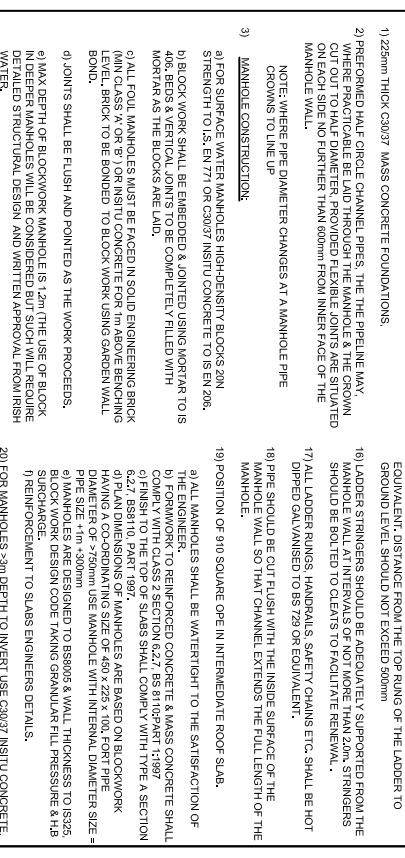
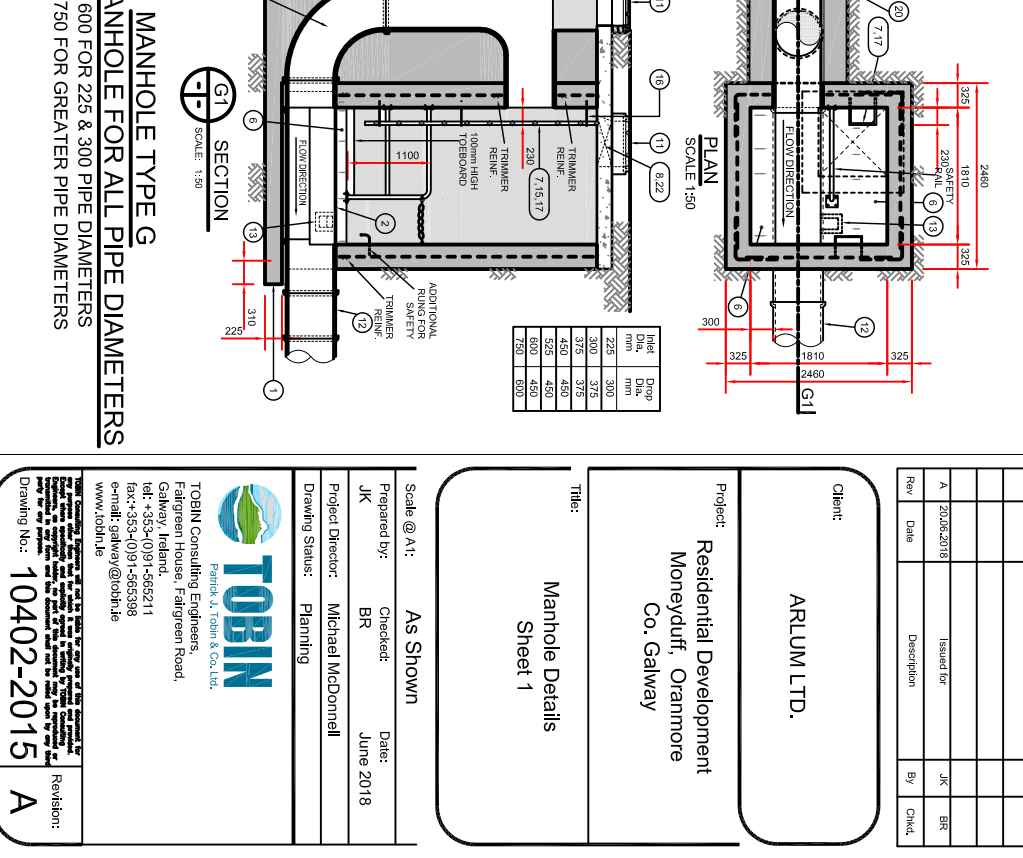


INLET Ø mm	DEPTH (max) mm
225	600
300	600
375	750
450	750
525	750
600	750
750	750

WHEN THE DROP IS GREATER THAN THE MAX VALUE SHOWN USE BACKDROP RAMP MANHOLE



- NOTES:**
- 1) 225mm THICK C30/37 MASS CONCRETE FOUNDATIONS.
 - 2) PREPARED HALF CIRCLE CHANNEL PIPES. THE PRELIME MAY CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 800mm FROM INNER FACE OF THE MANHOLE WALL.
 - 3) MANHOLE CONSTRUCTION:
 - a) FOR SURFACE WATER MANHOLES HIGH-DENSITY BLOCKS 200 LENGTH TO I.S. EN 771 OR C30/37 IN-SITU CONCRETE TO IS EN 206.
 - b) BLOCKS SHALL BE EMBEDDED & JOINTED USING MORTAR TO IS 406. BEDS & VERTICAL JOINTS TO BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID.
 - c) ALL JOINTS SHALL BE FACED TO BLOCK WORK USING GARDEN WALL LEVEL CLASS 'A' OR 'B' FOR MORTAR.
 - d) ALL JOINTS SHALL BE FACED TO BLOCK WORK USING GARDEN WALL LEVEL.
 - e) JOINTS SHALL BE FLUSH AND POINTED AS THE WORK PROCEEDS.
 - f) MAX DEPTH OF BLOCKWORK MANHOLE IS 1.2m. THE USE OF BLOCK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH WILL REQUIRE DETAILED STRUCTURAL DESIGN AND WRITTEN APPROVAL FROM IRISH WATER.
 - 4) RELIEVING ARCH FORMED BY 215 X 103 X 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'B'. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL. BLOCKWORK IS TO BE FINISHED WITH PIPE GRADES PER SCHEDULE 19A EN 1996-1-1.
 - 5) BENCHING & PIPE SURROUND - C30/37 CONCRETE.
 - 6) BENCHING FINISHED IN SMOOTH MORTAR WITH SMOOTH TOWEL FINISH. AT 1 IN 30 SLOPE TOWARDS CHANNEL.
 - 7) STANDED RUNGS AT 300mm VERTICALLY & GALVANISED TO THE TEST VERSION OF BS 29 OR EQUIVALENT. NOTE IRONS ARE NOT ACCEPTABLE.
 - 8) 800mm SQUARE ONE IN ROOM.
 - 9) PRECAST R/C ROOF SLAB SHALL BE 200mm THICK CLASS C30/37 WITH 40mm COVER TO STEEL DESIGNED TO BS 8100 TO TAKE FULL TRAFFIC LOADING.
 - 10) 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS 'B' TO IS 91.1483 SET IN 0.50/60 MORTAR.
 - 11) CLASS DADO OR 600 MANHOLE COVER AND FRAME TO IS EN 124. 150mm DEEP FRAME FOR ROADS & 100mm DEEP FOR FOOTPATHS & GREEN AREAS. NON-SKOD DESIGN. CLOSED NETWORKS, MANUFACTURED FROM CLEAR OPENING COVER & FRAME COATED IN BITUMEN OR OTHER FRAME BEARING AREA SHALL BE DESIGNED TO PREVENT COVERS FROM MOVING. MANUFACTURERS INSTRUCTIONS TO BE FOLLOWED.
 - 12) SHORT LENGTH PIPE & PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 800mm FROM THE INNER FACE OF MANHOLE WALL.
 - 13) TOE HOLES OF 200mm MINIMUM DEPTH & GALVANISED SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 625mm & DEPTH TO INVERT > 3M FOR ACCESS TO INVERT.
 - 14) A STAINLESS STEEL CHAINS TO BE PROVIDED ON PIPES THAT EXCEED 450mmØ. COMPLYING WITH BS 442 PART 2 OR EQUIVALENT.
 - 15) WHEN THE DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED. INSTEAD OF RUNGS TO BS 4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65mm IN SECTIONS & RUNGS 25mm IN DIAMETER. FRAMED LADDERS MORTAR TO MANUFACTURERS INSTRUCTIONS.
 - 16) ALL MANHOLES SHALL BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C30/37 CONCRETE.
 - 17) ALL FROUL MANHOLES TO COMPLY WITH REQUIREMENTS OF IRISH WATER SUDWA/98 TO 13



Client: ARLUM LTD.

Project: Residential Development Moneyduff, Oranmore Co. Galway

Title: Manhole Details Sheet 1

Scale: As Shown

Prepared by: JK

Checked: BR

Date: June 2018

Project Director: Michael McDonnell

Drawing Status: Planning

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Drawing No.: 10402-2015

Revision: A