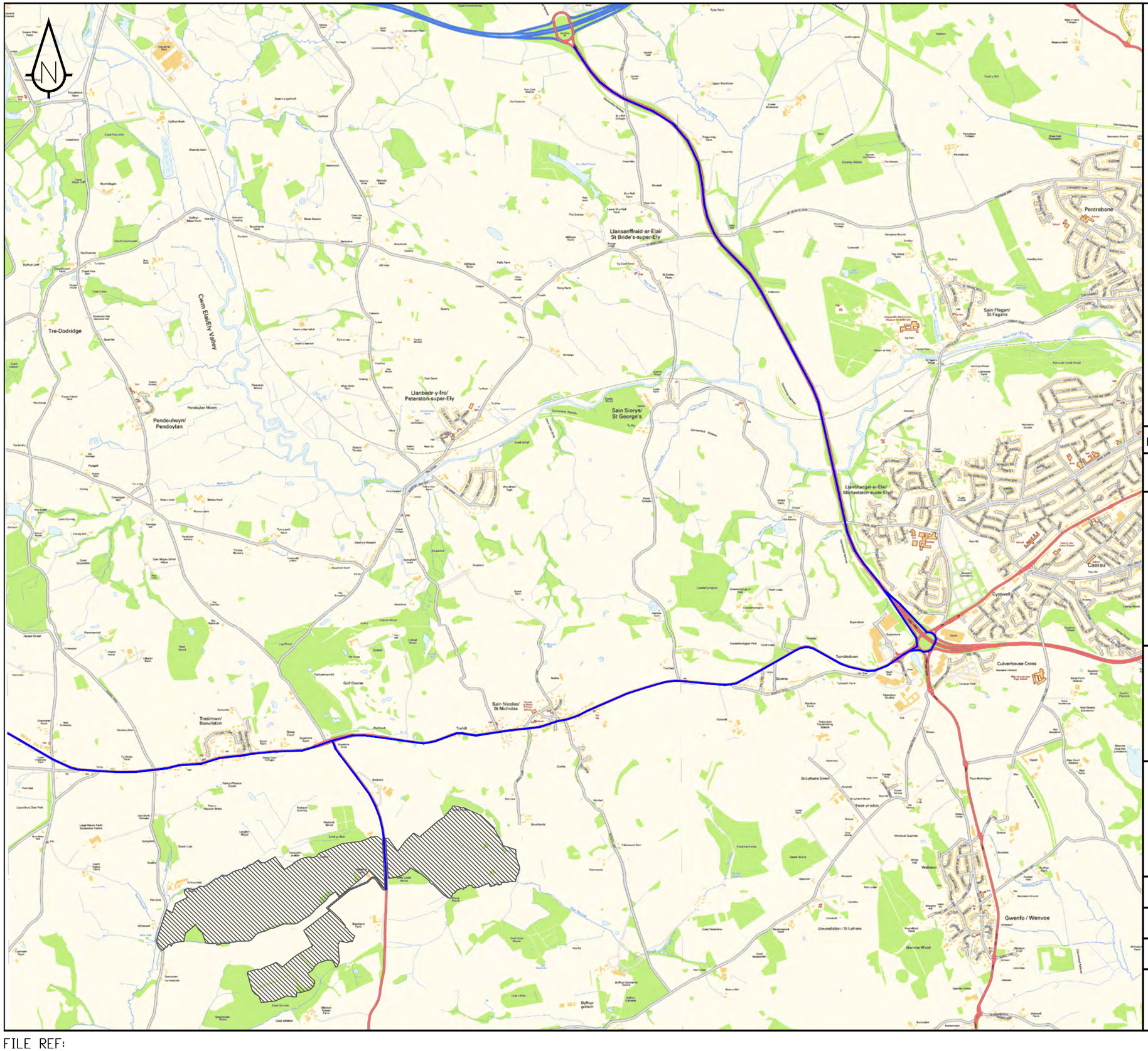
Document Reference	Appendix No.	Title
4.01.12a	12.1	Transport Statement Part 2

APPENDIX C

Drawing 300372-004 Vehicle Routes



KEY

Proposed Development Site

Vehicle Routes

Rev	Amendment	Drawn	Date	Checked

sanderson associates (consulting engineers) ltd

Highways | Traffic | Transportation | Water

T 01924 844080 mail@sandersonassociates.co.uk
F 01924 844081 www.sandersonassociates.co.uk

Project Name

Oaklands Solar Farm and BESS
South of Bonvilston
Vale of Glamorgan

Drawing Title

Vehicle Routes

Scale NTS		Drawn By	CP
Drawing Size	A3	Checked By	KS
Date	August 2022	Approved By	KS

	Drawing Number	Rev
	300372-004	-

FILE REF:

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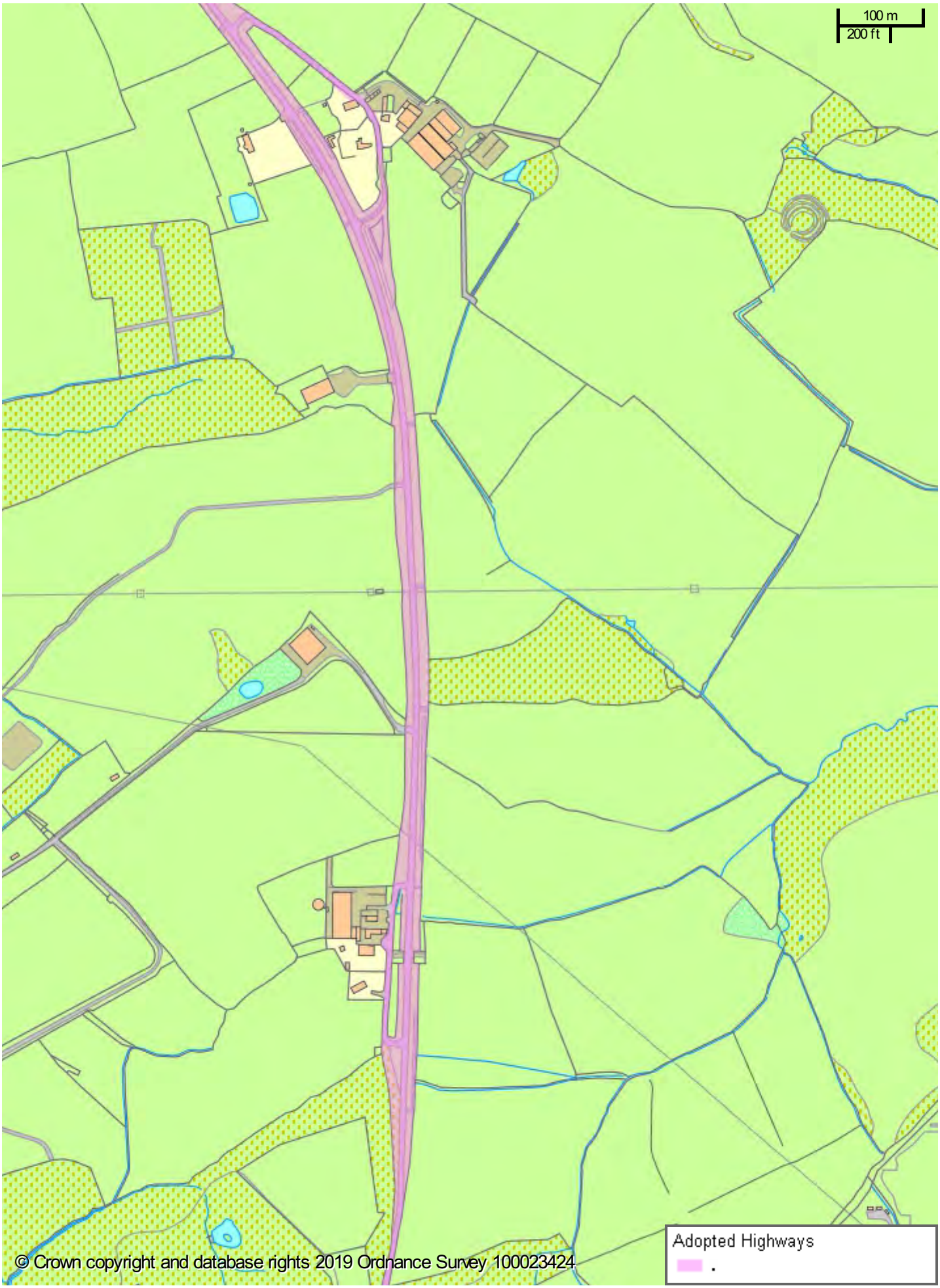
APPENDIX D

Highway Adoption Records

Drawing 300372-002 Site Access Visibility Splays



StaffnetGIS printing
Scale: 1:6000
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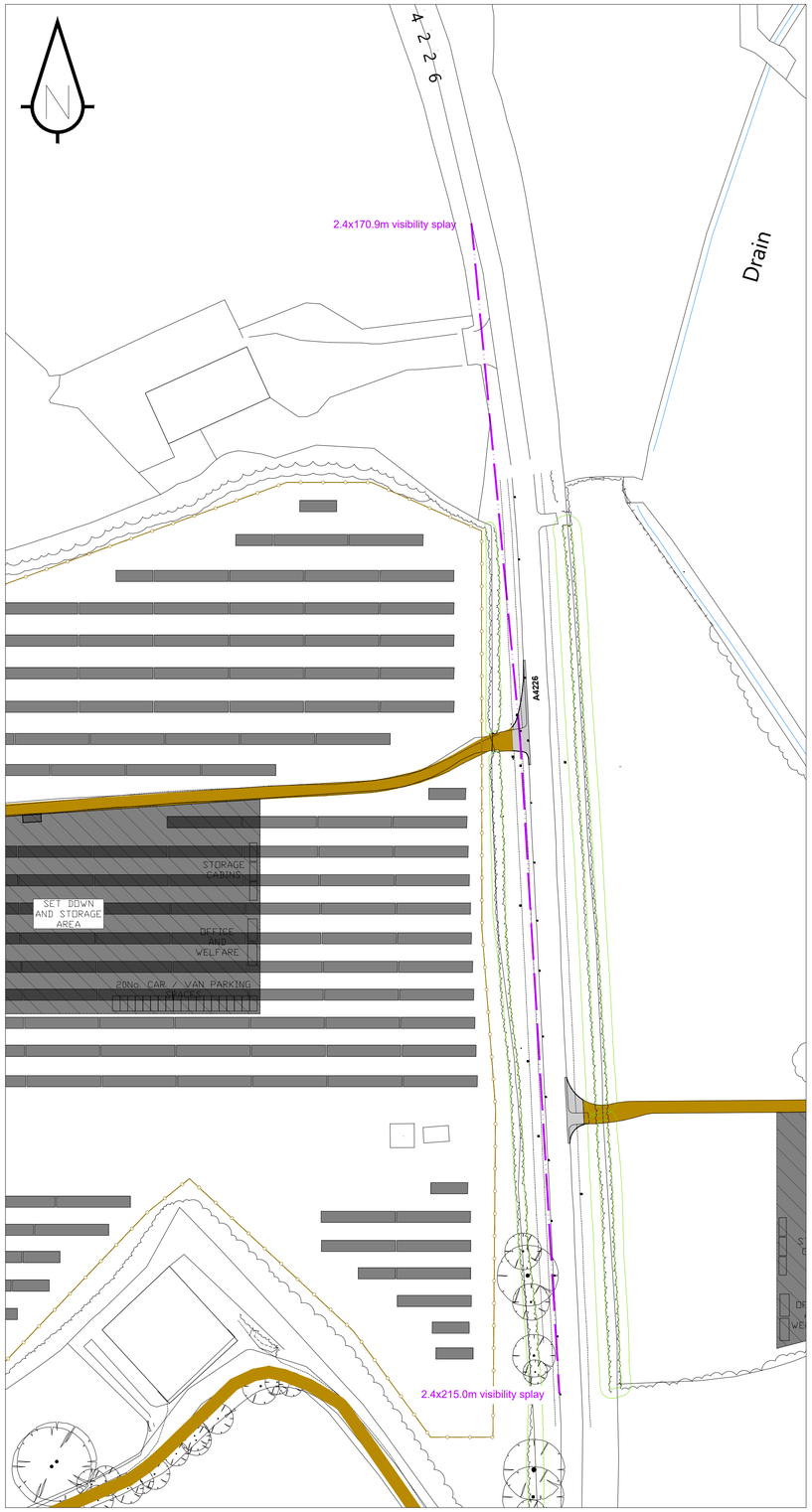

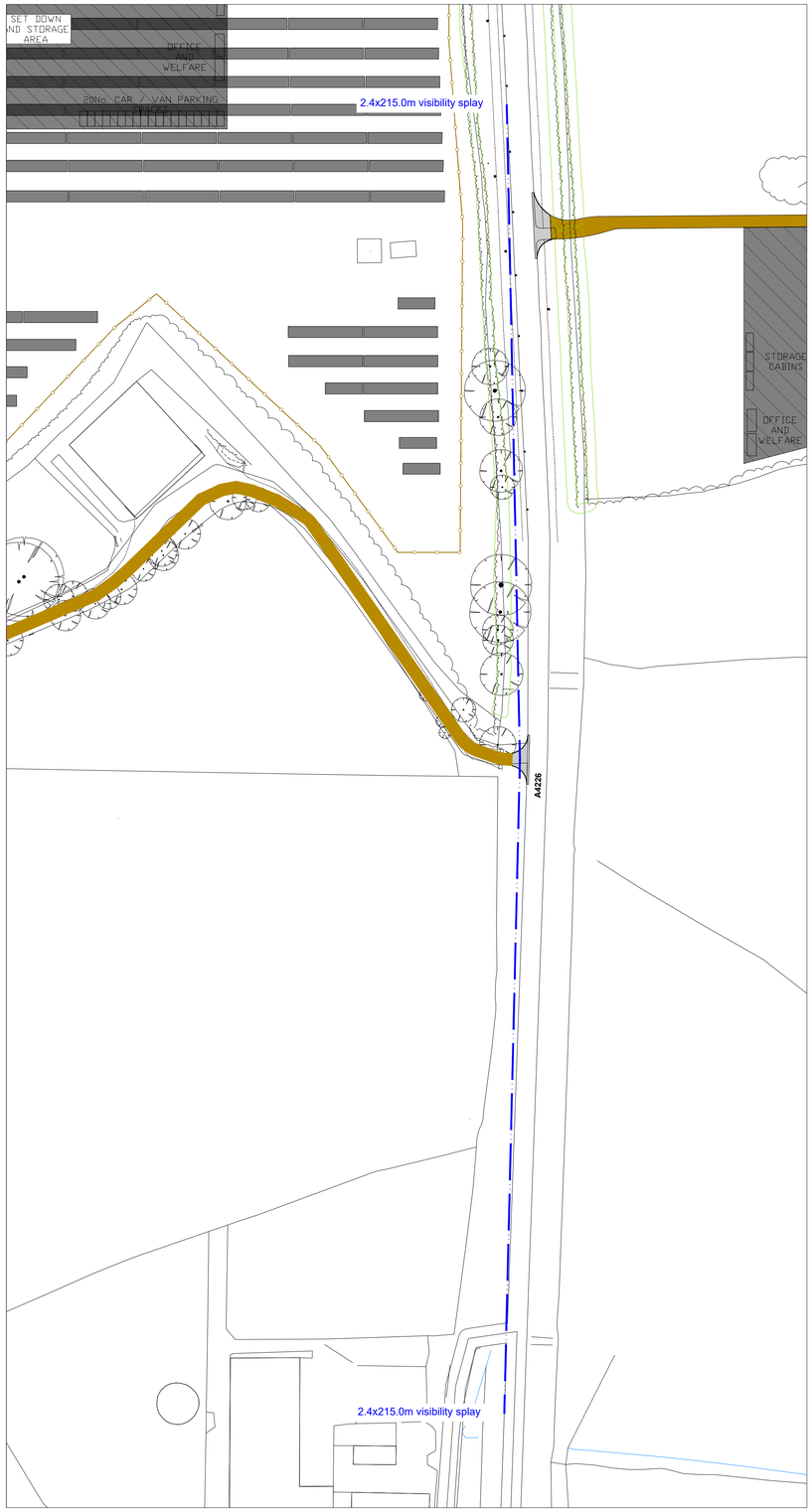

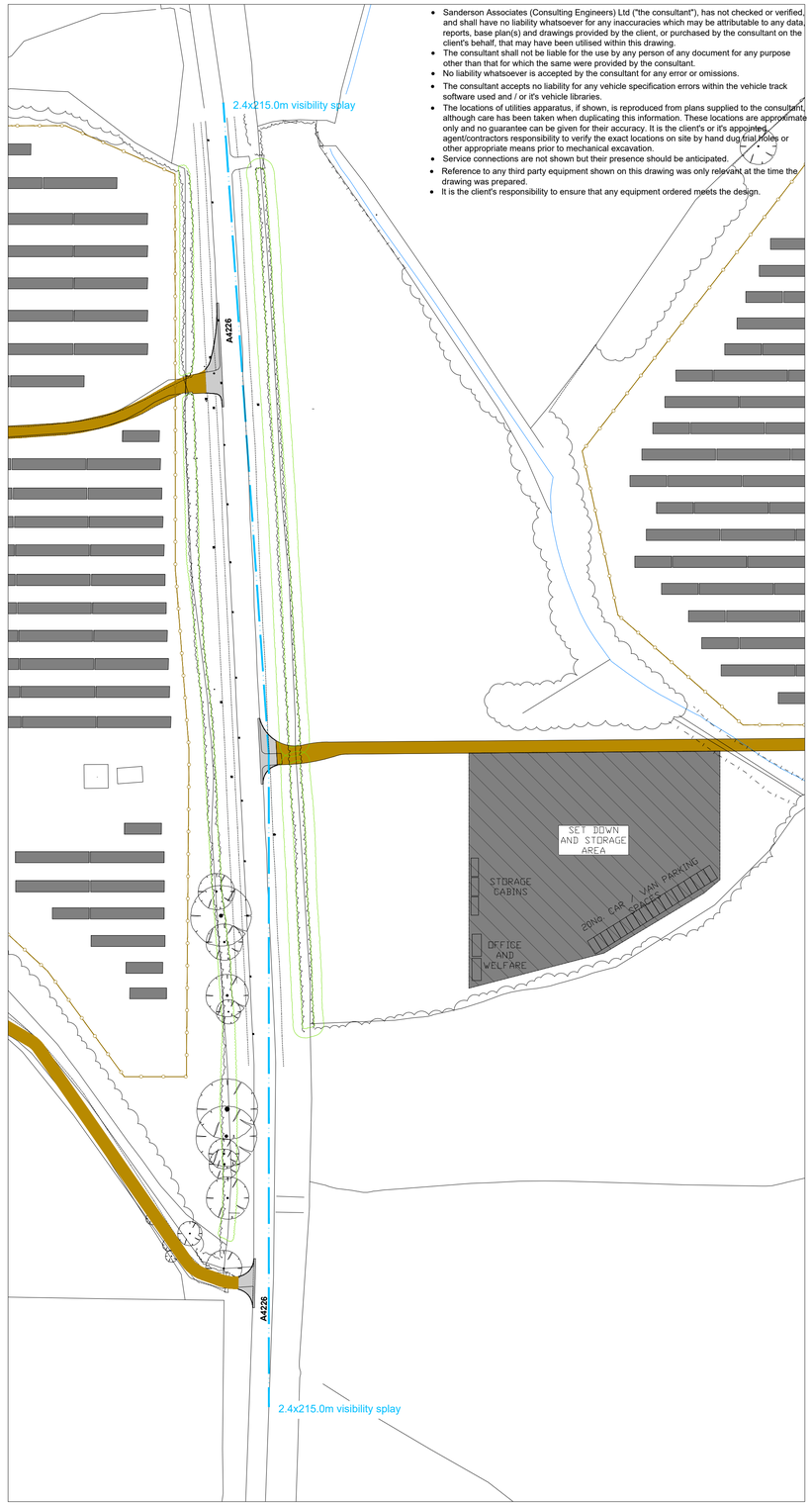

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- The consultant shall not be liable for the use by any person of any document for any purpose other than that for which the same were provided by the consultant.
- No liability whatsoever is accepted by the consultant for any error or omissions.
- The consultant accepts no liability for any vehicle specification errors within the vehicle track software used and / or it's vehicle libraries.
- The locations of utilities apparatus, if shown, is reproduced from plans supplied to the consultant, although care has been taken when duplicating this information. These locations are approximate only and no guarantee can be given for their accuracy. It is the client's or it's appointed agent/contractors responsibility to verify the exact locations on site by hand dug trial holes or other appropriate means prior to mechanical excavation.
- Service connections are not shown but their presence should be anticipated.
- Reference to any third party equipment shown on this drawing was only relevant at the time the drawing was prepared.
- It is the client's responsibility to ensure that any equipment ordered meets the design.

sanderson associates (consulting engineers) ltd
Highways | Traffic | Transportation | Water
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Client: Sirius Planning Ltd

Project Title: Oaklands Solar Farm and BESS
South of Bonvilston
Vale of Glamorgan

Drawing Title: Visibility Splays

Rev	Amendment	Drawn	Date	Checked

Scale: 1:1000	Drawn By: CP.
Drawing Size: A1	Checked By: KS
Date: August 2022	Approved By: KS
	Drawing Number: 300372-002 / Rev: –

FILE REF:

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APPENDIX B

ATC Data

Site No.	Location.	Direction.	Speed Limit - PSL (mph)	Start Date.	End Date.	Total Vehicles.	5 Day Ave.	7 Day Ave.	No. > Speed Limit.	%. > Speed Limit.	No. > ACPO Limit.	%. > ACPO Limit.	No. > DfT Limit.	%. > DfT Limit.	Mean Speed	85%ile Speed
1	A4226 - Attached to Hedgerow, OSGR: ST 07769 73579	North	60	06 October 2021	12 October 2021	36137	5429	5162	3148	8.7	681	1.9	234	0.6	52.0	57.9
		South	60	06 October 2021	12 October 2021	35834	5410	5119	6234	17.4	1299	3.6	398	1.1	54.0	60.7
		Two Way	60	06 October 2021	12 October 2021	71971	10840	10282	9382	13.0	1980	2.8	632	0.9	53.0	59.4

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

06 October 2021

06 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

07 October 2021

07 October 2021

| Time | Total | Classification | | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

08 October 2021

08 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

09 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

09 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

10 October 2021

10 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

11 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

11 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

Virtual Day (7)

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction North

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count North

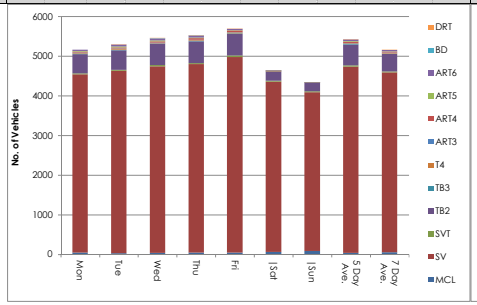
12061 / Cardiff
October 2021
Automatic Traffic Count

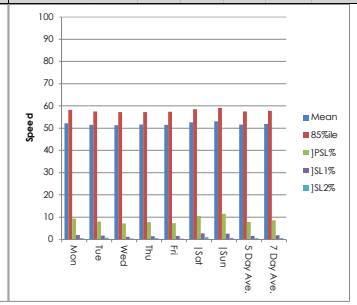
Virtual Week (1)

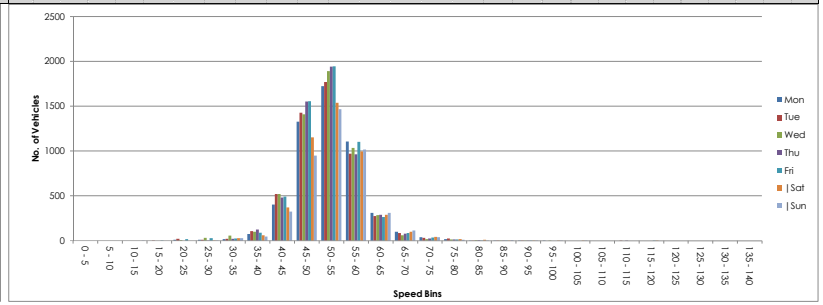
Virtual Week (1)

Time	Total	Classification												JPSL	JPSL%	JSL1	JSL1%	JSL2	JSL2%	Mean	Vpp	Speed Bins (mph)																															
		1 MCL	2 SV	3 SVT	4 TB2	5 TB3	6 T4	7 ART3	8 ART4	9 ART5	10 ART6	11 BD	12 DRT	60	60	68 ACPO	68 ACPO	75 DfT	75 DfT		85	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 - 90	90 - 95	95 - 100	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135	135 - 140
Mon	5173	49	4500	19	492	14	11	9	30	12	37	0	0	485	9.4	103	2.0	31	0.6	52.3	58.3	0	0	0	0	12	14	19	75	404	1329	1726	1109	312	102	40	18	4	4	2	3	0	0	0	0	0	0	0	0
Tue	5302	40	4593	26	494	18	21	9	28	21	51	0	1	432	8.1	95	1.8	36	0.7	51.6	57.6	0	0	0	2	24	14	23	107	524	1431	1773	972	277	86	33	25	5	1	4	0	0	0	1	0	0	0	0	0
Wed	5458	44	4706	30	540	10	12	5	34	21	53	1	2	396	7.3	65	1.2	28	0.5	51.4	57.3	0	0	0	0	7	32	59	101	523	1410	1892	1038	286	63	19	16	8	1	2	1	0	0	0	0	0	0	0	0
Thu	5523	50	4757	23	549	16	20	6	36	19	45	1	1	428	7.7	83	1.5	32	0.6	51.7	57.3	0	0	0	0	0	1	22	125	484	1554	1944	965	291	80	25	16	8	5	2	0	0	0	1	0	0	0	0	0
Fri	5691	51	4936	35	544	16	23	8	37	14	26	0	1	417	7.3	94	1.7	27	0.5	51.6	57.4	0	0	0	1	19	31	27	91	495	1559	1948	1103	266	86	38	15	5	4	2	0	0	0	0	1	0	0	0	0
Sat	4640	67	4298	20	236	3	10	2	2	1	1	0	0	486	10.5	129	2.8	47	1.0	52.7	58.6	0	0	0	0	0	2	30	61	372	1153	1540	996	292	102	45	21	13	5	2	3	2	0	0	1	0	0	0	0	0
Sun	4350	96	4001	24	208	6	4	1	5	2	3	0	0	504	11.6	112	2.6	33	0.8	53.1	59.1	0	0	1	0	0	4	30	48	325	951	1469	1018	313	117	41	14	5	7	3	1	3	0	0	0	0	0	0	0	0
5 Day Ave.	**5429**	**47**	**4698**	**27**	**524**	**15**	**17**	**7**	**33**	**17**	**42**	**0**	**1**	**432**	**8.0**	**88**	**1.6**	**31**	**0.6**	**51.7**	**57.6**	**0**	**0**	**0**	**1**	**12**	**18**	**30**	**100**	**486**	**1457**	**1857**	**1037**	**286**	**83**	**31**	**18**	**6**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
7 Day Ave.	**5162**	**57**	**4542**	**25**	**438**	**12**	**14**	**6**	**25**	**13**	**31**	**0**	**1**	**450**	**8.7**	**97**	**1.9**	**33**	**0.6**	**52.0**	**57.9**	**0**	**0**	**0**	**0**	**9**	**14**	**30**	**87**	**447**	**1341**	**1756**	**1029**	**291**	**91**	**34**	**18**	**7**	**4**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
--	**36137**	**397**	**31791**	**177**	**3063**	**83**	**101**	**40**	**172**	**90**	**216**	**2**	**5**	**3148**	**8.7**	**681**	**1.9**	**234**	**0.6**	**52.0**	**57.9**	**0**	**0**	**1**	**3**	**62**	**98**	**210**	**608**	**3127**	**9387**	**12292**	**7201**	**2037**	**636**	**241**	**125**	**48**	**27**	**17**	**8**	**5**	**0**	**2**	**2**	**0**	**0**	**0**	**0**

Summary Graphs







Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

06 October 2021

06 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

07 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

07 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

08 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

08 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

09 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

09 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

10 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

11 October 2021

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

11 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

12061 / Cardiff
October 2021
Automatic Traffic Count

12 October 2021

12 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 1
Location A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Direction South

12061 / Cardiff 1
October 2021 A4226 - Attached to hedgerow, OSGR: ST 07769 73579
Automatic Traffic Count South

12061 / Cardiff
October 2021
Automatic Traffic Count

Virtual Day (7)

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

| Time | Total | Classification | | | | | | | | | | | |]PSL |]PSL% |]SL1 |]SL1% |]SL2 |]SL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site No.	Location.	Direction.	Speed Limit - PSL (mph)	Start Date.	End Date.	Total Vehicles.	5 Day Ave.	7 Day Ave.	No. > Speed Limit.	%. > Speed Limit.	No. > ACPO Limit.	%. > ACPO Limit.	No. > DfT Limit.	%. > DfT Limit.	Mean Speed	85%ile Speed
2	A4226 - Attached to Fence, OSGR: ST 07800 72793	North	60	06 October 2021	12 October 2021	36522	5511	5217	5358	14.7	1312	3.6	506	1.4	53.5	59.9
		South	60	06 October 2021	12 October 2021	35702	5387	5100	9885	27.7	2833	7.9	1055	3.0	56.7	63.9
		Two Way	60	06 October 2021	12 October 2021	72224	10898	10318	15243	21.1	4145	5.7	1561	2.2	55.1	62.0

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

06 October 2021

06 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

07 October 2021

07 October 2021

| Time | Total | Classification | | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

08 October 2021 **08 October 2021**

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

09 October 2021

09 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

10 October 2021

10 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

11 October 2021

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

11 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

12 October 2021

12 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction North

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count North

12061 / Cardiff
October 2021
Automatic Traffic Count

Virtual Day (7)

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Virtual Week (1)

Virtual Week (1)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

06 October 2021

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

06 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

12061 / Cardiff
October 2021
Automatic Traffic Count

07 October 2021

07 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

08 October 2021

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

08 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

09 October 2021

09 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

10 October 2021

10 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

11 October 2021

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

11 October 2021

12061 / Cardiff
October 2021
Automatic Traffic Count

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

12 October 2021

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

12061 / Cardiff
October 2021
Automatic Traffic Count

Virtual Day (7)

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

Site 2
Location A4226 - Attached to Fence, OSGR: ST 07800 72793
Direction South

12061 / Cardiff 2
October 2021 A4226 - Attached to Fence, OSGR: ST 07800 72793
Automatic Traffic Count South

12061 / Cardiff
October 2021
Automatic Traffic Count

Virtual Week (1)

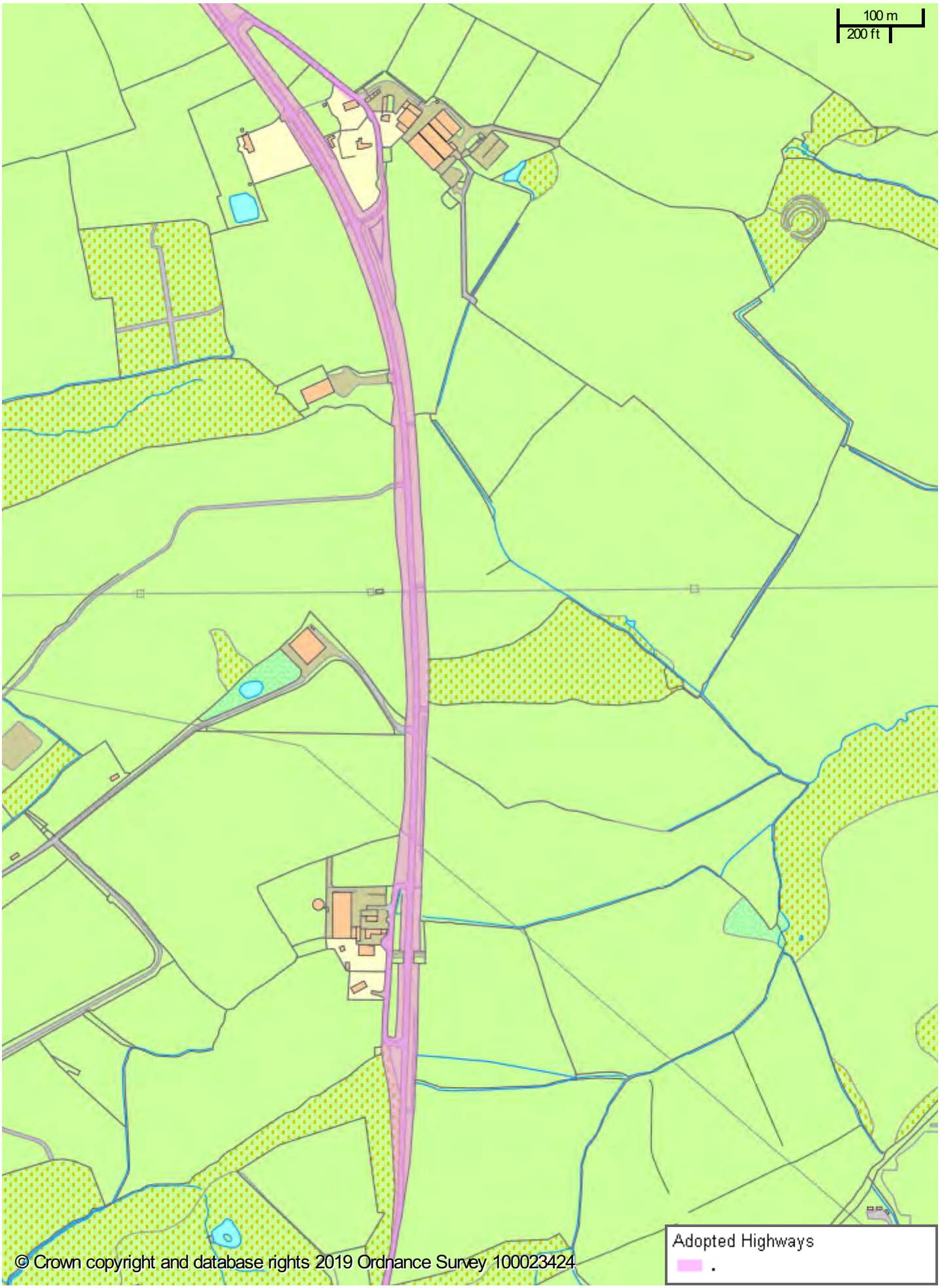
Virtual Week (1)

| Time | Total | Classification | | | | | | | | | | | | JPSL | JPSL% | JSL1 | JSL1% | JSL2 | JSL2% | Mean | Vpp | Speed Bins (mph) | | | | | | | | | | | |

APPENDIX C

Highway Adoption Records

Drawing 300372-002 Site Access Visibility Splays



StaffnetGIS printing
Scale: 1:6000
Printed on: 4/3/2022 at 7:38 AM

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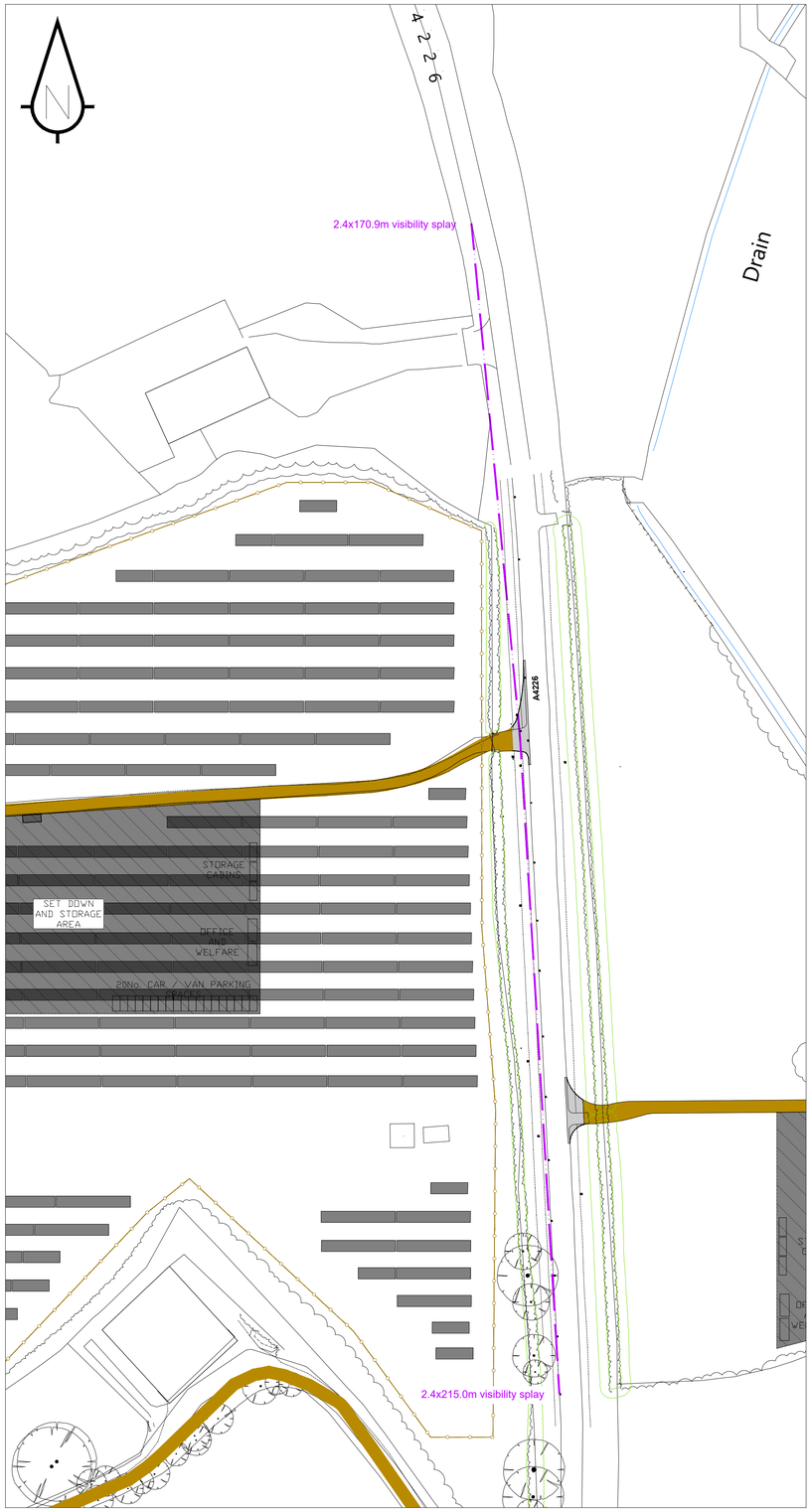

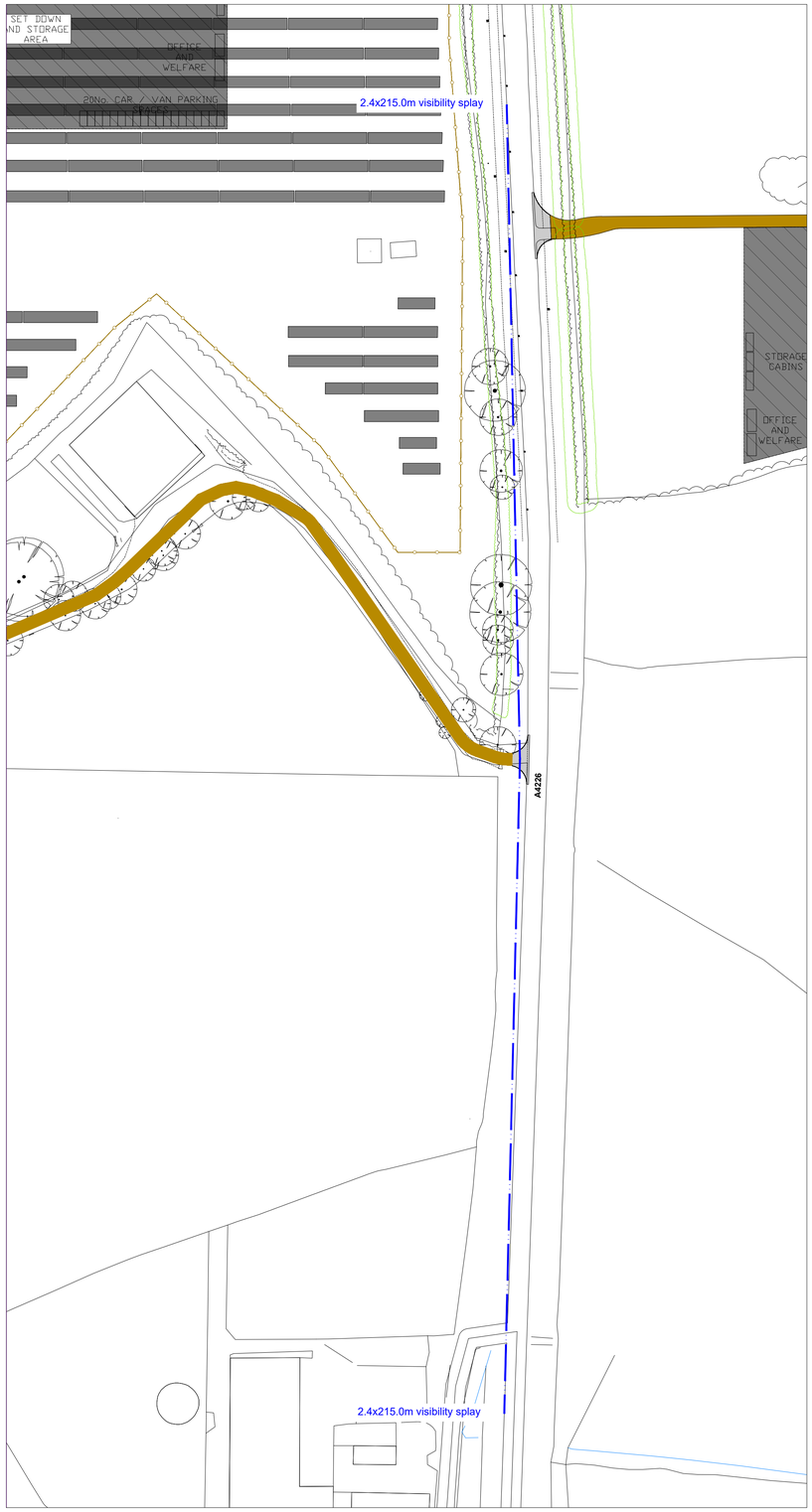

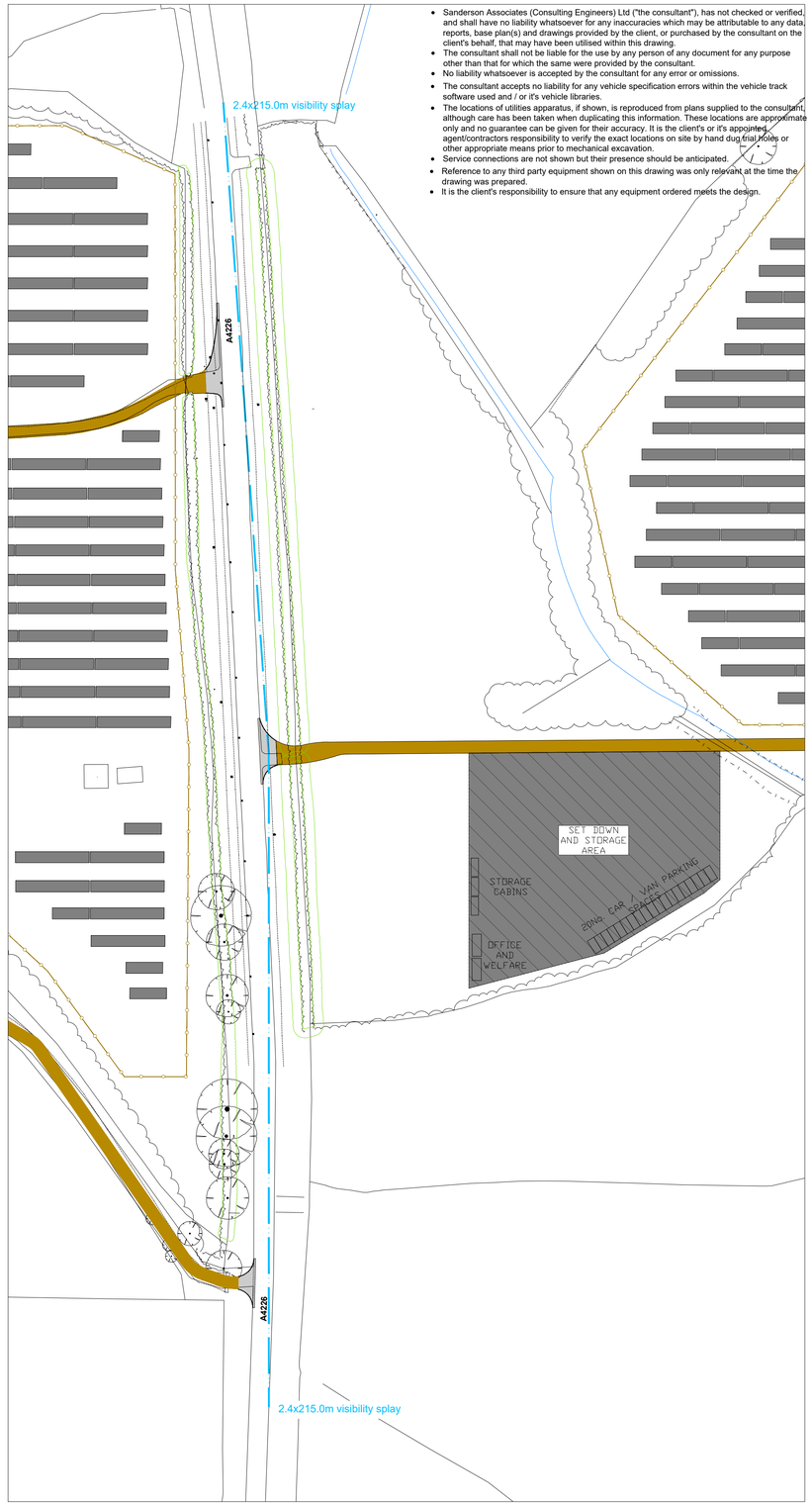

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- Service connections are not shown but their presence should be anticipated.
- Reference to any third party equipment shown on this drawing was only relevant at the time the drawing was prepared.
- It is the client's responsibility to ensure that any equipment ordered meets the design.

sanderson associates (consulting engineers) ltd
Highways | Traffic | Transportation | Water
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Client: Sirius Planning Ltd

Project Title: Oaklands Solar Farm and BESS
South of Bonvilston
Vale of Glamorgan

Drawing Title: Visibility Splays

Rev	Amendment	Drawn	Date	Checked

Scale: 1:1000	Drawn By: CP.
Drawing Size: A1	Checked By: KS
Date: August 2022	Approved By: KS
	Drawing Number: 300372-002 / Rev: –

FILE REF:

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APPENDIX D

Crashmap Personal Injury Collision Records

Crash Report

Area of Interest (AOI) Information

Area : 128,532.29 m²

Mar 28 2022 11:54:15 British Summer Time

Summary

Name	Count	Area(m²)	Length(m)
Crashes	3	N/A	N/A

Crashes

#	Carriageway_Hazards	Severity	Officer_Attended	Accident_DateTime	Year	Number_of_vehicles	Number_of_casualties	Easting
1	None	Slight	Police officer attended crash scene	January 10, 2017	2017	2	1	307413
2	None	Slight	Police officer attended crash scene	April 30, 2018	2018	2	1	307407
3	None	Slight	Police officer attended crash scene	April 9, 2018	2018	2	3	307806

#	Northing	Highway_Authority	Road_Number	Weather_conditions	Road_Type	Road_surface	Speed_Limit	Light_conditions
1	174148	The Vale of Glamorgan	A48	Fine without high winds	Dual carriageway	Dry	50	Daylight: regardless of presence of streetlights
2	174147	The Vale of Glamorgan	A48	Fine without high winds	Dual carriageway	Dry	40	Daylight: regardless of presence of streetlights
3	173160	The Vale of Glamorgan	A4226	Raining without high winds	Single carriageway	Wet or Damp	60	Daylight: regardless of presence of streetlights

#	Junction_detail	Pedestrian_Crossing	Involved_pedalcycle	Involved_Motorcycle	Pedestrian_casualty	Child_casualty	Pedal_cycleuser_casualty	Motorcycle_user_casualty
1	T or staggered junction	No physical crossing facility within 50 metres	0	0	0	0	0	0
2	T or staggered junction	Pedestrian phase at traffic signal junction	0	0	0	0	0	0
3	Not at or within 20 metres of junction	No physical crossing facility within 50 metres	0	0	0	0	0	0

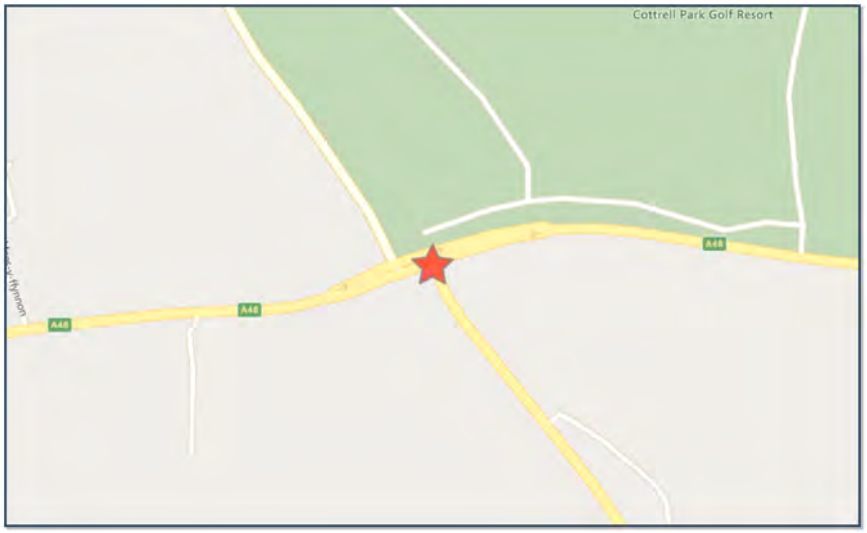
#	Involved_car	Involved_goodsvehicle	Involved_Bus	Involved_young_driver	Local_Authority_District	Junction_control	Is_Provisional	Is_Amended	Web_Link	Count
1	0	1	0	0	Vale of Glamorgan	Auto traffic signal	No	No	https://www.crashmap.co.uk/reports/prorepportservice?reportId=2017621700067	1
2	1	0	0	0	Vale of Glamorgan	Auto traffic signal	No	No	https://www.crashmap.co.uk/reports/prorepportservice?reportId=2018621800782	1
3	1	0	0	0	Vale of Glamorgan	Not Applicable	No	No	https://www.crashmap.co.uk/reports/prorepportservice?reportId=2018621800349	1

crashmap.co.uk

Validated Data

Crash Date:	Tuesday, January 10, 2017	**Time of Crash:**	12:30:00 PM	**Crash Reference:**	**2017621700067**

Highest Injury Severity:	Slight	**Road Number:**	A48	**Number of Casualties:**	1
Highway Authority:	The Vale of Glamorgan			**Number of Vehicles:**	2
Local Authority:	Vale of Glamorgan			**OS Grid Reference:**	307413 174148
Weather Description:	Fine without high winds				
Road Surface Description:	Dry				
Speed Limit:	50				
Light Conditions:	Daylight: regardless of presence of streetlights				
Carriageway Hazards:	None				
Junction Detail:	T or staggered junction				
Junction Pedestrian Crossing:	No physical crossing facility within 50 metres				
Road Type:	Dual carriageway				
Junction Control:	Auto traffic signal				



For more information about the data please visit: *www.crashmap.co.uk/home/Faq*
To subscribe to unlimited reports using CrashMap Pro visit *www.crashmap.co.uk/Home/Premium_Services*

powered by agilysis

Validated Data

Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	Driver Age Band	Vehicle Maneouvre	First Point of Impact	Journey Purpose	Hit Object - On Carriageway	Hit Object - Off Carriageway
1	Goods vehicle 7.5 tonnes mgw and over	9	Male	56 - 65	Vehicle proceeding normally along the carriageway, not on a bend	Front	Journey as part of work	None	None
2	Goods vehicle 7.5 tonnes mgw and over	4	Male	56 - 65	Vehicle is in the act of turning left	Offside	Journey as part of work	None	None

Casualties

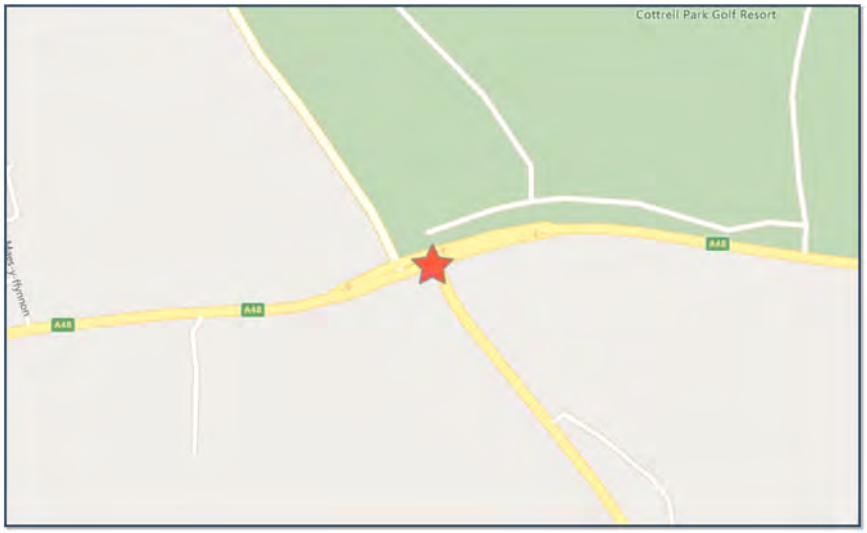
Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
2	2	Slight	Driver or rider	Male	56 - 65	Unknown or other	Unknown or other

crashmap.co.uk

Validated Data

Crash Date:	Monday, April 30, 2018	**Time of Crash:**	12:48:00 PM	**Crash Reference:**	**2018621800782**

Highest Injury Severity:	Slight	**Road Number:**	A48	**Number of Casualties:**	1
Highway Authority:	The Vale of Glamorgan			**Number of Vehicles:**	2
Local Authority:	Vale of Glamorgan			**OS Grid Reference:**	307407 174147
Weather Description:	Fine without high winds				
Road Surface Description:	Dry				
Speed Limit:	40				
Light Conditions:	Daylight: regardless of presence of streetlights				
Carriageway Hazards:	None				
Junction Detail:	T or staggered junction				
Junction Pedestrian Crossing:	Pedestrian phase at traffic signal junction				
Road Type:	Dual carriageway				
Junction Control:	Auto traffic signal				



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Validated Data

Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	Driver Age Band	Vehicle Maneouvre	First Point of Impact	Journey Purpose	Hit Object - On Carriageway	Hit Object - Off Carriageway
1	Car (excluding private hire)	5	Female	Over 75	Vehicle proceeding normally along the carriageway, not on a bend	Front	Unknown	None	Lamp post
2	Car (excluding private hire)	3	Male	46 - 55	Vehicle is in the act of turning left	Front	Journey as part of work	None	None

Casualties

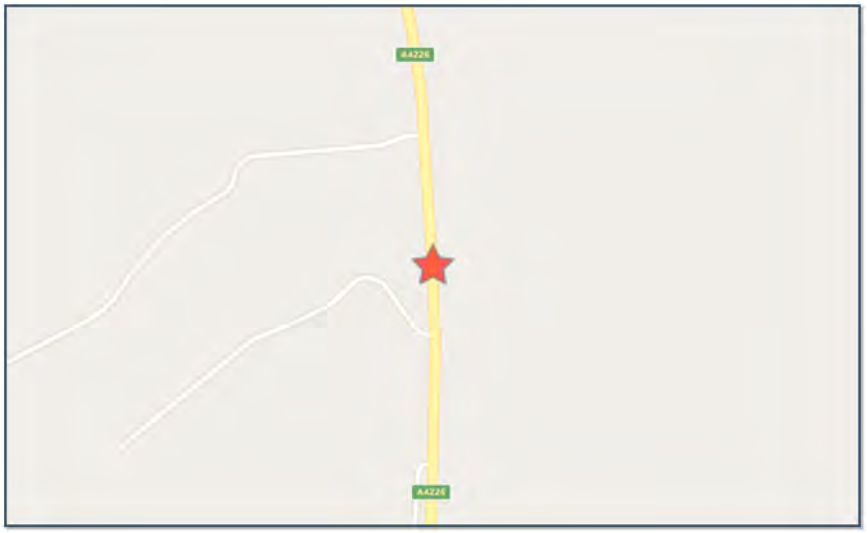
Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
1	1	Slight	Driver or rider	Female	Over 75	Unknown or other	Unknown or other

crashmap.co.uk

Validated Data

Crash Date:	Monday, April 09, 2018	**Time of Crash:**	5:01:00 PM	**Crash Reference:**	**2018621800349**

Highest Injury Severity:	Slight	**Road Number:**	A4226	**Number of Casualties:**	3
Highway Authority:	The Vale of Glamorgan			**Number of Vehicles:**	2
Local Authority:	Vale of Glamorgan			**OS Grid Reference:**	307806 173160
Weather Description:	Raining without high winds				
Road Surface Description:	Wet or Damp				
Speed Limit:	60				
Light Conditions:	Daylight: regardless of presence of streetlights				
Carriageway Hazards:	None				
Junction Detail:	Not at or within 20 metres of junction				
Junction Pedestrian Crossing:	No physical crossing facility within 50 metres				
Road Type:	Single carriageway				
Junction Control:	Not Applicable				



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Validated Data

Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	Driver Age Band	Vehicle Maneouvre	First Point of Impact	Journey Purpose	Hit Object - On Carriageway	Hit Object - Off Carriageway
1	Car (excluding private hire)	1	Female	56 - 65	Vehicle proceeding normally along the carriageway, not on a bend	Front	Commuting to/from work	None	None
2	Car (excluding private hire)	6	Male	36 - 45	Vehicle proceeding normally along the carriageway, not on a bend	Front	Unknown	None	None

Casualties

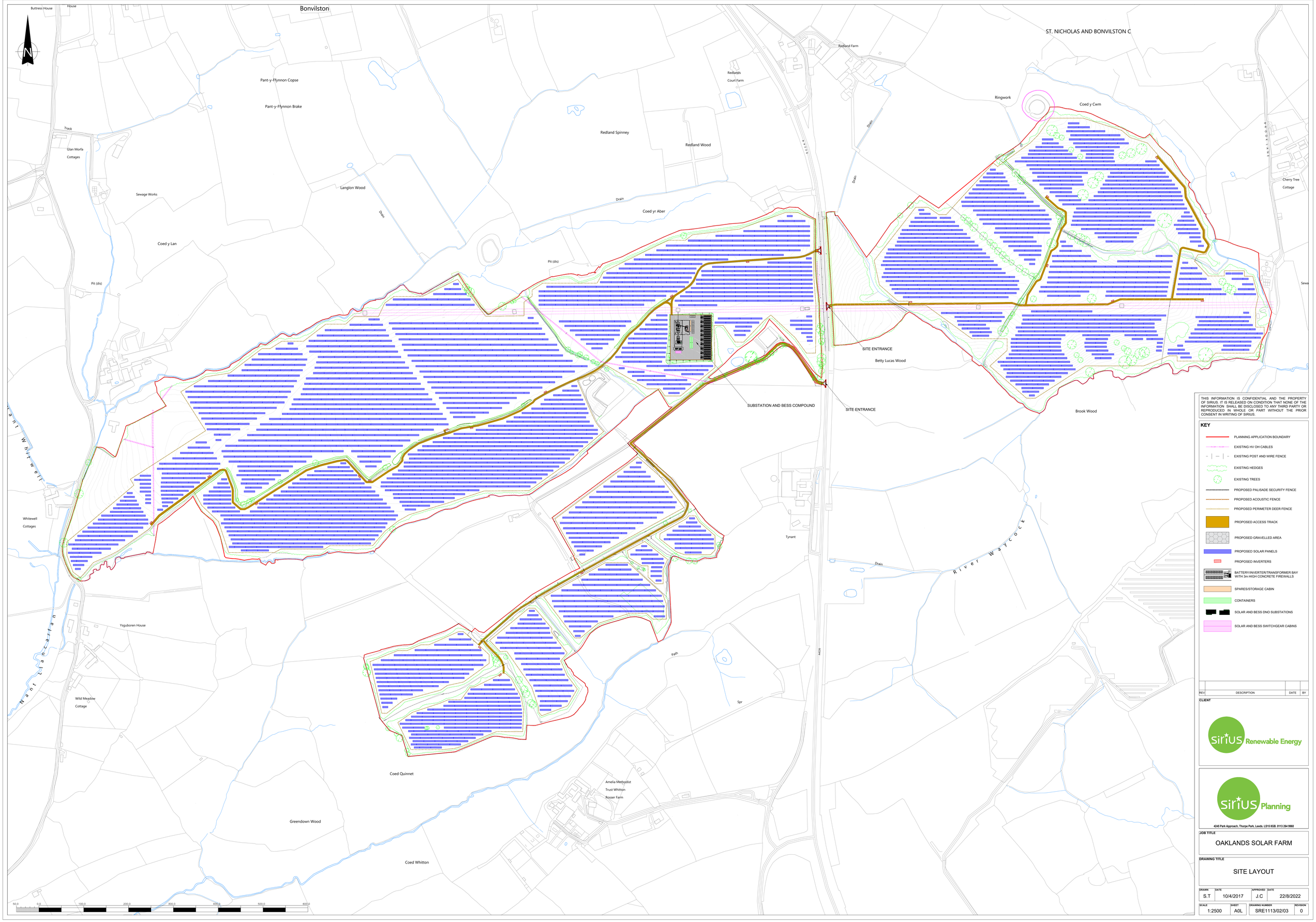
Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
1	1	Slight	Driver or rider	Female	56 - 65	Unknown or other	Unknown or other
2	2	Slight	Driver or rider	Male	36 - 45	Unknown or other	Unknown or other
2	3	Slight	Vehicle or pillion passenger	Female	66 - 75	Unknown or other	Unknown or other

APPENDIX E

Site Layout Plan

Proposed set down and parking areas

Site Access Details Plan



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KEY

- PLANNING APPLICATION BOUNDARY
- EXISTING HV OH CABLES
- EXISTING POST AND WIRE FENCE
- EXISTING HEDGES
- EXISTING TREES
- PROPOSED PALISADE SECURITY FENCE
- PROPOSED ACOUSTIC FENCE
- PROPOSED PERIMETER DEER FENCE
- PROPOSED ACCESS TRACK
- PROPOSED GRAVELLED AREA
- PROPOSED SOLAR PANELS
- PROPOSED INVERTERS
- BATTERY/INVERTER/TRANSFORMER BAY WITH 3m HIGH CONCRETE FIREWALLS
- SPARES/STORAGE CABIN
- CONTAINERS
- SOLAR AND BESS DNO SUBSTATIONS
- SOLAR AND BESS SWITCHGEAR CABINS

REV	DESCRIPTION	DATE	BY

CLIENT

Sirius Renewable Energy

Sirius Planning
4245 Park Approach, Thorpe Park, Leeds. LS15 8GB. 0113 264 9960

JOB TITLE

OAKLANDS SOLAR FARM

DRAWING TITLE

SITE LAYOUT

DRAWN	DATE	APPROVED	DATE
S.T	10/4/2017	J.C	22/8/2022

SCALE	SHEET	DRAWING NUMBER	REVISION
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KEY

STORAGE CABINS

SET DOWN AND STORAGE AREA

OFFICE AND WELFARE

20No. CAR / VAN PARKING SPACES

REV	DESCRIPTION	DATE	BY

CLIENT

sirius Renewable Energy

sirius Planning

Russel House, Mill Road, Langley Moor, Durham. DH7 8HJ. 0191 378 9972

JOB TITLE

OAKLANDS SOLAR FARM

DRAWING TITLE

TEMPORARY SITE SET DOWN AREA DETAILS

DRAWN	DATE	APPROVED	DATE
S.T	26/8/2022	J.C	26/8/2022

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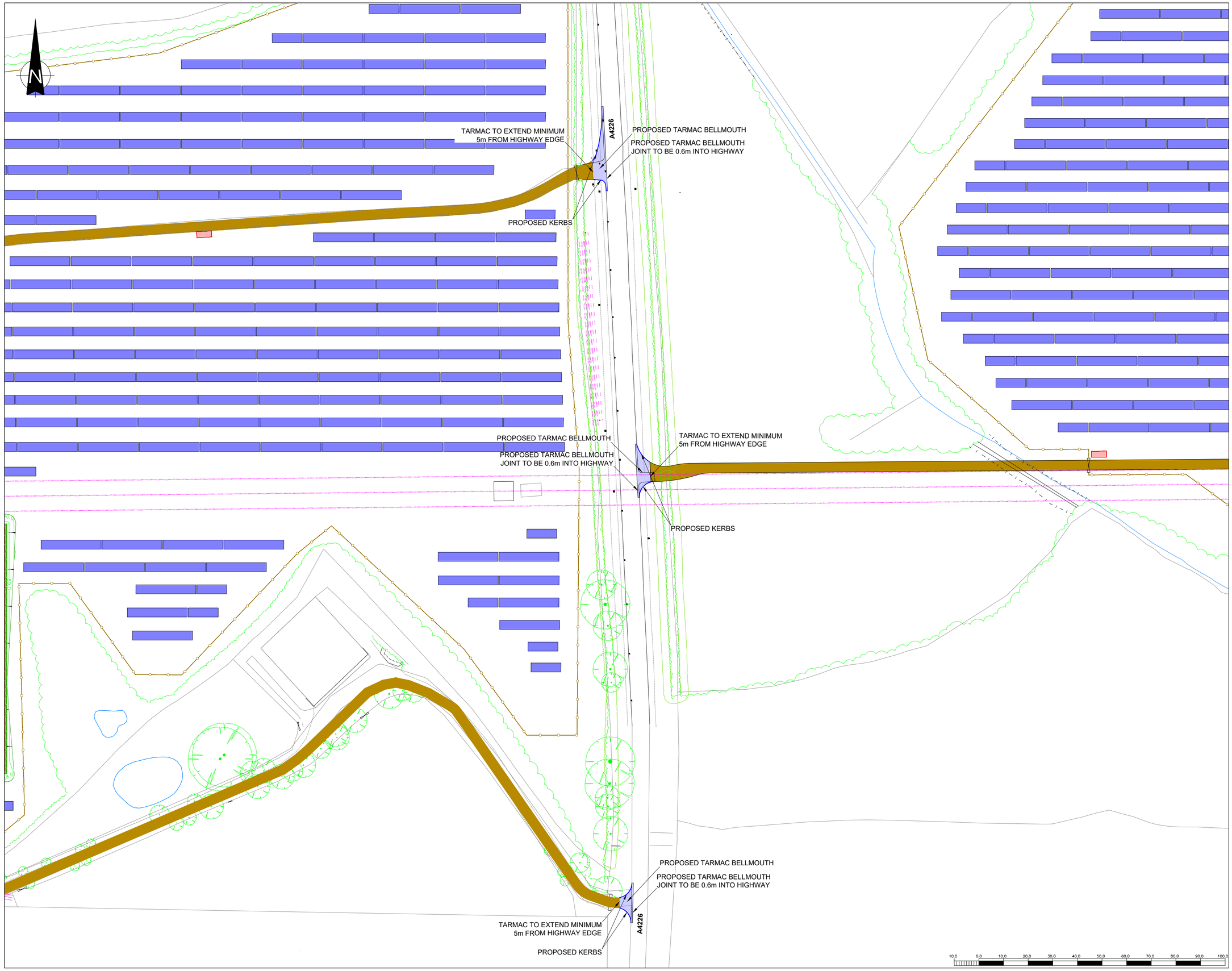

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KEY

- EXISTING HV OH CABLES
- EXISTING HEDGES
- EXISTING TREES
- PROPOSED ACCESS TRACK
- PROPOSED SOLAR PANELS
- PROPOSED INVERTERS

REV	DESCRIPTION	DATE	BY

CLIENT

SIRIUS Renewable Energy

SIRIUS Planning
Russel House, Mill Road, Langley Moor, Durham. DH7 8HJ. 0191 378 9972

JOB TITLE

OAKLANDS SOLAR FARM

DRAWING TITLE

SITE ACCESS DETAILS

DRAWN	DATE	APPROVED	DATE
S.T	24/8/2022	J.C	24/8/2022

SCALE	SHEET	DRAWING NUMBER	REVISION
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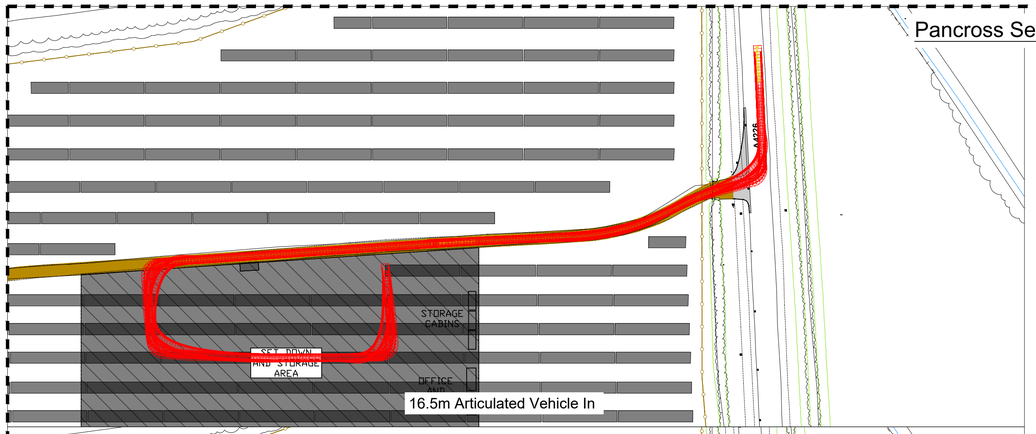
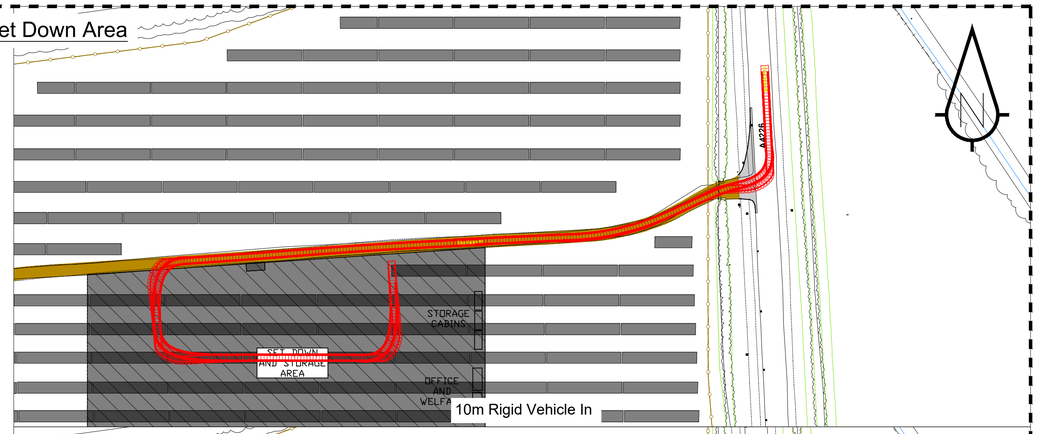
APPENDIX F

Drawing 300372-003 Swept Path Analysis

Pancross Set Down Area



16.5m Articulated Vehicle In



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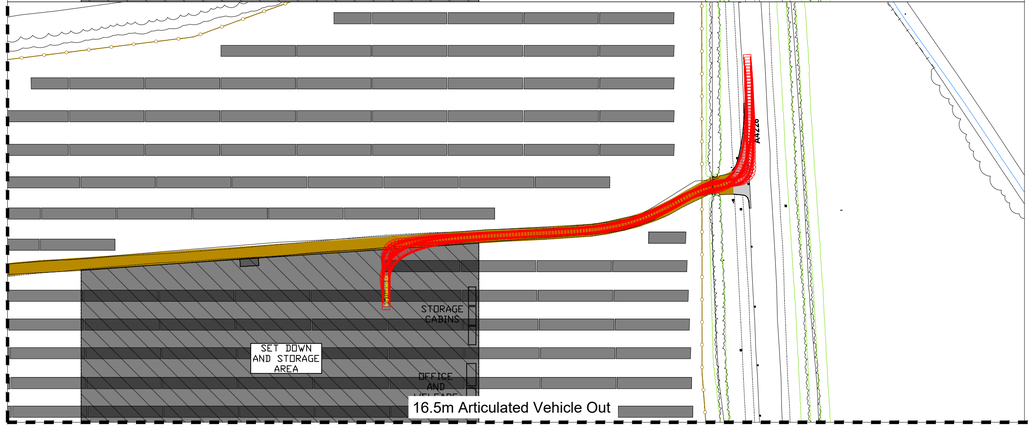

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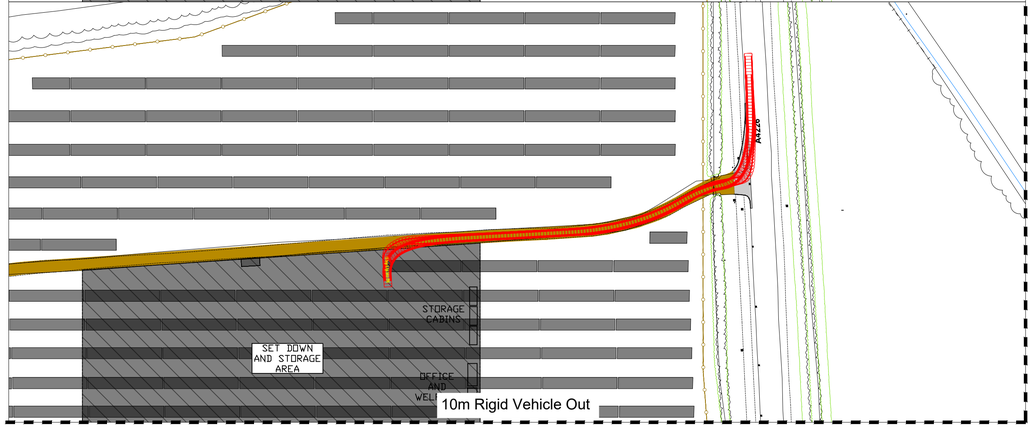
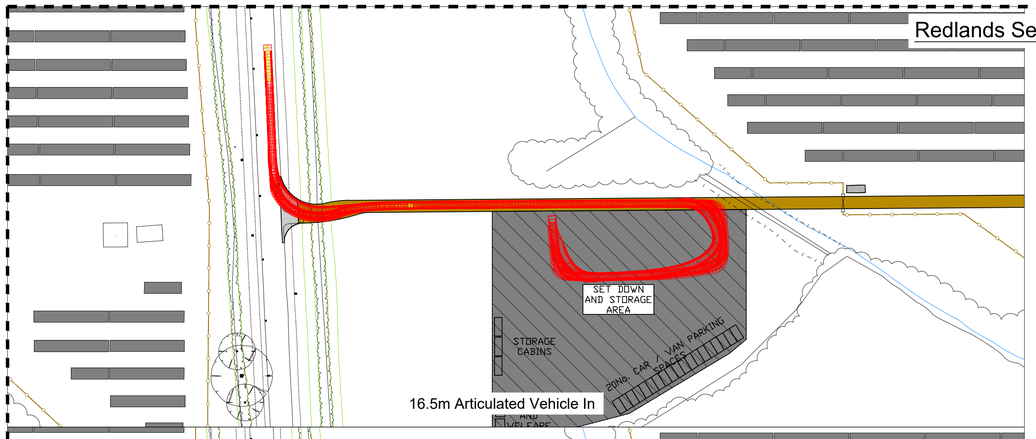


10m Rigid Vehicle Out

Redlands Set Down Area



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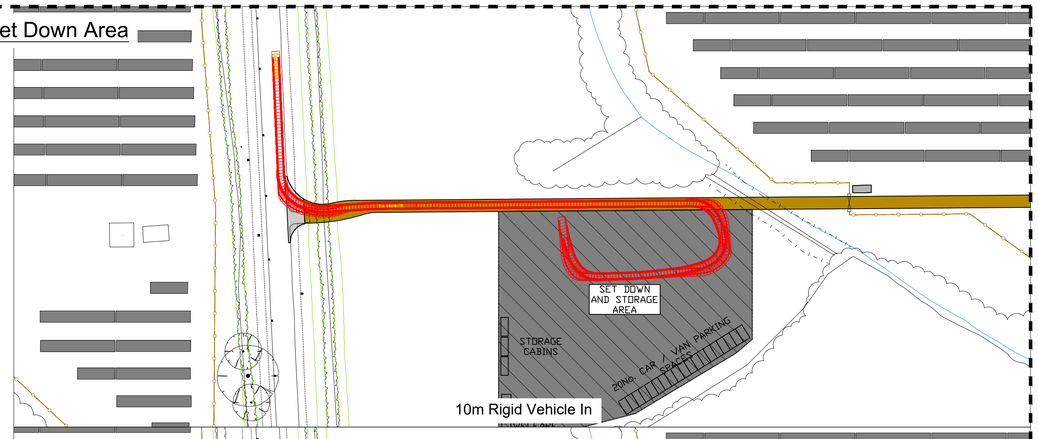

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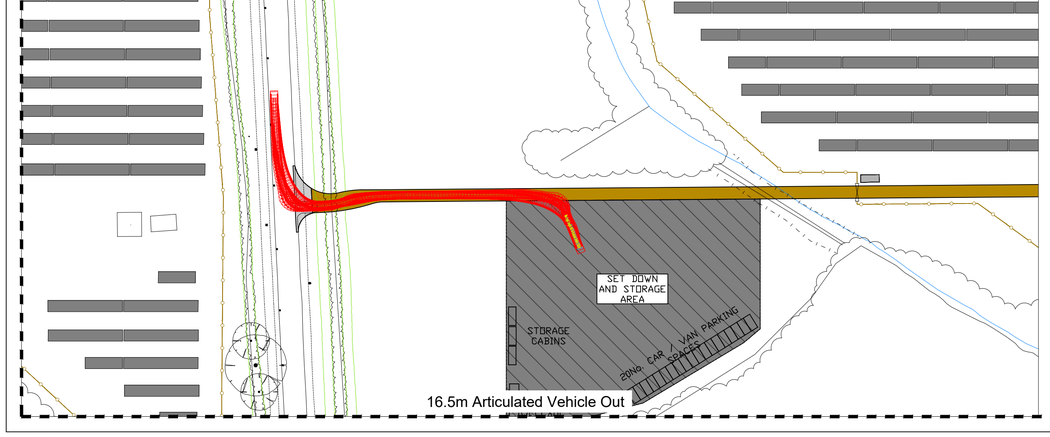

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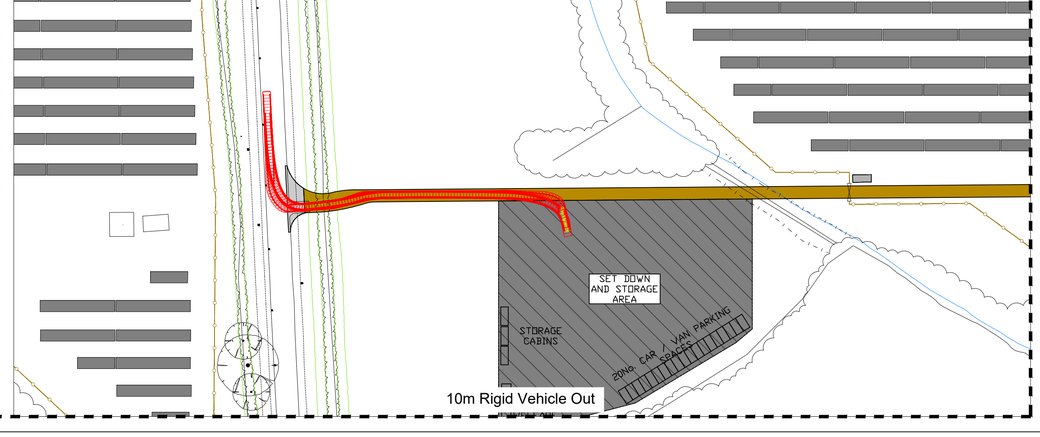

10m Rigid Vehicle Out

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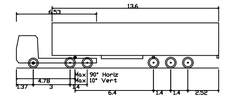
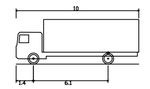
- No liability whatsoever is accepted by the consultant for any error or omissions.
- The consultant accepts no liability for any vehicle specification errors within the vehicle track software used and / or it's vehicle libraries.
- The locations of utilities apparatus, if shown, is reproduced from plans supplied to the consultant, although care has been taken when duplicating this information. These locations are approximate only and no guarantee can be given for their accuracy. It is the client's or it's appointed agent/contractors responsibility to verify the exact locations on site by hand dug trial holes or other appropriate means prior to mechanical excavation.
- Service connections are not shown but their presence should be anticipated.
- Reference to any third party equipment shown on this drawing was only relevant at the time the drawing was prepared.
- It is the client's responsibility to ensure that any equipment ordered meets the design.



Max Legal Length (UK) Articulated Vehicle (16.5m)

Overall Length	16.500m
Overall Width	2.550m
Overall Body Height	3.581m
Min Body Ground Clearance	0.411m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.530m



FTA Design HG Rigid Vehicle (1998)

Overall Length	10.000m
Overall Width	2.500m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

Rev	Amendment	Drawn	Date	Checked

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Client

Sirius Planning Ltd

Project Title

Oaklands Solar Farm and BESS
South of Bonvilston
Vale of Glamorgan

Drawing Title

Swept Path Analysis

Scale: 1:1000	Drawn By: CP
Drawing Size: A1	Checked By: KS
Date: August 2022	Approved By: KS
	Drawing Number: 300372-003
	Rev: –

FILE REF:

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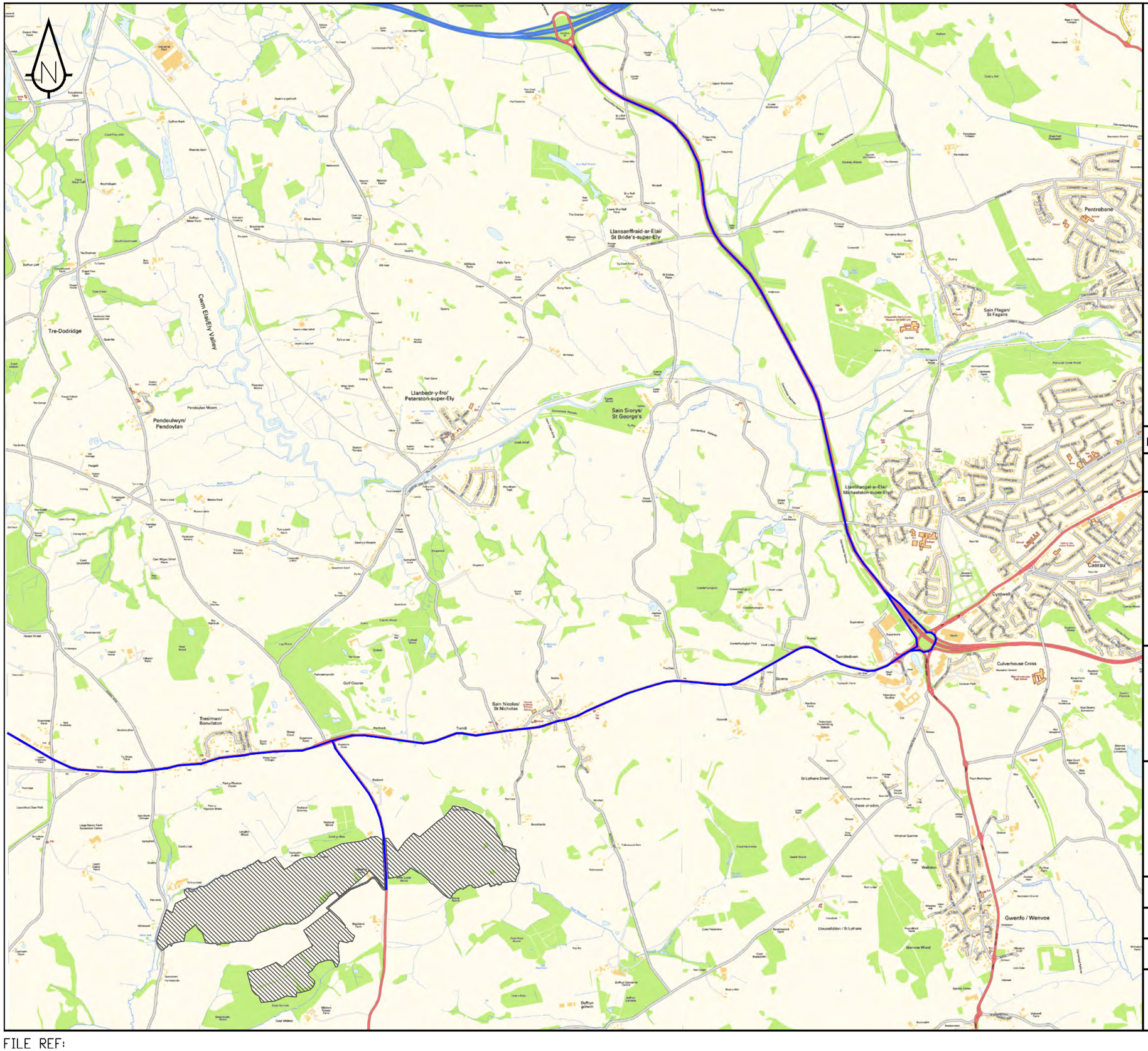
APPENDIX G

Drawing 300372-004 Vehicle Routes



KEY

Proposed Development Site

Vehicle Routes

Rev	Amendment	Drawn	Date	Checked

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Project Name

Oaklands Solar Farm and BESS
South of Bonvilston
Vale of Glamorgan

Drawing Title

Vehicle Routes

Scale NTS		Drawn By	CP
Drawing Size	A3	Checked By	KS
Date	August 2022	Approved By	KS

	Drawing Number	Rev
	300372-004	-

FILE REF:

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