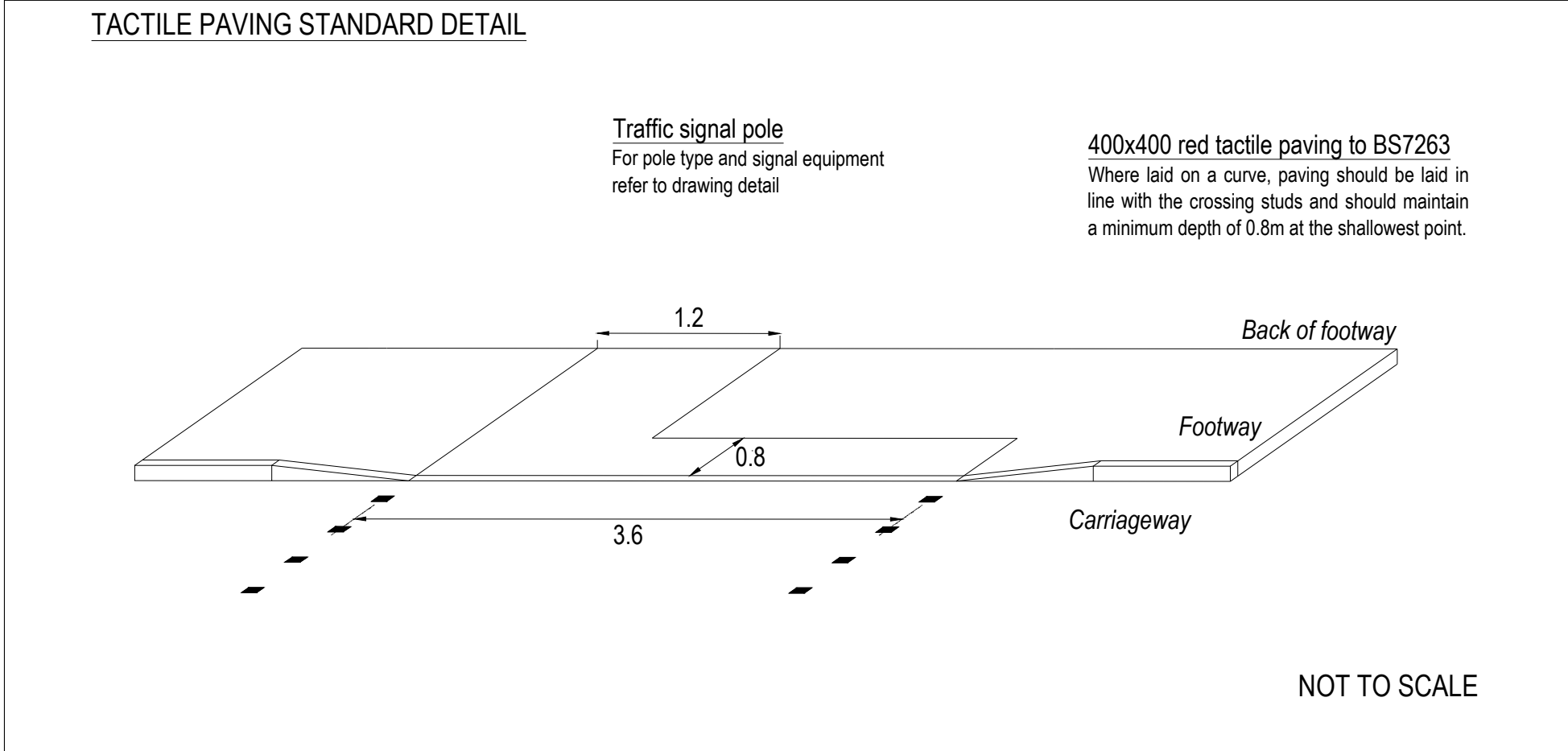
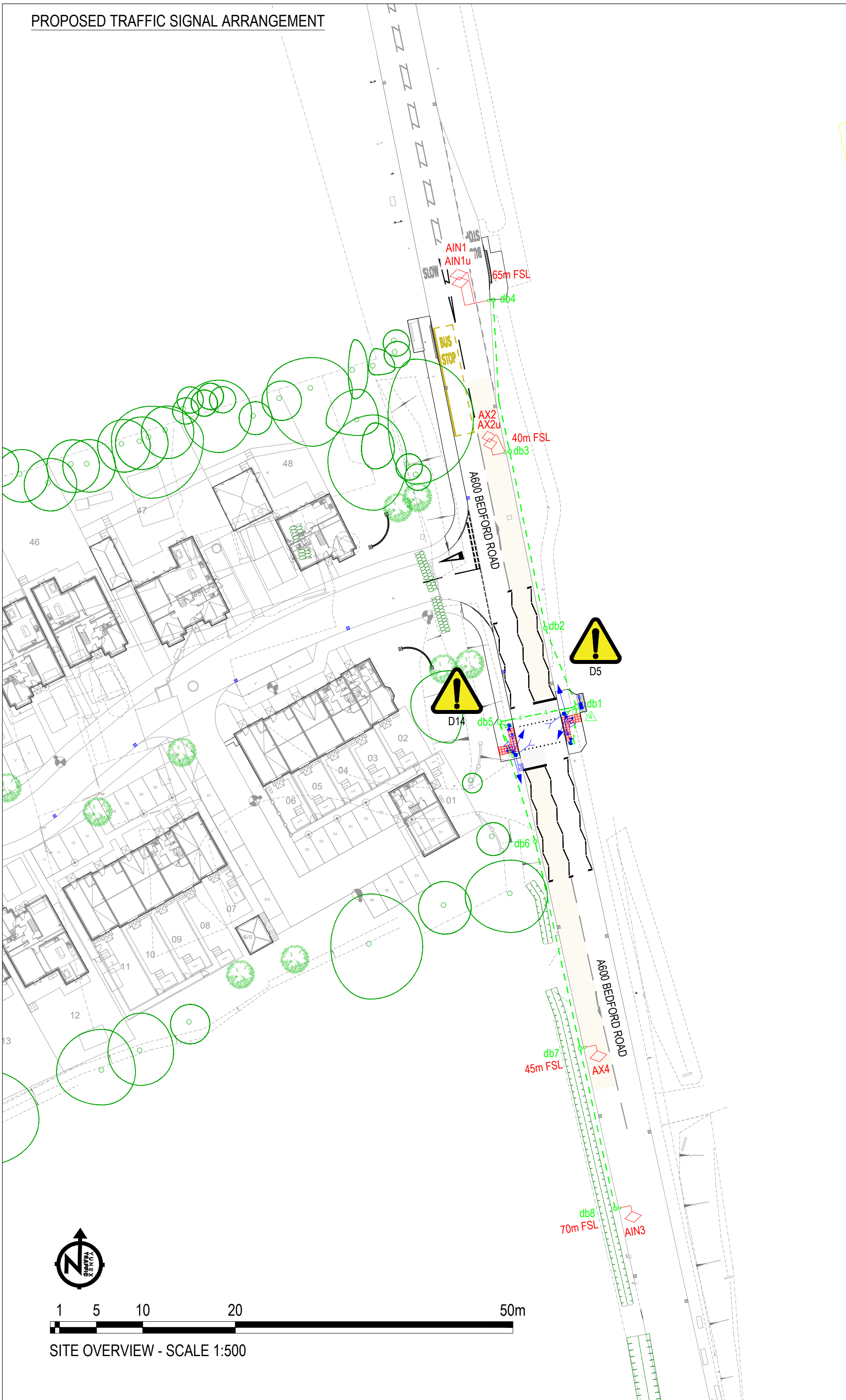
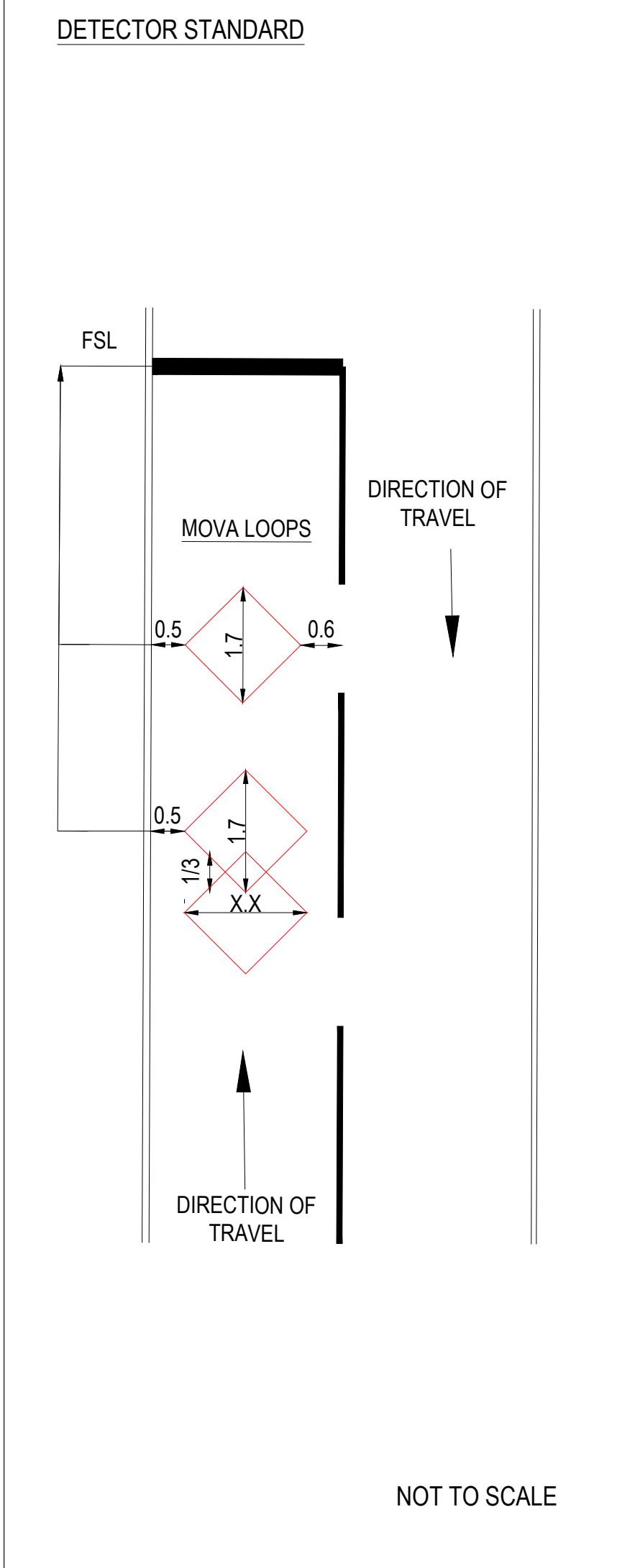
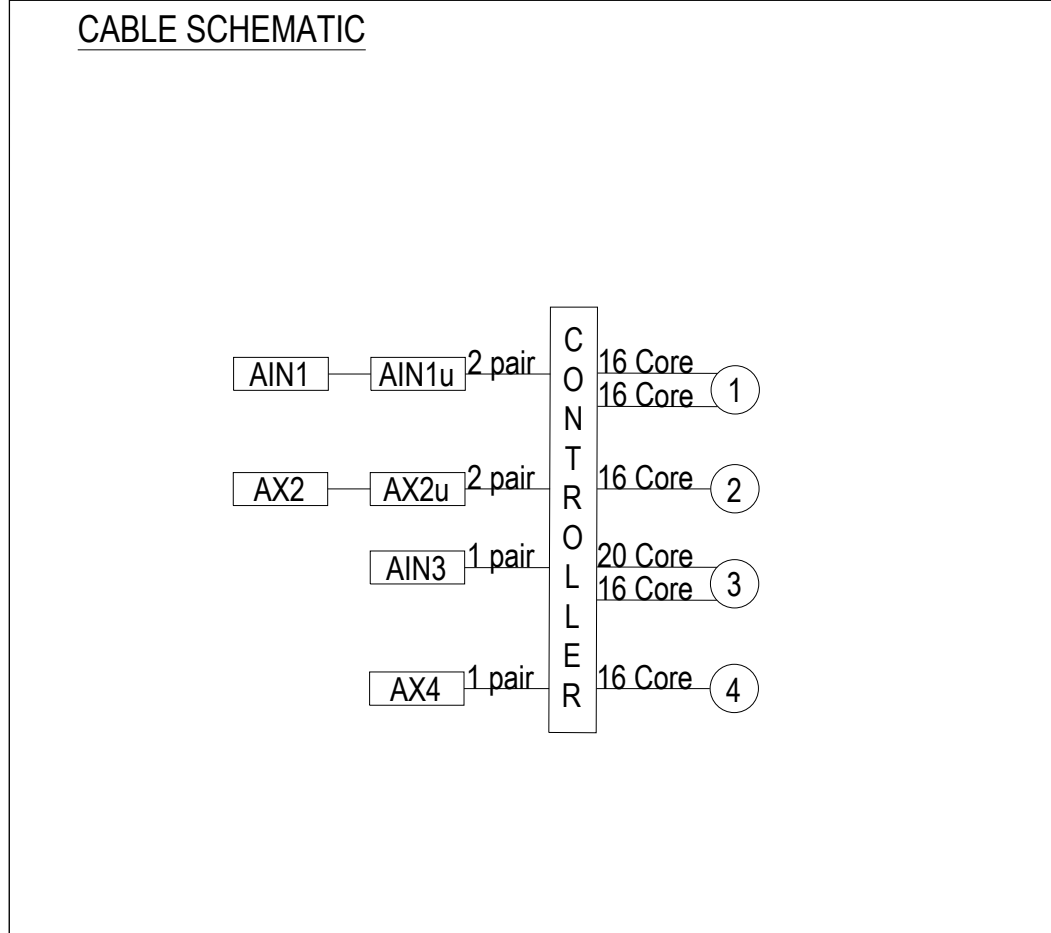
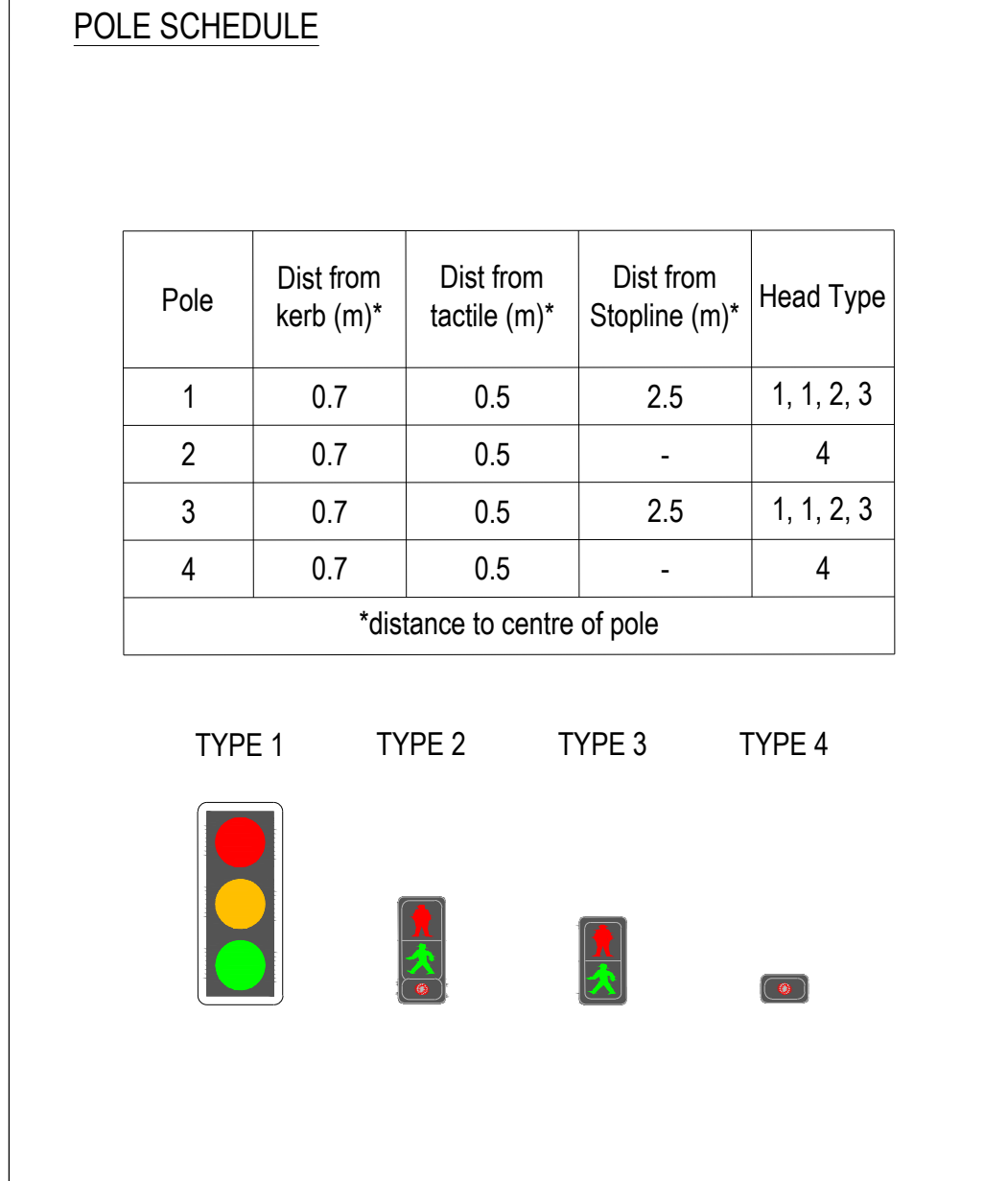
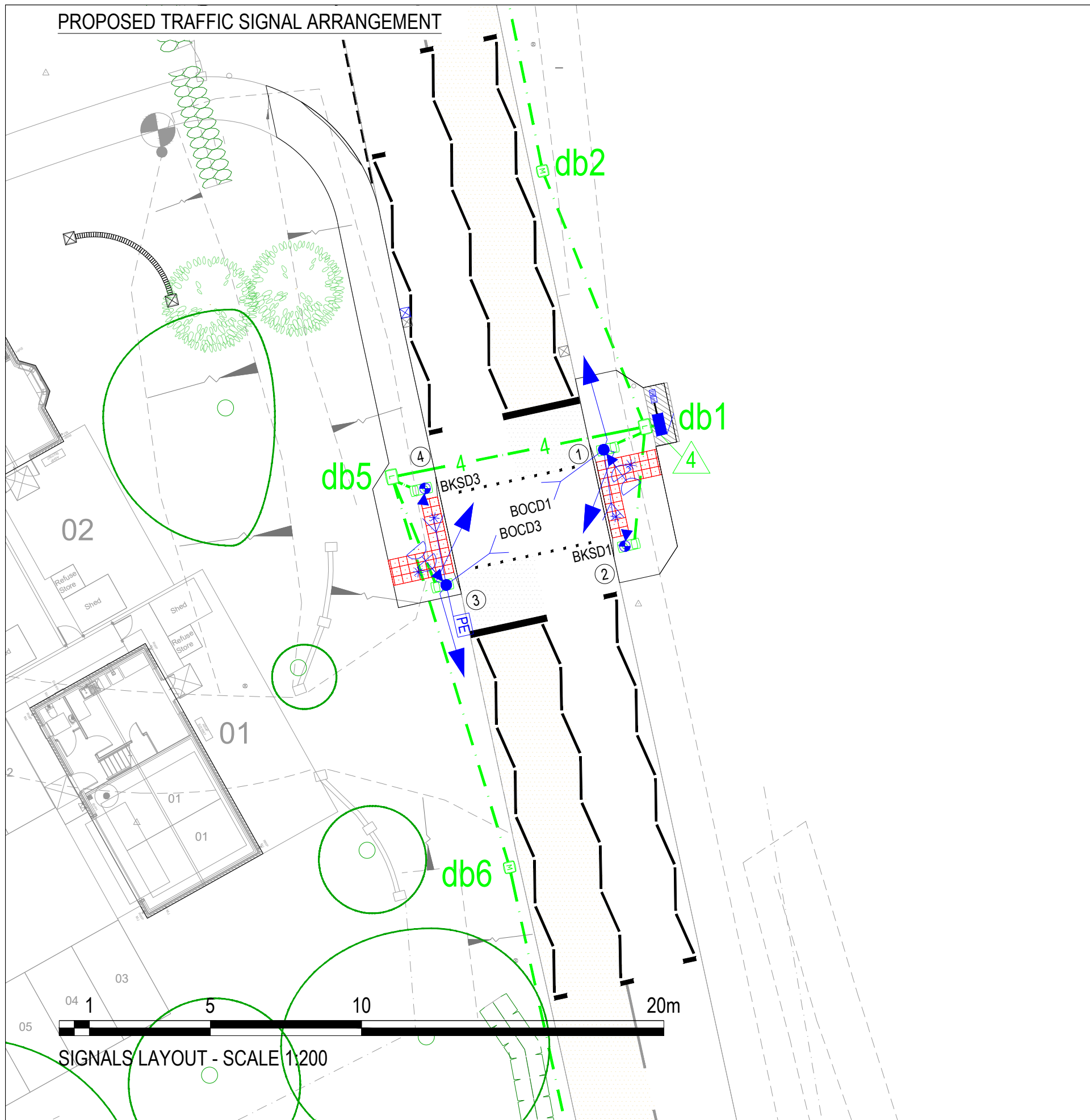




PEDESTRIAN CROSSING TIMINGS

Period	Signals Shown		Timings (seconds)
	To Pedestrians	To Vehicles	Phase B = 7.3m
1	Red Figure	Green	7-20
2	Red Figure	Amber	3
3	Red Figure	Red	3 - Gap 3 - Force
4	Green Figure	Red	5
5	Red Figure	Red	3
6	Red Figure	Red	8
7	Red Figure	Red with Amber	2

NOTES

GENERAL

- These works should be completed in accordance with this drawing, associated technical note (871246526-YU-00-XX-TN-Y-0001) and local authority specification. Any deviation should be discussed and agreed with the designer/local authority representative prior to commencing works.
- A partial electrical design has been completed to inform ducting and cable core requirements. It is the responsibility of the traffic signal contractor to complete a full electrical design in accordance with BS7671.
- Drawing to be reproduced in colour.

CIVILS

- Traffic signal ducting should be orange in colour, high density polyethylene with 'Traffic Signals' marked at 1m intervals. Draw ropes should be provided in the duct runs for the use of pulling cable. Any bends in duct runs should be kept to a minimum.
- Ducts in the carriageway to have a minimum of 750mm cover and ducts in the footway/verge to have a minimum of 450mm cover.
- If the existing road surface doesn't achieve a PSV rating of +68, then buff High Friction Surfacing (HFS) shall be applied for an absolute minimum of 50m from the stop line on each approach and grey HFS should be applied between each stop line and it's respective first row of pedestrian studs.
- All poles to be positioned to allow a minimum of 500mm clearance from the edge of any equipment to the edge of the carriageway, therefore poles to be positioned 0.7m from the edge of the carriageway.
- Signal poles 1 & 3 to be rotated 45° to ensure the signal heads have a minimum of 500mm clearance from the carriageway.
- Loop positions are shown in indicative locations, with distances from their associated stop lines and should be cut as per the standard detail. If there is a variation between the indicated and actual locations then clarification should be sought from the designer.

SIGNING AND LINING

- All new road markings to be laid in accordance with the 'Traffic Signs Regulations and General Directions 2016'.
- Road markings have been designed and supplied by others. Refer to Civils layout drawings by PTA for proposed white lining.
- Refer to Civils layout drawings by PTA for signing details and Street Lighting layout drawings by PTA for lighting column works.

TRAFFIC SIGNAL EQUIPMENT

- All equipment to be ELV (Extra Low Voltage).
- All traffic signal poles / cabinets to be grey in colour.
- Height of all red aspects to be consistent across the site. Distance between the bottom of the signal head and finished surface level to be a minimum of 2.4m.
- All traffic signal heads to be fitted with backing boards.
- Nearside pedestrian indicators are to be installed at 30 degrees to the carriageway edge. Exact orientation of nearside indicators to be agreed on site with local authority representative prior to installation.
- All right hand side push buttons to be fitted with audio units, to be timetabled for activation initially set to activate between 07:00 and 22:30.
- The contractor is responsible for the provision of a suitable 230V 50Hz electrical supply, to be terminated into the adjacent electrical supply pillar (supplied by the signals contractor). The signals contractor will connect to the main supply via a suitably rated lockable isolator.
- Earth rod to achieve a reading of less than 20 ohms.
- 25% or 4 spare cores to be maintained to each pole.
- Outstation with latest MOVA licence, 4G compatible router and cabinet mounted aerial to be installed. OMCU is to be compatible with the Overseeing Organisation's SWARCO in-station R.M.S. Peek Chameleon OMU will need to be provided.

COMMUNICATIONS

- 4G SIM card to be free-issued by the local authority.

SYSTEMS

- Yunex Traffic ITS Consultancy Services to provide MOVA validation and MOVA dataset.

DRAWING N° 871246526-YU-00-XX-DR-Y-0001 REVISION C1

KEY:- DO NOT SCALE

TRAFFIC SIGNAL ITEMS

- 4.0m Straight Non-Passive Traffic Signal Pole
- 2.0m Stub Traffic Signal Pole
- Side Hung Bracket
- Primary Signal Head
- Solar Cell
- Combined Nearside Puffin Signal and Pedestrian Demand Unit with Audio Unit and High Level Repeater
- Pedestrian Demand Unit
- Tactile Rotating Cone
- On-Crossing Detector
- Kerbside Detector
- ELV Pedestrian Crossing Controller installed on NAL controller base
- Electricity Feeder Pillar
- Earth Rod
- MOVA Loop

CIVIL ENGINEERING ITEMS

- RS115x600 Pole Retention Socket
- 1 x 50mm Dia. Black Electricity Ducting
- 1 x 100mm Dia. HDPE Traffic Signal Ducting
- 4 x 100mm Dia. HDPE Traffic Signal Ducting
- Red Tactile Paving
- 600 x 600mm NAL Stakkabox Chamber with Composite Cover
- 450 x 450mm NAL Stakkabox Chamber with Composite Cover
- Carriageway Loop Chamber
- Grey High Friction Surfacing
- Buff High Friction Surfacing
- Hard Standing Area

RISK ASSESSMENT INFORMATION

In addition to the hazards and risks normally associated with the type of works detailed on this drawing, please refer to the Yunex Limited project specific design risk assessment. Where possible, control measures have been introduced to reduce the risk to an appropriate level. Where a residual design risk remains, a risk triangle, as shown above, has been added to the drawing with the design risk assessment reference number shown. No residual construction risks are highlighted on this drawing

REV	DESCRIPTION	TB	DC	DC	DATE
C1	ISSUED FOR CONSTRUCTION	TB	DC	DC	26/01/2024
P5	UPDATES FOLLOWING LA COMMENTS	TB	MG	MG	04/07/23
P4	UPDATES FOLLOWING LA COMMENTS	TB	MG	MG	14/04/23
P3	UPDATED GENERAL ARRANGEMENT	TB	MG	MG	14/03/23
P2	UPDATES FOLLOWING LA COMMENTS	TB	AJM	MG	27/02/23
P1	FIRST ISSUE	TB	AJM	MG	22/08/22

YUNEXTRAFFIC

DRAWING STATUS A - ISSUED FOR CONSTRUCTION

CUSTOMER CALA HOMES

SCHEME TITLE DETAILED PUFFIN CROSSING TRAFFIC SIGNAL DESIGN A600 BEDFORD ROAD ICKLEFORD HERTFORDSHIRE

SCALE AS SHOWN DATE: 26/01/2024

PAPER SIZE: A1 DRN: TB

CHAS APP: DC

SHEET: 1 of 1