

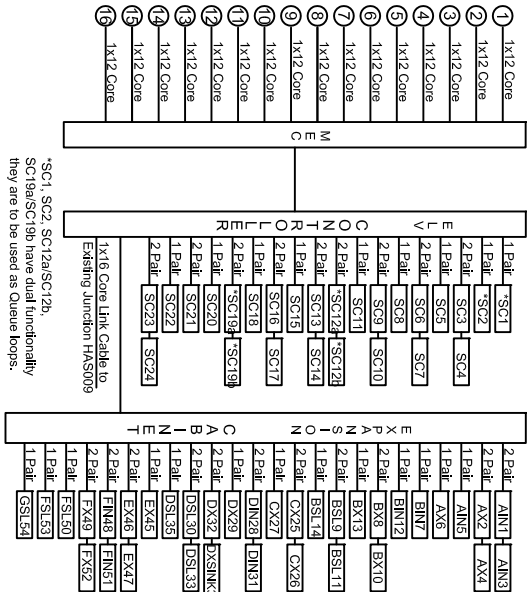
PASSIVE POLE WIND LOAD RESULTS						
Pole No	Height (m)	Standard Level Aspects	High Level Aspects	SAPA Pole		Utility Factor*
				SAPA Pole	Part 000, Part 000k	
1	4.0	2x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.42
2	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
3	6.0	2x3	1x3 & CCTV	SAPA 165 - 145 - 6m	15,000, 165,04 6m	0.96
4	6.0	1x3	1x3	SAPA 165 - 145 - 6m	15,000, 165,04 6m	0.88
5	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
6	6.0	2x3	1x3 & CCTV	SAPA 165 - 145 - 6m	15,000, 165,04 6m	0.96
7	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
8	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
9	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
10	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
11	4.0	2x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.42
12	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
13	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
14	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
15	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30
16	4.0	1x3	-	SAPA 114 - 145 - HD	15,000, 145,000k	0.30

NOTES

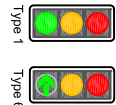
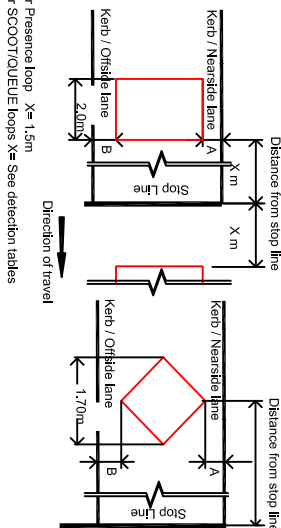
1. Passive portalling is based on an assessment carried out by the Design Engineer and the guidance as laid out in BS EN 12767:2007 UK Annex.
2. Please refer to drawing detail (for exact traffic signal aspect arrangement in each headlight) (i.e. 3 aspect, 4 aspect, L shape etc).
3. *Poles with a unity factor of less than 1 are adequate.

6. CCTV camera assumed same size as Silecore mounted at top or middle of a pole.
7. All poles are straight not cranked.
8. All signal poles are to be installed into pole retention socket (NALRS115). Tall poles pole 3, 4 and 6 to be installed into large pole retention sockets (NALRS165). Termination enclosure is required for each pole. Configurations as per the signal drawing.

CABLE & FEEDER DIAGRAM



SCOOT / PRESENCE / QUEUE DETAILS	MOVA LOOP DETAIL



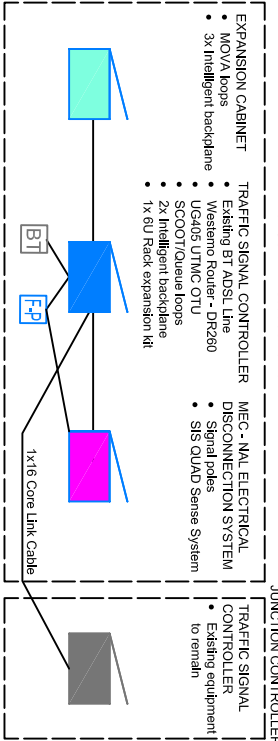
SIGNAL HEAD TYPE SCHEDULE

SCOOT DEFECTOR SCHEDULE				
Detector Label	Detector Distance from Associated Stop line (m)	Loop A	Loop B	Detector Type
		distance from kerb or on line	distance from kerb or on line	
SC1B01	220.00	0.4	1.25	SCOOT10
SC3B02	220.00	1.25	0.4	SCOOT10
SC3	1.50	1.25	0.4	SCOOT
SC4	1.50	1.0	0.4	SCOOT
SC5	1.50	0.4	0.4	SCOOT
SC6	103.00	0.4	1.25	SCOOT
SC7	103.00	1.25	1.25	SCOOT
SC8	103.00	1.25	0.4	SCOOT
SC9	1.50	0.4	1.25	SCOOT
SC10	1.50	1.0	1.0	SCOOT
SC11	1.50	1.25	0.4	SCOOT
SC12a/D03a	150.00	0.4	1.25	SCOOT
SC12b/D03b	150.00	1.25	1.0	SCOOT
SC13	1.50	0.4	1.25	SCOOT
SC14	1.50	1.0	1.0	SCOOT
SC15	1.50	1.25	2.1	SCOOT
SC16	1.50	0.4	1.25	SCOOT
SC17	1.50	1.0	1.0	SCOOT
SC18	1.50	1.25	0.4	SCOOT
SC19a/D04a	120.00	1.25	1.25	SCOOT
SC19b/F04b	120.00	1.25	0.4	SCOOT
SC20	1.50	0.4	1.25	SCOOT
SC21	1.50	1.25	0.4	SCOOT
SC22	1.50	0.4	1.25	SCOOT
SC23	1.50	1.25	1.25	SCOOT
SC24	1.50	1.25	0.4	SCOOT

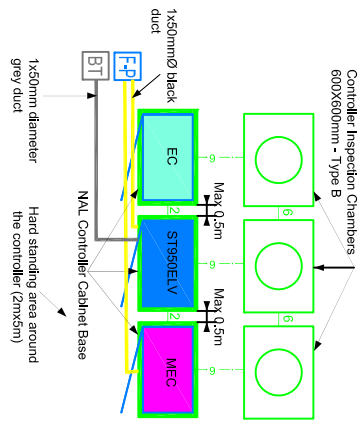
SITING OF POLES & EQUIPMENT SCHEDULE

SINING OF POLES & EQUIPMENT SCHEDULE							
Pole No	Pole Height (m)	Passive Pole Type	Pole Distance from Kerb Face (m)	Primary Signal Head Type	Secondary Signal Head Type	PE Signal Cell	Notes
1	4.0	Straight	1.50	-	2 x Type 1	-	Cut away hoods required
2	4.0	Straight	1.10	1 x Type 1	-	1	-
3	6.0	Straight	1.75	3 x Type 1	-	-	RAG high level repeater & Existing CCTV to be installed on pole 3
4	6.0	Straight	1.50	2 x Type 1	-	-	RAG high level repeater
5	4.0	Straight	1.10	1 x Type 1	-	-	-
6	6.0	Straight	1.30	3 x Type 1	-	-	RAG high level repeater
7	4.0	Straight	1.10	1 x Type 1	-	-	-
8	4.0	Straight	1.50	-	1 x Type 1	-	Cut away hoods required
9	4.0	Straight	1.50	-	1 x Type 1	-	Cut away hoods required
10	4.0	Straight	1.10	1 x Type 1	-	-	-
11	4.0	Straight	1.60	2 x Type 1	-	-	-
12	4.0	Straight	1.25	1 x Type 1	-	-	-
13	4.0	Straight	1.10	1 x Type 6	-	-	Cut away hoods required
14	4.0	Straight	1.25	-	1 x Type 6	-	Cut away hoods required
15	4.0	Straight	1.10	-	1 x Type 1	-	Cut away hoods required
16	4.0	Straight	1.50	-	1 x Type 1	-	Cut away hoods required

UTMC NETWORK TELEMETRY



CONTROLLER & EC & MEC DETAILS



0	ALL RED	1		2	
DUMMY		Gyatory		MZ1/E1B off-slip	
3	ALL RED	4		5	
DUMMY		Gyatory		Storeham Lane	
6	ALL RED	7		8	
DUMMY		Gyatory		Wilde Lane	
9	ALL RED	10			
DUMMY		Wilde Lane Left Turn			

NOTES

1. **All white fitting to be laid in accordance with 'The Traffic Signs and General Direction 2002'. Any white fitting changes must be confirmed with the Overseeing Organisation.**
2. **All equipment and installation are to be in accordance with the Appendix 1/25 of the scheme and Hampshire County Council (HCC) Traffic Signal General Specifications.**
3. **Grey coloured anti-slip surfacing 15mm from stop lines on the M27 off slips and Stoneham Way, 65m from Stop lines on White Lane, Stoneham Way and the motorway bridges. Length is short lists set out on site as shown.**
4. **Existing ducting is to be utilised where possible. Existing duct boxes to be clear of driveways. New ducting is required. New ducting must be tied in with the existing ducting as shown on the drawings.**
5. **All duct boxes shall have anti slip covers. All ducting under the footway should have at least 450mm of cover. All proposed ducting under the carriageway or vehicle access should have at least 600mm cover. All proposed duct runs shall be straight from one access chamber to another. Ducts shall not be bent around other existing services. All duct shall be orange, 100mm in diameter, high density, smooth walled flexible.**
6. **Refer to 3/621987/DR/500/101-104 ducting drawings for detail information.**
7. **The Contractor shall ensure that all all works shall be conducted in accordance with the following HCC standard detail drawings. All these details can be found at: http://www2.hants.gov.uk/openneering-services/development-information/standard_details/standarddetails.aspx?category=seal&detail=tim**
 - Traffic signal duct box Type 1 HCC Standard Detail Dwg No HCC917005C.
 - Traffic signal duct box Type 2 HCC Standard Detail Dwg No HCC917010C.
 - Traffic signal duct box Type 2A HCC Standard Detail Dwg No HCC917018B.
 - Traffic signal controller chambers HCC Standard Detail Dwg No HCC917020A.
 - Traffic signal pole connection HCC Standard Detail Dwg No HCC917028B.
 - Connection of vehicle detector loop to duct box HCC Standard Detail Dwg No HCC917030.
 - Traffic signal retention pole sockets HCC Standard Detail Dwg No HCC917035C.
 - Power supply pillar shall be installed HCC917045
 - Traffic signal duct box Type 3 HCC Standard Detail Dwg No HCC917050.
 - Traffic signal duct box Type 4 HCC Standard Detail Dwg No HCC917055A.
7. **All signal poles to be passive poles and they are to be installed into pole retention socket (NALRS115). Pole 4, and 6 to be use large pole retention sockets (NALRS165).**
8. **Pole 3, and 6 are on tall poles, high level repeater signal heads are to be installed as shown on the drawings.**
9. **The lowest part of any signal head assembly including brackets to have a minimum clearance above the finished ground level of 2.1m.**
10. **Cut away hoods to be installed on secondary signal heads on poles 1, 8, 9, 14, 15 and 16.**

MOVA / VA DETECTION SCHEDULE

MOVA / VA DETECTION SCHEDULE							
MOVA Detection ID No	Detector Label	Detector Depth from Associated Stop Line (m)	Phase Demand	Phase Extend	Loop distance from kerb or 15m lane	Loop distance from kerb or 15m lane	Detector Type
1	AN1	90	-	-	A	B	MOVA/VA
2	AX2	40	A	A	0.4	0.8	MOVA/VA
3	AN3	90	-	-	0.8	0.8	MOVA/VA
4	AX4	40	A	A	0.8	0.8	MOVA/VA
5	AN5	90	-	-	0.8	0.4	MOVA/VA
6	AX6	40	A	A	0.4	0.8	MOVA/VA
7	BN7	100	-	-	0.4	0.8	MOVA/VA
8	BX8	40	B	B	0.8	0.4	MOVA/VA
9	BS9	1.5	B	B	0.4	0.8	MOVA/VA
10	BX10	40	B	B	0.8	0.8	MOVA/VA
11	BS11	1.5	-	-	0.8	0.8	MOVA/VA
12	BN12	100	-	-	0.8	0.4	MOVA/VA
13	AX13	40	B	B	0.8	0.4	MOVA/VA
14	BS14	1.5	B	B	0.8	0.4	MOVA/VA
15	BO15C1	225	-	-	0.4	1.25	MOVA/VA/Q
16	BO25C2	225	-	-	1.25	0.4	MOVA/VA/Q
25	CX25	35	C	C	0.4	0.8	MOVA/VA
26	CX26	35	C	C	0.8	0.8	MOVA/VA
27	CX27	35	C	C	0.8	0.8	MOVA/VA
28	DN28	90	-	-	0.4	0.8	MOVA/VA
29	DX29	35	D	D	0.4	0.8	MOVA/VA
30	DS130	1.5	D	D	0.4	0.8	MOVA/VA
31	DN31	90	-	-	0.8	0.6	MOVA/VA
32	DX32	35	D	D	0.8	0.8	MOVA/VA
33	DS133	1.5	D	D	0.8	0.8	MOVA/VA
34	DX34	24	D	D	0.8	1.5	MOVA/VA
35	DS135	1.5	D	D	0.8	1.8	MOVA/VA
36	DO36A/C12a	150.00	-	-	0.4	1.25	MOVA/VA/Q
37	DO37B/C12b	150.00	-	-	1.25	1.0	MOVA/VA/Q
45	EX45	30	E	E	0.4	0.8	MOVA/VA
46	EX46	30	E	E	0.8	0.8	MOVA/VA
47	EX47	30	E	E	0.8	0.8	MOVA/VA
48	FN48	95	-	-	0.6	0.8	MOVA/VA
49	FX49	35	F	F	0.6	0.8	MOVA/VA
50	FS150	1.5	F	F	0.8	0.8	MOVA/VA
51	FN51	95	-	-	0.8	0.6	MOVA/VA
52	FX52	35	F	F	0.8	0.8	MOVA/VA
53	FS153	1.5	F	F	0.8	0.4	MOVA/VA
54	GS154	1.5	G	G	3.5	0.4	VA
55	FO45B/C19b	120.00	-	-	1.25	1.25	MOVA/VA/Q
56	FO46B/C19b	120.00	-	-	1.25	0.4	MOVA/VA/Q

INTERSERVE CONSTRUCTION AS-BUILT

REV	DATE	DESCRIPTION	BY	CHKD	APPD
B	04/14	Issued for construction	HAC	SI	GSH
A	12/13	Issued for tender	HAC	SI	GSH

em
leaner, greener, safer

CLIENT

HIGHWAYS
AGENCY

Easton Lane Compound
M3 Junction 9
Winchester
Hampshire
SO23 7TY

Tel: 01962 883000
Fax: 01962 856669

Federated House
London Road
Dorking
RH4 1SZ

• TITLE INTERSERVE CONSTRUCTION
AS-BUILT
TRAFFIC SIGNALS GENERAL
ARRANGEMENT

Sheet 2 of 2

FOR CONSTRUCTION