

Smart Motorways Programme

Jacob Atkins JV

M56 Junction 6 to 8

Environmental Assessment Report

Appendix A

August 2018

Notice

This document and its contents have been prepared and are intended solely for Highways England's information and use in relation to the Smart Motorways Programme.

Appendix A – DF3 drawings

KEY:

- HIGHWAY BOUNDARY
- ROAD ALIGNMENT CHANGE
- PROPOSED EMERGENCY REFUGEE AREA
- CHALLENGE GANTRY
- SUPER CANTILEVER GANTRY
- SUPERIMPORTAL GANTRY
- TOP GANTRY
- BLUE + LED TRIP
- GREEN + PROPOSED
- RED + PROPOSED REFUGEE GANTRY (SEE NOTE 4)
- MESSAGE SIGN TYPE 2 (MS2)
- MESSAGE SIGN TYPE 3 (MS3)
- MESSAGE SIGN TYPE 4 (MS4)
- TOP MARK
- ADVANCED MOTORWAY INDICATOR (AMI)
- ADVANCE DIRECTION SIGN (ADS)
- PROPOSED 16m HIGH CCTV MAST
- PROPOSED CCTV MOUNTED ON STRUCTURE
- EXISTING CCTV MAST (RETAINED)
- PROPOSED PAVEMENT SENSOR AND LAKE COVERAGE
- PROPOSED REMOTELY OPERATED TEMPORARY TRAFFIC MANAGEMENT SIGN
- PROPOSED ROAD LIGHTING COLUMN
- PROPOSED TWIN LUMINAIRE ROAD LIGHTING COLUMN
- EXISTING ROAD LIGHTING COLUMN WITH SINGLE POST TOP MOUNTED LUMINAIRE TO BE REPLACED WITH NEW LED LUMINAIRE.
- EXISTING ROAD LIGHTING COLUMN WITH TWIN POST TOP MOUNTED LUMINAIRE TO BE REPLACED WITH NEW LED LUMINAIRE.

- ENTRY AIP SIGNALS
- PROPOSED REFUGEE PILLAR
- EMERGENCY CROSSING POINT
- ROAD TAPER POINT
- EXTERNAL ASPECT VERIFICATION CAMERA
- PROPOSED TECHNOLOGY SITE
- PROPOSED MENS LOOP
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- MARKER POST

CURRENT PROPOSED OPT NETWORK ACCESS TO BE ADVISED AND CONFIRMED WITH STAKEHOLDERS

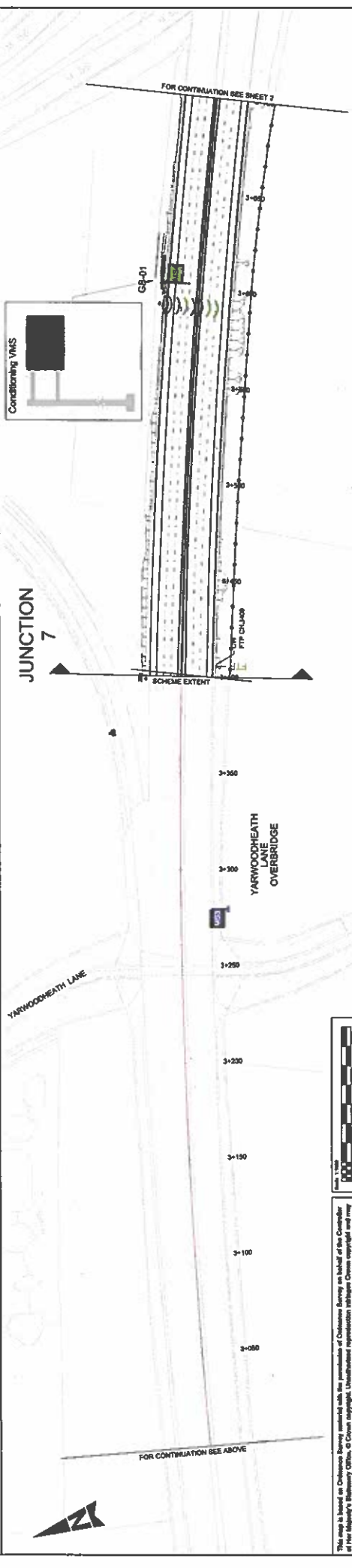
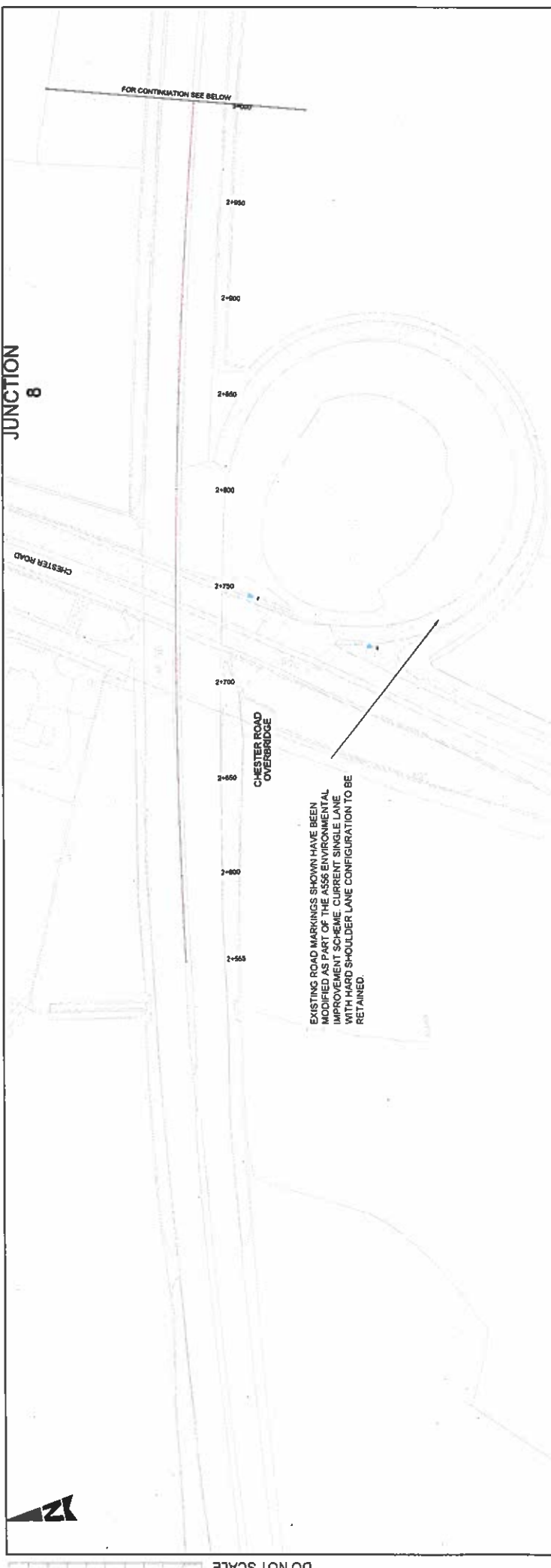
NOTES:

1. THESE GEOMETRIC WORK DRAWINGS PROVIDE A BROAD OVERVIEW. FOR FURTHER INFORMATION REFER TO THE RELEVANT DRAWING SERIES.
2. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
3. THE HIGHWAY BOUNDARY HAS BEEN DEVELOPED USING LINEAR AND TOPO INFORMATION USING FENCING LAYERS AND THEN CLOSING THE BOUNDARY AROUND THE SCHEME.
4. GANTRIES SHOWN AS 'PROPOSED REPLACEMENT GANTRY' ARE TO HAVE THE EXISTING GANTRIES REMOVED AND REPLACED WITH NEW GANTRIES IN THEIR CURRENT POSITION. A VALUE OPPORTUNITY EXISTS TO REVIEW THESE GANTRIES BUT IS SUBJECT TO FURTHER STRUCTURAL ASSESSMENT TO BE UNDERTAKEN THROUGHOUT O&A.

DO NOT SCALE

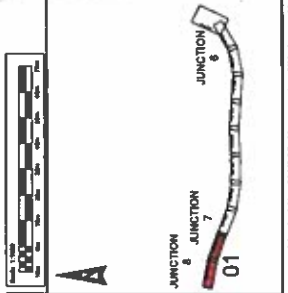
	<p>Project No: M56 J6-3</p> <p>Client: SMART MOTORWAY</p>	<p>Drawing No: S2</p> <p>Revision: GENERAL ARRANGEMENT NOTES & KEY</p>	<p>JACOBS ATKINS</p> <p>Working on behalf of</p> <p>highways england</p>
<p>Author: JA Date: 16/02/18</p> <p>Checked: JA Date: 16/02/18</p> <p>Drawn: JA Date: 16/02/18</p> <p>Project: M56 J6-3 - J6-4 - J6-5 - J6-6 - J6-7 - J6-8 - J6-9 - J6-10 - J6-11 - J6-12 - J6-13 - J6-14 - J6-15 - J6-16 - J6-17 - J6-18 - J6-19 - J6-20 - J6-21 - J6-22 - J6-23 - J6-24 - J6-25 - J6-26 - J6-27 - J6-28 - J6-29 - J6-30 - J6-31 - J6-32 - J6-33 - J6-34 - J6-35 - J6-36 - J6-37 - J6-38 - J6-39 - J6-40 - J6-41 - J6-42 - J6-43 - J6-44 - J6-45 - J6-46 - J6-47 - J6-48 - J6-49 - J6-50 - J6-51 - J6-52 - J6-53 - J6-54 - J6-55 - J6-56 - J6-57 - J6-58 - J6-59 - J6-60 - J6-61 - J6-62 - J6-63 - J6-64 - J6-65 - J6-66 - J6-67 - J6-68 - J6-69 - J6-70 - J6-71 - J6-72 - J6-73 - J6-74 - J6-75 - J6-76 - J6-77 - J6-78 - J6-79 - J6-80 - J6-81 - J6-82 - J6-83 - J6-84 - J6-85 - J6-86 - J6-87 - J6-88 - J6-89 - J6-90 - J6-91 - J6-92 - J6-93 - J6-94 - J6-95 - J6-96 - J6-97 - J6-98 - J6-99 - J6-100</p>		<p>Project: M56 J6-3 - J6-4 - J6-5 - J6-6 - J6-7 - J6-8 - J6-9 - J6-10 - J6-11 - J6-12 - J6-13 - J6-14 - J6-15 - J6-16 - J6-17 - J6-18 - J6-19 - J6-20 - J6-21 - J6-22 - J6-23 - J6-24 - J6-25 - J6-26 - J6-27 - J6-28 - J6-29 - J6-30 - J6-31 - J6-32 - J6-33 - J6-34 - J6-35 - J6-36 - J6-37 - J6-38 - J6-39 - J6-40 - J6-41 - J6-42 - J6-43 - J6-44 - J6-45 - J6-46 - J6-47 - J6-48 - J6-49 - J6-50 - J6-51 - J6-52 - J6-53 - J6-54 - J6-55 - J6-56 - J6-57 - J6-58 - J6-59 - J6-60 - J6-61 - J6-62 - J6-63 - J6-64 - J6-65 - J6-66 - J6-67 - J6-68 - J6-69 - J6-70 - J6-71 - J6-72 - J6-73 - J6-74 - J6-75 - J6-76 - J6-77 - J6-78 - J6-79 - J6-80 - J6-81 - J6-82 - J6-83 - J6-84 - J6-85 - J6-86 - J6-87 - J6-88 - J6-89 - J6-90 - J6-91 - J6-92 - J6-93 - J6-94 - J6-95 - J6-96 - J6-97 - J6-98 - J6-99 - J6-100</p>	

© Copyright 2018 Jacobs U.K. Limited / Atkins Limited. The acceptance and information contained in this document is the property of Jacobs Atkins U.K. Limited. Use or copying of this document in whole or in part without the written permission of Jacobs Atkins U.K. Limited is prohibited. Jacobs Atkins U.K. Limited accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, the drawing by any third party.



This map is based on Ordnance Survey data with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Registered in the Intellectual Property Office under registration number 117018528, 2017.

- FOR KEY AND NOTES SEE DRAWING HE5406-JA-VH-000_A556-TOR-CH-1000.
- FOR SITE CLEARANCE DRAWINGS SEE HE5406-JA-VH-000_A556-TOR-CH-1000 TO 1001.
- FOR FENCING AND ROAD RESTRAINT SYSTEMS DRAWINGS SEE HE5406-JA-VH-000_A556-TOR-CH-1000 TO 1008.
- FOR DRAINAGE DRAWINGS SEE HE5406-JA-VH-000_A556-TOR-CH-1000 TO 1009.



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazardous materials associated with the type of work detailed on this drawing, the following materials are used in the construction of the proposed scheme:

It is considered that all work on this drawing will be carried out by a competent contractor.

Consultants:

Role	Name	Company	Date
Author			
Checker			
Drawn			
Reviewed			
Approved			

FOR INFORMATION

JACOBS ATKINS

Working on behalf of

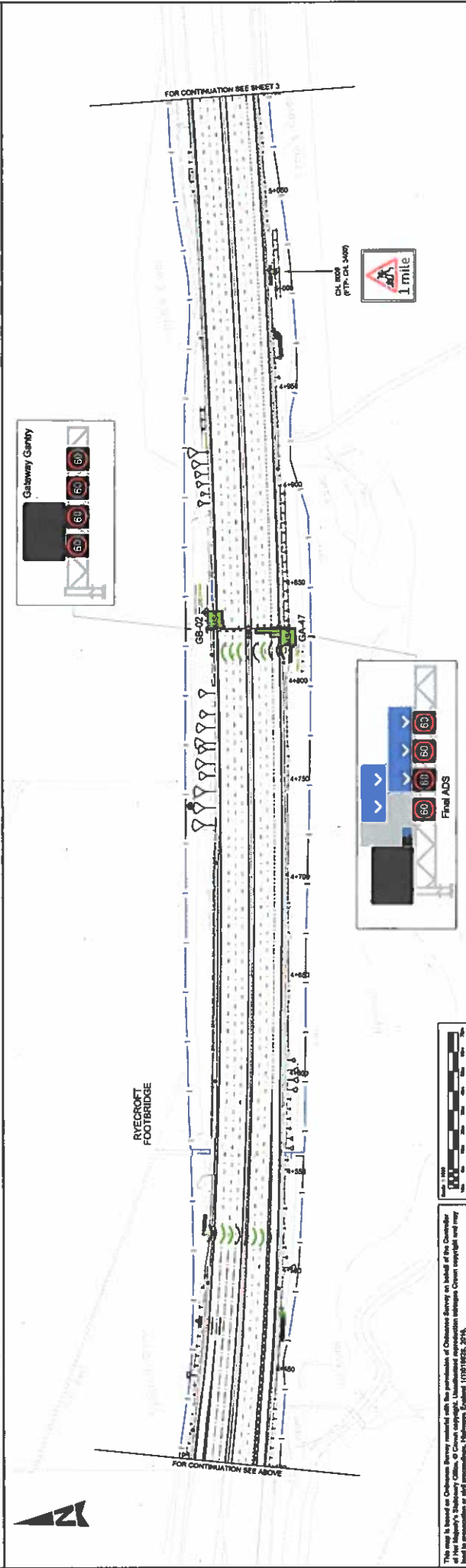
highways england

Project No: M56 J6-3
 Scheme Name: SMART MOTORWAY
 General Arrangement
 CH. 2555.000 TO CH. 3700.000
 SHEET 1 OF 6

Scale	1:1000	1:500	1:200	1:100
Sheet No.	A1	A2	A3	A4
Sheet Title	GENERAL ARRANGEMENT	GENERAL ARRANGEMENT	GENERAL ARRANGEMENT	GENERAL ARRANGEMENT

HE5406-JA-VH-000_A556-TOR-CH-1000
 SG_MJL-TI-DR-CH-1001

© Copyright 2018 Jacobs U.K. Limited / Atkins Limited. This copyright and information contained in this document is the property of Jacobs U.K. Limited / Atkins Limited. Use or copying of this document in whole or in part without the written permission of Jacobs U.K. Limited / Atkins Limited is prohibited. This drawing has been prepared on behalf of, and for the exclusive use of, JAG's Client, and is subject to, and based on, the conditions of the contract between JAG and the Client. JAG accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.



FOR INFORMATION

Project No: M55 J6-5
 Client: SMART MOTORWAY
 General Arrangement
 CH. 3700.000 TO CH. 5100.000
 SHEET 2 OF 6

Working on behalf of
JACOBS ATKINS
 highways
 england

Rev	Issue	Date	By	Check	App'd
01	Issue for Information	18/02/18	...	...	...
02	Issue for Information	18/02/18	...	...	...
03	Issue for Information	18/02/18	...	...	...
04	Issue for Information	18/02/18	...	...	...
05	Issue for Information	18/02/18	...	...	...
06	Issue for Information	18/02/18	...	...	...
07	Issue for Information	18/02/18	...	...	...
08	Issue for Information	18/02/18	...	...	...
09	Issue for Information	18/02/18	...	...	...
10	Issue for Information	18/02/18	...	...	...
11	Issue for Information	18/02/18	...	...	...
12	Issue for Information	18/02/18	...	...	...
13	Issue for Information	18/02/18	...	...	...
14	Issue for Information	18/02/18	...	...	...
15	Issue for Information	18/02/18	...	...	...
16	Issue for Information	18/02/18	...	...	...
17	Issue for Information	18/02/18	...	...	...
18	Issue for Information	18/02/18	...	...	...
19	Issue for Information	18/02/18	...	...	...
20	Issue for Information	18/02/18	...	...	...

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the information normally contained within the types of work detailed on this drawing, the following information should be considered and followed as appropriate:

It is assumed that all works on this drawing will be carried out by a competent contractor working, where appropriate, to an appropriate method statement.

Construction

Materials / Quantity

Use

Location

Discontinuing / Duration

Notes

Rev

Date

Issue

By

Check

App'd

1. FOR RET AND NOTES SEE DRAWING HE548845-JAV-J-HGN-1002-1000

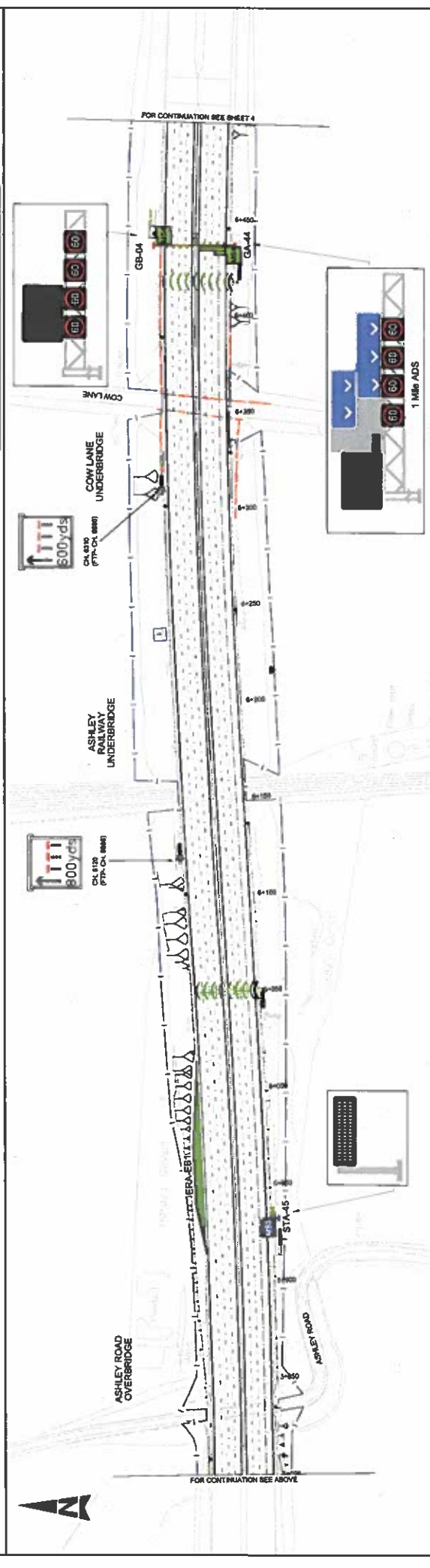
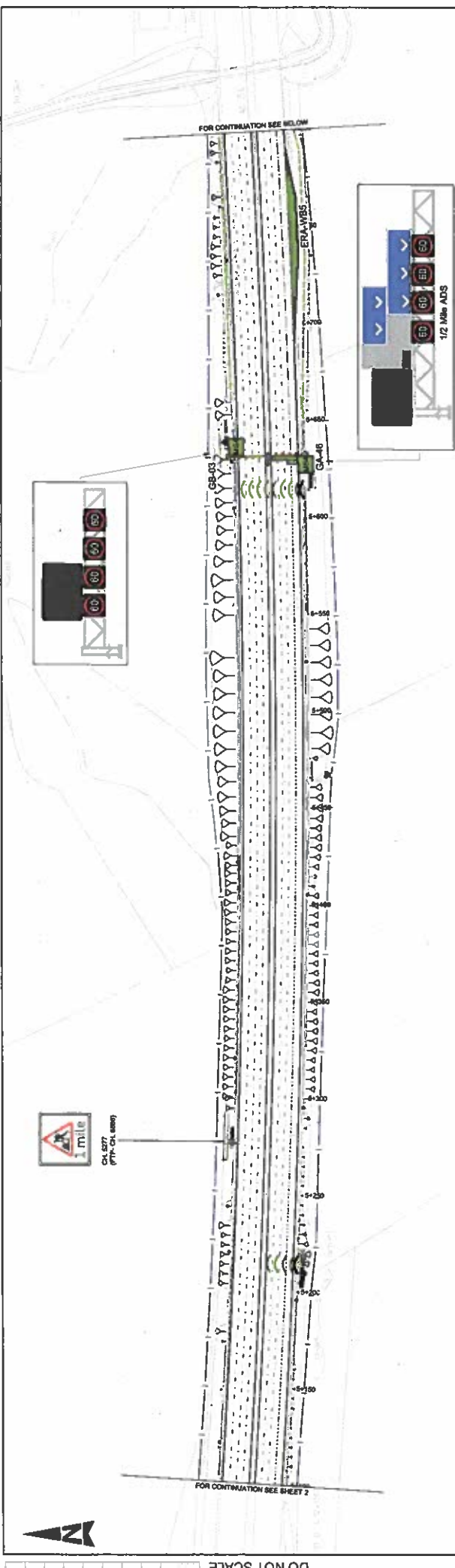
2. FOR SITE CLEARANCE DRAWINGS SEE HE548845-JAV-J-HGN-1000 TO 1008

3. FOR RETAINING WALLS SEE HE548845-JAV-J-HGN-1000 TO 1008

4. FOR DRAINAGE DRAWINGS SEE HE548845-JAV-J-HGN-1000 TO 1008

DO NOT SCALE

Copyright © 2018 Jacobs U.K. Limited. This document and its contents are the property of Jacobs U.K. Limited. It is not to be used, copied, reproduced, disseminated, or otherwise made available in any form or by any means, without the prior written permission of Jacobs U.K. Limited. The information contained herein is confidential and intended for the use of the client only. It is not to be used, copied, reproduced, disseminated, or otherwise made available in any form or by any means, without the prior written permission of Jacobs U.K. Limited. The information contained herein is confidential and intended for the use of the client only. It is not to be used, copied, reproduced, disseminated, or otherwise made available in any form or by any means, without the prior written permission of Jacobs U.K. Limited.



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 In addition to the responsibilities normally associated with the types of work detailed on this drawing the user of this drawing shall be made aware of the following responsibilities:
 1. TO ensure that the drawing is used for the purpose for which it was prepared.
 2. TO ensure that the drawing is used in conjunction with any other drawings, specifications, bills of materials, etc.
 3. TO ensure that the drawing is used in accordance with the provisions of the contract between JAGY and the Client. JAGY accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, the drawing by any third party.

FOR INFORMATION

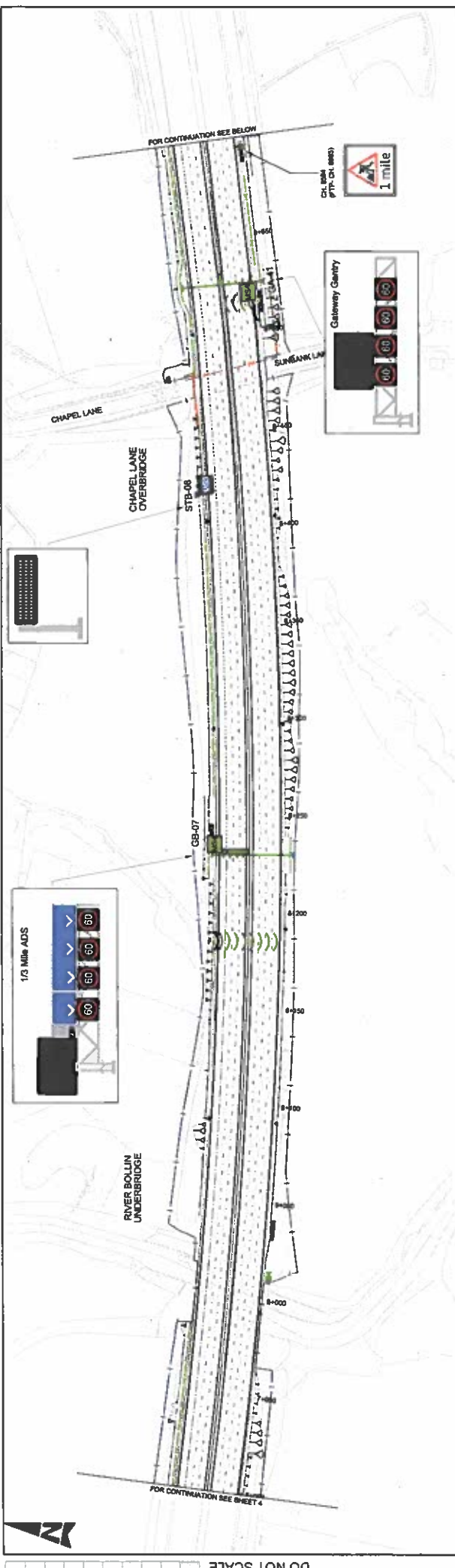
Project No: MS6 JK-8
 Client No: SMART MOTORWAY
 GENERAL ARRANGEMENT
 CH. 5100.000 TO CH. 6500.000
 SHEET 3 OF 8

Working on behalf of
JACOBS ATKINS
highways england

Rev	Date	Description
01	11/06/18	Issue for tender
02	11/06/18	Issue for contract
03	11/06/18	Issue for construction
04	11/06/18	Issue for construction
05	11/06/18	Issue for construction
06	11/06/18	Issue for construction
07	11/06/18	Issue for construction
08	11/06/18	Issue for construction
09	11/06/18	Issue for construction
10	11/06/18	Issue for construction
11	11/06/18	Issue for construction
12	11/06/18	Issue for construction
13	11/06/18	Issue for construction
14	11/06/18	Issue for construction
15	11/06/18	Issue for construction
16	11/06/18	Issue for construction
17	11/06/18	Issue for construction
18	11/06/18	Issue for construction
19	11/06/18	Issue for construction
20	11/06/18	Issue for construction
21	11/06/18	Issue for construction
22	11/06/18	Issue for construction
23	11/06/18	Issue for construction
24	11/06/18	Issue for construction
25	11/06/18	Issue for construction
26	11/06/18	Issue for construction
27	11/06/18	Issue for construction
28	11/06/18	Issue for construction
29	11/06/18	Issue for construction
30	11/06/18	Issue for construction
31	11/06/18	Issue for construction
32	11/06/18	Issue for construction
33	11/06/18	Issue for construction
34	11/06/18	Issue for construction
35	11/06/18	Issue for construction
36	11/06/18	Issue for construction
37	11/06/18	Issue for construction
38	11/06/18	Issue for construction
39	11/06/18	Issue for construction
40	11/06/18	Issue for construction
41	11/06/18	Issue for construction
42	11/06/18	Issue for construction
43	11/06/18	Issue for construction
44	11/06/18	Issue for construction
45	11/06/18	Issue for construction
46	11/06/18	Issue for construction
47	11/06/18	Issue for construction
48	11/06/18	Issue for construction
49	11/06/18	Issue for construction
50	11/06/18	Issue for construction

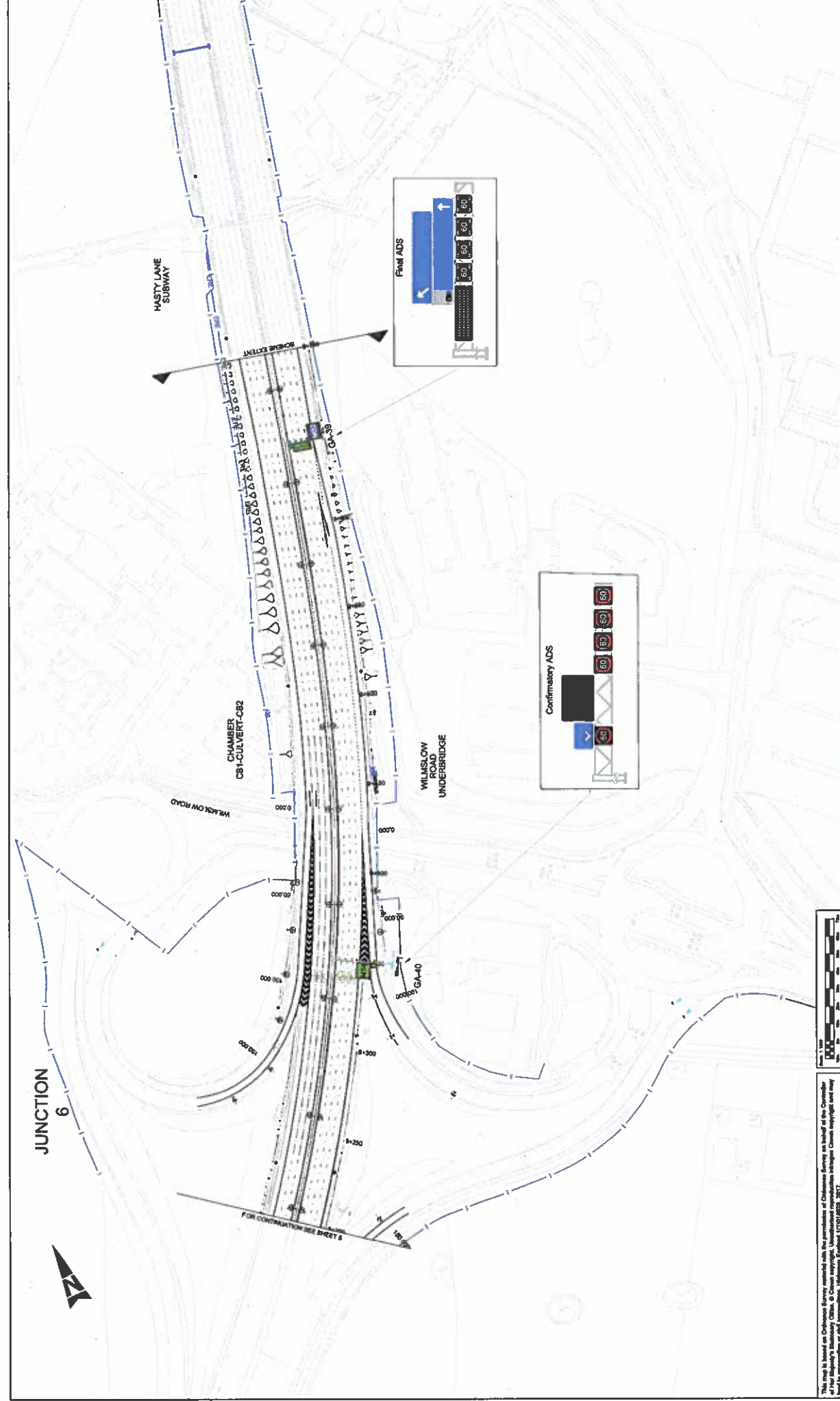
1. FOR QUANTITY AND NOTES SEE DRAWING HE2408S-JA-M-004-SG_JA-M-TUR-CH-1000.
 2. FOR SITE CLEARANCE DRAWINGS SEE HE2408S-JA-M-004-SG_JA-M-TUR-CH-1000 TO 1009.
 3. FOR FENCING AND ROAD RESTRAINT SYSTEMS DRAWINGS SEE HE2408S-JA-M-004-SG_JA-M-TUR-CH-1000 TO 1008.
 4. FOR DRAINAGE DRAWINGS SEE HE2408S-JA-M-004-SG_JA-M-TUR-CH-1000 TO 1009.

© Copyright 2018, Jacobs U.K. Limited / Atkins Limited. The contents and information contained in this document are the property of Jacobs U.K. Limited. Use or copying of this document in whole or in part without the written permission of JAGY constitutes an infringement of copyright. This drawing has been prepared on behalf of, and for the exclusive use of, JAGY's Client, and is subject to, and bound by, acceptance with, the provisions of the contract between JAGY and the Client. JAGY accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, the drawing by any third party.



<p>FOR INFORMATION</p> <p>JACOBS | ATKINS</p> <p>Working on behalf of</p> <p>highways england</p>		<p>Project No: MS6 JK-B</p> <p>Contract No: SMART MOTORWAY</p> <p>CH. 7900.000 TO CH. 8200.000</p> <p>SHEET 5 OF 6</p>
<p>Scale: 1:1000</p> <p>Contract No: A1</p> <p>Drawn: 16/02/19</p> <p>Checked: 16/02/19</p> <p>Author: HE5493AS - JAV - HGN</p> <p>Checker: SG_MULTI - DR - CH - 1005</p>	<p>Rev: 01</p> <p>Date: 16/02/19</p> <p>Description: 16/02/19</p> <p>By: [Signature]</p> <p>Checked: [Signature]</p> <p>Approved: [Signature]</p>	<p>Rev: 01</p> <p>Date: 16/02/19</p> <p>Description: 16/02/19</p> <p>By: [Signature]</p> <p>Checked: [Signature]</p> <p>Approved: [Signature]</p>
<p>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</p> <p>In addition to the usual safety information associated with the types of work detailed on this drawing the site of the work shall be notified with a competent contractor working, where appropriate, in an appropriate notified area.</p> <p>Contract Name: [Blank]</p> <p>Location: [Blank]</p> <p>Site: [Blank]</p> <p>Contractor: [Blank]</p> <p>Subcontractor: [Blank]</p> <p>Other: [Blank]</p>		
<p>FOR KEY AND NOTES SEE DRAWINGS HE5493AS-JAV-HGN-00_MULTURCH-1000</p> <p>FOR SITE CLEARANCE DRAWINGS SEE HE5493AS-JAV-HGN-00_MULTURCH-1000 TO 1009</p> <p>FOR FENCING AND ROAD RESTRAINT SYSTEMS DRAWINGS SEE HE5493AS-JAV-HGN-00_MULTURCH-1000 TO 1009</p> <p>FOR DRAINAGE DRAWINGS SEE HE5493AS-JAV-HGN-00_MULTURCH-1000 TO 1009</p>		
<p>© Copyright 2018 Jacobs U.K. Limited / Atkins Limited. This document and its contents are the property of Jacobs U.K. Limited / Atkins Limited. Use or copying of this document in whole or in part without the written permission of Jacobs U.K. Limited / Atkins Limited is prohibited. This drawing has been prepared on behalf of, and for the exclusive use of, the Client. JAV/ATKINS shall be held responsible for any errors or omissions herein, and shall be held responsible for any damage or loss resulting from the use of this drawing.</p>		

DO NOT SCALE



JUNCTION 6

FOR INFORMATION

JACOBS ATKINS

Working on behalf of **highways england**

Project File: MS6 JR-3
 SMART MOTORWAY
 GENERAL ARRANGEMENT
 CH. 9200.000 TO CH. 9800.000
 SHEET 6 OF 6

Scale: 1:1000
 Drawing No: A1
 Date: 16/02/18
 Project: HES49345 - JAV - HGN - SG_MULT - DR - CH - 1006
 Revision: P05

FOR INFORMATION

Number: 52

DATE

NO	DATE	BY	CHKD	APP'D
1	16/02/18	VA	VA	VA
2	16/02/18	VA	VA	VA
3	16/02/18	VA	VA	VA
4	16/02/18	VA	VA	VA
5	16/02/18	VA	VA	VA
6	16/02/18	VA	VA	VA
7	16/02/18	VA	VA	VA
8	16/02/18	VA	VA	VA
9	16/02/18	VA	VA	VA
10	16/02/18	VA	VA	VA

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the instructions normally associated with this type of work, detailed in the standard Bill of Materials on this drawing, the contractor shall be responsible for ensuring that all work on this drawing is carried out by a competent contractor working under appropriate, to an appropriate method statement.

Contractor:
 Name:
 Telephone / Fax:
 Email:
 Date:
 Signature:
 Name:
 Title:
 Date:
 Signature:
 Name:
 Title:
 Date:
 Signature:

Scale 1:1000

JUNCTION 6

JUNCTION 6
 JUNCTION 7
 JUNCTION 6

1. FOR KEY AND NOTES SEE DRAWING HES49345-JAV-HGN-SG_MULT-DR-CH-1006.
 2. FOR SITE CLEARANCE DRAWINGS SEE HES49345-JAV-HGN-SG_MULT-DR-CH-1006 TO 1008.
 3. FOR FENCING AND ROAD RESTRAINT SYSTEMS DRAWINGS SEE HES49345-JAV-HGN-SG_MULT-DR-CH-1009 TO 1016.
 4. FOR DRAINAGE DRAWINGS SEE HES49345-JAV-HGN-SG_MULT-DR-CH-1017 TO 1025.

This plan is based on Ordnance Survey data with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office, & Crown copyright. Unauthorised reproduction is prohibited. Crown copyright and may be reproduced in whole or in part for non-commercial purposes only. Ordnance Survey, Highways England (17/01/2018), 2017.

© Copyright 2018 Jacobs U.K. Limited / Atkins Limited. This document and information contained in this document is the property of Jacobs Atkins U.K. Limited. No part of this document is to be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Jacobs Atkins U.K. Limited. The drawings herein are prepared on behalf of, and for the exclusive use of, the client. The client shall be responsible for the accuracy of the information provided. The contractor shall be responsible for the accuracy of the information provided. The contractor shall be responsible for the accuracy of the information provided.