At Original Drawing Size This Line Measures 100mm

Original Drawing Size A2

NOTES

1. All works to be carried out to the relevant HCC specification
2. All new ducting shall have cover of 450mm in verge/footway and 750mm in carriageway.
3. All pits shall be of brick construction or NAL STAKKA boxes (to be agreed with Signal Engineer)
4. All equipment shall have a minimum clearance to the carriageway of 450mm
5. Signal poles to be positioned 500mm from carriageway and 500mm from tactile paving
6. Signal poles to be rotated 45° to the kerbline
7. A minimum clearance of 2.3m is required to bottom of all signal heads
8. The PUFFIN crossings shall be 2.8m between the studs
9. The dropped kerb for the crossing shall be flush with the carriageway
10. Duct Layout is indicative only and are subject to conditions at time of installation
11. On completion of installation drawcords to be left within all ducts
12. A rotary or similar isolator shall be installed within the feeder pillar
13. Nearside units on poles 1,5 & 6 are to be demand and display units
14. Nearside units on poles 3 & 4 are to be push button units only
15. Nearside unit on pole 2 is to be a narrow field of view demand and display unit
16. Nearside pushbuttons to be mounted at 25–30° on all poles except pole 2
17. Pushbutton on pole 2 shall be orientated by the engineer
18. Pushbutton units on all poles to be fitted with tactile rotating cones
19. MVD to be installed on poles 1 & 5
20. ONC to be installed on poles 1,3,4 & 6
21. All poles are standard poles
22. Street furniture is black in colour
23. Controller shall be ELV
24. Signal Heads shall be ELV CLS LED
25. NAL retention sockets (RS115x600DF) to be used on all poles.
26. All road markings and civils are designed by a third party
27. A GSM OMU compatible with the HCC Dynniq RMS instation shall be provided
28. A 5port 4G router shall be provided within the controller
29. This drawing is to be read in conjunction with other contract documents

CABLE SCHEDULE

Feeder Pillar — 16mm²(min) — Earth Mat

6mm² SWA 3core

CONTROLLER

- 16 Core → 1
- 16 Core → 1
- 16 Core → 2
- 20 Core → 3
- 20 Core → 4
- 20 Core → 5
- 20 Core → 6

DUCT AND PIT SCHEDULE

NP4 600x600 — 1x100 New — RS P6
2x100 New
NP3 600x600 — 1x100 New — RS P4; 1x100 New — RS P5
2x100 New
NP2 600x600 — 1x100 New — RS P2; 1x100 New — RS P3
2x100 New
NP1 600x600 — 1x100 New — RS P1
3x100 New
Earth Mat — 1x50 New — Feeder Pillar — 1x50 New — Controller

Key

NP — Proposed Chamber
RS — Retention Socket

STREAM 1 PUFFIN CROSSING OPERATIONAL CYCLE and TIMINGS

Period	SIGNALS SHOWN		Timings (seconds)
	To Pedestrians	To Vehicles	
1	Red	Green	PTM 20 FT 7 – 20 VA 7 – 20
2	Red	Amber	3
3	Red	Red	1 Gap 3 Force
4	Green	Red	5
5	Red	Red	3
6	Red	Red	5
7	Red	Red	0
8	Red	Red	0
9	Red	Red / Amber	2
Call Forward Timing – 18 Seconds		Pedestrian Comfort Factor – 3s	
MVD Ext. 0.5s		ONC Ext. 1.5s	

STREAM 2 PUFFIN CROSSING OPERATIONAL CYCLE and TIMINGS

Period	SIGNALS SHOWN		Timings (seconds)
	To Pedestrians	To Vehicles	
1	Red	Green	PTM 20 FT 7 – 20 VA 7 – 20
2	Red	Amber	3
3	Red	Red	1 Gap 3 Force
4	Green	Red	5
5	Red	Red	3
6	Red	Red	5
7	Red	Red	0
8	Red	Red	0
9	Red	Red / Amber	2
Call Forward Timing – 18 Seconds		Pedestrian Comfort Factor – 3s	
MVD Ext. 0.5s		ONC Ext. 1.5s	

Key

- Proposed drawpit 600x600
- Proposed 50mm ø ducts marked "Traffic Signals"
- Proposed 100mm ø ducts marked "Traffic Signals"
- NAL RS115x600DF Retention Socket
- Standard pole
- 3 Aspect LED primary head
- Traffic signal controller
- PUFFIN demand and display unit
- NFOV PUFFIN demand and display unit
- Single LED pedestrian push button
- Microwave Vehicle Detector
- Pedestrian On–Crossing Detector
- Photo Electric Cell
- Feeder pillar
- Pedestrian crossing studs
- Proposed Pedestrian tactile paving
- Earth mat

Notes

Rev.	Detail	Date	D'rn	C'hd	App.
A	CLIENT AMENDED TACTILE PAVING AREA AS PER ENGINEERS NOTES	22/6/22	TB	HFK	CJG

	CAD	Drawn
Initials	TB	TB
Date	18/05/22	18/05/22
	Checked	Approved
Initials	HK	CJG
Date	10/06/22	10/06/22
Scales	1:200	
Sheet No	1 OF 1	

Drg. No. 352/003/1250/001

Rev A

Project Title

THE CAMPUS, WELWYN GARDEN CITY

Drawing Title

TRAFFIC SIGNAL DETAILED DESIGN
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