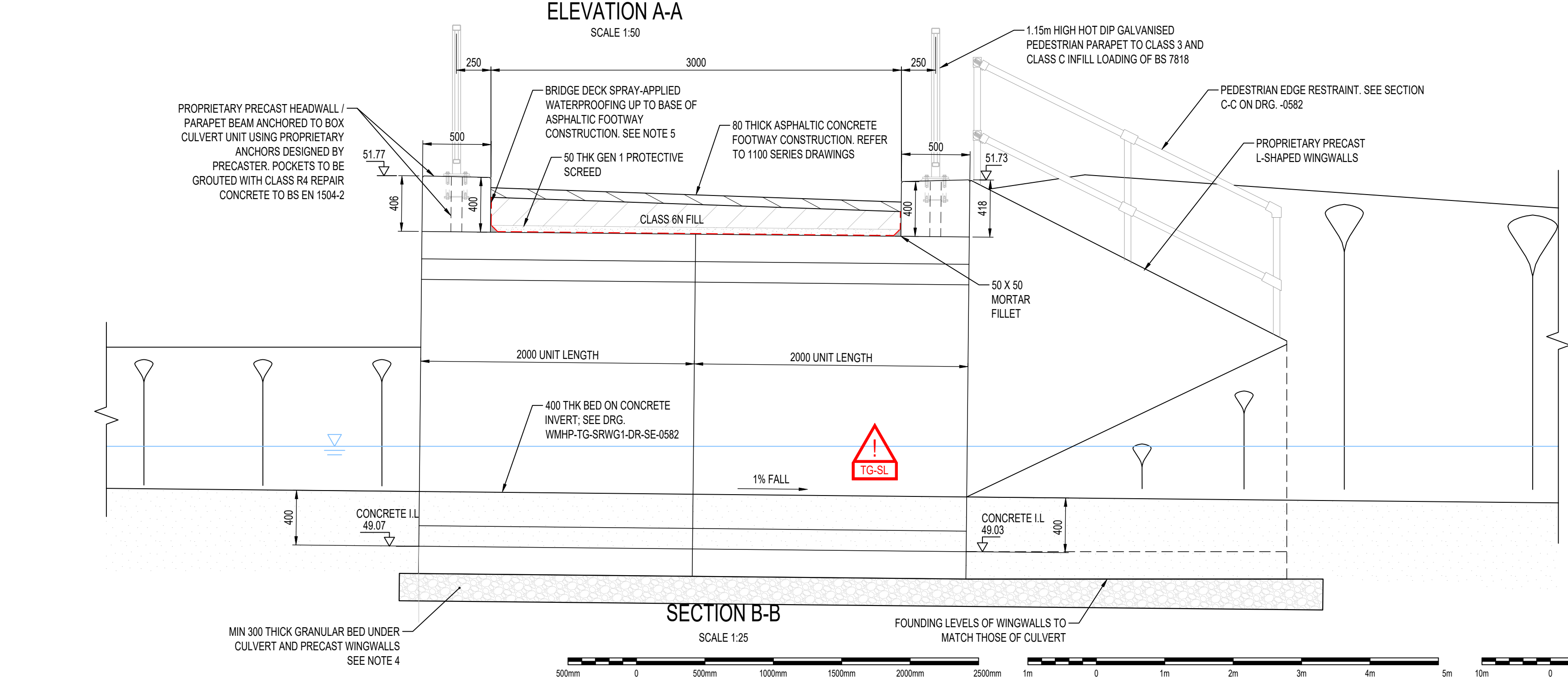
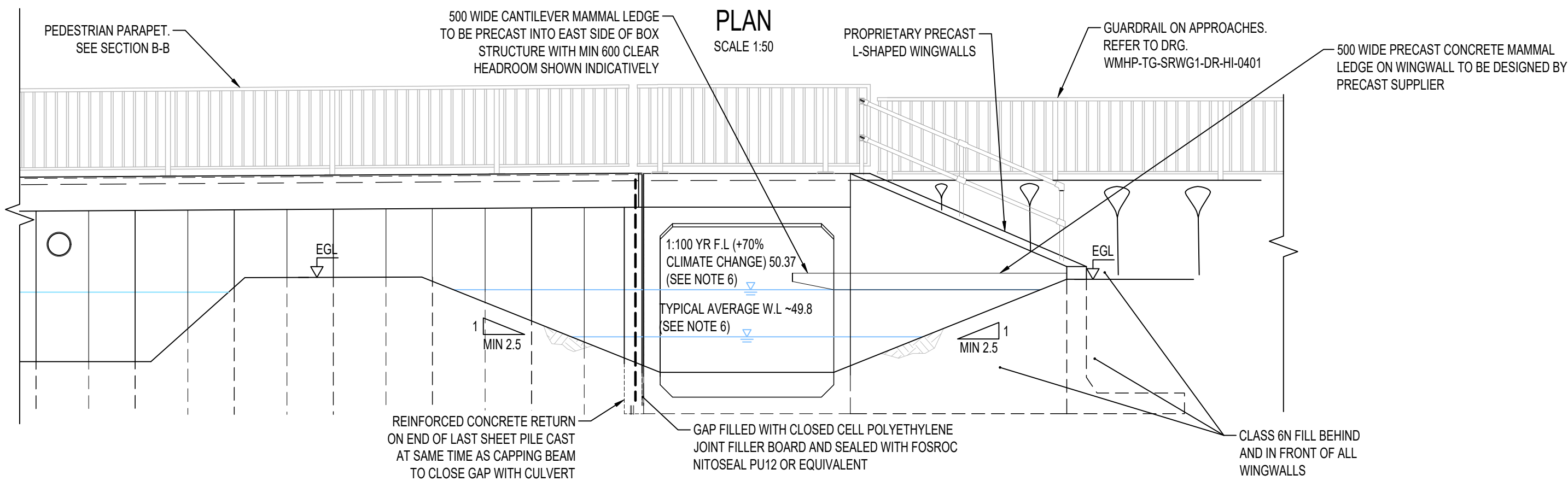
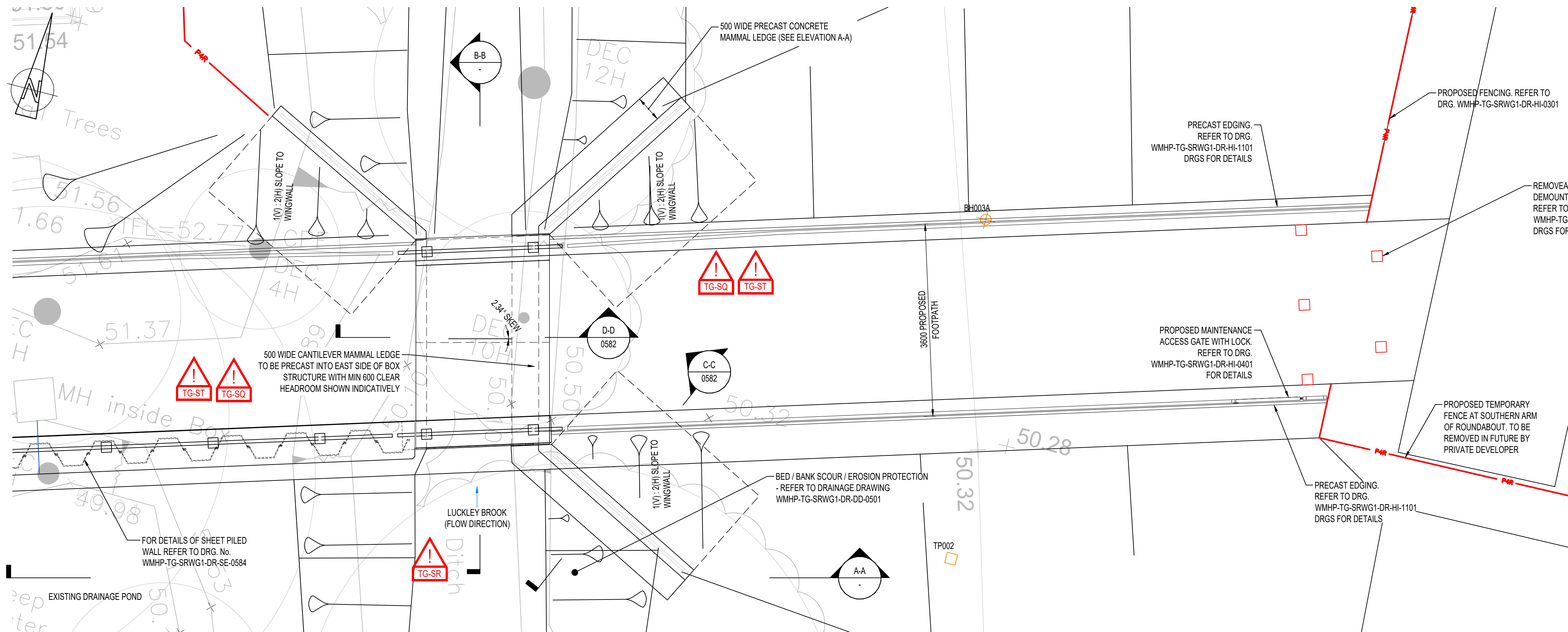
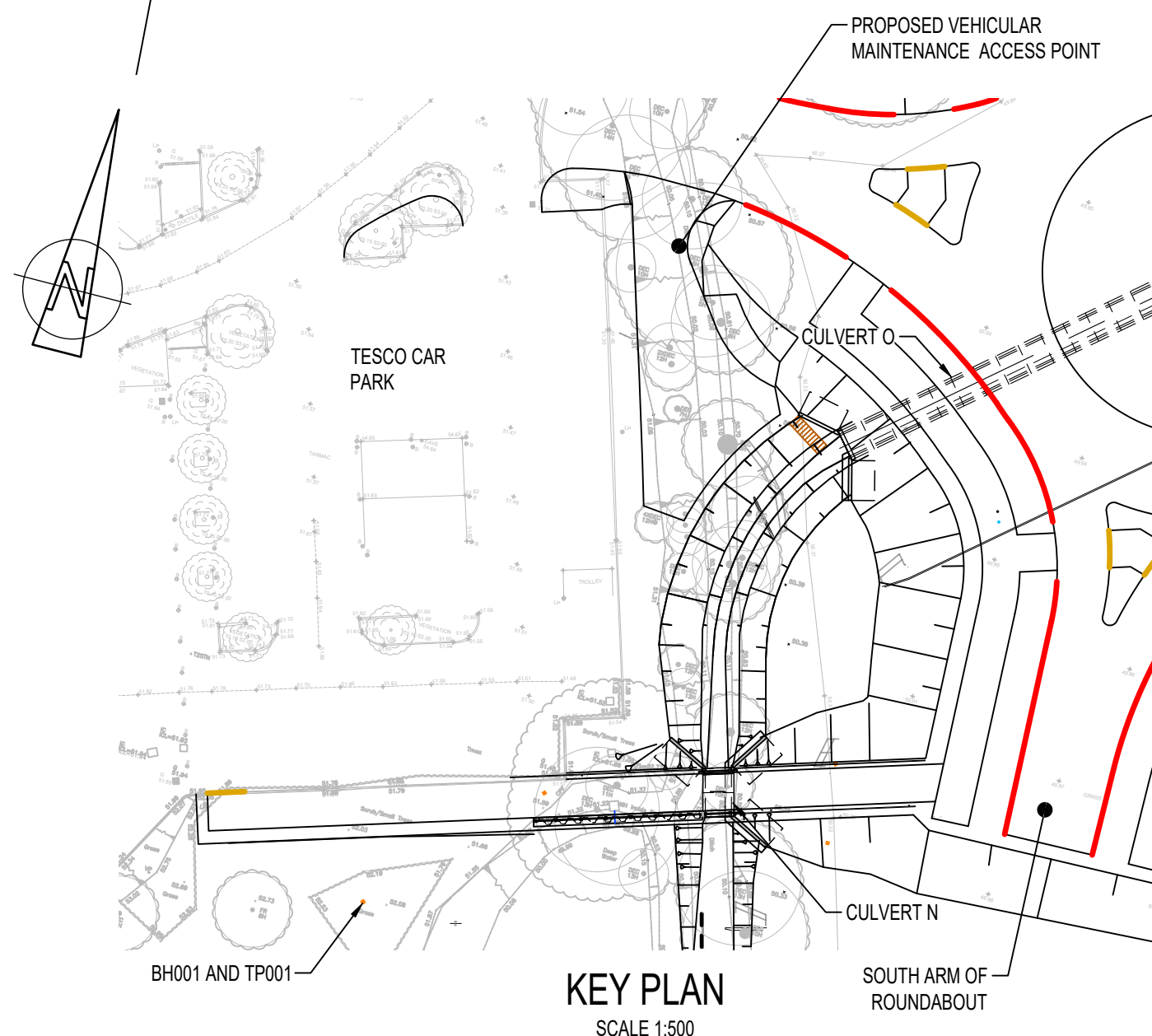


File name: P:\B1\DATA\PROJECTS\2018\1847\B1\01-WP\DRAWINGS\WMHP-TG-SRWG1-DR-SE-0581.DWG, printed on 18 June 2025 15:56:43, by K1



- NOTES CONTINUED:
- EXISTING BACKGROUND INFORMATION TAKEN FROM SURVEY FILE "XTOPOSURVEY" BY MURPHY SURVEYS, COMMISSIONED BY WSP. CULVERT UNITS TO BE CE-MARKED (OR UNCA WHEN IN FORCE) TO BS EN 14844 WITH SPIGOT AND SOCKET JOINING BETWEEN UNITS. PRECAST WINGWALL UNITS TO BE CE-MARKED TO BS EN 15258. UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DESIGN SHALL BE IN ACCORDANCE WITH THIS DRAWING. DRAWINGS WMHP-TG-SRWG1-DR-SE-0582, -0584, -0585, -0589 AND THE AIP WMHP-TG-SRWG1-RP-SE-0581. REFER TO DRG. -SE-0589 FOR STANDARD DETAILS AND DD-0534 FOR LOCATION PLAN.
 - FORMATION LEVEL TO BE INSPECTED AND ANY SOFT AREAS (WHERE UNDRAINED SHEAR STRENGTH $C_u < 30$ kPa) TESTED IN ACCORDANCE WITH EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601 WITH HAND SHEAR VANE TESTING. SOFT AREAS TO BE DUG AND REPLACED WITH MIN 300 THK CLASS 6A SELF-COMPACTING GRANULAR FILL WHERE WORKING IN GROUND WATER, OTHERWISE CLASS 6N GRANULAR FILL TO EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601. GENERALLY, THIS IS TO BE OVERLAIN BY 300 THK CLASS 6N BEDDING UNDERNEATH CULVERT AND WINGWALLS.
 - SPRAY-APPLIED WATERPROOFING TO COMPLY WITH APPENDIX 20/1 (WMHP-TG-WOFTR-SP-SE-2000). WATERPROOFING TERMINATION DETAIL TO BE IN ACCORDANCE WITH SUPPLIER'S INSTRUCTIONS. TERMINATION AT TAPED EDGE ASSUMED. FORMED MOULD FINISHES. RECEIVING SPRAY-APPLIED WATERPROOFING SHALL BE PREPARED TO ENSURE NO LAITANCE OR COARSE AGGREGATE IS EXPOSED. DAMAGED AREAS, VOIDS AND BLOW HOLES SHALL BE REPAIRED WITH SUITABLE PROPRIETARY REPAIR CONCRETE SUCH AS GCP METASET CONCRETE REPAIR SYSTEMS OR OTHER PROPRIETARY PRODUCT TO BS EN 1504-3 COMPATIBLE WITH GCP ELIMINATOR WATERPROOFING TO BE CONFIRMED WITH GCP APPLIED TECHNOLOGIES. FINAL SURFACES SHALL BE INSPECTED AND APPROVED BY THE WATERPROOFING AUTHORISED CONTRACTOR (FOR GCP ELIMINATOR) TO ENSURE PREPARATORY WORK IS SATISFACTORY AND THE FINISHED SUBSTRATE MEETS THE REQUIRED STANDARD PRIOR TO WATERPROOFING APPLICATION.
 - TYPICAL WATER LEVEL TAKEN FROM CHANNEL SURVEY CARRIED OUT BY MURPHY SURVEYS ON 05/04/2015, DRG. REF. 11868, REACH B, WORKINGHAM, XS_2 DATED 17/04/15, COMMISSIONED BY WSP. 1 IN 100 YEAR FLOOD LEVEL BASED ON FLOOD MODELLING BY WSP SHOWN ON DRG. 66439-CUL-001 REV A, DATED 30/09/20.
 - EXISTING UTILITIES INFORMATION TAKEN FROM WSP DRAWING WMHP-WSP-SR-DR-UT-0001 BASED ON C2 SEARCH INFORMATION SUGGESTS THERE ARE NO EXISTING UTILITIES IN THIS AREA. THE CONTRACTOR SHALL UNDERTAKE FURTHER SURVEYS, SCANS AND TRIAL HOLES TO CONFIRM AND LOCATE UTILITIES PRIOR TO CONSTRUCTION. SEE HAZARD TG-SQ.

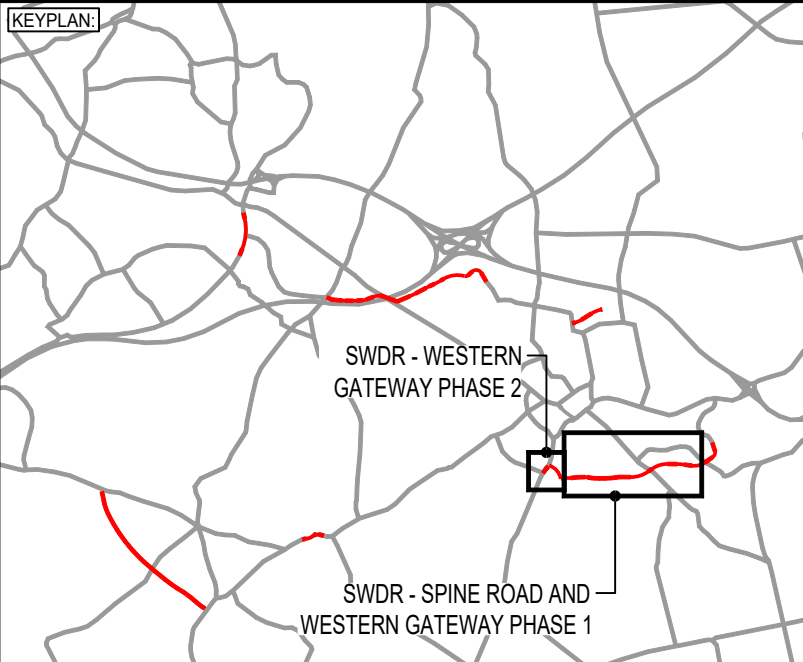


SIGNIFICANT RESIDUAL HAZARDS		
RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
ACCESS INSIDE BOX CULVERTS - WORKING IN / AROUND WATER	M	REMOTE METHODS OF INSPECTION TO BE USED AS FIRST METHOD. ENTRY TO ONLY OCCUR WHERE ABSOLUTELY NECESSARY. WATER ISOLATION METHODS (E.G. TEMPORARY DAM) TO BE CONSIDERED IN CONJUNCTION WITH LOW FLOW WARM, DRY WEATHER CONDITIONS, WITH EMERGENCY RESCUE PLAN READY TO BE IMPLEMENTED.
POSSIBLE PRESENCE OF BURIED SERVICES	C/D	C2 SEARCH RESULTS HAVE INDICATED NO SERVICES. HOWEVER, CONTRACTOR TO CONFIRM VIA LATEST STATUTORY UNDERTAKERS' SEARCHES AND SCAN AREA PRIOR TO CONSTRUCTION. SEE NOTE 7
WORKING ADJACENT TO STREAM AND POTENTIALLY IN GROUNDWATER / FLOOD RISK	C/M/D	SUGGEST TEMPORARY DIVERSION OF EXISTING STREAM WITH TEMPORARY PUMP OR OTHER GROUNDWATER MANAGEMENT METHODS. CONTRACTOR TO MONITOR FORECASTS AND REGISTER FOR EA FLOOD ALERTS TO MANAGE RISK OF FLOODING
UNEXPLODED ORDNANCE	C/D	"LOW RISK" CATEGORY IDENTIFIED BY "1ST LINE DEFENCE" DESK STUDY RA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS

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.

DO NOT SCALE

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
 - CULVERT UNITS TO BE CE-MARKED (OR UNCA WHEN IN FORCE) TO BS EN 14844 WITH SPIGOT AND SOCKET JOINING BETWEEN UNITS. PRECAST WINGWALL UNITS TO BE CE-MARKED TO BS EN 15258. UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DESIGN SHALL BE IN ACCORDANCE WITH THIS DRAWING. DRAWINGS WMHP-TG-SRWG1-DR-SE-0582, -0584, -0585, -0589 AND THE AIP WMHP-TG-SRWG1-RP-SE-0581. REFER TO DRG. -SE-0589 FOR STANDARD DETAILS AND DD-0534 FOR LOCATION PLAN.
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P07	13/06/2025	NL	UPDATED TO ADDRESS PLANNING COMMENTS	WA	KL
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SUITABLE FOR APPROVAL** **S5**

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PROJECT: **SPINE ROAD AND WESTERN GATEWAY PHASE 1**

TITLE: **CULVERT N - LUCKLEY BROOK
STRUCTURE REFERENCE: 3104
GENERAL ARRANGEMENT**

SCALE @ A1: **AS SHOWN** CHECKED: **KL** APPROVED: **CMF**
PROJECT NO: **C118047** DESIGNED: **WA** DRAWN: **TCH** DATE: **February 21**
DRAWING No: **WMHP-TG-SRWG1-DR-SE-0581** REV: **P07**