

- SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 OR EQUIVALENT. DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL SHOULD NOT EXCEED 500mm
- 16) LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL .
- 17) ALL LADDER RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIPPED GALVANISED TO BS 729 OR EQUIVALENT.
- 18) PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT CHANNEL EXTENDS THE FULL LENGTH OF THE MANHOLE
- 19) POSITION OF 910 SQUARE OPE IN INTERMEDIATE ROOF SLAB.
- a) ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER. b) FORMWORK TO REINFORCED CONCRETE & MASS CONCRETE SHALI COMPLY WITH CLASS 2 SECTION 6.2.7, BS 8110:PART 1:1997 c) FINISH TO THE TOP OF SLABS SHALL COMPLY WITH TYPE A SECTION 6.2.7, BS8110, PART 1997. d) PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK
- HAVING A CO-ORDINATING SIZE OF 450 x 225 x 100. FORT PIPE DIAMETER OF >750mm USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE +1m +300mm e) MANHOLES ARE DESIGNED TO BS8005 & WALL THICKNESS TO IS325, BLOCK WORK DESIGN CODE TAKING GRANULAR FILL PRESSURE & H.B
- SURCHARGE f) REINFORCEMENT TO SLABS ENGINEERS DETAILS.
- 20) FOR MANHOLES >3m DEPTH TO INVERT USE C30/37 INSITU CONCRETE REINFORCING MESH REF., A393 TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.
- 21) PRECAST MANHOLES, CHAMBER WALLS & COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 & IS 420:2004
- 22) MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS-ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC
- 23) FOR BEDDING & SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST OVER SLAB) & BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PREFORMED JOINTING STRAP
- 24) PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C16/20 CONCRETE.
- 25) ALL FOUL MANHOLES TO COMPLY WITH REQUIREMENTS OF IRISH WATER STD-WW-09 TO 13

NOTES:

- 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM
- THIS DRAWING. 2. ALL DRAWINGS TO BE CHECKED BY THE
- CONTRACTOR ON SITE
- 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
- 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
- 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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Project:

Title:

Comhairle Chontae na Gaillimhe **Galway County Council**

Loughrea Fire Station

Standard Manhole Details Sheet 1 of 2

As Shown Scale @ A1: Prepared by: Checked: Date: Apr 2022 SB Project Director: Brian Carroll Drawing Status: PLANNING CONSULTING ENGINEER TOBIN Consulting Engineers, Fairgreen House, Fairgreen Road, Galway, Ireland. tel: +353-(0)91-565211 fax:+353-(0)91-565398 e-mail: galway@tobin.ie www.tobin.ie RIN Consulting Engineers will not be liable for any use of this document for any purp that for which it was originally prepared and provided. Except where specifically and icitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this Drawing No.: 11315-2006 PO