AIMEE THOMPSON
TRANSPORT
PLANNING

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S18 7SB

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06 February 2026

HIGHWAYS NOTE

SITE: PHOENIX LANE, THURNSCOE
SUBJECT: PLANNING APPLICATION FOR NEW ACCESS TO SERVE JSF JOINERY MANUFACTURERS LTD

1.1 attp has been commissioned to prepare a Highways Note and supporting drawings in support of a planning application for a new access to serve an existing business (JSF Joinery Manufacturers Ltd) at Phoenix Lane Industrial Estate in Thurnscoe. The local planning and highways authority is Rotherham Metropolitan Borough Council (RMBC).

1.2 The new purpose built access is required due to planned expansion and re organisation of the site and the existing will remain should the proposed access be approved. The proposed access will be 7.3m wide with 6m radii. The existing and proposed site layout are shown on the drawing attached at **Appendix A**.

1.3 Phoenix Lane, in the vicinity of the proposed site access, is subject to a 30mph speed restriction. As such, according to the guidance set out within the Manual for Streets (MfS), a visibility splay of 2.4x43m is required at the site access. Given Phoenix Lane predominantly serves industrial development we have also considered the requirements set out within the Design Manual for Roads and Bridges (DMRB), which are 2.4mx70m or one step below desirable 2.4mx50m. However. given the proposed access is located close to a 90 degree bend to the north and Phoenix Lanes junction with Barrowfield Road to the south it was expected that actual vehicle speeds would be less that the 30mph posted speed limit.

1.4 As such, as speed survey was undertaken on Tuesday 12th December 2025 in the vicinity of the proposed site access. The results of the survey, a copy of which are attached at **Appendix B**, demonstrate that the actual 85th percentile speeds on Phoenix Lane in the vicinity of the site access are 24.70mph for vehicles travelling northbound and 24.66mph for vehicle travelling southbound.

1.5 Given Phoenix Lane predominantly serves industrial development we would ordinarily use to guidance set out within the DMRB which unfortunately does not give guidance for 85th percentile speeds of less that 50kph (30mph). However, if we were calculate the requirement based on the requirements for 30mph the requirement for 85th percentile speeds of 25mph would result in a requirement of 2.4m x 47m desirable or 2.4x 33m one step below desirable, visibility splays at the site access. As 85th percentile speeds are below 30mph we have also considered the guidance set out within the MfS, which with these 85th percentile speeds result in a requirement for 2.4m x 33m visibility splays at the site access, in both directions.

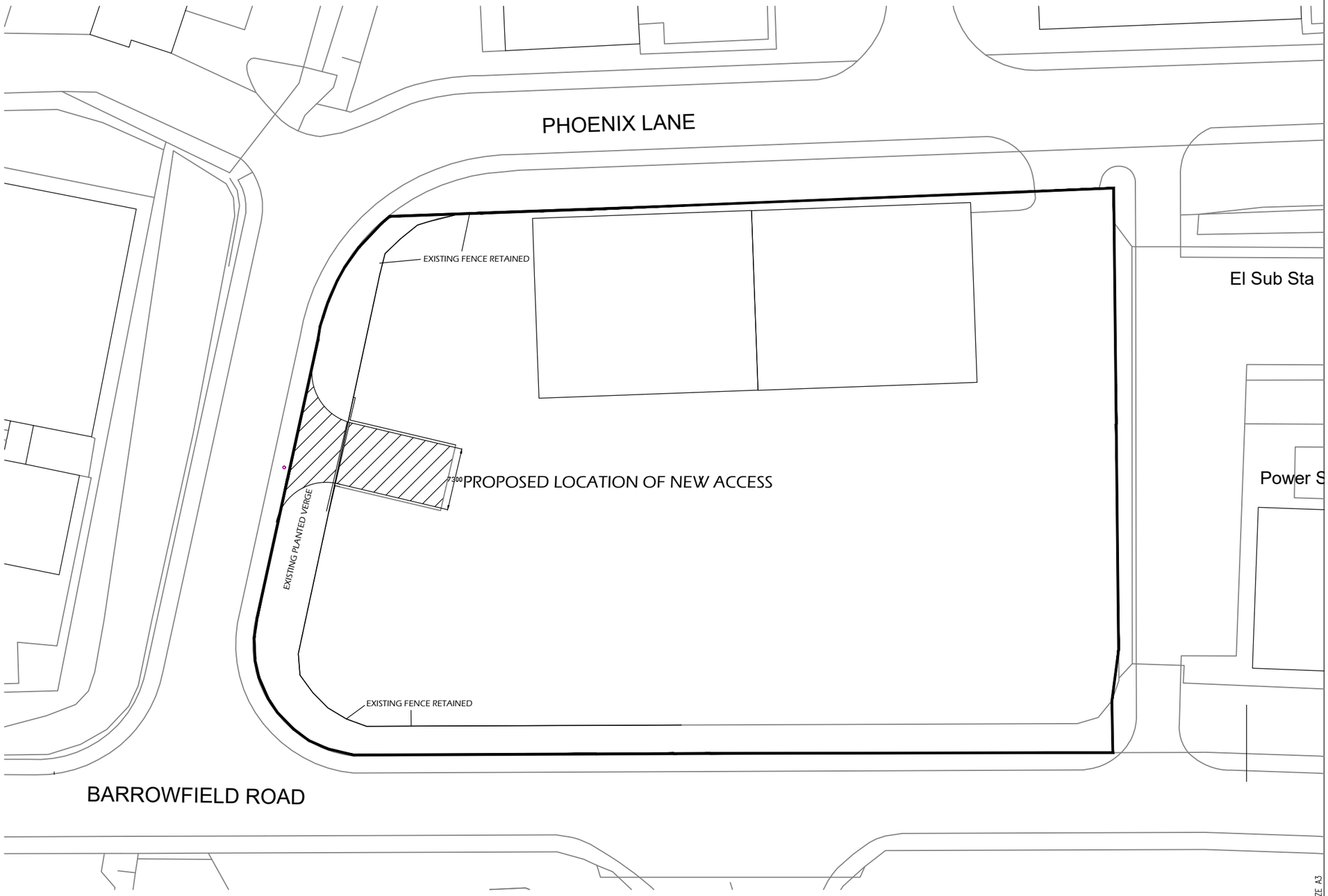
1.6 As shown on the drawing attached at **Appendix C**, the MfS visibility splay and the DMRB one step below desirable can be achieved at the proposed site access. Furthermore, visibility along the site frontage with Phoenix Lane is totally clear as a result of the straight alignment of Phoenix lane along this frontage. The only the reason the visibility splays are restricted to 2.4mx37m to the right and 2.4mx40m to the left is the relatively short frontage and the proximity of the access to a 90 degree bend to the north and Phoenix Lanes junction with Barrowfield Road to the south.

1.7 The applicant has confirmed they will ensure that any vegetation along the site frontage will be kept trimmed back so that it does not obscure the visibility at the site access.

1.8 Swept path analyses has been provided at **Appendix D** which demonstrates that the site access can be safely manoeuvred by a HVG and is able to enter and exit the site in a forward gear.

1.9 In summary it is considered that the proposed site access is in a suitable location which meets all current design standards and as such there are no highways or transport reasons that should prevent RMBC the proposals and ultimately the granting of planning consent.

APPENDIX A



SHEET SIZE A3

NORTH

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Project.
LAND AT PHOENIX LANE/
BARROWFIELD ROAD
THURNSCOE

Client.

Drawing Title.
SITE PLAN

Date.
OCY 2025

Scale.
1:500 @ A3

Ref.
2026-173

Dwg. No.
101

Rev.

APPENDIX B

Speed (mph)	Frequency	
x	f	f*x
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	2	34
18	0	0
19	2	38
20	5	100
21	5	105
22	6	132
23	5	115
24	3	72
25	4	100
26	5	130
27	7	189
28	1	28
29	2	58
30	3	90
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
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89	0	0
90	0	0
91	0	0
92	0	0
93	0	0
94	0	0
95	0	0
96	0	0
97	0	0
98	0	0
Total	50	1191

Speed (mph)	Frequency	Class Mark	x - mean	
Band	f	x	e	e*f
6.5-7.4	0	7	282.91	0.00
7.5-8.4	0	8	250.27	0.00
8.5-9.4	0	9	219.63	0.00
9.5-10.4	0	10	190.99	0.00
10.5-11.4	0	11	164.35	0.00
11.5-12.4	0	12	139.71	0.00
12.5-13.4	0	13	117.07	0.00
13.5-14.4	0	14	96.43	0.00
14.5-15.4	0	15	77.79	0.00
15.5-16.4	0	16	61.15	0.00
16.5-17.4	2	17	46.51	93.02
17.5-18.4	0	18	33.87	0.00
18.5-19.4	2	19	23.23	46.46
19.5-20.4	5	20	14.59	72.96
20.5-21.4	5	21	7.95	39.76
21.5-22.4	6	22	3.31	19.87
22.5-23.4	5	23	0.67	3.36
23.5-24.4	3	24	0.03	0.10
24.5-25.4	4	25	1.39	5.57
25.5-26.4	5	26	4.75	23.76
26.5-27.4	7	27	10.11	70.79
27.5-28.4	1	28	17.47	17.47
28.5-29.4	2	29	26.83	53.66
29.5-30.4	3	30	38.19	114.58
30.5-31.4	0	31	51.55	0.00
31.5-32.4	0	32	66.91	0.00
32.5-33.4	0	33	84.27	0.00
33.5-34.4	0	34	103.63	0.00
34.5-35.4	0	35	124.99	0.00
35.5-36.4	0	36	148.35	0.00
36.5-37.4	0	37	173.71	0.00
37.5-38.4	0	38	201.07	0.00
38.5-39.4	0	39	230.43	0.00
39.5-40.4	0	40	261.79	0.00
40.5-41.4	0	41	295.15	0.00
41.5-42.4	0	42	330.51	0.00
42.5-43.4	0	43	367.87	0.00
43.5-44.4	0	44	407.23	0.00
44.5-45.4	0	45	448.59	0.00
45.5-46.4	0	46	491.95	0.00
46.5-47.4	0	47	537.31	0.00
47.5-48.4	0	48	584.67	0.00
48.5-49.4	0	49	634.03	0.00
49.5-50.4	0	50	685.39	0.00
50.5-51.4	0	51	738.75	0.00
51.5-52.4	0	52	794.11	0.00
52.5-53.4	0	53	851.47	0.00
53.5-54.4	0	54	910.83	0.00
54.5-55.4	0	55	972.19	0.00
55.5-56.4	0	56	1035.55	0.00
56.5-57.4	0	57	1100.91	0.00
57.5-58.4	0	58	1168.27	0.00
58.5-59.4	0	59	1237.63	0.00
59.5-60.4	0	60	1308.99	0.00
60.5-61.4	0	61	1382.35	0.00
61.5-62.4	0	62	1457.71	0.00
62.5-63.4	0	63	1535.07	0.00
63.5-64.4	0	64	1614.43	0.00
64.5-65.4	0	65	1695.79	0.00
65.5-66.4	0	66	1779.15	0.00
66.5-67.4	0	67	1864.51	0.00
67.5-68.4	0	68	1951.87	0.00
68.5-69.4	0	69	2041.23	0.00
69.5-70.4	0	70	2132.59	0.00
70.5-71.4	0	71	2225.95	0.00
71.5-72.4	0	72	2321.31	0.00
72.5-73.4	0	73	2418.67	0.00
73.5-74.4	0	74	2518.03	0.00
74.5-75.4	0	75	2619.39	0.00
75.5-76.4	0	76	2722.75	0.00
76.5-77.4	0	77	2828.11	0.00
77.5-78.4	0	78	2935.47	0.00
78.5-79.4	0	79	3044.83	0.00
79.5-80.4	0	80	3156.19	0.00
80.5-81.4	0	81	3269.55	0.00
81.5-82.4	0	82	3384.91	0.00
82.5-83.4	0	83	3502.27	0.00
83.5-84.4	0	84	3621.63	0.00
84.5-85.4	0	85	3742.99	0.00
85.5-86.4	0	86	3866.35	0.00
86.5-87.4	0	87	3991.71	0.00
87.5-88.4	0	88	4119.07	0.00
88.5-89.4	0	89	4248.43	0.00
89.5-90.4	0	90	4379.79	0.00
90.5-91.4	0	91	4513.15	0.00
91.5-92.4	0	92	4648.51	0.00
92.5-93.4	0	93	4785.87	0.00
93.5-94.4	0	94	4925.23	0.00
94.5-95.4	0	95	5066.59	0.00
95.5-96.4	0	96	5209.95	0.00
96.5-97.4	0	97	5355.31	0.00
97.5-98.4	0	98	5502.67	0.00
Total	50			561.38

Survey Details

Date:	12/01/2026
Road / Location:	Phoenix Lane, Thurnscoe
Direction of traffic:	Northbound
Weather:	Dry
Surveyor:	GD
Speed Limit:	60mph

DMRB - TA22/81 Calculations

Mean Speed = sum (f*x)/x 23.82 mph

Standard deviation = SQRT(sum(e*f))/sum(f) 3.38 mph

Dry 85th%ile Design Speed = Mean Speed + Standard Deviation

Wet 85th%ile Design Speed Correction = -2.5mph

Therefore, the 85th%ile Wet Condition = 24.70 mph or 39.75 kph

	Calculation of 85th Percentile Design Speed from Speed Survey	**SP/01**
		12/01/2026
	Phoenix Lane, Thurnscoe	**Job No. 26002**

Speed (mph)	Frequency	
x	f	f*x
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	2	30
16	0	0
17	0	0
18	0	0
19	3	57
20	3	60
21	8	168
22	6	132
23	7	161
24	6	144
25	7	175
26	8	208
27	5	135
28	2	56
29	2	58
30	2	60
31	0	0
32	1	32
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
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90	0	0
91	0	0
92	0	0
93	0	0
94	0	0
95	0	0
96	0	0
97	0	0
98	0	0
Total	62	1476

Speed (mph)	Frequency	Class Mark	x - mean	
Band	f	x	e	e*f
6.5-7.4	0	7	282.46	0.00
7.5-8.4	0	8	249.84	0.00
8.5-9.4	0	9	219.23	0.00
9.5-10.4	0	10	190.62	0.00
10.5-11.4	0	11	164.01	0.00
11.5-12.4	0	12	139.39	0.00
12.5-13.4	0	13	116.78	0.00
13.5-14.4	0	14	96.17	0.00
14.5-15.4	2	15	77.55	155.11
15.5-16.4	0	16	60.94	0.00
16.5-17.4	0	17	46.33	0.00
17.5-18.4	0	18	33.71	0.00
18.5-19.4	3	19	23.10	69.31
19.5-20.4	3	20	14.49	43.47
20.5-21.4	8	21	7.88	63.01
21.5-22.4	6	22	3.26	19.58
22.5-23.4	7	23	0.65	4.55
23.5-24.4	6	24	0.04	0.22
24.5-25.4	7	25	1.42	9.97
25.5-26.4	8	26	4.81	38.49
26.5-27.4	5	27	10.20	50.99
27.5-28.4	2	28	17.59	35.17
28.5-29.4	2	29	26.97	53.95
29.5-30.4	2	30	38.36	76.72
30.5-31.4	0	31	51.75	0.00
31.5-32.4	1	32	67.13	67.13
32.5-33.4	0	33	84.52	0.00
33.5-34.4	0	34	103.91	0.00
34.5-35.4	0	35	125.30	0.00
35.5-36.4	0	36	148.68	0.00
36.5-37.4	0	37	174.07	0.00
37.5-38.4	0	38	201.46	0.00
38.5-39.4	0	39	230.84	0.00
39.5-40.4	0	40	262.23	0.00
40.5-41.4	0	41	295.62	0.00
41.5-42.4	0	42	331.01	0.00
42.5-43.4	0	43	368.39	0.00
43.5-44.4	0	44	407.78	0.00
44.5-45.4	0	45	449.17	0.00
45.5-46.4	0	46	492.55	0.00
46.5-47.4	0	47	537.94	0.00
47.5-48.4	0	48	585.33	0.00
48.5-49.4	0	49	634.71	0.00
49.5-50.4	0	50	686.10	0.00
50.5-51.4	0	51	739.49	0.00
51.5-52.4	0	52	794.88	0.00
52.5-53.4	0	53	852.26	0.00
53.5-54.4	0	54	911.65	0.00
54.5-55.4	0	55	973.04	0.00
55.5-56.4	0	56	1036.42	0.00
56.5-57.4	0	57	1101.81	0.00
57.5-58.4	0	58	1169.20	0.00
58.5-59.4	0	59	1238.59	0.00
59.5-60.4	0	60	1309.97	0.00
60.5-61.4	0	61	1383.36	0.00
61.5-62.4	0	62	1458.75	0.00
62.5-63.4	0	63	1536.13	0.00
63.5-64.4	0	64	1615.52	0.00
64.5-65.4	0	65	1696.91	0.00
65.5-66.4	0	66	1780.30	0.00
66.5-67.4	0	67	1865.68	0.00
67.5-68.4	0	68	1953.07	0.00
68.5-69.4	0	69	2042.46	0.00
69.5-70.4	0	70	2133.84	0.00
70.5-71.4	0	71	2227.23	0.00
71.5-72.4	0	72	2322.62	0.00
72.5-73.4	0	73	2420.01	0.00
73.5-74.4	0	74	2519.39	0.00
74.5-75.4	0	75	2620.78	0.00
75.5-76.4	0	76	2724.17	0.00
76.5-77.4	0	77	2829.55	0.00
77.5-78.4	0	78	2936.94	0.00
78.5-79.4	0	79	3046.33	0.00
79.5-80.4	0	80	3157.71	0.00
80.5-81.4	0	81	3271.10	0.00
81.5-82.4	0	82	3386.49	0.00
82.5-83.4	0	83	3503.88	0.00
83.5-84.4	0	84	3623.26	0.00
84.5-85.4	0	85	3744.65	0.00
85.5-86.4	0	86	3868.04	0.00
86.5-87.4	0	87	3993.42	0.00
87.5-88.4	0	88	4120.81	0.00
88.5-89.4	0	89	4250.20	0.00
89.5-90.4	0	90	4381.59	0.00
90.5-91.4	0	91	4514.97	0.00
91.5-92.4	0	92	4650.36	0.00
92.5-93.4	0	93	4787.75	0.00
93.5-94.4	0	94	4927.13	0.00
94.5-95.4	0	95	5068.52	0.00
95.5-96.4	0	96	5211.91	0.00
96.5-97.4	0	97	5357.30	0.00
97.5-98.4	0	98	5504.68	0.00
Total	62			687.68

Survey Details

Date:	12/01/2026
Road / Location:	Phoenix Lane, Thurnscoe
Direction of traffic:	Southbound
Weather:	Dry
Surveyor:	AT
Speed Limit:	60mph

DMRB - TA22/81 Calculations

Mean Speed = sum (f*x)/x 23.81 mph

Standard deviation = SQRT(sum(e*f))/sum(f) 3.36 mph

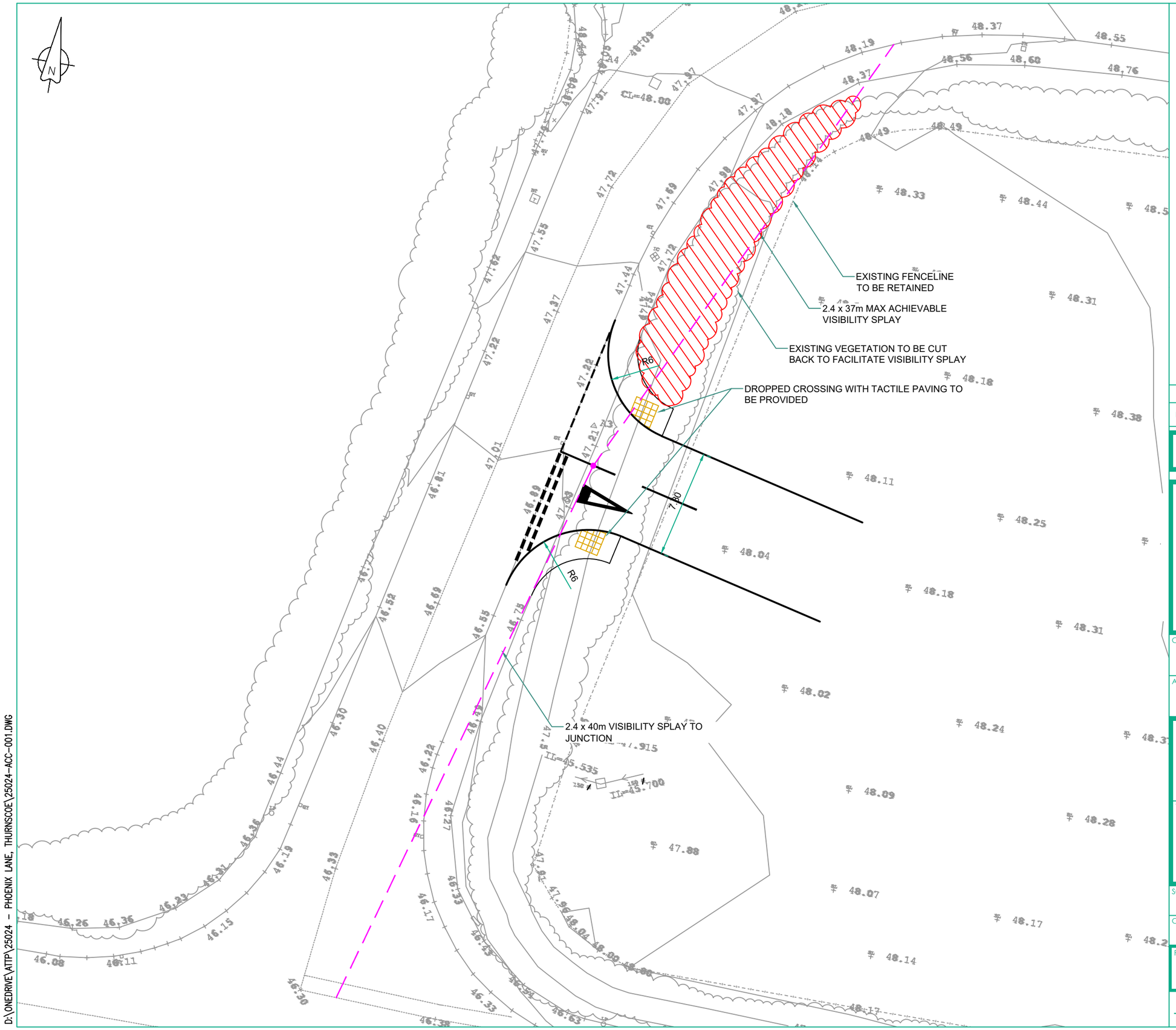
Dry 85th%ile Design Speed = Mean Speed + Standard Deviation

Wet 85th%ile Design Speed Correction = -2.5mph

Therefore, the 85th%ile Wet Condition = 24.66 mph or 39.68 kph

	Calculation of 85th Percentile Design Speed from Speed Survey	**SP/01**
		12/01/2026
	Phoenix Lane, Thurnscoe	**Job No. 26002**

APPENDIX C



DO NOT SCALE

KEY

VISIBILITY SPLAY

REV	DATE	BY	DESCRIPTION	CHK	APP
-	29/01/2026	TS	FIRST ISSUE	AT	AT

DRAWING STATUS:
FOR INFORMATION ONLY

AIMEE THOMPSON TRANSPORT PLANNING

CLIENT:
JLS JOINERY

ARCHITECT:
NYP ARCHITECTURAL

PROJECT:
PHOENIX LANE
THURNSCOE

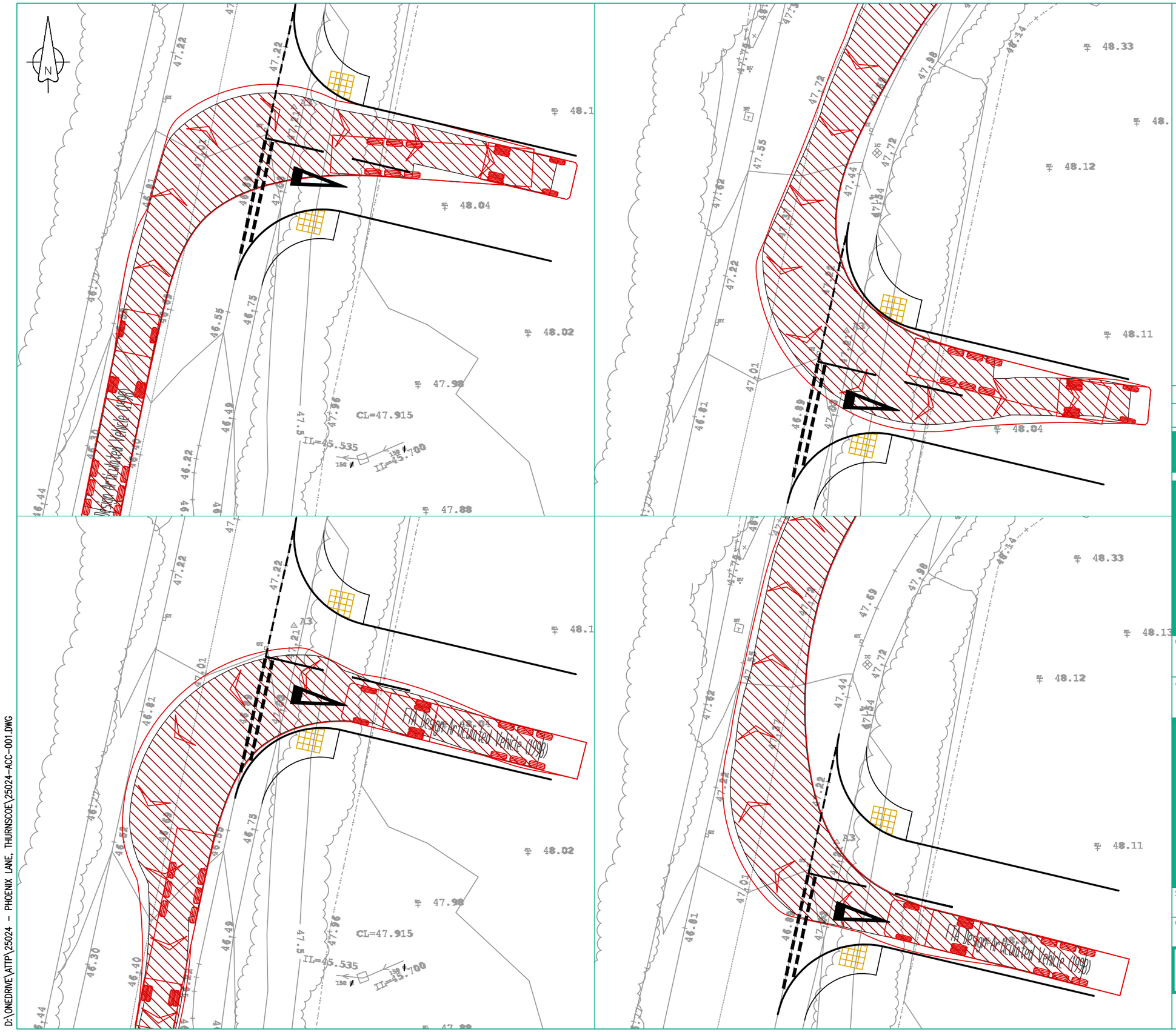
TITLE:
PROPOSED JUNCTION
VISIBILITY ASSESSMENT

SCALE @ A3:	CHECKED:	APPROVED:
1:250	AT	AT
CAD FILE:	DESIGN-DRAWN:	DATE:
25024-ACC-001.dwg	TS	29/01/2026
PROJECT No:	DRAWING No:	REV:
25024	25024/VIS/001	-

T: 07507 342334 E: aimee@at-transportplanning.co.uk

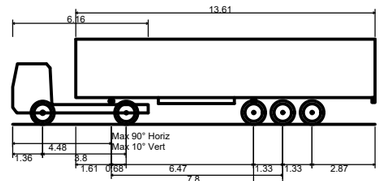
D:\ONEDRIVE\ATTP\25024 – PHOENIX LANE, THURNSCOE\25024-ACC-001.DWG

APPENDIX D



DO NOT SCALE

VEHICLE DETAILS



FTA Design Articulated Vehicle (1998)

Overall Length	16.480m
Overall Width	2.550m
Overall Body Height	3.870m
Min Body Ground Clearance	0.515m
Max Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	6.550m

REV	DATE	BY	DESCRIPTION	CHK	APP
-	29/01/2026	TS	FIRST ISSUE	AT	AT

DRAWING STATUS:
FOR INFORMATION ONLY

AIMEE THOMPSON TRANSPORT PLANNING

CLIENT:
JLS JOINERY

ARCHITECT:
NYP ARCHITECTURAL

PROJECT:
PHOENIX LANE
THURNSCOE

TITLE:
PROPOSED JUNCTION
SWEPT PATH ANALYSIS

SCALE @ A3:	CHECKED:	APPROVED:
1:250	AT	AT
CAD FILE:	DESIGN-DRAWN:	DATE:
25024-ACC-001.dwg	TS	29/01/2026
PROJECT No:	DRAWING No:	REV:
25024	25024/SPA/001	-

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