



Ground Floor - Langton House
Lindum Business Park
North Hykeham
Lincoln
LN6 3FE. UK

AT18043-02-01-A

Bill of Quantities

Proposed Dual Toucan Crossing Design

A539 Llangollen Road, Ruabon

North Wales

First issue for comment	RRD	AVG	03/04/18	A
Description	Author	Approved	Date	Rev.

DRAWING REFERENCE - AT18043-01-01-A				
SIGNALS ITEMS				
Item No.	Description	Unit	Quantity	Rev.
1	Supply & install new ELV pedestrian controller complete with VA operation.	1	1	A
2	Supply & install GSM OMCU compatible with the instation.	1	1	A
3	Supply & install 4 channel detector card and associated wiring/backplane	1	3	A
4	Supply and deliver new grey 4m SAPA (or equivalent) aluminium traffic signal pole to fit standard RS115DF pole retention socket.	1	8	A
5	Supply and install three aspect primary signal head to pole top using appropriate brackets and fixings; as shown on the drawing.	1	8	A
6	Supply and install near-side Toucan indicator with separate dual language (Welsh above English) push button unit to pole using appropriate brackets and fixings; as shown on the drawing.	1	4	A
7	Supply and install dual language (Welsh above English) push button unit to pole using appropriate brackets and fixings; as shown on the drawing.	1	4	A
8	Supply and install rotating tactile cone to push button unit as shown on the drawing.	1	8	A
9	Supply and install kerb-side detection to pole top using appropriate brackets and fixings; as shown on the drawing.	1	4	A
10	Supply and install on-crossing detection to pole top using appropriate brackets and fixings; as shown on the drawing.	1	4	A
11	Supply and install photo electric cell to the top of the traffic signal aspect housing using appropriate brackets and fixings; as shown on the drawing.	1	1	A

NOTE: Actual core quantities to be calculated by signal installation company based upon their own wiring philosophy.				
12	Supply and install multi core (1.5mm ²) traffic signal cable to pole 1 with a minimum of 4 or 25% spare cores per cable.	m	10	A
13	Supply and install multi core (1.5mm ²) traffic signal cable to pole 2 with a minimum of 4 or 25% spare cores per cable.	m	29	A
14	Supply and install multi core (1.5mm ²) traffic signal cable to pole 3 with a minimum of 4 or 25% spare cores per cable.	m	24	A
15	Supply and install multi core (1.5mm ²) traffic signal cable to pole 4 with a minimum of 4 or 25% spare cores per cable.	m	14	A
17	Supply and install multi core (1.5mm ²) traffic signal cable to pole 5 with a minimum of 4 or 25% spare cores per cable.	m	14	A
18	Supply and install multi core (1.5mm ²) traffic signal cable to pole 6 with a minimum of 4 or 25% spare cores per cable.	m	19	A
19	Supply and install multi core (1.5mm ²) traffic signal cable to pole 7 with a minimum of 4 or 25% spare cores per cable.	m	29	A
20	Supply and install multi core (1.5mm ²) traffic signal cable to pole 8 with a minimum of 4 or 25% spare cores per cable.	m	33	A
21	Slot cutting (10x80mm) of inductive 'AX & CX' loops; to include all loop cable, backfill.	m	54	A
22	Slot cutting (10x80mm) of inductive 'CY' loop; to include all loop cable, backfill.	m	28	A
23	Slot cutting (10x80mm) of inductive 'AZ & CZ' loops; to include all loop cable, backfill.	m	48	A
24	Slot cutting (10x80mm) of inductive 'SDE1a, SDE1b, SDE2a, & SDE2b' loops; to include all loop cable, backfill.	m	55	A
25	Supply and install 2 pair detector cable to loop positions (1 pair used, 1 pair spare per loop)	m	669	A
26	Supply and install re-usable "bottle" type joints.	1	7	A

DRAWING REFERENCE - AT18043-01-01-A				
CIVILS ITEMS				
Item No.	Description	Unit	Quantity	Rev.
1	Install NAL controller base. (To be free issued by the signals contractor.)	1	1	A
2	Install feeder pillar next to controller complete with double pole isolator as shown on the drawing.	1	1	A
3	Provide hard standing area around the controller and feeder pillar to allow access for engineers and reduce foliage maintenance.	Item	1	A
4	Supply and install NAL RS115DF pole retention socket into footway or island to manufacturer's guidelines. Locations as shown on the drawing.	1	8	A
5	Supply and install 600x600mm twin walled plastic ducting chamber allowing 450mm cover for ducting in footway and 750mm cover for ducting in carriageway; complete with plastic composite lid and steel frame.	1	5	A
6	Supply and install 450x450mm twin walled plastic ducting chamber allowing 450mm cover for ducting in footway and 750mm cover for ducting in carriageway; complete with plastic composite lid and steel frame.	1	6	A
7	Supply and install carriageway loop box following the manufacturer's installation guidelines; complete with cast iron lid and frame.	1	6	A
8	Supply and install 1x50mm ID smooth bore black polyethylene ducting between the traffic signal controller cabinet and the feeder pillar. Ducting to be laid with a coverage depth of 450mm in footway. Surface reinstatement to match existing materials.	m	2	A

9	Supply and install 1x100mm ID smooth bore orange polyethylene traffic signal ducting runs between chambers. Ducting to be laid with a coverage depth of 450mm in footway and 750mm in carriageway. Surface reinstatement to match existing materials.	m	112	A
10	Supply and install 3x100mm ID smooth bore orange polyethylene traffic signal ducting runs between chambers. Ducting to be laid with a coverage depth of 450mm in footway and 750mm in carriageway. Surface reinstatement to match existing materials.	m	29	A
11	Supply and install 400x400mm red tactile paving slabs. Surrounding surface reinstatement to match existing materials.	m ²	23.4	A
12	Apply carriageway markings as shown on the drawing.	Item	1	A