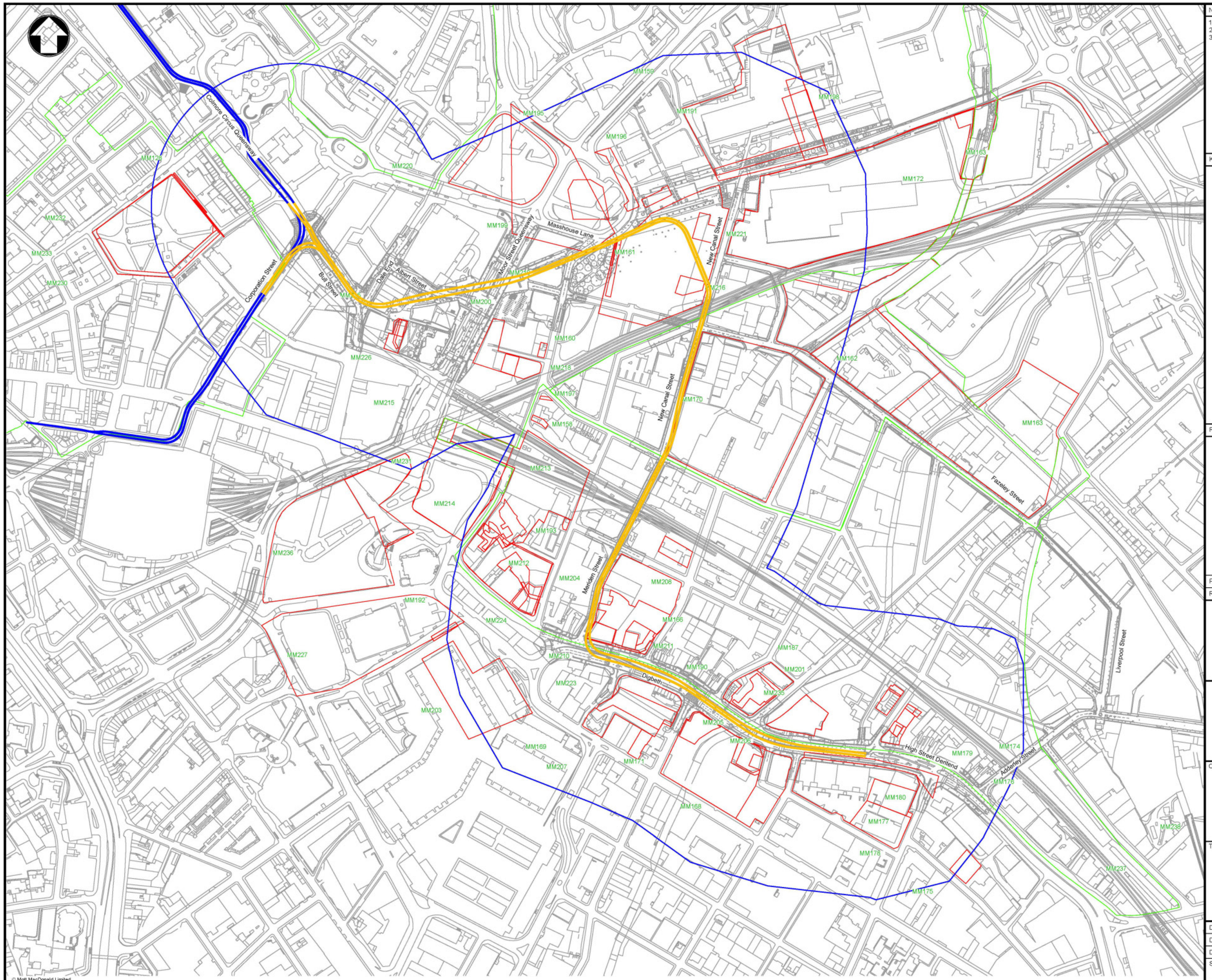
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3. For Archeaological Event Data please see technical appendix

Key to symbols

- Extents of Study Area
- Archeaological Event
- Conservation Area
- Birmingham Eastside Extension
- Birmingham City Centre Extension

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	02.06.16	JK	Preliminary Issue	PR	GJL

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Title
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Birmingham Eastside Extension
Event Data

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Scale at A1	1:2500	Status	PRE	Rev	P1

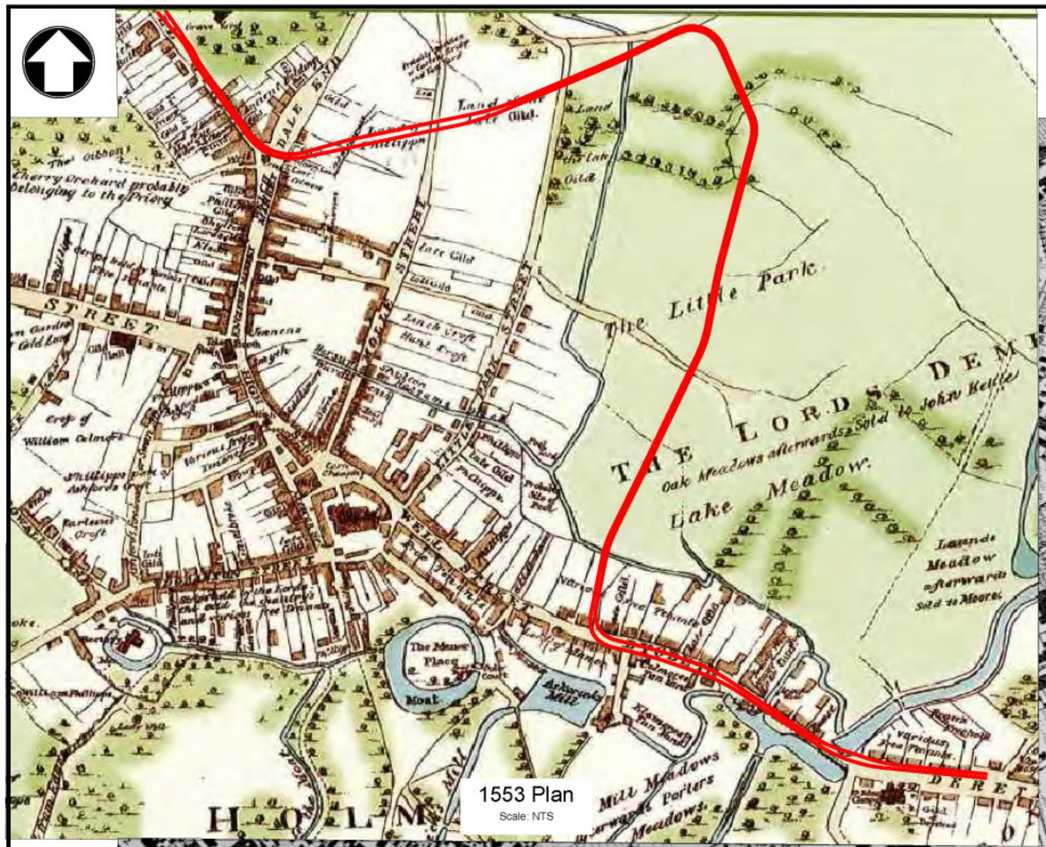
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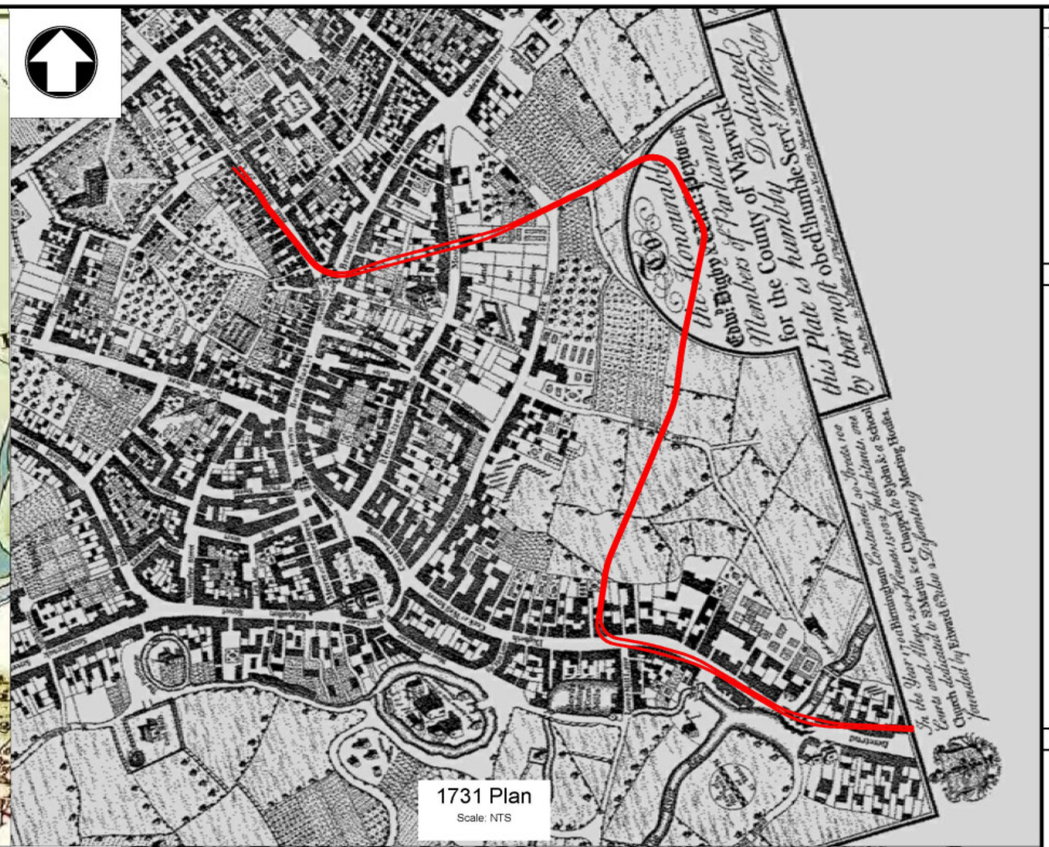
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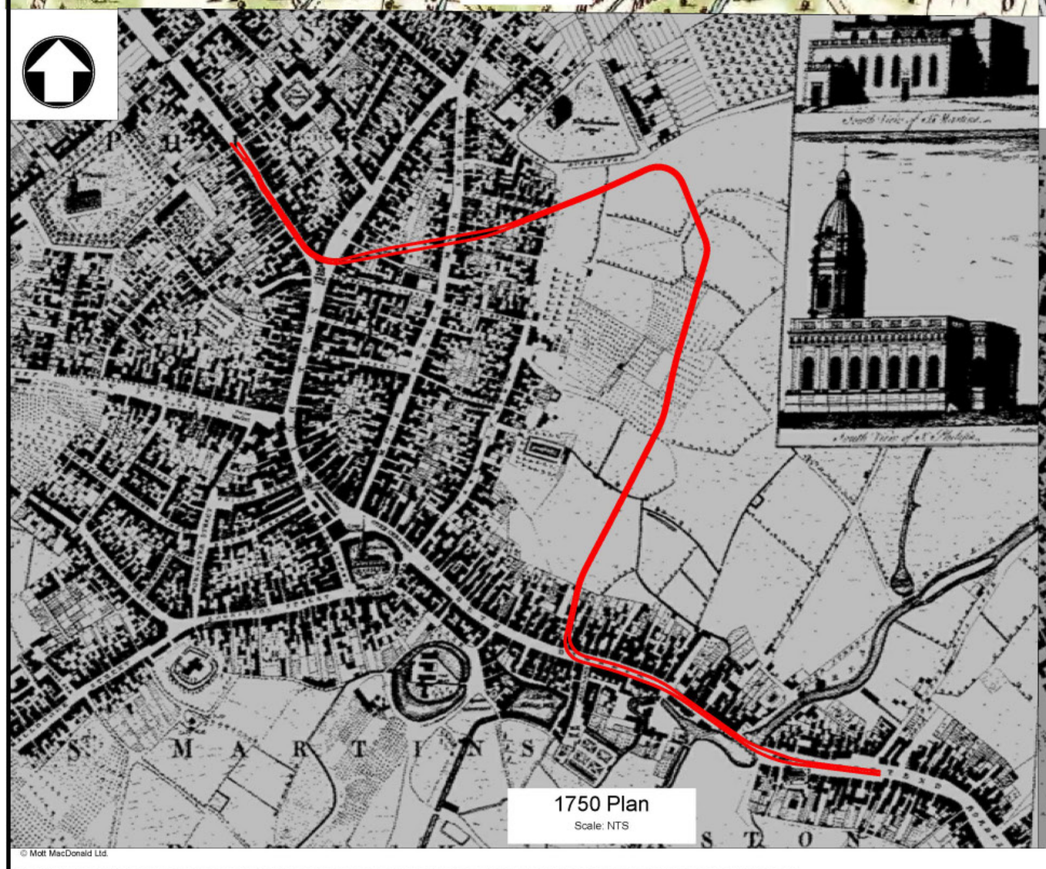
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1:2500



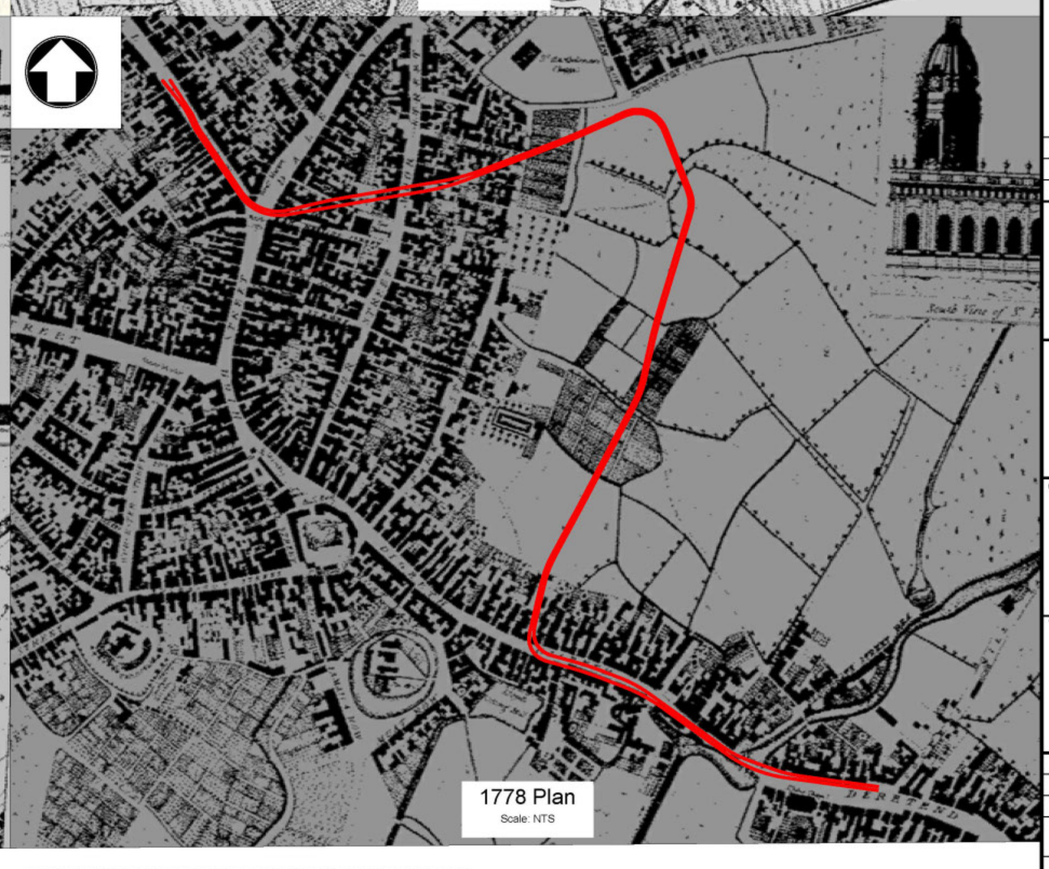
1553 Plan
Scale: NTS



1731 Plan
Scale: NTS



1750 Plan
Scale: NTS



1778 Plan
Scale: NTS

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Key to symbols

Birmingham Eastside Extension Route

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	15.08.16	JK	1553 Map Added	PR	GJL
P1	02.06.16	JK	Preliminary Issue	PR	GJL

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Title
Midland Metro Phase 2
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Historical Maps
(Sheet 1 of 2)

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Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

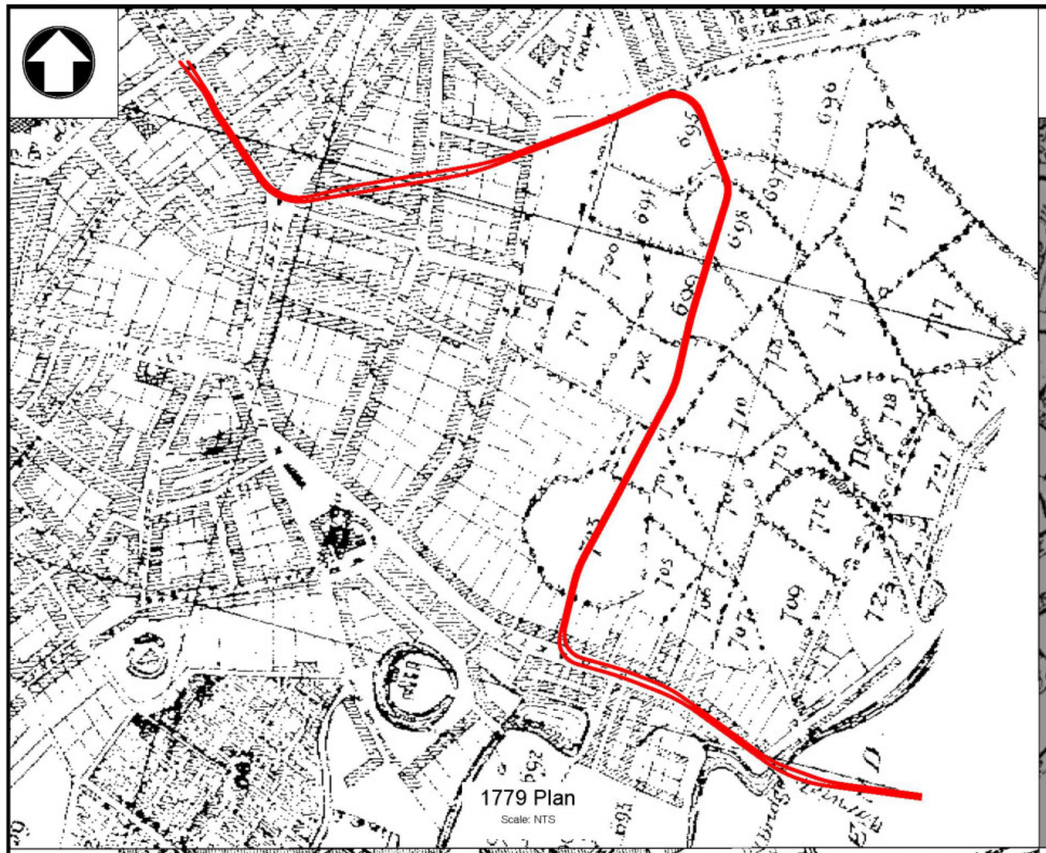
Scale at A1	Status	Rev
NTS	PRE	P2

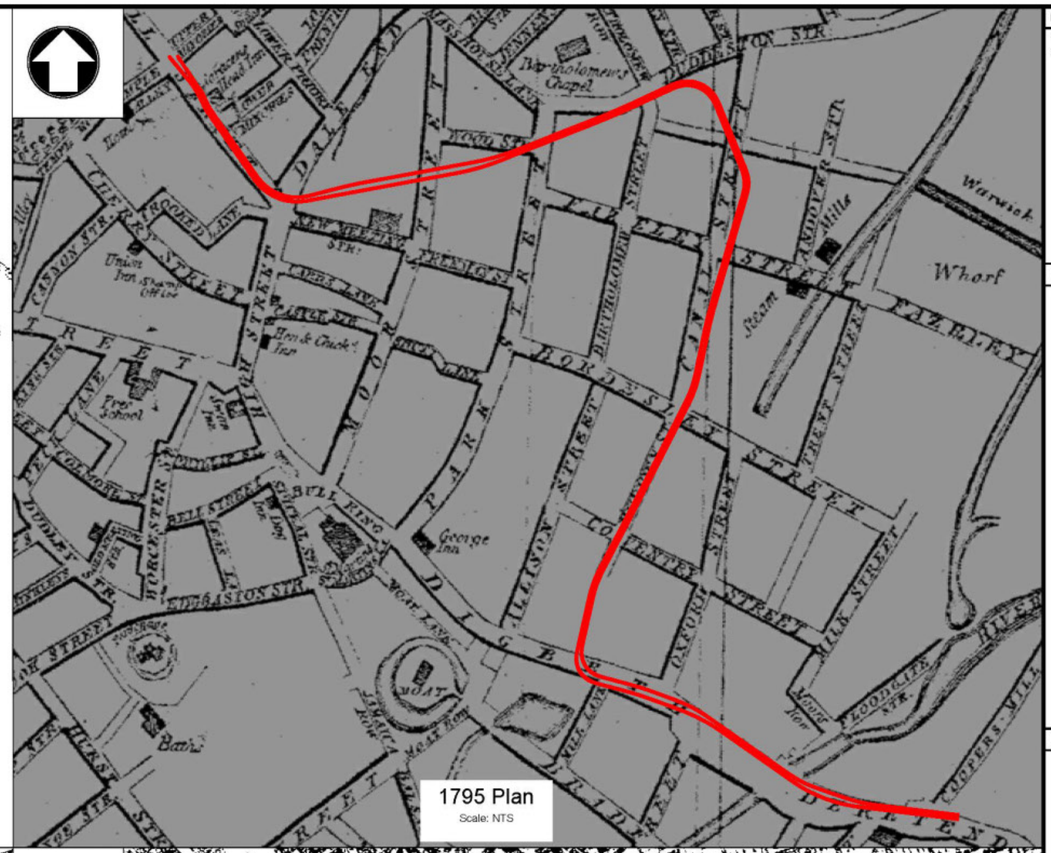
Drawing Number
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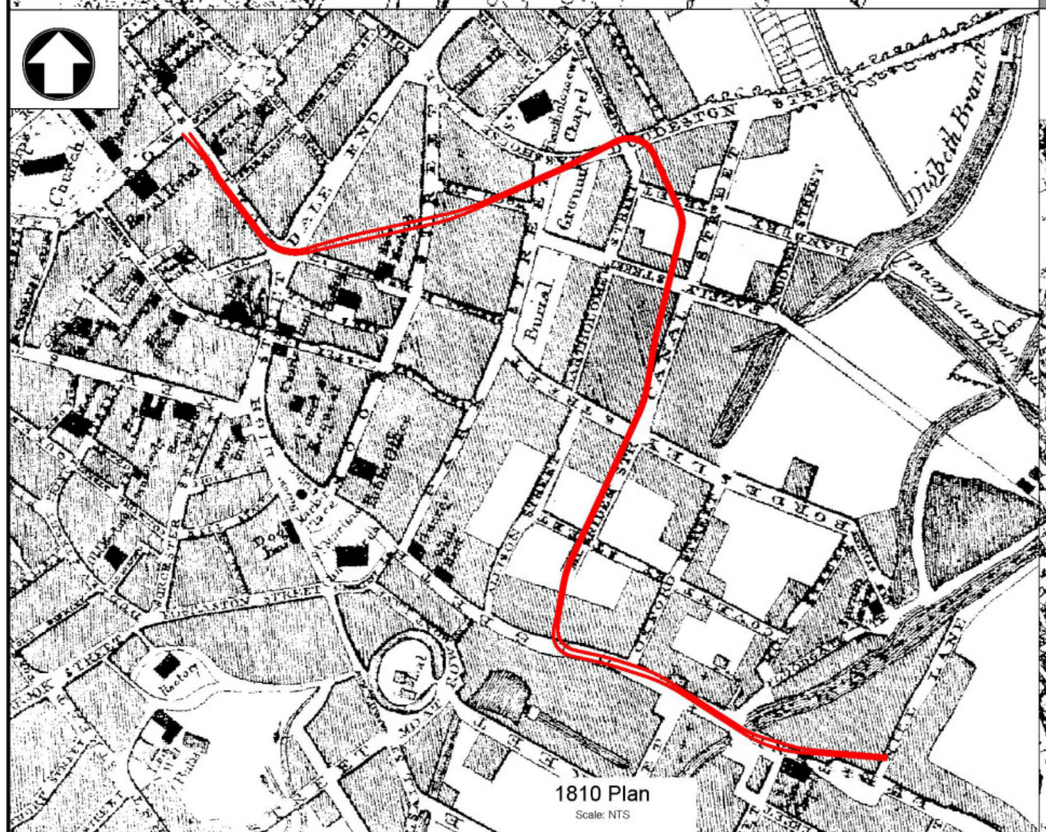
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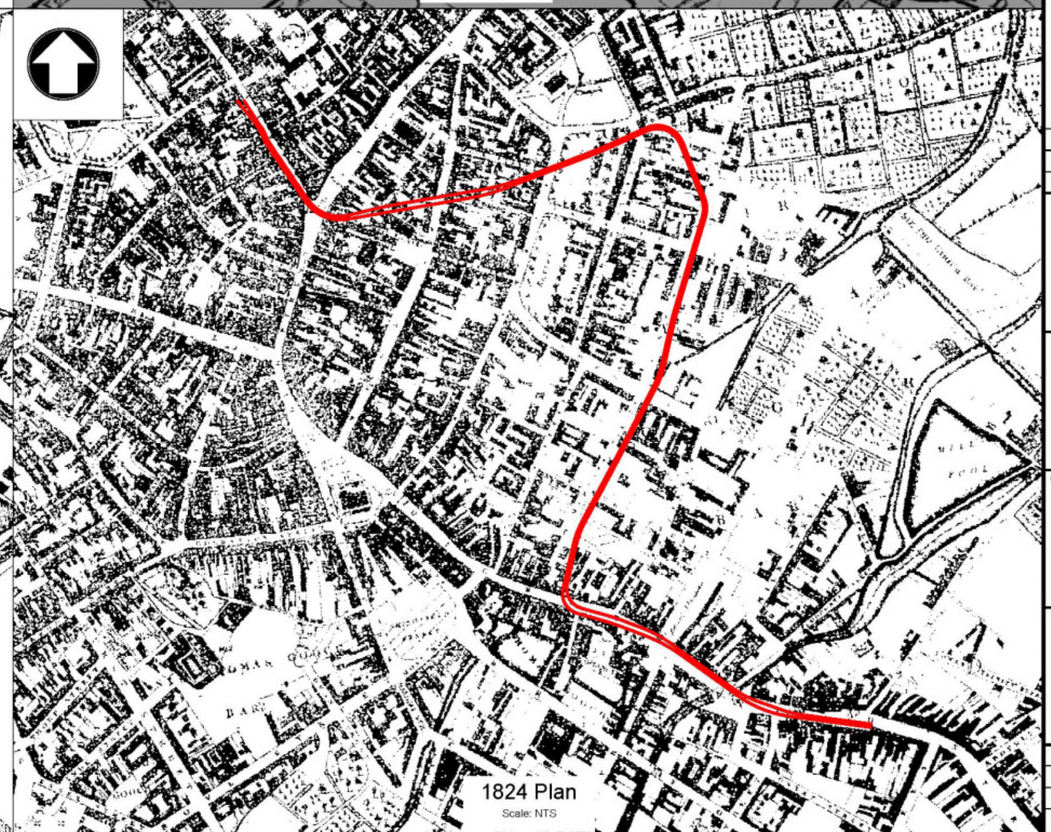
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Notes

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Key to symbols

Birmingham Eastside Extension Route

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	15.08.16	JK	1779 Map Added	PR	GJL
P1	02.06.16	JK	Preliminary Issue	PR	GJL

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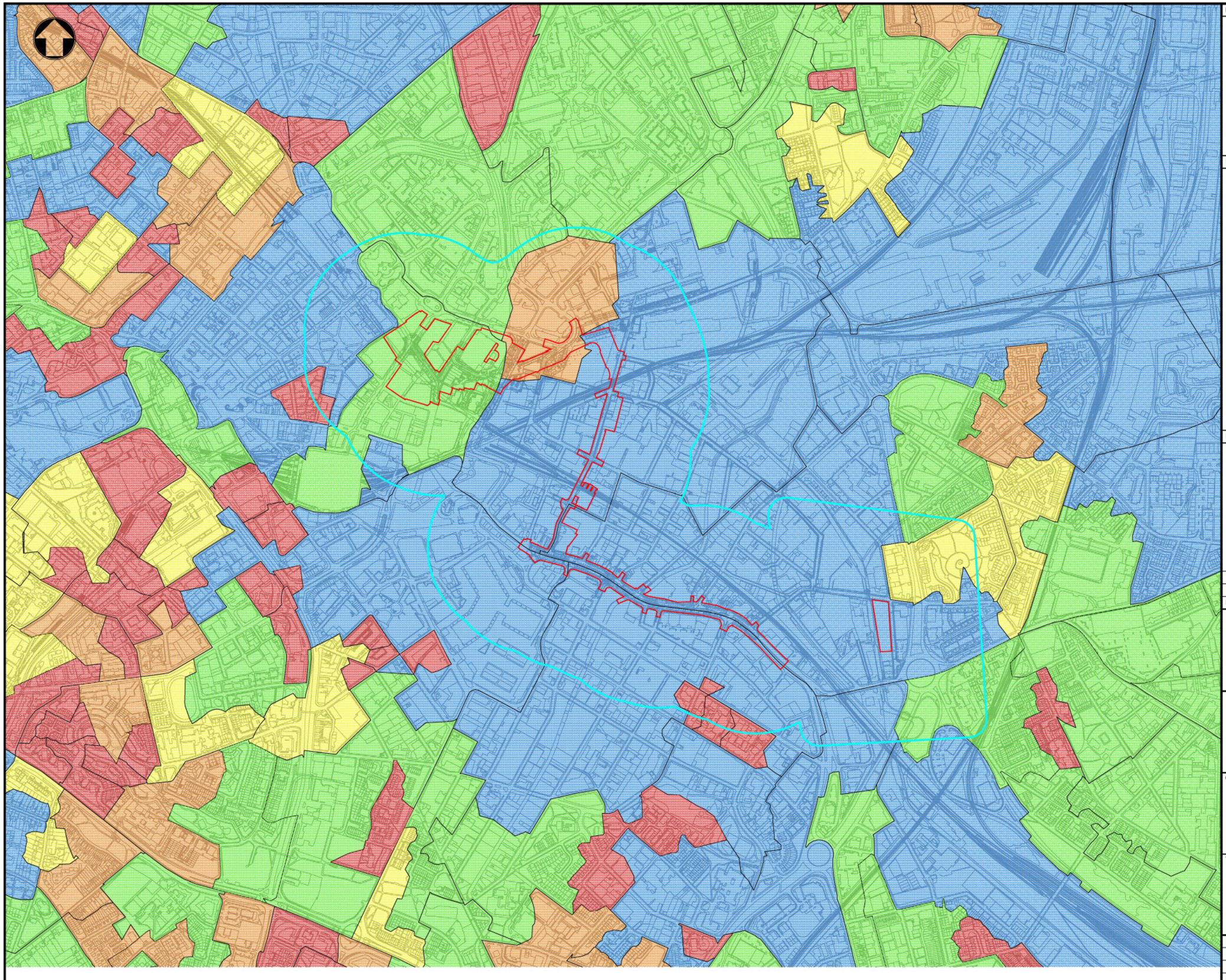
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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Historical Maps
(Sheet 2 of 2)

Designed	P. Ricconboni		Eng check	P. Riccoboni	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	
Scale at A1	NTS	Status	PRE	Rev	P2

Drawing Number
MMD-300207-HS30-DRA-0000-0006



Notes

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Key to symbols

Population Per Hectare
All usual residents

- > 100
- 75 - 100
- 50 - 75
- 25 - 50
- < 25
- Local Impact Area
- Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	09.09.16	JK	Scheme Boundary Updated.	JB	GJL
P1	07.06.16	JK	Preliminary Issue.	JB	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Population Density
All Usual Residents

Designed	J. Beard		Eng check	J. Beard	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:10,000	PRE	P2

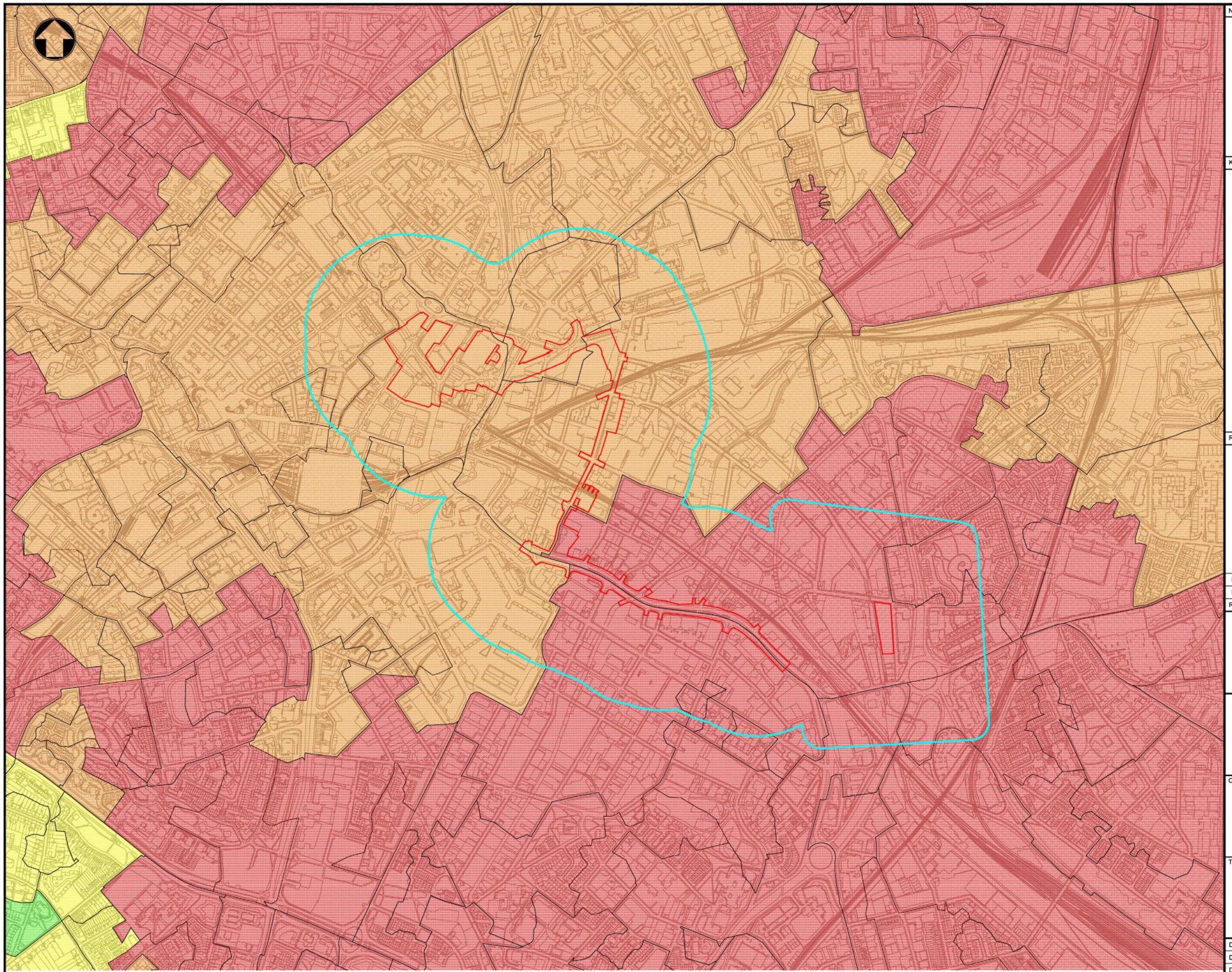
Drawing Number
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1:1000 0 50m 100m



Notes

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Key to symbols

Population Per Hectare
All usual residents

- Most Deprived Quintile
- Second Most Deprived Quintile
- Third Most Deprived Quintile
- Fourth Most Deprived Quintile
- Least Deprived Quintile
- Local Impact Area
- Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	09.09.16	JK	Scheme Boundary Updated.	JB	GJL
P1	07.06.16	JK	Preliminary Issue.	JB	GJL

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Title

Midland Metro Phase 2
Birmingham Eastside Extension
Index of Multiple Deprivation
Aggregate Deprivation Quintile

Designed	J. Beard		Eng check	J. Beard	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:10,000	PRE	P2

Drawing Number
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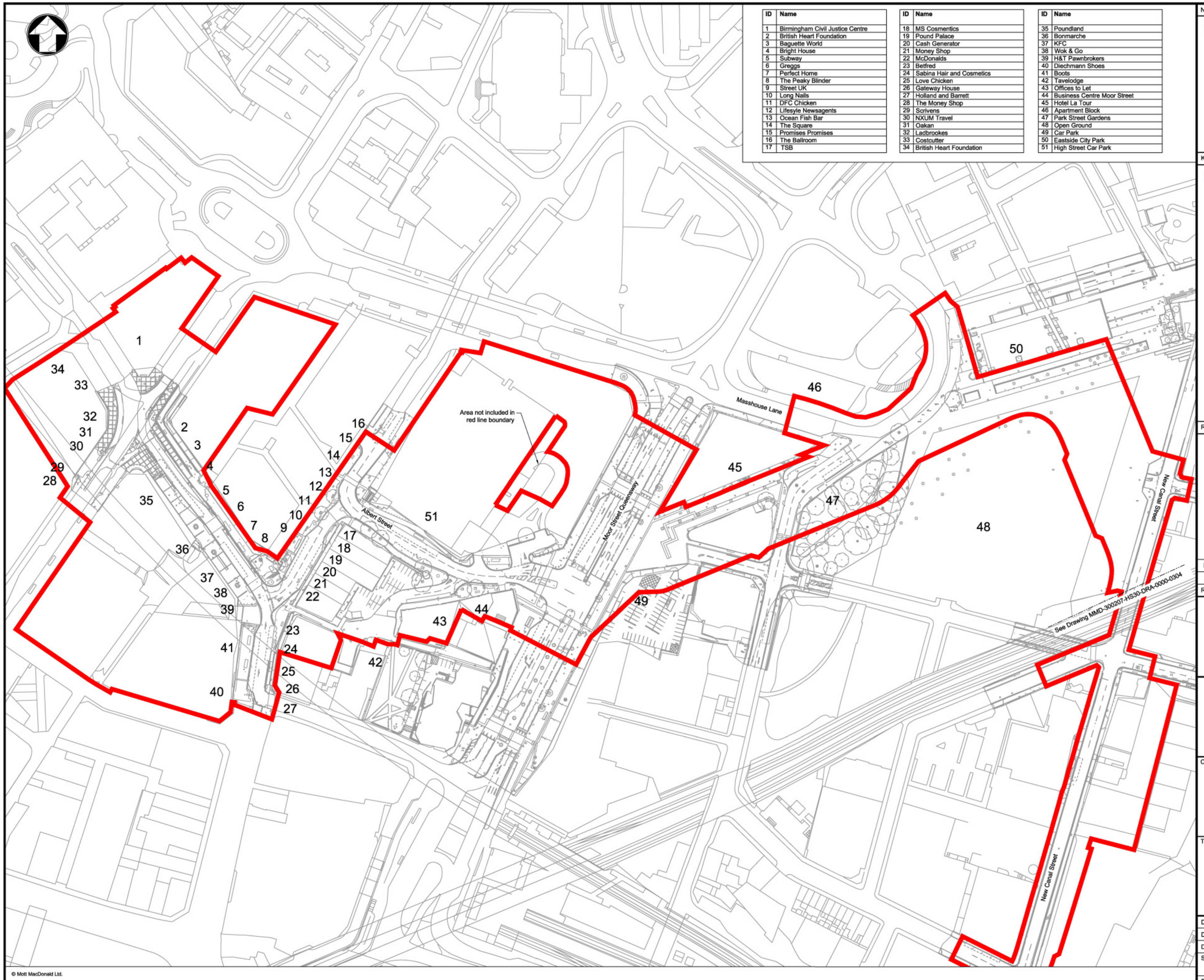
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1:1000 0 50m 100m

ID	Name
1	Birmingham Civil Justice Centre
2	British Heart Foundation
3	Baguette World
4	Bright House
5	Subway
6	Greggs
7	Perfect Home
8	The Peaky Blinder
9	Street UK
10	Long Nails
11	DFC Chicken
12	Lifesyle Newsagents
13	Ocean Fish Bar
14	The Square
15	Promises Promises
16	The Ballroom
17	TSB

ID	Name
18	MS Cosmentics
19	Pound Palace
20	Cash Generator
21	Money Shop
22	McDonalds
23	Betfred
24	Sabina Hair and Cosmetics
25	Love Chicken
26	Gateway House
27	Holland and Barrett
28	The Money Shop
29	Scrivens
30	NXUM Travel
31	Oakan
32	Ladbrookes
33	Costcutter
34	British Heart Foundation

ID	Name
35	Poundland
36	Bonmarche
37	KFC
38	Wok & Go
39	H&T Pawnbrokers
40	Diechmann Shoes
41	Boots
42	Travelodge
43	Offices to Let
44	Business Centre Moor Street
45	Hotel La Tour
46	Apartment Block
47	Park Street Gardens
48	Open Ground
49	Car Park
50	Eastside City Park
51	High Street Car Park



Notes

1. Do not scale any items or information from this drawing.
2. All dimensions are in metres unless otherwise stated.

Key to symbols

Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	16.09.16	JK	Scheme Boundary Updated.	JB	GJL
P1	08.06.16	JK	Preliminary Issue	JB	GJL

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Title
Midland Metro Phase 2
Birmingham Eastside Extension
Businesses and Amenities
(Sheet 1 of 3)

Designed	C. Walley		Eng check	J. Beard	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:1000	PRE	P2

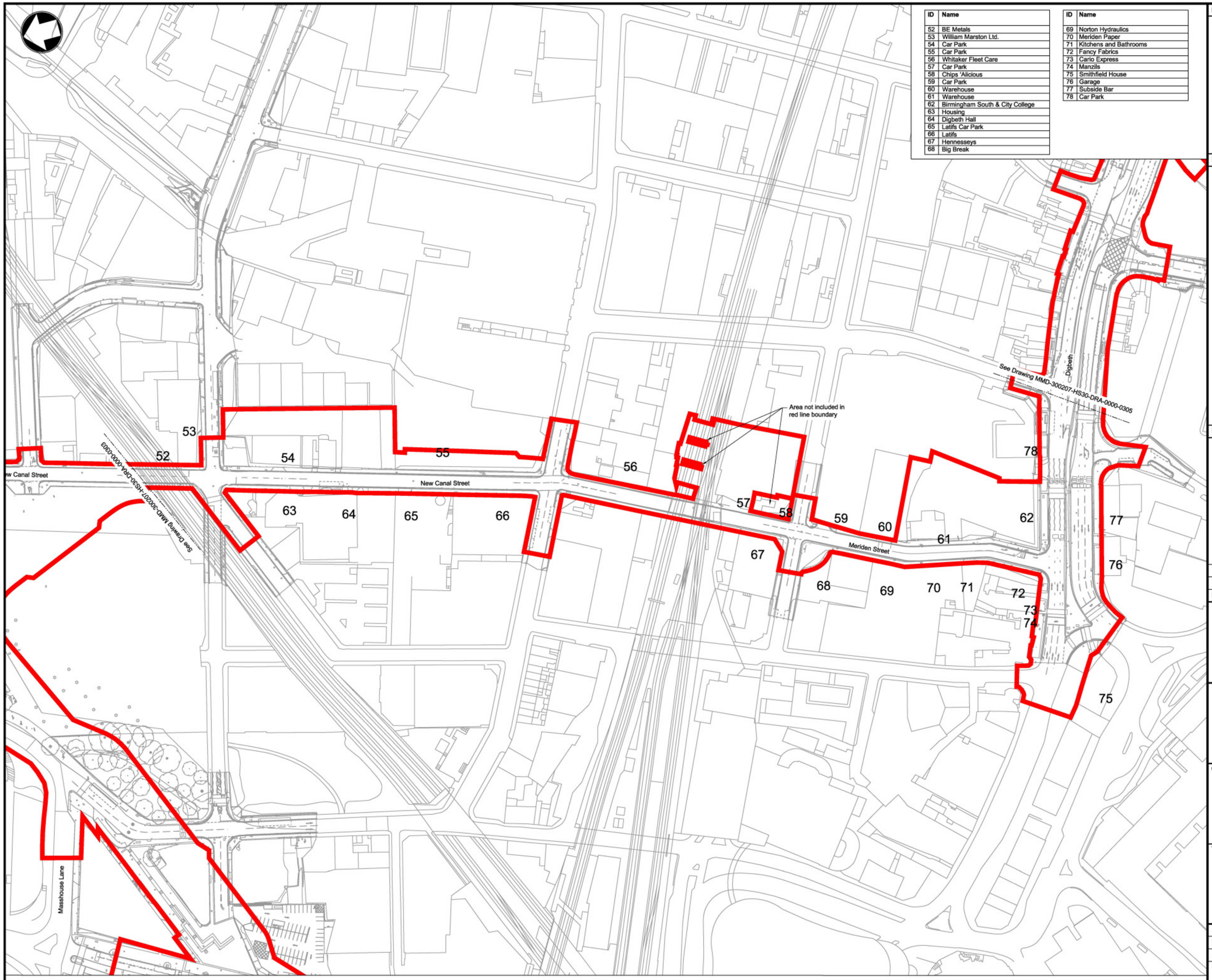
Drawing Number
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1:1000 0 50m 100m



ID	Name
52	BE Metals
53	William Marston Ltd.
54	Car Park
55	Car Park
56	Whitaker Fleet Care
57	Car Park
58	Chips 'Alicious
59	Car Park
60	Warehouse
61	Warehouse
62	Birmingham South & City College
63	Housing
64	Digbeth Hall
65	Latifs Car Park
66	Latifs
67	Hennesseys
68	Big Break

ID	Name
69	Norton Hydraulics
70	Meriden Paper
71	Kitchens and Bathrooms
72	Fancy Fabrics
73	Cario Express
74	Manzils
75	Smithfield House
76	Garage
77	Subside Bar
78	Car Park

Notes

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2. All dimensions are in metres unless otherwise stated.

Key to symbols

Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	16.09.16	JK	Scheme Boundary Updated.	JB	GJL
P1	08.07.16	JK	Preliminary Issue	JB	GJL

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Title
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Businesses and Emenities
(Sheet 2 of 3)

Designed	C. Walley		Eng check	J. Beard	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
1:1000	PRE	P2

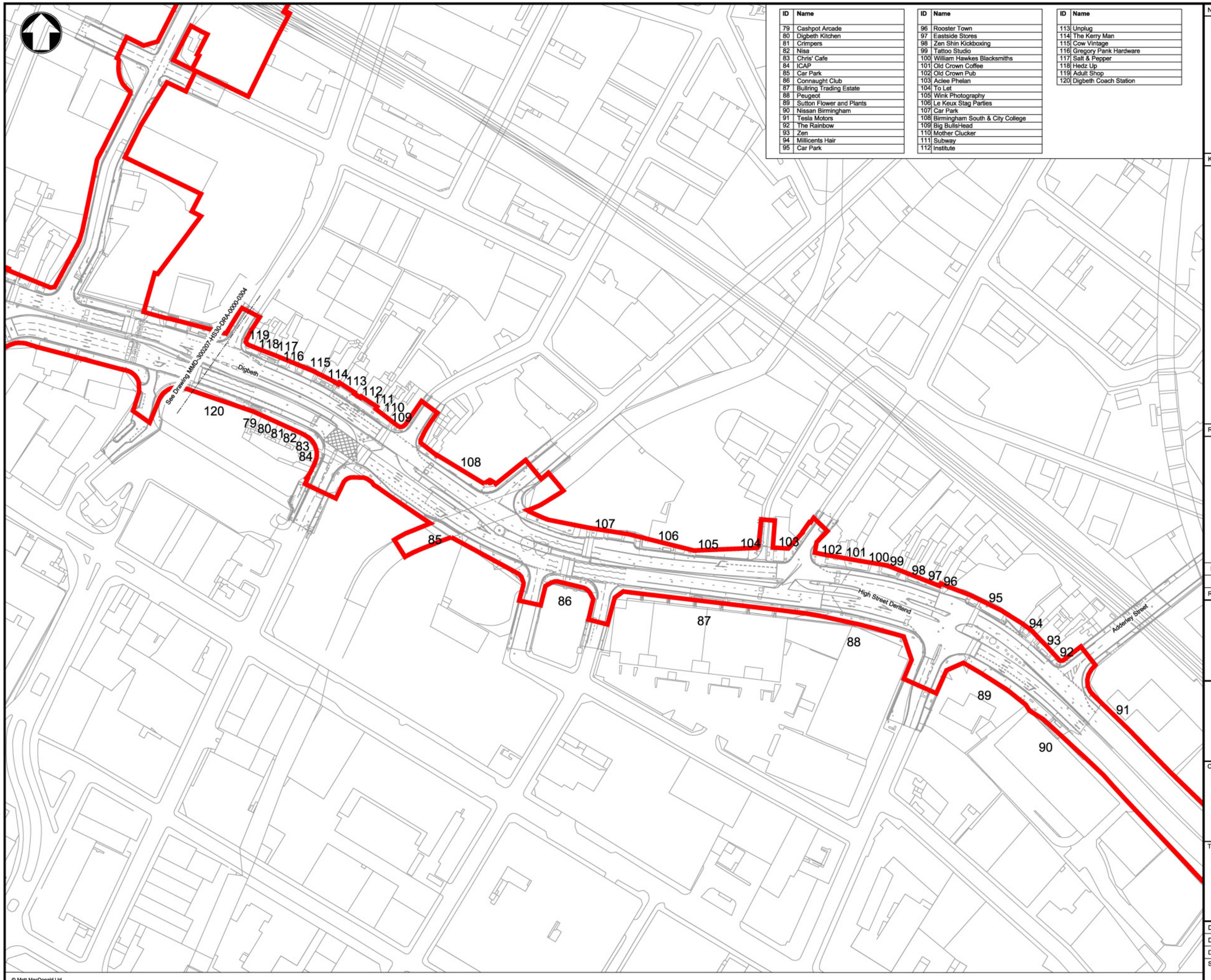
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1:1000 0 50m 100m



ID	Name
79	Cashpot Arcade
80	Digbeth Kitchen
81	Crimpers
82	Nisa
83	Chris' Cafe
84	ICAP
85	Car Park
86	Connaught Club
87	Bullring Trading Estate
88	Peugeot
89	Sutton Flower and Plants
90	Nissan Birmingham
91	Tesla Motors
92	The Rainbow
93	Zen
94	Millicents Hair
95	Car Park

ID	Name
96	Rooster Town
97	Eastside Stores
98	Zen Shin Kickboxing
99	Tattoo Studio
100	William Hawkes Blacksmiths
101	Old Crown Coffee
102	Old Crown Pub
103	Aclee Phelan
104	To Let
105	Wink Photography
106	Le Keux Stag Parties
107	Car Park
108	Birmingham South & City College
109	Big BullsHead
110	Mother Clucker
111	Subway
112	Institute

ID	Name
113	Unplug
114	The Kerry Man
115	Cow Vintage
116	Gregory Pank Hardware
117	Salt & Pepper
118	Hedz Up
119	Adult Shop
120	Digbeth Coach Station

Notes

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Key to symbols

Scheme Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	16.09.16	JK	Scheme Boundary Updated.	JB	GJL
P1	08.06.16	JK	Preliminary Issue	JB	GJL

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Title
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(Sheet 3 of 3)

Designed	C. Walley		Eng check	J. Beard	
Drawn	J. Kirby		Coordination	C. Searson	
Dwg check	A. Griffiths		Approved	G. Last	

Scale at A1	Status	Rev
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