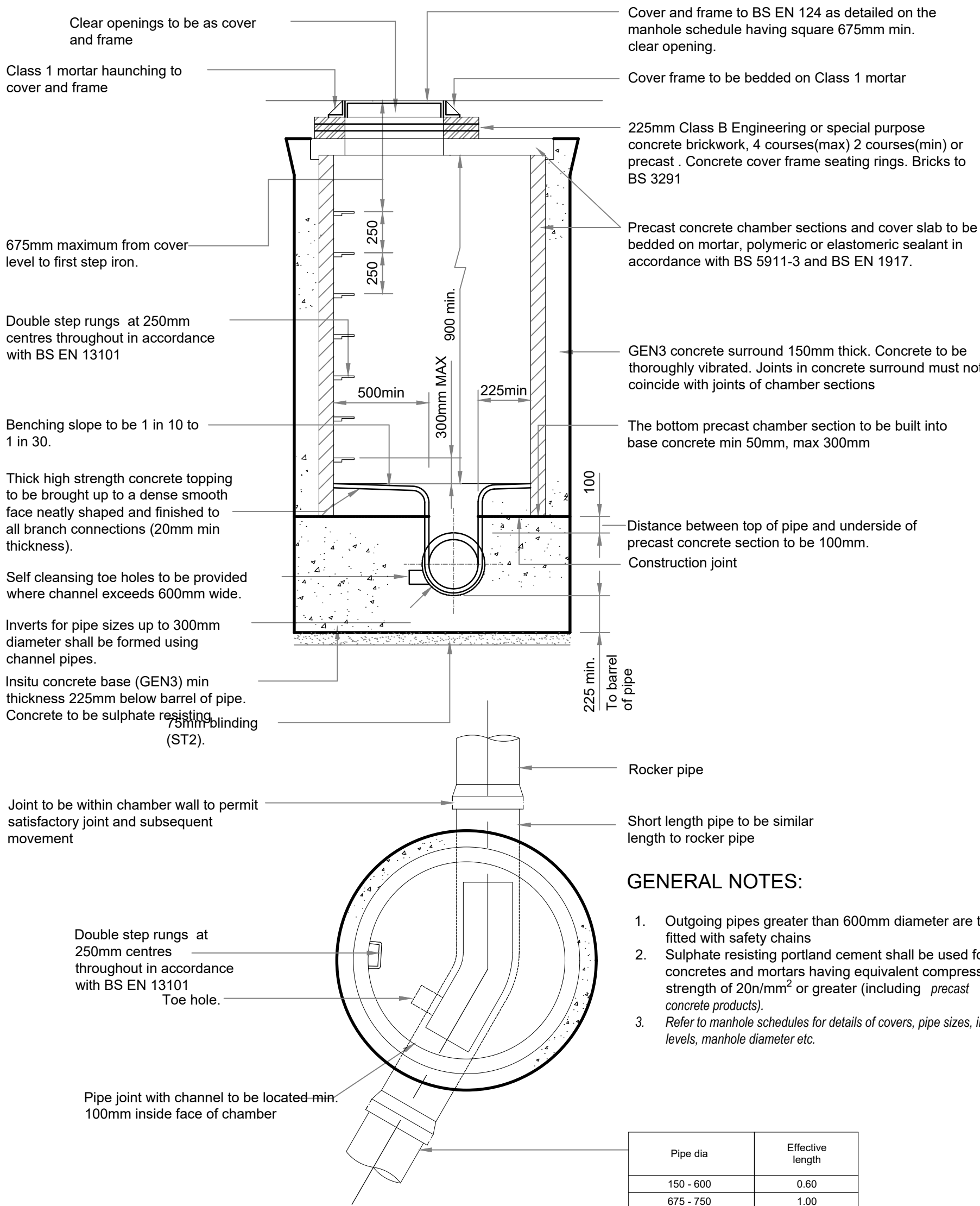


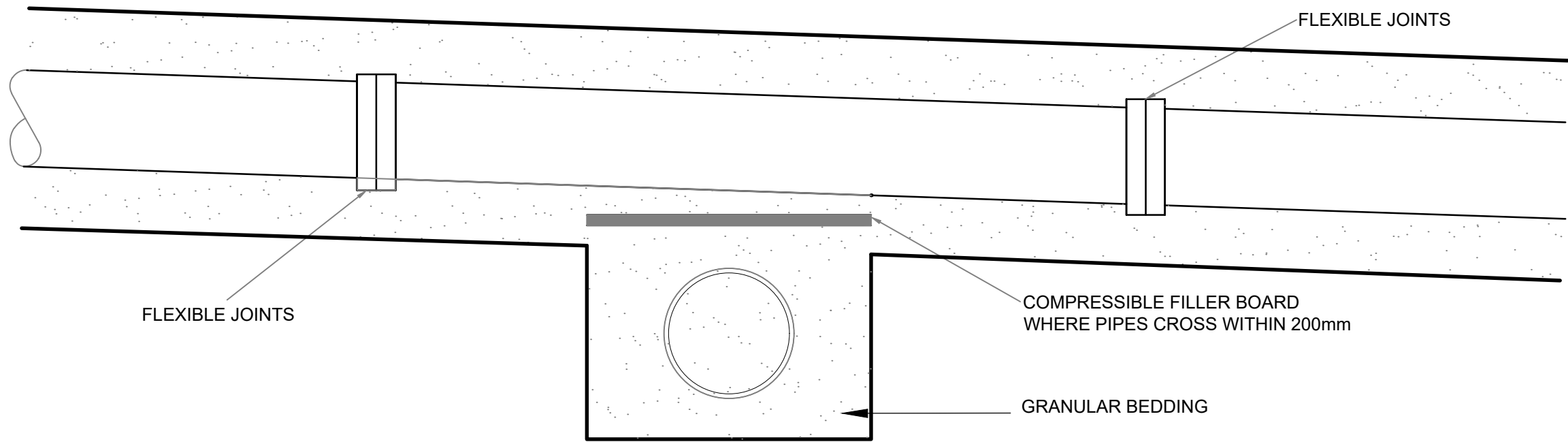


MANHOLE - TYPE B
DEPTH TO SOFFIT = 3.0m MAXIMUM

Pipe dia	Effective length
150 - 600	0.60
675 - 750	1.00
825 & over	1.25

GENERAL NOTES:

- Outgoing pipes greater than 600mm diameter are to be fitted with safety chains
- Sulphate resisting portland cement shall be used for all concretes and mortars having equivalent compressive strength of 20n/mm² or greater (including precast concrete products).
- Refer to manhole schedules for details of covers, pipe sizes, invert levels, manhole diameter etc.



PIPE CROSSING DETAIL
N.T.S.

Pipe diameter	Y Minimum		Maximum trench width.	L
	Y1 min.	Y2 min.		
100	150	200	700	18
150	150	200	750	18
200	150	200	800	18
225	150	200	825	18
250	150	200	850	18
300	150	200	925	18
350	150	200	1000	18
375	150	200	1025	18
400	150	200	1090	18
450	150	200	1175	36
500	150	200	1240	36
525	150	250	1270	36
600	150	250	1370	36
675	150	250	1420	36
700	225	300	1460	36
750	225	300	1500	36
800	225	300	1560	36
825	225	300	1585	36
900	225	300	1675	36
975	225	300	1805	36
1050	225	300	1865	36
1125	225	350	1950	36
1200	375	350	2035	36
1350	375	400	2220	54
1500	375	450	2340	54
1650	375	500	2510	54
1800	375	500	2690	54

- NOTES:
- All dimensions are in millimetres.
 - Dimension Y1 shall be used unless Y2 is specified or is directed by the engineer.
 - Dimension Y2 shall be used in place of Y1 where the excavation is in rock or in mixed soils containing rock beds, boulders, large flints or other irregular hard spots.
 - Dimension Y2 shall be increased by 40mm for each additional 1.0m of cover in excess of 5.0m.
 - Dimension L is the width of compressible filler required at joints in concrete

PIPE BEDDING DIMENSIONS

Pipe diameter	Class of bedding	Imported granular material (note 1)
100	S B	10mm nominal size
Over 100 to 150	S B	10 or 14mm nom. single size or 14 to 5mm graded
Over 150 to 500	S B	10,14,20mm nom. single size or 14 to 5mm graded or 20 to 5mm graded
Over 500 (Note 2)	S B	10,14,20mm nom. single size crushed rock or 14 to 5mm graded or 20 to 5mm graded or 40 to 5mm graded

- NOTES:
- Imported granular materials to include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 & sintered pulverized fuel ash to BS.3797.
 - Angular materials should be chosen to ensure sufficient support is provided to heavier pipes.
 - Class S bedding shall be used with flexible pipes.

GRANULAR BEDDING AND SIDEFILL MATERIALS

- Notes:
- All drainage to be constructed in accordance with Design and Construction Guidance for foul and surface water sewers (DCG) and all relevant Southern Water Addendums, building regulations 2010 approved document Part H and BS EN 752:2008.
 - Refer to drawing 23269_500 for drainage layout
 - Refer to drawing 23269_501 for longsections

T1	30.09.25	Preliminary issue	MD	MB
Rev	Date	Description	By	Apvd

PROJECT:
HANNS WAY, EASTLEIGH

TITLE:
S104 DRAINAGE DETAILS

CLIENT:
DOSWELL PROJECTS

SCALE@A1:
AS SHOWN

PROJECT REF:
23269
DRAWING No: 560
REV: T1

Revision Referencing
P = Preliminary A = Approval T = Tender C = Construction

Jubb