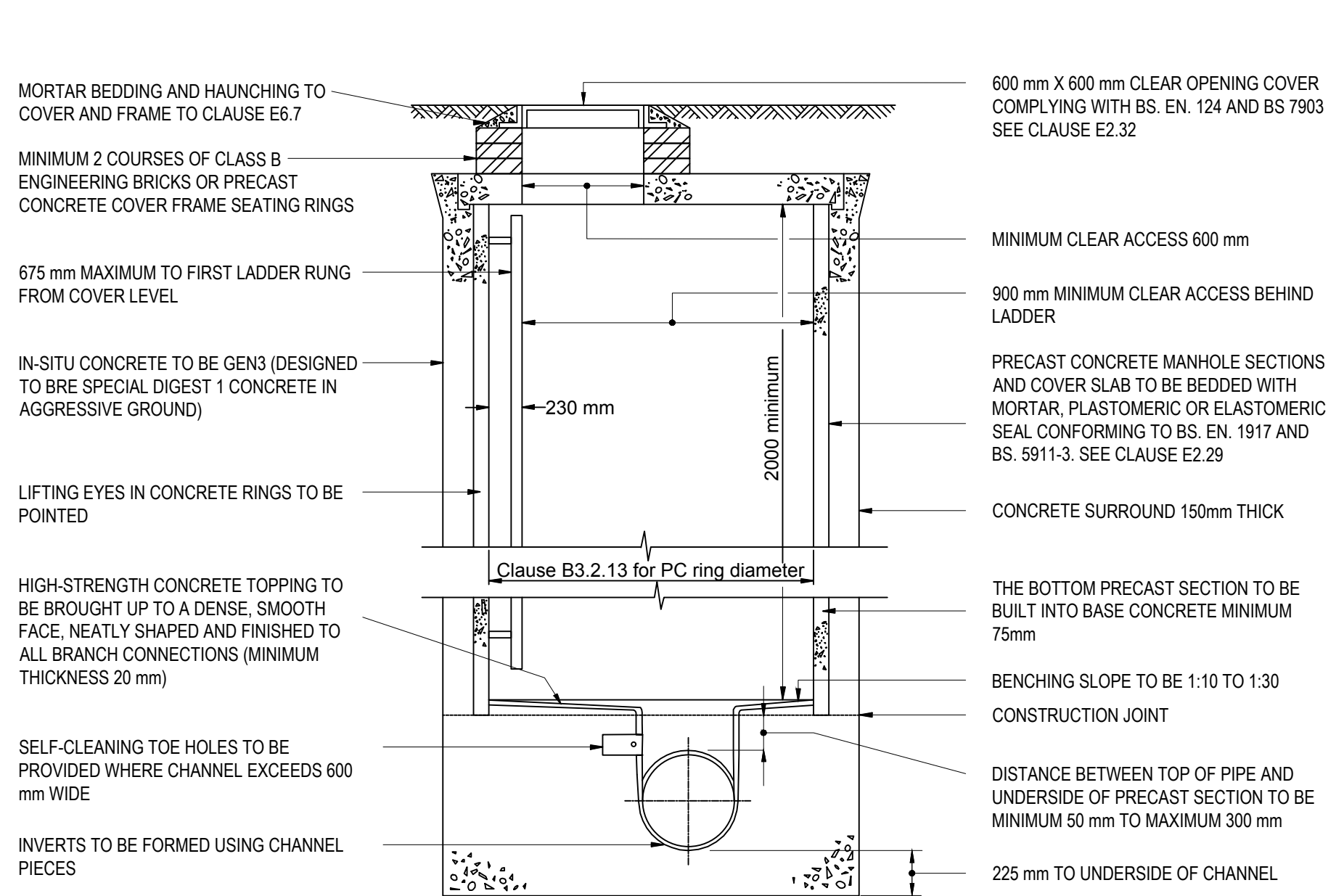
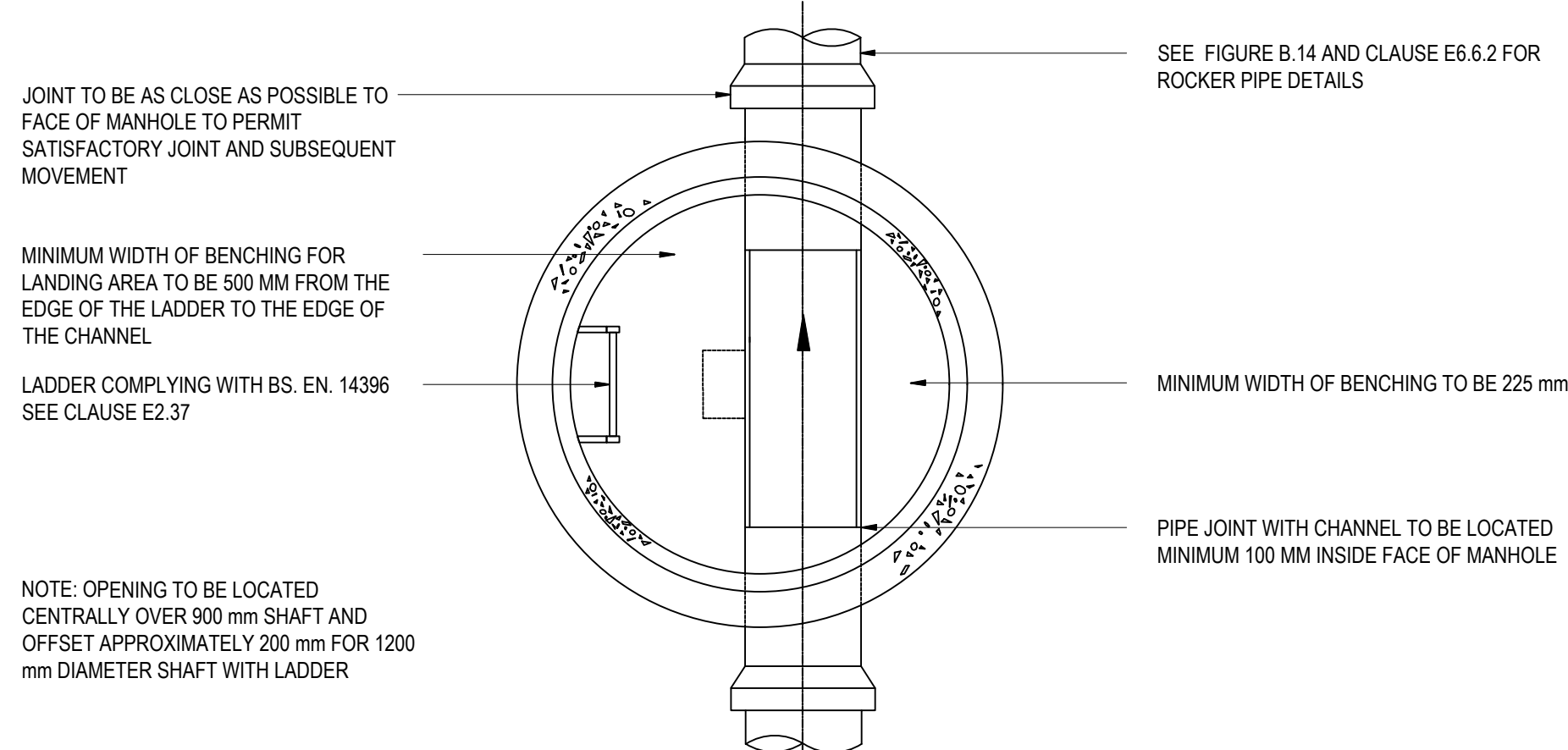


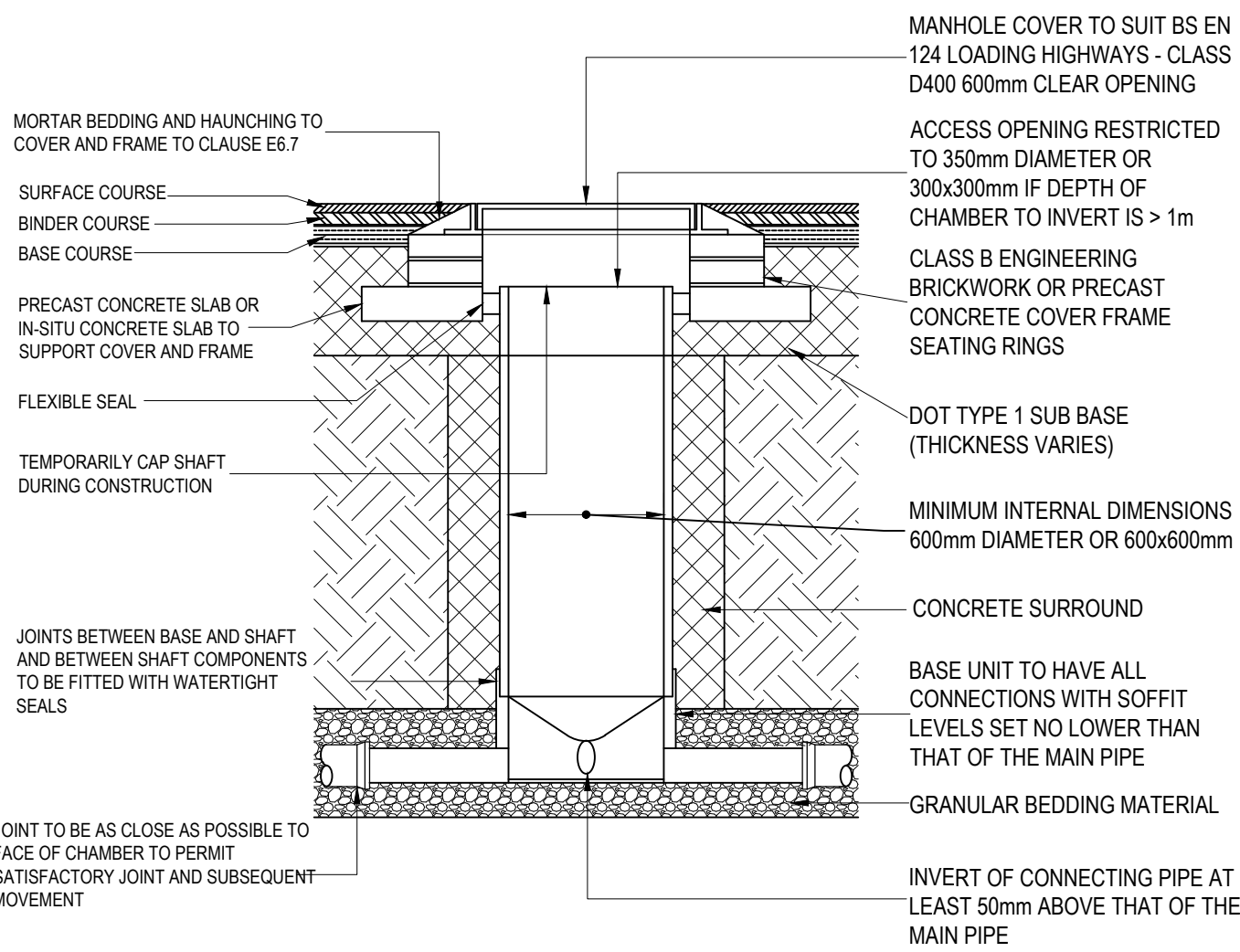


TYPICAL MANHOLE DETAIL - TYPE 1B

(REFER TO FIG. B.10 OF SEWERS FOR ADOPTION 7th EDITION) (MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT LEVEL OF PIPE 3.0m TO 6.0m)
SCALE 1:20

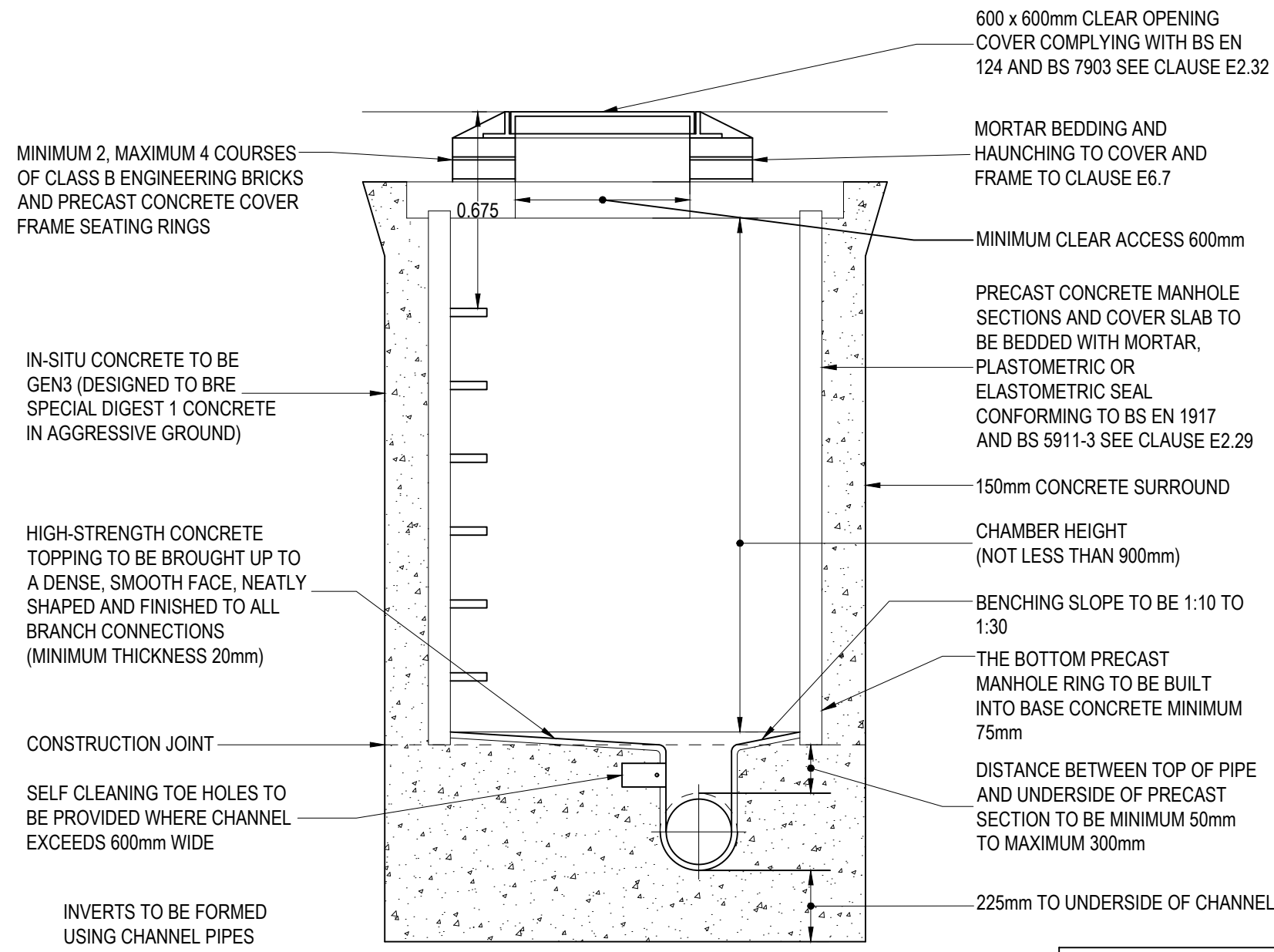


NOTE: OPENING TO BE LOCATED CENTRALLY OVER 900 mm SHAFT AND OFFSET APPROXIMATELY 200 mm FOR 1200 mm DIAMETER SHAFT WITH LADDER



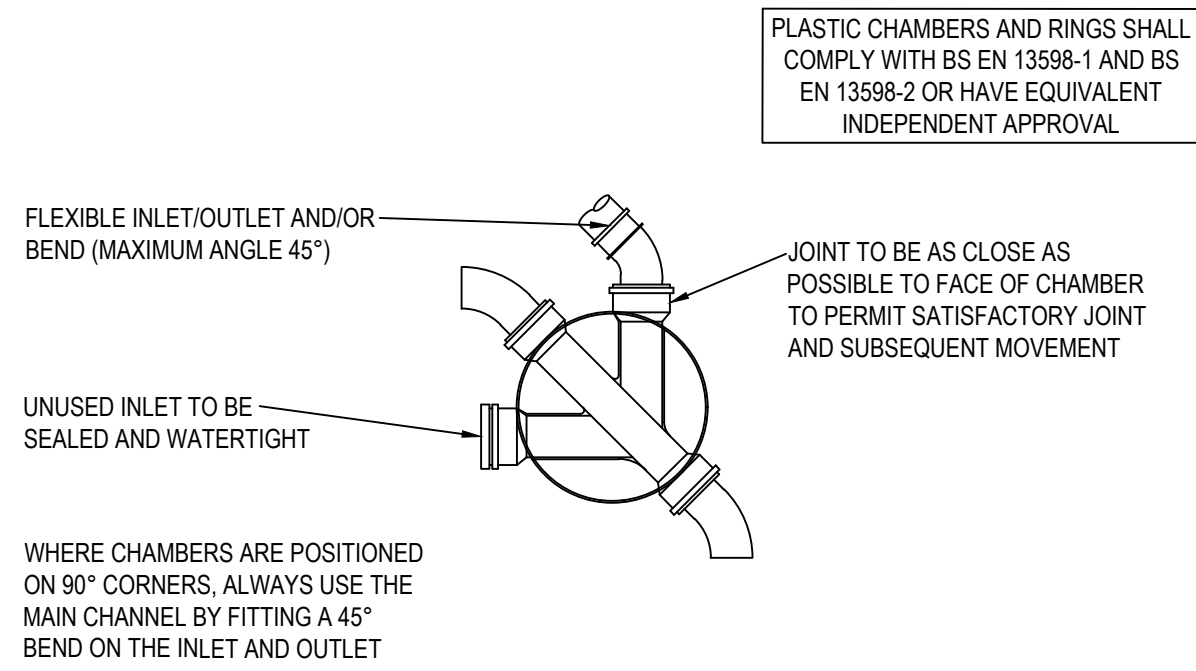
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3

(REFER TO FIG. B.16 OF SEWERS FOR ADOPTION 7th ED)
(DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3 - 6m)
(FLEXIBLE MATERIAL DETAIL)
NOT TO SCALE



TYPICAL MANHOLE DETAIL TYPE 2

(REFER TO FIG. B.12 OF SEWERS FOR ADOPTION 7th ED)
(MAXIMUM DEPTH FROM COVER TO SOFFIT LEVEL OF PIPE - 3.0m)
SCALE 1:20

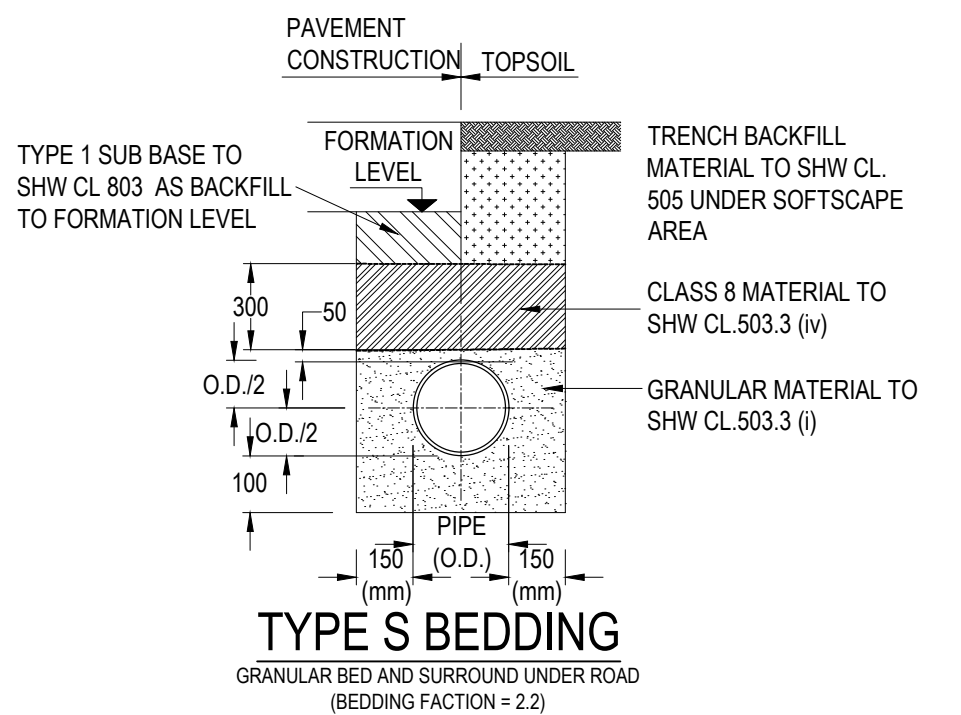


TYPICAL PLAN ON INSPECTION CHAMBER (REFER TO FIG. B.21 OF SEWERS FOR ADOPTION 7th ED)

(FLEXIBLE MATERIAL DETAIL)
SCALE 1:20

PIPE DIA.	ROCKER PIPE LENGTH
150 - 600	0.60m
675 - 750	1.00m
OVER 750	1.25m

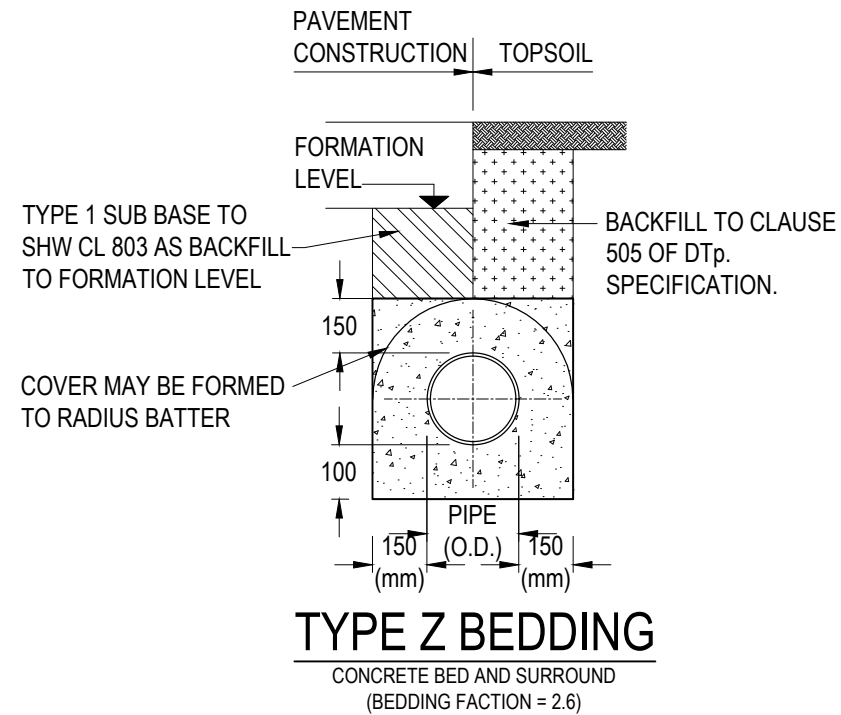
ROCKER PIPE DETAILS



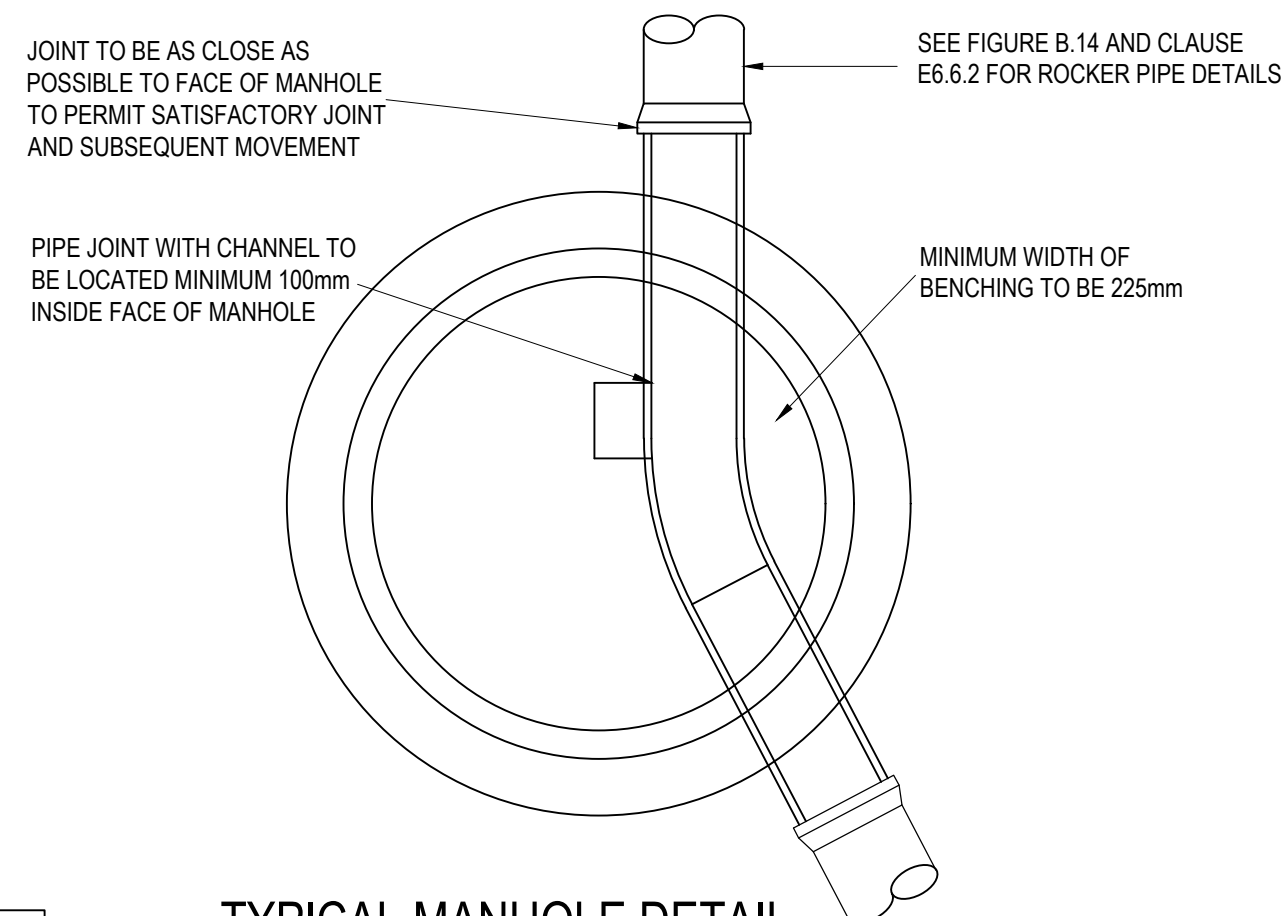
- NOTES:
1. REFER TO SHW TABLE 5/3 AND SHW TABLE 6/1
 2. BEDDING BENEATH AND AT SIDES OF THE PIPE TO BE WELL COMPACTED IN ACCORDANCE WITH CL 505.
 3. CONCRETE CRADLES AND ARCHES MAY BE EXTENDED TO THE SIDES OF THE TRENCH.
 4. GEOTEXTILES MAY BE USED WHERE DIRECTED OR APPROVED BY THE ENGINEER TO CONTAIN BEDDING MATERIAL IN CERTAIN SOILS E.G. RUNNING SAND.
 5. IN VERY WET CONDITIONS, WHERE DIRECTED OR APPROVED BY THE ENGINEER A TEMPORARY LAND DRAIN MAY BE LAID WITHIN THE GRANULAR BED.

BEDDING DETAILS

SCALE 1:20



- NOTES: (TYPE Z ONLY)
6. WHERE PIPES WITH FLEXIBLE JOINTS ARE USED, THE 6. CONCRETE PROTECTION IS TO BE INTERRUPTED OVER ITS FULL CROSS SECTION AT INTERVALS NOT EXCEEDING 5 METRES (OR AS DIRECTED BY THE ENGINEER) BY A SHAPED FORMER OF BITUMEN IMPREGNATED COMPRESSIBLE FILLER. THESE INTERRUPTIONS SHALL COINCIDE WITH PIPE JOINTS. SEE DIMENSIONS FOR PIPE BEDDING TABLE FOR THICKNESS OF COMPRESSIBLE FILLER.
 7. CONCRETE TO BE GRADE GEN 3. WHERE FLEXIBLE PIPES ARE USED, CARE MUST BE TAKEN
 8. TO PREVENT THE PIPES FROM FLOATING.

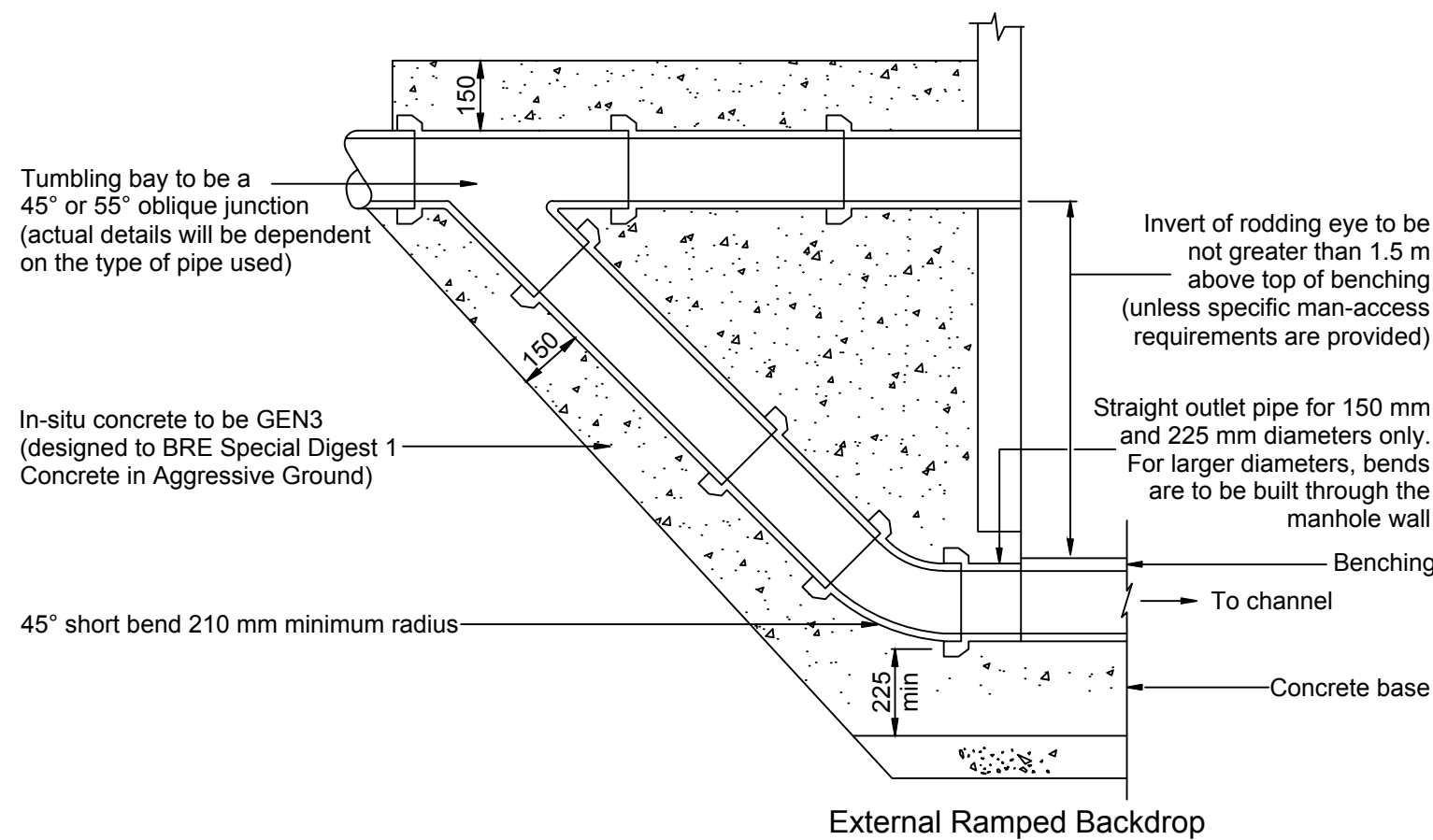
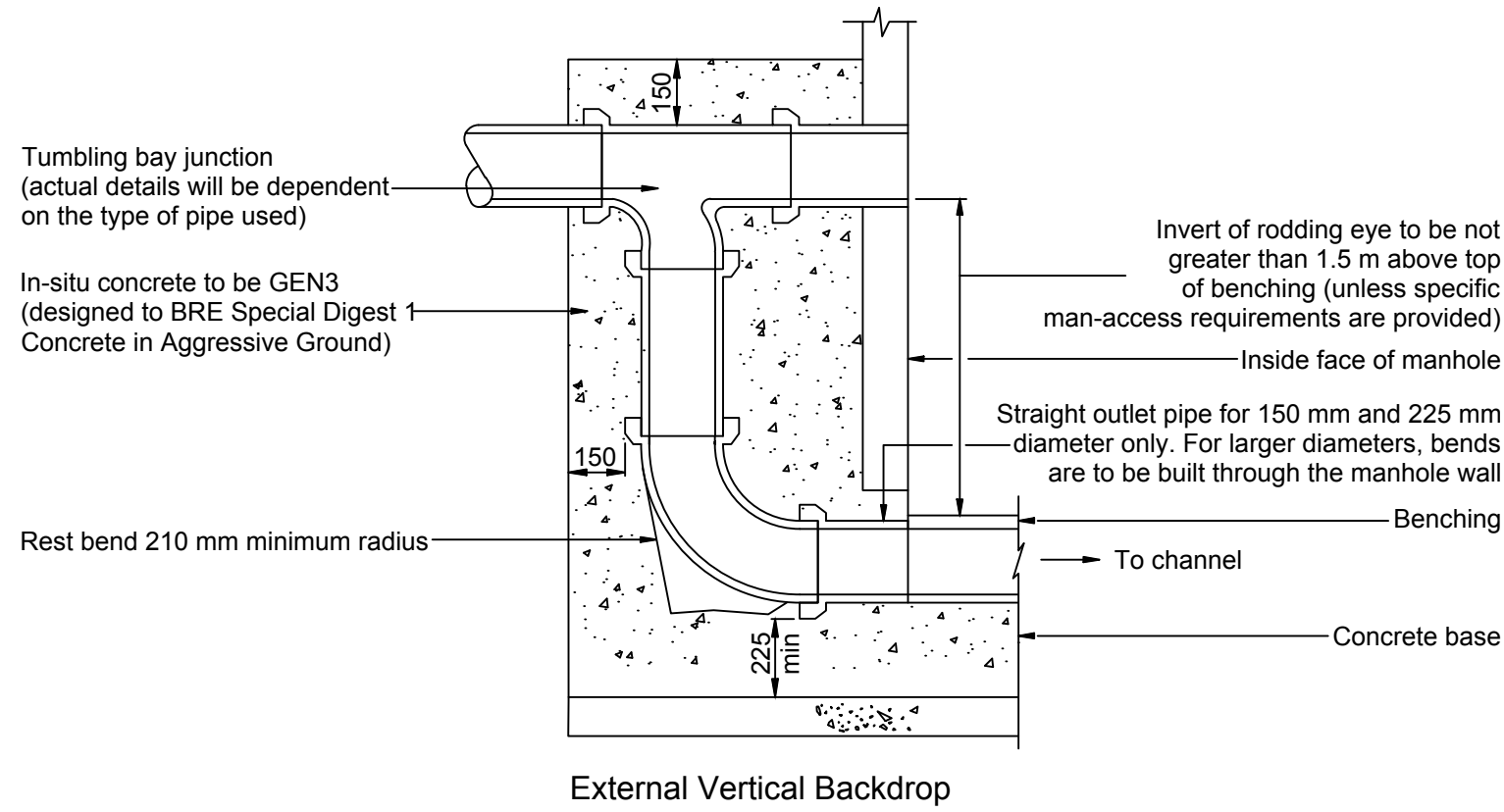


TYPICAL MANHOLE DETAIL TYPE 2 PLAN

SCALE 1:20

TYPICAL VERTICAL AND RAMPED BACKDROP DETAIL

Note: Steeper gradients are preferred to the use of backdrops.
Type of backdrop to be used to be agreed with Undertaker.



NOTE:

1. THE DEVELOPER MUST SELF VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADOPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN "SEWERS FOR ADOPTION" 7TH EDITION, THE WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF DCWW AS THE STATUTORY SEWERAGE UNDERTAKER.
2. SUBJECT TO A SECTION 104 ADOPTION AGREEMENT BEING COMPLETE, A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW, THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A SIPS REGISTERED CONTRACTOR.
3. CONTRACTOR TO CONFIRM PRIOR TO THE ABANDONMENT OF SEWER THAT NO EXISTING CONNECTION UPSTREAM EXIST. (TO ENSURE NO EXISTING USERS ARE CUT OFF.)
4. COMPLIANCE WITH HEALTH & SAFETY MATTERS ON ANY TRENCH/MANHOLE IS OBLIGATORY AND A PERMIT TO ENTER A CONFIRMED SPACE IS REQUIRED WHEN CONNECTING SITE DRAINAGE TO THE EXISTING PUBLIC SEWERAGE SYSTEM. A PERMIT TO ENTER A CONFINED SPACE WILL BE OBTAINED FROM DWR CYMRU/WELSH WATER PRIOR TO THE WORKS COMMENCING ON ANY PUBLIC SEWERAGE SYSTEM.
5. MH COVER & FRAMES SHALL BE DUCTILE IRON WITH A MINIMUM SQUARE OPENING OF 675x675mm. COVERS SHALL BE DOUBLE TRIANGLE FOR 675mm SQUARE OPENINGS AND BE PROVIDED WITH LOOSE BOLTED CONNECTIONS. FRAME DEPTH SHALL BE 150mm.
6. ALL IRONWORK TO BE KITE MARKED BY BSI OR CERTIFIED BY EQUAL INSPECTION AUTHORITY.
7. PLANTING CLOSE TO ADOPTABLE DRAINAGE RUNS INDICATED IS TO ACCORD WITH THE SPECIFICATIONS IN SFA 7th EDITION SECTION C3.1.13 TO COMPLY WITH THE REQUIREMENTS OF SFA 7th & THE WELSH MINISTERS STANDARDS.
8. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING No. 18219-S104-01 SECTION 104 LAYOUT

P1	28.09.19	Preliminary issue	JE	GS
Rev	Date	Description	By	Apvd

PROJECT:
COMMERCIAL / RESIDENTIAL DEVELOPMENT
WATER STREET, NEATH TOWN CENTRE

TITLE:
DRAINAGE DETAILS
SHEET 1 OF 2

CLIENT:
HALE CONSTRUCTION

SCALE@A1:
AS SHOWN

PROJECT REF:
15112
DRAWING No:
504
REV:
P1

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

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