

NOTE: NOTE 41.5mg, REDUCING SLAB NOT TO BE USED & PCC RINGS TO CONTINUE UP TO COVER SLAB)

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE
- PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS  $5911\text{-}PART\ 3.$
- THICKER MANHOLE BASES REQUIRED FOR SEWERS IN EXCESS OF 3M DEEP WHERE THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE.
- APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING WITH BS 5911-PART 4 2002.

STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW.

ROCKER PIPE 500-700MM LONG FOR PIPE UP TO 450mmØ 750-1000mm LONG OTHERWISE 500

225 MIN

150mm CONCRETE — ENCASEMENT GRADE C16/20 DMAX 20

PRECAST CONCRETE RING SEGMENTS TO EN 5911

- MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW.
- MANHOLE ROOFS SHALL CONSIST OF A RE-INFORCED CONCRETE SLAB OF IN-STIU CONCRETE, C3037, WITH A MINIMUM THICKNESS OF 225mm DESIGNED TO CARRY ALL LURE AND DEAD LOADS. A TERNATIVELY APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO IRISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4: 2002.
- COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER.
- 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.

OPE IN CONCRETE COVER SLAB

- ALL CHAMBERS TO BE CHECKED FOR UPLIET BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD MAIT FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH
- ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206: 2013.
- ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
- EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MAYAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT TOURISM & SPORT, OR TRANSPORT I RELAND REQUIREMENTS.

DIAMETER

INTERNAL EXTERNAL DIMENSIONS INCL CONC SURROUND 1200mm RING 1680mm

RC & PCC <3m

PCC >3m

DEPTH INTERNAL INTERN

CIRCULAR MANHOLES

TYPICAL STRAIGHT THROUGH PRECAST CONCRETE MANHOLE

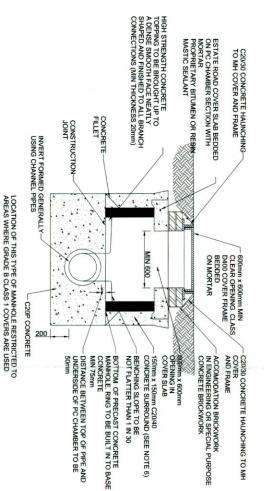
MANHOLE LADDER RIVINGS TO EN 4211
AND EN ISO 1461 EMBEDDED IN WALL
300mm LONG @ 300mm c/c
(PLASTIC ENCAPSULATED STEPS
PREFERRED)

1350mmØ RING 1500mmØ RING 1500mmØ RING 1500mmØ RING 1500mmØ RING 1800mmØ RING 2100mmØ RING

RC & PCC RC & PCC PCC PCC PCC PCC

PPPPP

- IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 8m DEEP, SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
- PROPRIETARY WATERTIGHT PCC MAWHOLE RING SYSTEMS WITH A WALL THICKNESS > 125mm, & A WATER TIGHT JOINT SEALUNG SYSTEM, MAY BE USED WITHOUT CONCRETE SURROUND, SUBJECT TO THE GROUND WATER LEVEL AT THE MAWHOLE BEING LOW, & SUBJECT TO REVIEW BY IRISH WATER.



6. FOUL SEWERS TO BE THERMOPLASTIC STRUCTURED WALL PIPES (COMPLYING WITH THE PROVISION OF IS EN 43478 AND WIS 4-35-01 COOO AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF

5. ALL FOUL DRAINAGE WORKS TO BE IN ACCORDANCE WITH HIGH WATERS' CODE OF PRACTICE FOR WASTEWATER SUPPLY AND WASTEWATER INFRASTRUCTURE STANDARD DETAILS.

7. WATERMAIN INSTALLATION AND ALL WATER SUPPLY WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATERS CODE OF PRACTICE FOR WATER SUPPLY AND WATER INFRASTRUCTURE STANDARD DETAILS.

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES.
OMNISSIONS AND ERRODES ON DRAWINGS SHALL BE
BROUGHT TO THE ENGINEERS ATTENTION MACEDIATELY.
ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

Notes:

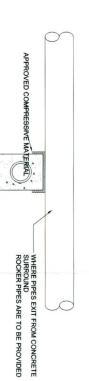
4. FOR GENERAL NOTES REFER TO DRAWING.

TYPICAL PRECAST SHALLOW MANHOLE DETAIL

9. WATERMAIN SERVICE CONNECTION PIPES TO BE HDPE (PE-80) MATERIAL WITH SDR-17 RATING).

. WATERMAINS TO BE TYPE HPPE, PE-100, SDR-17 RATED AND SHALL CONFORM TO IS EN 12201 (PART 1, PART 2, 9 PART 3).

SCALE 1:20/1:40

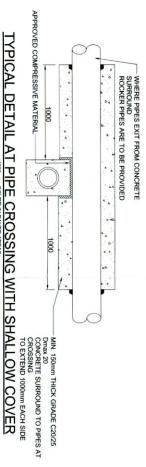


## TYPICAL DETAIL AT PIPE CROSSING **3 WITH ADEQUATE**

COVER COVER IN PAVED AREAS

900mm COVER IN LANDSCAPED AREAS

(FOR GAPS BETWEEN PIPES OF LESS THAN 300mm SCALE 1:20 /1:40



## TYPICAL DETAIL AT PIPE CROSSING WITH SHALLOW COVER

<900mm COVER IN LANDSCAPED AREAS

(FOR GAPS BETWEEN PIPES OF LESS THAN 300m SCALE 1:20 / 1:40



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LARKFIELD HOUSE TYPICAL DETAILS SHEET 2 of 3

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