

**Beaufort Park (RAF Hendon)
S106 Agreement – Pedestrian Improvements**

**London Borough Of Barnet
Traffic And Development Section**

Scoping Report

Prepared by: Highways Design Team

To: Lisa Wright

Date: 28 May 2010

Ref No.: **S106/10_11/Aerodrome Rd/001**

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Revision A

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| 1 | Draft | M Jardim | 28/05/10 | A Aubert | 31/05/10 | | |
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1. Background:

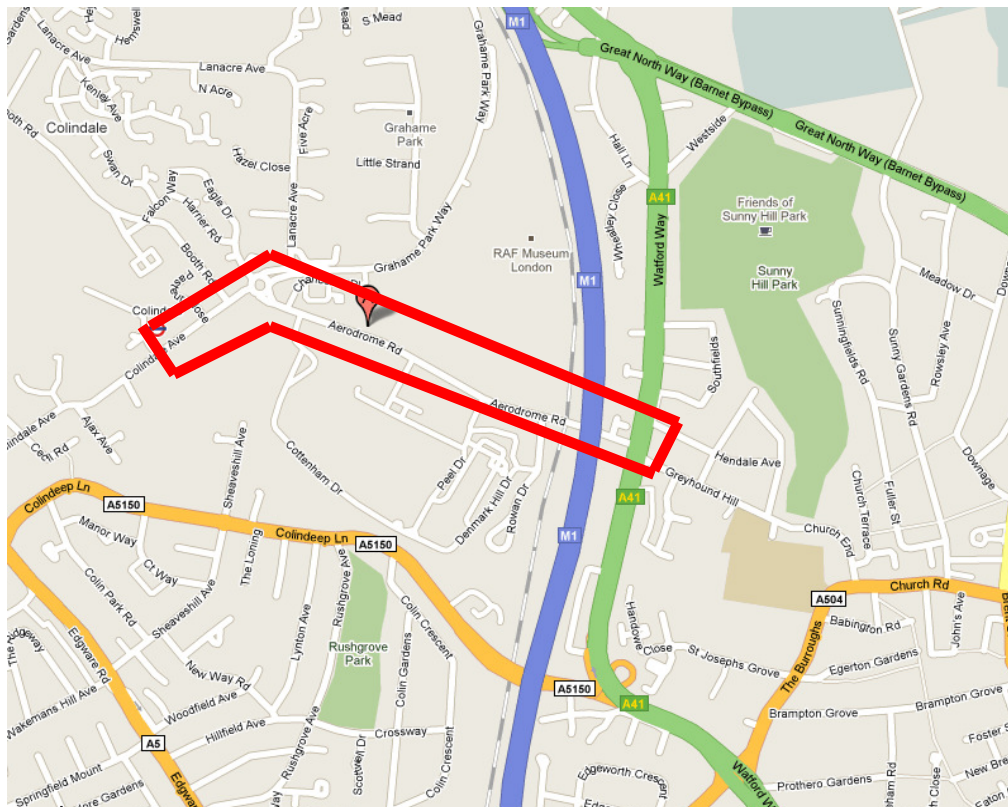
As part of the regeneration of Colindale Area, a planning obligation under agreement references 271 (I, ii, & iii) was secured from St George the developers of the Beaufort Park site to provide funds to improve the pedestrian environment in the area.

Utilising this allocation, Barnet Council has already spent £10,000 in 2009 in order to carry out essential safety improvements on Aerodrome Road by the Colindale Avenue Roundabout. Details of these safety improvements are given below and are also presented Appendix A:

- Provision of a new section of footway along the pedestrian desire line.
- Removal of potential trip hazards and safety improvements on the footway.

In light of the long term plans to remove the roundabout, realign Aerodrome Road and provide traffic signals at the newly created junction with Lanacre Avenue, the Council went on to identify medium and long term measures to improve the pedestrian environment both before and after the creation of this new junction.

This report presents the Council's findings in relation to the medium terms improvements and gives recommendations on the need for further work to take place in the long term. The measures identified seek to improve pedestrian safety and promote walking as safe and sustainable mode of transport in the area surrounding the development site.



Site Location Plan

2. Site Observations:

Refer to Appendix B for a plan of the existing highway layout of Aerodrome Road and Colindale Avenue. Two site visits were carried out on 24th March and 19th May 2010 between the hours of 8:00am and 14:30pm during which the following observations were made:

Aerodrome Road

- No pedestrian crossing points are present along the length of Aerodrome Road other than at the Colindale Roundabout and the Watford Way junctions.
- Approximately 70% of the footway surface along Aerodrome Road is asphalt and the remaining 30% is precast concrete paving slabs which is in a relatively good condition.
- The junction of Watford Way and Aerodrome Road does not allow for direct, convenient access for pedestrians by means of a surface crossing. There is however a pedestrian subway which is used extensively by pedestrians travelling east towards Greyhound Hill.
- The traffic island on Aerodrome Road at the Watford Way junction is of a sub standard width and therefore doesn't provide adequate protection to pedestrians.
- There are three bus stops on Aerodrome Road for bus route 186. One located on the northern footway at the Heritage Avenue junction and the other two located opposite one another by the Rowan Road junction. All the existing bus stops are fully accessible.
- Concrete bollards are present on the southern side of Aerodrome Road along the kerb line outside the Metropolitan Police Training Department. The Metropolitan Police have been confirmed these to be necessary for security reasons.

Colindale Avenue (including the roundabout)

- Except for the zebra crossing over the railway bridge, two uncontrolled pedestrian crossing points with central refuges are present along Colindale Avenue, one outside number 162 and the other outside number 166. In addition to these a number of uncontrolled crossings are present along the side roads. Some of these crossing points do not have dropped kerbs and have sub-standard provision for or tactile paving which can create difficulties for disabled pedestrians.
- The concrete bollards present on the northern footway of Colindale Avenue outside number 187 were originally intended to deter vehicles from parking on the footway. These are no longer required due to the new waiting restrictions provided.
- The use of pedestrian guard rails on the Colindale Avenue/Aerodrome Road roundabout appears to be excessive. As well as being visually intrusive they decrease the footway width available for pedestrians.
- There are various sections of uneven footway and low kerb heights along Colindale Avenue.
- There is one bus stop on Colindale Avenue within extents of the study, located opposite the Pasteur Close junction. The bus stop is fully accessible and includes a bus shelter located at the front edge of the footway.

3. Accident Survey:

36 months accident information dated between 01.06.2007 and 01.06.2010 was obtained from Accsmap. A short summary of the information is given below:

3.1 Aerodrome Road

- 1 Serious and 6 slight accidents were reported in Aerodrome Road in the last 3 years.
- 1 of the accidents was pedestrian related, 1 accident involved a large goods vehicle and the remaining 5 involved vehicle collision accidents. There were no cycle related accidents.
- The majority of the accidents took place at peak time traffic periods in the middle of the week in the winter season. The accidents were unlikely to be related to ineffective street lighting levels as only 2 occurred in the hours of darkness.

Full details of the accident data for Aerodrome Road are given in Appendix C – sheet 1 of 2.

3.2 Colindale Avenue (including the roundabout)

- 1 Serious and 6 slight accidents were reported in Colindale Avenue in the last 3 years within the extents of the area of the study undertaken.
- None of the accidents were pedestrian related, 1 accident involved a large goods vehicle and the remaining 6 involved vehicle collision accidents. There were 2 cycle related accidents with one of these being serious.
- The majority of the accidents took place at peak time traffic periods in the middle of the week in the winter season. Accidents are unlikely to be related to poor street lighting as only 1 accident occurred in the hour of darkness.

Full details of the accident data for Colindale Avenue are given in Appendix C – sheet 2 of 2.

4. Pedestrian Survey:

Both site observations and PV² surveys were undertaken at various locations to determine the practicality and popularity of the various pedestrian routes. Pedestrian counts at the Colindale Avenue roundabout indicate that approximately 2000 pedestrians cross at or near this junction during weekdays from 8am to 10am and 3.00pm to 5.00pm. It is expected that this value will increase significantly as a result of the new Beaufort Park development.

Information gained from site observations helped to determine that the majority of pedestrian movements are located between Colindale Station and Beaufort Park. A steady flow of pedestrians were also observed throughout the day turning left out of Heritage Avenue into Aerodrome Road then walking east towards Greyhound Hill using the pedestrian subway at the Watford Way junction.

The results of the survey, pedestrian desired lines and PV² results are given in Appendix D.

5. Future Bus Stop Provision:

Aerodrome Road currently has two permanent and one temporary bus stop serving bus route number 186. The Council highways strategy unit stated that three additional stops may be provided in the future as indicated in Appendix D. The proposals of this report have been checked and found not to conflict with these three bus stops.

Colindale Avenue currently has one bus stop serving bus route numbers 204, 303, 632 and 642. The proposed changes as mentioned in this report will not affect this bus stop.

6. Traffic survey:

Aerodrome Road carries approximately 9000 vehicles per week day. The 85th percentile speed (speed at which 85% of drivers travel at or below) is 37mph which is above the 30mph limit of this road. The geometrical alignment and width of the carriageway is believed to encourage high traffic speeds.

Colindale Avenue carries approximately 12000 vehicle movements per week day. Site observations established that traffic speeds are generally low and that the existing road layout was not conducive to speed.

7. Proposals:

Having investigated various options to increase the safety and amenity of the site for pedestrians, the following improvements are being proposed:

7.1 Aerodrome Road – (Refer to Appendix E)

- Improve tactile arrangements to comply with current guidelines on the mobility requirements for the visually impaired. Improved tactile layouts will effectively increase pedestrian safety and accessibility.
- Provide dropped crossing points or remove redundant accesses enabling better use of the footway.
- Provide pedestrian islands evenly spaced along the length of Aerodrome Road. This will aid in reducing traffic speeds and provide pedestrians with safer crossing points thereby improving safety for pedestrians.
- Increase the width of the existing pedestrian island on Aerodrome Road at its junction with Watford Way to a minimum of 2.0m and move back the existing south west kerb line on the southwest corner of the junction. The proposal will increase the pedestrian island to an acceptable width whilst allowing large vehicles to turn left into Aerodrome Road from Watford Way without overrunning the footway. Note that this last proposal would be funded via a separate contribution made for improvement to the Aerodrome Road / A41 junction.

7.2 Colindale Avenue (including the roundabout) – (Refer to Appendix F)

- Improve tactile arrangements to comply with current guidelines on the mobility requirements for the visually impaired. Improved tactile layouts will effectively increase pedestrian safety and accessibility.
- Provide dropped kerbs at crossing points to improve accessibility for all pedestrians.
- Review the requirement for all or some of the existing sections of guard rail along the crossing points on the Colindale Avenue/Aerodrome Road roundabout. Excessive pedestrian guard rails reduce footway width and pedestrian/vehicle inter-visibility.
- Relay sections of the footway and raise kerb height to a minimum of 125mm. Improved footway surface and effective kerb height will improve pedestrian safety.

8. Finance:

Three funding stages were laid out in the initial planning obligation:

- Agreement reference 271c (i) identifies a budget of £25,000 to carry out an initial scoping study.
- Agreement reference 271c (ii), identifies a budget of £25,000 to carry out the detail design and consultation required prior to the implementation of the proposals.
- Agreement reference 271c (iii), identifies a budget of up to £200,000 to cover the construction costs of the pedestrian and urban realm improvements as identified.
- As stated in the background section of this report, safety improvements were carried out in 2009 at a cost of £10,000. The total cost of these safety improvements together with this scoping report is £35,000. To date £25,000 from agreement reference 271c (i) has been fully spent together with a further £10,000 from agreement 271c (ii). A total of £15,000 remains to be spent under agreement reference 271c (ii), to carry out the detailed design and consultation required for the proposals.

A breakdown of the cost relating to the detail design, consultation, and implementation of measures identified in this report for both Aerodrome Road and Colindale Avenue is given below:

Table 1 – Aerodrome Road Improvements (Refer to Appendix B)

| Item | Description | Estimated Cost |
|------|--|-----------------|
| 1. | • Pedestrian accessibility improvements along Aerodrome Road. | £ 30,000 |
| 2. | • Three new Pedestrian islands on Aerodrome Road, including associated road layout amendments. | £ 45,000 |
| | Total | £ 70,000 |

Table 2 – Colindale Avenue Improvements (Refer to Appendix C)

| Item | Description | Estimated Cost |
|------|--|-----------------|
| 1. | • Pedestrian accessibility improvements along Colindale Avenue. | £ 15,000 |
| 2. | • General improvements to existing footway surface and increasing kerb height. | £ 30,000 |
| 3. | • Removal pedestrian guard rail | £ 5,000 |
| | Total | £ 50,000 |

The total funding need for the implementation of the medium terms measures will therefore be **£120,000**. In light of the £225,000 available if combining agreements 271(ii) & (iii), £105,000 would be left as a surplus which could be used for scoping and part implementation of longer term measures aimed at promoting walking as an attractive transport option in the area.

9. Recommendations:

While there has only been one pedestrian accident at the location in the last three years the surveys have shown that there is a tangible demand for pedestrians in the area which is set to increase as a result of the development of Beaufort Park and the overall regeneration of Colindale area. Given the current pedestrian provision and the excessive vehicle speeds observed, the area would benefit from the implementation of the medium term measures detailed in this report.

It is also recommended that the remainder of the allocation be spent on reviewing long term options for the area taking into consideration the removal of the roundabout and the realignment of Aerodrome Road to face Lanacre Avenue. The development of a pedestrian strategy and proposals including the elimination of walking barriers on routes to and from various points of interest such as Mill Hill Broadway, Middlesex University, and the Town Hall would further Colindale's appeal to prospective residents and enhance the area as a whole. While not sufficient in isolation the £105,000 would represent a sizeable contribution toward achieving this goal.

10. Appendices:

Appendix A – Essential Safety Improvements

Appendix B – Existing Layout

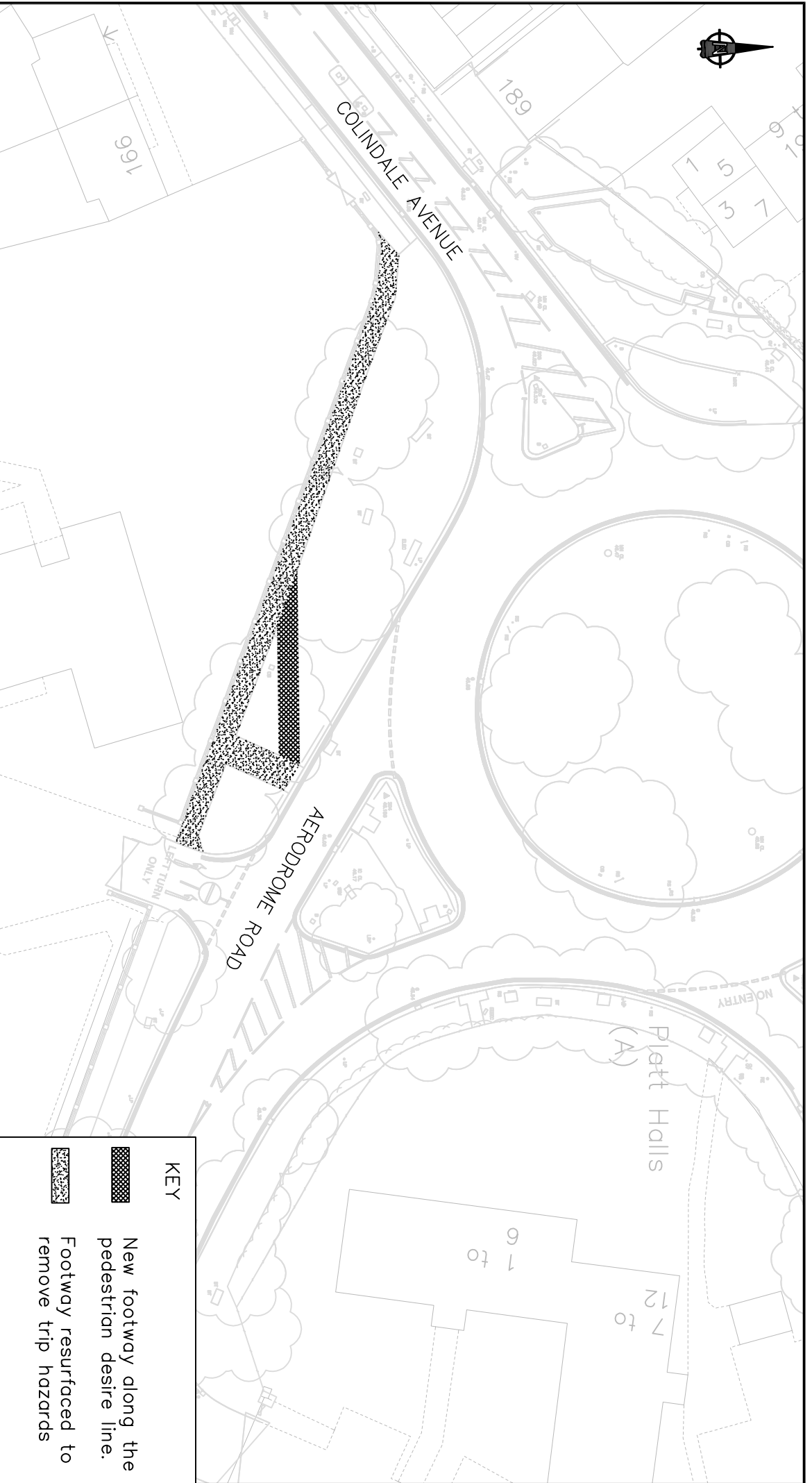
Appendix C – Accident Data – Aerodrome Road and Colindale Avenue



Appendix D – Pedestrian Desired Line and PV² Results

Appendix E – Proposed Pedestrian Improvements – Aerodrome Road

Appendix F – Proposed Pedestrian Improvements – Colindale Avenue

Appendix A – Essential Safety Improvements



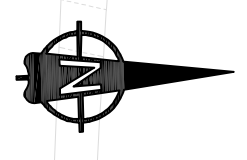
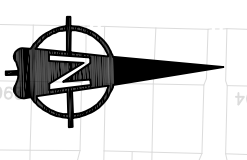
| | | | | |
|--------------|--|--|--|---|
| Initiated by | SCHEME: Beaufort Park - RAF Hendon S106 Scheme | | Director of Environment and Operations | <p>KEY</p> <p> New footway along the pedestrian desire line.</p> <p> Footway resurfaced to remove trip hazards</p> |
| Drawn by | TITLE: Appendix A Essential Safety Improvements | | <p>Dorne Kanareck</p> <p>North London Business Park Oakleigh Road South New Southgate N11 1NP Tel. 020 8359 2000</p> | |
| Checked by | Scales | | DRAWING No. | <p>BARNET LONDON BOROUGH DESIGN TEAM</p> <p>60619_P_015</p> |
| Date | 1:200@A4 | | Acad Ref: | |

Appendix B – Existing Layout



NOTES:

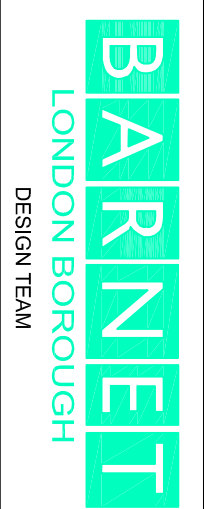
1. Do not scale. This drawing should be read with only written dimensions to be used.
2. This drawing must be read in conjunction with the Aerodrome Road-Pedestrian Improvements Scheme Report, Ref No.S106/10-11/Aerodrome Rd/001.



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| Revision and Date | Description | Issued |
|-------------------|-------------|--------|
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Diana Kazianka
 Director of Environment and Operations
 North London Business Park
 Oakleigh Road South
 Barnet, London HA5 1NP
 Tel: 020 8360 2000



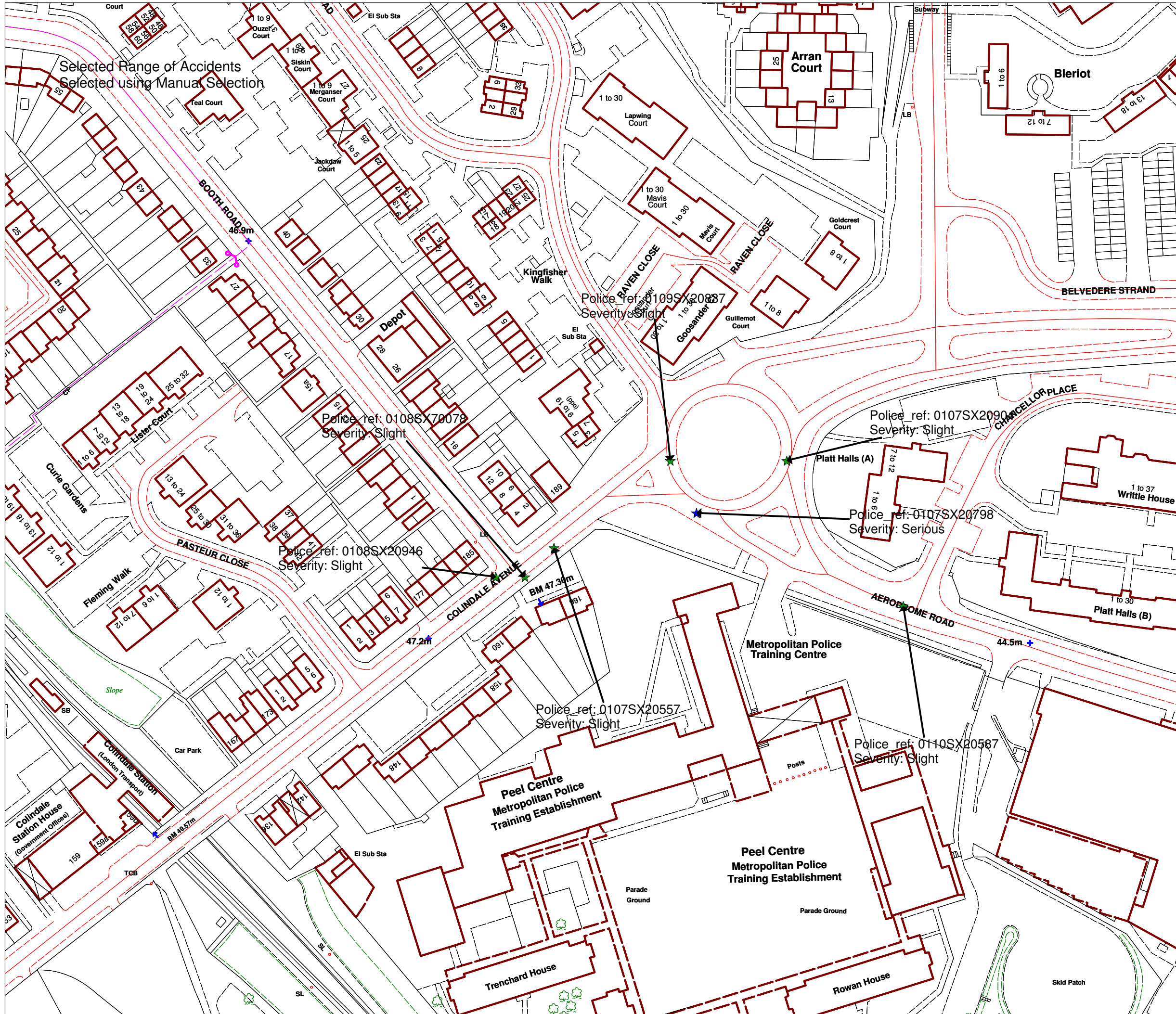
SCHEME:
 Beaufort Park - RAF Hendon
 S106 Scheme

TITLE:
 APPENDIX B
 Pedestrian Route Study - Aerodrome Road
 Existing Layout

| | | | |
|--------------|-------------|----------|--------|
| Scale: | 1:1000 | Date: | Jun 10 |
| Issued: | NR | Drawn: | MJ |
| DRAWING NO.: | 60619_P_016 | Checked: | AA |

Acad Ref:

Appendix C – Accident Data – Aerodrome Road and Colindale Avenue



Selected Range of Accidents
Selected using Manual Selection

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Colour coding by SEVERITY

- ★ Fatal (0)
- ★ Serious (2)
- ★ Slight (12)
- ★ Other (0)



DRAWING TITLE
APPENDIX C
Sheet 2 of 2

| | |
|-------------|---------------|
| SCALE | 1 : 1250 @ A3 |
| DATE | 06/06/2010 |
| DRAWING No. | 60619_AC_001 |
| DRAWN BY | MJ |

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

0107SX20557 20/09/2007 Wednesday Time 2203 Vehicles 1 Casualties 1 Slight
 Fine with high winds Road surface Dry Darkness: street lights present and lit
 Special Conditions None Road Type Single carriageway
 PED STEPPED OUT INTO THE SIDE OF V1
 Occurred on COLINDALE AVENUE 60M SW J/W AERODROME ROAD

Vehicle Reference 1 Goods <= 3.5 tonnes mgw Going ahead
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Nearside Age of Driver 21 Breath test Negative
 Vehicle direction SW to NE Driver Postcode NW2
 FRV Not foreign registered vehicle Journey Other/Not known
 Casualty Reference: 1 Age: 44 Male Pedestrian Severity: Slight
 Pedestrian Direction: SE

0107SX20798 06/11/2007 Monday Time 0730 Vehicles 2 Casualties 1 Serious
 Fine with high winds Road surface Dry Daylight:street lights present
 Special Conditions None Road Type Roundabout
 V1 PULLED OUT INTO THE PATH OF V2
 Occurred on AERODROME ROAD J/W COLINDALE AVENUE

Vehicle Reference 1 Car Going ahead
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Offside Age of Driver 22 Breath test Driver not contacted
 Vehicle direction NW to SE Driver Postcode NW9
 FRV Not foreign registered vehicle Journey Other/Not known
 Vehicle Reference 2 Pedal cycle Going ahead
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Front Age of Driver Breath test Not applicable
 Vehicle direction SW to NE Driver Postcode HA7
 FRV Not foreign registered vehicle Journey Other/Not known
 Casualty Reference: 1 Age: Male Driver/rider Severity: Serious

0107SX20904 10/12/2007 Sunday Time 0735 Vehicles 2 Casualties 1 Slight
 Fine with high winds Road surface Wet/Damp Daylight:street lights present
 Special Conditions None Road Type Roundabout
 V1 HIT V2
 Occurred on AERODOME RD J/W GRAHAME PARK WAY

Vehicle Reference 1 Car Turning left
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Front Age of Driver 49 Breath test Negative
 Vehicle direction S to E Driver Postcode NW9
 FRV Not foreign registered vehicle Journey Other/Not known

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

| | | | | |
|------------------------|--------------------------------|-------------|-----------------|--|
| Vehicle Reference | 2 | Pedal cycle | | Turning right |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Front | | Age of Driver | 27 |
| Vehicle direction | S to W | | Breath test | Not applicable |
| FRV | Not foreign registered vehicle | | Driver Postcode | HP2 |
| | | | Journey | Other/Not known |
| Casualty Reference: | 1 | Age: 27 | Male | Driver/rider |
| | | | | Severity: Slight |

0108SX20667 02/09/2008 Monday Time 1700 Vehicles 2 Casualties 1 Slight
 Fine with high winds Road surface Dry Daylight:street lights present
 Special Conditions None Road Type Single carriageway
 V2 HIT THE REAR OF V1
 Occurred on AERODROME ROAD J/W ROWAN DRIVE

| | | | | |
|------------------------|--------------------------------|------|-----------------|--|
| Vehicle Reference | 1 | Car | | Waiting to go ahead but held up |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Back | | Age of Driver | 34 |
| Vehicle direction | W to E | | Breath test | Not requested |
| FRV | Not foreign registered vehicle | | Driver Postcode | |
| | | | Journey | Other/Not known |
| Vehicle Reference | 2 | Car | | Waiting to go ahead but held up |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Front | | Age of Driver | |
| Vehicle direction | W to E | | Breath test | Not requested |
| FRV | Not foreign registered vehicle | | Driver Postcode | |
| | | | Journey | Other/Not known |
| Casualty Reference: | 1 | Age: | Male | Passenger |
| | | | | Severity: Slight |

0108SX20911 10/11/2008 Sunday Time 2125 Vehicles 1 Casualties 1 Slight
 Fine without high winds Road surface Wet/Damp Darkness: street lights present and lit
 Special Conditions None Road Type Single carriageway
 V1 WENT THROUGH PUDDLE CAUSING THEM TO LOSE CONTROL.
 Occurred on AERODROME ROAD 30M W J/W WATFORD WAY

| | | | | |
|------------------------|--------------------------------|---------------------------------------|-----------------|--|
| Vehicle Reference | 1 | Motorcycle over 125cc and up to 500cc | | Going ahead |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Did not impact | | Age of Driver | 24 |
| Vehicle direction | W to E | | Breath test | Negative |
| FRV | Not foreign registered vehicle | | Driver Postcode | NW9 |
| | | | Journey | Journey as part of work |
| Casualty Reference: | 1 | Age: 24 | Male | Driver/rider |
| | | | | Severity: Slight |

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

0108SX20946 19/11/2008 Tuesday Time 1234 Vehicles 2 Casualties 1 Slight
 Fine with high winds Road surface Dry Daylight:street lights present
 Special Conditions None Road Type Single carriageway
 V1 TURNED RIGHT ACROSS PATH OF ONCOMING V2
 Occurred on COLINDALE AVENUE J/W BOOTH ROAD

Vehicle Reference 1 Car Turning right
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Nearside Age of Driver 45 Breath test Not requested
 Vehicle direction NW to NE Driver Postcode HA8
 FRV Not foreign registered vehicle Journey Other/Not known

Vehicle Reference 2 Motorcycle over 50cc and up to 125cc Going ahead
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Front Age of Driver 32 Breath test Not requested
 Vehicle direction NE to SW Driver Postcode CR4
 FRV Not foreign registered vehicle Journey Other/Not known

Casualty Reference: 1 Age: 32 Male Driver/rider Severity: Slight

0108SX20968 08/11/2008 Friday Time 1335 Vehicles 3 Casualties 2 Slight
 Fine with high winds Road surface Dry Daylight:street lights present
 Special Conditions None Road Type Single carriageway
 V1 WAITING TO TURN RIGHT, V2 STOPS BEHIND, V3 FAILS TO STOP AND COLLIDES WITH V2 PUSHING V2 INTO THE
 REAR OF V1.
 Occurred on AERODROME ROAD 150M NW J/W ROWAN DRIVE

Vehicle Reference 1 Car Waiting to turn right
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Back Age of Driver 23 Breath test Not requested
 Vehicle direction S to NW Driver Postcode UB9
 FRV Not foreign registered vehicle Journey Other/Not known

Casualty Reference: 1 Age: 23 Female Driver/rider Severity: Slight

Vehicle Reference 2 Car Waiting to go ahead but held up
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Back Age of Driver 46 Breath test Not requested
 Vehicle direction SE to NW Driver Postcode HA8
 FRV Not foreign registered vehicle Journey Other/Not known

Casualty Reference: 2 Age: 46 Female Driver/rider Severity: Slight

Vehicle Reference 3 Car Slowing or Stopping
 Not in restricted lane No skidding, jack-knifing or overturning
 First point of impact Front Age of Driver 39 Breath test Negative
 Vehicle direction SE to NW Driver Postcode HA7
 FRV Not foreign registered vehicle Journey Other/Not known

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection:

Notes:

0108SX21002 01/12/2008 Sunday Time 0725 Vehicles 2 Casualties 2 Slight
Fine with high winds Road surface Wet/Damp Daylight:street lights present
Special Conditions Road works present Road Type Single carriageway
THERE ARE EXTENSIVE ROAD WORKS @ LOCATION - V1 & V2 HAVE COLLIDED FOR REASONS UNKNOWN
Occurred on AERODROME ROAD J/W ROWAN DRIVE

Vehicle Reference 1 Goods <= 3.5 tonnes mgw Going ahead
Not in restricted lane No skidding, jack-knifing or overturning
First point of impact Nearside Age of Driver 25 Breath test Not requested
Vehicle direction W to E Driver Postcode HA8
FRV Not foreign registered vehicle Journey Other/Not known
Casualty Reference: 1 Age: 25 Male Driver/rider Severity: Slight

Vehicle Reference 2 Car Going ahead
Not in restricted lane No skidding, jack-knifing or overturning
First point of impact Offside Age of Driver 39 Breath test Not requested
Vehicle direction E to W Driver Postcode HA8
FRV Not foreign registered vehicle Journey Other/Not known
Casualty Reference: 2 Age: 39 Male Driver/rider Severity: Slight

0108SX70078 12/03/2008 Tuesday Time 1530 Vehicles 2 Casualties 1 Slight
Fine with high winds Road surface Dry Daylight:street lights present
Special Conditions None Road Type Dual carriageway
CAR EMERGING FROM JUNCTION COLLIDES WITH POLICE MOTORCYCLIST TRAVELLING SOUTHBOUND ALONG ROAD,
FILTERING BETWEEN THE STATIONARY TRAFFIC.
Occurred on COLINDALE AVENUE J/W BOOTH ROAD

Vehicle Reference 1 Motorcycle over 500cc Going ahead
Not in restricted lane Skidded and overturned
First point of impact Nearside Age of Driver 48 Breath test Not requested
Vehicle direction S to N Driver Postcode NW95
FRV Not foreign registered vehicle Journey Journey as part of work
Casualty Reference: 1 Age: 48 Male Driver/rider Severity: Slight

Vehicle Reference 2 Car Turning right
Not in restricted lane No skidding, jack-knifing or overturning
First point of impact Front Age of Driver Breath test Not requested
Vehicle direction W to E Driver Postcode UB10
FRV Not foreign registered vehicle Journey Commuting to/from work

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

0108SX72738 12/05/2008 Sunday Time 2038 Vehicles 2 Casualties 1 Serious
 Fine with high winds Road surface Dry Daylight:street lights present
 Special Conditions None Road Type Dual carriageway
 POLICE SOLO BEING RIDDEN COLLIDES WITH A VEHICLE, CAUSING POLICE OFFICER SERIOUS INJURIES.
 Occurred on AERODROME ROAD J/W WATFORD WAY

| | | | | | | |
|------------------------|--------------------------------|-----------------------|--|-------------------------|-------------|---------------|
| Vehicle Reference | 1 | Car | Turning right | | | |
| | | | No skidding, jack-knifing or overturning | | | |
| Not in restricted lane | | | Age of Driver | 70 | Breath test | Negative |
| First point of impact | Nearside | | Driver Postcode | HA88 | | |
| Vehicle direction | N to E | | Journey | Other/Not known | | |
| FRV | Not foreign registered vehicle | | | | | |
| Vehicle Reference | 2 | Motorcycle over 500cc | Going ahead | | | |
| | | | No skidding, jack-knifing or overturning | | | |
| Not in restricted lane | | | Age of Driver | 45 | Breath test | Not requested |
| First point of impact | Front | | Driver Postcode | GU16 | | |
| Vehicle direction | E to W | | Journey | Journey as part of work | | |
| FRV | Not foreign registered vehicle | | | | | |
| Casualty Reference: | 1 | Age: 45 | Male | Driver/rider | Severity: | Serious |

0109SX20057 29/01/2009 Wednesday Time 1837 Vehicles 4 Casualties 2 Slight
 Fine with high winds Road surface Dry Darkness: street lights present and lit
 Special Conditions None Road Type Single carriageway
 PASSENGER OF V1 PANICED WHEN A POLICE CAR DROVE PAST. DRIVER OF V1 LOST CONTROL AND HIT PARKED V2,
 WHO HIT 3 THEN 4
 Occurred on AERODROME RD 82M W OF ROWAN DRIVE

| | | | | | | |
|------------------------|--------------------------------|---------|--|-----------------|-------------|----------|
| Vehicle Reference | 1 | Car | Going ahead | | | |
| | | | No skidding, jack-knifing or overturning | | | |
| Not in restricted lane | | | Age of Driver | 39 | Breath test | Positive |
| First point of impact | Front | | Driver Postcode | Unknown | | |
| Vehicle direction | E to W | | Journey | Other/Not known | | |
| FRV | Not foreign registered vehicle | | | | | |
| Casualty Reference: | 1 | Age: 39 | Female | Driver/rider | Severity: | Slight |
| Casualty Reference: | 2 | Age: 78 | Female | Passenger | Severity: | Slight |

| | | | | | | |
|------------------------|--------------------------------|-----|--|----------------------------------|--|--|
| Vehicle Reference | 2 | Car | Parked | | | |
| | | | No skidding, jack-knifing or overturning | | | |
| Not in restricted lane | | | Age of Driver | Breath test Driver not contacted | | |
| First point of impact | Back | | Driver Postcode | Parked an | | |
| Vehicle direction | Par to Parked | | Journey | Other/Not known | | |
| FRV | Not foreign registered vehicle | | | | | |
| Vehicle Reference | 3 | Car | Parked | | | |
| | | | No skidding, jack-knifing or overturning | | | |
| Not in restricted lane | | | Age of Driver | Breath test Driver not contacted | | |
| First point of impact | Back | | Driver Postcode | Parked an | | |
| Vehicle direction | Par to Parked | | Journey | Other/Not known | | |
| FRV | Not foreign registered vehicle | | | | | |

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

| | | | | |
|------------------------|--------------------------------|--------|---------------|--|
| Vehicle Reference | 4 | Car | | Parked |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Back | | Age of Driver | Breath test Driver not contacted |
| Vehicle direction | Par to | Parked | | Driver Postcode Parked an |
| FRV | Not foreign registered vehicle | | | Journey Other/Not known |

0109SX20837 30/08/2009 Saturday Time 1724 Vehicles 1 Casualties 1 Slight
 Fine with high winds Road surface Dry Daylight: no street lighting
 Special Conditions None Road Type Roundabout
 V1 TURNED WRONG DIRECTION,CORRECTED,MOUNTED ROUNDABOUT AND HIT STEEL POST, OVERTURNED INTO CARRIAGEWAY
 Occurred on EAGLE DRIVE J/W GRAHAM PARK DRIVE ROUNDABOUT

| | | | | |
|------------------------|--------------------------------|------|---------------|--|
| Vehicle Reference | 1 | Car | | Going ahead |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Front | | Age of Driver | 31 Breath test Negative |
| Vehicle direction | NE to | SW | | Driver Postcode NW9 |
| FRV | Not foreign registered vehicle | | | Journey Other/Not known |
| Casualty Reference: | 1 | Age: | 31 | Female Driver/rider Severity: Slight |

0110SX20328 30/03/2010 Monday Time 1615 Vehicles 2 Casualties 1 Slight
 Fine without high winds Road surface Wet/Damp Daylight: street lighting unknown
 Special Conditions None Road Type Single carriageway
 DRIVER OF VEH.1 ACCIDENTLY PUSHED THE ACCELERATOR INSTEAD OF BREAK AND HIT REAR OF VEH.2.
 Occurred on AERODROME ROAD J/W CANBERRA CLOSE.

| | | | | |
|------------------------|--------------------------------|------|---------------|--|
| Vehicle Reference | 1 | Car | | Going ahead |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Front | | Age of Driver | 29 Breath test Negative |
| Vehicle direction | SE to | NW | | Driver Postcode SW9 |
| FRV | Not foreign registered vehicle | | | Journey Commuting to/from work |
| Vehicle Reference | 2 | Car | | Slowing or Stopping |
| Not in restricted lane | | | | No skidding, jack-knifing or overturning |
| First point of impact | Back | | Age of Driver | 42 Breath test Driver not contacted |
| Vehicle direction | SE to | NW | | Driver Postcode LU02 |
| FRV | Not foreign registered vehicle | | | Journey Journey as part of work |
| Casualty Reference: | 1 | Age: | 42 | Male Driver/rider Severity: Slight |

0110SX20587 01/06/2010 Monday Time 1515 Vehicles 3 Casualties 2 Slight
 Fine without high winds Road surface Wet/Damp Daylight:street lights present
 Special Conditions None Road Type Dual carriageway
 V1 [L-DVR UNDER INSTR] TURNING RIGHT; V2 BEHIND HIT BY V3, V2 HITS V1

Accidents between dates 01/06/2007 and 01/06/2010 (36) months

Selection: Notes:

Occurred on NFL: AERODROME ROAD 70M SE J/W GRAHAME PARK WAY

Vehicle Reference 1 Car
Not in restricted lane
First point of impact Back
Vehicle direction NE to SE
FRV Not foreign registered vehicle

Waiting to turn right
No skidding, jack-knifing or overturning
Age of Driver 27 Breath test Negative
Driver Postcode NW2
Journey Journey as part of work

Vehicle Reference 2 Car
Not in restricted lane
First point of impact Back
Vehicle direction NW to SE
FRV Not foreign registered vehicle

Moving off
No skidding, jack-knifing or overturning
Age of Driver 79 Breath test Negative
Driver Postcode HA8
Journey Other/Not known

Casualty Reference: 2 Age: 79 Female Driver/rider Severity: Slight

Vehicle Reference 3 Car
Not in restricted lane
First point of impact Did not impact
Vehicle direction NW to SE
FRV Not foreign registered vehicle

Going ahead
No skidding, jack-knifing or overturning
Age of Driver 28 Breath test Negative
Driver Postcode NW4
Journey Other/Not known

Casualty Reference: 1 Age: 28 Male Driver/rider Severity: Slight

Accidents involving:

| | Fatal | Serious | Slight | Total |
|--------------------------|-------|---------|--------|-------|
| Motor vehicles | 0 | 0 | 8 | 8 |
| 2-wheeled motor vehicles | 0 | 1 | 3 | 4 |
| Pedal cycles | 0 | 1 | 1 | 2 |
| Horses & other | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 12 | 14 |

Casualties:

| | Fatal | Serious | Slight | Total |
|------------------|-------|---------|--------|-------|
| Vehicle driver | 0 | 0 | 9 | 9 |
| Passenger | 0 | 0 | 2 | 2 |
| Motorcycle rider | 0 | 1 | 3 | 4 |
| Cyclist | 0 | 1 | 1 | 2 |
| Pedestrian | 0 | 0 | 1 | 1 |
| Other | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 16 | 18 |

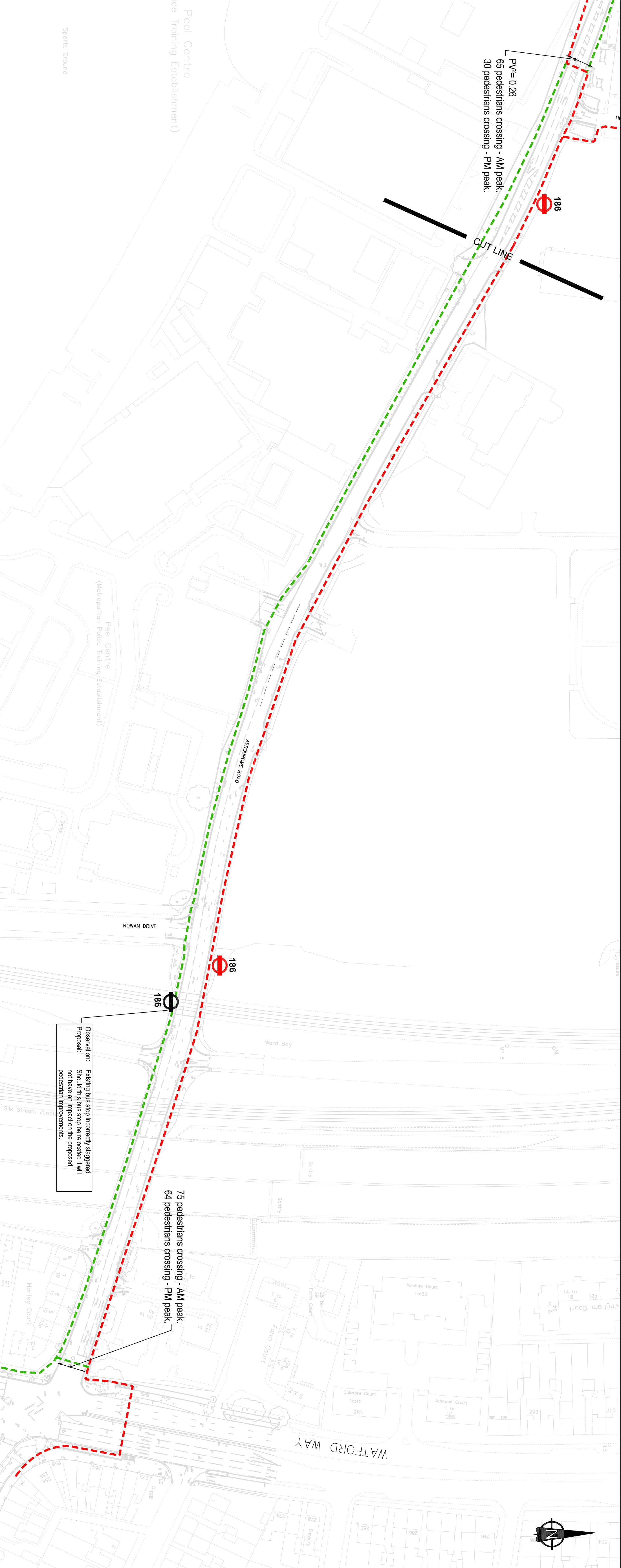
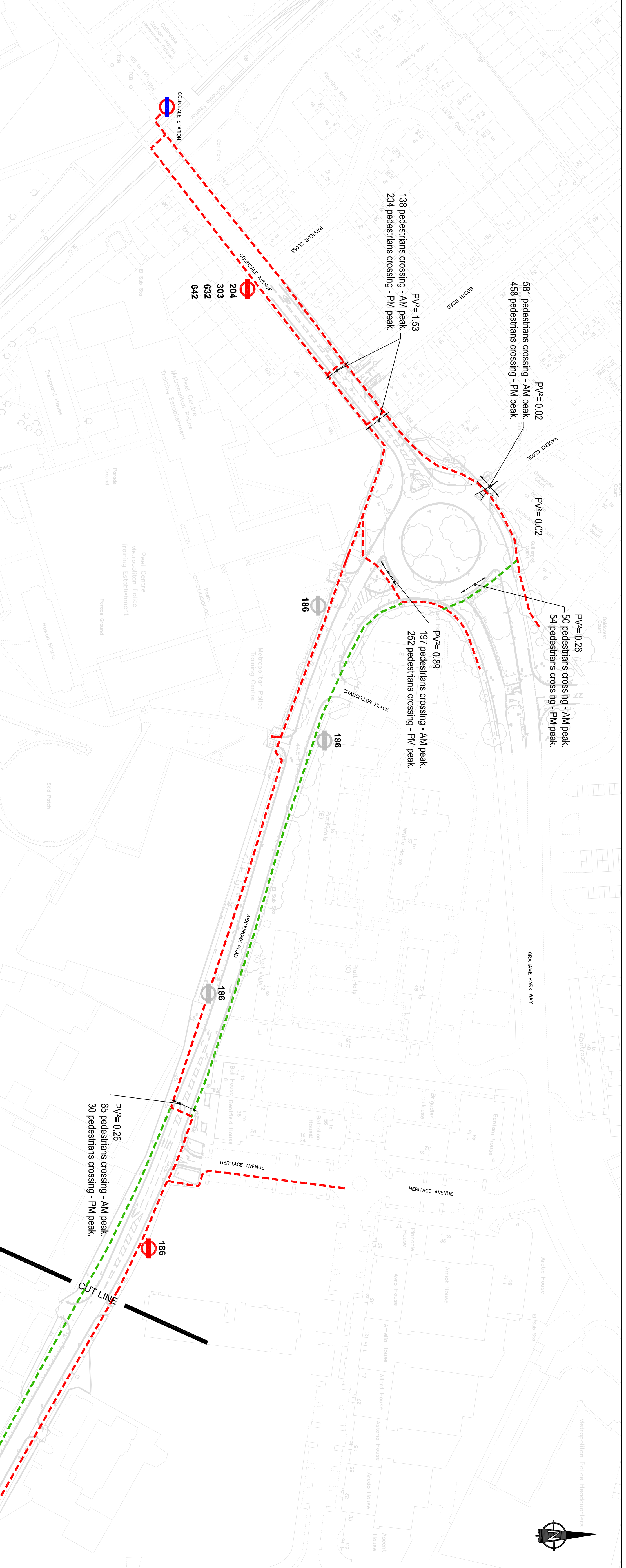
Appendix D – Pedestrian Desired Line and PV2 Results

NOTES:

1. Do not scale. This drawing should be used for reference only with dimensions to be used.
2. This drawing must be read in conjunction with the Aerodrome Road-Pedestrian Improvements Scheme Report, Ref No:SI/06/10-11/Aerodrome Rd/001.
3. All proposed measures are subject to successful consultation and all relevant approvals being obtained.

KEY

- - - Primary pedestrian desire line.
- - - Secondary pedestrian desire line.
- ⊕ Location of existing bus stops.
- ⊖ Location of existing temporary bus stop.
- ⊖ Location of possible future bus stops.



Observation: Existing bus stop incorrectly sited and should not have an impact on the proposed pedestrian improvements.

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| Revision and Date | Description | Issued |
|-------------------|-------------|--------|
| | | |

Diana Karpavick
Director of Environment and Operations

North London Business Park
Osakeign Road South
London N11 1NP
Tel: 020 5350 2000

BARNET
LONDON BOROUGH
DESIGN TEAM

SCHEME:
Beaufort Park - RAF Hendon
S106 Scheme

TITLE:
APPENDIX D
Pedestrian Route Study
Aerodrome Road/Colindale Avenue

| | | | |
|----------|--------|--------|--------|
| Scale: | 1:1000 | Date: | Jun 10 |
| Issued: | NR | Drawn: | MJ |
| Checked: | AA | | |

DRAWING NO.: 60619_P_024

Acad Ref:

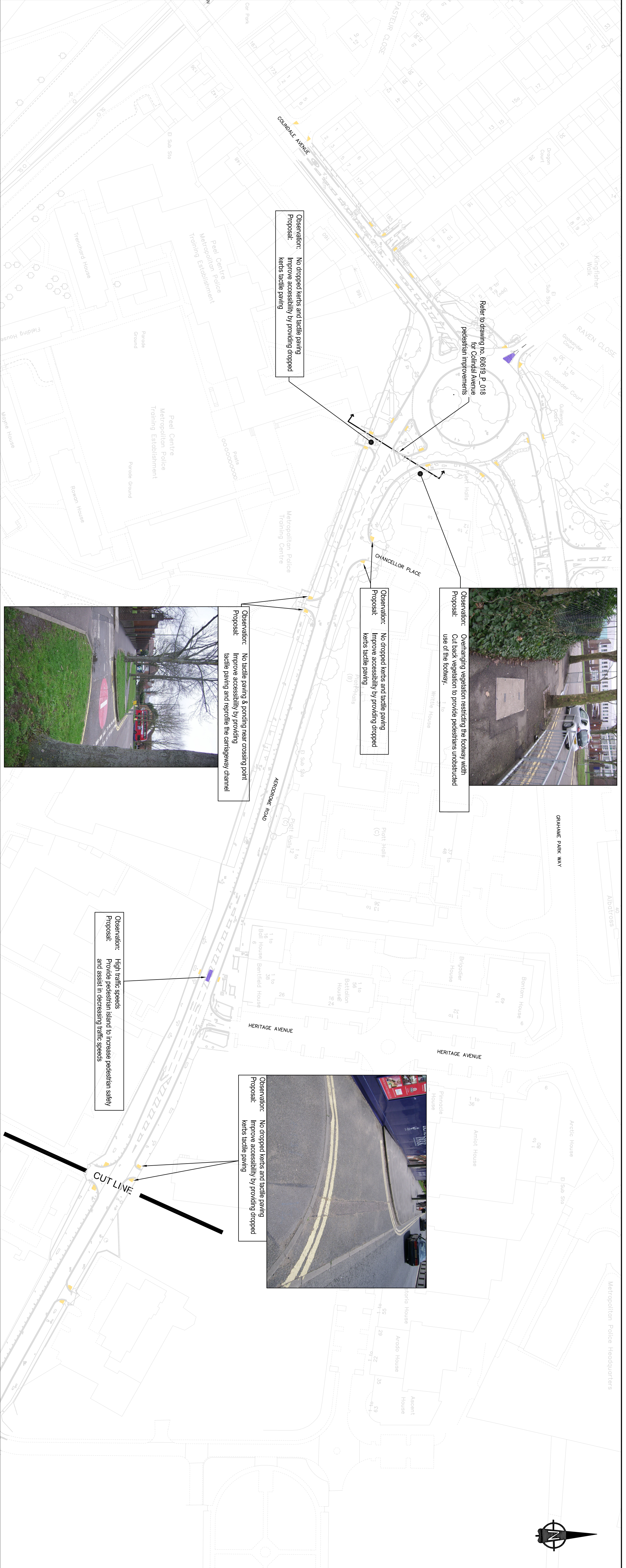
Appendix E – Proposed Improvements – Aerodrome Road

NOTES:

1. Do not scale. This drawing should be read with only written dimensions to be used.
2. This drawing must be read in conjunction with the Aerodrome Road-Pedestrian Improvements Scheme Report, Ref No.S106/10-11/Aerodrome Rd/001.
3. All proposed measures are subject to successful consultation and all relevant approvals being obtained.

KEY

| | |
|--|-----------------------------------|
| | Proposed new carriageway |
| | Proposed new buff tactile paving. |
| | Proposed new red tactile paving. |
| | Proposed new pedestrian island. |
| | Proposed new footway |



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| | | |
|----------|-------------|----------|
| Revision | Description | Included |
| | | |

Diana Krasavick
Director of Environment and Operations

North London Business Park
Osakegati Road South
London N11 1NP
Tel: 020 8360 2000

BARNET
LONDON BOROUGH
DESIGN TEAM

SCHEME:
Beaufort Park - RAF Hendon
S106 Scheme

TITLE:
APPENDIX E
Proposed Improvements
Pedestrian Route Study - Aerodrome Road

| | | | |
|------------|--------|--------|--------|
| Scale: | 1:1000 | Date: | Jun 10 |
| Initiated: | NR | Drawn: | MJ |
| Checked: | AA | | |

DRAWING NO.: 60619_P_017




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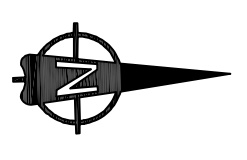
Appendix F – Proposed Improvements – Colindale Avenue

NOTES:

1. Do not scale. This drawing should not be scaled and only written dimensions to be used.
2. This drawing must be read in conjunction with the Aerodrome Road - Pedestrian Improvements Scheme Report, Ref No. S106/10-11/Aerodrome Rd/001.
3. All proposed measures are subject to successful consultation and all relevant approvals being obtained.

KEY

-  Proposed new buff tactile paving.
-  Proposed new pedestrian island.
-  Proposed footway relay.



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| Revision | Date | Description | Issued |
|----------|------|-------------|--------|
| | | | |
| | | | |

Diana Kazianka
Director of Environment and Operations

North London Business Park
Osakegati Road South
London N4 3LW
Tel: 020 5395 2000

BARNET
LONDON BOROUGH
DESIGN TEAM

SCHEME:
Beaufort Park - RAF Hendon
S106 Scheme

TITLE:
APPENDIX F
Pedestrian Route Study - Colindale Avenue
Proposed Improvements

| | | | |
|------------|-------|----------|--------|
| Scale: | 1:500 | Date: | Jun 10 |
| Initiated: | | Drawn: | MJ |
| Checked: | | Checked: | AA |

DRAWING NO.: 60619_P_018

Acad Ref: