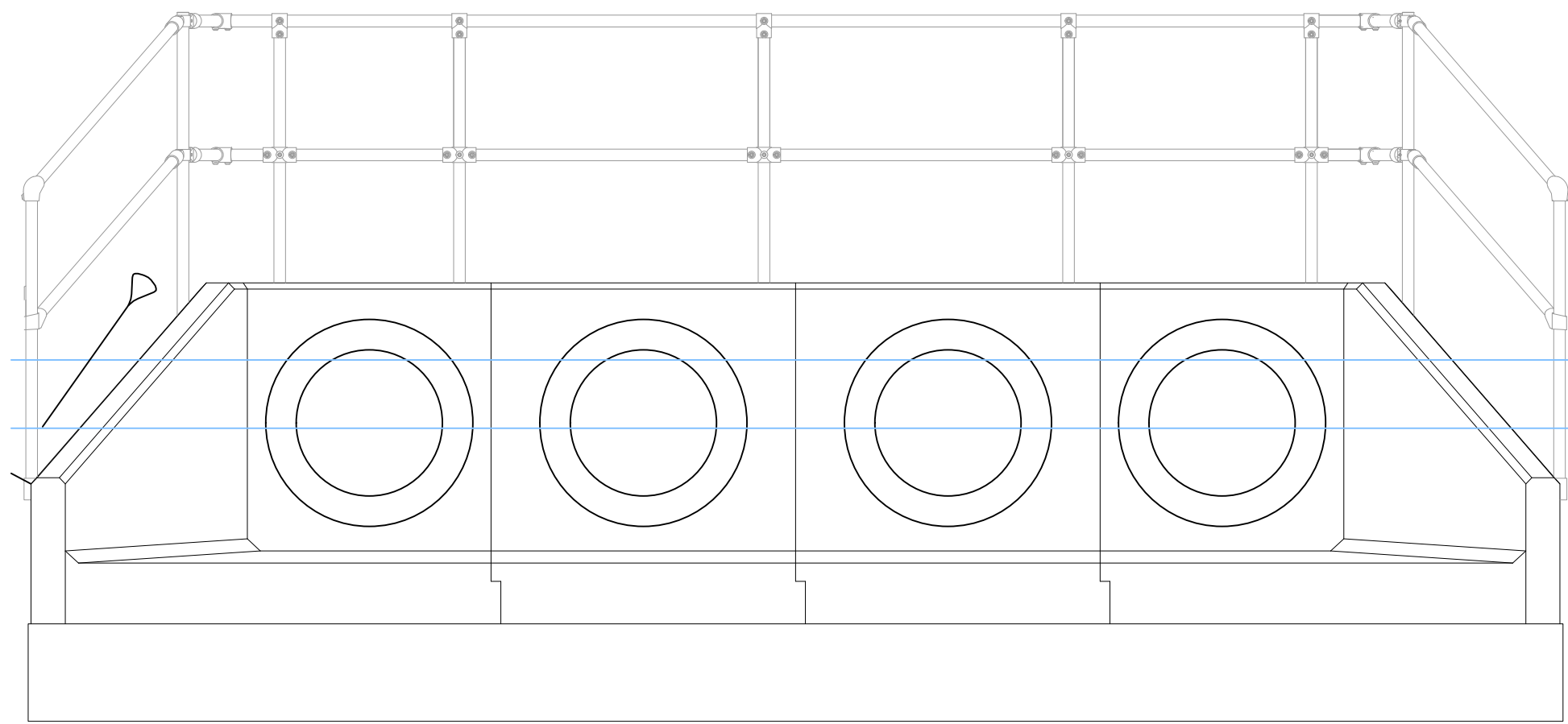
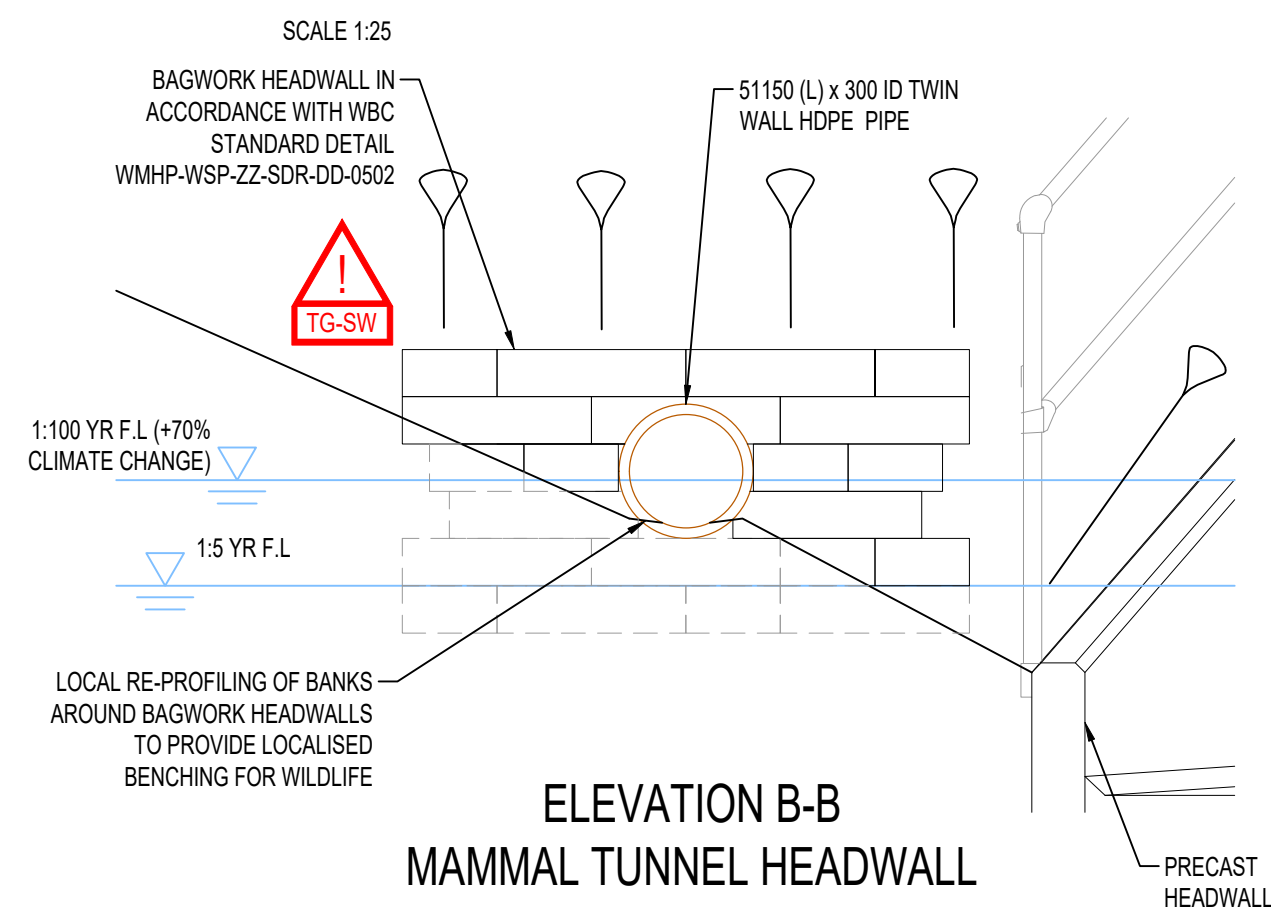


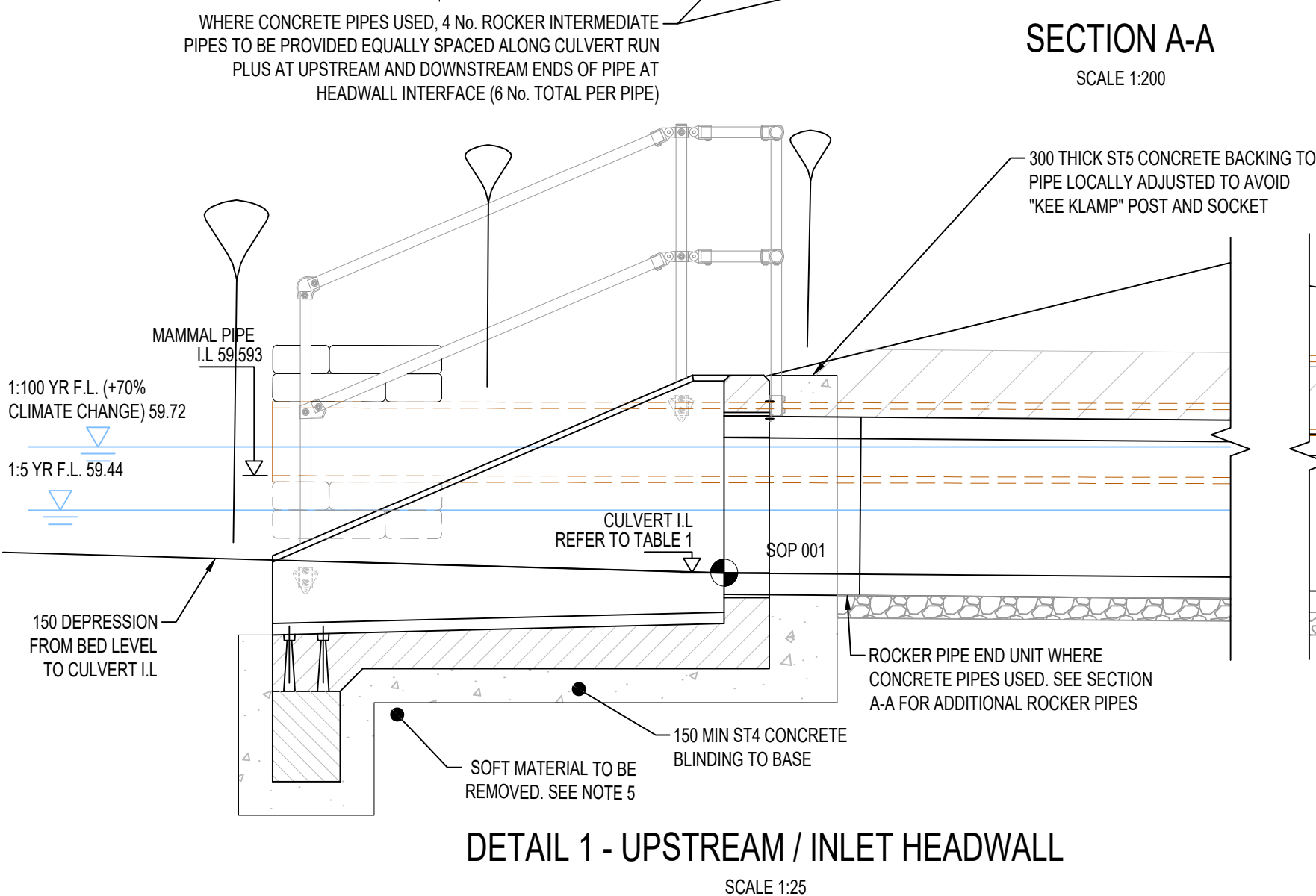


SETTING OUT COORDINATES			
SOP_NO.	EASTING	NORTHING	INVERT LEVEL
SOP 001	482825.008	167823.318	59.161
SOP 002	482811.481	167869.996	58.764

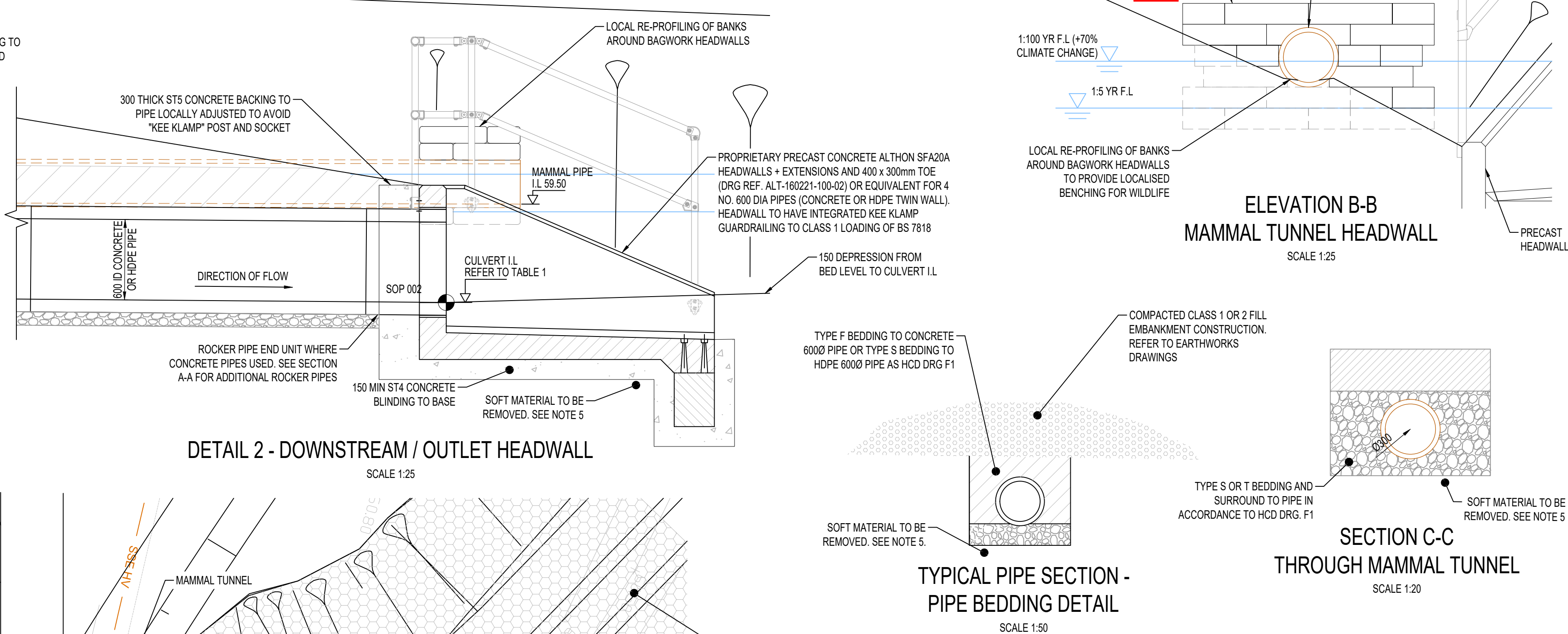
TABLE 1



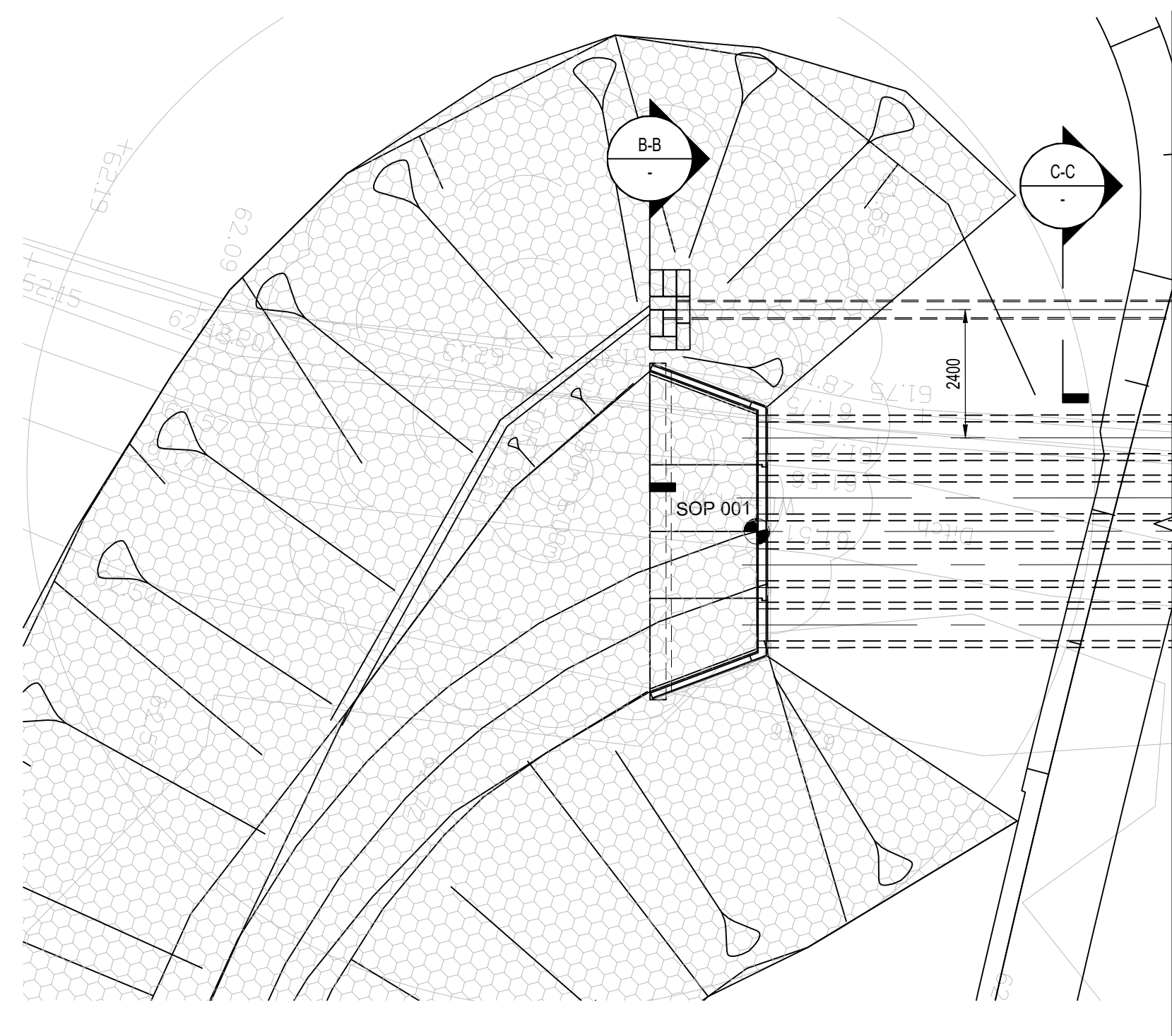
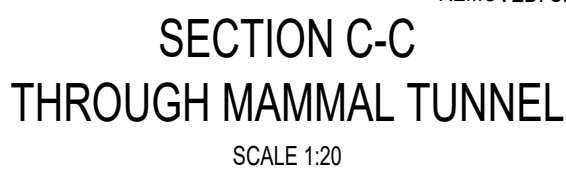
ELEVATION B-B
MAMMAL TUNNEL HEADWALL



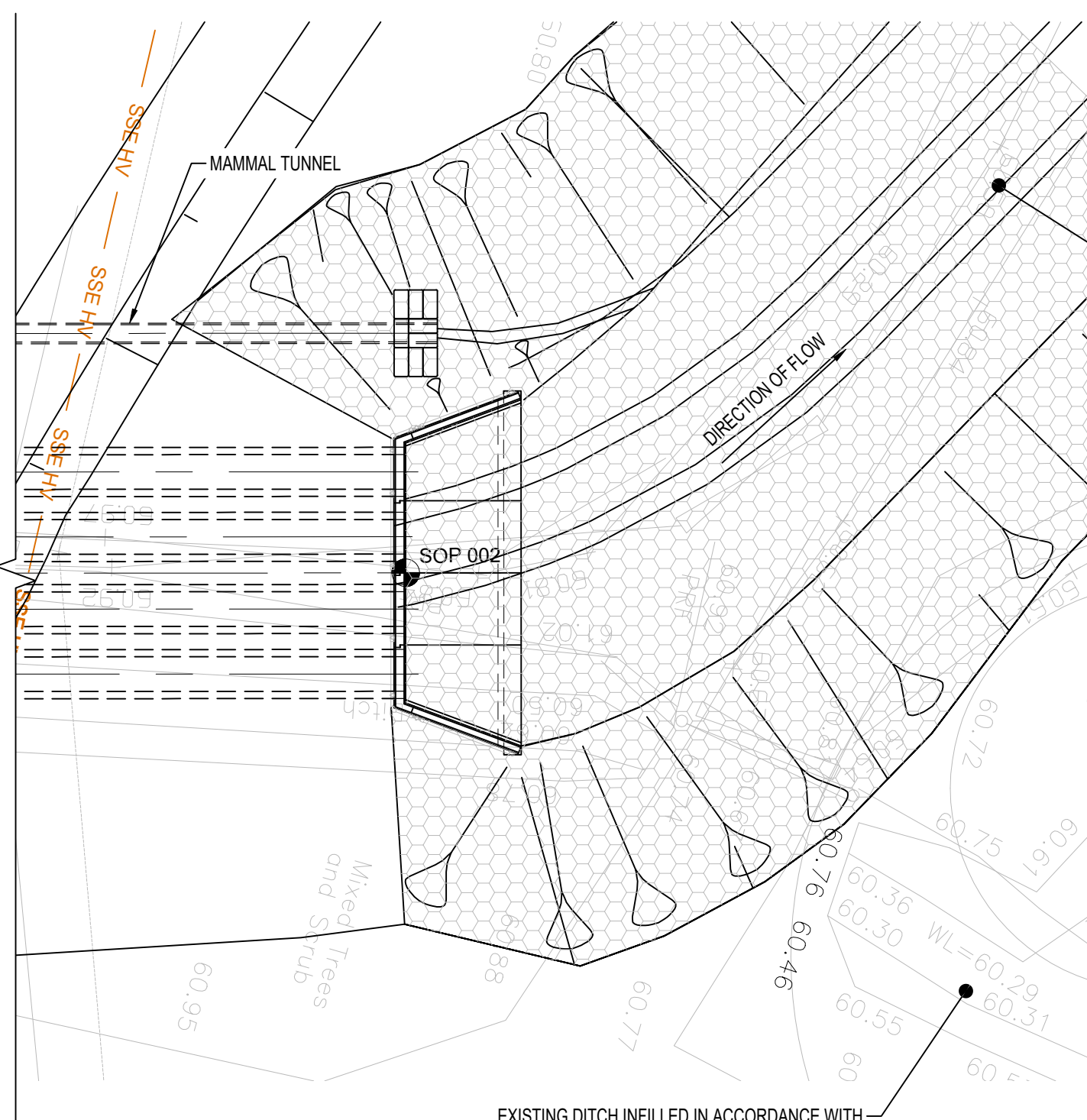
DETAIL 1 - UPSTREAM / INLET HEADWALL



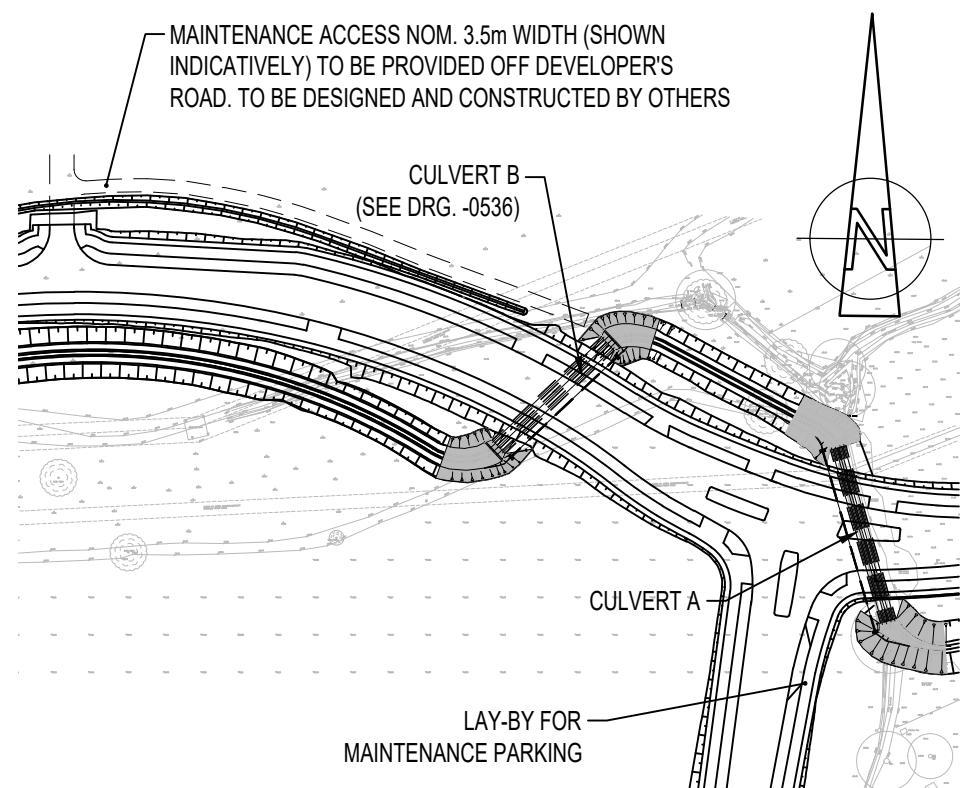
TYPICAL PIPE SECTION - PIPE BEDDING DETAIL



PLAN OF INLET AND OUTLET



EXISTING DITCH INFILLED IN ACCORDANCE WITH
EARTHWORKS SPECIFICATION
WMHP-TG-SRWG1-SP-GE-0601



KEY PLAN
SCALE 1:2000

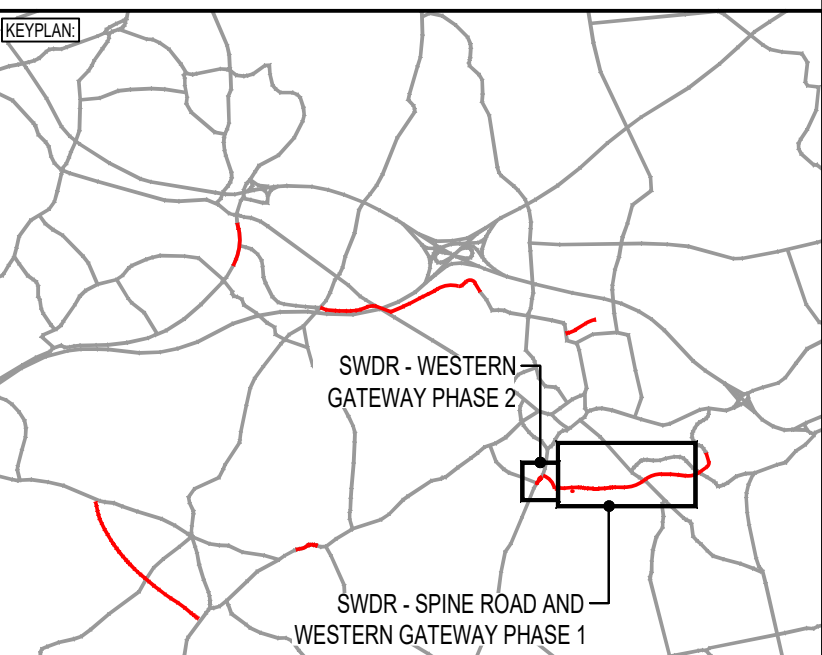
SIGNIFICANT RESIDUAL HAZARDS		
RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
WORKING IN WATER/ GROUNDWATER	CMD	CONTRACTOR TO USE SUITABLE MEANS TO MANAGE GROUNDWATER BY PUMPING OR CUT-OFF (E.G. GROUTING) METHODS.
UNEXPLODED ORDNANCE	C	"LOW RISK" CATEGORY IDENTIFIED BY "1ST LINE DEFENCE" DESK STUDY RA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS
POSSIBLE PRESENCE OF BURIED SERVICES	C/D	SEARCH RESULTS HAVE INDICATED NO SERVICES IN CULVERT LOCATION (SEE NOTE 7). HOWEVER, CONTRACTOR TO CONFIRM VIA LATEST STATUTORY UNDERTAKERS' SEARCHES AND SCAN AREA PRIOR TO CONSTRUCTION
PRESENCE OF OVERHEAD POWERLINES	C/D	IT IS RECOMMENDED THAT OVERHEAD 33KV POWERLINES ARE DIVERTED PRIOR TO THE COMMENCEMENT OF THE WORKS. OTHERWISE CONTRACTOR TO ENSURE LOCATION OF OVERHEAD CABLES AND ELECTRICITY PYLON/ POLE(S) ARE DEMARCATED WITH SUITABLE WARNING POST SYSTEMS OR SIMILAR AND ALL SITE OPERATIVES TO BE BRIEFED TO FOLLOW A SAFE SYSTEM OF WORK
STRIKING OF SERVICES WHILST INSTALLING BAGWORK PINS	C	LOCATION OF BAGWORK HEADWALLS TO BE SCANNED FOR SERVICES PRIOR TO INSTALLATION OF BAGWORK ANCHOR PINS

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:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
3. CONCRETE PIPES TO BE CE-MARKED TO BS EN 1916. PIPES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. PRECAST HEADWALLS TO BE DESIGNED BY PRECASTER BASED ON BS EN 1992-1-1 AND SHALL BE IN ACCORDANCE WITH BS EN13369.
5. 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 SHAKE VANE TESTING. SOFT AREAS TO BE DUG AND REPLACED WITH MIN 300 TONN CLASS 6A SELF-COMPACTING GRANULAR FILL WHERE WORKING IN GROUND WATER, OTHERWISE CLASS 1 GRANULAR FILL TO EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601 GENERALLY.
6. 1 IN 100 YEAR FLOOD LEVEL BASED ON FLOOD MODELLING BY WSP SHOWN ON DRG. 66439-CUL-001 REV A, DATED 30/09/20.
7. EXISTING UTILITIES INFORMATION TAKEN FROM WSP DRAINING WMHP-WISP-SR-UT-0001 BASED ON C2 SEARCH INFORMATION. THE CONTRACTOR SHALL UNDERTAKE FURTHER SURVEYS, SCANS AND TRIAL HOLES TO CONFIRM AND LOCATE UTILITIES PRIOR TO CONSTRUCTION. SEE RESIDUAL HAZARDS TG-SQ AND TG-HB.
8. EXISTING BACKGROUND INFORMATION TAKEN FROM SURVEY FILE "XTOPOSURVEY" BY MURPHY SURVEYS, COMMISSIONED BY WSP, SUPPLIED BY WBC, FILE "XTOPO_ALL" SUPPLIED BY WSP, FILE "S219930-02A-Spine Road and Western Gateway_3D_Topo_FINAL" BY TECHNICS, COMMISSIONED BY BB. CONTRACTOR TO VERIFY SURVEY ACCURACY PRIOR TO CONSTRUCTION.
9. REFER TO DRG. WMHP-TG-SRWG1-1-DR-D2-0534 FOR LOCATION PLAN



P02	09/08/2021	BPH	DETAILED DESIGN	KL	JC
P01	30/06/2021	BPH	FIRST ISSUE	WA	CMF
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:

SUITABLE FOR REVIEW & COMMENT

S3

DESIGNER



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CONTRACTOR



CLIENT:



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BOROUGH COUNCIL

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PROJECT:

WOKINGHAM MAJOR HIGHWAYS PROGRAMME
SPINE ROAD AND WESTERN GATEWAY PHASE 1

TITLE:

PIPE CULVERT A -
UPPER EMM BROOK TRIBUTARY
DITCH DIVERSION

SCALE @ A1: N/A	CHECKED: KL	APPROVED: CMF
PROJECT NO: C118047	DESIGNED: WA	DRAWN: BPH
		DATE: April 21

WMHP-TG-SRWG1-DR-DD-0535

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