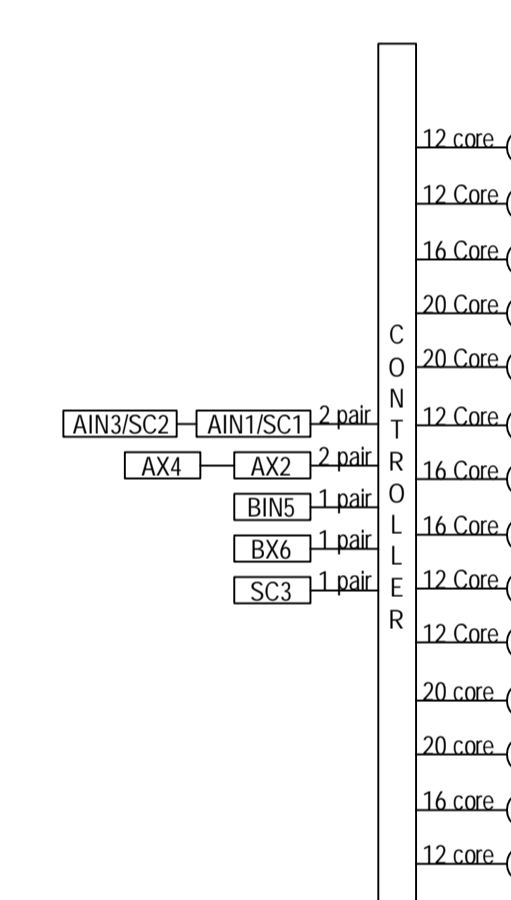


**RISK ASSESSMENT INFORMATION**

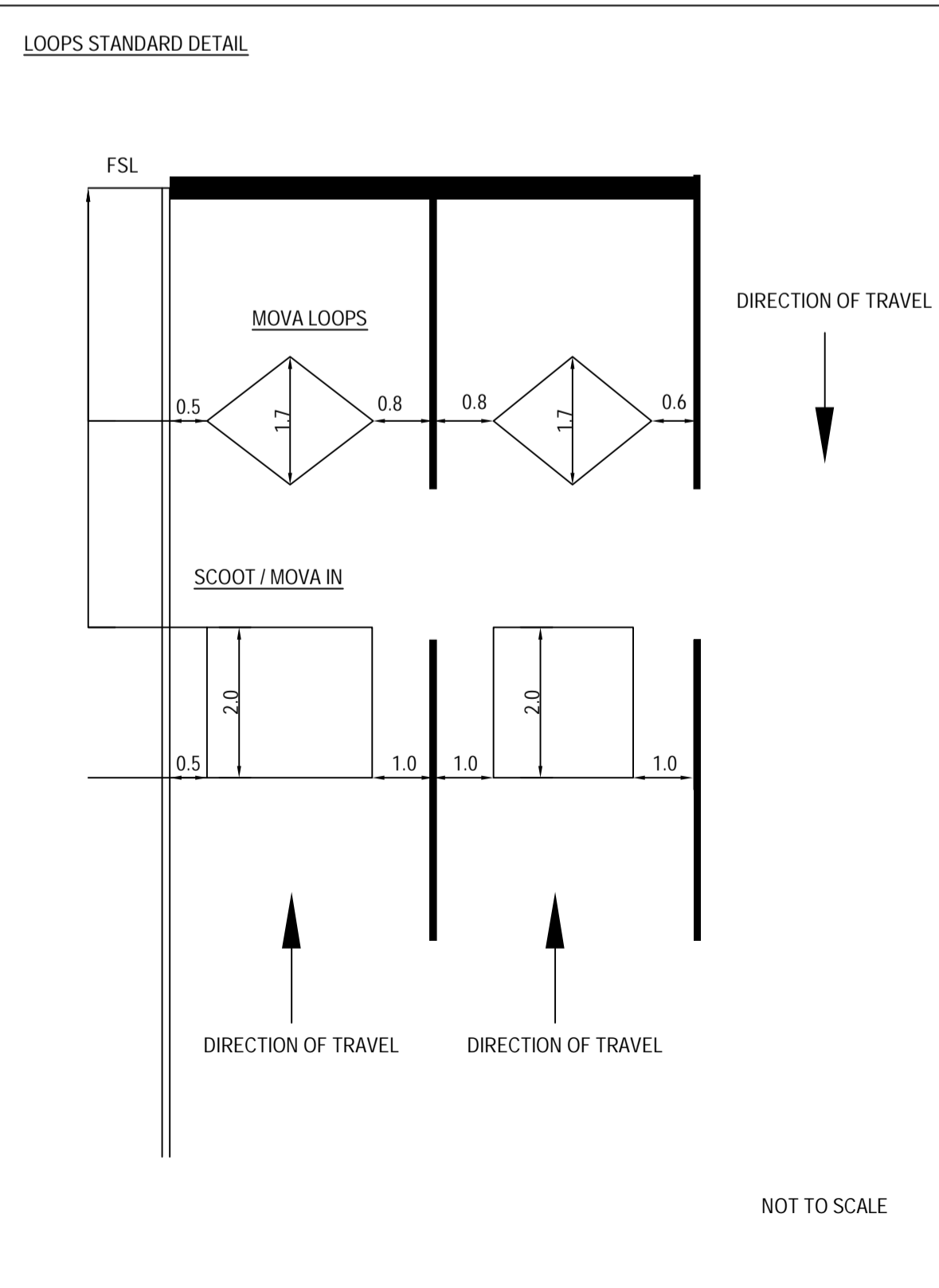
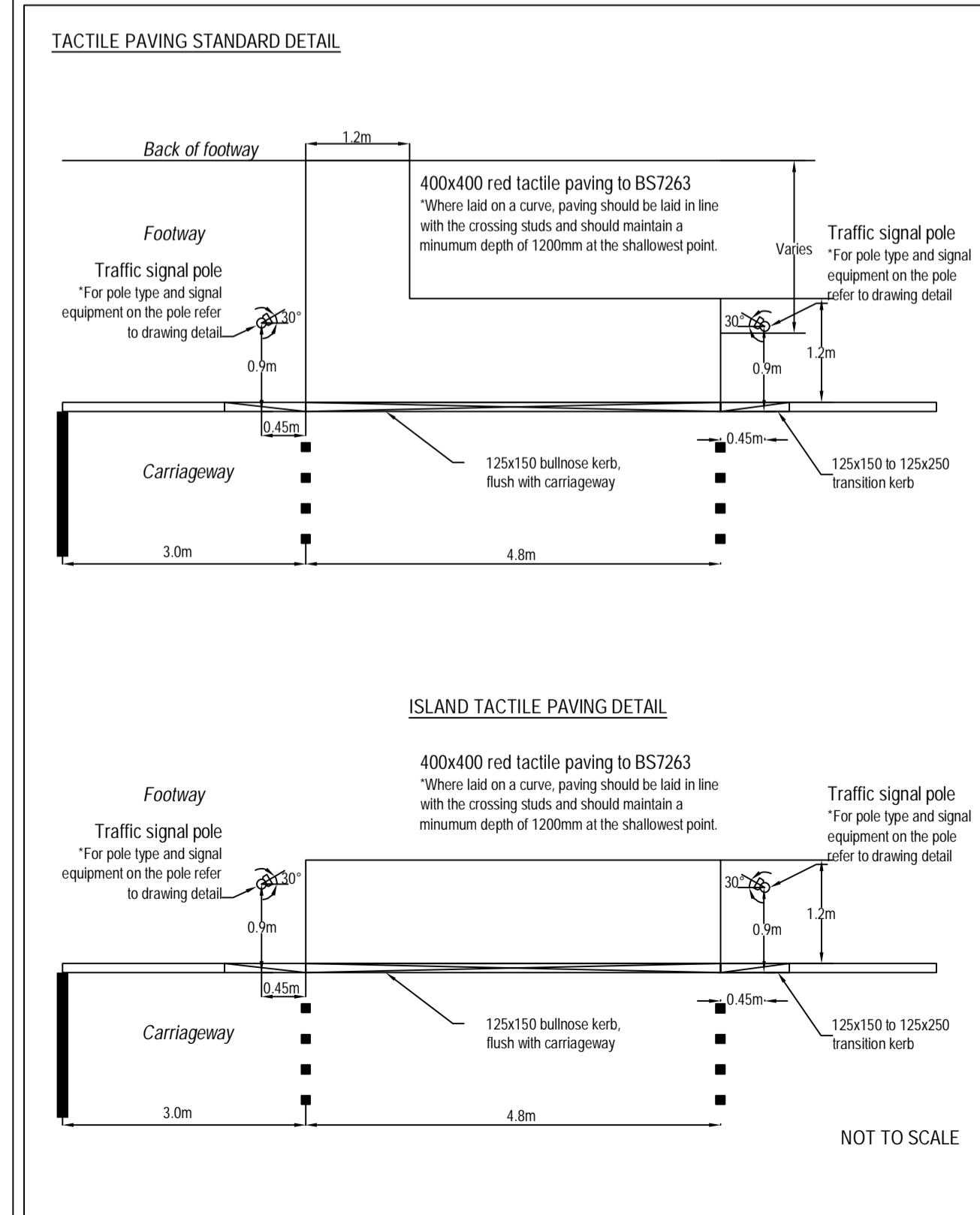
In addition to the hazards and risks normally associated with the type of works detailed on this drawing, please refer to the Siemens project specific design risk assessment. Where possible, control measures have been introduced to reduce the risk to an appropriate level. Where a residual design risk 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.

**CABLE SCHEMATIC**



**NOTES**

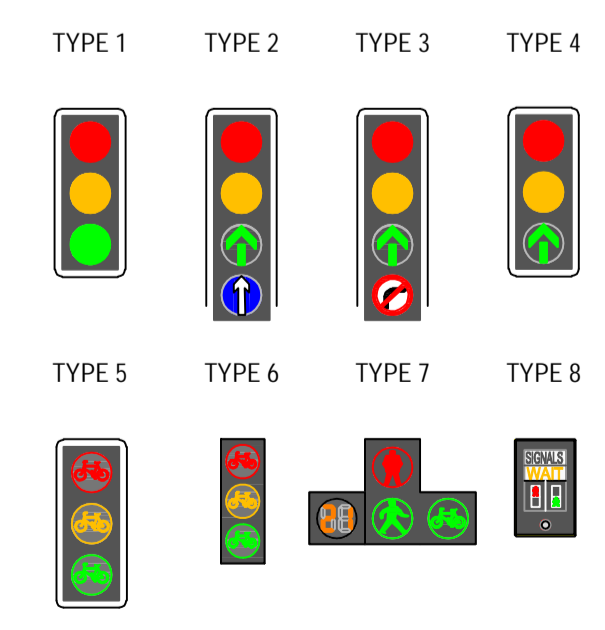
- GENERAL**
- These works should be completed in accordance with this drawing, associated technical note (858435436-SIE-00-XX-TN-Y-0001) and local authority specification (SCC Traffic Control Systems specification for the Supply and Installation of Traffic Signals). Any deviation should be discussed and agreed with the designer/local authority representative prior to commencing works.
  - Drawing to be reproduced in colour.
  - A full electrical design for the traffic signal system has not been completed as part of the traffic signal design. It is the responsibility of the traffic signal contractor to complete an electrical design in accordance with BS7671. On completion of the installation a fully completed electrical installation certificate should be provided to the highway authority, signed by the electrical design team, installation team and the inspection and testing team.
- CIVILS**
- Existing ducting shall be utilised and proposed ducting shall be tied in with the existing duct network as shown on the signal drawing.
  - Proposed Traffic signal ducting should be orange in colour, high density polyethylene of 100mm dia with 'Traffic Signals' marked at 1m intervals. Draw ropes should be provided in the duct runs for the use of pulling cable. The maximum bend in ducting runs should not exceed 45 degrees radius.
  - Ducts in the carriageway to have a minimum of 750mm cover, ducts in the footway/verge to have a minimum of 450mm cover.
  - All new and relocated poles to be installed in NAL RS115x750DF pole retention sockets and are to be positioned to allow a minimum of 460mm clearance from the edge of any equipment to the edge of the carriageway. Final position to be agreed with the SCC representative prior to installation.
  - Coloured High Friction Surfacing indicated on the drawing has been proposed by the client.
- SIGNING AND LINING**
- All 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.
  - Pedestrian studs shall be permanent non-reflecting road studs shall be a proprietary make, square silver coloured (stainless steel) of a size between 95mm and 110mm.
  - Temporary 'New Road Layout Ahead' sign to diag 7014 to be erected on southbound approach on Victoria Way, on the nearest lamp column or other suitable post at a distance of 65m. Sign to be taken down after a period of no longer than 3 months.



**POLE SCHEDULE**

Pole	Dist from kerb (m)*	Dist from tactile (m)**	Dist from stopline (m)**	Head Type
1	0.9	0.45	-	8
2	0.9	0.45	-	8
3	0.9	0.45	-	2,8
4	0.9	0.45	-	2,7,8
5	0.9	0.45	-	2,7**8
6	0.9	0.45	-	8
7	0.9	0.45	-	7,8
8	0.9	0.45	-	4,7**8
9	0.9	-	1.0	3
10	0.9	-	1.0	3
11	-	-	-	Existing 1,5,6,8
12	-	-	-	Existing 1,7,8
13	-	-	-	Existing 1,7,8
14	-	-	-	Existing 8

\*distance to centre of pole  
 \*\*aspects fitted with horizontal louvres



- TRAFFIC SIGNAL ITEMS - NEW**
- 4.2m Non-Passive Straight Traffic Signal Pole
  - 2.0m Non-Passive Stub Traffic Signal Pole
  - Primary ELV RAGA LED Signal Head with Ahead Green Arrow Aspect
  - Secondary ELV RAGA LED Signal Head with Ahead Green Arrow Aspect
  - Primary ELV High Level Cycle RAG LED Signal Head
  - Primary ELV Low Level Cycle Repeater RAG LED Signal Head (100mm)
  - 'Ahead Only' Box Sign
  - 'No Right Turn' Box Sign
  - Photo-Electric Coil (PE)
  - ELV Farside Pedestrian/RM/GM/Cyclists Aspects with ELV PCATS Countdown Indicator
  - ELV Farside Pedestrian/RM/GM/Cyclists Aspects with ELV PCATS Countdown Indicator with Horizontal Louvres
  - ELV Wait Indicator & Push Button Unit & Tactile Device
  - MOVA Loop (N & X)
  - SCOOT / MOVA Loop (SC / IN & X)
- TRAFFIC SIGNAL ITEMS - TO BE RETAINED**
- 4.2m Straight Traffic Signal Pole
  - Primary ELV RAG LED Signal Head
  - Junction Traffic Signal Controller Cabinet installed on NAL Controller Base
  - Electric Feeder Pillar (FP)
  - BT Communication Post Joining Large Pillar
  - MOVA Loop (N & X)
  - SCOOT Loop (SC)
  - Stop Line Above Ground Detector (SL)
  - Microwave Vehicle Detector (MVD)
- CIVIL ENGINEERING ITEMS - NEW**
- 1 x 100mm Dia. HDPE Traffic Signal Ducting
  - 2 x 100mm Dia. HDPE Traffic Signal Ducting
  - 4 x 100mm Dia. HDPE Traffic Signal Ducting
  - Carriageway Loop Chamber 50mm Dia. Underkerb Duct
  - 450 x 450mm Twin-Walled Duct Chamber
  - 600 x 600mm Twin-Walled Duct Chamber
  - RS115x750 Pole Retention Socket
  - Pole Number
  - Red Tactile Paving (400x400mm)
  - High Friction Surface
  - Stainless Steel Studs
  - Intervisibility Zone
- CIVIL ENGINEERING ITEMS - TO BE RETAINED**
- 1 x 50mm Dia. Black Electricity Ducting
  - 1 x 50mm Dia. Grey Electricity Ducting
  - 1 x 100mm Dia. HDPE Traffic Signal Ducting
  - 2 x 100mm Dia. HDPE Traffic Signal Ducting
  - 4 x 100mm Dia. HDPE Traffic Signal Ducting
  - Carriageway Loop Chamber 50mm Dia. Underkerb Duct
  - Large Duct Box (600x600x750mm)
  - Medium Duct Box (450x450x750mm)
  - Small Duct Box (450x300x750mm)
  - RS115x750 Pole Retention Socket
  - Existing Red Coloured Tactile Paving (400x400mm)

P3	POLE 10 & DUCTING ADDED	MG	DC	DC	29/06/23
P2	UPDATED TO REFLECT LAYOUT CHANGES	SM	MG	SF	31/01/22
P1	FIRST ISSUE	AC	SM	MG	29/01/21
REV	DESCRIPTION	DRN	CHK	APP	DATE

**SIEMENS**

DRAWING STATUS: **S4 - ISSUED FOR CONSTRUCTION APPROVAL**

CUSTOMER: VECTOS INFRASTRUCTURE LTD

SCHEME TITLE: TRAFFIC SIGNAL DESIGN  
 WOKING TOWN CENTRE DEVELOPMENT  
 VICTORIA WAY / GOLDSWORTH ROAD / GUILFORD ROAD / HIGH STREET  
 WOKING, SURREY

www.siemens.co.uk/drftic  
 Siemens Mobility - Intelligent Traffic Systems  
 Scale: A1  
 Date: 21/06/23

SCALE AS SHOWN DATE: 21/06/23  
 PAPER SIZE: A1 DRN: MG  
 CHK: SM  
 APP: SM  
 SHEET: 1 of 11

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