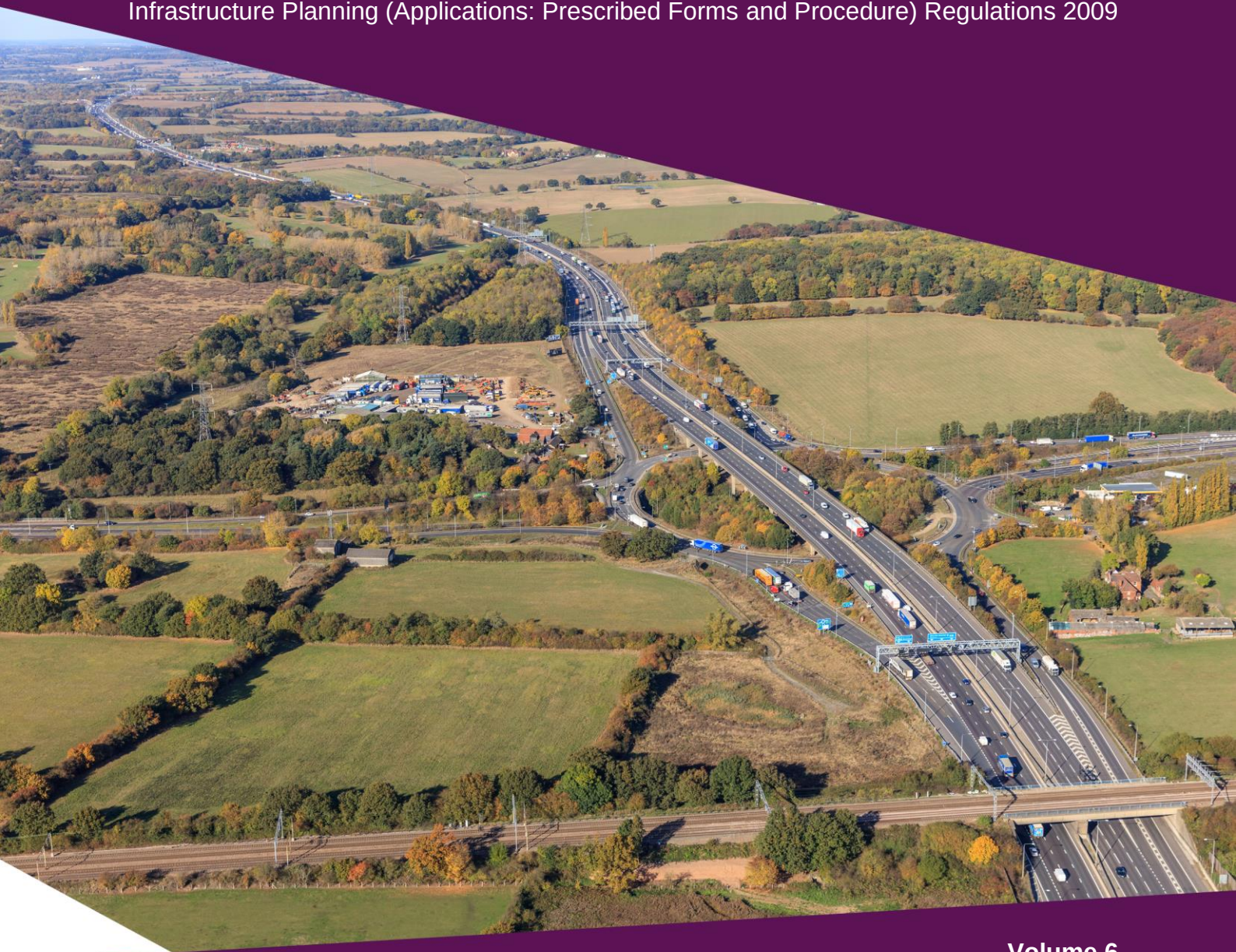
M25 junction 28 improvement scheme
TR010029
6.3 Environmental Statement
Appendix 6.3: Noise sensitive receptors

APFP Regulation 5(2)(a)
Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



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Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M25 junction 28 scheme
Development Consent Order 202[x]

6.3 ENVIRONMENTAL STATEMENT
APPENDIX 6.3: NOISE SENSITIVE RECEPTORS

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR010029
Application Document Reference:	TR010029/APP/6.3
Author:	M25 junction 28 scheme, Project Team, Highways England

Version	Date	Status of Version
3	April 2021	Deadline 5, incorporated changes 1-4, updates to Grove Farm
2	18 February 2021	Deadline 3 – Request for change
1	May 2020	Application issue

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Appendix 6.3 Noise sensitive receptors

6. Noise sensitive receptors

6.1 Introduction

6.1.1 This document presents the predicted road traffic noise levels in the operation phase of the Scheme in its opening year (2022) and future assessment year (2037) for a selection of sensitive receptors within the study area.

6.1.2 The predicted road traffic noise levels for the following traffic scenarios are provided in this document:

- Do Minimum 2022 (DM 2022) – without the Scheme in the opening year
- Do Something 2022 (DS 2022) – with the Scheme in the opening year
- Do Minimum 2037 (DM 2037) – without the Scheme in the future assessment year
- Do Something 2037 (DS 2037) – with the Scheme in the future assessment year

6.1.3 Multiple prediction points were used to establish the level of noise impact at sensitive receptors. For example, at least one prediction point was modelled on each façade of a noise-sensitive building. The results presented in this section are the predicted road traffic noise levels at 1m from the worst affected façade and floor (or prediction point) at each of the selected sensitive receptors. The worst affected façade and floor of noise-sensitive properties was the one where the highest noise levels were predicted.

6.1.4 For further details about the assessment methodology, modelling assumptions and limitations, and the significance threshold levels used to appraise the Scheme, please refer to the Noise and Vibration chapter (Chapter 6) of ES (application document TR010029/APP/6.1).

6.2 Predicted daytime road traffic noise levels

6.2.1 Table 6.1 below shows the predicted daytime ($L_{A10,18h}$) road traffic noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

Table 6.1 Predicted daytime road traffic noise levels at selected locations

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Maylands Cottages Colchester Road RM3 0AZ	62.4	6~~1.6~~2.1	62.0	61.8	-0.~~8~~3	-0.6
2 Maylands Cottages Colchester Road RM3 0AZ	63.7	63.~~3~~5	63.6	63.~~6~~5	-0.~~4~~2	-0.~~1~~2
10 Woodstock Avenue RM3 9NF	63.6	63.~~3~~5	63.7	63.7	-0.~~3~~1	0.1
42 Woodstock Avenue RM3 9NF	60.5	~~59.~~60.3	60.2	60.1	-0.~~6~~2	-0.4

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Mawbery Close RM3 3FB	57.5	56.87.4	56.9	56.9	-0.71	-0.6
10 Dagnam Park Square RM3 9YP	54.1	53.74.1	54.0	54.0	-0.40	-0.1
29 Dagnam Park Drive RM3 9XH	55.4	55.34	55.5	55.6	-0.10	0.2
19 Fairford Way RM3 9YR	55.7	55.58	55.7	55.8	-0.21	0.1
1A Harold Court Road RM3 0AE	72.2	72.3	72.8	72.9	0.1	0.7
34 Thurso Close RM3 0YS	60.8	60.8	61.1	61.3	0.0	0.5
9 Church Road RM3 0JX	51.649.9	49.951.1	51.049.3	51.149.4	-0.50	-0.5
29 Homeway RM3 0HD	57.3	57.02	57.3	57.4	-0.31	0.1
33 Maylands Way RM3 0BQ	587.5	57.84	57.76.6	57.76.6	-0.71	-0.89
12 Craven Gardens RM3 0DF	60.4	59.860.2	59.9	59.9	-0.62	-0.5
Gardens of Peace Muslim Cemetery RM3 0AW	59.2	58.5	58.8	58.7	-0.7	-0.5
13 Nags Head Lane CM14 5NJ (NIA 5749)	72.1	72.1	70.4	70.5	0.0	-1.6
44 Nags Head Lane CM14 5NL	64.4	64.5	64.9	64.8	0.1	0.4
17 Colchester Road RM3 0AW	74.4	74.5	75.0	75.1	0.1	0.7
60, Brook Street CM14 5ND (NIA 5750)	75.0	74.55.1	73.5	73.8	-0.51	-1.2
63 Brook Street CM14 5NA (NIA 13448)	73.1	73.0	73.2	73.1	-0.1	0.0
Caravan 1, Putwell Bridge Caravan Park, Colchester Road RM3 0FF	74.9	74.5	75.3	75.0	-0.4	0.1
Grove Farm, Brook Street CM14 5NG	73.4	72.53.3	72.3	72.5	-0.91	-0.9
31 Wingrave Crescent CM14 5PA	66.54.3	66.44.3	66.64.4	66.74.5	-0.10	0.2

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
7 Leonard Way CM14 5PD (NIA 5752)	69.6	69.6	70.1	70.1	0.0	0.5
44 Spital Lane CM14 5PG	63.8	63.~~7~~8	64.1	64.2	~~-~~0.0	0.4
12 Talbrook CM14 4PY (NIA 5751)	63.7	63.7	64.0	64.1	0.0	0.4
40 Brook Road CM14 4PT	57.6	57.7	58.1	58.1	0.1	0.5
Weald Hall, Wigley Bush Lane CM14 5QP	67.1	67.2	67.3	67.4	0.1	0.3
119 London Road CM14 4NP	72.9	72.9	73.3	73.3	0.0	0.4
101 London Road CM14 4NP (NIA 13446)	73.8	73.8	74.2	74.2	0.0	0.4
2 Westbourne Drive CM14 4PH	56.1	5~~5.~~6.1	56.1	56.2	~~-~~0.0~~2~~	0.1
16 Mascalls Gardens CM14 5LT	58.3	5~~7.~~8.2	57.6	57.7	-0.1~~5~~	-0.6

6.3 Predicted night-time road traffic noise levels

6.3.1 Table 6.2 below shows the predicted night-time (L_{night}) noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

Table 6.2: Predicted night-time road traffic noise levels at selected locations

Noise-sensitive receptor	Road traffic noise levels (L_{night}, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Maylands Cottages Colchester Road RM3 0AZ	5~~7.1~~4.6	5~~6.4~~4.5	5~~6.3~~3.8	5~~6.4~~3.9	-0.~~7~~1	-0.~~8~~7
2 Maylands Cottages Colchester Road RM3 0AZ	5~~7.2~~4.7	5~~6.6~~4.7	5~~6.5~~4.0	5~~6.6~~4.0	-0.~~6~~7	-0.7
10 Woodstock Avenue RM3 9NF	5~~6.~~3.8	5~~5..9~~3.8	5~~5.9~~3.4	5~~6.0~~3.5	0.40	-0.3
42 Woodstock Avenue RM3 9NF	5~~5..4~~2.9	5~~4..8~~2.9	5~~4.8~~2.3	5~~4.8~~2.3	~~-~~0.~~6~~0	-0.6
1 Mawbery Close RM3 3FB	5~~3.7.~~1.2	5~~3.1~~1.2	5~~3.1~~0.6	5~~3.1~~0.7	~~-~~0.~~6~~0	-0.~~6~~5

Noise-sensitive receptor	Road traffic noise levels (L_{night}, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
10 Dagnam Park Square RM3 9YP	50.2.47.7	49.87.7	49.97.4	49.47.4	-0.40	-0.3
29 Dagnam Park Drive RM3 9XH	47.29.7	49.27.2	49.36.8	49.46.9	-0.40	-0.3
19 Fairford Way RM3 9YR	50.648.1	50.248.1	50.147.6	50.347.8	-0.40	-0.3
1A Harold Court Road RM3 0AE	58.961.4	61.59.0	61.959.4	62.059.5	0.1	0.6
34 Thurso Close RM3 0YS	52.90.4	52.70.4	52.80.3	52..90.4	-0..20	0.0
9 Church Road RM3 0JX	484.0	47.54.0	473.1	47.3.2	-0.50	-0..78
29 Homeway RM3 0HD	51.49.0	5.149.0	51.148.6	548.7	-0.40	-0.3
33 Maylands Way RM3 0BQ	54.31.1	53.1.0	53.30.1	53.0.1	-0.71	-1.0
12 Craven Gardens RM3 0DF	55.52.9	54.2.9	54.52.0	54.2.1	-0.60	-0.8
Gardens of Peace Muslim Cemetery RM3 0AW	54.1	53.4	53.3	53.3	-0.7	-0.8
13 Nags Head Lane CM14 5NJ (NIA 5749)	66.54.0	66.94.4	65.42.9	65.53.0	0.4	-1.10
44 Nags Head Lane CM14 5NL	56..84.3	56.84.4	56.84.3	56.84.3	0.1	0.0
17 Colchester Road RM3 0AW	63.81.3	63.71.3	64.11.6	64.21.7	-0.10	0.34
60, Brook Street CM14 5ND (NIA 5750)	69.46.9	697.0	685.5	68.35.8	-0.41	-1.41
63 Brook Street CM14 5NA (NIA 13448)	63.51.0	63.20.9	63.20.7	63.20.7	-0.31	-0.3
Caravan 1 Putwell Bridge Caravan Park Colchester Road RM3 0FF	64.52.0	64.11.7	64.72.2	64.41.9	-0.43	-0.21
Grove Farm, Brook Street CM14 5NG	67.65.1	66.5.3	66.4.2	66.4.4	-0.72	-0.97
31 Wingrave Crescent CM14 5PA	57..83.7	57.3.6	57.53.3	57.63.4	-0.21	-0.3
7 Leonard Way CM14 5PD (NIA 5752)	59.57.0	59.47.0	59.87.3	59.87.3	-0.1	0..03
44 Spital Lane CM14 5PG	55.12.6	54..82.6	55.02.5	55.12.6	-0.30	0.20

Noise-sensitive receptor	Road traffic noise levels (L_{night}, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
12 Talbrook CM14 4PY (NIA 5751)	54..52.0	54..42.0	54.62.1	54..72.2	-0.10	0.2
40 Brook Road CM14 4PT	49.1.6.6	49.06.7	49.36.8	49.36.8	0.1	0.2
Weald Hall, Wigley Bush Lane CM14 5QP	58.25.7	58.05.8	58.15.6	58.15.6	-0.21	-0.1
119 London Road CM14 4NP	62.059.5	62.059.5	62.359.8	62.359.8	0.0	0.3
101 London Road CM14 4NP (NIA 13446)	62.80.3	62.80.3	63.10.6	63.10.6	0.0	0.3
2 Westbourne Drive CM14 4PH	49.87.3	49.47.3	49.36.8	49.36.8	-0.40	-0.5
16 Mascalls Gardens CM14 5LT	53..71.2	53.21.2	52.80.3	52..90.4	-0.50	-0.8

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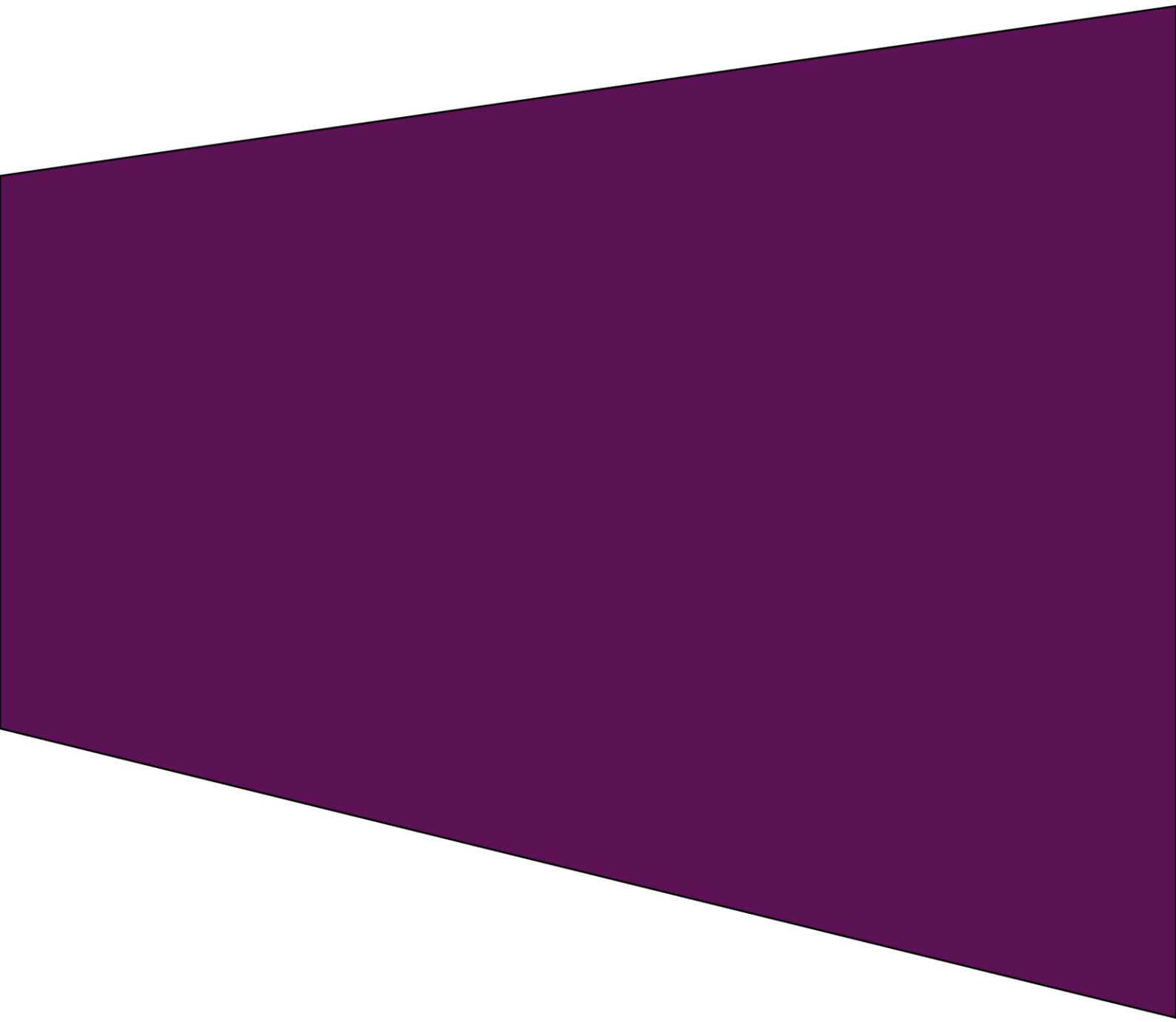
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