

FIGURE B.12
TYPICAL MANHOLE DETAIL – TYPE 2

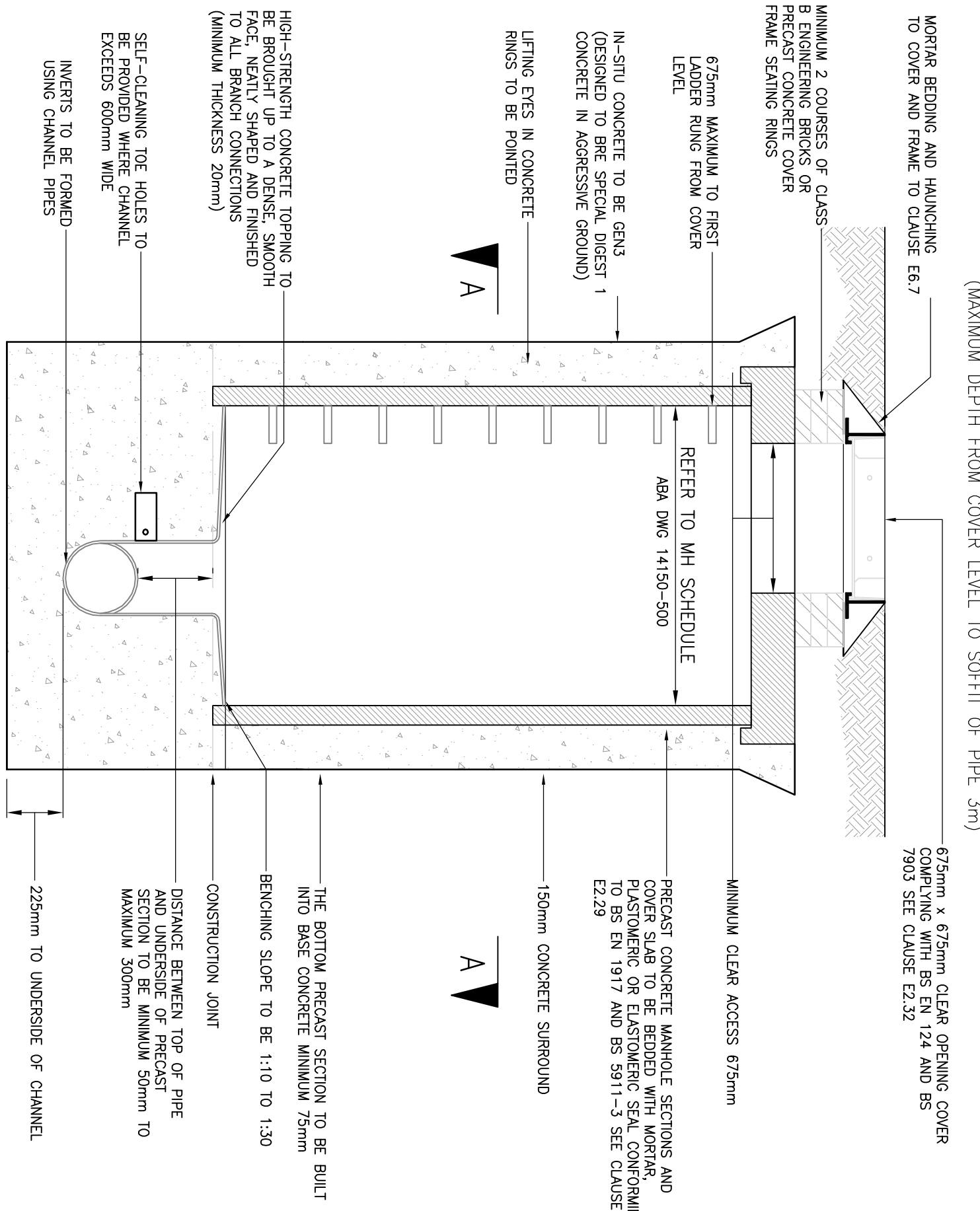


FIGURE B.16

TYPICAL INSPECTION CHAMBER DETAIL – TYPE 3 (FLEXIBLE MATERIAL DETAIL)

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON ENTRY

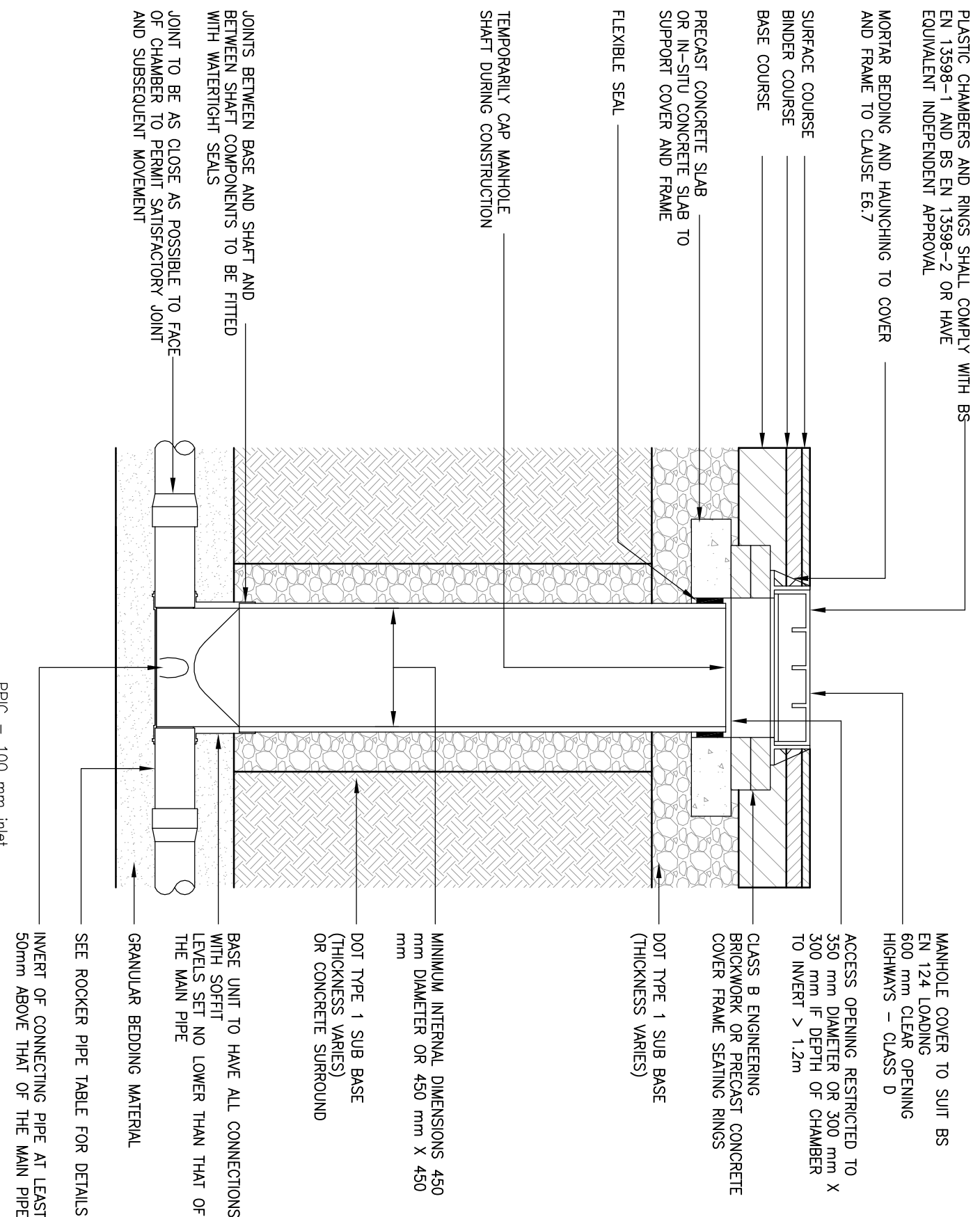
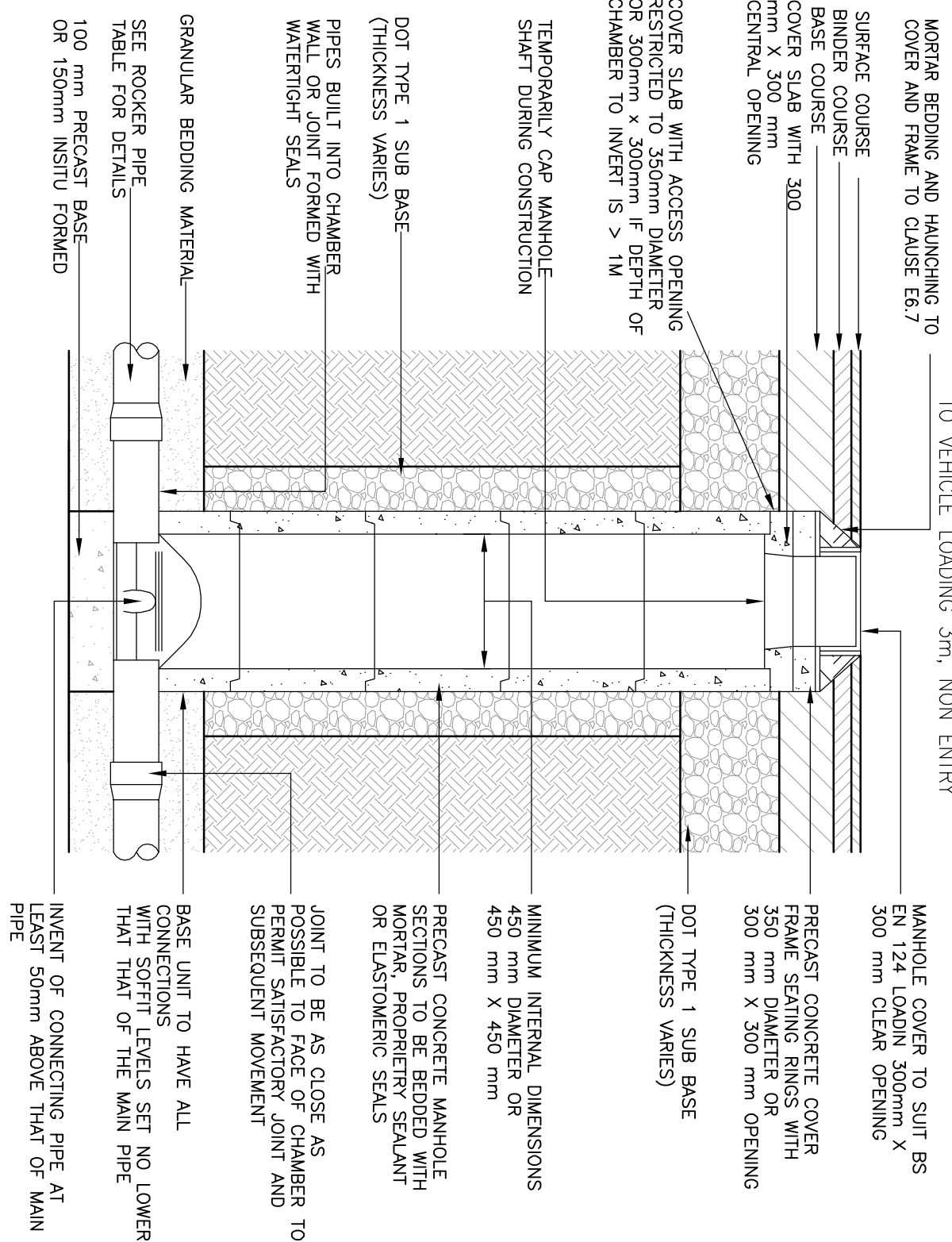


FIGURE B.18

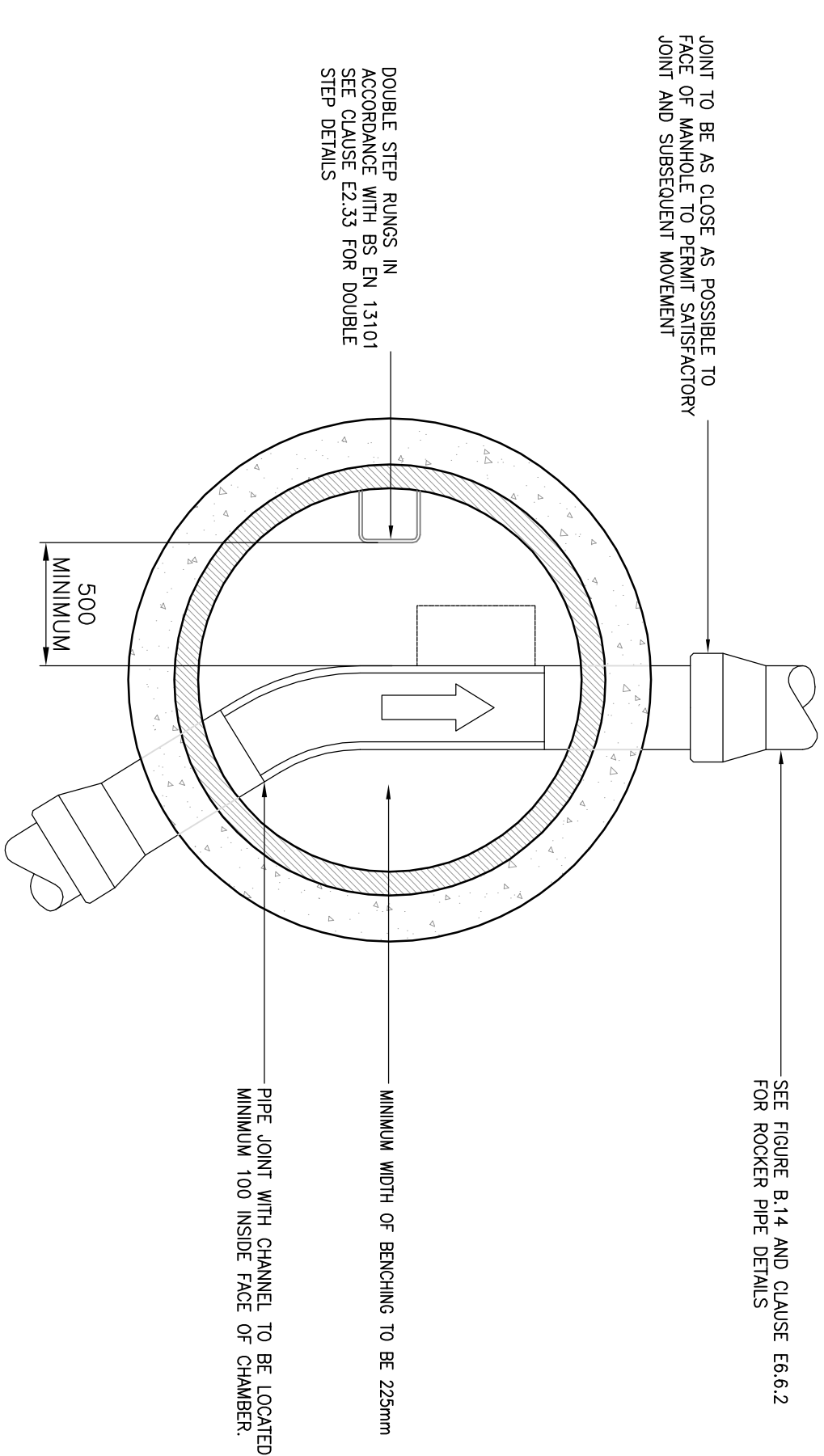
TYPICAL INSPECTION CHAMBER DETAIL – TYPE 3

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON ENTRY



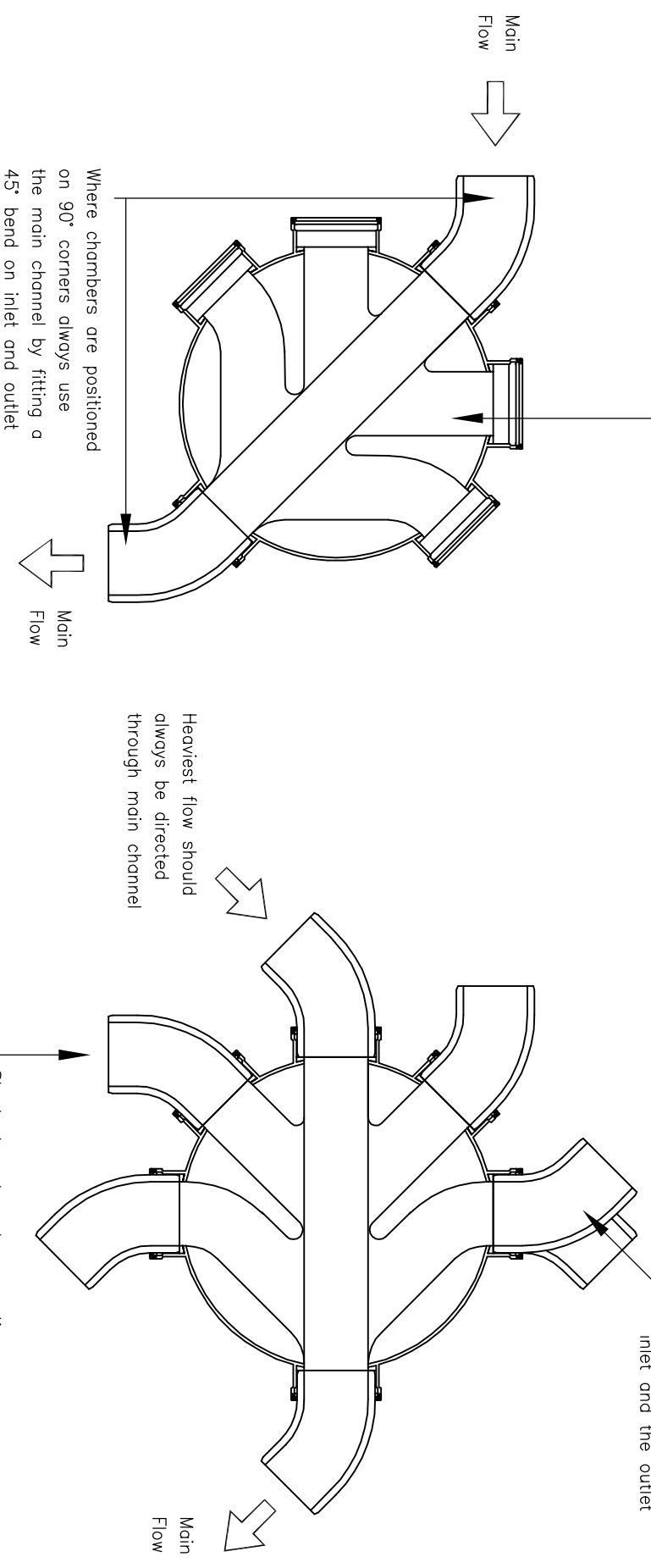
NOTES

- UNLESS NOTED OTHERWISE, ALL BUILDING DRAINAGE PIPES TO BE MAIN UTILITY P.C.U. TO BBA 98-5472.
- PIPES TO BE Laid IN ACCORDANCE WITH APPROVED MANUFACTURERS' GUIDELINES.
- ALL PIPING TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH BS 8301 AND BS 8005.
- MINIMUM COVER TO 150mm DIA PRECS: 600mm (FOR PIPES NOT UNDER ROADS)
- ALL PIPES TO BE SURROUNDED IN CONCRETE PROVIDE ACCESS OPENING RESTRICTED TO 350mm DIAMETER OR 300mm X 300mm IF DEPTH OF CHAMBER TO INVERT IS > 1.1m
- ALL PIPES WITH LESS THAN 1200mm COVER UNDER ROADS TO BE ENCASED WITH 150mm CONCRETE SURROUND UNLESS NOTED OTHERWISE.
- WHERE PIPES ARE SURROUNDED IN CONCRETE PROVIDE ACCESS OPENING RESTRICTED TO 350mm DIAMETER OR 300mm X 300mm IF DEPTH OF CHAMBER TO INVERT IS > 1.1m
- ALL FILL AND STORM WATER PIPES TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.
- MINIMUM GRADIENT FOR FILL WATER PIPES TO BE 1:100
- MINIMUM GRADIENT FOR STORM WATER DRAINAGE 1:100 DIA 1:100 150mm DIA 1:150
- CONTRACTOR TO INSPECT AND CONTROL LEVEL OF ALL EXISTING INVERTS & CONNECTION MANHOLES. ANY EXISTING INVERTS ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL PROPRIETARY ANNUALLY ITEMS (eg ATTENUATION TANKS, OIL INTERCEPTORS ETC) TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.



TYPICAL INSTALLATION DETAILS

SCALE 1:10



PROCESS WASTEWATER BELOW GROUND DRAINAGE

BELOW GROUND PIPEWORK CARRYING PROCESS WASTEWATER TO BE CHEMICAL RESISTANT PIPEWORK TO BE DESIGNED BY OTHERS & BE SUITABLE FOR HOLDING CAUSTIC SOLUTIONS UP TO 8% AT 85°C.

THE FILLER GIP SOLUTION PROPERTIES ARE:

MAOH (SODIUM HYDROXIDE) CONCENTRATION: 2.5% TEMPERATURE: 90°C

CLIENT TO CONFIRM TRADE EFFLUENT REQUIREMENTS PRIOR TO CONSTRUCTION.

SPECIALIST SUPPLIER

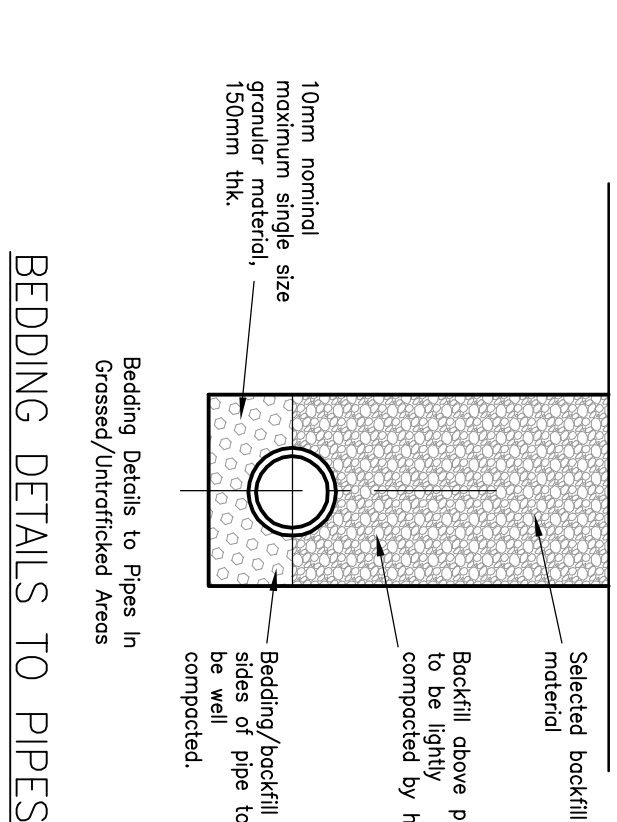
CPV ENGINEERING PIPEWORK SOLUTIONS
WOODINGTON MILL, WOODINGTON ROAD
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CONTACT DETAILS

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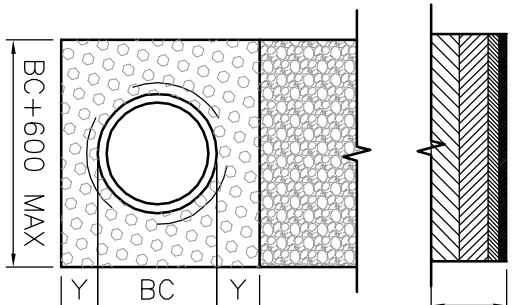
SYSTEM SPECIFICATION:

CPV – ZURN/FLOWAY
CHEMICAL DRAINAGE PIPE SYSTEM INCL. ASSOCIATED COUPLINGS, MANHOLES & ACCESS CHAMBERS OR CONCRETE PROTECTIVE LINER WHERE APPROPRIATE



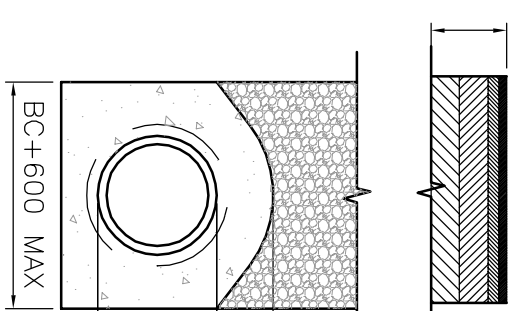
GRANULAR BED AND SURROUND CLASS 'S'

WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1200mm OR GREATER



CONCRETE BED AND SURROUND CLASS 'Z'

WHERE DEPTH OF COVER TO PIPE SOFFIT IS LESS THAN 1200mm



KEY

TYPE 1 SUB BASE MATERIAL BACKFILL TO FORMATION LEVEL

SINGLE SIZE GRANULAR MATERIAL

GEN3 CONCRETE BED AND SURROUND

DN = NOMINAL INTERNAL DIAMETER OF PIPE

BS = OUTSIDE DIAMETER OF PIPE

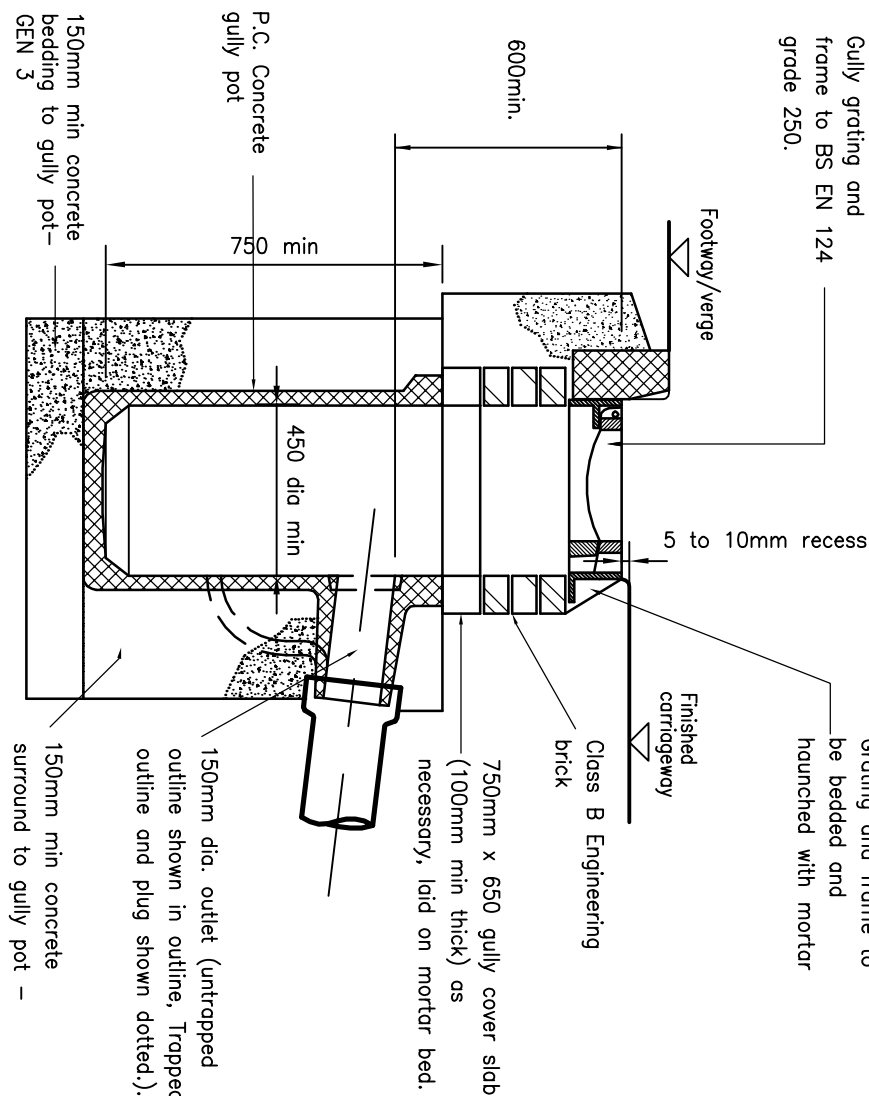
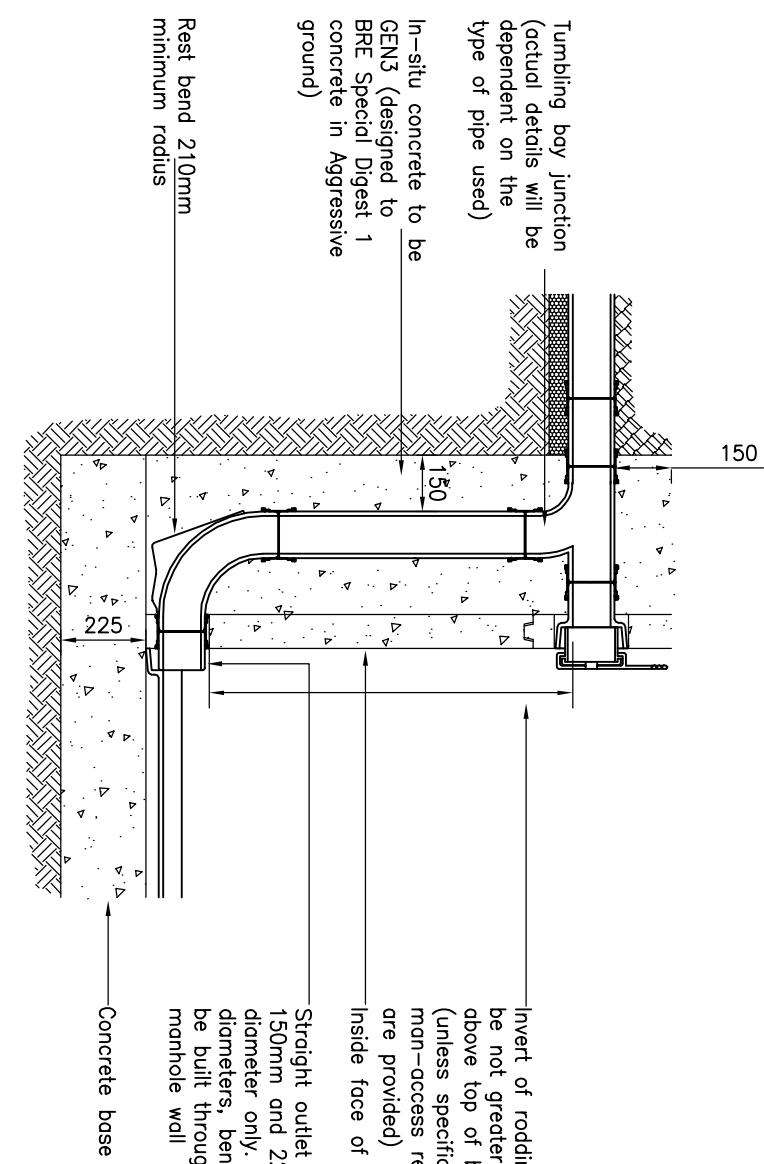
(i) Y=BC/6, WITH MIN 100 UNDER BARRELS (50 FOR SLEEVE JOINTED) AND MIN 50 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH MAX OF 400.

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH A MAX OF 400.

DIMENSION X			
CLASS	MACHINE DUG UNIFORM SOIL	ROCK OR MIXED SOILS	
S	NOTE (i)	NOTE (ii)	
Z	NOTE (ii)	NOTE (ii)	

TYPICAL BACKDROP CONNECTION DETAIL

SCALE NIS



PRELIMINARY

DRAWING TITLE
Drainage Details 1 of 2

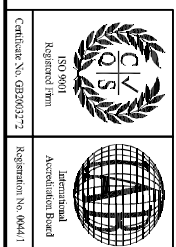
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Consulting Civil & Structural Engineers



REV	DATE	DESCRIPTION	BY
SHEET SIZE A1			
CLIENT			

TYPICAL SECTION THROUGH ROAD GULLY

CHECKED BY	AP	SCALE	As Shown
PROJECT NO	14150	DRAWING NO	501
REVISION	~		