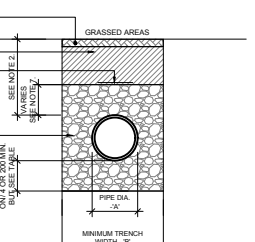


1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:
 - A) GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS: DEPTH NOT LESS THAN 0.1M. THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY. SHALLOW PIPES OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.
 - B) DRIVEWAYS, PARKING AREAS AND AREAS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 3.5 TONNES: DEPTH NOT LESS THAN 0.2M.
 - C) DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G. NEW DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 3.5 TONNES: DEPTH NOT LESS THAN 0.3M.
 - D) DEPTHS OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED ABOVE.
 - E) AGRICULTURAL LAND AND PUBLIC OPEN SPACE: DEPTH NOT LESS THAN 0.3M.
 - F) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 3.5 TONNES: DEPTH NOT LESS THAN 1.2M. THE MINIMUM DEPTH OF COVER NOT ACHIEVED BY THE PIPES ARE TO BE FULLY ENCASED IN CONCRETE AS PER DETAIL B2.
3. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
4. DEPTH OF TRENCH BACKFILL TO BE TAKEN IN CHARGE BY DUBLIN CITY COUNCIL SHALL BE TO DETAIL B1.
5. PIPE BEDDING SHALL COMPLY WITH BS 4:202 AND BS 4:201 GRANULAR MATERIAL SHALL BE 14mm TO 20mm AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 12620 AND EN 12620.2. HANNUCH & SURROUND SHALL BE 150mm TO 200mm AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 12620 AND EN 12620.2. CONCRETE BED AND HAUNCH REQUIRED IN AREAS TO BE TAKEN IN CHARGE BY DUBLIN CITY COUNCIL SHALL BE TO DETAIL B2.
6. IN SOFT GROUND CONDITIONS (C_{BR} < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRENCH BACKFILL SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY SPECIAL PIPE SURROUND ARRANGEMENTS, INCLUDING PLUG ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY THE EMPLOYERS REPRESENTATIVE BEFORE ADVANCING WITH THE WORKS.
7. IN GREEN FIELD AREAS, TYPE B BACKFILL SELECTED EXCAVATED MATERIAL WILL BE ALLOWED ABOVE THE USE HANNUCH GRANULAR MATERIAL IN THE CASE OF RSD PIPES. A GRANULAR SURROUND OF A MINIMUM DEPTH OF 150mm ABOVE THE CROWN OF THE PIPE IS REQUIRED FOR FLEXIBLE PIPES, AND TYPE B MATERIAL MAY BE USED AS BACKFILL ABOVE THIS. ALL AREAS MANDATED IN GREEN FIELD AREAS SHALL HAVE A MINIMUM COVER OF 300mm OF GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE.
8. PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS, OR ANY HARD OBJECTS AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRENCH BACKFILL SPECIFICATION. THE GRANULAR MATERIAL SHALL BE LAD ABOVE THIS VOID BACKFILL MATERIAL.
9. NON DEGRADABLE MARKER TAPES SHOULD BE INSTALLED AT TOP OF PIPE BEDDING LAYER FOR PIPE SIZES 60mm-300mm. SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DESIGN, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

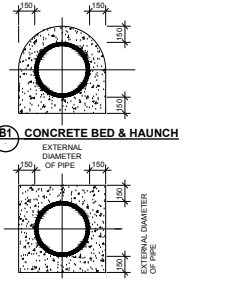
A1 CROSS SECTION IN PAVED AREAS



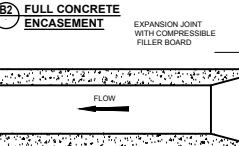
A2 CROSS SECTION IN GRASSED AREAS / SOFT LANDSCAPING

PIPE DIAMETER A (mm)	TRENCH WIDTH B (mm)
80 RISING MAIN	SEE NOTE 10.
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

A TRENCH BACKFILL & BEDDING

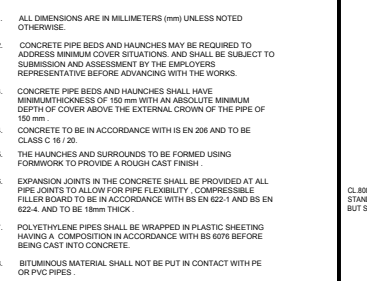


B1 CONCRETE BED & HAUNCH

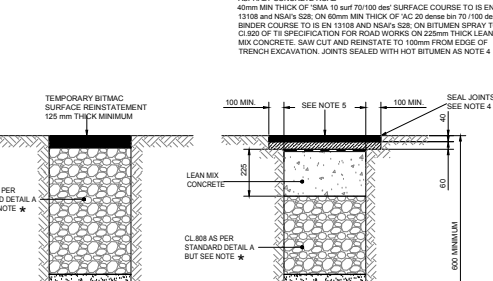


B2 FULL CONCRETE ENCASEMENT

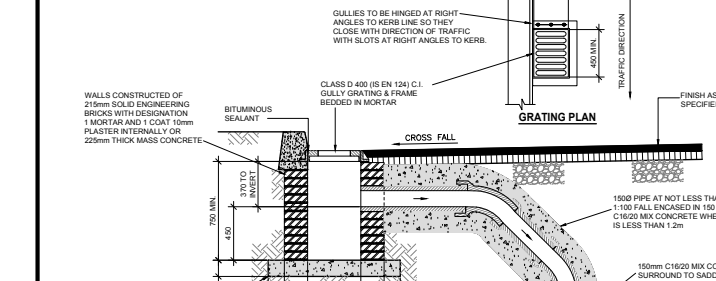
B CONCRETE HAUNCH, BED & SURROUND



D REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD



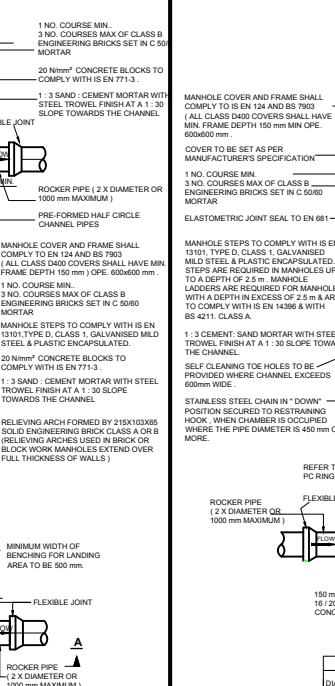
E TYPICAL SECTION THROUGH ROAD GULLY



E TYPICAL SECTION THROUGH ROAD GULLY

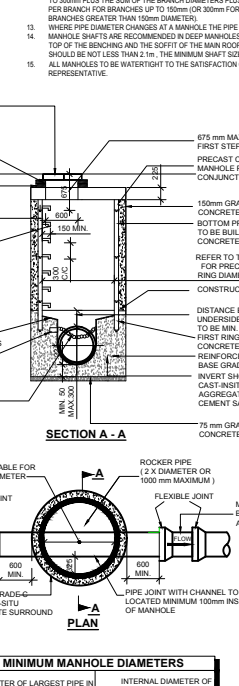
1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
2. CONCRETE PIPE BEDS AND HAUNCHES MAY BE REQUIRED TO ADDRESS MINIMUM COVER SITUATIONS AND SHALL BE SUBJECT TO SUBMISSION AND ASSESSMENT BY THE EMPLOYERS REPRESENTATIVE BEFORE ADVANCING WITH THE WORKS.
3. CONCRETE PIPE BEDS AND HAUNCHES SHALL HAVE MINIMUM THICKNESS OF 150mm WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE OF 150mm
4. CONCRETE TO BE IN ACCORDANCE WITH BS EN 206 AND TO BE CLASS C 15/20
5. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORMWORK TO PROVIDE A ROUGH CAST FINISH.
6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL JOINTS TO ALLOW FOR PIPE FLEXIBILITY, COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 621-1 AND BS 621-2
7. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6075 BEFORE BEING CAST INTO CONCRETE.
8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE
2. SOLID COVERWORK TO BE OF HIGH STRENGTH (20 N/mm² TO BS EN 1171)
3. MAXIMUM DEPTH OF BLOCK WORK MANHOLE IS 2.0m UNLESS APPROVED OTHERWISE
4. IF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH USE WILL REQUIRE DETAILED STRUCTURAL DESIGN AND WRITTEN APPROVAL FROM THE EMPLOYERS REPRESENTATIVE
5. WALLS TO BE FINISHED INTERNALLY
6. FOR FULL MANHOLES PROVIDE INTERNAL LINING OF ENGINEERING BRICK TO BS EN 771-1 TO A HEIGHT OF 1.0 ABOVE BENCHING. ENGINEERING BRICKS TO BE BONDING TO BLOCK WORK USING ENGLISH GARDEN WALL BOND
7. STRUCTURAL DESIGN AND CALCULATION OF MANHOLES SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE EMPLOYERS REPRESENTATIVE FOR REVIEW
8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM THE EMPLOYERS REPRESENTATIVE
9. ALL CHAMBERS TO BE CHECKED FOR UP LIFT BY THE CONTRACTOR BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLUTATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM THE EMPLOYERS REPRESENTATIVE
10. ALL CONCRETE TO BE IN ACCORDANCE WITH BS EN 206:2013
11. BRANCH PIPES INTO MANHOLES BENCHING TO BE SHARED SO AS TO GUIDE THE FLOW IN THE FLOW DIRECTION. THE MINIMUM LENGTH OF THE MANHOLE BASED ON THE SIZE WITH THE GREATEST NUMBER OF BRANCHES UP TO 300mm PLUS THE SUM OF THE BRANCH DIAMETERS PLUS 300mm PER BRANCH FOR BRANCHES UP TO 150mm OR 300mm FOR BRANCHES GREATER THAN 150mm DIAMETER.
12. THE PIPE DIAMETER CHANGES AT A MANHOLE THE PIPE CROWN ARE TO LIE UP ALL MANHOLES TO BE WATER TIGHT TO THE SATISFACTION OF THE EMPLOYERS REPRESENTATIVE



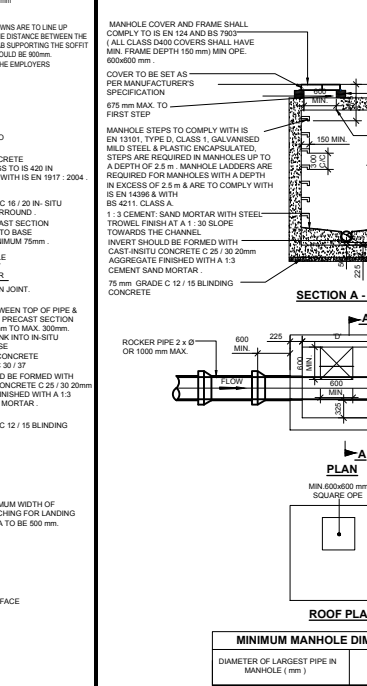
F BLOCKWORK MANHOLE < 450mm DIAMETER & DEPTH TO INVERT < 2m

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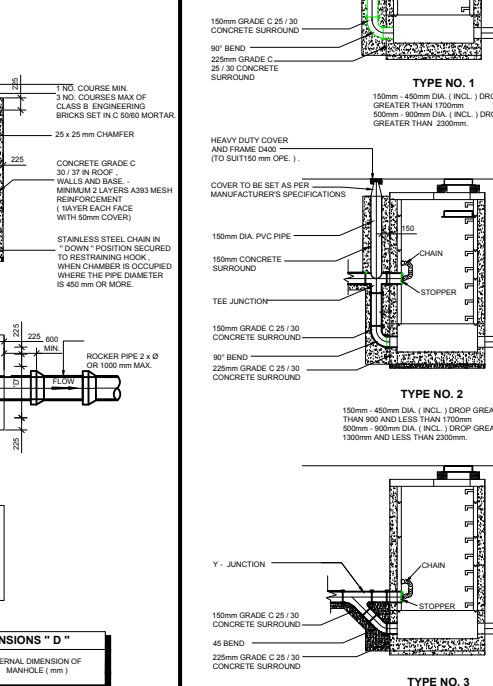
G PRE-CAST CONCRETE MANHOLE

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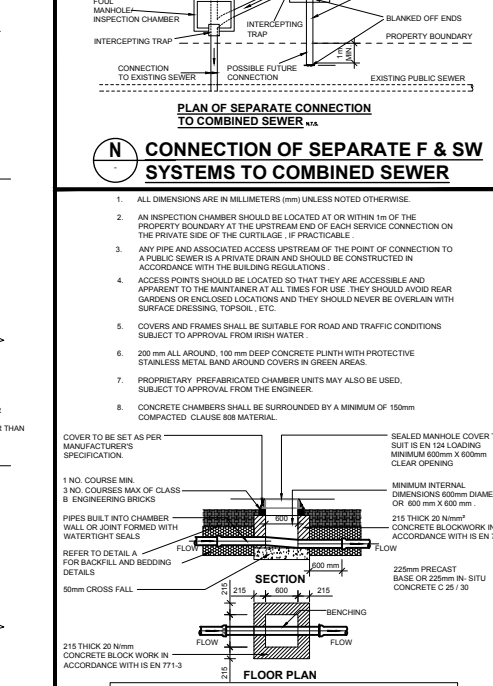
H IN-SITU CONCRETE MANHOLE

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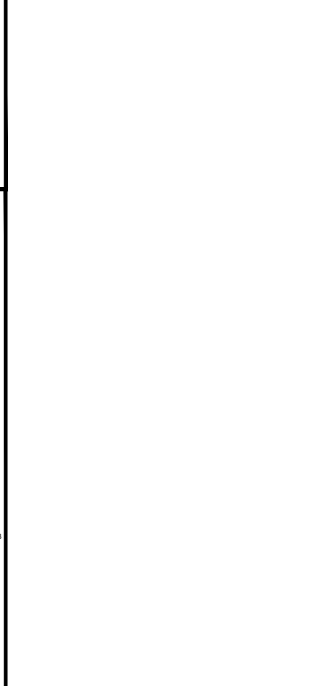
L BACKDROP MANHOLE

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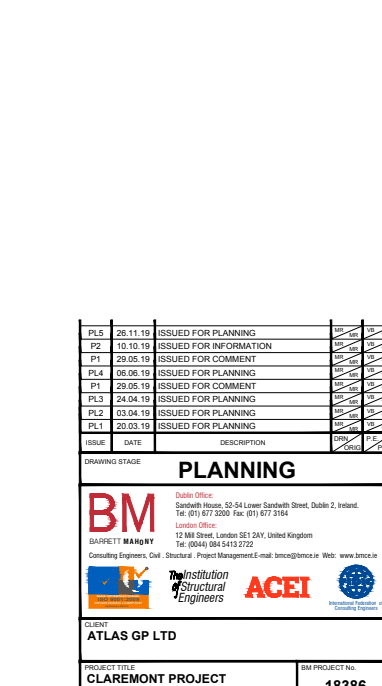
M INSPECTION CHAMBER (BLOCKWORK CONSTRUCTION)

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N INTERCEPTION TRAP DETAIL

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N CONNECTION OF SEPARATE F & S SYSTEMS TO COMBINED SEWER

DRAWING STAGE	DATE	DESCRIPTION
PL5	25.11.19	ISSUED FOR PLANNING
PL2	10.10.19	ISSUED FOR INFORMATION
PL1	29.05.19	ISSUED FOR COMMENT
PL4	08.08.19	ISSUED FOR PLANNING
PL1	29.05.19	ISSUED FOR COMMENT
PL3	24.04.19	ISSUED FOR PLANNING
PL1	03.04.19	ISSUED FOR PLANNING
PL1	20.03.19	ISSUED FOR PLANNING

DATE	DESCRIPTION
25.11.19	ISSUED FOR PLANNING
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08.08.19	ISSUED FOR PLANNING
29.05.19	ISSUED FOR COMMENT
24.04.19	ISSUED FOR PLANNING
03.04.19	ISSUED FOR PLANNING
20.03.19	ISSUED FOR PLANNING

PLANNING

BM Barrymore
12 Mill Street, London SE1 2JY, United Kingdom
Tel: 0203 5814323

ACET Accredited Construction Engineers Technicians

ATLAS GP LTD

CLAREMONT PROJECT BM PROJECT NO: 18386

STANDARD DRAINAGE DETAILS

PPT-BMD-XX-ZZ-DR-C-1200 PL5