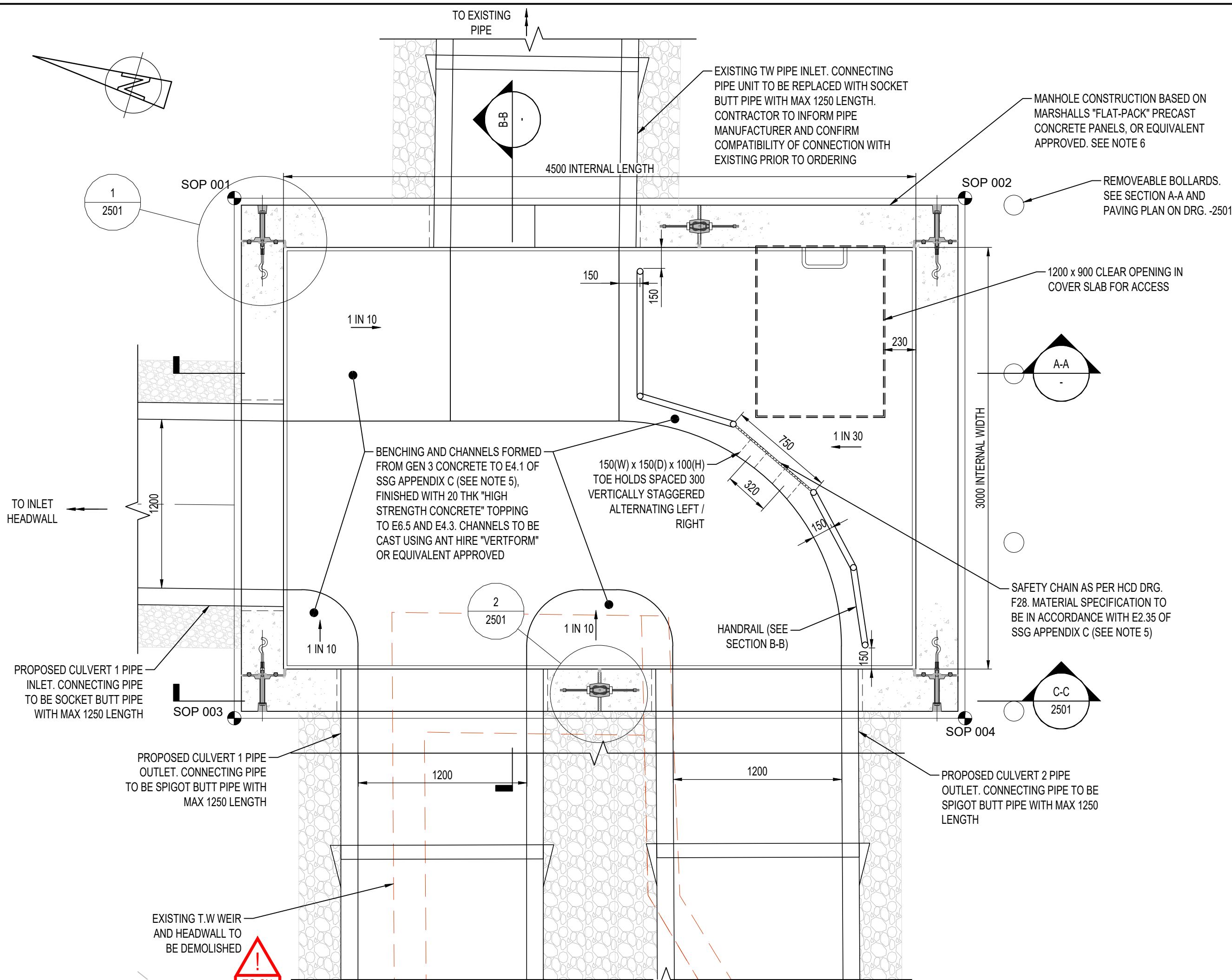
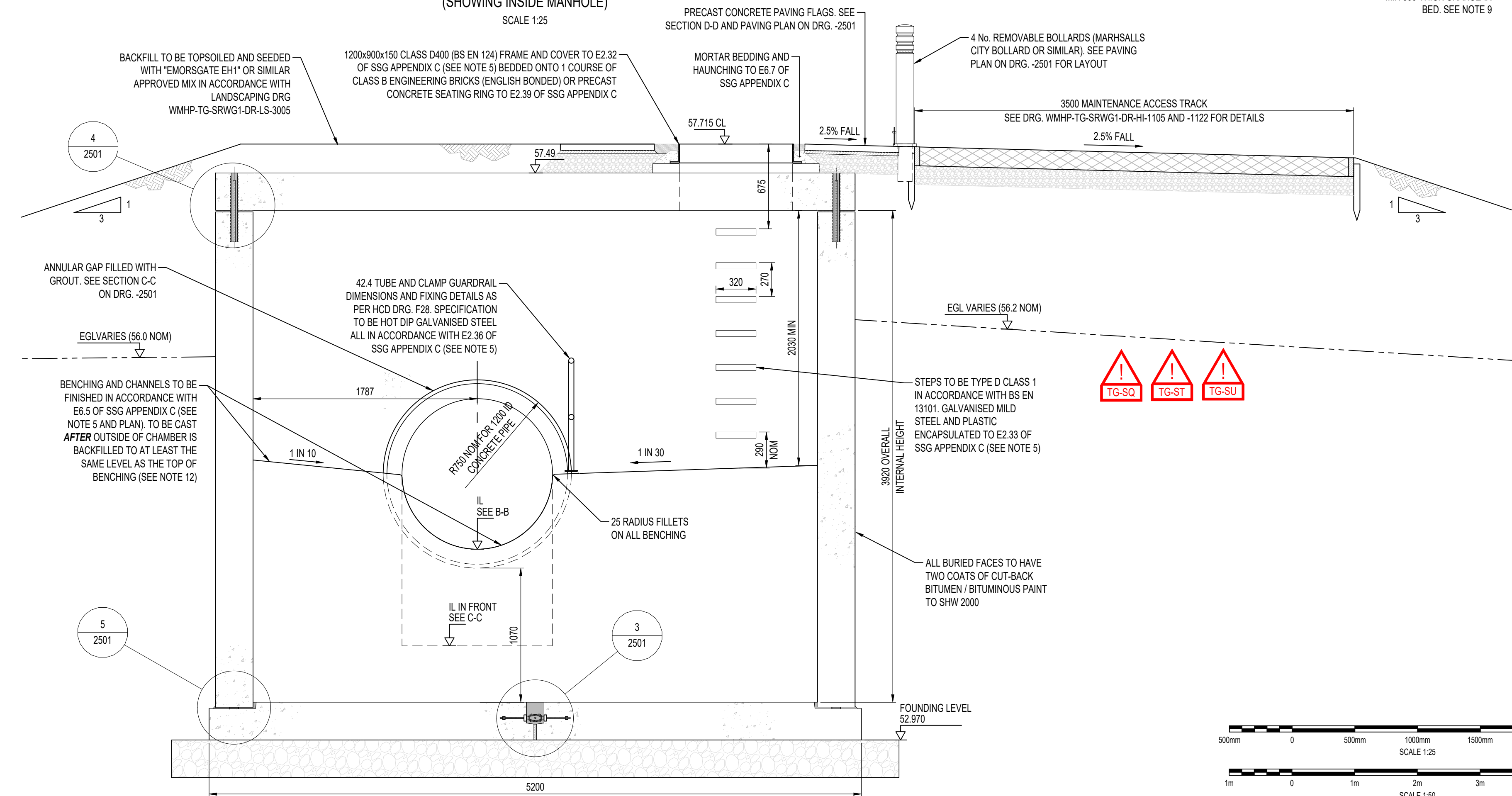


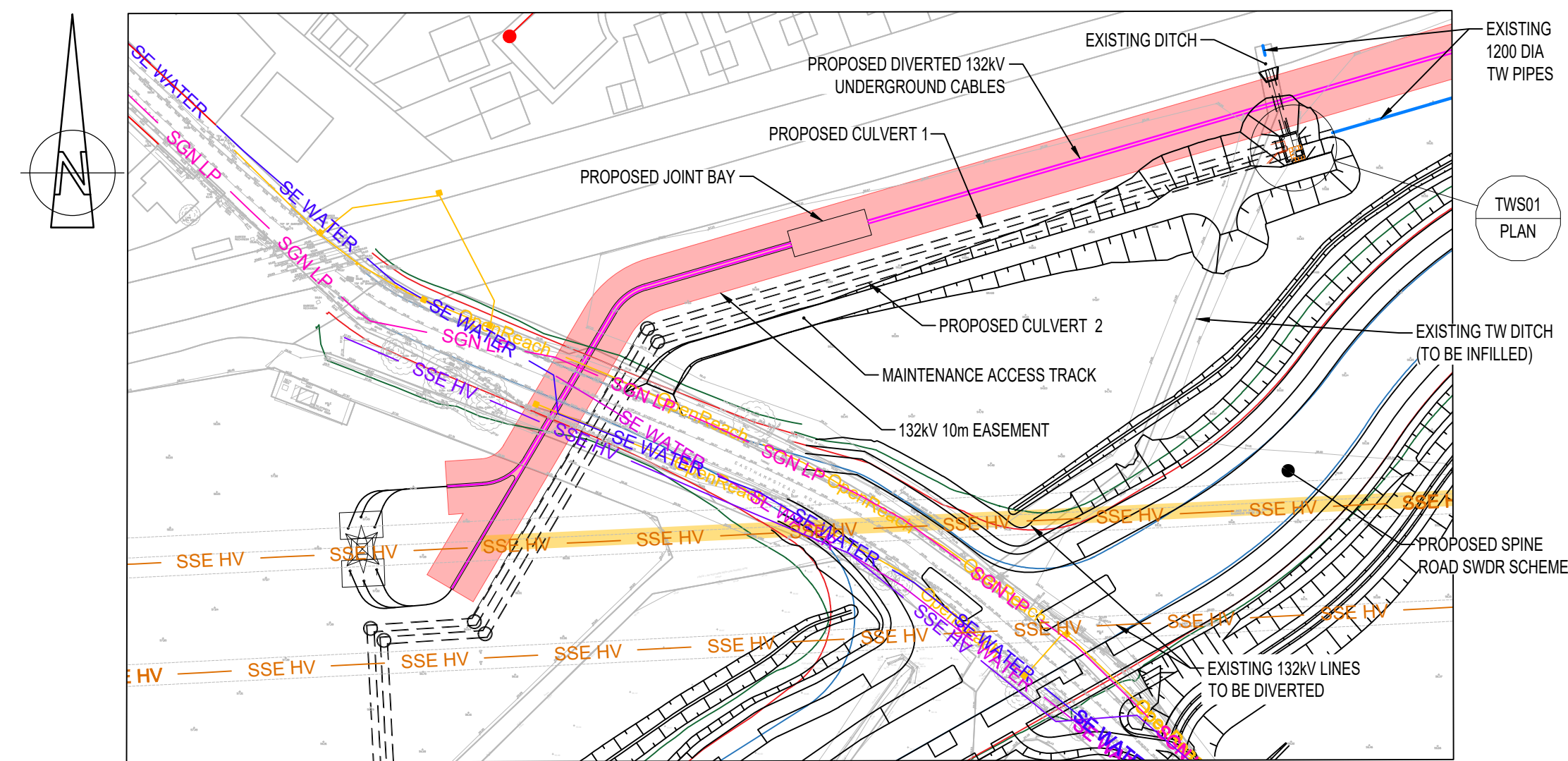
File name: P:\BOLTON\PROJECTS\2021\18047\18047\BIM\01-WP\DRAWINGS\WMHP-TG-SRWG1-DR-DD-2501.DWG, printed on 04 November 2021 10:31:22, by K11



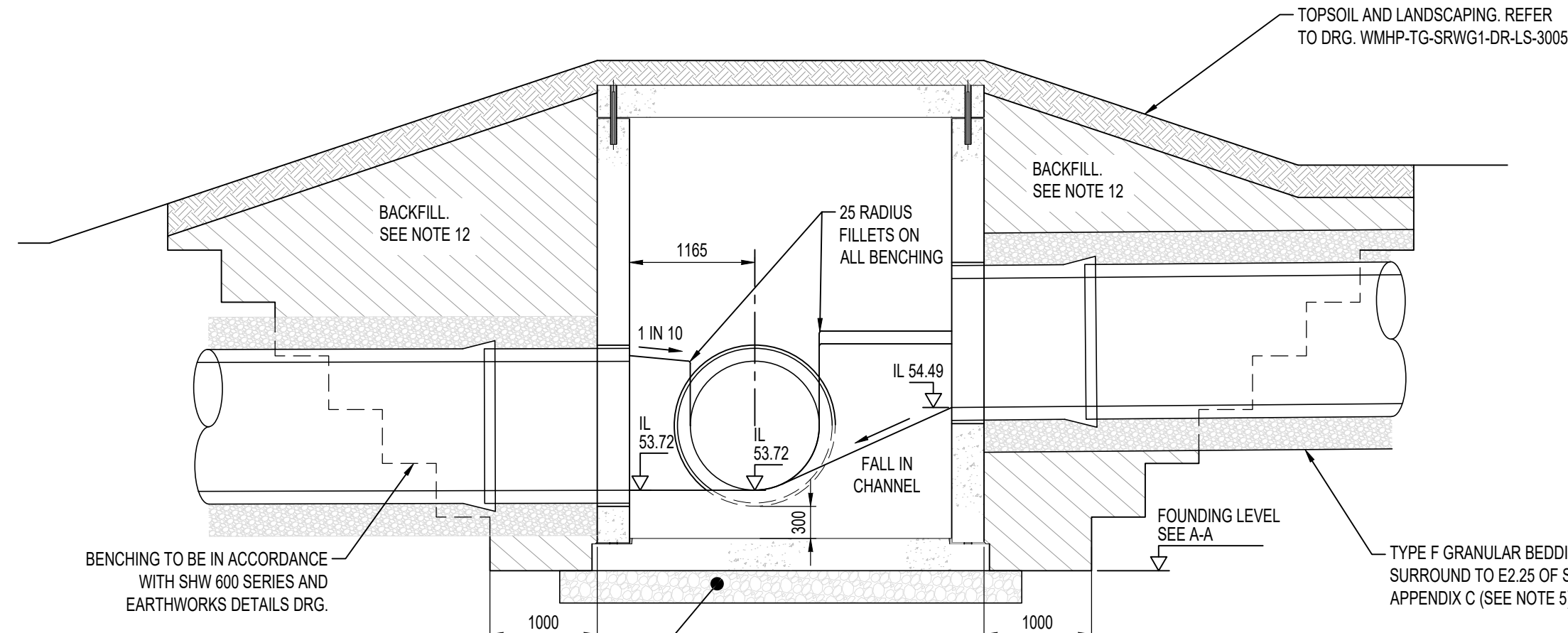
TWS01 SECTIONAL PLAN
(SHOWING INSIDE MANHOLE)
SCALE 1:25



SECTION A-A
SCALE 1:25



KEY PLAN
SCALE 1:1000



SECTION B-B
SCALE 1:50

SETTING OUT COORDINATES

SOP_NO.	EASTING	NORTHING
SOP 001	482341.520	167929.991
SOP 002	482342.977	167924.999
SOP 003	482337.968	167928.954
SOP 004	482339.425	167923.962

SIGNIFICANT RESIDUAL HAZARDS

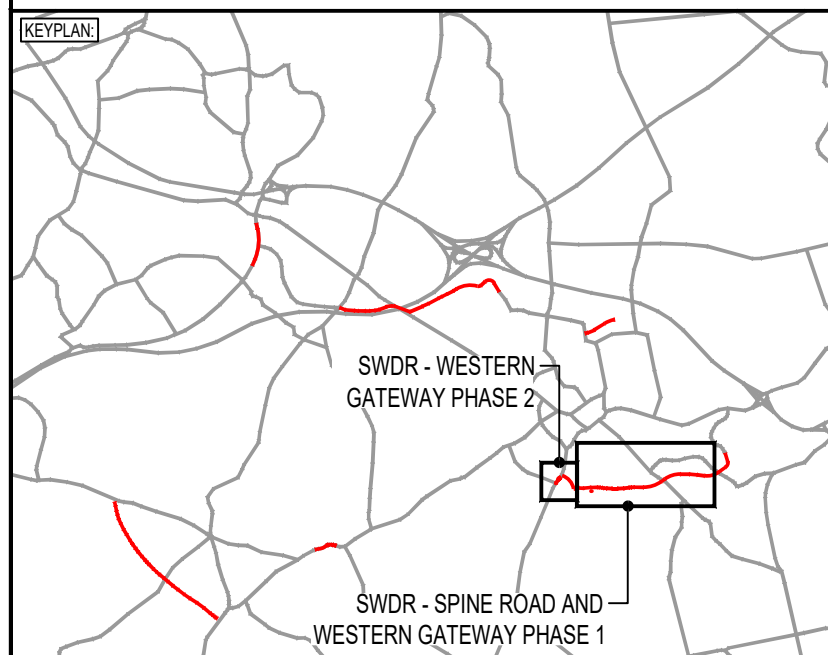
RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
UNEXPLODED ORDNANCE 	C/D	"LOW RISK" CATEGORY IDENTIFIED BY "1ST LINE DEFENCE" DESK STUDY RA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS
ACCESS INSIDE CHAMBER - CONFINED SPACE 	C/D	SITE SPECIFIC RISK ASSESSMENT TO BE CARRIED OUT INCLUDING EMERGENCY EVALUATION PLAN. QUALIFIED / TRAINED PERSONNEL TO ACCESS ONLY. THAMES WATER GUIDE TO PLANNING ENTERING AND WORKING SAFELY IN CONFINED SPACE TO BE FOLLOWED.
RISK OF ASBESTOS CONTAINING MATERIALS (ACM) IN EXISTING STRUCTURE 	C/D	CONTRACTOR TO CONDUCT APPROPRIATE SURVEYS TO DETERMINE RISK OF ACMs IN PRIOR TO DEMOLITION / REMOVAL. WHERE ACMs PRESENT, IT SHALL BE MANAGED IN ACCORDANCE WITH CONTROL OF ASBESTOS REGULATIONS.
ENCOUNTERING GROUNDWATER IN EXCAVATION 	C/D	CONTRACTOR TO IMPLEMENT SUITABLE WATER MANAGEMENT MEASURES AS NECESSARY
POSSIBLE PRESENCE OF BURIED SERVICES 	C/D	SEARCH RESULTS HAVE INDICATED NO SERVICES. HOWEVER, CONTRACTOR TO CONFIRM VIA LATEST STATUTORY UNDERTAKERS' SEARCHES AND SCAN AREA PRIOR TO CONSTRUCTION.

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.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING WMHP-TG-SRWG1-DR-DD-2501, -2505 AND -2506.
- DIMENSIONS AND LEVELS SHOWN ON DRAWING ARE TO BE CONFIRMED AT DETAILED DESIGN.
- MANHOLE DESIGN, SPECIFICATION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH "SEWERAGE SECTOR GUIDANCE APPENDIX C - DESIGN AND CONSTRUCTION GUIDANCE" ("SSG APPENDIX C") PUBLISHED BY WATER UK.
- PROPRIETARY MANHOLE SYSTEM SHOWN HERE IS MARSHALLS CPM "FLATPACK" SYSTEM. ALTERNATIVES SUCH AS FP McCann "STORMCHAMBER" ACCEPTABLE. OTHER EQUIVALENTS MAY BE PROPOSED BY CONTRACTOR FOR DESIGNER ACCEPTANCE.
- THE DETAILED DESIGN OF THE PROPRIETARY SYSTEM (BY THE MANUFACTURER) SHALL BE IN ACCORDANCE WITH THIS DRAWING, DRAWING WMHP-TG-SRWG1-DR-DD-2500 AND THE AIP (DOC. REF. WMHP-TG-SRWG1-RP-SE-2501), WHICH PROVIDES LOADING AND PERFORMANCE REQUIREMENTS.
- EXISTING AS-BUILT SEWER RECORDS BASED ON RECORDS BY WOKINGHAM DISTRICT COUNCIL DATED FEBRUARY 1975, RECEIVED FROM THAMES WATER.
- FORMATION LEVEL TO BE INSPECTED AND ANY SOFT AREAS (WHERE UNDRAINED SHEAR STRENGTH $C_u < 50$ 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 WELL-GRADED CLASS 6A SELF-COMPACTING GRANULAR FILL WHERE WORKING IN GROUND WATER, OTHERWISE COMPACTED CLASS 1 GRANULAR FILL TO EARTHWORKS SPECIFICATION WMHP-TG-SRWG1-SP-GE-0601 GENERALLY. THIS IS TO BE OVERLAIN BY 300 THK CLASS 6A (OR CLASS 1 IF DRY) COMPACTED BEDDING AND FINISHED WITH 15-20mm SHARP SAND / CEMENT MIX SCREED TO PROVIDE A UNIFORM LEVEL SURFACE.
- REFER TO DRAWING WMHP-TG-SRWG1-DR-DD-0560 FOR CONNECTING CULVERT ALIGNMENT AND LEVELS.
- 132kV DIVERSION (BY OTHERS) INDICATIVE ALIGNMENT TAKEN FROM MODEL FILE "X_132kV DIVERSION SUPPLIED BY WSP ON 14/02/2020).
- BACKFILL MATERIAL TO COMPRISE COHESIVE CLASS 2A GENERAL FILL OR GRANULAR CLASS 6N / 6P IN ACCORDANCE WITH SHW 600 SERIES TABLE 6/1, SPECIFICATION APPENDICES TO 600 SERIES (WMHP-TG-SRWG1-SP-GE-0601) AND E3.4 OF SSG APPENDIX C (SEE NOTE 5), PLACED AND COMPACTED IN ACCORDANCE WITH CL. 612 AND E3 OF SSG APPENDIX C. CHAMBER TO BE BACKFILLED AT LEAST UP TO TOP OF CONCRETE BENCHING PRIOR TO CASTING BENCHING.



PO4	27/10/2021	VIA	UPDATED FOLLOWING TAA COMMENTS	KL	CMF
PO3	22/09/2021	BPH	DETAILED DESIGN FOR S104 APPLICATION	KL	CMF
PO2	26/08/2021	BPH	TAA COMMENTS ADDRESSED	KL	CMF
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:

SUITABLE FOR REVIEW & COMMENT

S3

DESIGNER:

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Consulting Civil, Structural and Geotechnical Engineers

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PROJECT:

WOKINGHAM MAJOR HIGHWAYS PROGRAMME
SPINE ROAD AND WESTERN GATEWAY PHASE 1

TITLE:

THAMES WATER CULVERT
BESPOKE MANHOLE TWS01
GENERAL ARRANGEMENT

SHEET 1

SCALE @ A1:

AS SHOWN	CHECKED: KL	APPROVED: CMF
PROJECT NO: C118047	DESIGNED: VIA	DRAWN: BPH
		DATE: April 21

DRAWING NO:

WMHP-TG-SRWG1-DR-DD-2500

REV:

P04