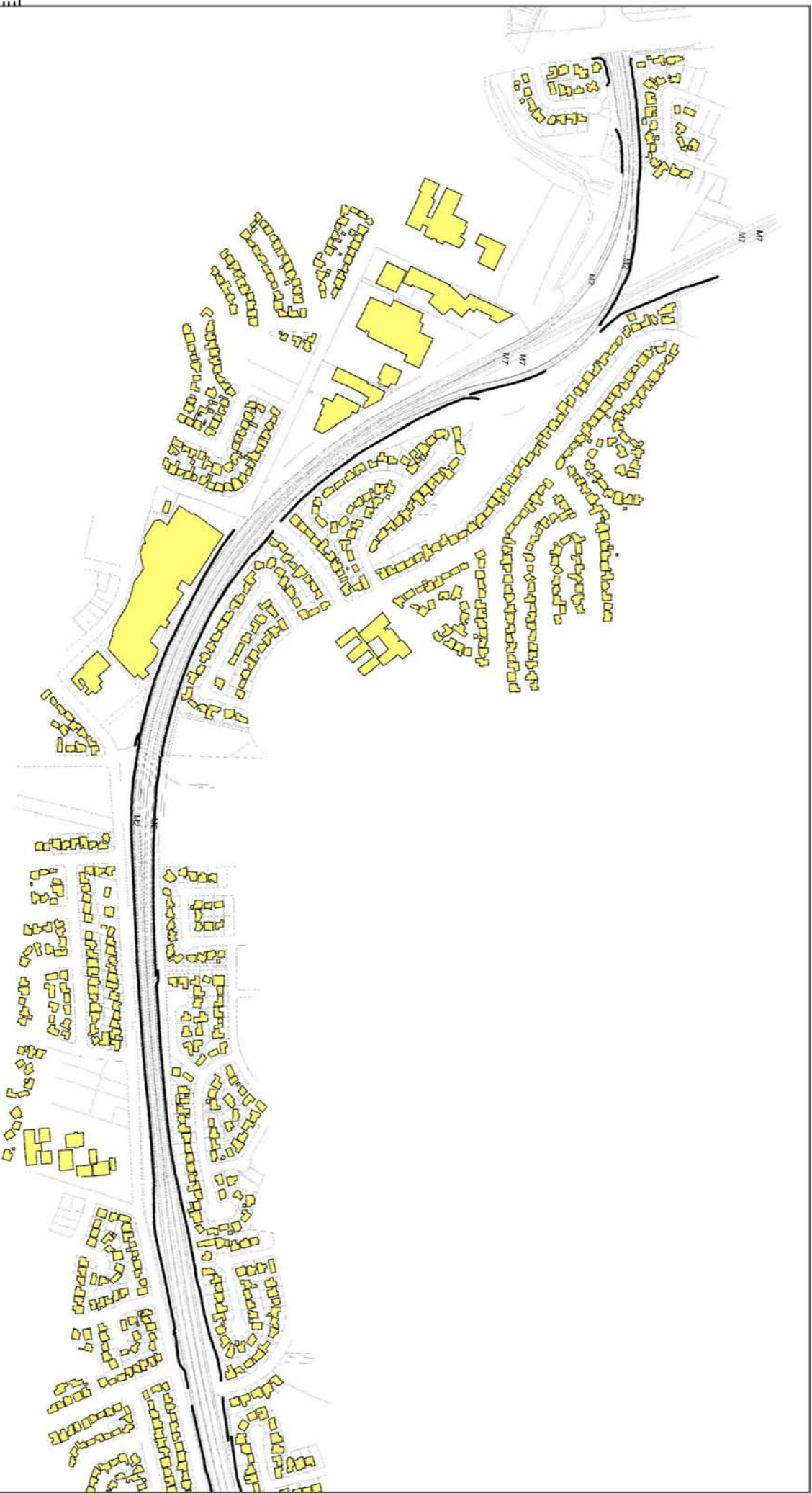


Future Design (2021) MINUS Future Existing (2011) Facade Plots - Ground and First Floors



50 mm ON ORIGINAL

0 10 20 30 40 50

0 18/12/09  
NEW DATE AMENDMENT / ISSUE DESCRIPTION  
ALW  
PG  
PREPARED CHECKED

Legend

- > 2 dBA
- < 2 dBA



Heggies Pty Ltd

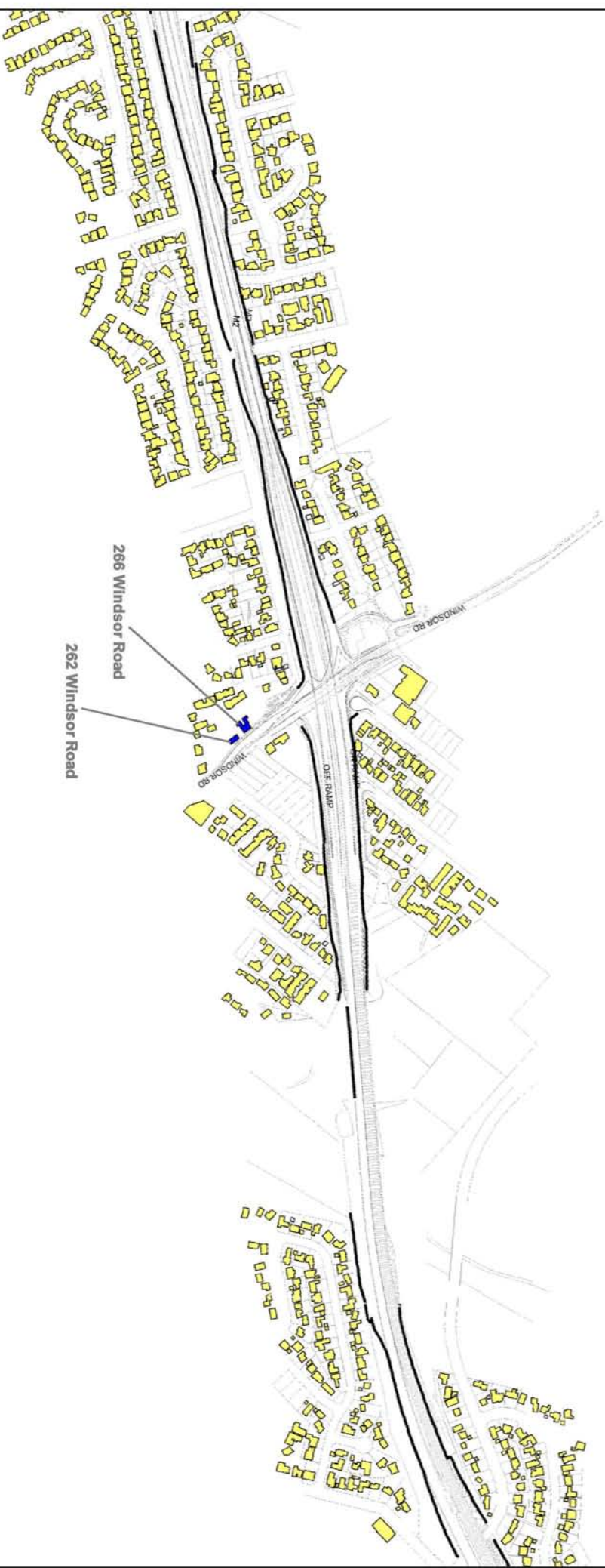
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200

FILE NAME  
10-7434R1 App F - Difference Plots - 1st.dwg

10-7434 M2 Upgrade Project  
2021 MINUS 2011 Difference Plots  
Ground Floor Buildings  
Page 1/7

DRAWING NO.  
10-7434\_Difference\_1st

REVISION  
0



Legend

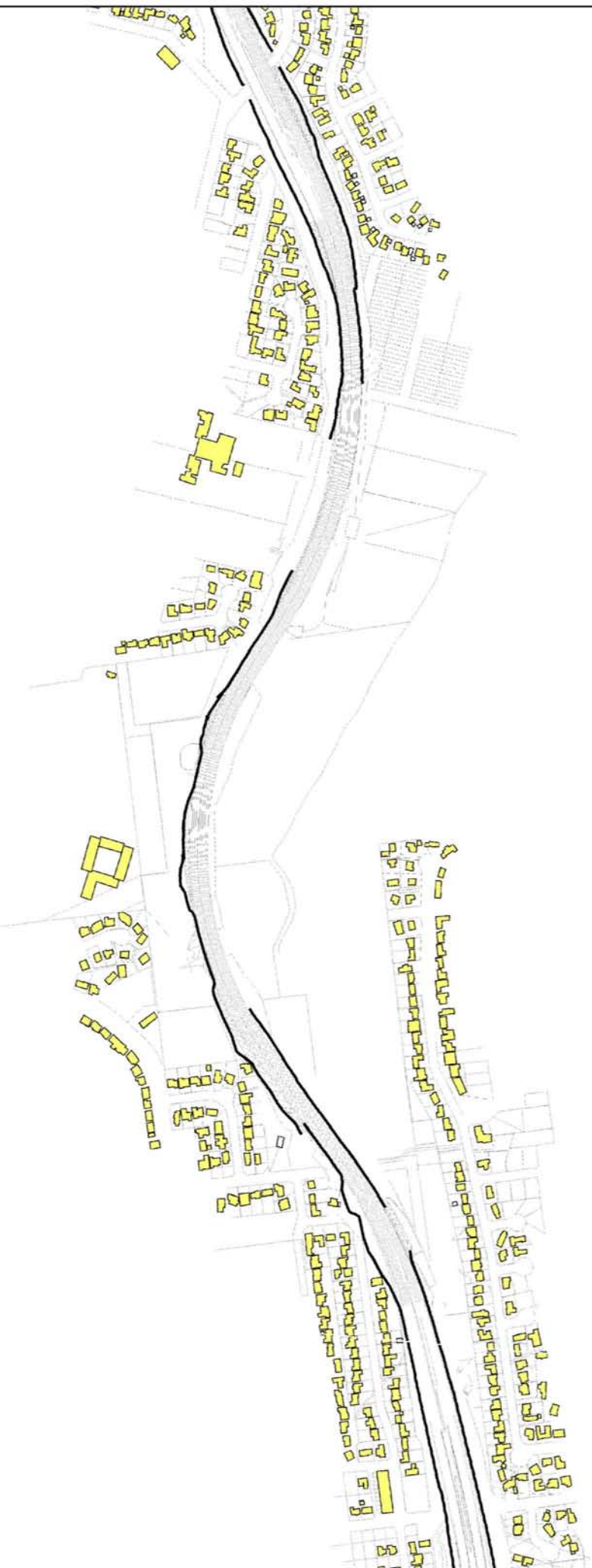
- > 2 dBA
- < 2 dBA

|                                                         |                               |                  |
|---------------------------------------------------------|-------------------------------|------------------|
| 0 18/12/09                                              | ALW                           | PG               |
| NEW DATE                                                | AMENDMENT / ISSUE DESCRIPTION | PREPARED CHECKED |
| FILE NAME: 10-7434R1 App F - Difference Plots - 1st.dwg |                               |                  |
| DRAWING No: 10-7434_Difference_1st                      |                               |                  |
| REVISION: 0                                             |                               |                  |



**Heggies Pty Ltd**  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address: sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200

**10-7434 M2 Upgrade Project**  
**2021 MINUS 2011 Difference Plots**  
**Ground Floor Buildings**  
**Page 217**



50 mm ON ORIGINAL

0 10 20 30 40 50

0 18/12/09  
NEW DATE AMENDMENT / ISSUE DESCRIPTION  
PREPARED  
CHECKED

ALW  
PG

Legend

- > 2 dBA
- < 2 dBA



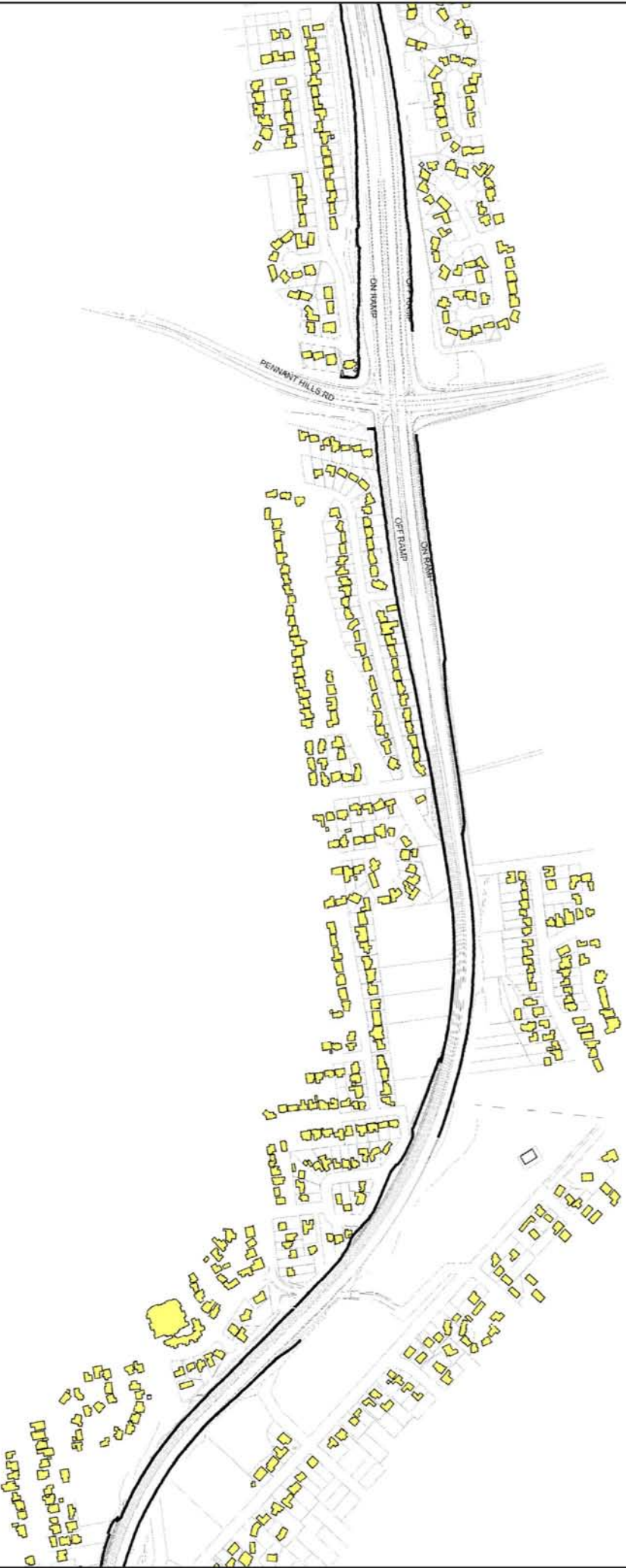
**Heggies Pty Ltd**  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200

FILE NAME  
10-7434R1 App F - Difference Plots - 1stdwg

10-7434 M2 Upgrade Project  
2021 MINUS 2011 Difference Plots  
Ground Floor Buildings  
Page 3/7

DRAWING NO.  
10-7434\_Difference\_1st

REVISION  
0



80 mm ON ORIGINAL

0 10 20 30 40 50

0 18/12/09  
NEW DATE AMENDMENT / ISSUE DESCRIPTION  
PREPARED  
CHECKED

ALW  
PG

Legend

- > 2 dBA
- < 2 dBA



**Heggies Pty Ltd**  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200

FILE NAME  
10-7434R1 App F - Difference Plots - 1stdwg

10-7434 M2 Upgrade Project  
2021 MINUS 2011 Difference Plots  
Ground Floor Buildings  
Page 4/7

DRAWING NO.  
10-7434\_Difference\_1st

REVISION  
0



80 mm ON ORIGINAL

|                                                                   |                               |                                                                                                                                                                                                                                                                                            |         |
|-------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0 10 20 30 40 50                                                  |                               | 10 20 30 40 50                                                                                                                                                                                                                                                                             |         |
| 0                                                                 | 18/12/09                      | ALW                                                                                                                                                                                                                                                                                        | PG      |
| NEW DATE                                                          | AMENDMENT / ISSUE DESCRIPTION | PREPARED                                                                                                                                                                                                                                                                                   | CHECKED |
|                                                                   |                               | <b>Legend</b><br><div><div></div> &gt; 2 dBA<br/><div></div> &lt; 2 dBA</div>                                                                                                                                                                                                              |         |
| <b>FILE NAME:</b><br>10-7434R1 App F - Difference Plots - 1st.dwg |                               | <br><b>Heggies Pty Ltd</b><br>2 Lincoln Street<br>Lane Cove NSW 2086 Australia<br>PO Box 176 Lane Cove NSW 1585<br>Email address sydney@heggies.com.au<br>Telephone 02 9427 6100 Facsimile 02 9427 8200 |         |
| <b>DRAWING NO:</b><br>10-7434_Difference_1st                      |                               | <b>10-7434 M2 Upgrade Project</b><br><b>2021 MINUS 2011 Difference Plots</b><br><b>Ground Floor Buildings</b><br><b>Page 5/7</b>                                                                                                                                                           |         |
|                                                                   |                               | <b>REVISION</b><br>0                                                                                                                                                                                                                                                                       |         |



Legend

- > 2 dBA
- < 2 dBA

|                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                      |         |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|---------|----|
| 0 10 20 30 40 50                                                                                                                                                                                                                                                                                                                                                |      | 80 mm ON ORIGINAL                                                                                    |         |    |
| 18/12/09                                                                                                                                                                                                                                                                                                                                                        | DATE | APPROVED / ISSUE DESCRIPTION                                                                         | ALW     | PG |
|                                                                                                                                                                                                                                                                                                                                                                 |      | PREPARED                                                                                             | CHECKED |    |
| <div>Legend</div> <div><div><div></div>&gt; 2 DBA</div><div><div></div>&lt; 2 DBA</div></div>                                                                                                                                                                                                                                                                   |      |                                                                                                      |         |    |
| <div><div></div><div><div>Heggies Pty Ltd</div><div>2 Lincoln Street,</div><div>Lane Cove NSW 2086 Australia</div><div>PO Box 178 Lane Cove NSW 1585</div><div>Email address sydney@heggies.com.au</div><div>Telephone 02 9427 8100 Facsimile 02 9427 8200</div></div></div> |      |                                                                                                      |         |    |
| FILE NAME:                                                                                                                                                                                                                                                                                                                                                      |      | 10-7434R1 App F - Difference Plots - 1stdwg                                                          |         |    |
| DRAWING No.                                                                                                                                                                                                                                                                                                                                                     |      | 10-7434 M2 Upgrade Project<br>2021 MINUS 2011 Difference Plots<br>Ground Floor Buildings<br>Page 6/7 |         |    |
| REVISION:                                                                                                                                                                                                                                                                                                                                                       |      | 0                                                                                                    |         |    |



Heggies Pty Ltd  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address: sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200



Legend

- > 2 dBA
- < 2 dBA



Heggies Pty Ltd

2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address: sydney@heggies.com.au  
Telephone: 02 9427 6100 Facsimile: 02 9427 8200

FILE NAME: 10-7434R1 App F - Difference Plots - 1stdwg

10-7434 M2 Upgrade Project  
2021 MINUS 2011 Difference Plots  
Ground Floor Buildings  
Page 7/7

DRAWING No: 10-7434\_Difference\_1st

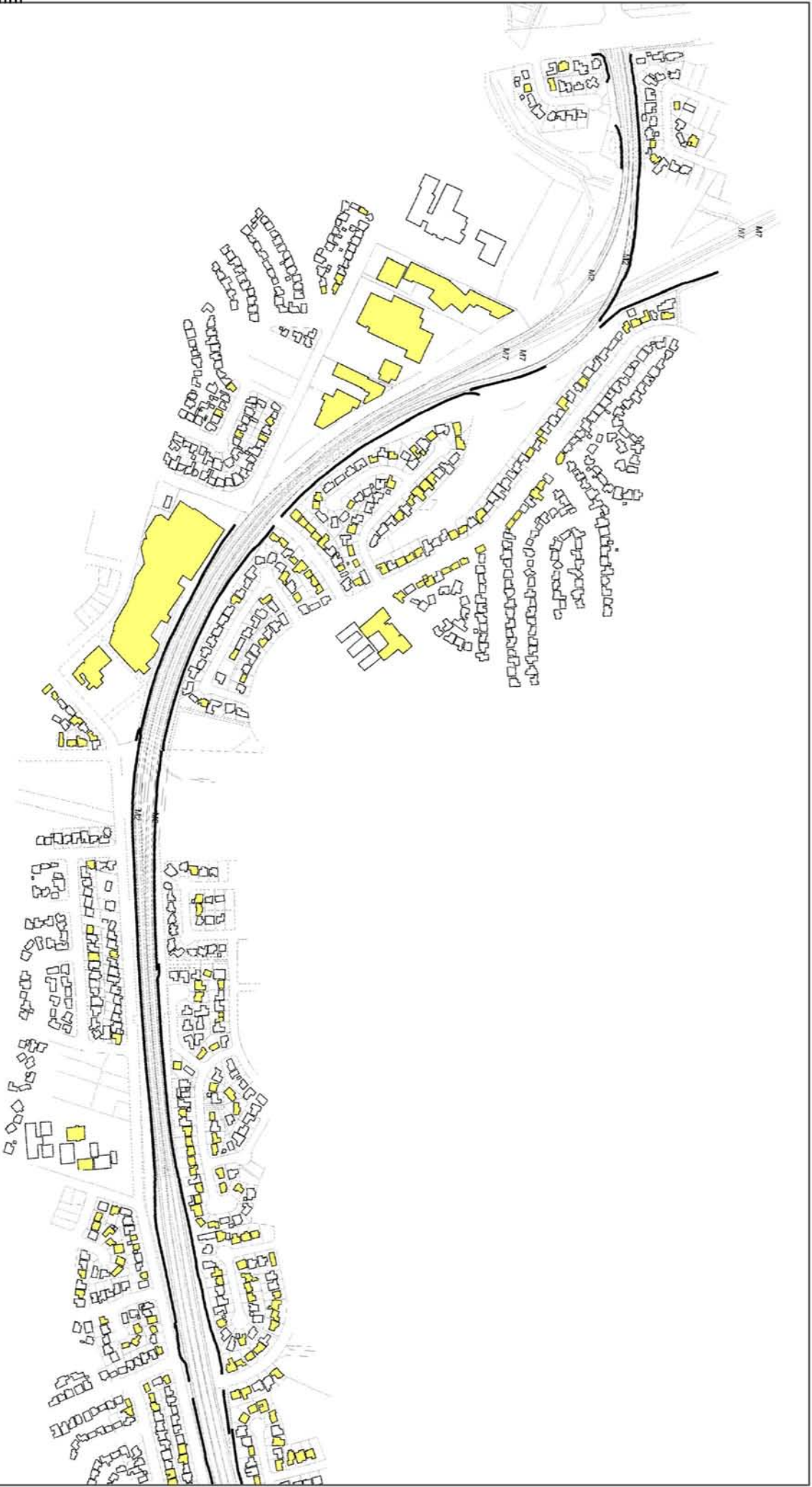
REVISION: 0

80 mm ON ORIGINAL

0 10 20 30 40 50  
NEW DATE APPENDMENT / ISSUE DESCRIPTION PREPARED CHECKED

ALW

PG



# Legend

- > 2 dBA
- < 2 dBA



**Heggies Pty Ltd**  
 2 Lincoln Street  
 Lane Cove NSW 2086 Australia  
 PO Box 176 Lane Cove NSW 1585  
 Email address sydney@heggies.com.au  
 Telephone 02 9427 6100 Facsimile 02 9427 8200

FILE NAME  
 10-7434R1 App F - Difference Plots - 2s.dwg

10-7434 M2 Upgrade Project  
 2021 MINUS 2011 Difference Plots  
 First Floor Buildings  
 Page 1/7

DRAWING NO.  
 10-7434\_Difference\_2st

REVISION  
 0

80 mm ON ORIGINAL

0 10 20 30 40 50  
 NEW DATE APPENDMENT / ISSUE DESCRIPTION  
 ALW PG  
 PREPARED CHECKED



Legend

- > 2 dBA
- < 2 dBA



Heggies Pty Ltd

2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1595  
Email address [sydney@heggies.com.au](mailto:sydney@heggies.com.au)  
Telephone 02 9427 6100 Facsimile 02 9427 8200

FILE NAME  
10-7434R1 App F - Difference Plots - 2st.dwg

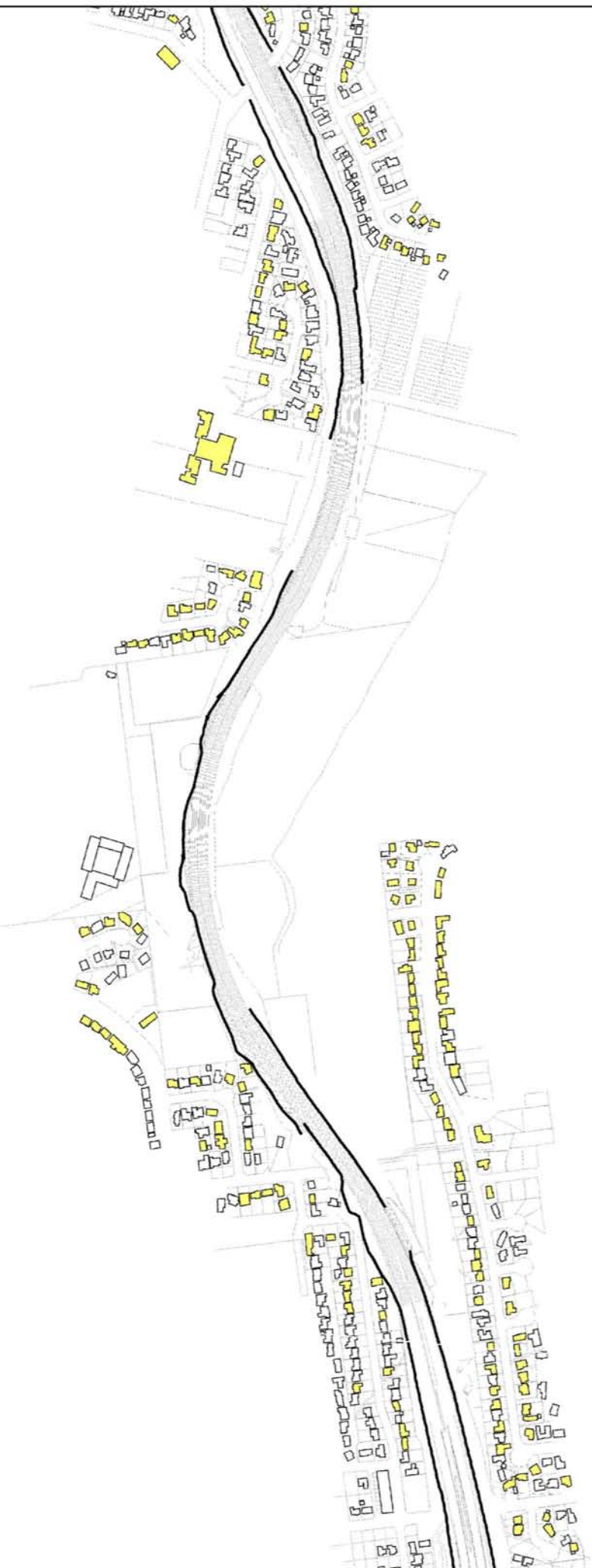
10-7434 M2 Upgrade Project  
2021 MINUS 2011 Difference Plots  
First Floor Buildings  
Page 217

DRAWING NO.  
10-7434\_Difference\_2st

REVISION  
0

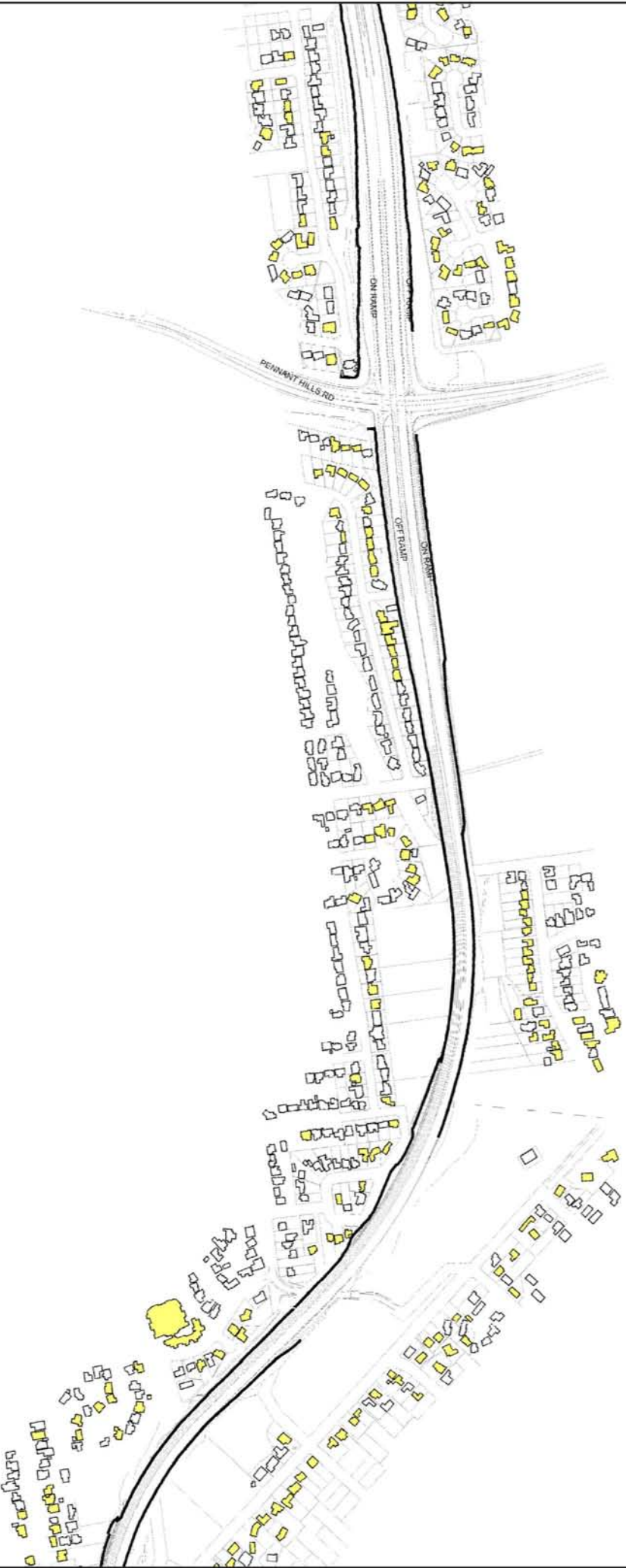
80 mm ON ORIGINAL  
0 10 20 30 40 50

0 18/12/09  
NEW DATE APPENDMENT / ISSUE DESCRIPTION  
ALW  
PG  
PREPARED CHECKED



50 mm ON ORIGINAL

|                                                                                                                                                                                                                                                                                                            |                              |                  |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|------------------|
| 0 10 20 30 40 50                                                                                                                                                                                                                                                                                           | 0 10 20 30 40 50             | 0 10 20 30 40 50 | 0 10 20 30 40 50 |
| NEW DATE                                                                                                                                                                                                                                                                                                   | APPENDIX / ISSUE DESCRIPTION | ALW              | PG               |
|                                                                                                                                                                                                                                                                                                            |                              | PREPARED         | CHECKED          |
| <div>Legend</div> <div><div>&gt; 2 dBA</div><div>&lt; 2 dBA</div></div>                                                                                                                                                                                                                                    |                              |                  |                  |
| <div>FILE NAME</div> <div>10-7434R1 App F - Difference Plots - 2s.dwg</div>                                                                                                                                                                                                                                |                              |                  |                  |
| <div><div>Heggies Pty Ltd<br/>2 Lincoln Street<br/>Lane Cove NSW 2086 Australia<br/>PO Box 176 Lane Cove NSW 1585<br/>Email address sydney@heggies.com.au<br/>Telephone 02 9427 6100 Facsimile 02 9427 8200</div></div> |                              |                  |                  |
| <div>DRAWING NO.</div> <div>10-7434_Difference_2st</div>                                                                                                                                                                                                                                                   |                              |                  |                  |
| <div>10-7434 M2 Upgrade Project<br/>2021 MINUS 2011 Difference Plots<br/>First Floor Buildings<br/>Page 3/7</div>                                                                                                                                                                                          |                              |                  |                  |
| <div>REVISION</div> <div>0</div>                                                                                                                                                                                                                                                                           |                              |                  |                  |



80 mm ON ORIGINAL

|                                                                                                                                                                                                                                                                                         |                               |                  |                  |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|------------------|------------------|
| 0 10 20 30 40 50                                                                                                                                                                                                                                                                        | 0 10 20 30 40 50              | 0 10 20 30 40 50 | 0 10 20 30 40 50 | 0 10 20 30 40 50 |
| NEW DATE                                                                                                                                                                                                                                                                                | AMENDMENT / ISSUE DESCRIPTION | PREPARED         | CHECKED          | PG               |
| 18/12/09                                                                                                                                                                                                                                                                                |                               | ALW              |                  | PG               |
| <b>Legend</b>                                                                                                                                                                                                                                                                           |                               |                  |                  |                  |
| <div><div></div> &gt; 2 dBA</div> <div><div></div> &lt; 2 dBA</div>                                                                                                                                                                                                                     |                               |                  |                  |                  |
| <b>FILE NAME:</b><br>10-7434R1 App F - Difference Plots - 2st.dwg                                                                                                                                                                                                                       |                               |                  |                  |                  |
|  <b>Heggies Pty Ltd</b><br>2 Lincoln Street<br>Lane Cove NSW 2086 Australia<br>PO Box 176 Lane Cove NSW 1585<br>Email address sydney@heggies.com.au<br>Telephone 02 9427 6100 Facsimile 02 9427 8200 |                               |                  |                  |                  |
| <b>DRAWING NO:</b><br>10-7434_Difference_2st                                                                                                                                                                                                                                            |                               |                  |                  |                  |
| <b>10-7434 M2 Upgrade Project</b><br><b>2021 MINUS 2011 Difference Plots</b><br><b>First Floor Buildings</b><br><b>Page 4/7</b>                                                                                                                                                         |                               |                  |                  |                  |
| <b>REVISION:</b><br>0                                                                                                                                                                                                                                                                   |                               |                  |                  |                  |



80 mm ON ORIGINAL

|                                                                                                                                                                                                                                                                                                                                                      |                               |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|
| 0 18/12/09                                                                                                                                                                                                                                                                                                                                           | ALW                           | PG               |
| NEW DATE                                                                                                                                                                                                                                                                                                                                             | AMENDMENT / ISSUE DESCRIPTION | PREPARED CHECKED |
| <div>Legend</div> <div><div>&gt; 2 dBA</div><div>&lt; 2 dBA</div></div>                                                                                                                                                                                                                                                                              |                               |                  |
| <div>FILE NAME:</div> <div>10-7434R1 App F - Difference Plots - 2st.dwg</div>                                                                                                                                                                                                                                                                        |                               |                  |
| <div><div><div>Heggies Pty Ltd</div><div>2 Lincoln Street</div><div>Lane Cove NSW 2086 Australia</div><div>P.O.Box 176 Lane Cove NSW 1585</div><div>Email address sydney@heggies.com.au</div><div>Telephone 02 9427 6100 Facsimile 02 9427 8200</div></div></div> |                               |                  |
| <div><div>DRAWING NO.</div><div>10-7434_M2 Upgrade Project</div><div>2021 MINUS 2011 Difference Plots</div><div>First Floor Buildings</div><div>Page 5/7</div></div>                                                                                                                                                                                 |                               |                  |
| <div><div>REVISION</div><div>0</div></div>                                                                                                                                                                                                                                                                                                           |                               |                  |



Legend

- > 2 dBA
- < 2 dBA

|                                                                                                     |                               |                  |
|-----------------------------------------------------------------------------------------------------|-------------------------------|------------------|
| 80 mm ON ORIGINAL                                                                                   |                               |                  |
| 0 10 20 30 40 50                                                                                    |                               |                  |
| 0 18/12/09                                                                                          | ALW                           | PG               |
| NEW DATE                                                                                            | AMENDMENT / ISSUE DESCRIPTION | PREPARED CHECKED |
| 10-7434R1 App F - Difference Plots - 2st.dwg                                                        |                               |                  |
| 10-7434 M2 Upgrade Project<br>2021 MINUS 2011 Difference Plots<br>First Floor Buildings<br>Page 6/7 |                               |                  |
| 10-7434_Difference_2st                                                                              |                               |                  |
| 0                                                                                                   |                               |                  |



Heggies Pty Ltd  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200



Legend

- > 2 dBA
- < 2 dBA

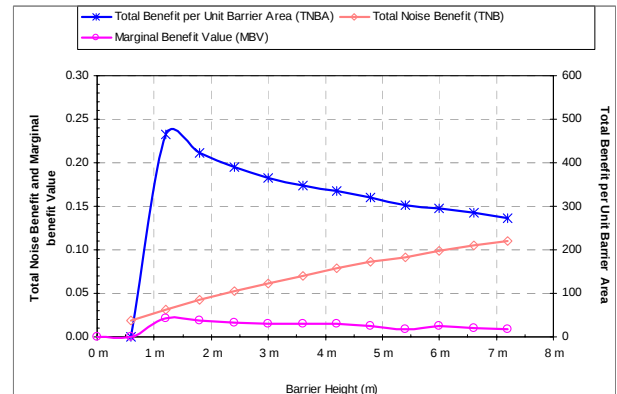
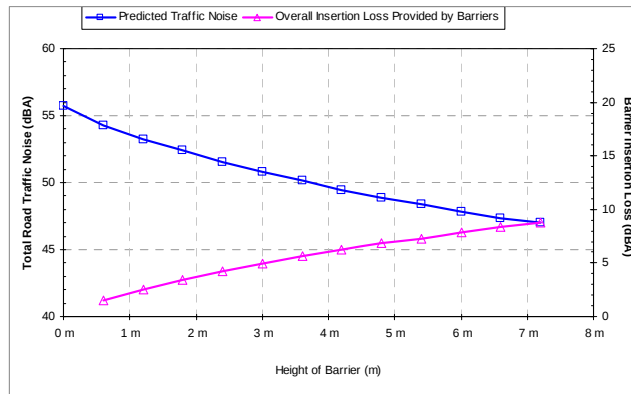


**Heggies Pty Ltd**  
2 Lincoln Street  
Lane Cove NSW 2086 Australia  
PO Box 176 Lane Cove NSW 1585  
Email address sydney@heggies.com.au  
Telephone 02 9427 6100 Facsimile 02 9427 8200

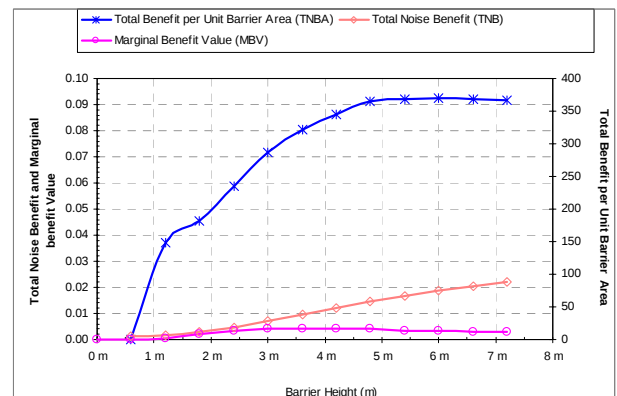
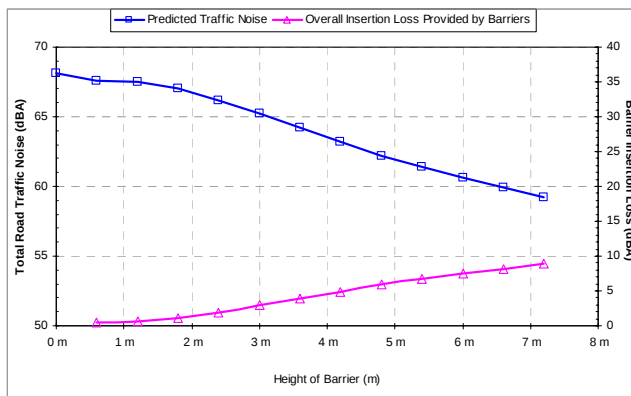
|                                                                                                     |                              |                  |
|-----------------------------------------------------------------------------------------------------|------------------------------|------------------|
| 0 18/12/09                                                                                          | ALW                          | PG               |
| NEW DATE                                                                                            | APPENDIX / ISSUE DESCRIPTION | PREPARED CHECKED |
| 10-7434R1 App F - Difference Plots - 2st.dwg                                                        |                              |                  |
| 10-7434 M2 Upgrade Project<br>2021 MINUS 2011 Difference Plots<br>First Floor Buildings<br>Page 7/7 |                              |                  |
| 10-7434_Difference_2st                                                                              |                              |                  |
| 0                                                                                                   |                              |                  |

50 mm ON ORIGINAL

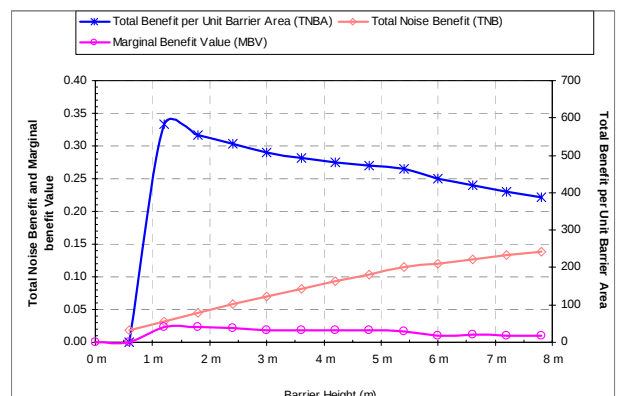
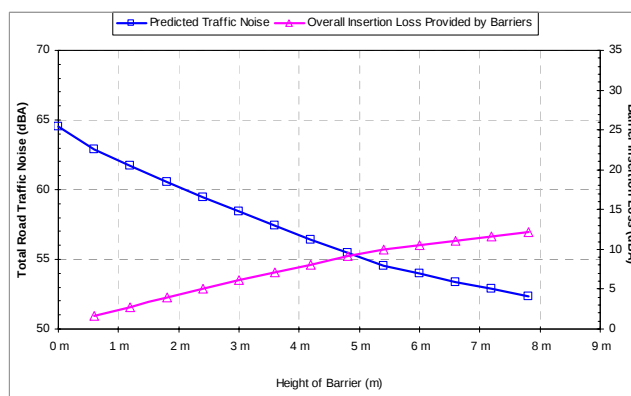
### NW-E-1001



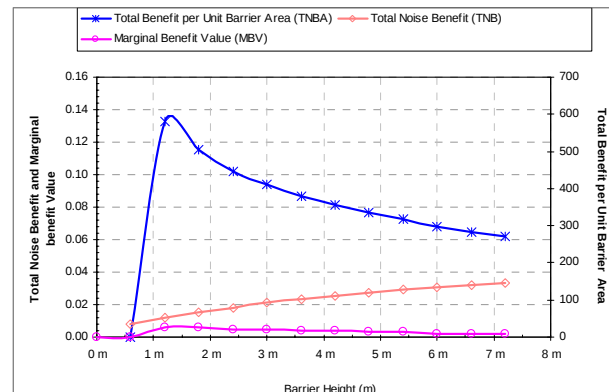
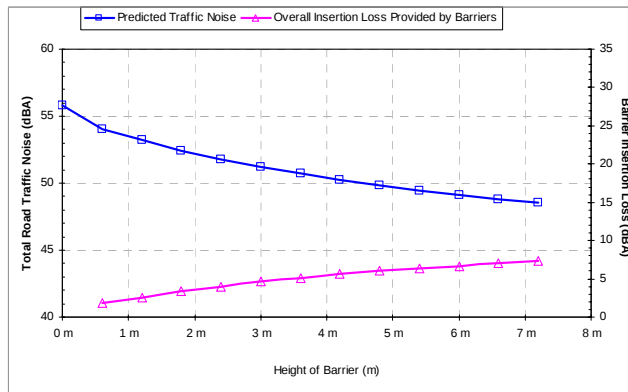
### NW-E-1002



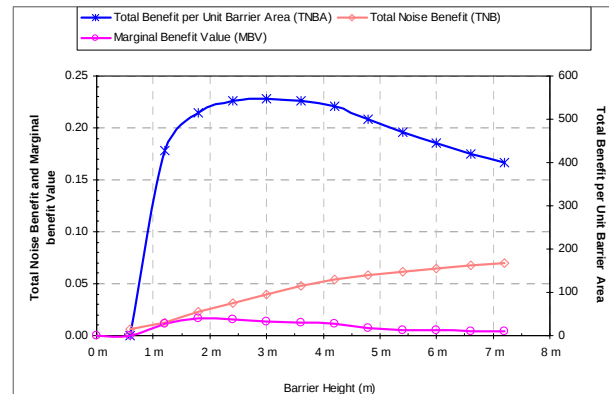
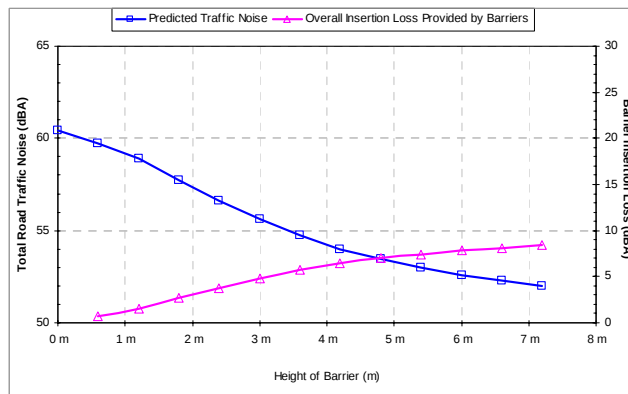
### NW-E-3003



### NW-W-1001



### NW-W-3001



The **Total Noise Benefit (TNB)** for each barrier height option is the sum of the dBA reductions achieved (taking account of all road traffic noise sources) at all residences and other noise sensitive receivers within each segment for each barrier height.

The **Marginal Benefit Value (MBV)** for a particular barrier height option is the increase in Total Noise Benefit (TNB) divided by the increase in barrier height or area. The methodology assumes barrier costs are proportional to barrier areas and are hence proportional to barrier heights, even though other factors such as barrier material will also have an influence on costs.

The **Total Benefit per Unit Barrier Area (TNBA)** is the Total Noise Benefit (TNB) divided by the total area of the barrier in the road section being examined.