

TRAFFIC SIGNAL NOTES

- THE SITE IS A NEW ELV NEARSIDE TOUCAN CROSSING RUNNING VA WITH REMOTE MONITORING. ON-CROSSING DETECTION IS UTILISED BUT KERBSIDE DETECTION IS NOT.
- NEARSIDE TOUCAN SIGNALS AND PUSHBUTTONS WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICES ARE UTILISED AUDIBLE DEVICES SHALL BE TIMETABLED NOT TO OPERATE OVERNIGHT.
- ALL TRAFFIC SIGNAL HEADS SHALL BE INSTALLED WITH 2.3m CLEARANCE TO THE UNDERSIDE.
- ALL SECONDARY HEADS SHALL BE FITTED WITH PRIMARY HOODS.
- ON-CROSSING DETECTORS SHALL BE AG0326 OR AGREED EQUIVALENT. WHERE NECESSARY PEDESTRIAN 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; AND
 - ALL POLES TO HAVE POLE NUMBERS WHICH SHALL BE FIXED BEFORE THE SITE ACCEPTANCE TESTING (SAT).
- POLES:
 - 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; AND
 - SHORT POLES (1.8m) SHALL HAVE WELDED POLE CAPS AND SHALL NOT HAVE CABLE ENTRY SLOTS.
- ALL POLES SHALL BE INSTALLED TWISTED BY 45 DEGREES TO CORRECT CLEARANCE OF SIGNAL HEADS FROM EDGE OF CARRIAGEWAY.
- EACH POLE SHALL BE SEPARATELY CABLED FROM THE CONTROLLER.
- 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 REQUIREMENTS. A STRATOS 4G AERIAL SHALL BE FIXED TO THE OUTSIDE OF THE CONTROLLER CASE AND BLACK IN COLOUR. SIM CARDS SHALL BE FREE ISSUED BY THE LOCAL AUTHORITY.
- THE LOCATION OF THE CONTROLLER, POWER PILLAR AND ALL POLES AND 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.

SIGNIFICANT RESIDUAL HAZARDS

RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
 STRIKING UNDERGROUND SERVICES	C	HAND DIGGING AND CAT SCANNING TECHNIQUES SHALL BE UNDERTAKEN TO LOCATE SERVICES/UTILITIES. MARK UP ON SITE IF REQUIRED. NO WORKS TO BE UNDERTAKEN WITHOUT A VALID PERMIT TO DIG. DIVERTED SERVICES TO BE ACCURATELY RECORDED FOR FUTURE WORKS INCLUDING DECOMMISSIONED PLANT.
 WORKING IN CLOSE PROXIMITY TO WATERCOURSES. EXPOSURE TO HAZARDOUS SUBSTANCES, E.G. LEPTOSPIROSIS.	C, D	CONTRACTOR TO LIAISE WITH THE LEAD LOCAL FLOOD AUTHORITY TO GAIN FLOOD ALERTS. ENSURE WORKFORCE IS SUITABLY TRAINED AND COMPETENT AND ARE WEARING THE APPROPRIATE LEVEL OF PPE FOR THE INTENDED TASK TO REDUCE THE RISK OF WORKERS CONTRACTING LEPTOSPIROSIS OR WEIL'S DISEASE.
 DANGER OF FALLING FROM WORKING ON HIGH EMBANKMENTS	C, D, M	ENSURE APPROPRIATE RISK ASSESSMENTS ARE USED WHEN WORKING ON TOP OF EMBANKMENTS, WHICH CONSIDER THE GRADIENT OF THE ADJOINING SLOPE AND IDENTIFY APPROPRIATE CONTROLS TO PREVENT OPERATIVES, PLANT AND MATERIALS FROM ENCOUNTERING THE SLOPE.

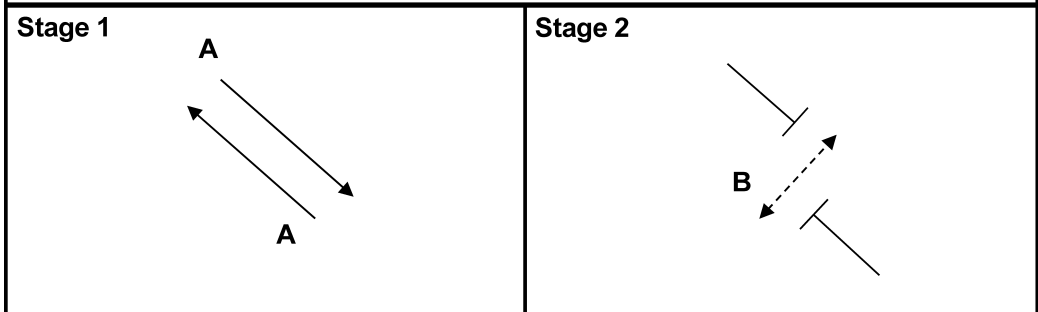
NOTE: The above hazards do not include every hazard or assumption, but identify significant residual construction hazards that are not likely to be obvious to a competent contractor and those that could be difficult to manage effectively. Refer also to the designer's risk documentation.

POLE SCHEDULE

POLE REF	POLE TYPE	TRAFFIC SIGNAL HEADS			TOUCAN EQUIPMENT		DETECTION		SETTING OUT			COMMENTS
		HEAD REFERENCE	HEAD TYPE	PRIMARY HEAD + PRIMARY HOOD	NEARSIDE TOUCAN SIGNAL	NEARSIDE PUSHBUTTON	ON-CROSSING DETECTOR	MVD	CLEARANCE STOPLINE TO STUDS	CLEARANCE POLE FROM STUDS	CLEARANCE POLE FROM KERB FACE	
1	S	-	-	-	-	YES	-	-	-	0.50m	0.60m	
2	4m	1	RAG+	YES	YES	-	YES	YES	3.00m	0.50m	0.60m	
		2	RAG+	YES	-	-	-	-	-	-	-	
3	S	-	-	-	-	YES	-	-	-	0.50m	0.60m	
4	4m	1	RAG+	YES	YES	-	YES	YES	3.00m	0.50m	0.60m	PE ON THIS POLE
		2	RAG+	YES	-	-	-	-	-	-	-	

KEY:
A) PE = PHOTO ELECTRIC CELL;
B) 4m = 4m (NOMINAL) STRAIGHT POLE;
C) S = SHORT POLE FOR PUSHBUTTON (1.8M); AND
D) + = 2.3m CLEARANCE TO THE UNDERSIDE OF THE HEAD.

STAGING



TIMINGS

PERIOD	PEDESTRIAN	TRAFFIC	TIME (SECONDS)
1	RED	GREEN	MAX 30, MIN 7
2	RED	AMBER	3
3	RED	RED	1 GAP, 3 MAX
4	GREEN	RED	6
5	RED	RED	3
6	RED	RED	8
7	RED	RED + AMBER	2

CROSSING SCHEDULE

CROSSING REF.	PHASE	TYPE	DESCRIPTION	WIDTH	NUMBER TACTILE PAVING BLOCKS
1	B	TOUCAN	SPINE ROAD	4.00m	10

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

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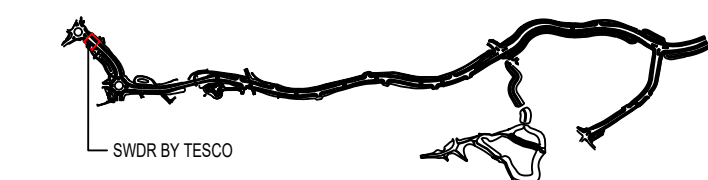
DO NOT SCALE

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
 - THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 - FOR DETAILS OF PSV SURFACING REFER TO 700 SERIES.
 - FOR DETAIL OF KERBS, FOOTWAYS AND PAVED AREAS REFER TO 1100 SERIES.
 - DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS WMHP-TG-SRWG1-DR-HI-1201 TO 1208 WMHP-TG-SRWG1-DR-HI-1221 AND SPECIFICATIONS WMHP-TG-SRWG1-SP-HI-1201 AND 1205

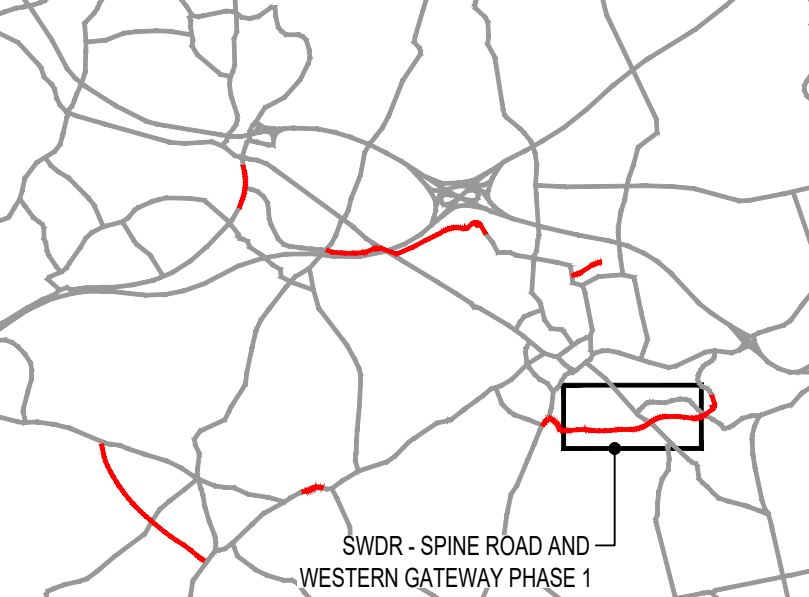
LEGEND

- PRIMARY RAG SIGNAL HEAD
- 4m POLE STRAIGHT
- SHORT POLE
- TRAFFIC SIGNAL POLE NUMBERING
- MVD (STANDARD BEAM)
- ON-CROSSING DETECTOR
- NEARSIDE TOUCAN SIGNAL WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICES
- NEARSIDE PUSHBUTTON WITH AUDIBLE AND TACTILE DEVICES
- PHOTO ELECTRIC CELL
- MAINTENANCE VEHICLE PARKING
- TRAFFIC SIGNAL CONTROLLER ON NAL BASE
- POWER PILLAR
- NMU CROSSING VISIBILITY IN ACCORDANCE WITH WOKINGHAM BOROUGH COUNCIL CYCLING INFRASTRUCTURE STYLE GUIDE WITH MINIMUM X VALUE OF 2.5m AND Y VALUE OF 43m IN ACCORDANCE WITH MFS SSD REQUIREMENTS
- VISIBILITY TO SIGNAL HEADS IN ACCORDANCE WITH CD123 OF 43m SSD ACCORDING TO MFS VEHICLE SSD REQUIREMENTS.

LOCATION PLAN:



KEYPLAN:



PO4	19/01/2024	JB	ROUNDABOUT VE UPDATE	DJF	JC
PO3	02/06/2022	NZM	MATTERS OUTSTANDING WMHP-TG-SRWG1-RD-DM-0010	BH	JC
PO2	25/03/2022	ANT	REVISED FOLLOWING SCD COMMENTS	JPG	JC
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SUITABLE FOR REVIEW & COMMENT** **S3**

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

TITLE: **HIGHWAYS**
SWDR BY TESCO TOUCAN
SIGNAL LAYOUT **SHEET 1**

SCALE @ A1: 1:200	CHECKED: IR	APPROVED: IR
PROJECT NO: C118047	DESIGNED: PR	DRAWN: BPH
DRAWING NO: WMHP-TG-SRWG1-DR-HI-1233	DATE: July 21	REV: P04