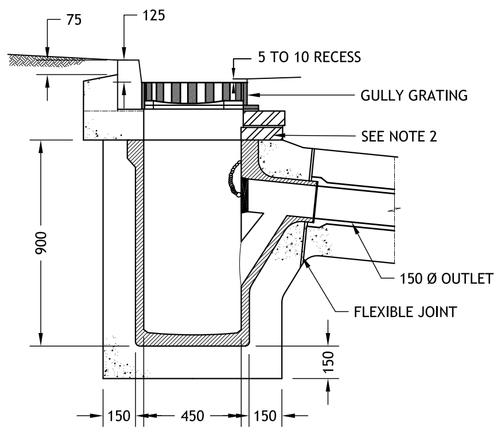
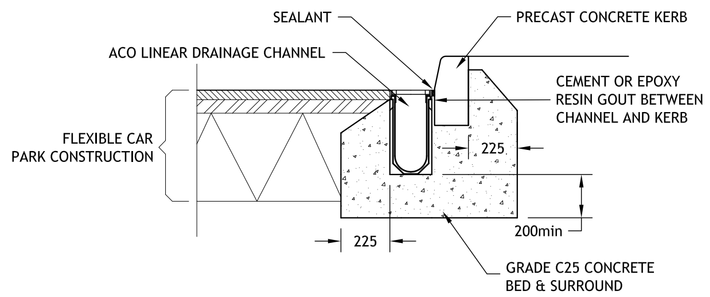


1. DUCTILE IRON GULLY GRATING AND FRAME TO BS EN124 LOAD CLASS D400 BEDDED ON 10mm 1:3 SAND/CEMENT MORTAR (NON-ROCK DESIGN).
2. COVER AND FRAME TO BE SEATED ON 2 COURSES MIN , 4 COURSES MAX OF ENGINEERING BRICKWORK CLASS "B"
3. GULLY POTS TO BE PRECAST CONCRETE TO BS 5911 PART 2 WITH 150mm THICK ST4 CONCRETE FOUNDATION ANDSURROUND. OUTLET TO BE 150mm DIA., TRAPPED, WITH GALVANIZED METAL CHAIN AND STOPPER.
4. UNLESS OTHERWISE STATED PIPE CONNECTION BETWEEN MAIN RUN AND GULLY CONNECTION TO BE BEDDING TYPE Z.
5. MINIMUM WATERWAY OF GULLY TO BE 916cm .

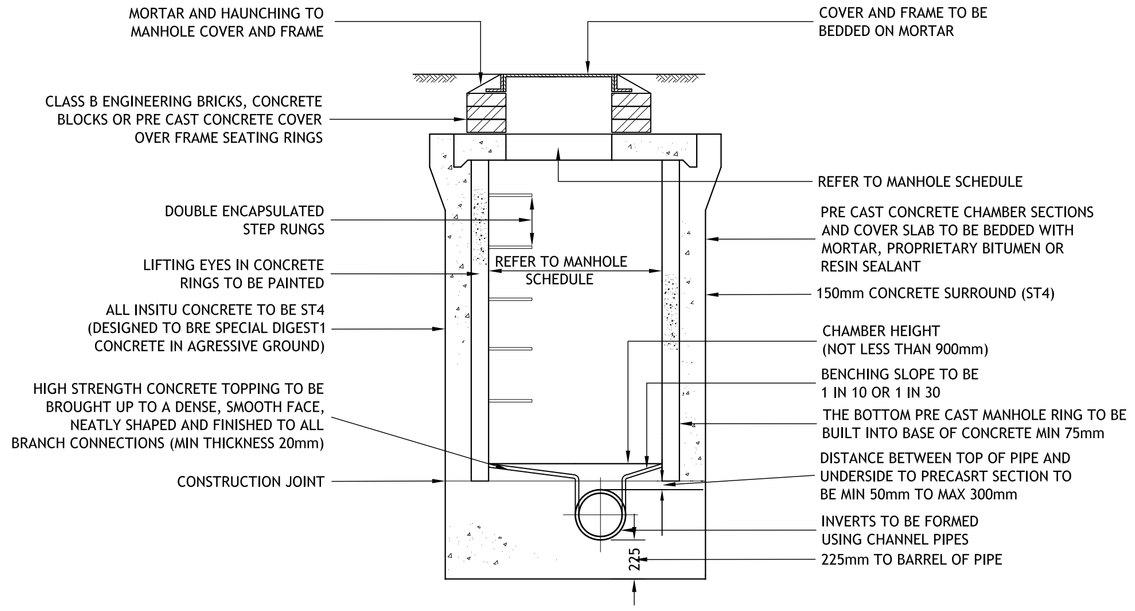
STANDARD ROAD GULLY DETAIL

SCALE 1:20



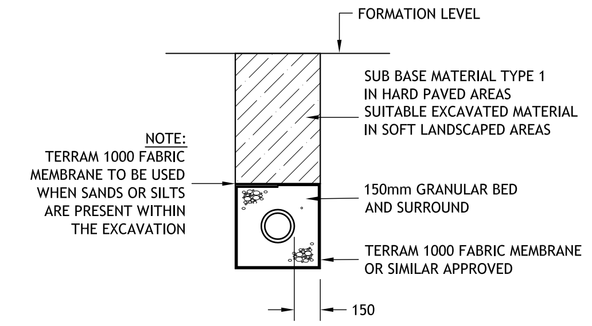
DETAILS OF CHANNEL INSTALLATION ADJACENT TO KERB

SCALE 1:20



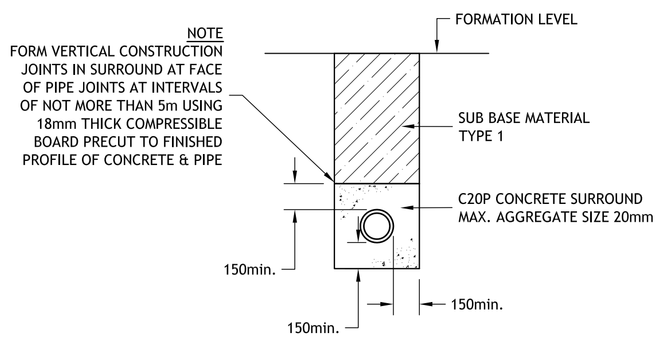
TYPICAL MANHOLE DETAIL - TYPE B

SCALE 1:25



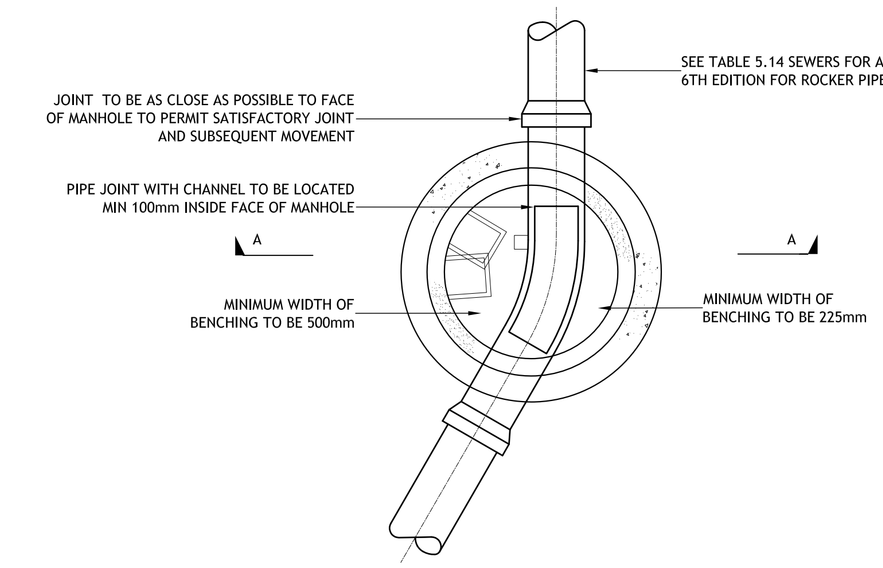
PIPE BEDDING - TYPE S

SCALE 1:25

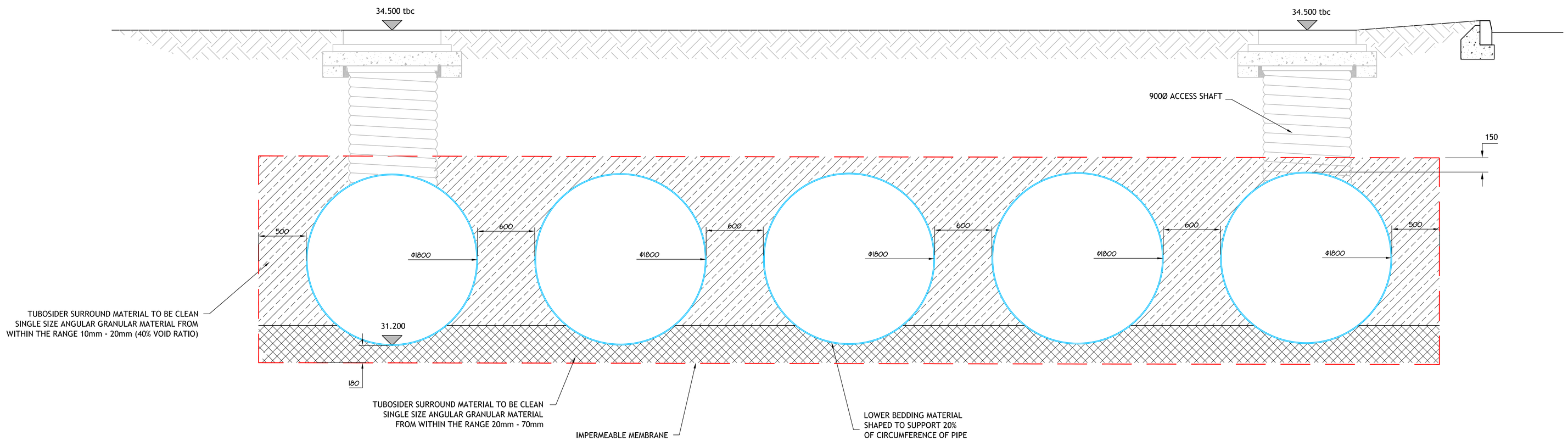


PIPE BEDDING - TYPE Z

SCALE 1:25



PLAN OF TYPICAL MANHOLE



TYPICAL TUBOSIDER TWIN STORE DETAIL

SCALE 1:25

DO NOT SCALE

NOTES

1. ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.

2. CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT TOLLERANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UPTO A MAXIMUM OF 20mm

3. FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.

4. PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917

5. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.

6. BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.

7. CLAY PIPES TO COMPLY TO BS EN 295

8. CONCRETE PIPES TO COMPLY TO BS EN 1916

9. TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.

10. PLASTIC PIPE ALTERNATIVES
IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:

DRAINAGE CONNECTIONS OF LESS THAN 150Ø SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1

PIPE SIZES 150-900Ø (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01

PIPE SIZES 150-900Ø (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.

THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.

11. THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT TRADITIONAL MATERIALS MUST BE USED UNLESS EXPRESSIVELY INFORMED OTHERWISE.

12. MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 1:40 ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

13. MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 25mm ACROSS THE MAIN CHANNEL. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

14. POLYPROPYLENE INSPECTION CHAMBERS OF 500Ø > 1.2m DEEP TO BE FITTED WITH A REDUCED ACCESS FITTING.

REV	DATE	BY	DESCRIPTION	CHK	APD
P1	11.02.15	WNL	ISSUED FOR COMMENT	MCH	PJB

DRAWING STATUS: PRELIMINARY

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ARCHITECT: TACP ARCHITECTS

PROJECT: LLOYDS WAREHOUSING

TITLE: MANHOLE SCHEDULE

SCALE @ SIZE:	CHECKED:	APPROVED:
NTS	MCH	PJB
CAD FILE: -	DESIGN/DRAWN: WNL	DATE: JAN'15

PROJECT No:	DRAWING No:	REV:
T/15/1570	CL(19)02	P1