

**ENTRY ZONE**  
 ALLOWS BUS TO PULL IN TO WITHIN 200MM OF KERB.  
 VEHICLE CROSSOVERS NORMALLY ACCEPTABLE.  
 KEEP FURNITURE SUITABLY SET BACK FROM KERB.



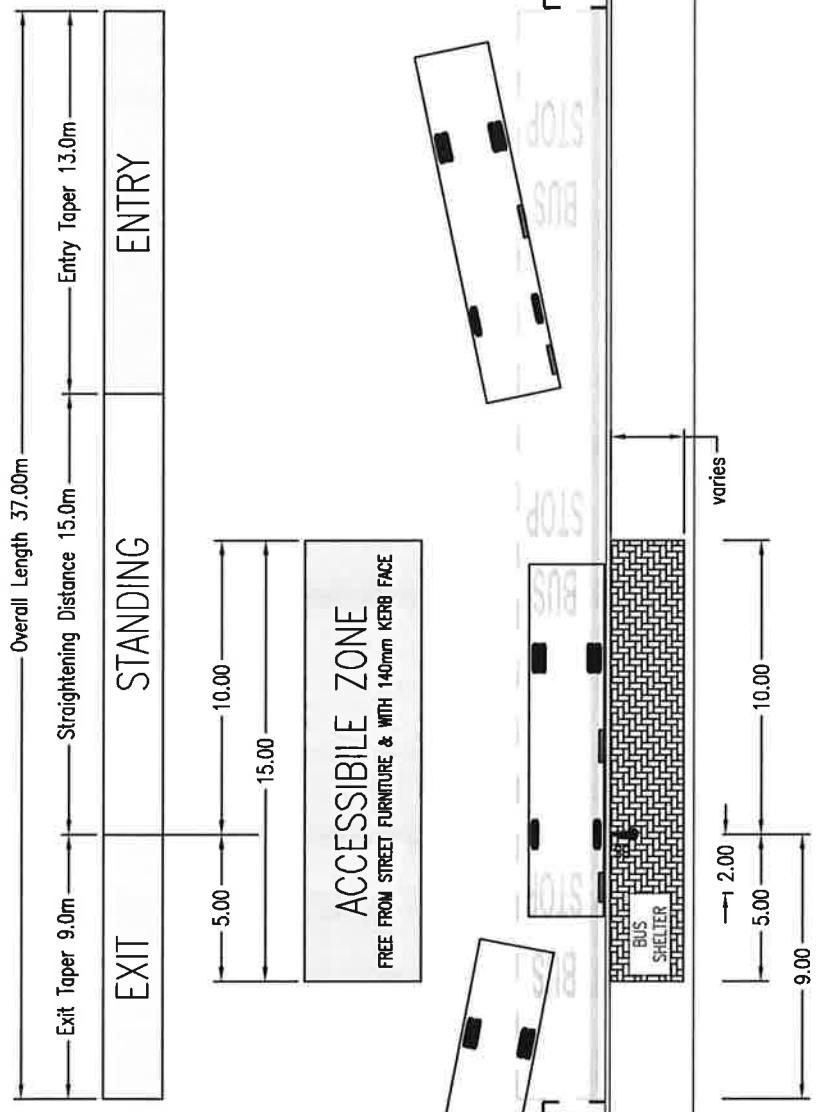
**STANDING ZONE**  
 ALLOWS MOST STANDING BUSES TO STOP INCLUDING 10M DOUBLE DECKER & 12M SINGLE DECK.  
 CROSSOVERS SHOULD NOT BE PERMITTED. KEEP AREA WITHIN 2M OF KERB FREE OF FURNITURE  
 WHERE POSSIBLE TO ALLOW ACCESS TO DOORS OF BUS.



**EXIT ZONE**  
 ALLOWS BUS TO REJOIN TRAFFIC STREAM.  
 CROSSOVERS NOT ACCEPTABLE FOR FIRST 3M OF EXIT ZONE.  
 FURNITURE SHOULD BE ADEQUATELY SET BACK FROM KERB.



**ACCESSIBLE ZONE**  
 KERB FACE TO BE 130-150MM.  
 LENGTH ALLOWS TRANSITION FROM LOW KERB EITHER SIDE.  
 CROSSOVER SHOULD NOT BE PERMITTED.

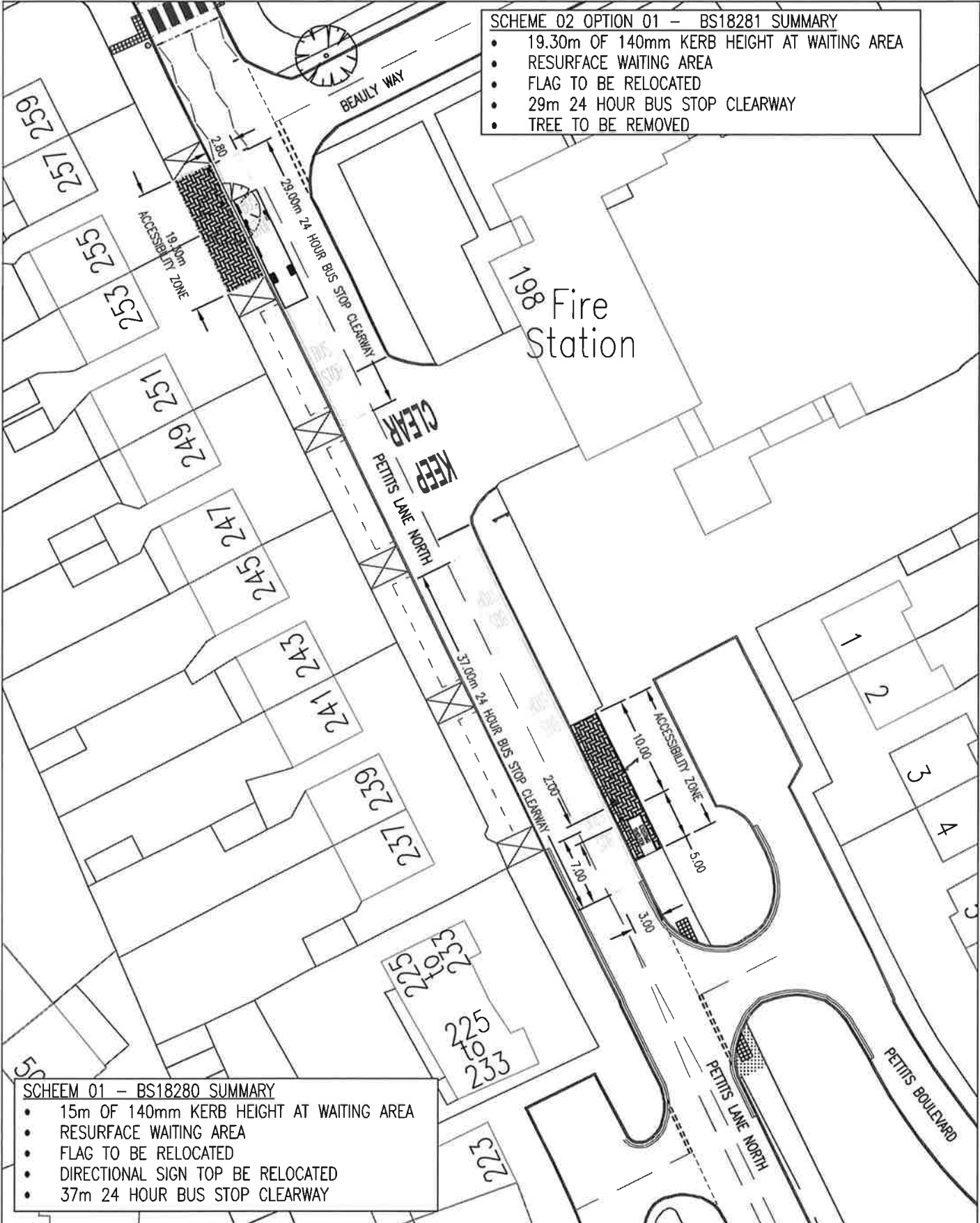


- NOTES:**
- LAYOUTS DETERMINED FROM STEERING GEOMETRY OF BUSES TO ALLOW THEM TO PULL INTO THE KERB WITHIN 200mm, WITHOUT FRONT AND REAR OF BUS OVERHANGING FOOTWAY WHICH COULD POSE A SAFETY ISSUE.
  - THIS IS THE IDEAL LAYOUT AND MAY VARY WITH THE USE OF FOOTWAY BUILD-OUTS (BUS BORDERS) OR OTHER SITUATIONS SUCH AS THE EXIT TO A PEDESTRIAN CROSSING.
  - ANY LAYOUT WHICH DOES NOT CONFORM TO THE IDEAL STANDARD REQUIRES CONSULTATION WITH STREETCARE TRAFFIC & ENGINEERING SECTION.

<b>Haverling</b> LONDON BOROUGH STREETCARE CULTURE & COMMUNITY TRAFFIC & ENGINEERING 10 <sup>th</sup> FLOOR MERCURY HOUSE MERCURY GARDENS, ROMFORD, RM1 3DW TELEPHONE No: 01708 434343 FAX No: 01708 43721 E-MAIL: streetcare@haverling.gov.uk		<b>JOB TITLE</b> HAVERING STREET DESIGN GUIDE PART 6 - STANDARD DETAILS <b>DRAWING TITLE</b> BUS STOP ACCESSIBILITY DETAIL LAYOUT 1		<b>DRAWN BY</b> RP <b>CHECKED BY</b> MLP <b>DATE</b> MAY 10 <b>SCALE (AT A4 SIZE)</b> N.T.S. <b>ACAD REF:</b> Ref 1 - Standard Detail <b>Sheet Size:</b> A4 (297x210)		<b>APPROVED BY</b> MLP <b>DATE</b> MAY 10 <b>DRAWING No</b> QB109/00/01 <b>REVISION</b> A B		<b>PURPOSE</b> INFORMATION <b>REVISION</b> A B <b>AMENDMENT</b> DRAWING UPDATE		<b>DATE</b> FEB 04	
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**SCHEME 02 OPTION 01 – BS18281 SUMMARY**

- 19.30m OF 140mm KERB HEIGHT AT WAITING AREA
- RESURFACE WAITING AREA
- FLAG TO BE RELOCATED
- 29m 24 HOUR BUS STOP CLEARWAY
- TREE TO BE REMOVED

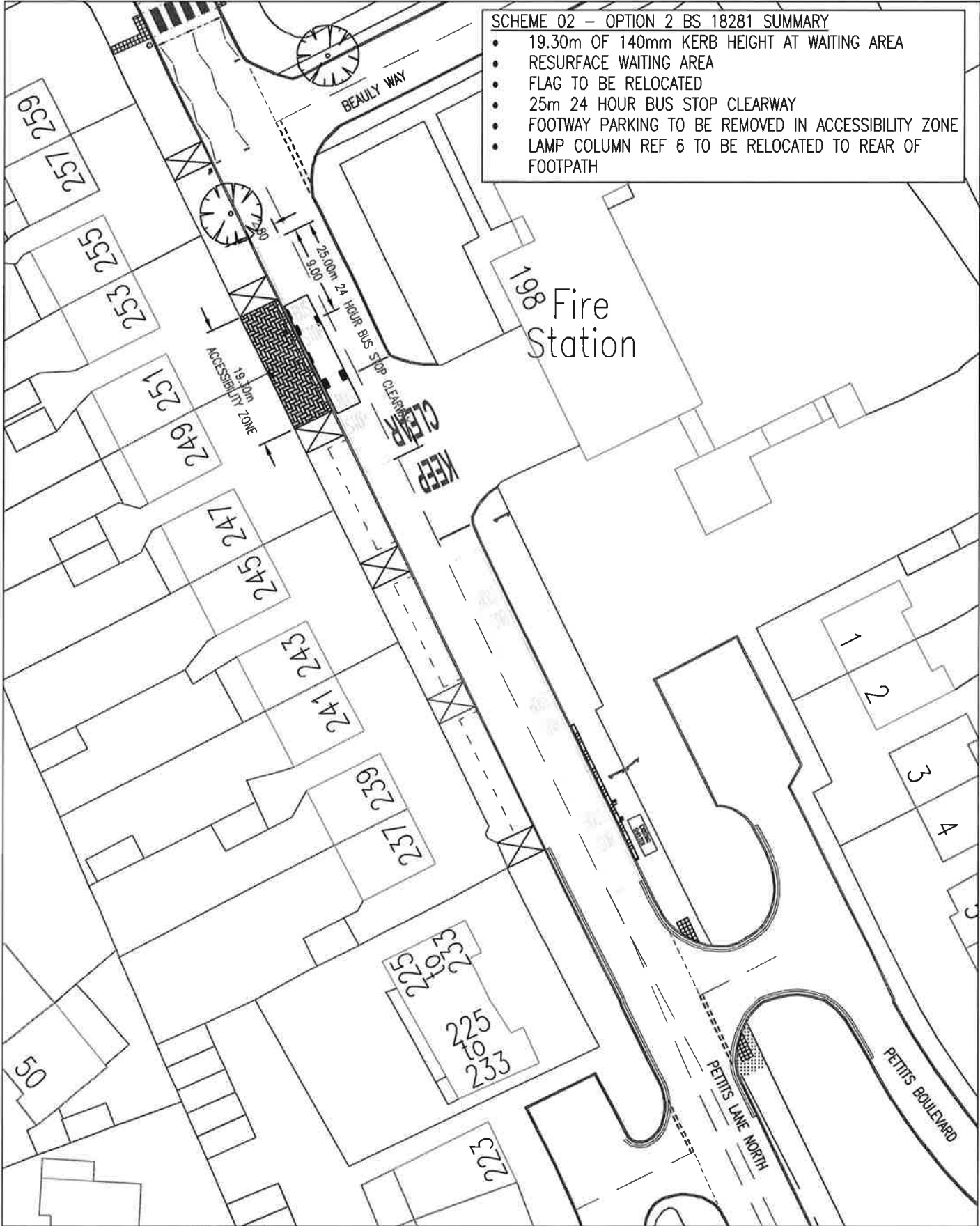


**SCHEEM 01 – BS18280 SUMMARY**

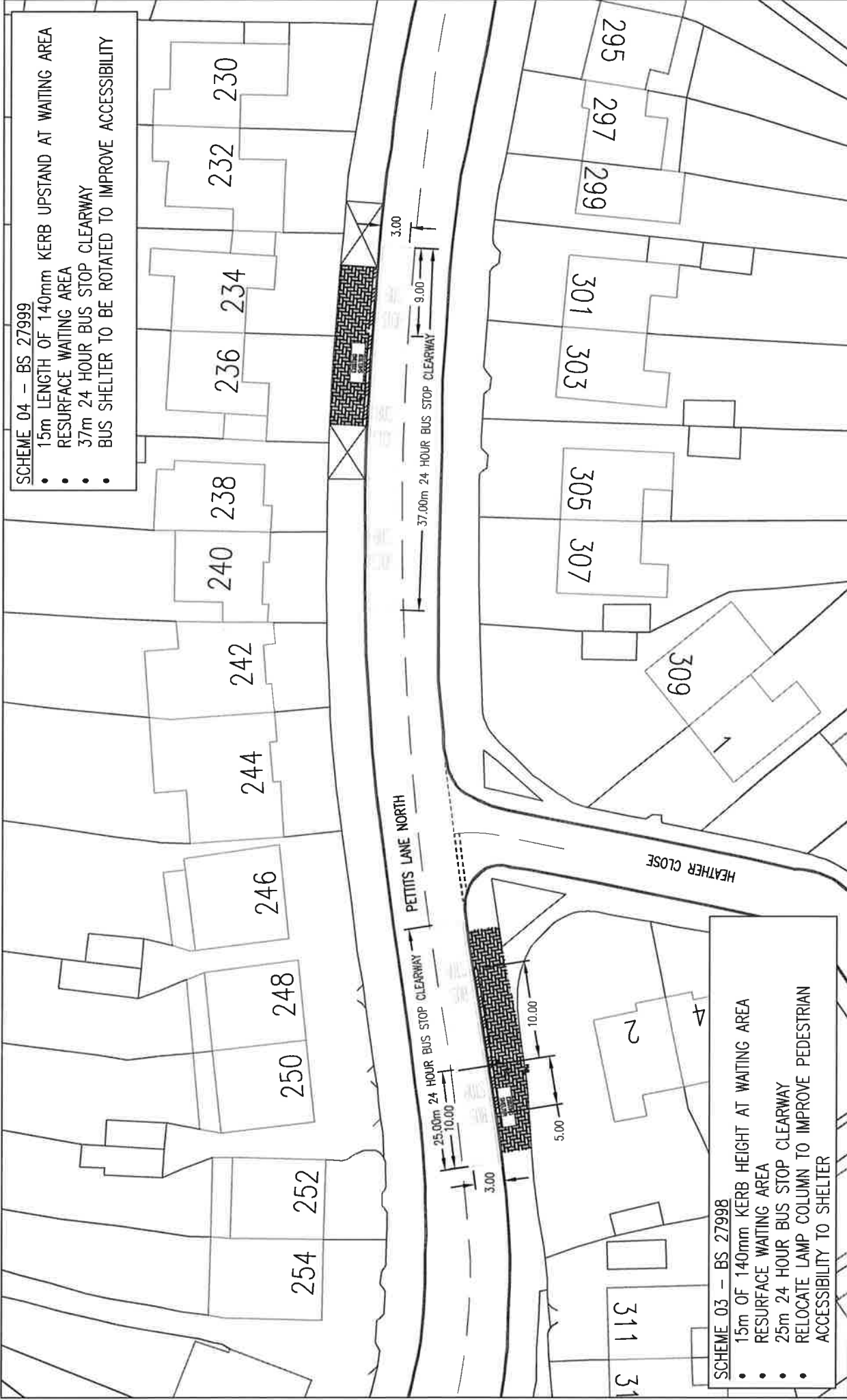
- 15m OF 140mm KERB HEIGHT AT WAITING AREA
- RESURFACE WAITING AREA
- FLAG TO BE RELOCATED
- DIRECTIONAL SIGN TOP BE RELOCATED
- 37m 24 HOUR BUS STOP CLEARWAY

<p><b>Havering</b> LONDON BOROUGH STREETCARE – CULTURE &amp; COMMUNITY</p>		<p>10th FLOOR MERCURY HOUSE MERCURY GARDENS TROWERS, 201 3RD TELEPHONE No: 01708 434343 FAX No: 01708 433721 E-MAIL: streetcare@havering.gov.uk</p>		<p><b>PURPOSE</b></p> <p>©COPYRIGHT This drawing belongs to StreetCare Culture &amp; Community, Traffic &amp; Engineering Section. Neither the whole nor any part thereof may be reproduced without prior written permission.</p>		<p><b>PROPOSAL</b></p> <p>Based upon Ordnance Survey Mapping with the permission of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. London Borough of Havering 100024327</p>			
<p><b>JOB TITLE</b> BSA ROUTE 103 &amp; 499 PETTITS LANE NORTH</p>				<p><b>DRAWN BY</b> RP</p>		<p><b>CHECKED BY</b> MLP</p>		<p><b>APPROVED BY</b> MLP</p>	
<p><b>DRAWING TITLE</b> HEATHER GARDENS BS18280 &amp; BS18281</p>				<p><b>ACAD REF:</b></p>		<p><b>DRAWING No</b> QM015-OF-101</p>		<p><b>REVISION</b> A</p>	
<p><b>SCALE (AT A4 SIZE)</b> 1:250</p>		<p><b>DATE</b> 23.05.13</p>		<p><b>DRAFT</b> ISSUE</p>		<p><b>Sheet Size: A4 (210x297)</b></p>		<p><b>REVISION</b>    <b>AMENDMENT</b></p>	
								<p><b>DATE</b></p>	

- SCHEME 02 – OPTION 2 BS 18281 SUMMARY**
- 19.30m OF 140mm KERB HEIGHT AT WAITING AREA
  - RESURFACE WAITING AREA
  - FLAG TO BE RELOCATED
  - 25m 24 HOUR BUS STOP CLEARWAY
  - FOOTWAY PARKING TO BE REMOVED IN ACCESSIBILITY ZONE
  - LAMP COLUMN REF 6 TO BE RELOCATED TO REAR OF FOOTPATH



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<p><b>DRAWING TITLE</b> SCHEME 02 – BS 18281 OPTION 2</p>				<p><b>ACAD REF:</b></p>		<p><b>DRAWING No</b> QM015-OF-201</p>		<p><b>REVISION</b> A</p>	
<p><b>SCALE (AT A4 SIZE)</b> 1:250</p>		<p><b>DATE</b> 23.05.13</p>		<p><b>DRAFT</b> ISSUE</p>		<p><b>REVISION</b></p>		<p><b>AMENDMENT</b></p>	
						<p><b>REVISION</b></p>		<p><b>AMENDMENT</b></p>	
						<p><b>DATE</b></p>			



**SCHEME 04 – BS 27999**

- 15m LENGTH OF 140mm KERB UPSTAND AT WAITING AREA
- RESURFACE WAITING AREA
- 37m 24 HOUR BUS STOP CLEARWAY
- BUS SHELTER TO BE ROTATED TO IMPROVE ACCESSIBILITY

**SCHEME 03 – BS 27998**

- 15m OF 140mm KERB HEIGHT AT WAITING AREA
- RESURFACE WAITING AREA
- 25m 24 HOUR BUS STOP CLEARWAY
- RELOCATE LAMP COLUMN TO IMPROVE PEDESTRIAN ACCESSIBILITY TO SHELTER

<p><b>Havering</b> STREETCARE CULTURE &amp; COMMUNITY TRAFFIC &amp; ENGINEERING 10th FLOOR MERCURY HOUSE MERCURY GARDENS, ROMFORD, RM1 3DW TELEPHONE No: 01708 434343 FAX No: 01708 433721 E-MAIL: streetcare@havering.gov.uk</p>		<p><b>JOB TITLE</b> BSA ROUTE 103 &amp; 499 PETTITS LANE NORTH</p>		<p><b>DRAWN BY</b> RP</p> <p><b>CHECKED BY</b> MLP</p> <p><b>APPROVED BY</b> MLP</p>		<p><b>PURPOSE</b></p>		<p><b>PROPOSAL</b></p>	
<p><b>DRAWING TITLE</b> HEATHER CLOSE BS27998 &amp; BS27999</p>		<p><b>SCALE (AT A4 SIZE)</b> 1:250</p> <p><b>DATE</b> 23.05.13</p> <p><b>DRAWING No</b> QM015-OF-102</p> <p><b>Sheet Size A4 (297x210)</b></p>		<p><b>DATE</b> 23.05.13</p> <p><b>REVISION</b> A</p>		<p><b>REVISION</b></p>		<p><b>AMENDMENT</b></p>	
<p><b>DATE</b></p>		<p><b>REVISION</b></p>		<p><b>AMENDMENT</b></p>		<p><b>DATE</b></p>		<p><b>DATE</b></p>	

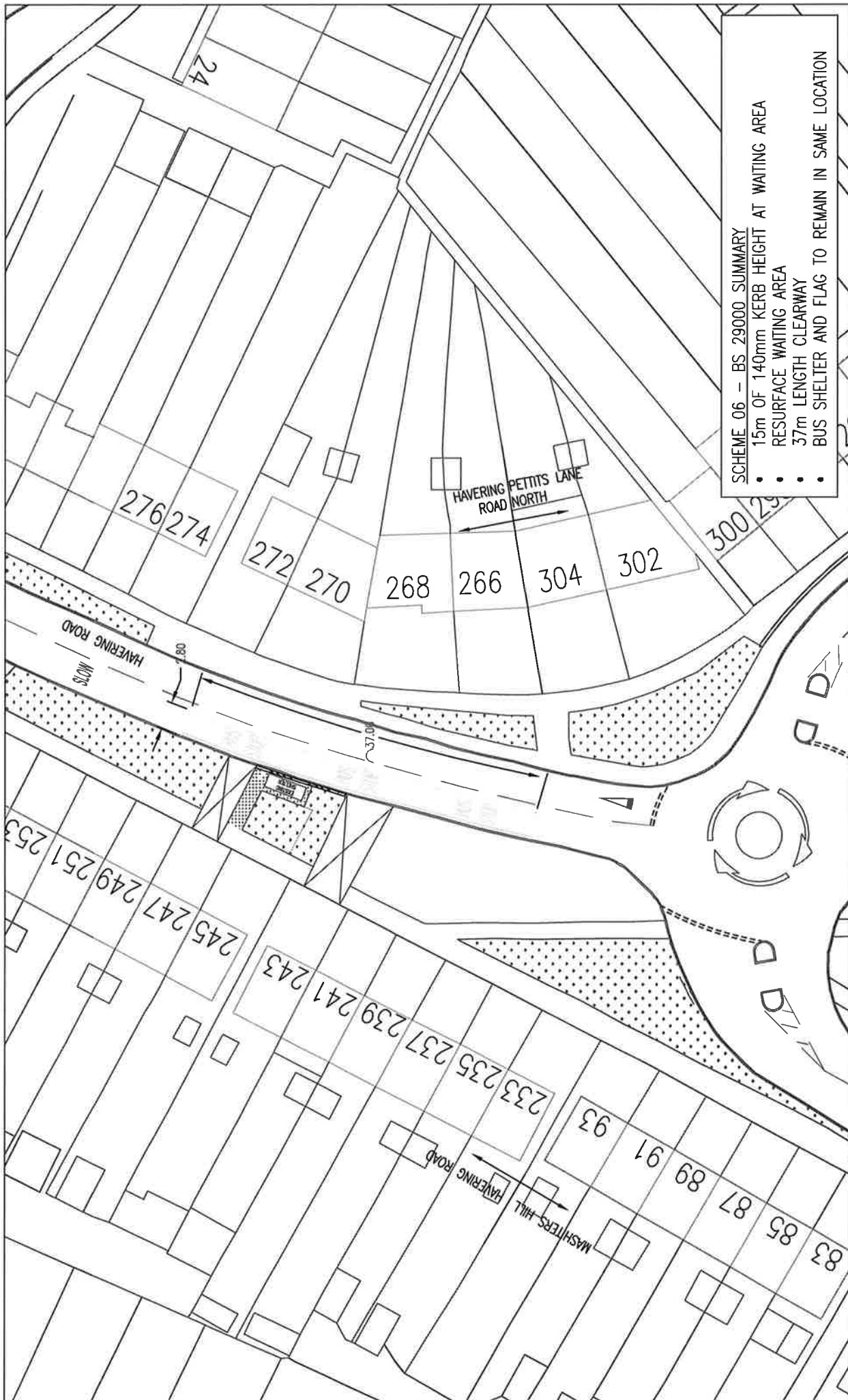
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**SCHEME 05 – BS 29001 SUMMARY**

- 37m LENGTH CLEARWAY
- RESURFACE WAITING AREA
- REPOSITION SHELTER IN FRONT OF DRAINAGE CHANNEL TO IMPROVE WALKING CONDITIONS FOR PEDESTRIANS

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<p><b>JOB TITLE</b> BSA ROUTE 103 &amp; 499 PETTITS LANE NORTH</p>		<p><b>DRAWN BY</b> RP</p>		<p><b>CHECKED BY</b> MLP</p>		<p><b>APPROVED BY</b> MLP</p>	
<p><b>DRAWING TITLE</b> MASHITERS HILL BS 29000</p>		<p><b>SCALE (AT A4 SIZE)</b> 1:250</p>		<p><b>DATE</b> 23.05.13</p>		<p><b>REVISION</b> A</p>	
<p><b>DRAFT</b></p>		<p><b>ACAD REF:</b></p>		<p><b>DRAWING No</b> QM015-OF-103</p>		<p><b>REVISION</b></p>	
<p><b>ISSUE</b></p>		<p>Sheet Size: A4 (210x297)</p>		<p><b>AMENDMENT</b></p>		<p><b>DATE</b></p>	

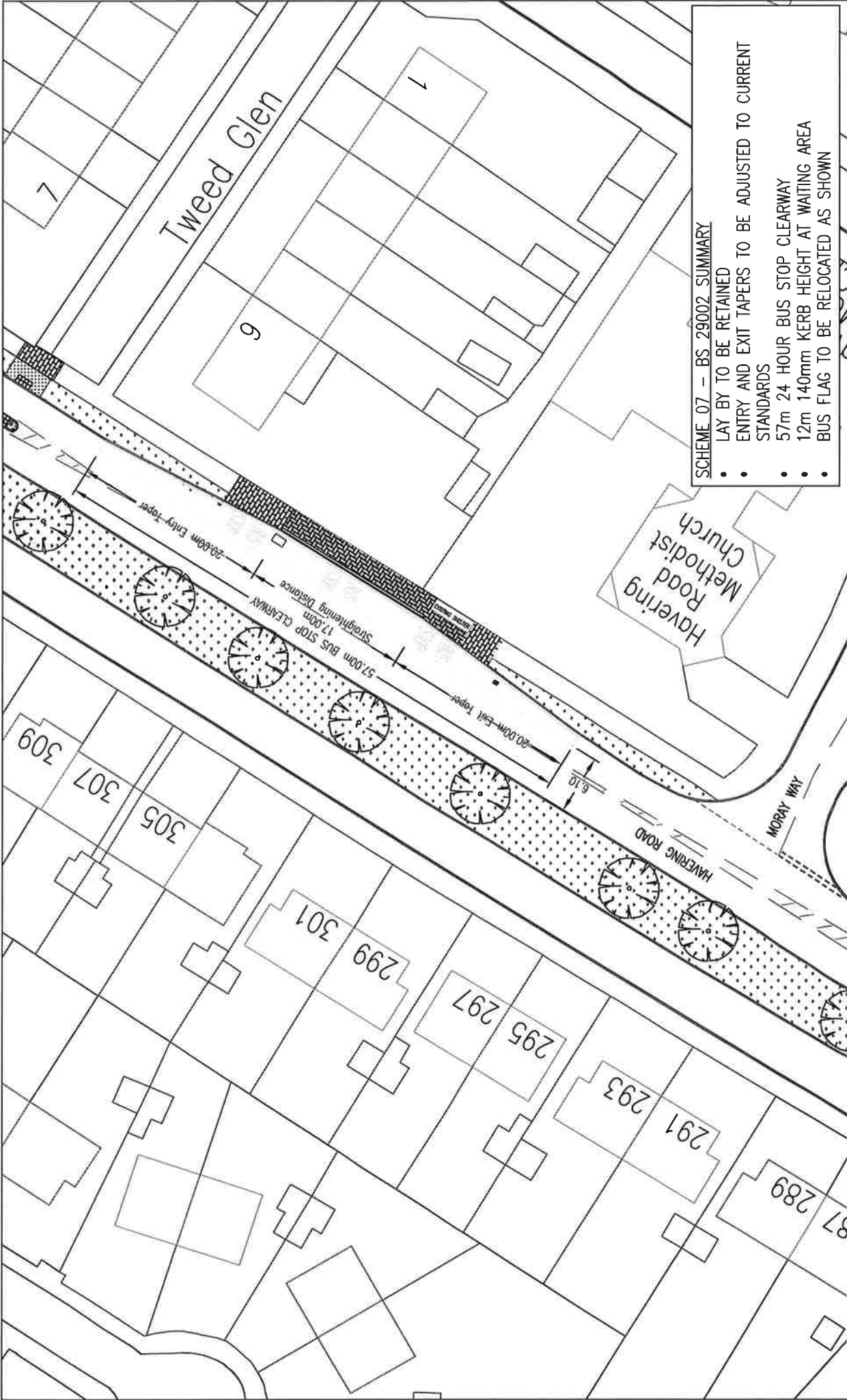


SCHEME 06 - BS 29000 SUMMARY  
 • 15m OF 140mm KERB HEIGHT AT WAITING AREA  
 • RESURFACE WAITING AREA  
 • 37m LENGTH CLEARWAY  
 • BUS SHELTER AND FLAG TO REMAIN IN SAME LOCATION

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<b>JOB TITLE</b> BSA ROUTE 103 & 499 HAVERING ROAD MASHETERS HILL BS 29001	
<b>Drawn by</b> RP SCALE (AT A4 SIZE) 1:250 ACAD REF: Sheet Size: A4 (297x210)	
<b>Checked by</b> MLP DATE 23.05.13 DRAWING No QM015-0F-104	
<b>Approved by</b> MLP <input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> ISSUE REVISION A	
<b>Purpose</b> PROPOSAL	
<b>Revision</b> AMENDMENT	
<b>Date</b>	

**Havering**  
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 STREETCARE CULTURE & COMMUNITY  
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 10th FLOOR MERCURY HOUSE  
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 TELEPHONE No: 01708 434343 FAX No: 01708 43721  
 E-MAIL: streetcare@havering.gov.uk





**SCHEME 07 - BS 29002 SUMMARY**

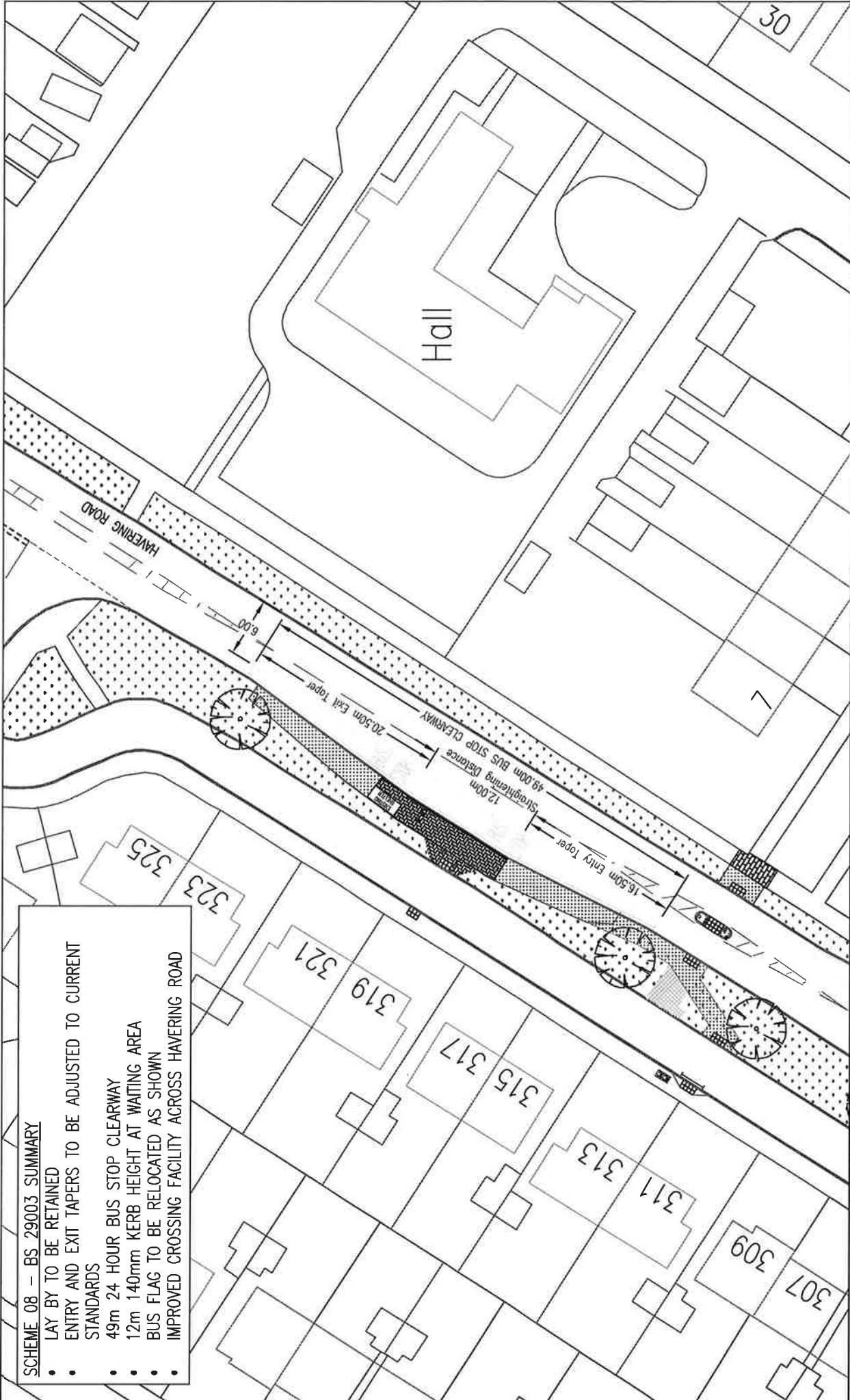
- LAY BY TO BE RETAINED
- ENTRY AND EXIT TAPERS TO BE ADJUSTED TO CURRENT STANDARDS
- 57m 24 HOUR BUS STOP CLEARWAY
- 12m 140mm KERB HEIGHT AT WAITING AREA
- BUS FLAG TO BE RELOCATED AS SHOWN

<b>Havering</b> STREETCARE CULTURE & COMMUNITY TRAFFIC & ENGINEERING 10th FLOOR MERCURY HOUSE MERCURY GARDENS, ROMFORD, RM1 3DW TELEPHONE No: 01708 453343 FAX No: 01708 43721 E-MAIL: streetcare@havering.gov.uk		<b>JOB TITLE</b> BSA ROUTE 103 & 499 HAVERING ROAD		<b>DRAWING TITLE</b> MORAY WAY BS 29002	
<b>DRAWN BY</b> RP	<b>CHECKED BY</b> MLP	<b>APPROVED BY</b> MLP	<b>PURPOSE</b>	<b>PROPOSAL</b>	<b>DATE</b>
<b>SCALE (AT A4 SIZE)</b> 1:250	<b>DATE</b> 23.05.13	<b>DRAFT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ACAD REF:</b>	<b>DRAWING No</b> QM015-OF-105	<b>REVISION</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Sheet Size A4 (297x210)</b>	<b>Revision A</b>	<b>AMENDMENT</b>	<b>REVISION</b>	<b>AMENDMENT</b>	<b>DATE</b>

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**SCHEME 08 - BS 29003 SUMMARY**

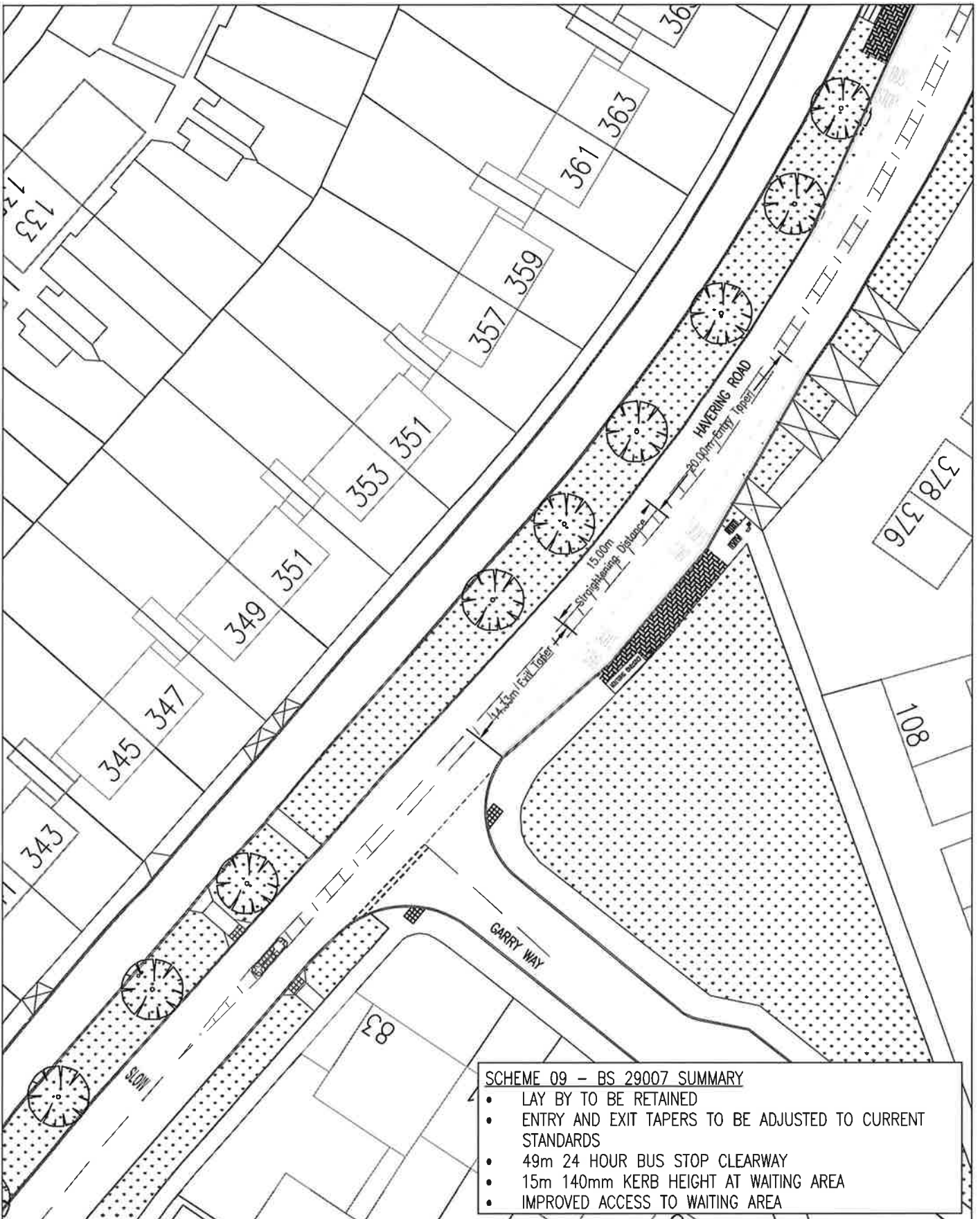
- LAY BY TO BE RETAINED
- ENTRY AND EXIT TAPERS TO BE ADJUSTED TO CURRENT STANDARDS
- 49m 24 HOUR BUS STOP CLEARWAY
- 12m 140mm KERB HEIGHT AT WAITING AREA
- BUS FLAG TO BE RELOCATED AS SHOWN
- IMPROVED CROSSING FACILITY ACROSS HAVERING ROAD



<p><b>Havering</b> TRAFFIC &amp; ENGINEERING 10th FLOOR MERCURY HOUSE MERCURY GARDENS, ROMFORD, RM1 3DW TELEPHONE No: 0709 434343 FAX No: 0709 433721 E-MAIL: streetcare@havering.gov.uk</p>	<p><b>JOB TITLE</b> BSA ROUTE 103 &amp; 499 HAVERING ROAD</p>		<p><b>DRAWN BY</b> RP</p>	<p><b>CHECKED BY</b> MLP</p>	<p><b>APPROVED BY</b> MLP</p>	<p><b>PURPOSE</b> B</p>	<p><b>PROPOSAL</b> tactile paving adjusted to cater for No 313 vehicle crossover</p>	<p><b>DATE</b> 03.09.13</p>	<p><b>DATE</b> 03.09.13</p>
	<p><b>DRAWING TITLE</b> MORAY WAY BS 29003</p>		<p><b>SCALE (AT A4 SIZE)</b> 1:250</p>	<p><b>DATE</b> 03.09.13</p>	<p><b>DRAFT</b> ISSUE</p>	<p><b>REVISION</b> A</p>	<p><b>REVISION</b> A</p>	<p><b>AMENDMENT</b> B</p>	<p><b>DATE</b> 23.05.13</p>

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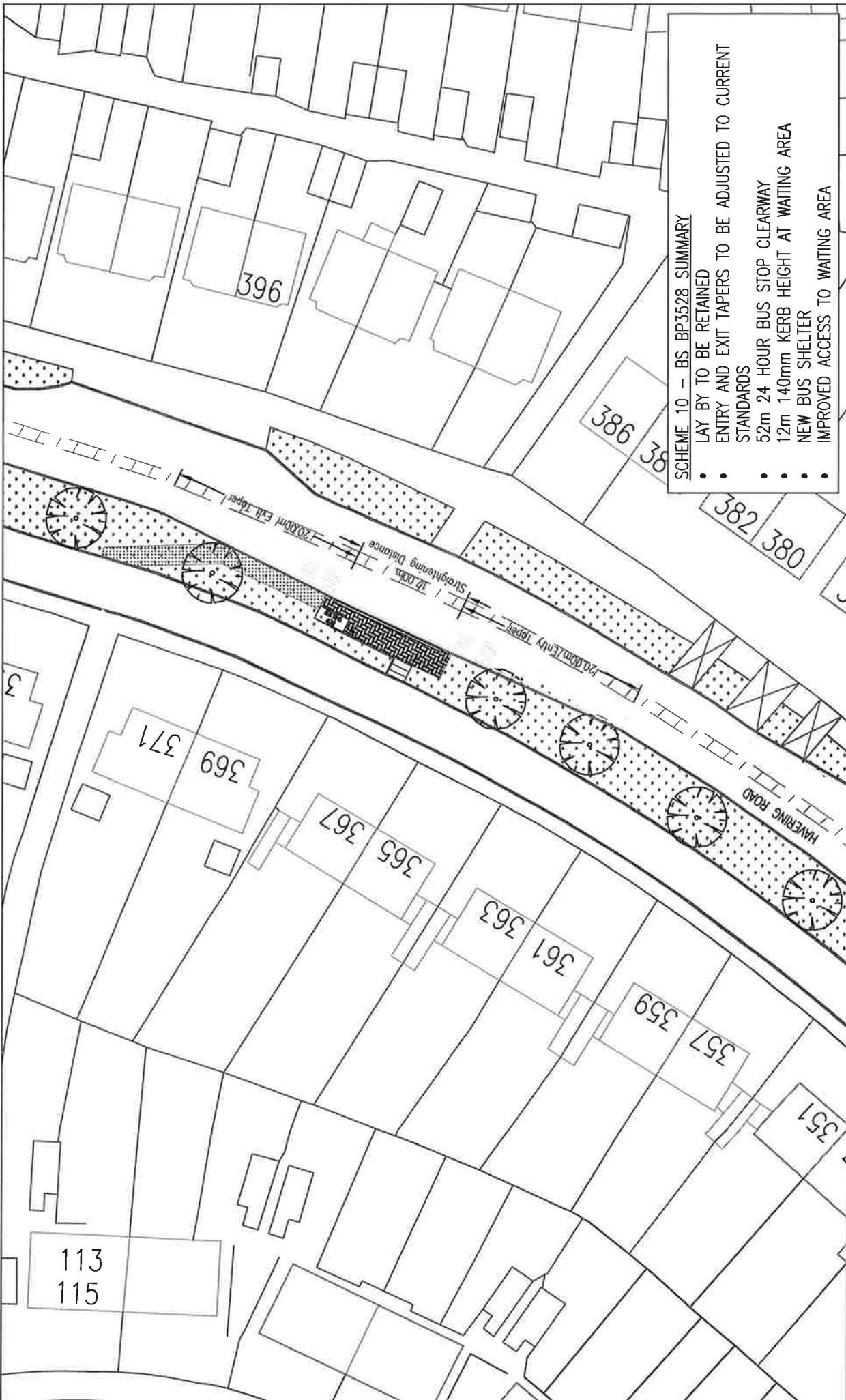




**SCHEME 09 - BS 29007 SUMMARY**

- LAY BY TO BE RETAINED
- ENTRY AND EXIT TAPERS TO BE ADJUSTED TO CURRENT STANDARDS
- 49m 24 HOUR BUS STOP CLEARWAY
- 15m 140mm KERB HEIGHT AT WAITING AREA
- IMPROVED ACCESS TO WAITING AREA

<p><b>Havering</b> LONDON BOROUGH STREETCARE - CULTURE &amp; COMMUNITY</p> <p>100 FLOOR MERCURY HOUSE MERCURY GARDENS ROMFORD, RM1 3DN TELEPHONE No: 01708 434343 FAX No: 01708 433721 E-MAIL: streetcare@havering.gov.uk</p>		<p><b>PURPOSE</b></p> <p>©COPYRIGHT This drawing belongs to StreetCare Culture &amp; Community, Traffic &amp; Engineering Section. Neither the whole nor any part thereof may be reproduced without prior written permission.</p> <p>Based upon Ordnance Survey Mapping with the permission of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. London Borough of Havering 100024327</p>		<p><b>PROPOSAL</b></p>	
<p><b>JOB TITLE</b> BSA ROUTE 103 &amp; 499 HAVERING ROAD</p>		<p><b>DRAWN BY</b> RP</p>		<p><b>CHECKED BY</b> MLP</p>	
<p><b>DRAWING TITLE</b> GARRY WAY BS 29007</p>		<p><b>APPROVED BY</b> MLP</p>			
<p><b>SCALE (AT A4 SIZE)</b> 1:250</p>	<p><b>DATE</b> 23.05.13</p>	<p><b>DRAFT</b> ISSUE</p>	<p><b>ACAD REF:</b> Sheet Size: A4 (210x297)</p>	<p><b>DRAWING No</b> QM015-OF-107</p>	<p><b>REVISION</b> A</p>
		<p><b>REVISION</b></p>		<p><b>AMENDMENT</b></p>	
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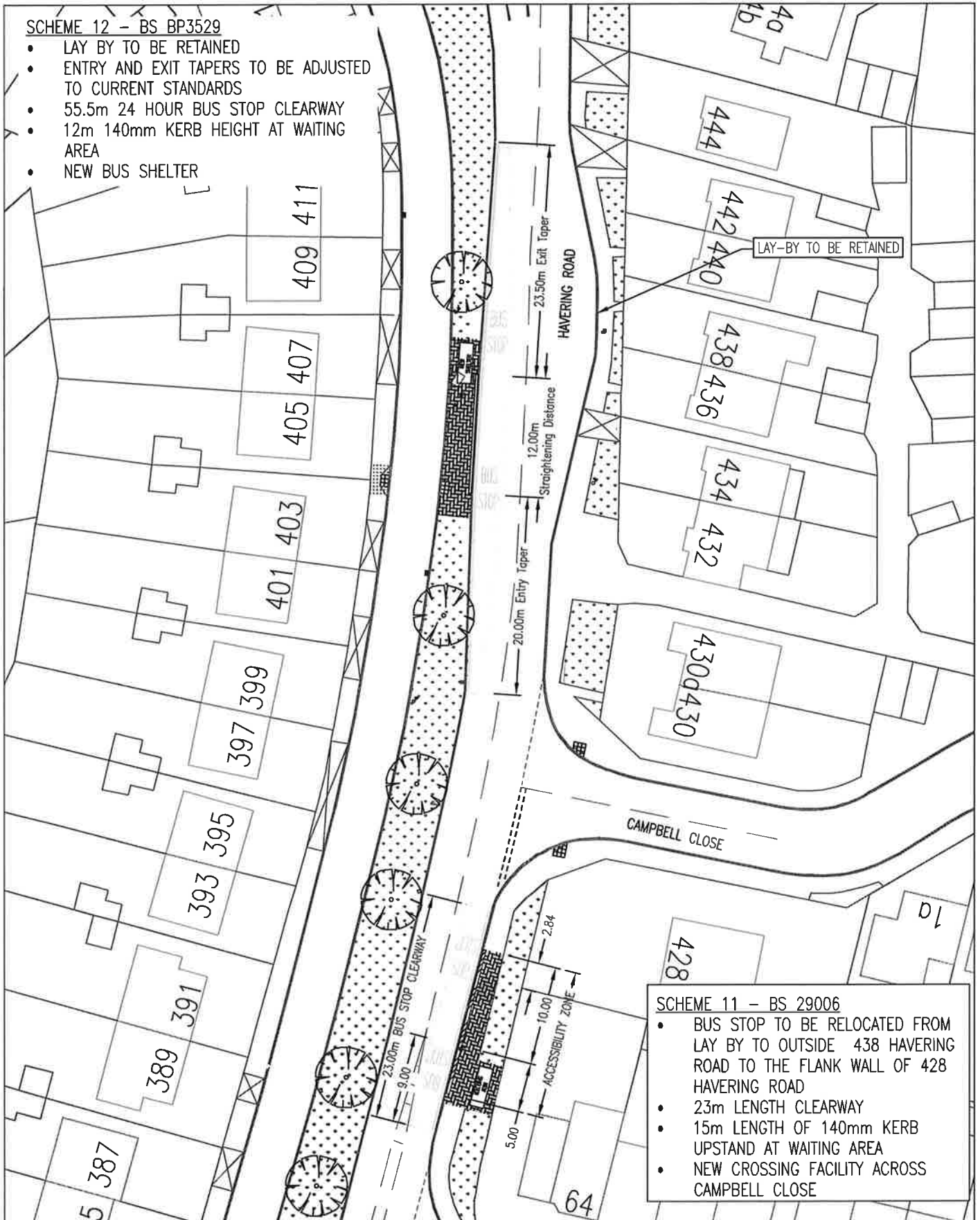
- SCHEME 10 – BS BP3528 SUMMARY**
- LAY BY TO BE RETAINED
  - ENTRY AND EXIT TAPERS TO BE ADJUSTED TO CURRENT STANDARDS
  - 52m 24 HOUR BUS STOP CLEARWAY
  - 12m 140mm KERB HEIGHT AT WAITING AREA
  - NEW BUS SHELTER
  - IMPROVED ACCESS TO WAITING AREA

<b>Haverling</b> LONDON BOROUGH STREETCARE CULTURE & COMMUNITY TRAFFIC & ENGINEERING 10th FLOOR MERCURY HOUSE MERCURY GARDENS, ROMFORD, RM1 3DW TELEPHONE No: 01708 434343 FAX No: 01708 433721 E-MAIL: streetcare@haverling.gov.uk	<b>JOB TITLE</b> BSA ROUTE 103 & 499 PETTITS LN NORTH & HAVERING RD		<b>DRAWN BY</b> RP	<b>CHECKED BY</b> MLP	<b>APPROVED BY</b> MLP	<b>PURPOSE</b> PROPOSAL	<b>PROPOSAL</b>
	<b>DRAWING TITLE</b> SCHEME 10 – BP 3528		<b>SCALE (AT A4 SIZE)</b> 1:250	<b>DATE</b> 23.05.13	<b>REVISION</b> A	<b>REVISION</b> A	<b>REVISION</b> AMENDMENT

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**SCHEME 12 - BS BP3529**

- LAY BY TO BE RETAINED
- ENTRY AND EXIT TAPERS TO BE ADJUSTED TO CURRENT STANDARDS
- 55.5m 24 HOUR BUS STOP CLEARWAY
- 12m 140mm KERB HEIGHT AT WAITING AREA
- NEW BUS SHELTER



**SCHEME 11 - BS 29006**

- BUS STOP TO BE RELOCATED FROM LAY BY TO OUTSIDE 438 HAVING ROAD TO THE FLANK WALL OF 428 HAVING ROAD
- 23m LENGTH CLEARWAY
- 15m LENGTH OF 140mm KERB UPSTAND AT WAITING AREA
- NEW CROSSING FACILITY ACROSS CAMPBELL CLOSE



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PURPOSE

PROPOSAL

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JOB TITLE  
BSA ROUTE 103 & 499  
HAVERING ROAD

DRAWING TITLE  
CAMPBELL CLOSE - BS 29006  
CHASE CROSS ROAD - BP 3529

DRAWN BY  
RP

CHECKED BY  
MLP

APPROVED BY  
MLP

SCALE (AT A4 SIZE)

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23.05.13

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