

Y VALUE: HARD SPOTS/IRREGULAR TRENCH BOTTOM BC/4
(200mm MIN), EVEN TRENCH BOTTOM BC/6 (100mm MIN)
BC = OUTSIDE PIPE DIAMETER



STANDARD TUMBLING BAY JUNCTION

CARE TO BE TAKEN TO MAINTAIN FLEXIBILITY OF JOINTS

ADDITIONAL ROCKER PIPES MAY BE NECESSARY FOR TRANSITION OF PIPE GRADIENT TO VERTICAL DOWNPIPE.

BACKDROP PIPE SET VERTICAL

CONSTRUCTION JOINT

CONCRETE SURROUND TO BACKDROP TO BE CAST INTEGRAL WITH MH SURROUND

SHORT RADIUS 90 DEGREE BEND

150

150

PRECAST CONCRETE MANHOLE SECTION

SPLASH GUARD/PIPE STOPPER IN RODDING EYE IF REQUESTED BY THE UNDERTAKER/COUNCIL

INVERT OF RODDING EYE TO BE NOT GREATER THAN 1.5m ABOVE TOP OF BENCHING

225mm MIN GEN3/ST4 INSITU CONCRETE SURROUND (DESIGNED TO BRE SPECIAL DIGEST 1 CONCRETE IN AGGRESSIVE GROUND)

NOTE : WHERE THE DROP IS NOT EXCESSIVE A 45° DROP PIPE MAY BE USED

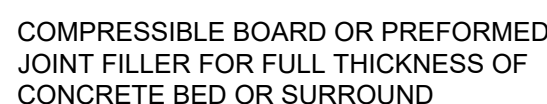
THE CONNECTION AT THE BOTTOM OF THE BACKDROP IS TO BE MADE AT SOFFIT LEVEL IN MANHOLES MAX. PIPE SIZE 825mm AND AT SPRINGING LEVEL IN MANHOLES PIPE SIZE 900 TO 1500mm

VERTICAL RODDING EYE MAY BE REQUIRED IN SITUATIONS WHERE BLOCKAGES ARE HIGH RISK. THE TUMBLING BAY SHALL BE BUILT INTO THE MANHOLE CHAMBER BELOW ANY REUCING SLAB

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BS EN 13242, COARSE AGGREGATE (CLAUSE 4.3.2)		
CATEGORY FOR GENERAL GRADING REQUIREMENTS	Gc80-20	
CATEGORY FOR TOLERANCES AT MID-SIZE SIEVES	GTnr (NO REQUIREMENTS)	
CATEGORY PF MAXIMUM VALUES OF FINES CONTENTS	GRAVEL - F1.5 CRUSHED ROCK, RECYCLED AGGREGATE - F4	
NOMINAL PIPE DIAMETER, mm	AGGREGATE SIZE, mm	
	GRADED	SINGLE SIZED
NOT EXCEEDING 140	-	4/10
EXCEEDING 140 BUT NOT EXCEEDING 400	2/14 or 4/20	4/10, 6/14 or 10/20
EXCEEDING 400	2/14, 4/20 or 4/40	4/10, 6/14, 10/20 or 20/40

FOR RIGID PIPES THE BEDDING SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAX SIZE OF 10mm FOR 100mm PIPES; 14mm FOR 150mm PIPES; 20mm FOR 225mm TO 600mm PIPES; 40mm FOR OVER 600mm PIPES



FLEXIBLE PIPE JOINT

(BITUMEN IMPREGNATED INSULATING BOARD TO BS EN 622-1 AND BS EN 622-4)

(AT EACH PIPE JOINT)



NOTE: COVER SET AT SSL. ARCHITECT TO DETAIL INTERFACE WITH PROPOSED FLOOR FINISH



COVER AND FRAMES SHALL COMPLY WITH BS EN 124, BS7903 AND CLAUSE E2.32. 600x600 / 450x450 CLEAR OPENING

ACCESS OPENING RESTRICTED TO 350 MM DIAMETER OR 300 MM X 300 MM IF DEPTH OF CHAMBER TO INVERT IS > 1 M

MINIMUM 1 COURSE OF CLASS B ENGINEERING BRICKS OR PCC SEATING RINGS

TYPE 1 SUB BASE (THICKNESS VARIES)

INSITU PIPE CONNECTOR WAVIN NE950/ NE960

450mm OR 600mm INTERNAL DIAMETER

COMPACTED GRANULAR BEDDING MATERIAL FOR LOAD CLASS B125 OR GEN3/S14 CONCRETE SURROUND FOR LOAD CLASS D400 (VARIES 150mm MIN)

BASE UNIT TO HAVE ALL CONNECTIONS WITH SOFFIT LEVELS SET NO LOWER THAN THAT OF THE MAIN PIPE

MORTAR BEDDING & HAUNCHING TO COVER AND FRAME TO CLAUSE E6.7

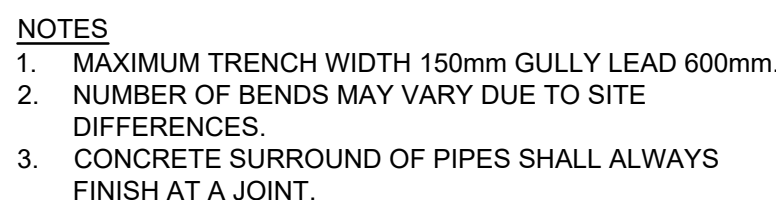
SURFACE COURSE

BINDER COURSE

BASE COURSE

PRECAST CONCRETE SLAB OR IN-SITU CONCRETE SLAB TO SUPPORT COVER AND FRAME

SCALE - NTS



TYPICAL ROAD GULLY DETAIL

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P03	31.07.25	ROAD GULLY DETAIL UPDATED	ARJ	PAT
P02	16.06.25	DRAFT STAGE 4 ISSUE	ARJ	PAT
P01	27.09.24	FIRST ISSUE	ARJ	PAT
REV.	DATE	DETAILS	DRN.	CH

RIBA STAGE

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DRAWN ARJ	DATE SEPT 24	SCALES AS SHOWN
CHECKED MN	DATE SEPT 24	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
APPRVD. MN	DATE SEPT 24	EMAIL FOR DRAWINGS info@roccconsulting.com

CLIENT

MANCHESTER AIRPORT GROUP

PROJECT TITLE

PLOT H5 PREMIER INN
AIRPORT CITY

DRAWING TITLE

DRAINAGE DETAILS
SHEET 2

DRAWING No.	REV.
H5PI/ROC/PI/XX/DR/C/0502	P03

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