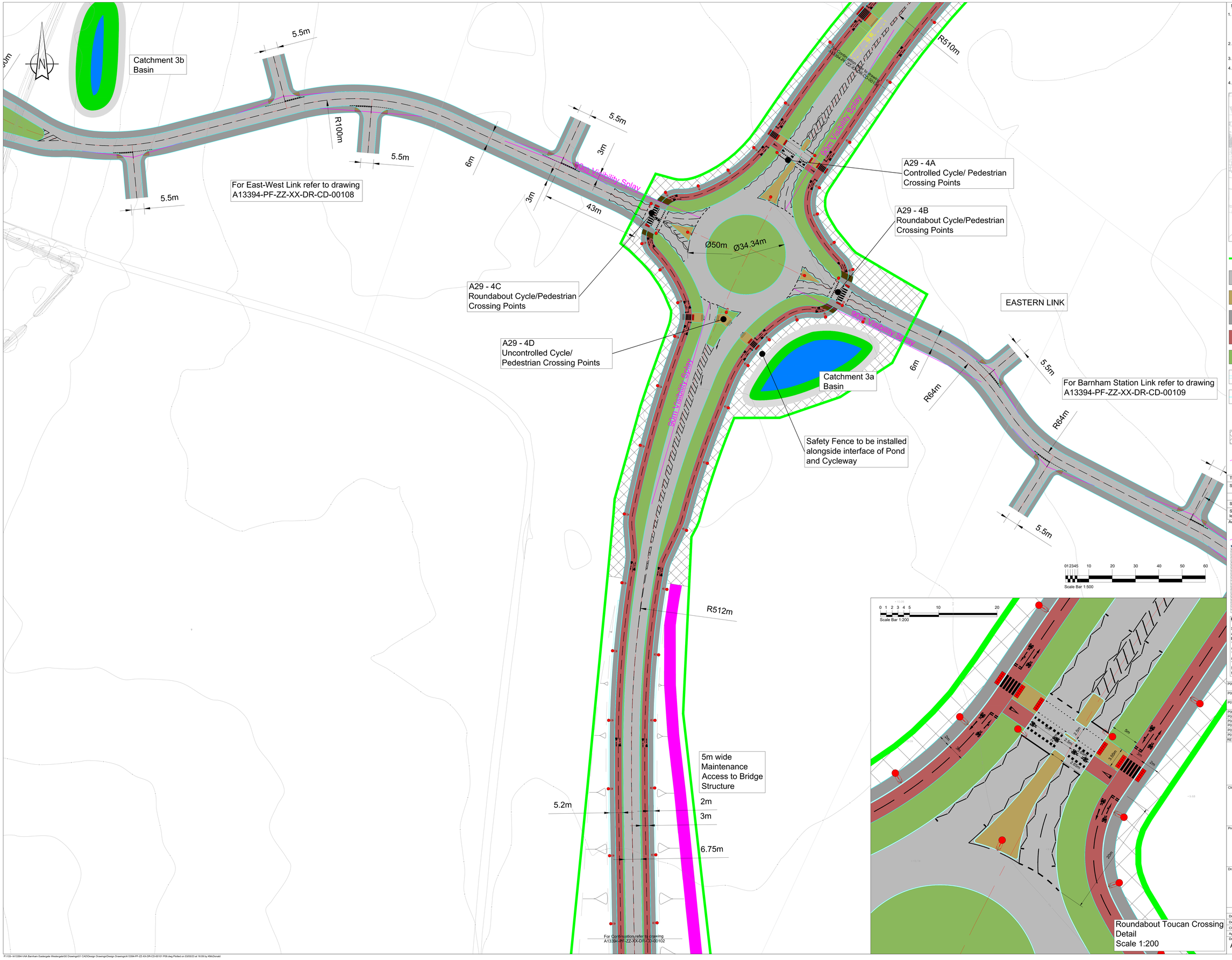

NOTES:

1. Where the Contractor undertakes or engages a third party to undertake temporary works design, or varies the Pell Frischmann design in any way, then the Contractor will take full responsibility and liability for all design aspects, including a Design Risk Assessment. The Contractor shall inform Pell Frischmann of any proposed variances to the design.
2. This drawing shall be read in conjunction with all other Electrical, Mechanical, Public Health & Architectural Drawings & The Specification.
3. Topographical Information was provided by 3D Engineering Surveys and Pell Frischmann will not be held liable for any inaccuracies.
4. Barnham Road Roundabout and Northern Link Road designed by WSP, Pell Frischmann will not be held liable for any inaccuracies contained within this section.
4. Partial Western Link Road designed by CALA, Pell Frischmann will not be held liable for any inaccuracies contained within this section.

Location Plan

KEY:

- **A29 ROAD CORRIDOR**
- **PROPOSED CARRIAGEWAY** HRA Carriageway Surfacing
- **ASPHALT SPLITTER ISLAND/CROSSING POINTS**
- **SEGREGATED PEDESTRIAN FOOTWAY** Asphalt Footway Surfacing
- **SEGREGATED CYCLEWAY** Contrasting asphalt finish to footway. Physical delineation strip to be Kerb or similar agreed at detailed design stage.
- **GRASS VERGE/SWALE** Please Refer Landscaping Drawings for details
- **PROPOSED KERBS**
- **FOOTWAY EDGING KERB**
- **STREET LIGHTING**
- **ROAD ZONE (NORTH)** Potential earthworks zone necessary for the construction of the road. Extent of earthworks and road landscaping to be agreed via condition. Residual land to form part of development parcels

Junction Visibility Splays based on Table 7.1 from Manual for Street. This applies to Western Link, Barnham Station Link and the Hanbury Link.

Table 7.1 Derived SSDs for Streets (figures rounded)

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
	Miles per hour	10	12	15	16	19	20	25	28	30	31	37
SSD (metres)		9	12	15	16	20	22	31	36	40	43	56
SSD adjusted for bonnet length. See 7.6.4		11	14	17	18	23	25	33	39	43	45	59

Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

Table 2.10 Design speed related parameters

Design speed (v)/h	120	100	85	70	60	50	50R
Stopping sight distance (metres)							
Desirable minimum	295	215	149	105	90	70	
One step below desirable minimum	215	160	120	90	70	50	
Horizontal curvature (metres)							
Minimum R with adverse crown and adverse gradients	2500	1600	1000	710	510	360	3
Minimum R with superelevation of 2.5%	2040	1410	1000	710	510	360	2.47
Minimum R with superelevation of 3.5%	1440	1000	710	510	360	255	20
Desirable minimum R (recentralised 2%)	4300	2500	1410	990	710	510	18.34
One step below desirable Minimum R (superelevation 7%)	720	510	360	255	180	127	20
Ten steps below desirable minimum radius (superelevation 7%)	110	80.0	57.0	40.0	28.0	19.7	28.28
Transition curvature							
Desirable minimum K value A value	130	85	50	30	17	10	
One step below desirable min crest K value	43	19	10	5.7	3.3	1.9	
Desirable minimum sag K value	37	26	20	20	20	5	
Overtaking sight distances							
Full overtaking sight distance FOSD (metres)	-	580	490	412	345	290	
FOSD overtaking crest K value	-	400	285	206	142	100	

- Not recommended for use in the design of single carriageway (one function 3)
- The VPI values shown above simply represent a convenient means of identifying the relative levels of design parameters, irrespective of design speed.

Design Principles

Standards of Highway design are based on DMRB CD 116 &CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph
The Minimum Road width for A29 is 6.75m, allowing for the flow of two way traffic.
The Minimum Road width for East/West link and other link roads is 6m, allowing for the flow of two way traffic.
The A29 will have 5m Wide Verges with a 5m wide two way Segregated Footway/Cycleway, running parallel with the alignment of the Carriageway.

REV.	DESCRIPTION	DRN	CHK	APP	DATE
P09	Details amended following comments from WSCC 28th March 2023	KM	TM	TM	12.05.23
P08	Details amended following comments from WSCC 11th November 2022	KM	TM	TM	30.01.23
P07	Additional details added in accordance with WSCC comments June 2022	KM	TM	TM	26.07.22
P06	Client Reference Updated	KM	TM	TM	10.01.22
P05	Client Reference Updated	KM	TM	TM	05.11.21
P04	Minor amendments following comments from team	KM	TM	TM	05.10.21
P03	Minor amendments following comments from WSCC	KM	TM	TM	20.08.21
P02	Minor Layout amendments	KM	TM	TM	22.07.21
P01	Alignment amended in line with CD 109	KM	TM	TM	09.06.21

Pell Frischmann
5th Floor, 85 Strand London WC2R 0DW
Telephone +44 (0)20 7486 3661
Email: pflondon@pellfrischmann.com
www.pellfrischmann.com

Client
CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd

Project
BEW Parcel SC1

Drawing Title
A29 Link Road
General Arrangement
Sheet 2 of 10

	Name	Date
Drawn	KM	Apr 2021
Designed	KM	Apr 2021
Checked	TM	Apr 2021
Approved	TM	Apr 2021

Scale: 1:500 @ A0
File No. A13394-PF-ZZ-XX-DR-CD-00101 P09.dwg
Drawing Status: Preliminary
Drawing No. A13394-PF-ZZ-XX-DR-CD-00101
Revision P09

P:\133--\A13394-\A4A Barnham Eastergate Westergate\00 Drawings\S1 CAD\Design Drawings\Design Drawings\A13394-PF-ZZ-XX-DR-CD-00101 P09.dwg Plotted on 03/05/23 at 16:09 by KMcDonald

PF-FORMAT CLASSIC MAY 2020.DT