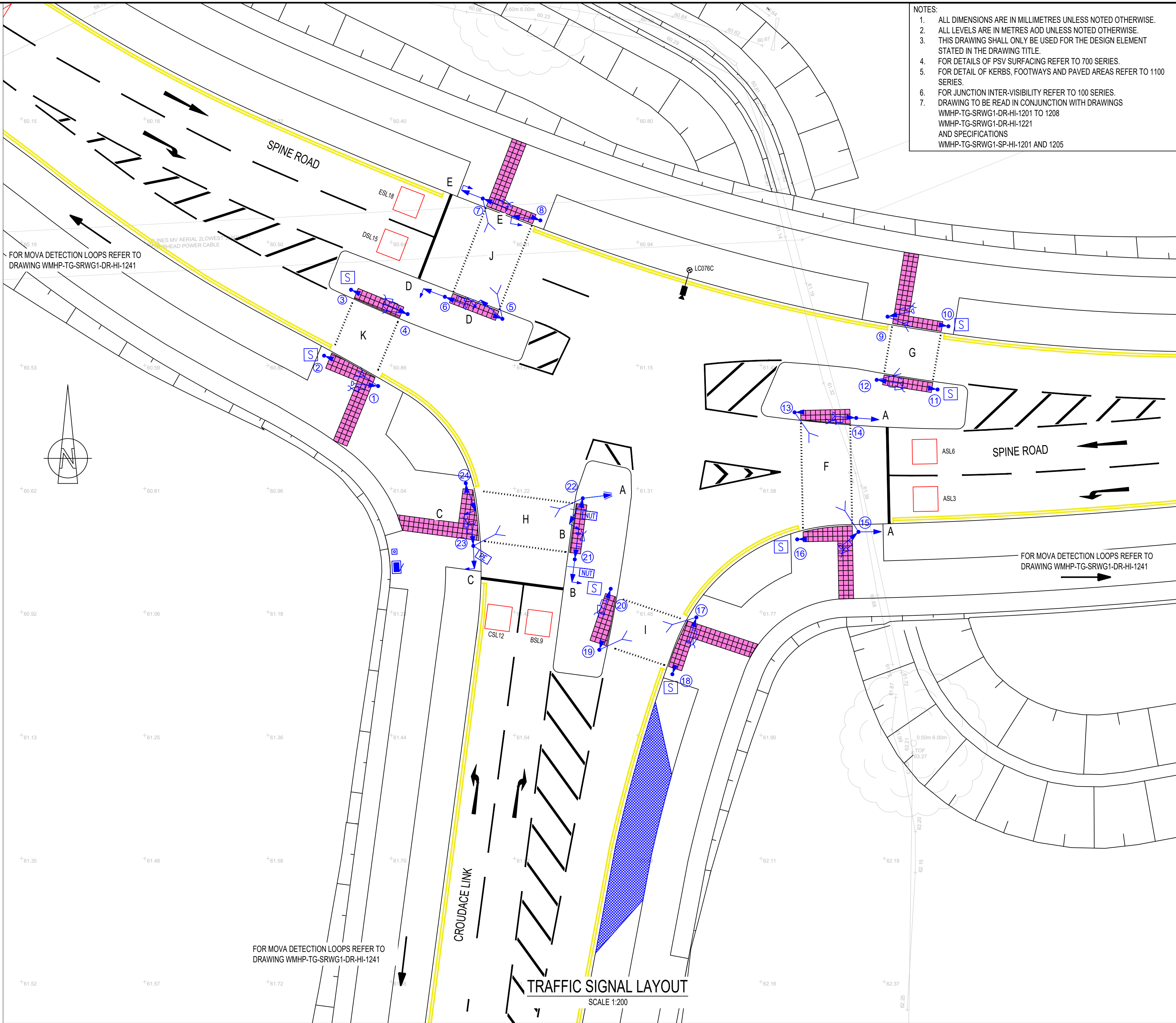


TRAFFIC SIGNAL NOTES

- THE SITE IS A NEW ELV TRAFFIC SIGNAL JUNCTION RUNNING MOVA WITH VA FALLBACK AND REMOTE MONITORING.
- VA USES STOPLINE LOOPS AND X DETECTION.
- NEARSIDE TOUCAN SIGNALS AND PUSHBUTTONS WITH COMBINED PUSHBUTTON AND TACTILE DEVICES ARE UTILISED. AUDIBLE DEVICES ARE NOT UTILISED.
- ON-CROSSING AND KERBSIDE DETECTION IS UTILISED. ON-CROSSING DETECTORS SHALL BE AGD326 OR AGREED EQUIVALENT. KERBSIDE DETECTION IS ONLY UTILISED WHERE THE ASSOCIATED TOUCAN PHASE DOES NOT RUN IN PARALLEL WITH TRAFFIC. WHERE NECESSARY KERBSIDE AND ON-CROSSING DETECTION SHALL BE INSTALLED ON EXTENDED BRACKETS TO ENSURE CLEAR VISIBILITY OF THE REQUIRED DETECTION AREA.
- ALL SIGNAL HEADS, NEARSIDE SIGNALS AND PUSHBUTTONS SHALL BE LED.
- NO SIGNAL EQUIPMENT SHALL BE INSTALLED WITH LESS THAN 450mm CLEARANCE FROM THE KERBFACE.
- THE CONTROLLER CABINET SHALL BE A LARGE FORM CASE WITH A NAL 'CABINET STYLE' BASE APPROPRIATE FOR THE CONTROLLER TYPE.
- LABELLING:
 - THE CONTROLLER CABINET SHALL BE LABELLED WITH THE SITE REFERENCE USING BLACK LETTERS OF 75mm X-HEIGHT IMPRINTED ON A WHITE BACKGROUND AND WITH A BS7671 ELECTRICITY HAZARD WARNING SYMBOL BELOW.
 - THE POWER PILLAR SHALL BE LABELLED WITH THE SITE REFERENCE USING BLACK LETTERS OF 75mm X-HEIGHT IMPRINTED ON A WHITE BACKGROUND AND WITH A BS7671 ELECTRICITY HAZARD WARNING SYMBOL BELOW.
 - ALL POLES TO HAVE POLE NUMBERS WHICH SHALL BE FIXED BEFORE THE SITE ACCEPTANCE TESTING (SAT).
- POLES:
 - SHORT POLES (1.8m) SHALL HAVE WELDED POLE CAPS AND SHALL NOT HAVE CABLE ENTRY SLOTS; AND
 - 4m (NOMINAL) POLES SHALL BE MID-ACCESS FITTED WITH A STANDARD MATCHING COLOUR VENTED POLE CAP. POLES SHALL NOT BE PRE-DRILLED FOR PUSHBUTTONS AND SHALL NOT HAVE CABLE ENTRY SLOTS.
- WHERE INDICATED IN THE POLE SCHEDULE, TRAFFIC SIGNAL HEADS ADJACENT TO FOOTWAYS/CYCLEWAYS USED BY CYCLISTS SHALL BE INSTALLED WITH 2.3m CLEARANCE TO THE UNDERSIDE.
- WHERE INDICATED IN THE POLE SCHEDULE, POLES SHALL BE INSTALLED TWISTED BY 45 DEGREES TO ENSURE CORRECT CLEARANCE OF SIGNAL HEADS FROM EDGE OF CARRIAGEWAY.
- EACH POLE SHALL BE SEPARATELY CABLED FROM THE CONTROLLER EXCEPT SHORT POLES WHICH MAY BE CABLED FROM AN ADJACENT FULL HEIGHT POLE.
- POLES, CONTROLLER, CONTROLLER NAL BASE AND POWER PILLAR SHALL BE FINISHED BLACK.
- A 4G STRATOS UNIT SHALL BE SUPPLIED, INSTALLED AND CONFIGURED TO THE WOKINGHAM BOROUGH COUNCIL (WBC) CLOUD-BASED SYSTEM. A BLACK STRATOS 4G AERIAL SHALL BE FIXED TO THE OUTSIDE OF THE CONTROLLER CASE. SIM CARDS SHALL BE FREE ISSUED BY THE LOCAL AUTHORITY.
- CCTV WITH RADIO COMMUNICATIONS TO BE INSTALLED ON A LIGHTING COLUMN BY OTHER WITH A FUSED SUPPLY IN THE LIGHTING COLUMN BASE AND A COMMANDO SOCKET 6.5m ABOVE GROUND LEVEL. THERE IS NO CONNECTION BETWEEN CCTV AND THE SIGNALS EQUIPMENT.
- THE LOCATION OF THE CONTROLLER, POWER PILLAR AND ALL POLES AND LOOPS TOGETHER WITH THE ALIGNMENT OF SIGNAL HEADS AND NEARSIDE TOUCAN SIGNALS AND PUSHBUTTONS SHALL BE AGREED ON SITE WITH THE LOCAL AUTHORITY TRAFFIC SIGNAL ENGINEER.
- DNO SUPPLY ARRANGEMENT TO BE AGREED/ARRANGED BY CONTRACTOR.
- ALL WORKS SHALL COMPLY WITH THE APPENDIX 12/5 WORKS SPECIFICATION AND ALL OTHER RELEVANT ENGINEERING DETAILS AND DRAWINGS. THE SCHEME SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DMRB CODE OF PRACTICE.

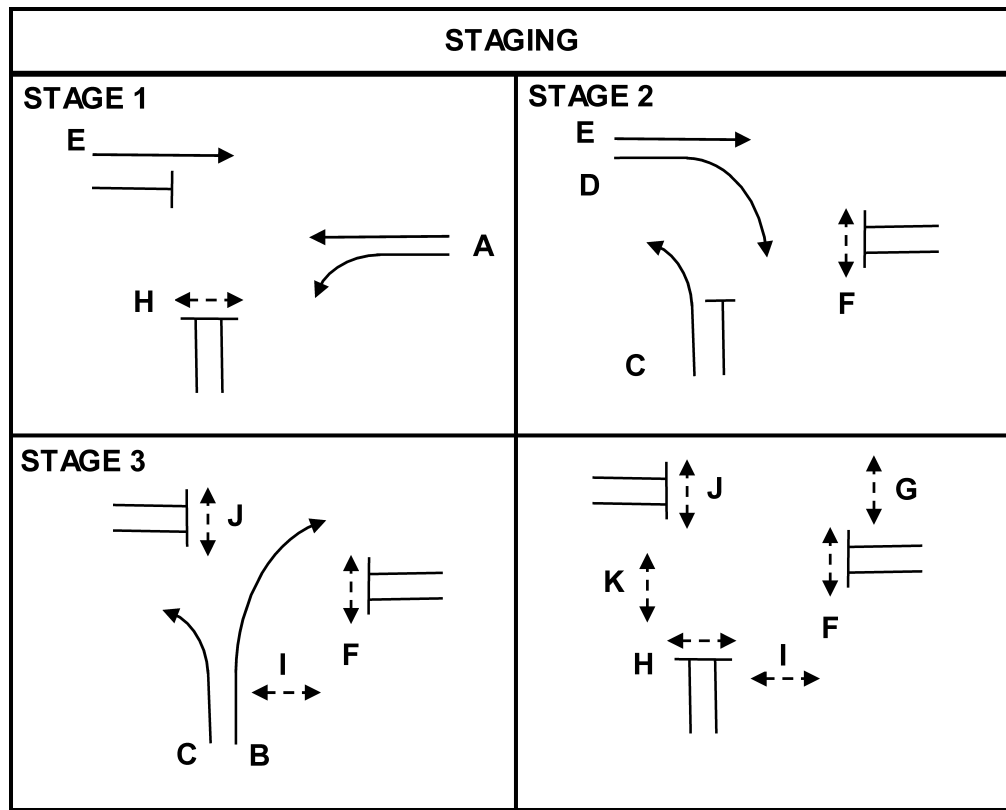


POLE SCHEDULE													
POLE REF	POLE TYPE	TRAFFIC SIGNAL HEADS				TOUCAN EQUIPMENT		DETECTION		SETTING OUT			COMMENTS
		HEAD REFERENCE	HEAD TYPE	PRIMARY HEAD + PRIMARY HOOD	SECONDARY HEAD + SECONDARY HOOD	NEARSIDE TOUCAN SIGNAL	NEARSIDE PUSHBUTTON	ON-CROSSING DETECTOR	KERBSIDE DETECTOR	CLEARANCE STOPLINE TO STUDS	CLEARANCE POLE FROM STUDS	CLEARANCE POLE FROM KERB FACE	
1	4M	-	-	-	-	YES	-	-	YES	-	0.50M	0.60M	17
2	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
3	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
4	4M	-	-	-	-	YES	-	-	YES	-	0.50M	0.60M	
5	4M	1	RAG/A (RIGHT)+	YES	-	-	YES	YES	-	-	0.50M	0.60M	NUT ROUNDEL TO RIGHT OF GREEN ARROW. POLE TWISTED BY 45 DEGREES
6	4M	1	RAG/A (RIGHT)+	YES	-	YES^	-	-	-	3.00M	0.50M	0.60M	POLE TWISTED BY 45 DEGREES
7	4M	1	RAG/A (AHEAD)+	YES	-	YES	-	YES	-	3.00M	0.50M	0.60M	POLE TWISTED BY 45 DEGREES
8	4M	1	RAG/A (AHEAD)+	YES	-	-	YES	-	-	-	0.50M	0.60M	POLE TWISTED BY 45 DEGREES
9	4M	-	-	-	-	YES	-	-	YES	-	0.50M	0.60M	
10	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
11	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
12	4M	-	-	-	-	YES	-	-	YES	-	0.50M	0.60M	
13	4M	-	-	-	-	-	YES	YES	-	-	0.50M	0.60M	
14	4M	1	RAG+	YES	-	YES^	-	-	-	3.00M	0.50M	0.60M	POLE TWISTED BY 45 DEGREES
15	4M	1	RAG+	YES	-	YES^	-	YES	-	3.00M	0.50M	0.60M	POLE TWISTED BY 45 DEGREES
16	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
17	4M	-	-	-	-	YES	-	YES	-	-	0.50M	0.60M	
18	S	-	-	-	-	-	YES	-	-	-	0.50M	0.60M	
19	4M	-	-	-	-	-	YES	YES	-	-	0.50M	0.60M	
20	S	-	-	-	-	YES	-	-	-	-	0.50M	0.60M	
21	4M	1	RAG/A (RIGHT) AND NUT+	YES	-	YES	-	-	-	3.00M	0.50M	0.60M	NUT ROUNDEL TO RIGHT OF GREEN ARROW. POLE TWISTED BY 45 DEGREES
22	4M	1	RAG+	-	YES	-	YES	YES	-	-	0.50M	0.60M	NUT ROUNDEL TO RIGHT OF GREEN ARROW ON HEAD 2. POLE TWISTED BY 45 DEGREES
		2	RAG/A (RIGHT) AND NUT+	YES	-								
23	4M	1	RAG/A (LEFT)+	YES	-	YES^	-	YES	-	3.00M	0.50M	0.60M	PE ON THIS POLE. POLE TWISTED BY 45 DEGREES
24	4M	1	RAG/A (LEFT)+	YES	-	-	YES	-	-	-	0.50M	0.60M	POLE TWISTED BY 45 DEGREES

KEY:
A) PE = PHOTO ELECTRIC CELL;
B) 4M = 4M (NOMINAL) STRAIGHT POLE;
C) S = SHORT POLE FOR PUSHBUTTON;
D) NUT = NO-U-TURN ROUNDEL;
E) + = 2.3M CLEARANCE TO THE UNDERSIDE OF THE HEAD; AND
F) ^A = NARROW FIELD OF VIEW

CROSSING SCHEDULE					
CROSSING REF.	PHASE	TYPE	DESCRIPTION	WIDTH	NUMBER TACTILE PAVING BLOCKS
1	F	TOUCAN	ACROSS SPINE ROAD NORTHBOUND ENTRY	4.00m	10
2	G	TOUCAN	ACROSS SPINE ROAD SOUTHBOUND EXIT	4.00m	10
3	H	TOUCAN	ACROSS CROUDACE LINK ENTRY	4.00m	10
4	I	TOUCAN	ACROSS CROUDACE LINK EXIT	4.00m	10
5	J	TOUCAN	ACROSS SPINE ROAD SOUTHBOUND ENTRY	4.00m	10
6	K	TOUCAN	ACROSS SPINE ROAD NORTHBOUND EXIT	4.00m	10

NOTES:
1) TACTILE PAVING BLOCKS ARE 400mm X 400mm SQUARE AND COLOURED RED.



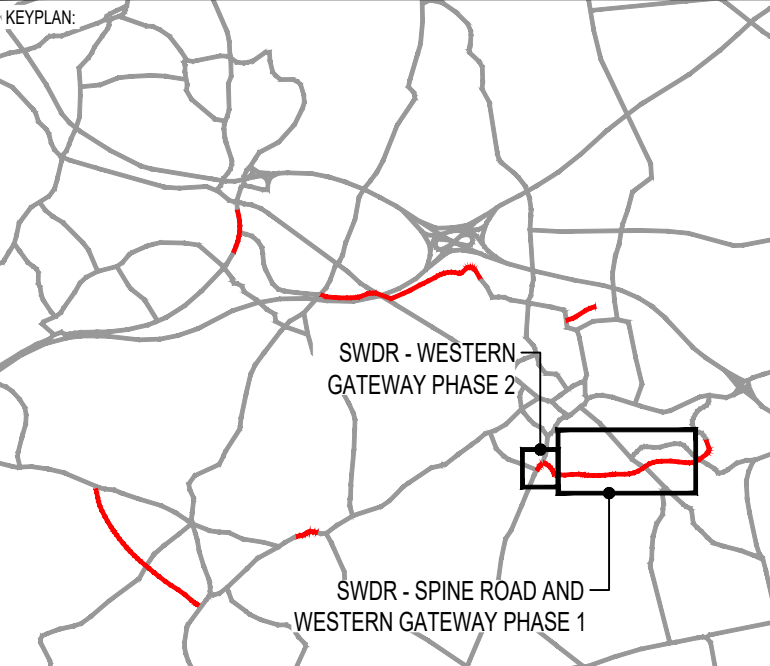
SCALE 1:200

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DO NOT SCALE

LEGEND

- PRIMARY RAG SIGNAL HEAD
- SECONDARY RAG SIGNAL HEAD SIGNAL
- SECONDARY RAG SIGNAL HEAD SIGNAL, SIDE MOUNTED
- SECONDARY RAG + G/A (RIGHT) SIGNAL HEAD
- PRIMARY RAG/A (LEFT) SIGNAL HEAD
- SECONDARY RAG/A (LEFT) SIGNAL HEAD
- PRIMARY RAG/A (RIGHT) SIGNAL HEAD
- SECONDARY RAG/A (RIGHT) SIGNAL HEAD
- PRIMARY RAG/A (AHEAD) SIGNAL HEAD
- NO-LEFT-TURN (NLT) ROUNDEL
- NO-LEFT-TURN (NLT) ROUNDEL
- EXCEPT BUSES (EB) ROUNDEL
- 4m POLE STRAIGHT
- SHORT POLE
- PHASE LETTER
- TRAFFIC SIGNAL POLE NUMBERING
- ON-CROSSING DETECTOR
- KERBSIDE DETECTOR
- NEARSIDE TOUCAN SIGNAL WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICES
- NEARSIDE NARROW FIELD OF VIEW TOUCAN SIGNAL WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICES
- NEARSIDE PEDESTRIAN SIGNAL WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICE
- NEARSIDE NARROW FIELD OF VIEW PEDESTRIAN SIGNAL WITH COMBINED PUSHBUTTON AND TACTILE DEVICE
- NEARSIDE PUSHBUTTON WITH AUDIBLE AND TACTILE DEVICE
- PHOTO ELECTRIC CELL
- STOPLINE LOOP AND REFERENCE
- QUEUE LOOP
- MOVA DIAMOND LOOP AND REFERENCE
- WCCTV 4G IR SPEED DOME CCTV CAMERA FIXED TO LIGHTING COLUMN
- LIGHTING COLUMN AND REFERENCE
- MAINTENANCE VEHICLE PARKING BAY
- TRAFFIC SIGNAL CONTROLLER ON NAL BASE
- POWER PILLAR



REV	DATE	BY	DESCRIPTION	CHK	APP
P02	01/04/2022	PR	UPDATED BASED ON COMMENTS	IR	IR
P01	20/08/2021	PR	DETAILED DESIGN ISSUE	IR	IR

DRAWING STATUS: SUITABLE FOR EXAMINATION S8

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PROJECT: WOKINGHAM MAJOR HIGHWAYS PROGRAMME
SPINE ROAD AND WESTERN GATEWAY PHASE 1

TITLE: HIGHWAYS
CROUDACE LINK JUNCTION
SIGNAL LAYOUT

SHEET 1

SCALE @ A1: 1:200
CHECKED: IR
APPROVED: IR

PROJECT NO: C118047
DESIGNED: PR
DRAWN: BPH
DATE: August 21

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REV: P02