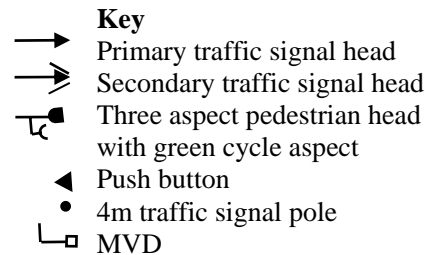
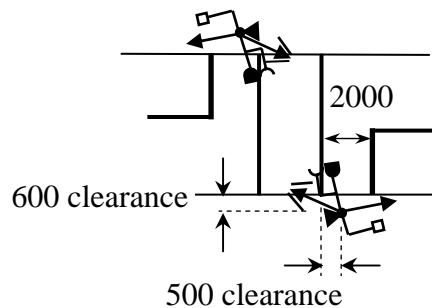


LAYOUT AND DESIGN REQUIREMENTS

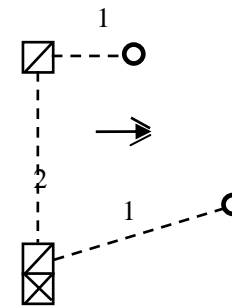
Not to scale (all dimensions in mm)



1. Tactile paving and dropped kerbs required as per SD003 Pelican_Detail_02;
2. Pedestrian barrier may be required;
3. Minimum width of crossing 3.0m;
4. Road crossing width generally not to exceed 10m;
5. Push buttons shall be PRISMA TF with tactile and audible units mounted as shown. Underside of push button shall be between 1.0 and 1.1m above footway level;
6. Push buttons shall be ELV;
7. All signal heads shall have 2.1m clearance above footway;
8. Traffic signal poles shall be 4m, predrilled, galvanised and plastic coated;
9. Poles shall be installed as shown in SD008 Pole_Setting_Out_01;
10. All equipment to be approved to UK Highways Agency standards and/or BS505;
11. Solar cell shall be installed to dim traffic displays to 160v;
12. Toucan generally to operate in VA mode using MVD's. In some circumstances loops may be required;
13. OMCU shall be supplied and installed in the controller by SDCC;
14. OMCU shall utilise PSTN or GSM communications;
15. Controller shall be in accordance with the *Requirements for the Design and Installation of Traffic Control Equipment for South Dublin County Council*;
16. Controller shall be carefully sited to minimise obstruction to pedestrians/ cyclists and in particular shall not obstruct visibility of pedestrians and cyclists for approaching vehicles;
17. Power supply shall be 20 amps;
18. Road markings shall be in accordance with the Traffic Signs Manual, Figure 7.31 and Pages 7.51 & 7.52;

DUCTING REQUIREMENTS

Key



Traffic signal duct
Controller
450mm chamber
Pole housing



1. Ducting, chambers and pole housing to be Cooper Clarke or agreed equivalent;
2. Number of ducts required shown;
3. Chambers shall not be located in tactile paving

TIMINGS

| Pedestrian Display | Traffic Display | Timings(seconds) |
|----------------------|-----------------|------------------------|
| Red standing figure | Green | 20 |
| Red standing figure | Amber | 3 |
| Red standing figure | Red | 1 gap/2 forced |
| Green walking figure | Red | 6 to 7 ^(a) |
| Amber figure | Red | 6 to 10 ^(b) |
| Red standing figure | Red | 1 |

- (a) 6 seconds up to 7.5m, 7 seconds 7.5m to 10.0m crossing width;
(b) road width in metres divided by 1.2, minimum 6 seconds;

NOTES

1. This drawing summarises key requirements. All installations shall be in accordance with the current version of *Requirements for the Design and Installation of Traffic Control Equipment for South Dublin County Council*;
2. Any variations from this document must be agreed in advance in writing with the Project Engineer, Traffic Section;



South Dublin County Council
Roads (Traffic & Transportation)
Department

SD002, Standard Layout and Design Requirements For a
typical Toucan Crossing (Version 2.1)

Drawing Number:
Toucan_Detail_01

Date: May 2006