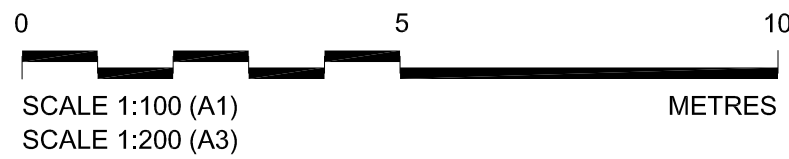


Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- LOCK OPENS OUT TO CHANNEL WIDTH OF 21000mm FOR OPEN ASPECT WATERWAY OR 9000mm FOR VERTICAL SIDED WATERWAY (AT BOTH ENDS OF LOCK).
- THIS DRAWING SHOWS A LOCK WITH A 3.5m CHANGE IN WATER LEVEL. SIMILAR DETAILS APPLY FOR OTHER LOCKS (SEE TABLE BELOW).
- ROUTE OF TOWPATH VARIES BETWEEN LOCKS IN ORDER TO ACCOMMODATE A 1 IN 16 SLOPE. A 9m DISTANCE BETWEEN LOCK AND EDGE OF ADDITIONAL MAINTENANCE STRIP WILL BE ADHERED TO.
- THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE.

Locks	
Chainage (m)	Dim C (mm)
500	3000
1470	2500
1500	2500
2500	3250



Rev	By	Chkd	Apprvd	Date	Description
0	CM	JS	JN	20/02/14	FOR INFORMATION

Client

**BEDFORD**  
BOROUGH COUNCIL

Bedford Borough Council  
Borough Hall  
Cauldwell Street  
Bedford  
MK42 9AP  
Tel: 01234 267422

**Halcrow Group Limited**  
Endeavour House, Forster Way, Cygnet Park, Hampton, Peterborough, Cambs PE7 8GX  
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halcrow.com

A CH2M HILL COMPANY

Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

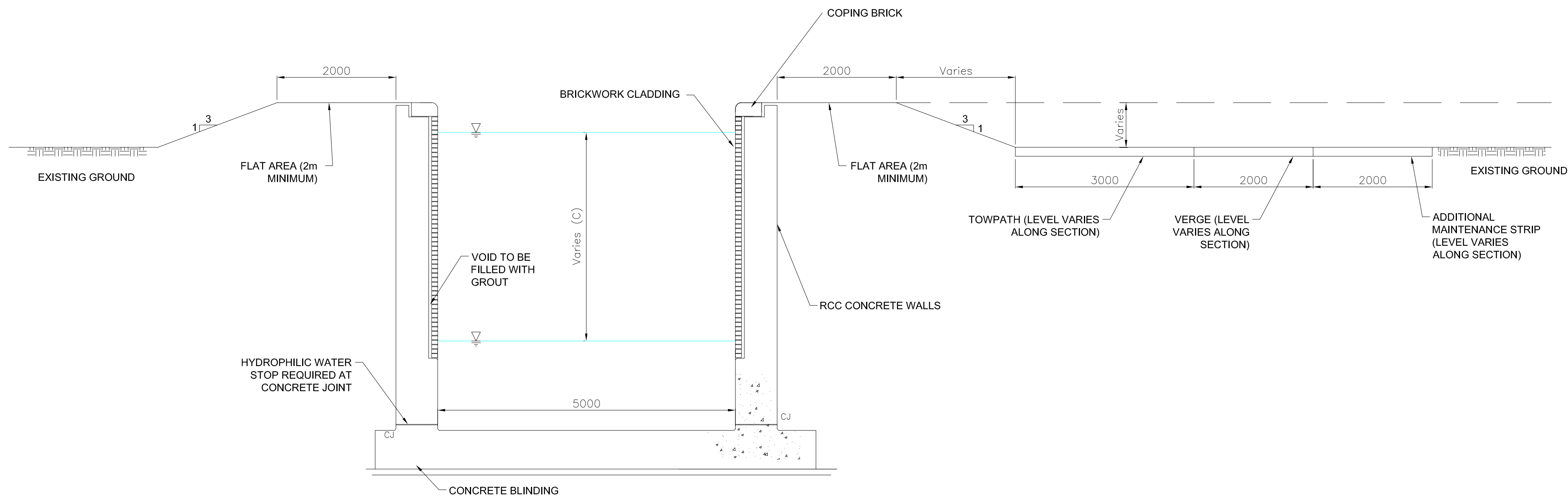
Drawing **TYPICAL LOCK STRUCTURE  
(SHEET 1 OF 2)**

Drawn by: CM	Date: 20/02/14
Checked by: JS	Date: 20/03/14
Approved by: JN	Date: 09/04/14
Drawing No.	Revision
476075-HG-00-00-DR-C-400	0

Drawing Scale: AS SHOWN at A1

OUTLINE DESIGN

DRAWING NAME & LOCATION: W:\PROJECTS\NEW CLIENTS\BEDFORD BEDFORD BOROUGH COUNCIL\476075-HG-00-00-DR-C-400.dwg  
DATE & TIME: 14/12/2014 4:53 PM  
USER NAME: Menden, Chris/UP

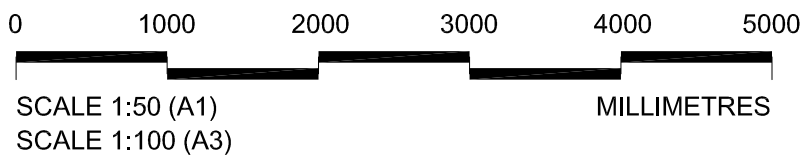


CROSS SECTION B-B (3.5m rise)  
SCALE 1:50

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- THIS DRAWING SHOWS A LOCK WITH A 3.5m CHANGE IN WATER LEVEL. SIMILAR DETAILS APPLY FOR OTHER LOCKS (SEE TABLE BELOW).
- THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE.

Locks	
Chainage (m)	Dim C (mm)
500	3000
1470	2500
1500	2500
2500	3250



0	CM	JS	JN	20/02/14	FOR INFORMATION
Rev	By	Chkd	Apprvd	Date	Description

Client



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Borough Hall  
Cauldwell Street  
Bedford  
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Tel: 01234 267422

**Halcrow Group Limited**  
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A CH2M HILL COMPANY



Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

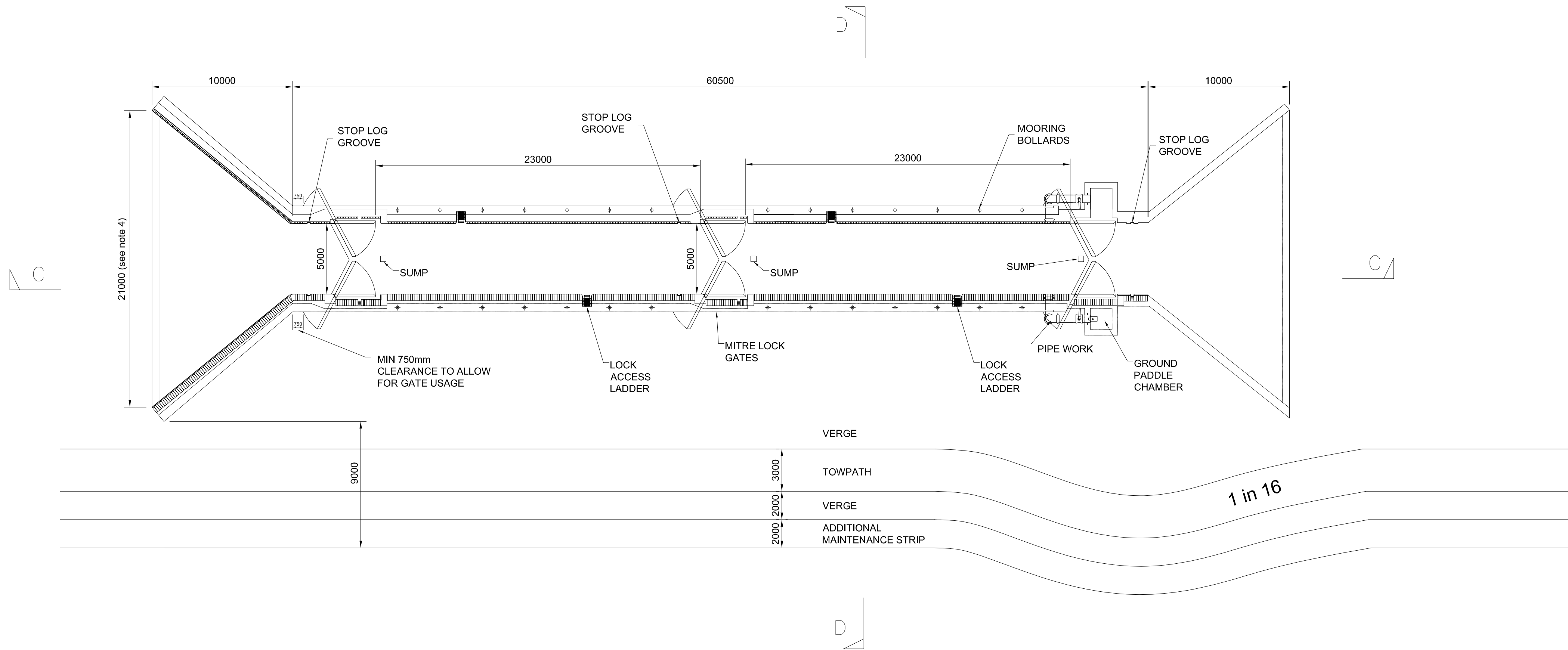
Drawing  
**TYPICAL LOCK STRUCTURE  
(SHEET 2 OF 2)**

Drawn by: CM	Date: 20/02/14
Checked by: JS	Date: 20/03/14
Approved by: JN	Date: 09/04/14
Drawing No.	Revision
476075-HG-00-00-DR-C-401	0

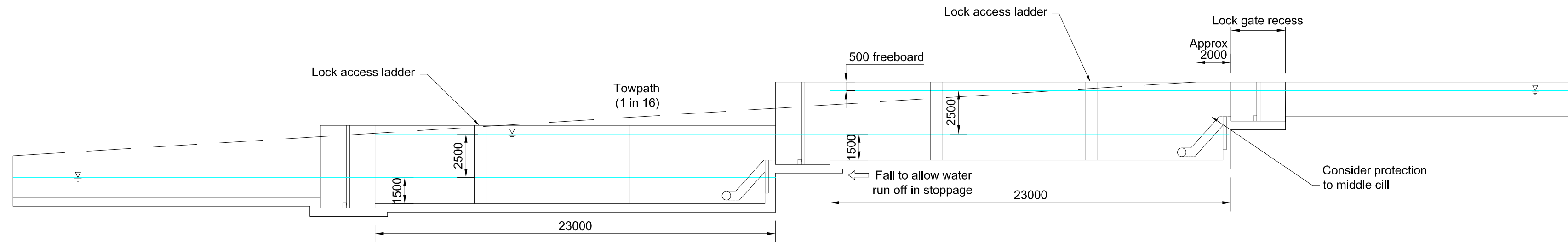
Drawing Scale: AS SHOWN at A1

OUTLINE DESIGN

DRAWING NAME & LOCATION: W:\PROJECTS\NEW CLIENTS\BEDFORD BEDMANTON\WORKS\BEDFORD MILTON\KEYNES WATERWAY\GREEN LANE TO HOMELESS WOOD\BMK SECTION M TO Q\TYPICAL LOCK STRUCTURE (SHEET 2 OF 2).DWG  
DATE & TIME: 14/12/2014 4:53 PM  
USER NAME: Menden, Chris@p



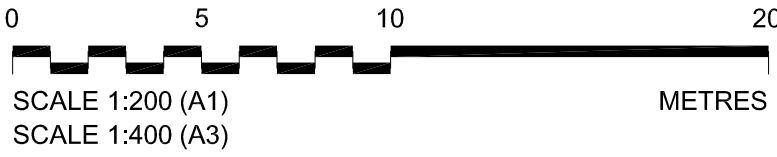
PLAN VIEW  
SCALE 1:200



LONG SECTION C-C  
SCALE 1:200

- Notes:
- DO NOT SCALE FROM THIS DRAWING.
  - ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
  - ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  - LOCK OPENS OUT TO CHANNEL WIDTH OF 21000mm FOR OPEN ASPECT WATERWAY OR 9000mm FOR VERTICAL SIDED WATERWAY (AT BOTH ENDS OF LOCK).
  - THIS DRAWING SHOWS A LOCK WITH A 2.5m CHANGE IN WATER LEVEL. SIMILAR DETAILS APPLY FOR OTHER LOCKS (SEE TABLE BELOW).
  - ROUTE OF TOWPATH VARIES BETWEEN LOCKS IN ORDER TO ACCOMMODATE A 1 IN 16 SLOPE. A 9m DISTANCE BETWEEN LOCK AND EDGE OF ADDITIONAL MAINTENANCE STRIP WILL BE ADHERED TO.
  - THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE.

Locks	
Chainage (m)	Dim C (mm)
500	3000
1470	2500
1500	2500
2500	3250



Rev	By	Chkd	Apprvd	Date	Description
0					

Client



Bedford Borough Council  
Borough Hall  
Cauldwell Street  
Bedford  
MK42 9AP  
Tel: 01234 267422

**Halcrow Group Limited**  
Endeavour House, Forster Way, Cygnet Park, Hampton, Peterborough, Cambs PE7 8GX  
Tel +44 (0)1733 560033 Fax +44 (0)1733 427988  
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A CH2M HILL COMPANY



Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

Drawing

**TYPICAL DOUBLE  
LOCK STRUCTURE  
(SHEET 1 OF 2)**

Drawn by: CM	Date: 14/04/14
Checked by:	Date:
Approved by:	Date:
Drawing No.	Revision
476075-HG-00-00-DR-C-402	0

Drawing Scale: AS SHOWN at A1

OUTLINE DESIGN

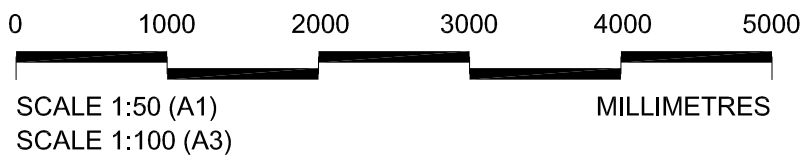
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DATE & TIME: 14/04/14 14:04:00  
USER NAME: Menden, Chris/UP



### Notes:

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
4. THIS DRAWING SHOWS A LOCK WITH A 2.5m CHANGE IN WATER LEVEL (ONE OF THE LOCKS IN THE DOUBLE LOCK SETUP). SIMILAR DETAILS APPLY FOR OTHER LOCKS (SEE TABLE BELOW).
5. THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE.

Locks	
Chainage (m)	Dim C (mm)
500	3000
1470	2500
1500	2500
2500	3250



0	CM	JS	JN	20/02/14	FOR INFORMATION
Rev	By	Chkd	Apprvd	Date	Description

Client



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Borough Hall  
Cauldwell Street  
Bedford  
MK42 9AP  
Tel: 01234 267422

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Project

BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)

### Drawing

TYPICAL DOUBLE  
LOCK STRUCTURE  
(SHEET 2 OF 2)

Drawn by: CM Date: 14/04/14

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

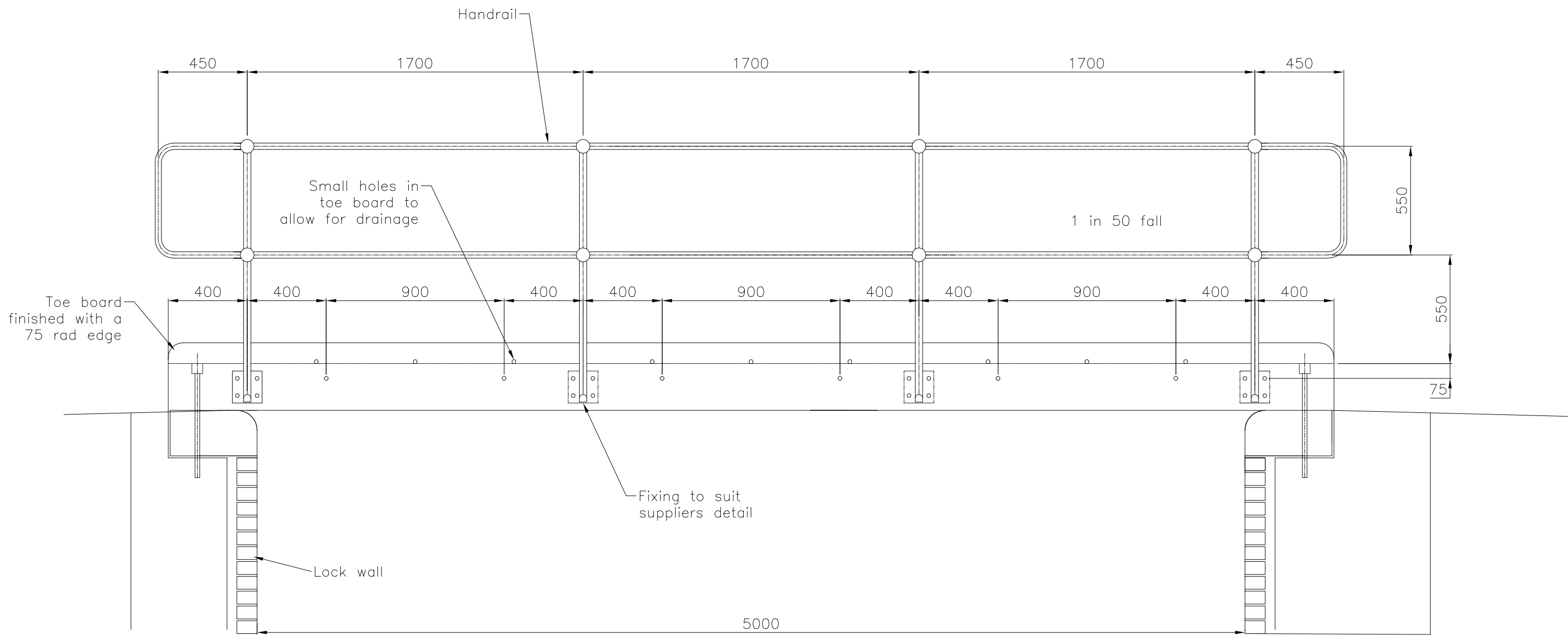
Drawing No.	Revision
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476075-HG-00-00-DB-C-401 0

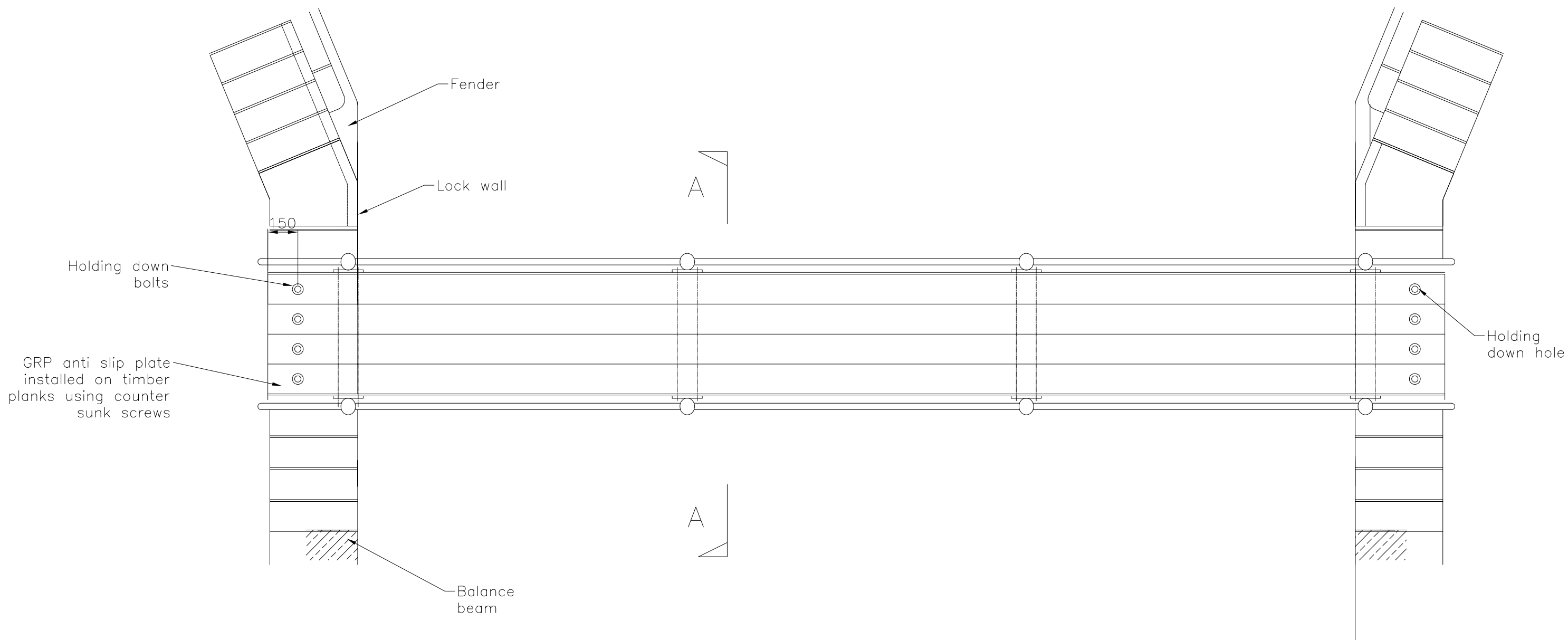
Drawing Scale: AS SHOWN at A1

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PAPER SIZE, PLOT SCALE = A1, 1:1  
DATE & TIME = 14.11.2014 4:34 PM

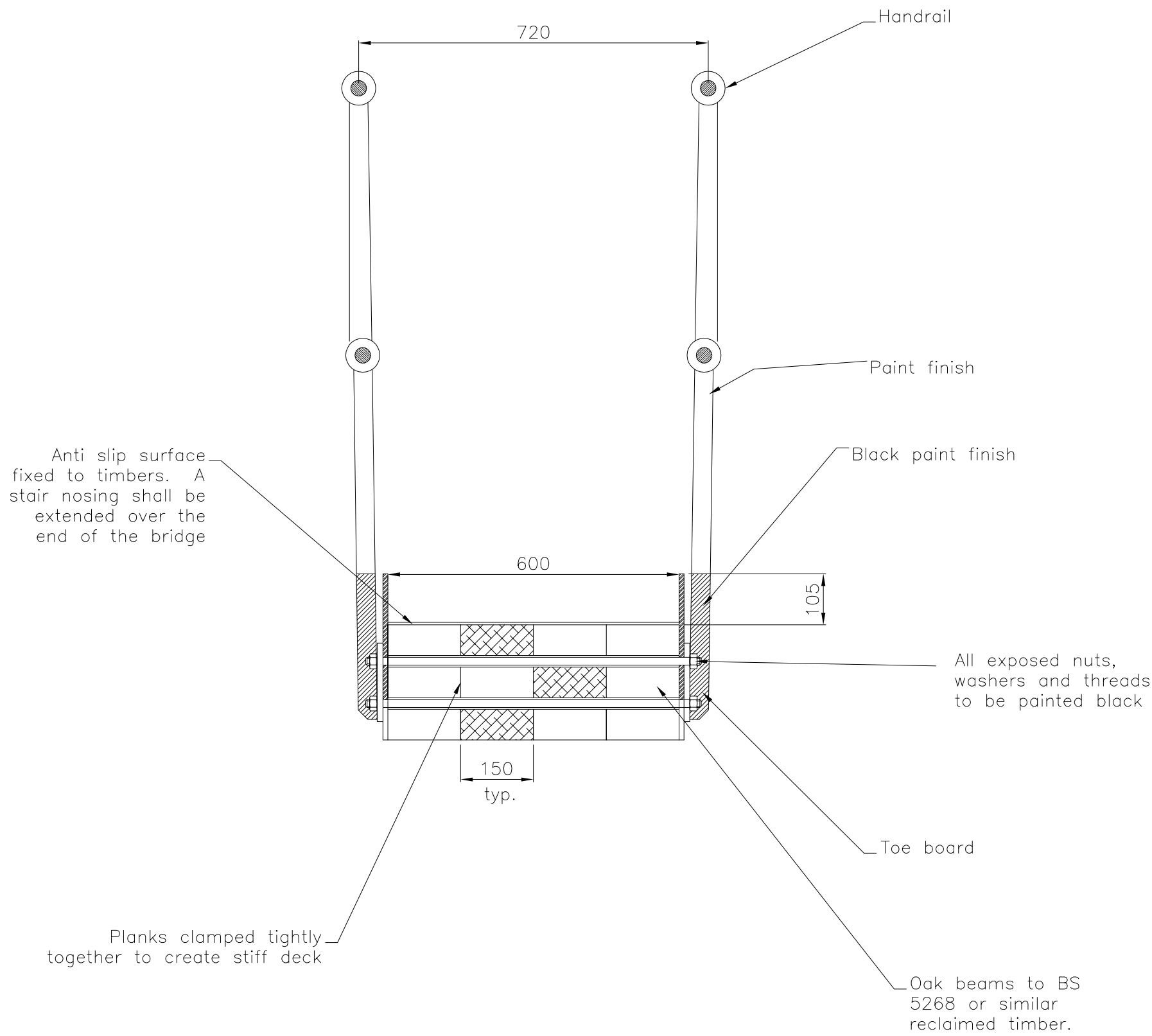




ELEVATION  
Scale 1:20



PLAN  
Scale 1:20

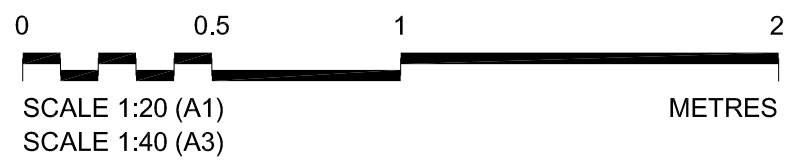
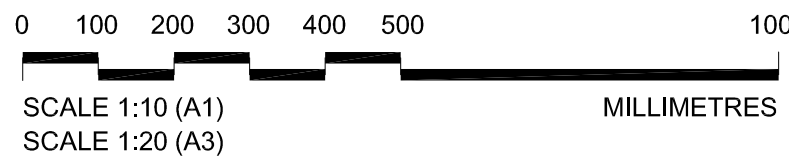


SECTION A-A  
Scale 1:10

OUTLINE DESIGN

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- BRIDGES ARE TO BE LOCATED TYPICALLY AT THE DOWNSTREAM END OF THE LOCK STRUCTURE.
- A 3m CLEARANCE BETWEEN THE WATER AND UNDERSIDE OF THE BRIDGE MUST BE PROVIDED. IF THE LOCK HAS A CHANGE IN LEVEL OF LESS THAN THIS, THE BRIDGE MUST BE ELEVATED TO ACCOMMODATE THE REQUIRED DISTANCE.
- THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE. A STEEL DECK BRIDGE COULD BE USED AS AN ALTERNATIVE TO THIS - TO BE CONSIDERED AT DETAIL DESIGN STAGE.



Rev	By	Chkd	Apprvd	Date	Description
0				20/02/14	FOR INFORMATION

Client	Bedford Borough Council Borough Hall Cauldwell Street Bedford MK42 9AP Tel: 01234 267422
--------	---

**Halcrow Group Limited**  
Endeavour House, Forster Way, Cygnet Park, Hampton, Peterborough, Cambs PE7 8GX  
Tel +44 (0)1733 560033 Fax +44 (0)1733 427988  
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A CH2M HILL COMPANY

Project  
**BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

Drawing

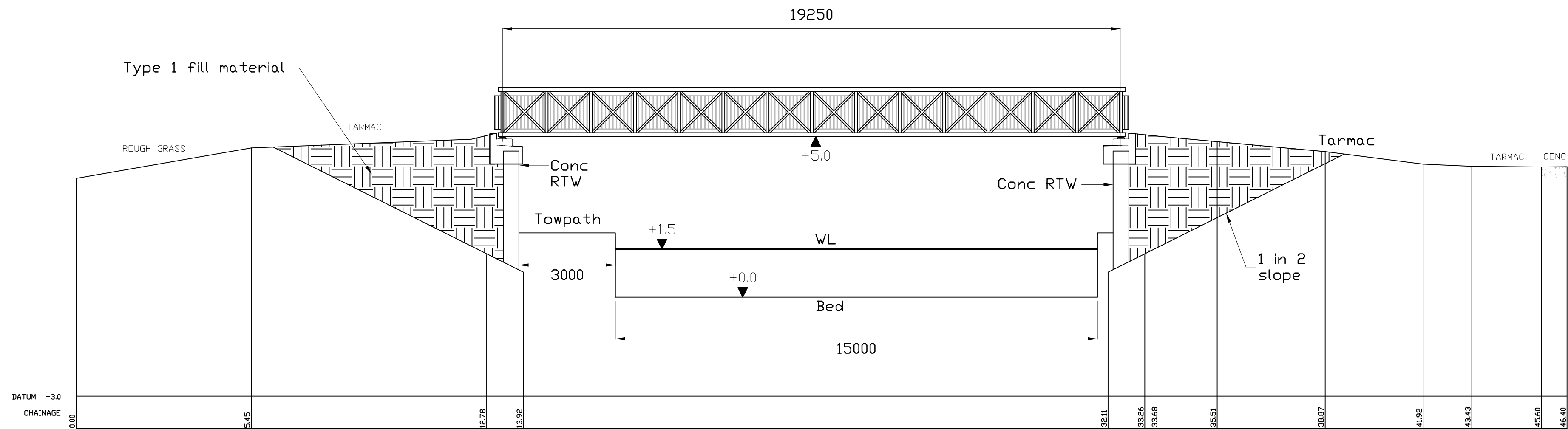
**TYPICAL LOCK  
BRIDGE DETAILS**

Drawn by: CM	Date: 20/02/14
Checked by: JS	Date: 20/03/14
Approved by: JN	Date: 09/04/14

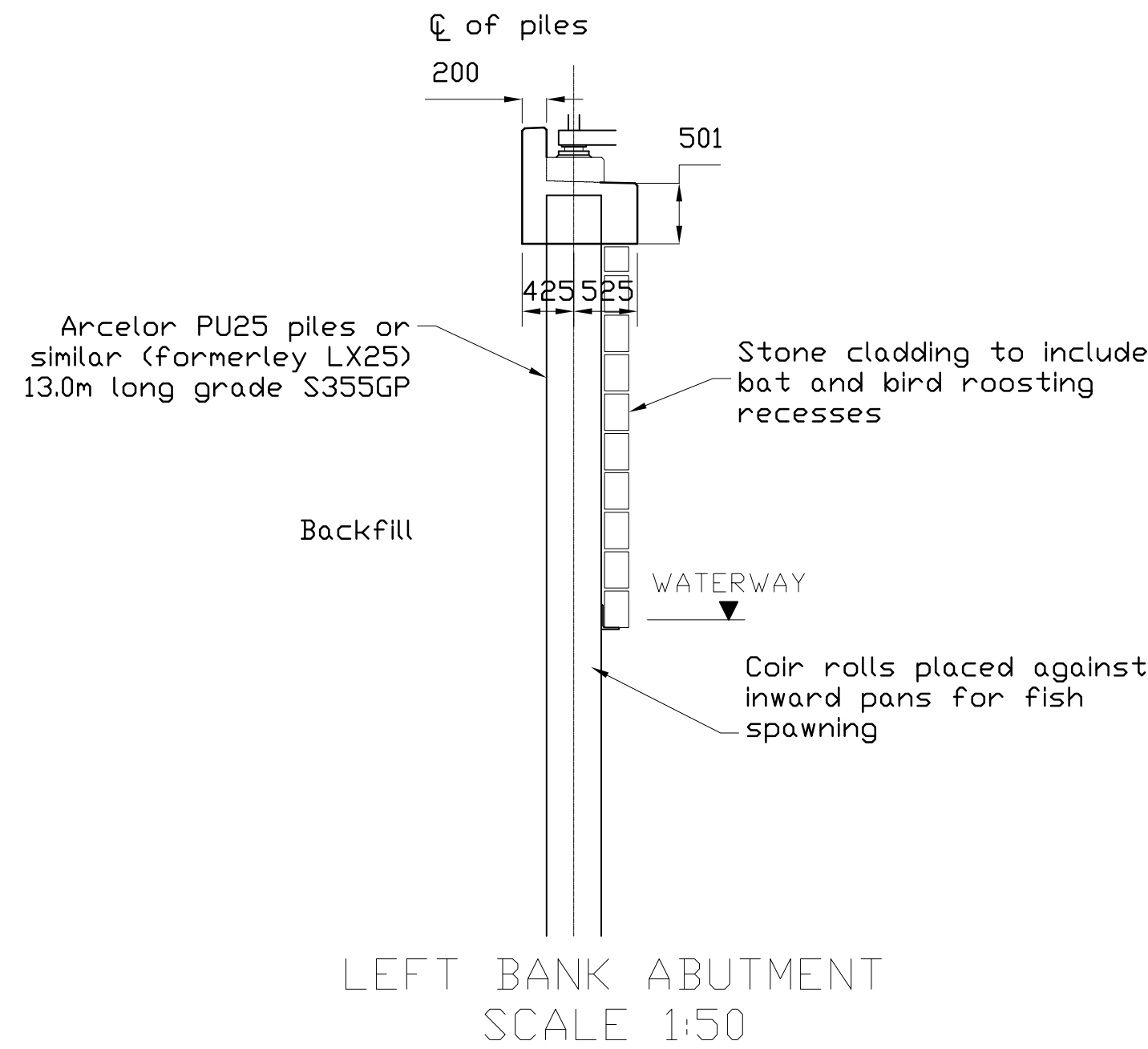
Drawing No.	Revision
476075-HG-00-00-DR-C-404	0

Drawing Scale: AS SHOWN at A1

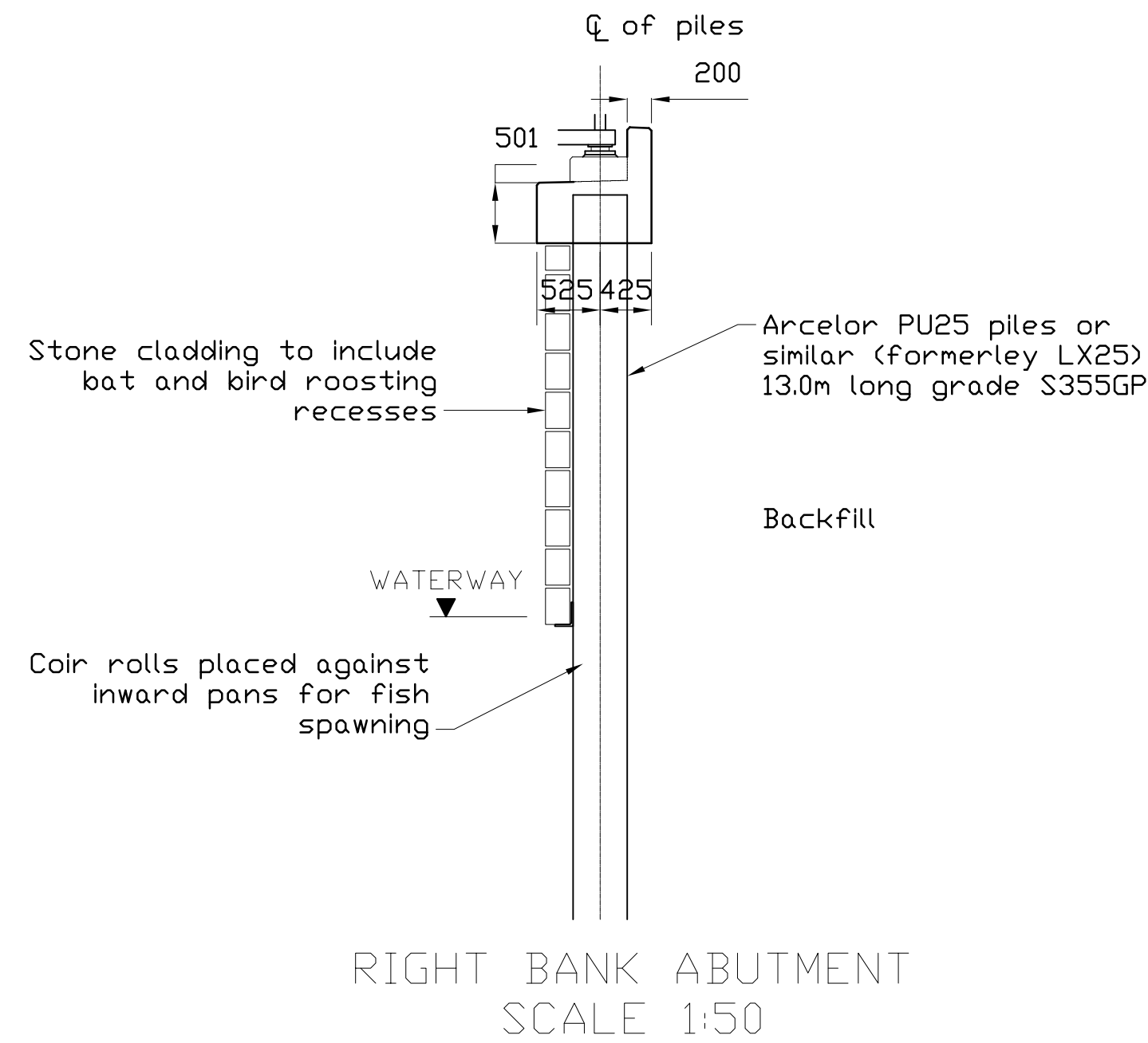
DRAWING NAME & LOCATION: W:\PROJECTS\NEW CLIENTS\BEDFORD\BEDFORD MILTON\KEYNES WATERWAY\GREEN LANE TO HOMELESS WOOD\BMK SECTION M TO Q\476075-HG-00-00-DR-C-404-00.DWG  
DATE & TIME: 14/12/14 4:53 PM  
USER NAME: Menden, Chris/Up



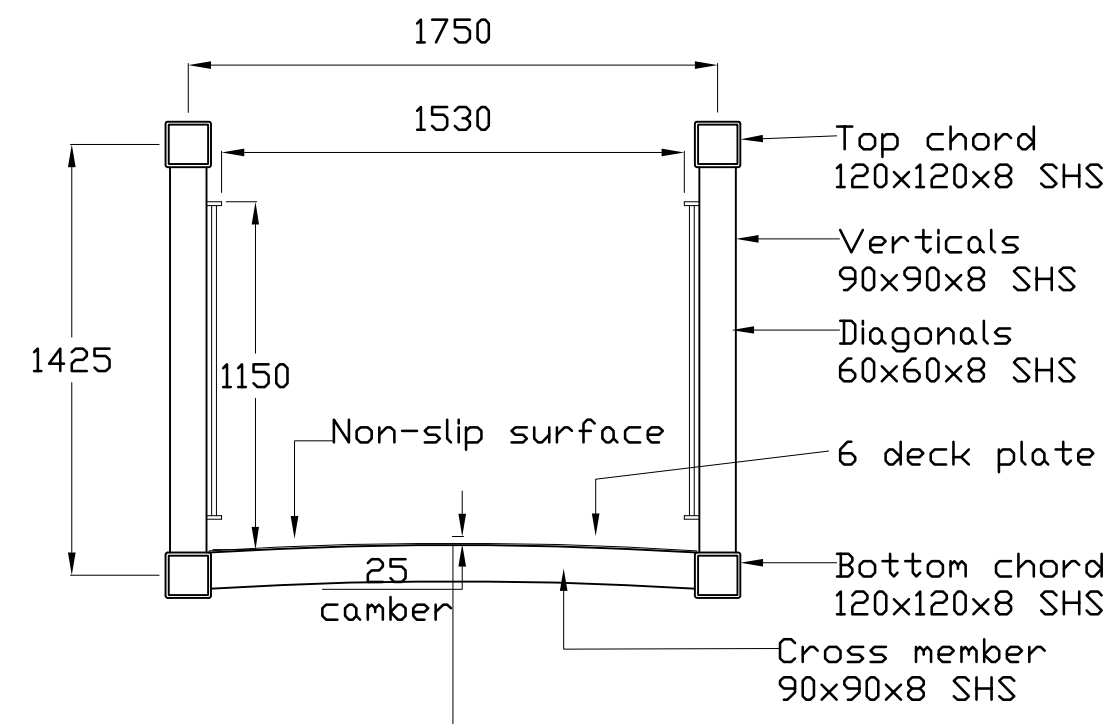
ELEVATION  
SCALE 1:100



LEFT BANK ABUTMENT  
SCALE 1:50



RIGHT BANK ABUTMENT  
SCALE 1:50

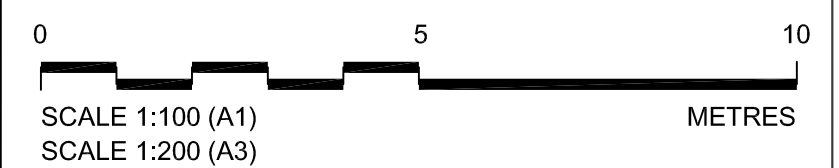
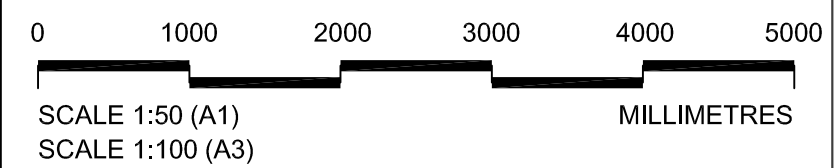


DECK SECTION  
SCALE 1:25

FOR INFORMATION ONLY

#### Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- EXCAVATION TO THE FINAL SURFACE FOR THE FOUNDATION OF EARTH STRUCTURES AND EMBANKMENTS SHALL BE CARRIED OUT IMMEDIATELY BEFORE THE COMMENCEMENT OF FILLING.
- IF ANY PART OF THE EXPOSED GROUND AT THE FINAL SURFACE OF THE EXCAVATION IS CONSIDERED UNSUITABLE DUE TO THE ORGANIC NATURE OF THE MATERIAL OR ITS SOFT CONSISTENCY (<50kPa), THE CONTRACTOR SHALL EXCAVATE AND REMOVE SUCH UNSUITABLE MATERIAL AND REPLACE IT WITH SUITABLE COHESIVE NON ORGANIC MATERIAL COMPACTED TO A MINIMUM UNDRAINED SHEAR STRENGTH OF 50kPa.
- WHENEVER FILL IS TO BE DEPOSITED AGAINST THE FACE OF A NATURAL SLOPE, OR SLOPING EARTHWORKS FACE INCLUDING EMBANKMENTS, CUTTINGS, OTHER FILLS AND EXCAVATIONS, SUCH FACES SHALL BE BENCHED.
- THIS DRAWING IS BASED ON RIVER THAMES TOWPATH OSNEY FOOTBRIDGE (DRAWING NUMBER: W 5042-003)
- THIS DRAWING IS INDICATIVE ONLY - SUBJECT TO CHANGE AT DETAIL DESIGN STAGE.



Rev	By	Chkd	Appvd	Date	Description
0	CM	JS	JN	24/03/14	FOR INFORMATION

Client  
**BEDFORD BOROUGH COUNCIL**  
Bedford Borough Council  
Borough Hall  
Cauldwell Street  
Bedford  
MK42 9AP  
Tel: 01234 267422

**Halcrow Group Limited**  
Endeavour House, Forder Way, Cygnet Park, Hampton, Peterborough, Cambs PE7 8GX  
Tel: +44 (0)1733 560033 Fax: +44 (0)1733 427988  
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A CH2M HILL COMPANY  
**Halcrow**

Project  
**BEDFORD MILTON KEYNES WATERWAY**

Drawing  
**TYPICAL WATERWAY FOOTBRIDGE**

Drawn by: CM Date: 24/03/14  
Checked by: JS Date: 20/03/14  
Approved by: JN Date: 09/04/14

Drawing No.	Revision
476075-HG-00-00-DR-C-405	0

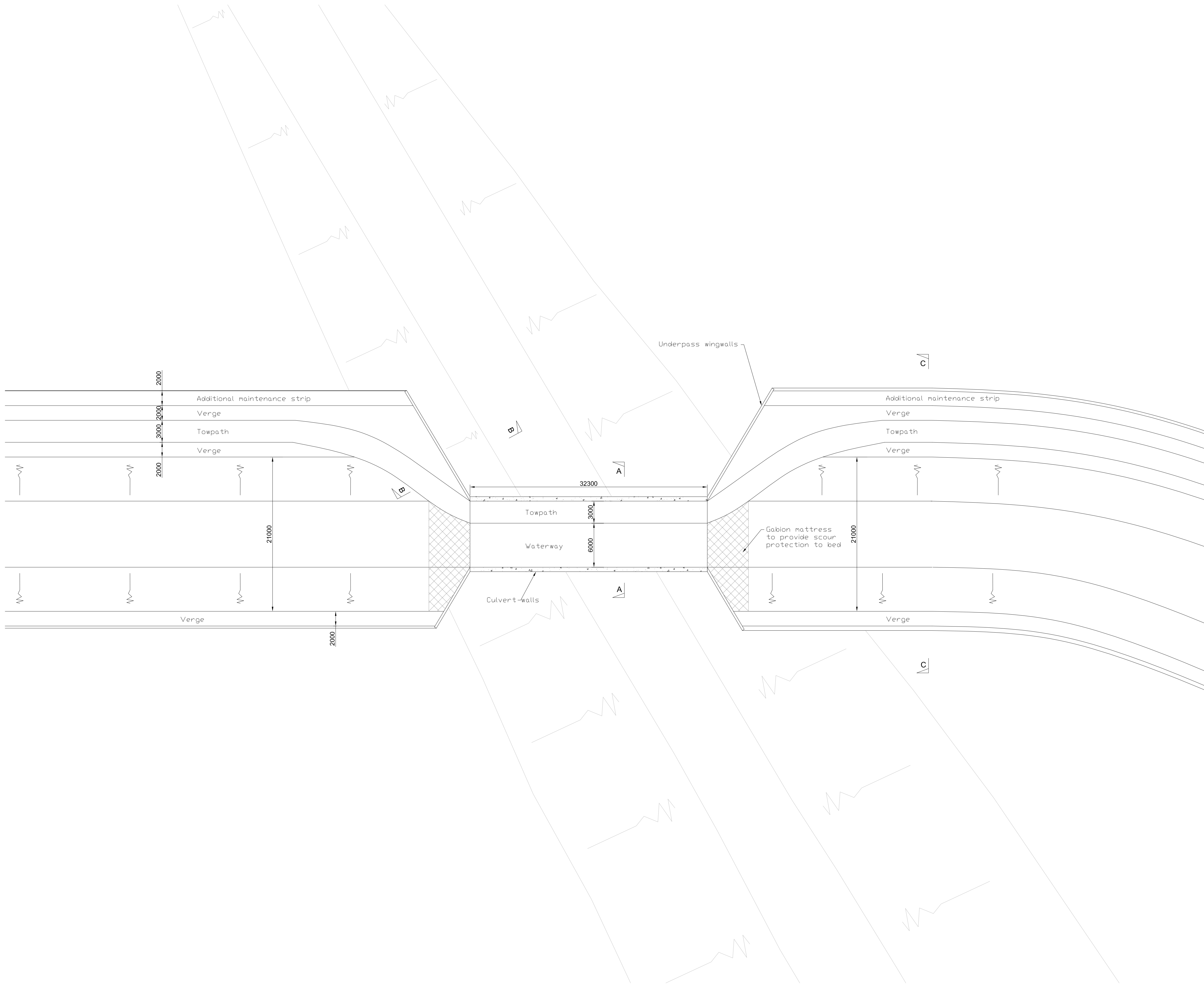
Drawing Scale: AS SHOWN at A1

DRAWING NAME & LOCATION: W 5042-003 - TYPICAL WATERWAY FOOTBRIDGE  
PAPER SIZE: A1 (1180x840mm)  
USER NAME: Maudie.Chen@halcrow.com



DRAWING NAME & LOCATION = W:\PROJECTS\NEW CLIENTS\BEDFORD BC\BMKW\DRAWING3S\_FIELDS RD\478075-HG-00-00-DR-C-10-14.DWG  
PAPER SIZE: PLOT SCALE = A1, 1:1  
DATE & TIME = 14.11.2014, 4:37 PM  
USER NAME = Mandeep Chahal JKD





PLAN  
SCALE 1:250

OUTLINE DESIGN

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- THIS DRAWING IS INDICATIVE ONLY: SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.

0 5 10 15 20

SCALE 1:250 (A1)  
SCALE 1:500 (A3) METRES

Rev	By	Chkd	Apprvd	Date	Description
0	CM	JS	JN	15/04/14	DRAFT

Client



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halcrow.com

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Project  
**BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMLESS WOOD  
(BMK SECTION M TO Q)**

Drawing

**FIELDS ROAD UNDERPASS  
GENERAL ARRANGEMENT**

Drawn by: CM Date: 15/04/14

Checked by: JS Date: 16/04/14

Approved by: JN Date: 16/04/14

Drawing No. Revision

476075-HG-00-00-DR-C-411 0

Drawing Scale: AS SHOWN at A1

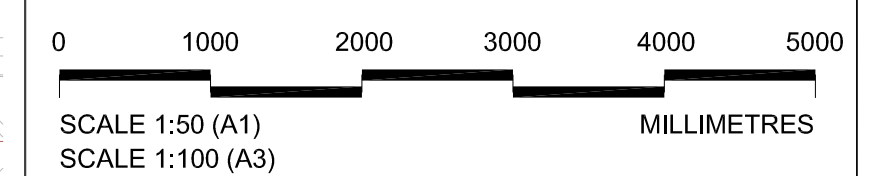
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DATE & TIME: 14/12/14 4:59 PM  
USER NAME: Menden, Chris@p





Notes:

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
4. WINGWALLS CAN BE CONSTRUCTED OF CONCRETE, SHEET PILES, GABIONS OR REINFORCED EARTH, TO BE DETERMINED AT DETAIL DESIGN STAGE.
5. THIS DRAWING IS INDICATIVE ONLY: SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.



0	CM	JS	JN	15/04/14	DRAFT
Rev	By	Chkd	Apprvd	Date	Description

Client



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Borough Hall  
Cauldwell Street  
Bedford  
MK42 9AP  
Tel: 01234 267422

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Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMLESS WOOD  
(BMK SECTION M TO Q)**

Drawing

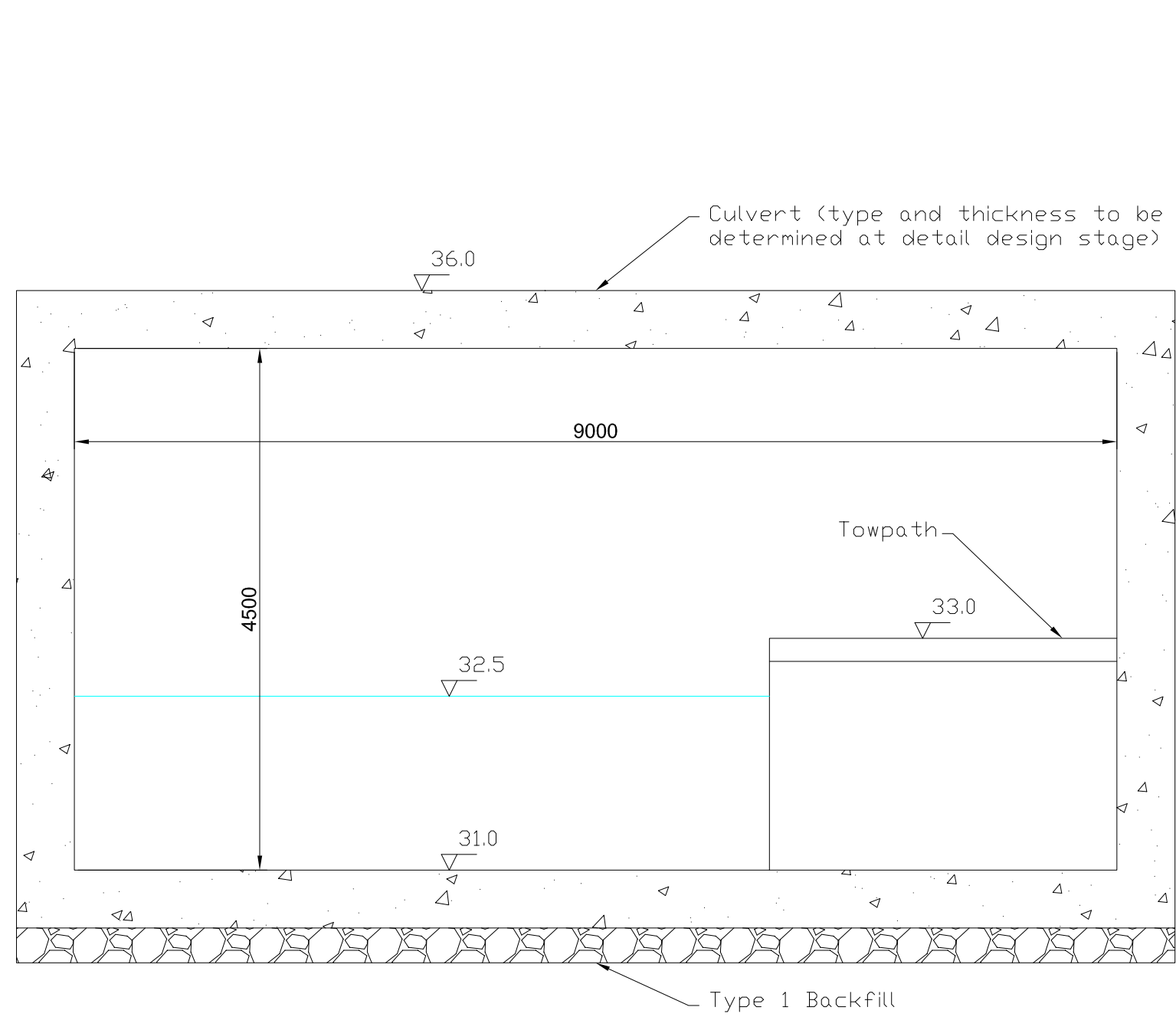
## OLD A421 UNDERPASS CROSS SECTIONS

Drawn by: CM	Date: 15/04/14
Checked by: JS	Date: 16/04/14
Approved by: JN	Date: 16/04/14

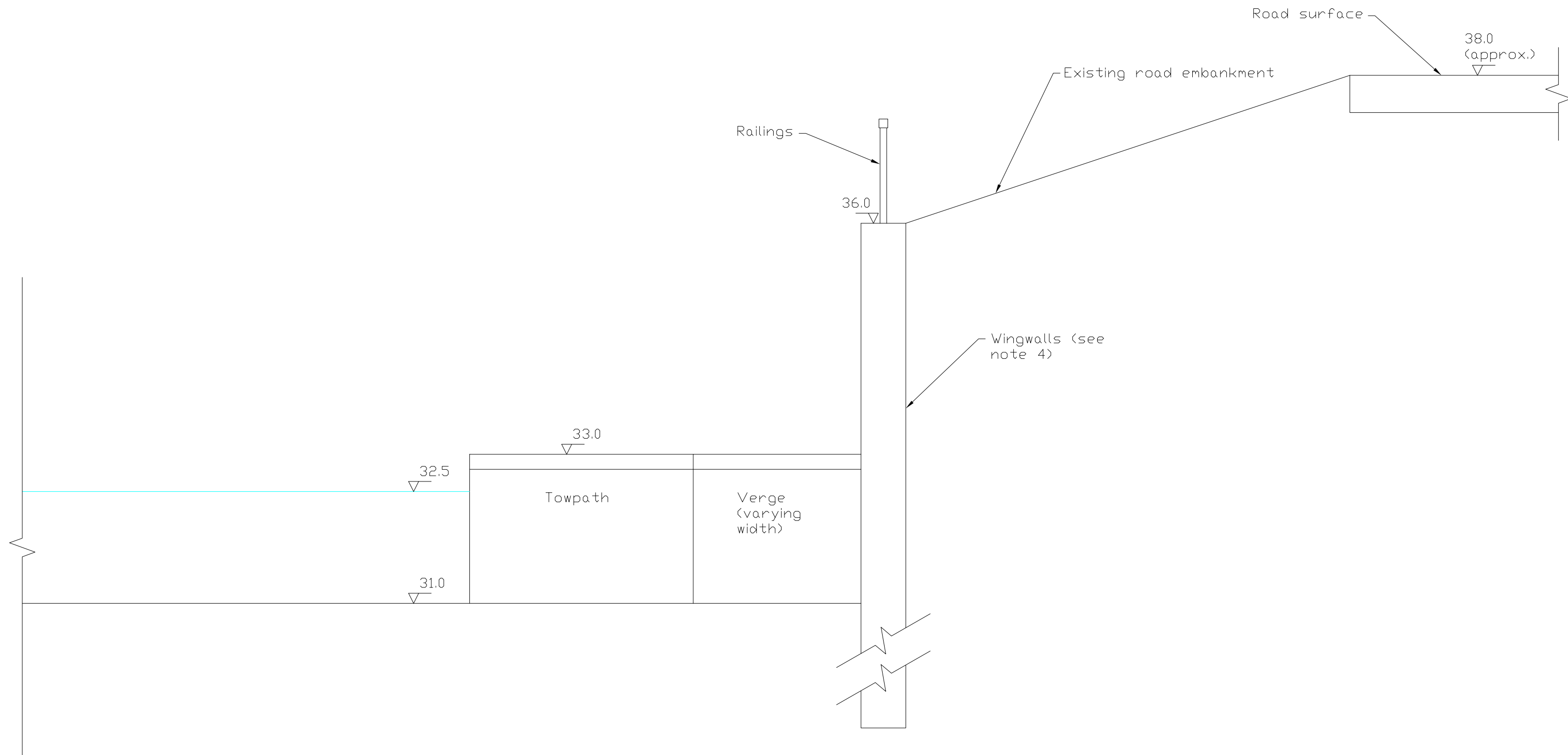
Drawing No.	Revision
476075-HG-00-00-DR-C-412	0

Drawing Scale: AS SHOWN at A1

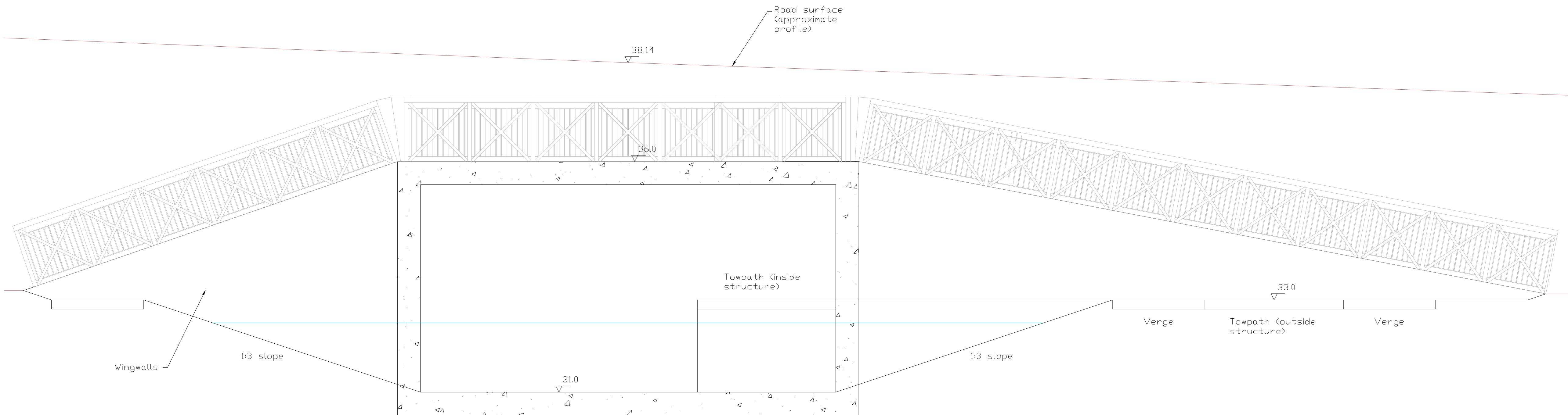
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PLOT SCALE = A1, 1:1  
DATE & TIME = 14.11.2014 4:38 PM  
USER NAME = Munden, Chris\UKP



SECTION A-A  
SCALE 1:50



SECTION B-B  
SCALE 1:50

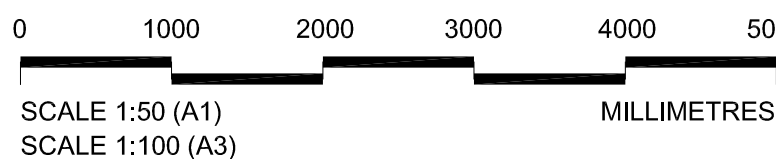


SECTION C-C  
SCALE 1:50

OUTLINE DESIGN

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- WINGWALLS CAN BE CONSTRUCTED OF CONCRETE, SHEET PILES, GABIONS OR REINFORCED EARTH. TO BE DETERMINED AT DETAIL DESIGN STAGE.
- THIS DRAWING IS INDICATIVE ONLY: SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.



Rev	By	Chkd	Apprvd	Date	Description
0	CM	JS	JN	15/04/14	DRAFT

Client



**BEDFORD**  
BOROUGH COUNCIL

Bedford Borough Council  
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Cauldwell Street  
Bedford  
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Tel: 01234 267422

**Halcrow Group Limited**  
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halcrow.com

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Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

Drawing

**FIELDS ROAD UNDERPASS  
CROSS SECTIONS**

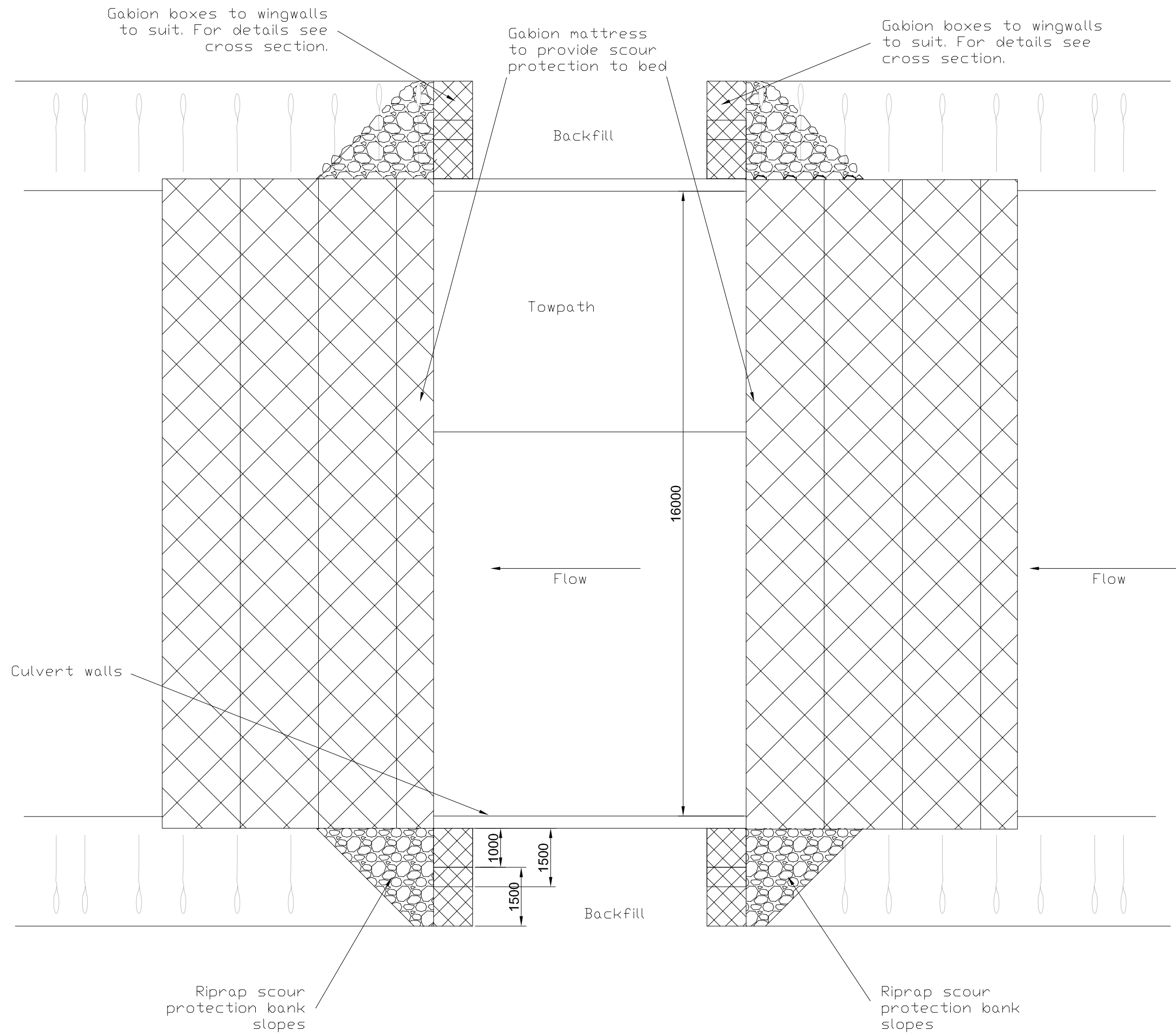
Drawn by: CM	Date: 15/04/14
Checked by: JS	Date: 16/04/14
Approved by: JN	Date: 16/04/14

Drawing No.	Revision
476075-HG-00-00-DR-C413	0

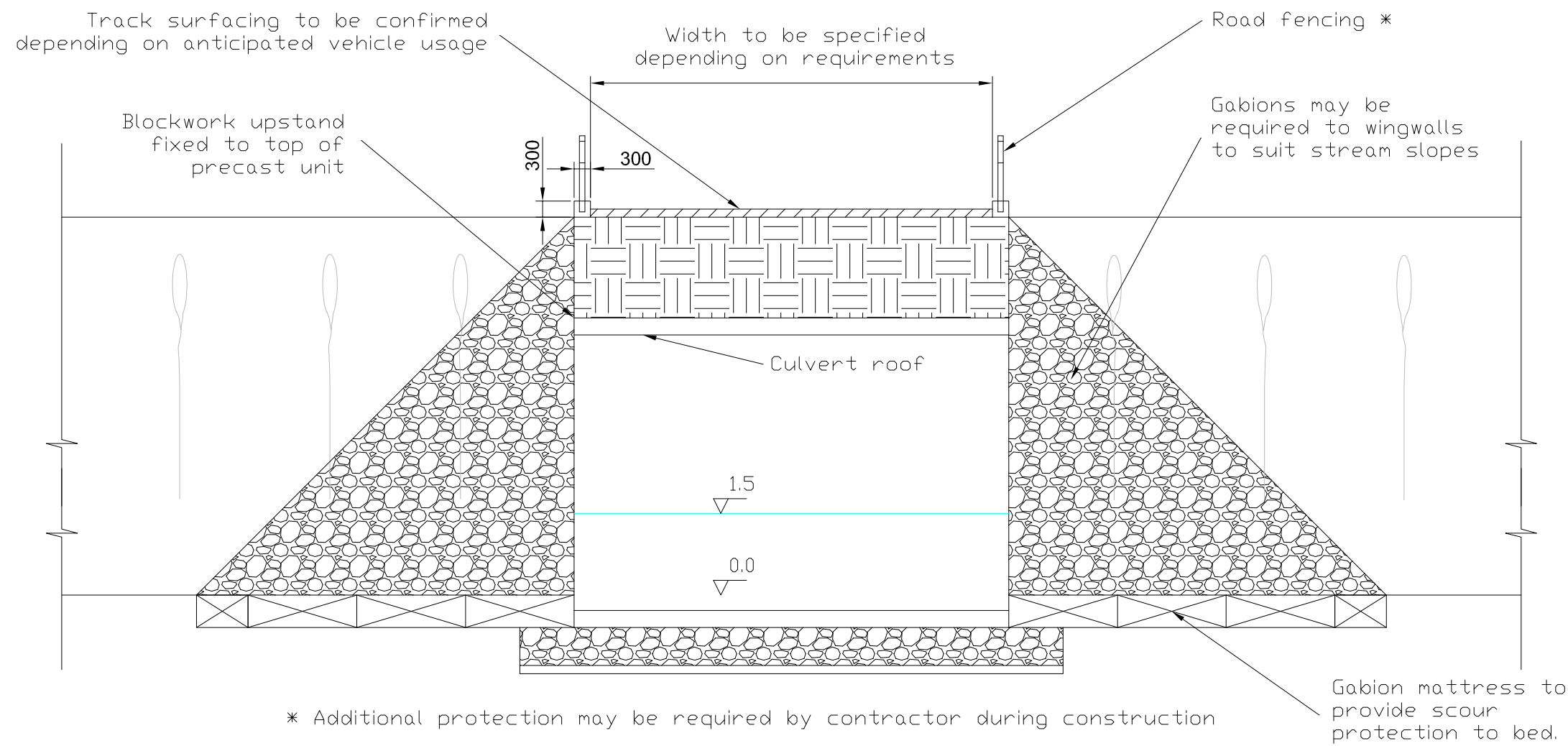
Drawing Scale: AS SHOWN at A1

DRAWING NAME & LOCATION: W:\PROJECTS\NEW CLIENTS\BEDFORD\BEDFORD MILTON\KEYNES WATERWAY\GREEN LANE TO HOMELESS WOOD\BMK SECTION M TO Q\DR-C413-1.dwg  
DATE & TIME: 14/12/14 4:59 PM  
USER NAME: Menden, Chris/Up

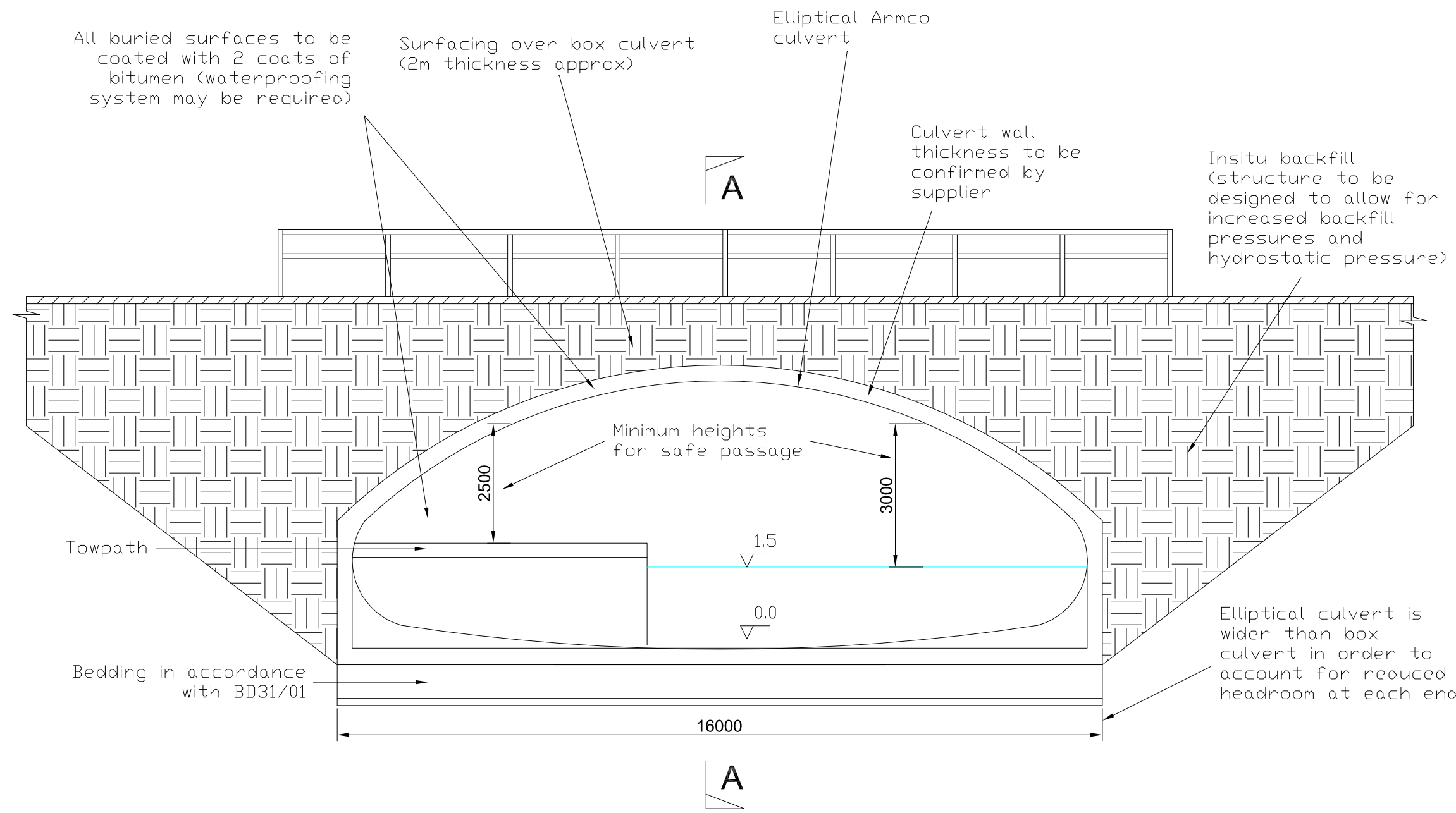




PLAN  
SCALE 1:100



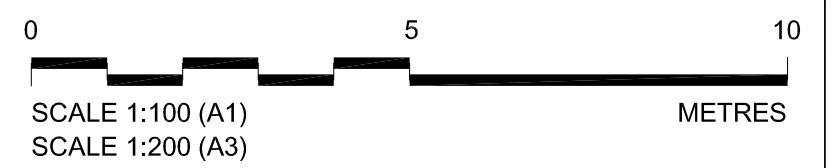
SECTION A-A  
SCALE 1:100



CROSS SECTION  
SCALE 1:100

#### Notes:

- DO NOT SCALE FROM THIS DRAWING.
- ALL LEVELS GIVEN IN METRES WITH THE CHANNEL BED LEVEL AS THE DATUM.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- THIS DRAWING IS INDICATIVE ONLY: SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.



Rev	By	Chkd	Apprvd	Date	Description
0	CM	JS	JN	28/02/14	DRAFT



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A CH2M HILL COMPANY



Project **BEDFORD MILTON  
KEYNES WATERWAY  
GREEN LANE TO HOMELESS WOOD  
(BMK SECTION M TO Q)**

Drawing **TYPICAL UNDERPASS  
(ELLIPTICAL)**

Drawn by: CM Date: 28/02/14  
Checked by: JS Date: 20/03/14  
Approved by: JN Date: 09/04/14

Drawing No. **476075-HG-00-00-DR-C-414** Revision **0**

Drawing Scale: AS SHOWN at A1

FOR INFORMATION ONLY