

Date: 17th November 2025

Our reference: NJD18-0068-004L

FAO: Environmental Health Department, South Tyneside Council

Former Ashworth Fraser Site – Noise Addendum

NJD Environmental Associates Ltd was originally appointed to undertake a detailed Noise Assessment in support of the proposed redevelopment of the Former Ashworth Fraser Site, South Tyneside, with the findings presented within our 2018 report (ref. NJD18-0068-002R). That assessment established baseline sound levels across the site through a programme of attended and unattended measurements, and presented a detailed appraisal of noise impacts from surrounding transportation and industrial sources in accordance with the relevant guidance.

Since the original submission, the site layout has been revised, with notable amendments to the western portion of the site where residential apartment blocks were previously proposed. This Noise Addendum has therefore been prepared to provide further technical clarification and updated noise modelling to reflect the revised site arrangement. The addendum is intended to be read in conjunction with the original 2018 assessment, which remains valid for all other aspects of the development.

Assessment Scope and Methodology

The additional work undertaken for this addendum has been based on the same set of measured noise data as presented in the 2018 report.

Noise propagation modelling has been undertaken using industry-standard prediction techniques, consistent with the approach previously adopted. The methodology follows the procedures described within Calculation of Road Traffic Noise (CRTN, 1988) and ISO 9613-2:1996 – Attenuation of sound during propagation outdoors, as appropriate. The modelling accounts for topography, ground absorption, building screening, and proposed boundary treatments.

Predictions were carried out for the following acoustic indices:

- **Daytime (LAeq,16hr)** representing the period 07:00–23:00 hours;
- **Night-time (LAeq,8hr)** representing the period 23:00–07:00 hours; and

- **Night-time (LA_{max})** to assess the maximum sound levels from individual vehicle pass-bys during the night.

Noise levels were predicted at 1.5 m height for garden and living room areas and 4 m height for first-floor façades of the proposed dwellings.

Results and Discussion

The resultant external noise levels are presented graphically at Figures 1 to 3 of this addendum. These illustrate the spatial distribution of predicted daytime and night-time levels across the revised development layout. The results confirm that, in the absence of mitigation, some minor exceedances of external guideline levels may be present along the western site boundary.

To address these levels, a 2.0 m high acoustic fence is proposed along the western boundary. The barrier has been incorporated into the noise model as a continuous, acoustically imperforate screen with a minimum surface mass of 12 kg/m², equivalent to a high-density timber construction.

With this mitigation in place, predicted external noise levels fall within the guideline values set out in BS 8233:2014 for private outdoor amenity spaces.

Internal Noise Environment

For internal spaces, the combination of enhanced thermal double glazing and acoustic trickle ventilation will ensure that the internal ambient noise levels achieve the design criteria recommended in BS 8233:2014 and WHO Guidelines for Community Noise.

Indicative ventilation requirements and glazing performance specifications have been presented on a plot-by-plot basis within Figures 4 and 5 of this addendum. These identify the specific dwellings where enhanced acoustic measures are required, along with the corresponding performance standards to be achieved.

All proposed specifications are readily achievable using commercially available acoustic products and can be secured by means of a suitably worded planning condition.

Summary and Conclusions

This Noise Addendum has been prepared to provide updated technical information reflecting the revised layout of the Former Ashworth Fraser Site development. The work builds directly upon the detailed baseline measurements and assessment methodologies contained within the 2018 report, ensuring full consistency and continuity of approach.

The results of the updated modelling demonstrate that with the installation of a 2.0 m acoustic fence along the western boundary, external noise levels within gardens and private amenity areas are expected to comply with the guideline values of BS 8233:2014. With the provision of appropriate glazing and acoustic ventilation, internal noise levels within habitable rooms will also comply with the relevant design criteria.

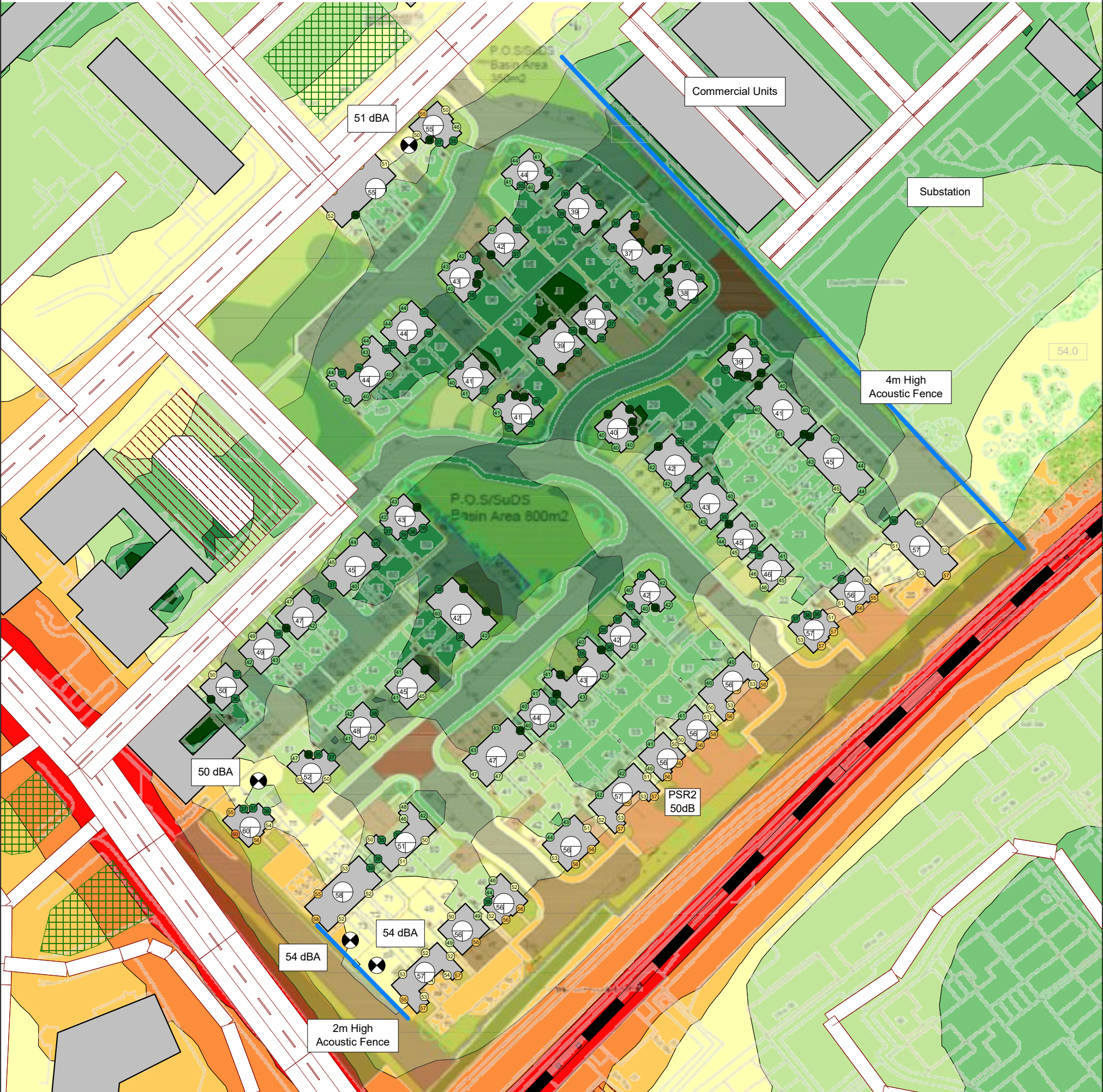
On this basis, the revised development layout can be considered to provide an acceptable acoustic environment for future residents.

We trust that this addendum provides the Council with sufficient information to confirm that the proposed revisions do not give rise to any additional noise-related concerns. Should you require any further clarification or supporting information, please do not hesitate to contact us.

Yours sincerely

Nick Dennon BSc MSC MIOA

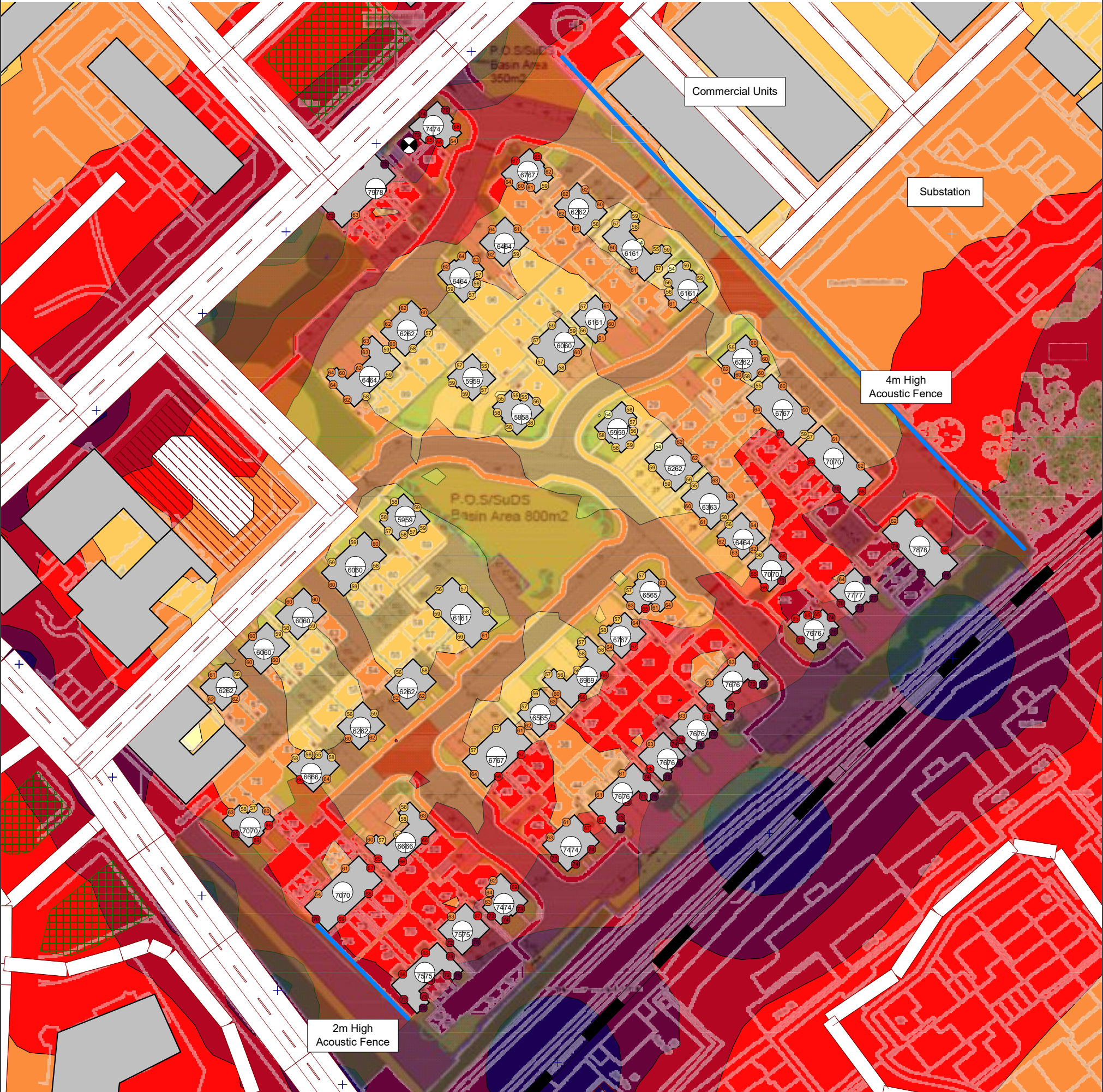
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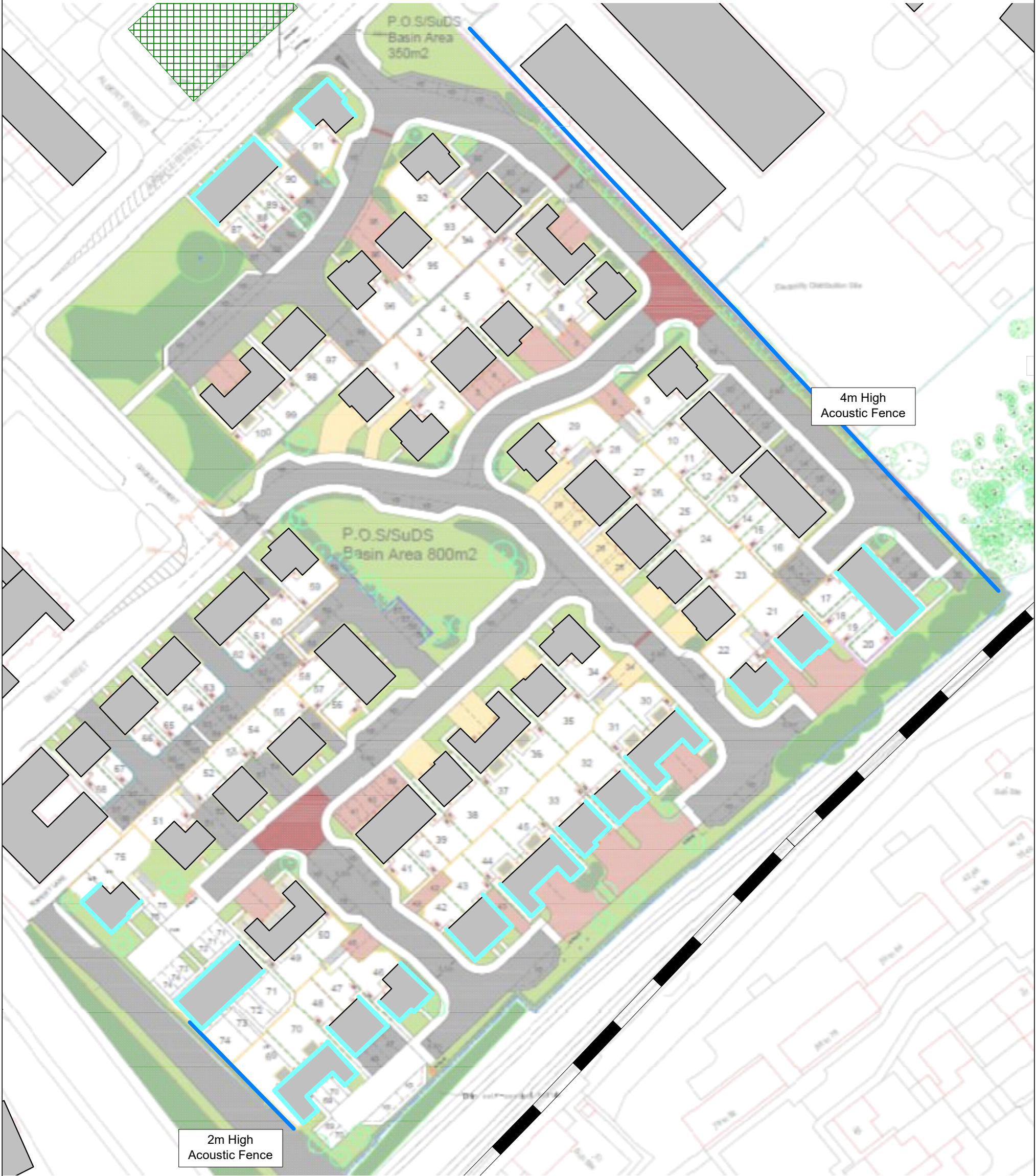
	Client: The Shlomo Memorial Trust	Figure 1: Daytime Transportation Noise Levels 1.5m Grid Height (dB LAeq,16h)	0 <= ... < 35 35 <= ... < 40 40 <= ... < 45 45 <= ... < 50 50 <= ... < 55 55 <= ... < 60 60 <= ... < 65 65 <= ... < 70 70 <= ... < 75 75 <= ... < 80 80 <= ...	 Date: Nov 2025
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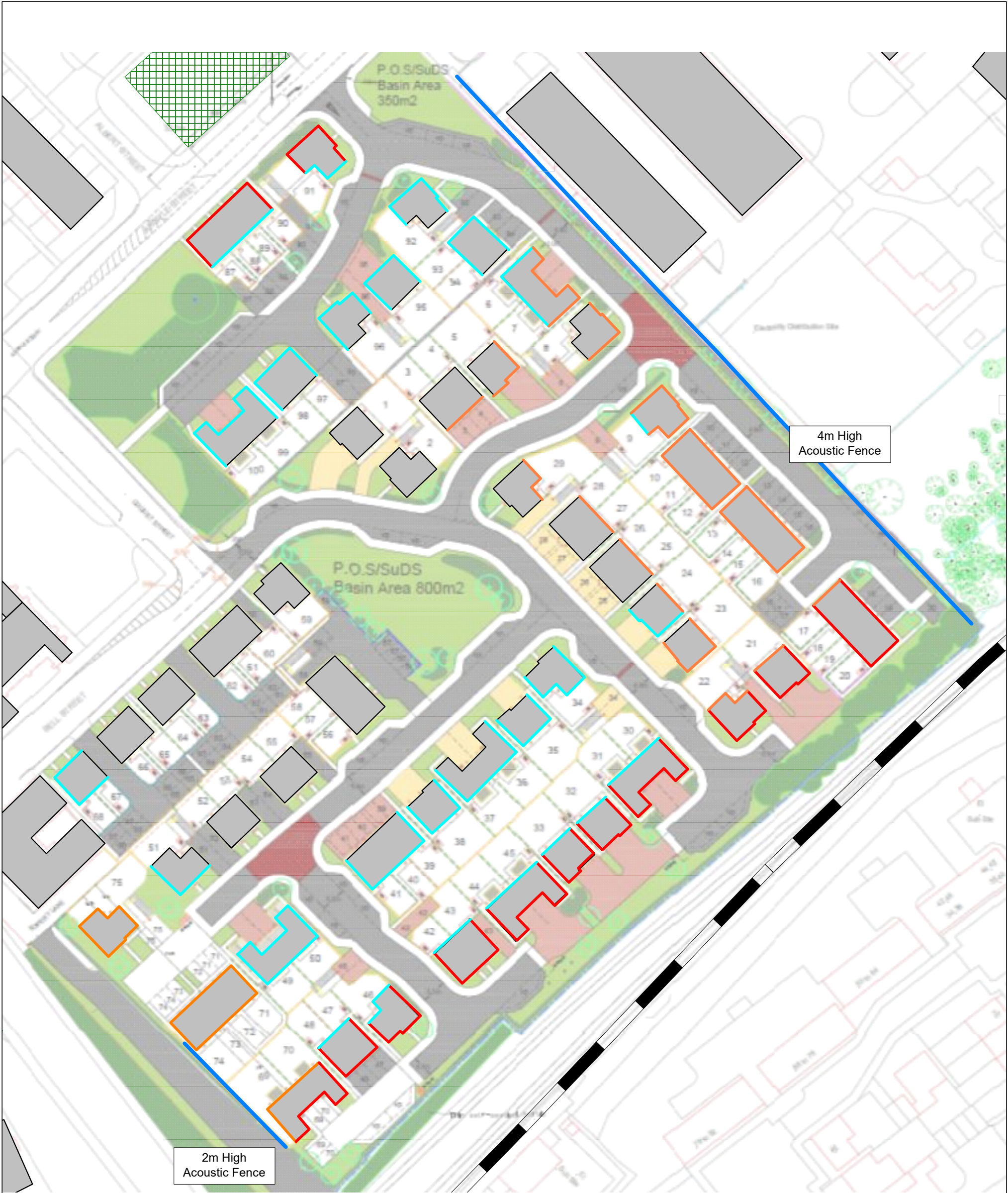
	Client: The Shlomo Memorial Trust	Figure 2: Night-time Transportation Noise Levels 4m Grid Height (dB LAeq,8h)	0 <= ... < 35 35 <= ... < 40 40 <= ... < 45 45 <= ... < 50 50 <= ... < 55 55 <= ... < 60 60 <= ... < 65 65 <= ... < 70 70 <= ... < 75 75 <= ... < 80 80 <= ...	 Date: Nov 2025
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	Client: The Shlomo Memorial Trust	Figure 3: Night-time Transportation Noise Levels 4m Grid Height (dB LMax)	0 <= ... < 35 35 <= ... < 40 40 <= ... < 45 45 <= ... < 50 50 <= ... < 55 55 <= ... < 60 60 <= ... < 65 65 <= ... < 70 70 <= ... < 75 75 <= ... < 80 80 <= ...	 Date: Nov 2025
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	Client: The Shlomo Memorial Trust	Figure 4: Mitigation for Living Rooms: Unmarked facades have no specific requirements	<table border="1"><tr><td>Key:</td><td>Living Rooms; Required Mitigation:</td></tr><tr><td></td><td>4/12/4mm glazing; EAR42W acoustic vents</td></tr></table>	Key:	Living Rooms; Required Mitigation:		4/12/4mm glazing; EAR42W acoustic vents	 Date: Nov 2025
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Figure 5:
Mitigation for Bedrooms:
Unmarked facades have no
specific requirements

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NJ Dennon

Key:	Bedrooms; Required Mitigation:
—	4/12/4mm glazing; EAR42W acoustic vents
—	6/12/4mm glazing; EAR42W acoustic vents
—	10/12/6mm glazing; EAR42W acoustic vents


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