

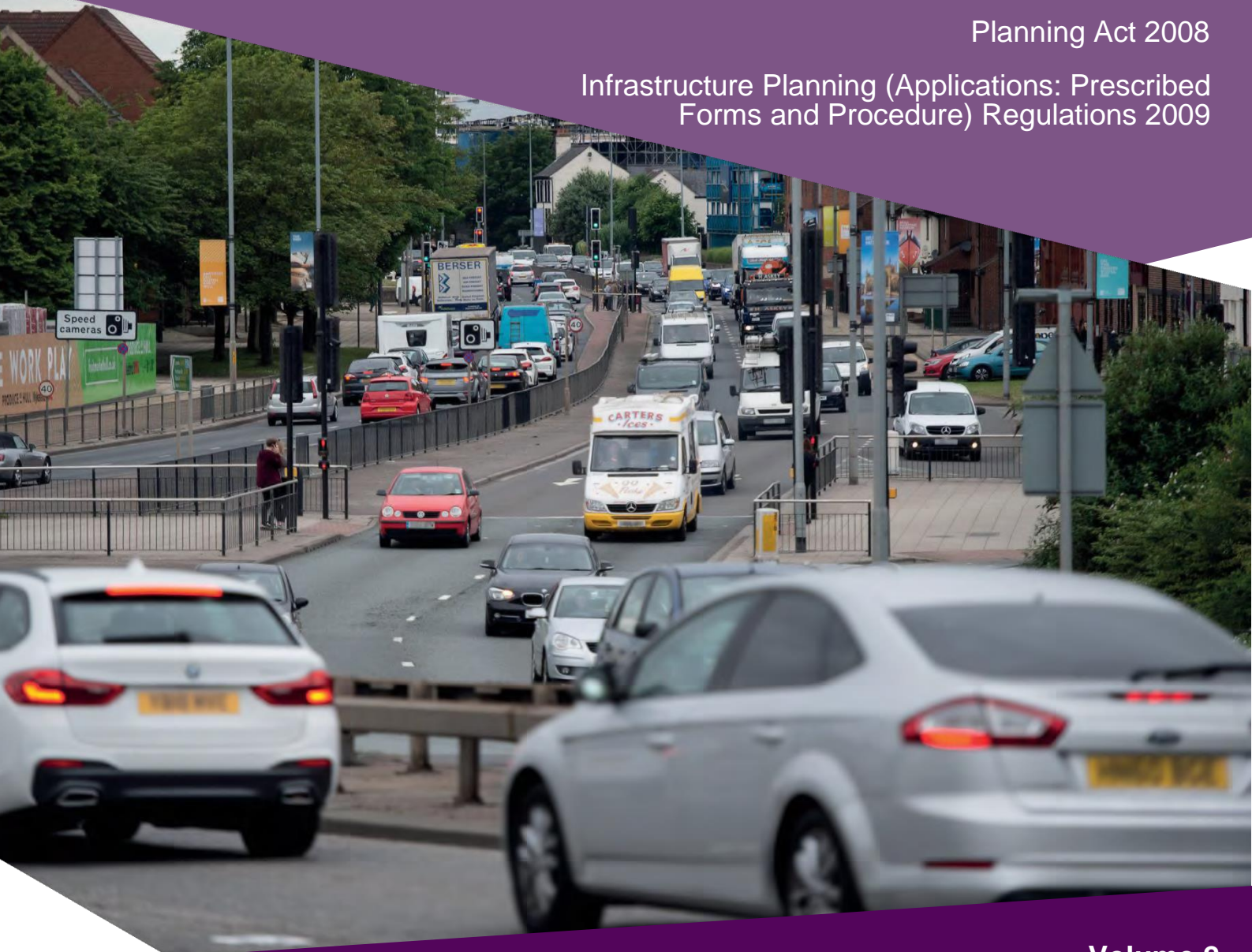
A63 Castle Street Improvement, Hull

Scheme Number: TR010016
2.7 Drainage Engineering Drawings

APFP Regulation 5(2)(o), 5(2)(p) and 5(4)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



Page left intentionally blank

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

**A63 (Castle Street Improvement, Hull)
Development Consent Order 20[]**

DRAINAGE ENGINEERING DRAWINGS

Regulation Number:	Regulations 5(2)(o), 5(2)(p) and Regulation 5(4)
Planning Inspectorate Scheme Reference	TR010016
Application Document Reference	TR010016/APP/2.7
Author:	A63 Castle Street Project Team

Version	Date	Status of Version
Rev 0	September 2018	Application Issue
<u>Rev 1</u>	<u>June 2019</u>	<u>Amendments for the Removal of Compound Option B and YW rising main</u>

Page left intentionally blank

CONTENTS

1	INTRODUCTION.....	1
2	SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT	3

Page left intentionally blank

1 INTRODUCTION

1.1 These Drainage Engineering Drawings (these “Plans”) relate to an application made by Highways England (the “Applicant”) to the Planning Inspectorate (the Inspectorate) under section 37 of the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO). If made, the DCO would grant consent for the Applicant to undertake the A63 (Castle Street Improvement, Hull) (the “Scheme”). A detailed description of the Scheme can be found in the **Environmental Statement (Application Document Reference TR010016/APP/6.1)**.

1.2 These Plans comprise part of the suite of Application documentation and are included in the Application in compliance with Regulation 5(2)(o), Regulation 5(2)(p) and Regulation 5(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009. These Regulations require that the application is accompanied by:

5(2)(o) “any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping;”

5(2)(p) “any of the documents prescribed by regulation 6 which are relevant to the particular project;”

5(4) “Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets”

1.3 As these Plans are part of the Application documentation, they should be read alongside and are informed by the other Application documents. In particular, the Plans should be read alongside Schedule 1 of the **Draft Development Consent Order (Application Document Reference TR010016/APP/3.1)** and the **Works Plans (Application Document Reference TR010016/APP/2.4)**.

~~1.4 Two options for the batching site compound have been included in the DCO application. The two options are the ‘Arco’ site (known as Option A, lying between Lister Street and the A63) and the ‘Staples’ site (known as Option B, lying in the north east quadrant of Mytongate junction). Detailed assessments and negotiations are progressing and it is not yet determined which site will be used, therefore within the Drainage Engineering Plans two plans have been provided for the Key Plan, one for Option A (TR010016/APP/2.7(AA)) and one for Option B (TR010016/APP/2.7(AB)) and two drawings for Sheet 3, one for Option A (TR010016/APP/2.7(DA)) and one for Option B (TR010016/APP/2.7(DB)). Compulsory powers will only be sought for one option once the Applicant has made a decision as to which site should be used.~~

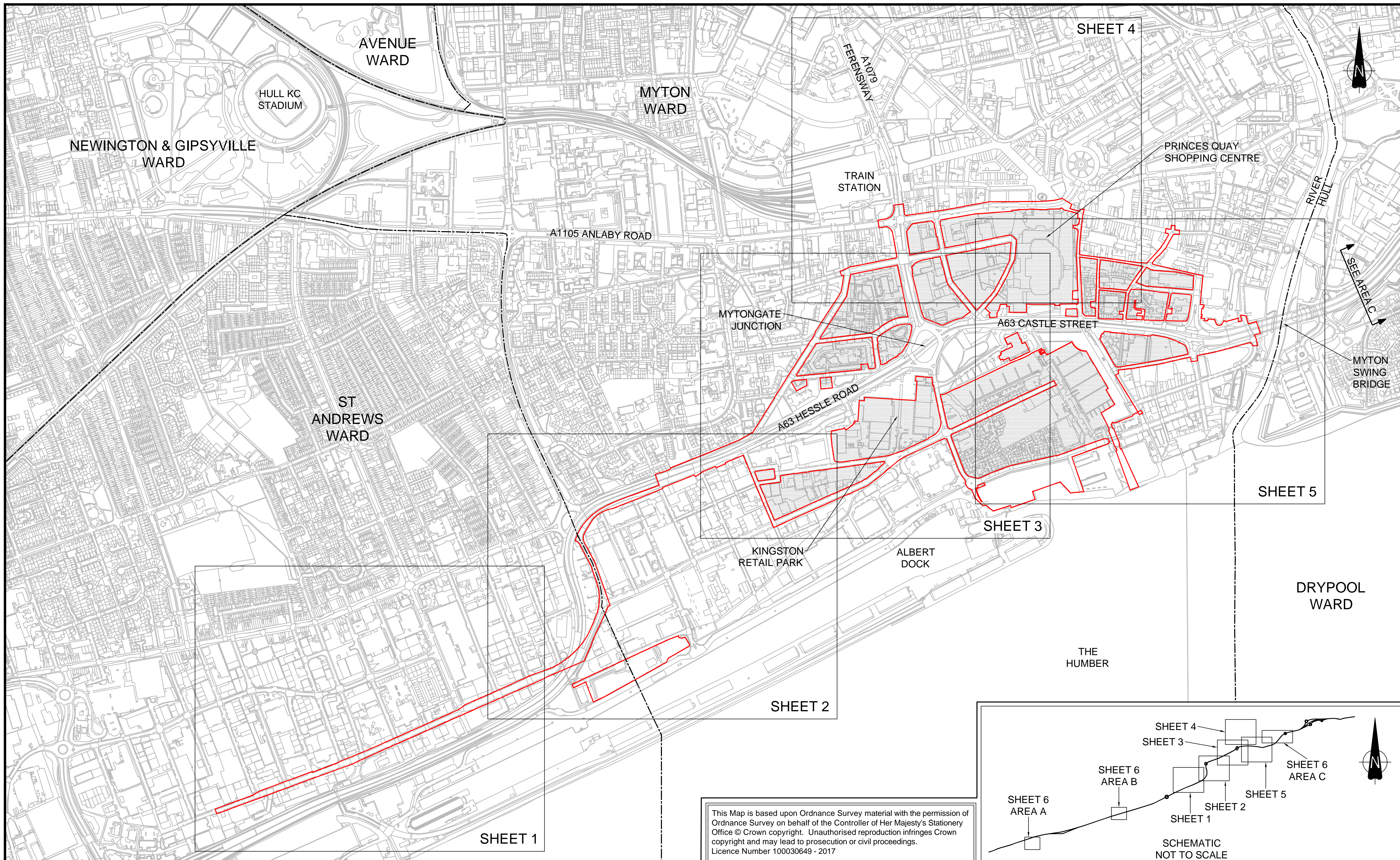
~~1.5 Two options for the spur of the rising main route are included in the DCO application. The first option for the rising main route is the connection to the existing Yorkshire Water Sewer in Commercial Road. The alternative option is the longer route to discharge via three possible locations into to the Humber Estuary. The Drainage Engineering Plans only show the preferred option which is the connection to the existing Yorkshire Water Sewer in Commercial Road. Compulsory powers will only be sought for one option once the Applicant has made a decision as to which route should be used.~~

Page left intentionally blank

2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

Drawing Title	Drawing Number	Revision
Drainage Engineering Drawings Regulation 5(4) Option A – Key Plan	TR010016/APP/2.7(AA)	0 <u>1</u>
Drainage Engineering Drawings Regulation 5(4) Option B – Key Plan	TR010016/APP/2.7(AB)	0
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) – Sheet 1 of 6	TR010016/APP/2.7(B)	0 <u>1</u>
Drainage Engineering Drawings Regulation 5(2)(o) and 5(2)(p) - Sheet 2 of 6	TR010016/APP/2.7(C)	0 <u>1</u>
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) – Option A – Sheet 3 of 6	TR010016/APP/2.7(DA)	0 <u>1</u>
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) – Option B – Sheet 3 of 6	TR010016/APP/2.7(DB)	0
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) - Sheet 4 of 6	TR010016/APP/2.7(E)	0 <u>1</u>
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) - Sheet 5 of 6	TR010016/APP/2.7(F)	0 <u>1</u>
Drainage Engineering Drawings Regulations 5(2)(o) and 5(2)(p) - Sheet 6 of 6	TR010016/APP/2.7(G)	0 <u>1</u>

Page left intentionally blank

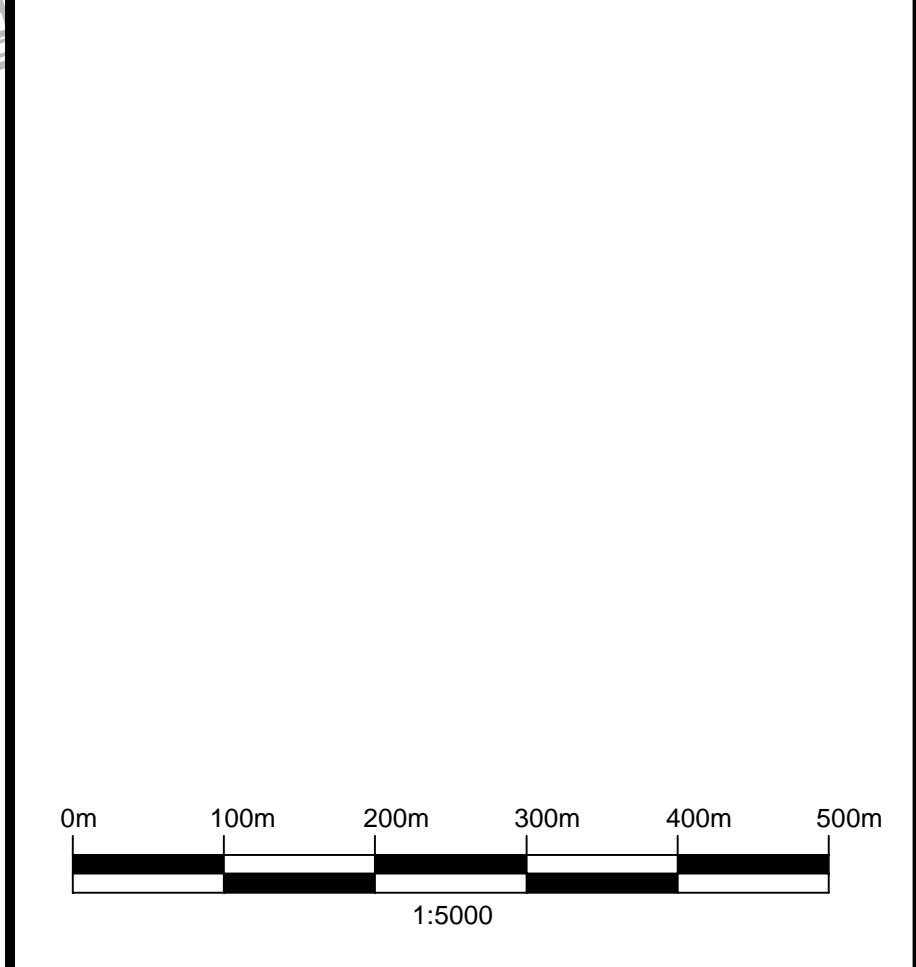


NOTES

- ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- WARD BOUNDARIES
- AREA NOT INCLUDED IN THE ORDER LIMITS



Rev.	Date	Amendment Details	Drawn	Chk'd	App'd
1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco

Client **highways england**

Drawing Status **SHARED**

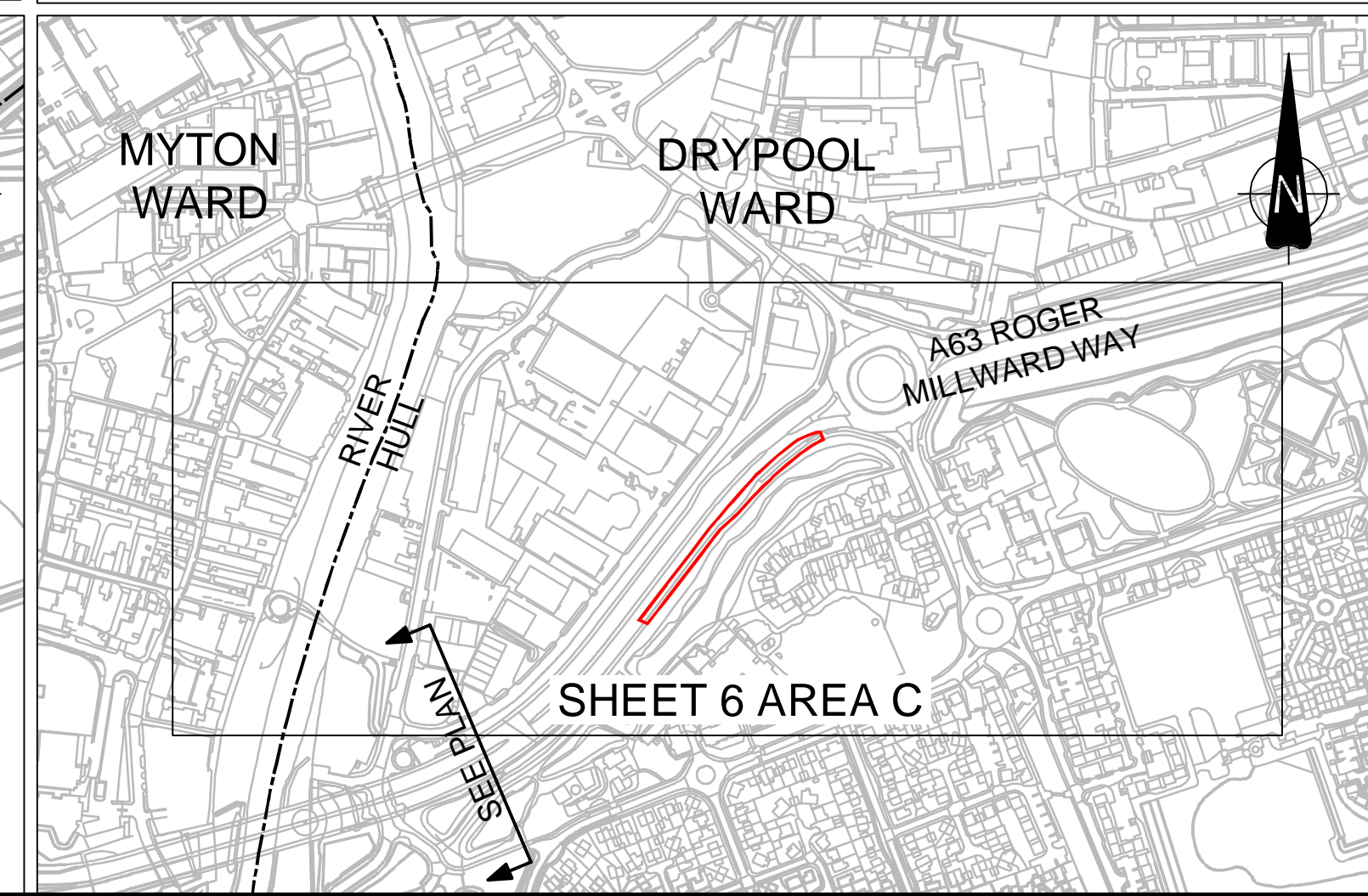
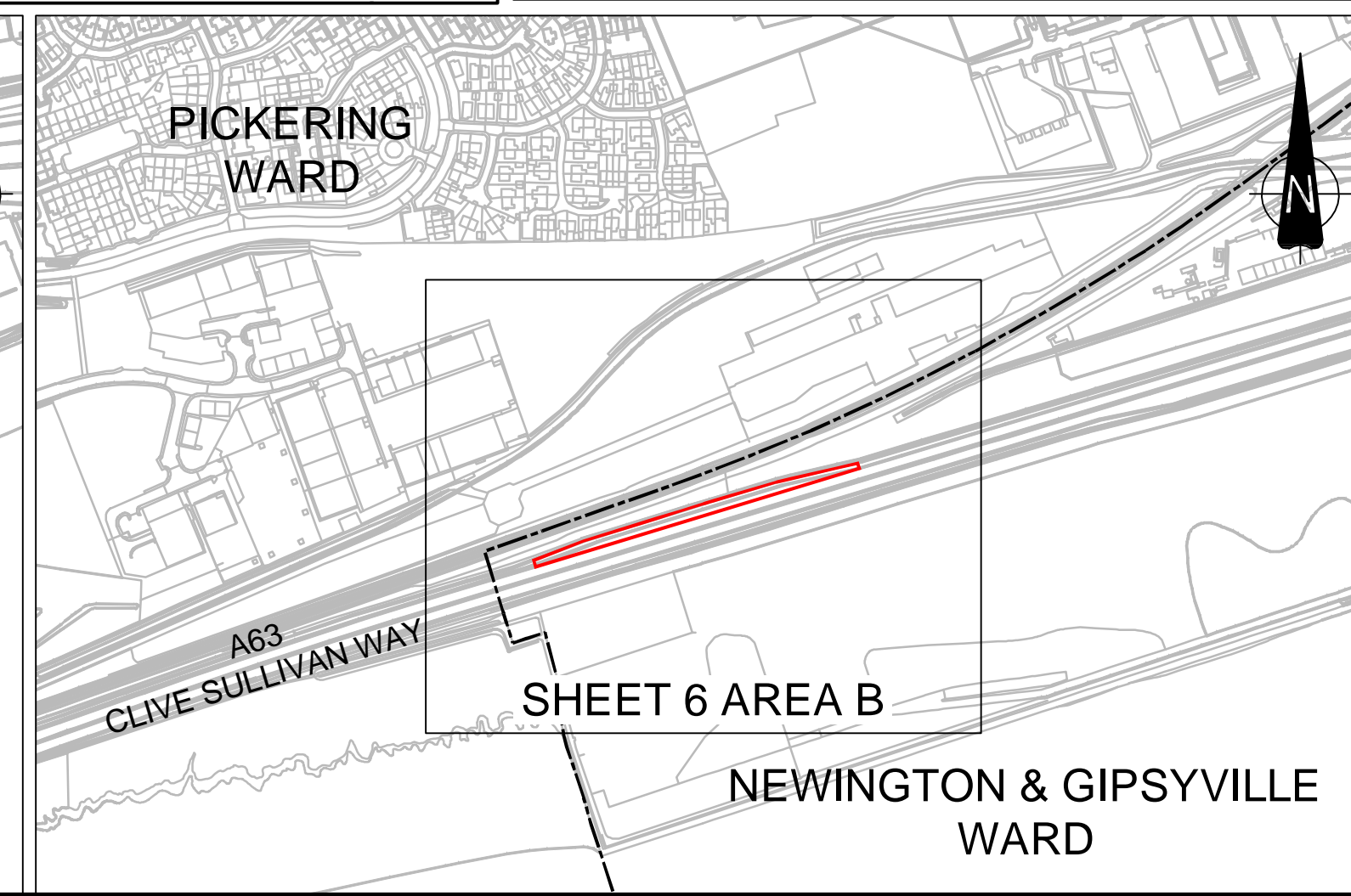
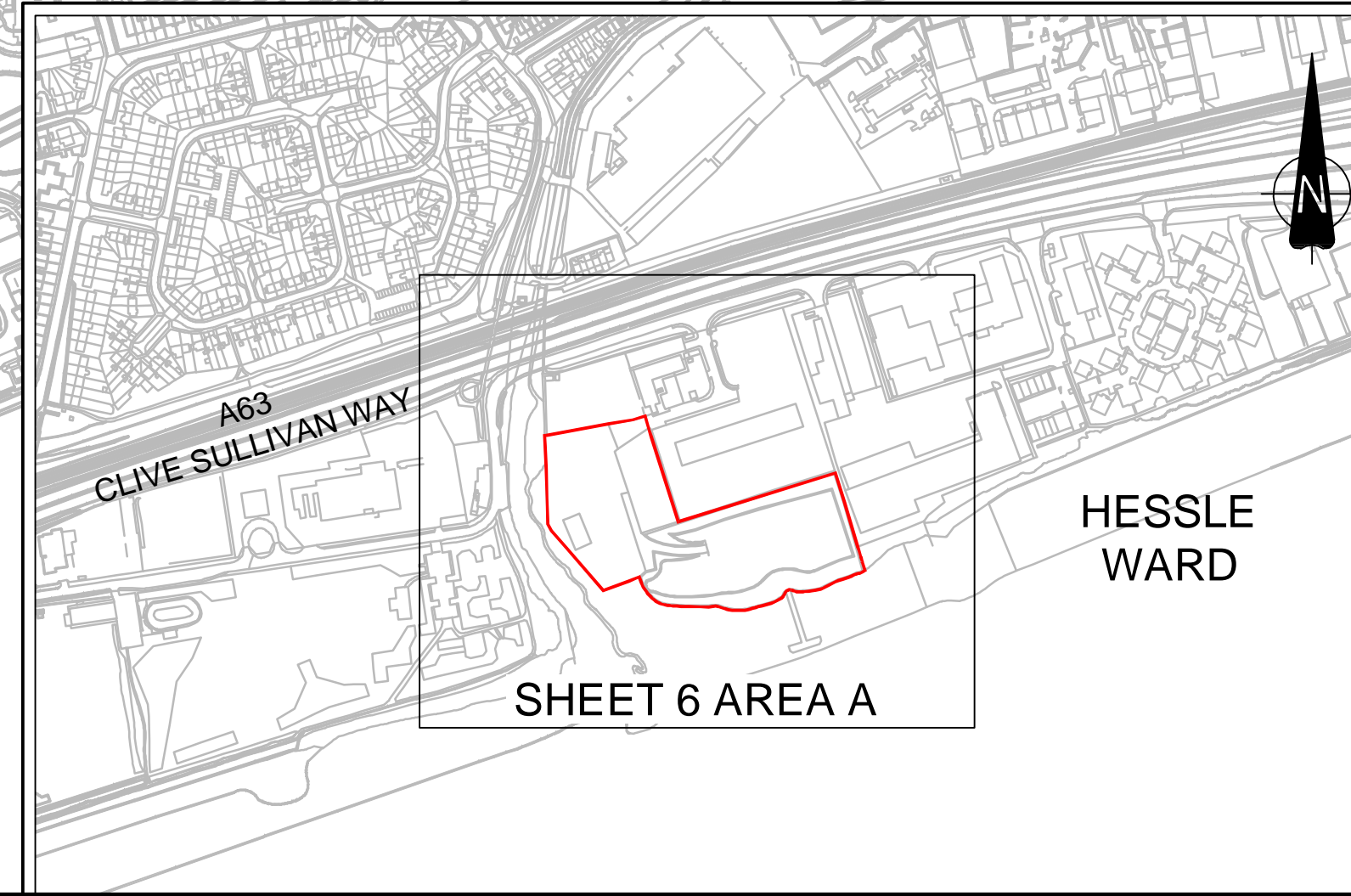
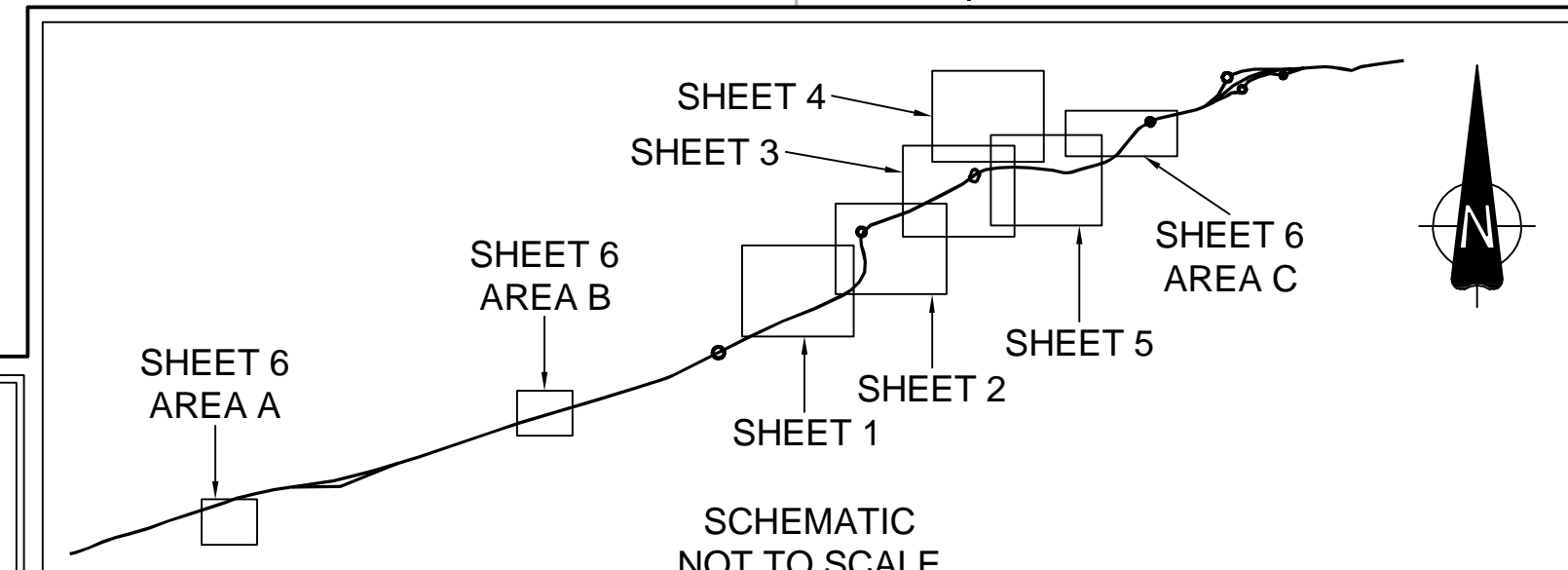
Project Title **A63 (CASTLE STREET IMPROVEMENT, HULL)**

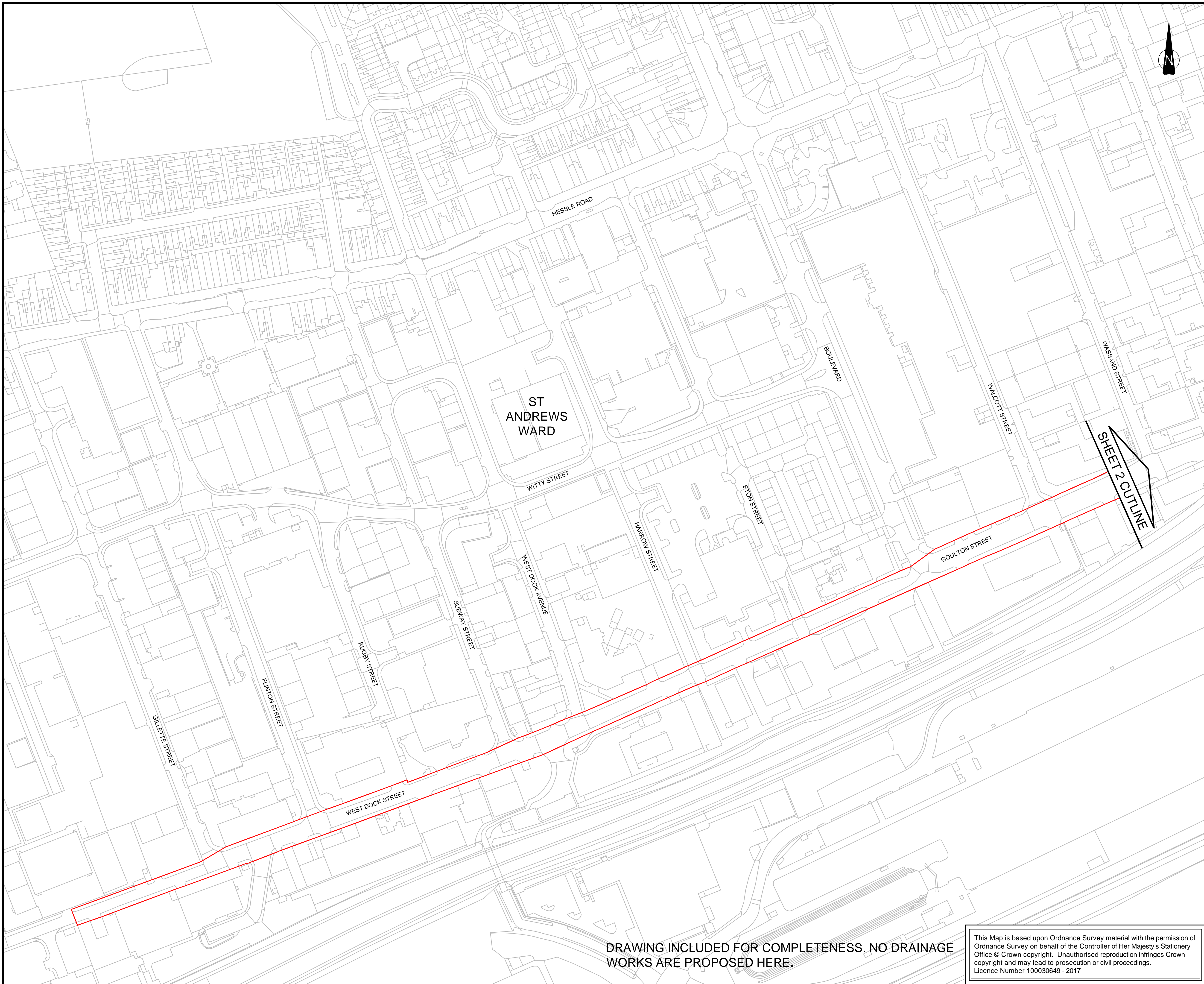
Drawing Title **DRAINAGE ENGINEERING DRAWINGS REGULATION 5(4) KEY PLAN**

Scale	Designed	Drawn	Checked	Approved
1:5000 @ A1	AB	OH	JDH	JFM
Original Size	Date	Date	Date	Date
A1	20/09/18	20/09/18	20/09/18	20/09/18

Drawing Number **TR010016/APP/2.7(A)** Revision **1**

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017





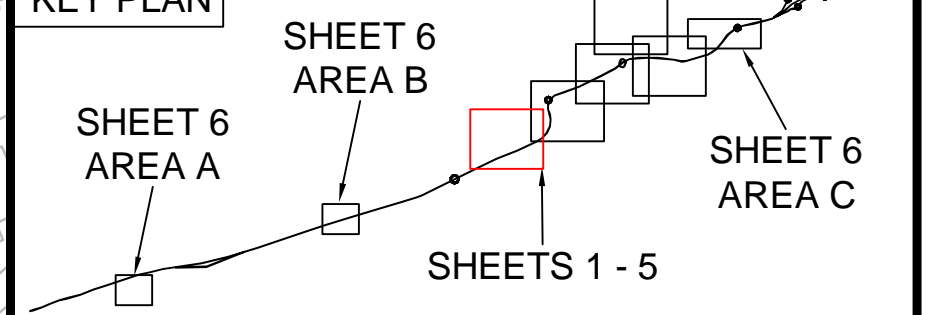
NOTES

1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
2. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

— ORDER LIMITS

KEY PLAN



1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



Drawing Status: **SHARED**

Project Title: **A63 (CASTLE STREET IMPROVEMENT, HULL)**

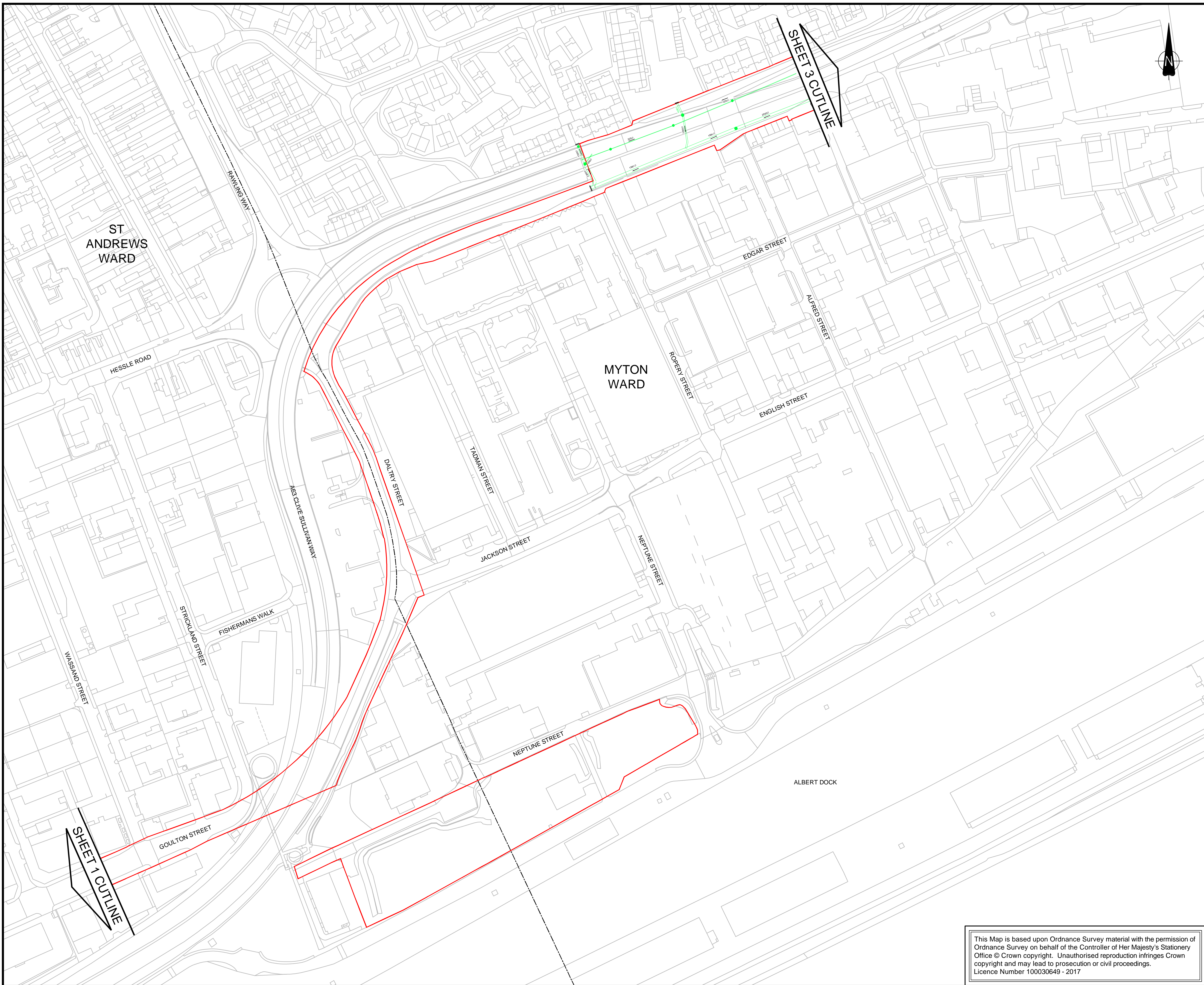
Drawing Title: **DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 1 OF 6**

Scale	Designed	Drawn	Checked	Approved
1:1250 @ A1	AB	OH	JDH	JFM
Original Size	Date	Date	Date	Date
A1	20/09/18	20/09/18	20/09/18	20/09/18

Drawing Number: **TR010016/APP/2.7(B)** Revision: **1**

DRAWING INCLUDED FOR COMPLETENESS. NO DRAINAGE WORKS ARE PROPOSED HERE.

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017



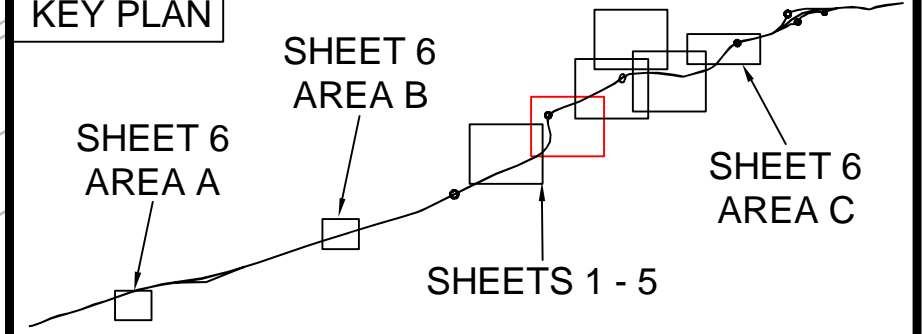
NOTES

1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
2. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- - - WARD BOUNDARIES
- EXISTING YORKSHIRE WATER PIPE TO BE RETAINED
- EXISTING CHAMBER TO BE RETAINED
- 1:000 (2250) — PIPE REFERENCE (DIAMETER OF PIPE)
- 10:50001 — NETWORK REFERENCE (MANHOLE REFERENCE)
- FLOW DIRECTION ARROW

KEY PLAN



1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



Client
SHARED

Project Title
A63 (CASTLE STREET IMPROVEMENT, HULL)

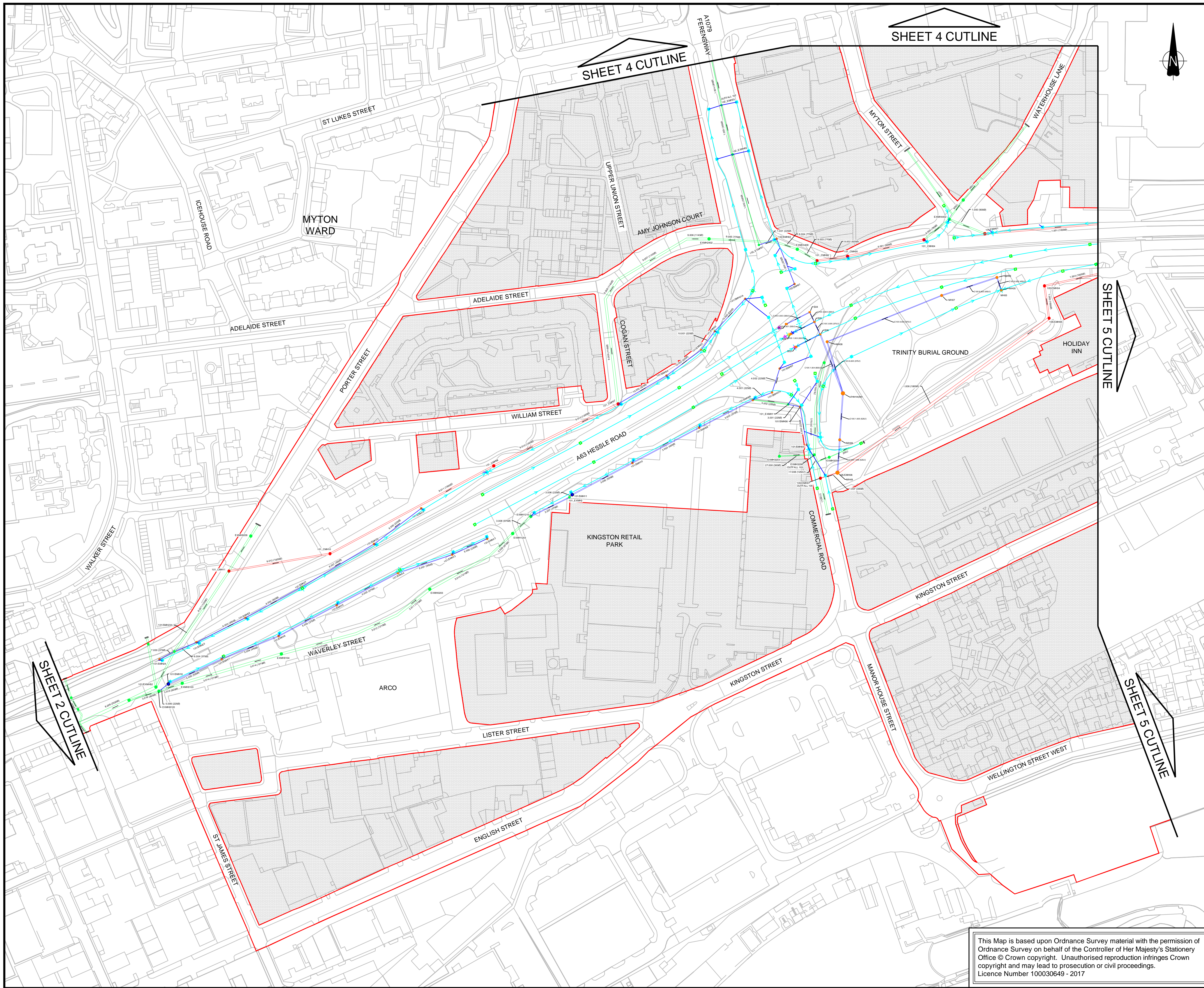
Drawing Title
DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 2 OF 6

Scale	Designed	Drawn	Checked	Approved
1:1250 @ A1	AB	OH	JDH	JFM
Original Size	Date	Date	Date	Date
A1	20/09/18	20/09/18	20/09/18	20/09/18

Drawing Number
TR010016/APP/2.7(C)

Revision
1

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017



NOTES

- ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- AREA NOT INCLUDED IN THE ORDER LIMITS
- PROPOSED CARRIER PIPE
- EXISTING YORKSHIRE WATER PIPE TO BE RETAINED
- PROPOSED YORKSHIRE WATER PIPE DIVERSION
- COMBINED KERB AND DRAINAGE (CKD)
- 150mm CKD OUTFALL PIPE
- PROPOSED CHAMBER
- EXISTING CHAMBER TO BE RETAINED
- PROPOSED YORKSHIRE WATER DIVERSION CHAMBER
- FLOW CONTROL CHAMBER
- PUMP / INTERCEPTOR
- CKD OUTFALL (DETAIL 2)
- CKD ACCESS UNIT (DETAIL 3)
- CKD FLOW ARROW
- CKD HIGH POINT
- CKD LOW POINT
- PIPE REFERENCE (DIAMETER OF PIPE)
- NETWORK REFERENCE (MANHOLE REFERENCE)
- FLOW DIRECTION ARROW

KEY PLAN

A key plan map showing the project area's location within a larger street network. It highlights SHEETS 1-5, SHEET 6 AREA A, SHEET 6 AREA B, and SHEET 6 AREA C. A scale bar below the map indicates 0m, 20m, 40m, 60m, 80m, and 100m, with a scale of 1:1250.

1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



Client: **highways england**

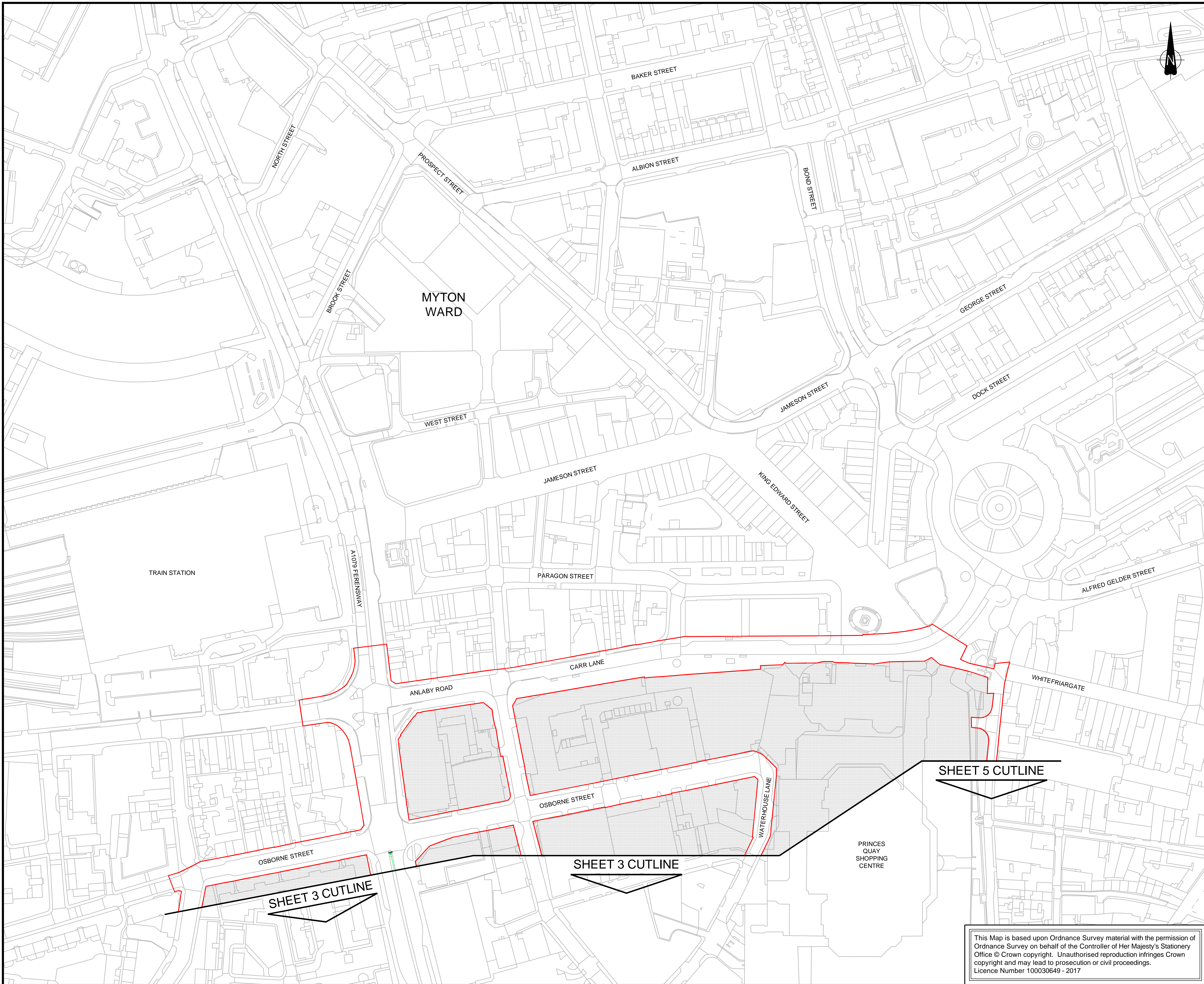
Drawing Status: **SHARED**

Project Title: **A63 (CASTLE STREET IMPROVEMENT, HULL)**

Drawing Title: **DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 3 OF 6**

Scale	1:1250 @ A1	Designed	AB	Drawn	OH	Checked	JDH	Approved	JFM	
Original Size	A1	Date	20/09/18	Date	20/09/18	Date	20/09/18	Date	20/09/18	
Drawing Number	TR010016/APP/2.7(D)								Revision	1

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017



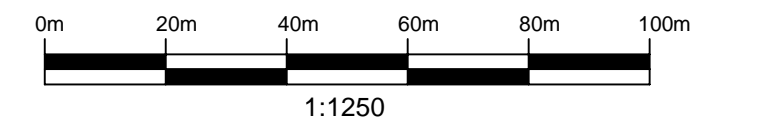
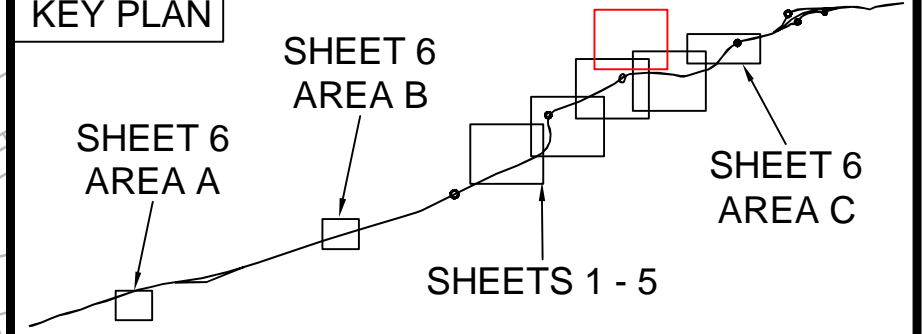
NOTES

1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
2. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- AREA NOT INCLUDED IN THE ORDER LIMITS
- EXISTING YORKSHIRE WATER PIPE TO BE RETAINED
- EXISTING CHAMBER TO BE RETAINED

KEY PLAN



Rev.	Date	Amendment Details	Drawn	Chk'd	App'd
1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



Drawing Status: **SHARED**

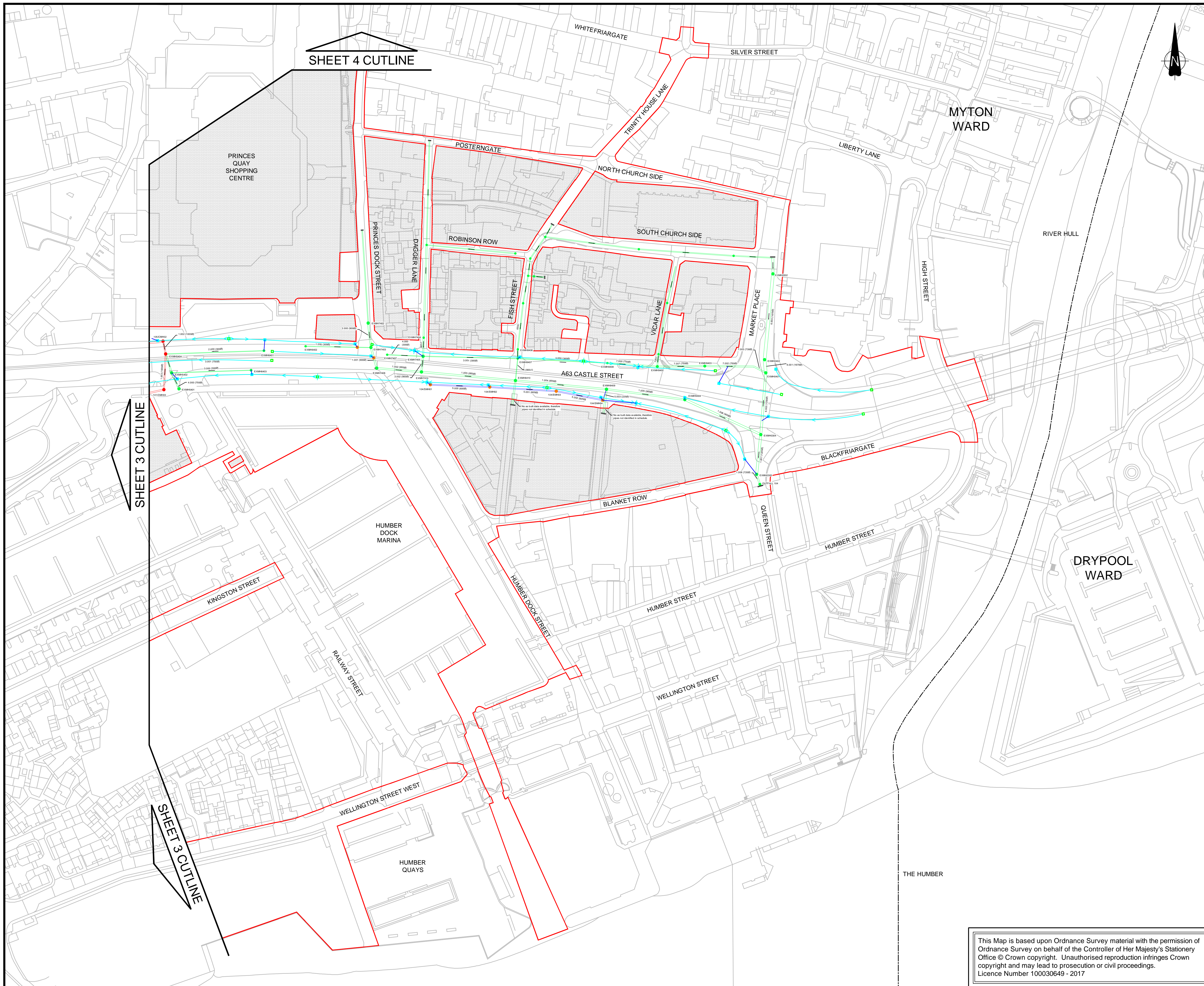
Project Title: **A63 (CASTLE STREET IMPROVEMENT, HULL)**

Drawing Title: **DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 4 OF 6**

Scale	Designed	Drawn	Checked	Approved
1:1250 @ A1	AB	OH	JDH	JFM
Original Size	Date	Date	Date	Date
A1	20/09/18	20/09/18	20/09/18	20/09/18

Drawing Number: **TR010016/APP/2.7(E)** Revision: **1**

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017



NOTES

- ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- WARD BOUNDARIES
- AREA NOT INCLUDED IN THE ORDER LIMITS
- PROPOSED CARRIER PIPE
- EXISTING YORKSHIRE WATER PIPE TO BE RETAINED
- PROPOSED YORKSHIRE WATER PIPE DIVERSION
- COMBINED KERB AND DRAINAGE (CKD)
- 150mm CKD OUTFALL PIPE
- PROPOSED CHAMBER
- EXISTING CHAMBER TO BE RETAINED
- PROPOSED YORKSHIRE WATER DIVERSION CHAMBER
- CKD OUTFALL (DETAIL 2)
- CKD ACCESS UNIT (DETAIL 3)
- CKD FLOW ARROW
- CKD HIGH POINT
- CKD LOW POINT
- PIPE REFERENCE (DIAMETER OF PIPE)
- NETWORK REFERENCE (MANHOLE REFERENCE)
- FLOW DIRECTION ARROW

KEY PLAN

0m 20m 40m 60m 80m 100m
1:1250

1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



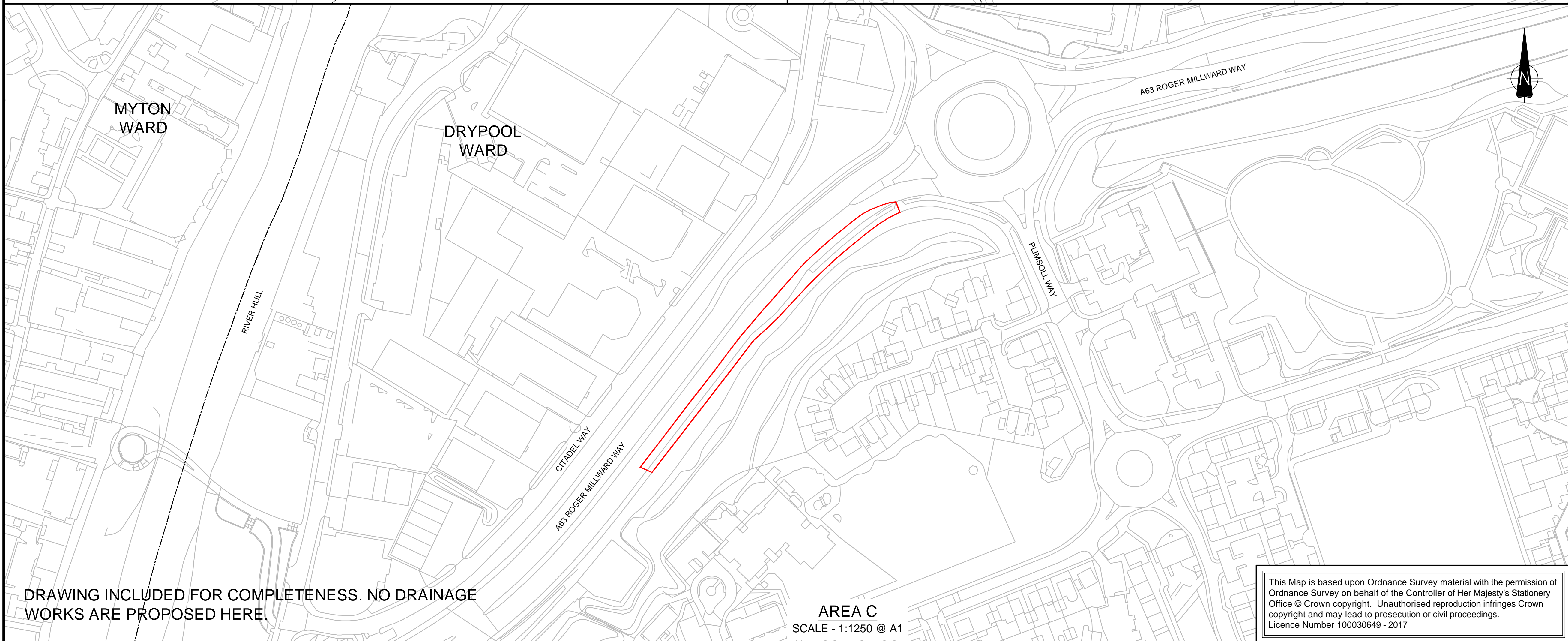
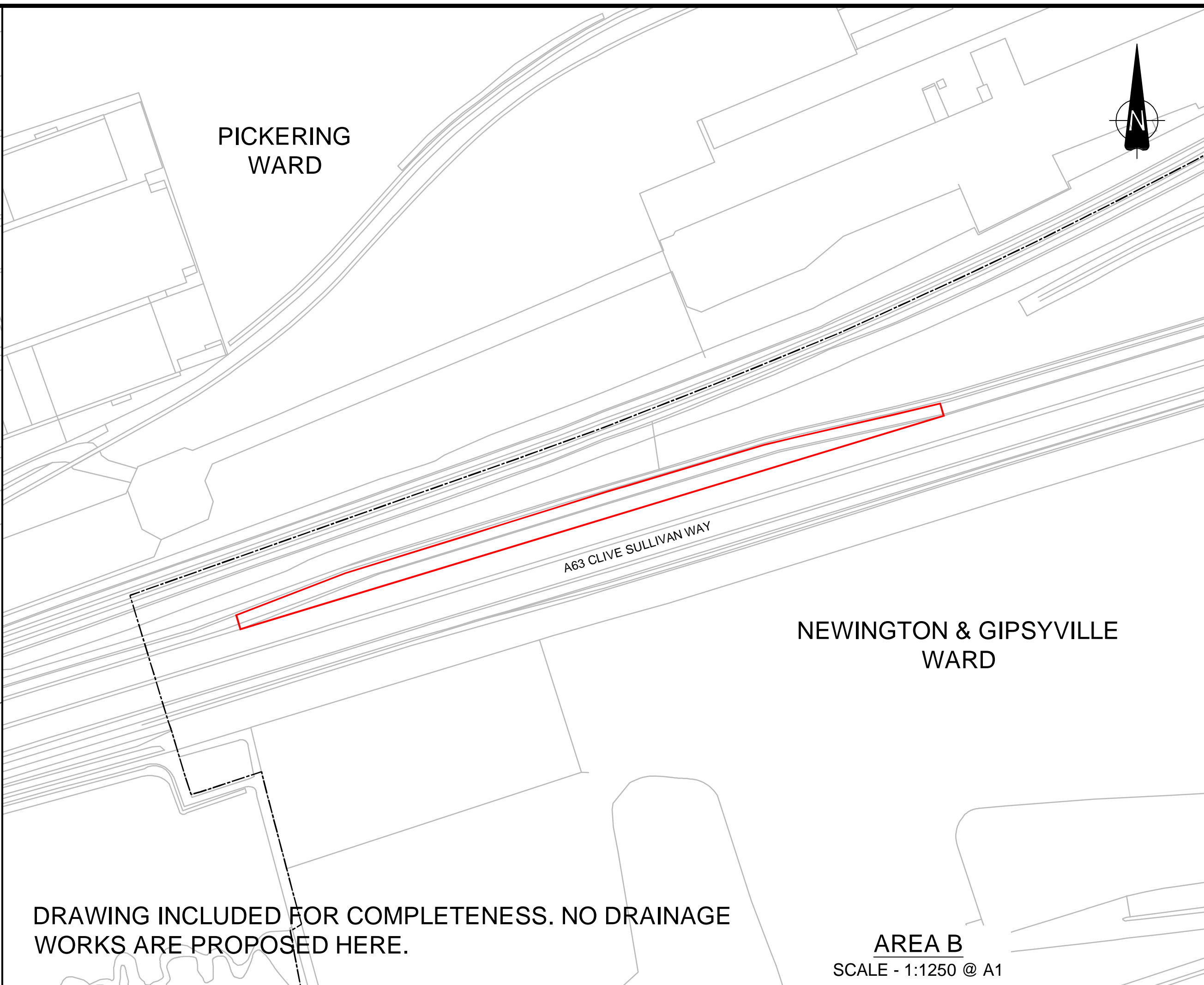
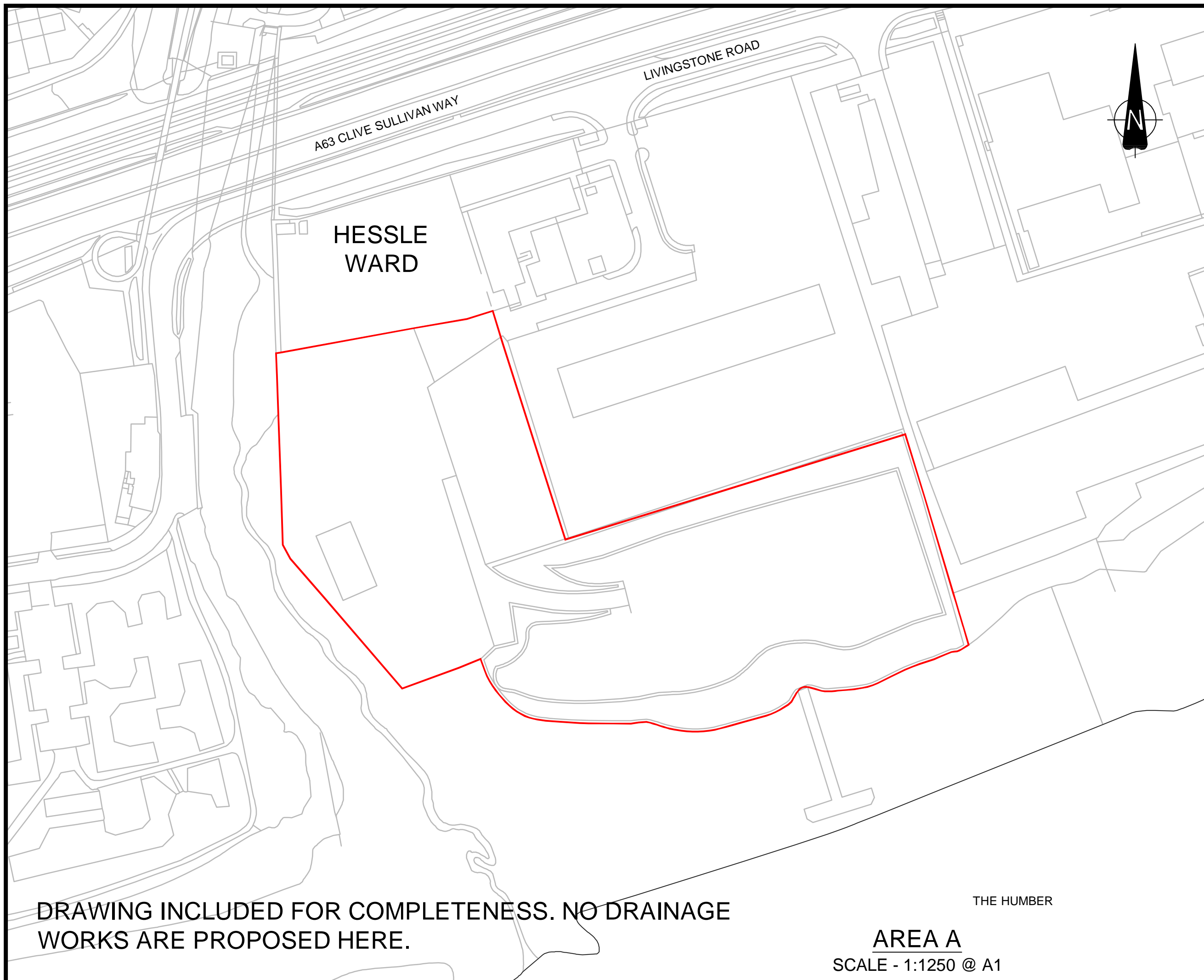
Drawing Status: **SHARED**

Project Title: **A63 (CASTLE STREET IMPROVEMENT, HULL)**

Drawing Title: **DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 5 OF 6**

Scale	Designed	Drawn	Checked	Approved
1:1250 @ A1	AB	OH	JDH	JFM
Original Size	Date	Date	Date	Date
A1	20/09/18	20/09/18	20/09/18	20/09/18
Drawing Number	Revision			
TR010016/APP/2.7(F)	1			

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017

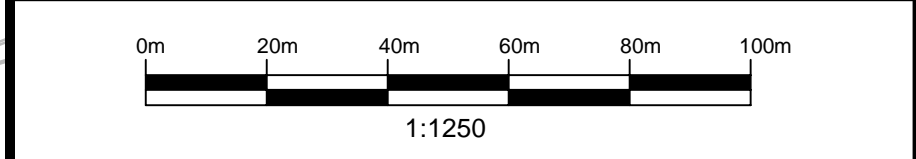
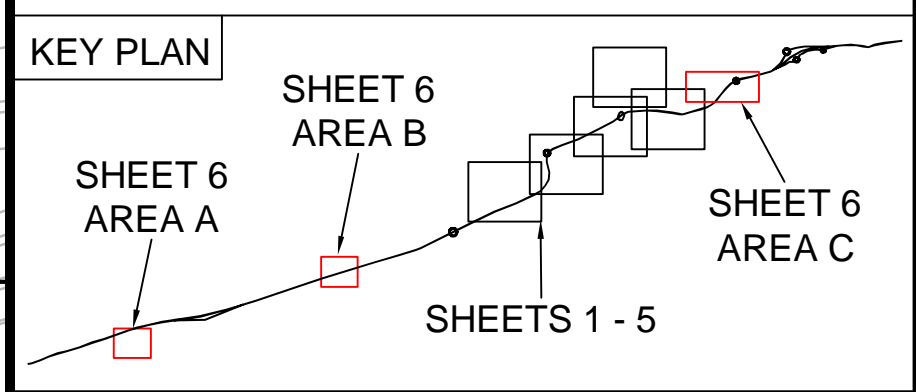


NOTES

- ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER

KEY

- ORDER LIMITS
- WARD BOUNDARIES
- AREA NOT INCLUDED IN THE ORDER LIMITS



1	09/05/19	AMENDMENTS FOR THE REMOVAL OF COMPOUND OPTION B AND THE YW RISING MAIN	OH	JDH	CS
0	20/09/18	APPLICATION ISSUE	OH	JDH	JFM
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald/Sweco JV was commissioned. Mott MacDonald/Sweco JV accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify Mott MacDonald/Sweco JV for all loss or damage arising therefrom.

Mott MacDonald Sweco



Drawing Status: **SHARED**

Project Title: **A63 (CASTLE STREET IMPROVEMENT, HULL)**

Drawing Title: **DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 6 OF 6**

Scale	AS SHOWN	Designed	AB	Drawn	OH	Checked	JDH	Approved	JFM	
Original Size	A1	Date	20/09/18	Date	20/09/18	Date	20/09/18	Date	20/09/18	
Drawing Number	TR010016/APP/2.7(G)								Revision	1

This Map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Licence Number 100030649 - 2017