

MIN AREA OF BEARING FACE OF

UST BLOCK				
FIRE MAIN	WATER MAINS			
2.4m²	1.3m²			
3.3m²	1.75m²			
1.8m²	1.0m²			
0.9m²	0.5m²			
0.6m²	0.3m²			

FOR HORIZONTAL BENDS, VERTICAL HEIGHT IS TO BE

ME OF CONCRETE					
UST BLOCK					
FIRE	WATER				
MAIN	MAINS				
1.8m³	1.0m³				
3.3m³	1.1m³				
1.5m³	0.6m³				
1.2m³	0.6m³				
1.2m³	0.6m³				

- TOPSOIL SELECTED AS DUG MATERIAL (UNIFORM READILY COMPACTABLE

MATERIAL FREE FROM: CLAY LUMPS RETAINED ON 75mm SIEVE; STONES RETAINED ON 37.5mm SIEVE; TREE ROOTS; BUILDING RUBBISH OR FROZEN SOIL WARNING TAPE TO BE PROVIDED AT

PIPE COMPACTED STONE FILL (CLAUSE 804) TYPE B GRANULAR BEDDING CAREFULLY COMPACTED (SEE NOTE 1)

300MM ABOVE



1000mm EACH SIDE

GENERAL NOTES:-

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS & ENGINEERS DRAWINGS & SPECIFICATIONS.
- 2. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. ALL DISCREPANCIES TO BE NOTIFIED, IN WRITING TO ENGINEERS & ARCHITECTS FOR RESOLUTION.
- 4. ALL DIMENSIONS ON DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 5. FOR DETAILS AND SETTING OUT OF RWP. SVP. WVP & ALL OPENINGS SEE THE RELEVANT ARCHITECTS DRAWINGS.
- FOR RADON BARRIER, D.P.C. & INSULATION DETAILS REFER TO ARCHITECTS DRAWINGS

MANHOLE NOTES:-

225mm THICK CL20/20 MASS CONCRETE FOUNDATIONS.

PREFORMED HALF CIRCLE CHANNEL PIPES. THE PIPELINE MAY WHERE PRACTICABLE, BE LAID THROUGH THE MANHOLE AND THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM THE INNER FACE OF THE MANHOLE WALL.

FOR SURFACE WATER MANHOLES HIGH DENSITY BLOCKS TO CL.S10 OF I.S.20 PART 1: 1987 OR CL.30/20 IN-SITU CONCRETE. BLOCKWORK SHALL BE BEDDED AND JOINTED USING MORTAR DESIGNATION THREE TO I.S.406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN CLASS A OR B). OR IN-SITU CONCRETE FOR 1m ABOVE BENCHING LEVEL BRICK TO BE BONDED TO BLOCKWORK USING ENGLISH GARDEN WALL BOND.

RELIVING ARCH FORMED BY 215x103x65 BRICK AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCKWORK MANHOLES TO EXTEND OVER FULL THICKNESS OF WALL. DOUBLE ARCHES TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm.

BENCHING AND PIPE CHANNEL PIPE SURROUND -CL.20/20 CONCRETE.

BENCHING FINISHED IN 2:1 SAND-CEMENT MORTAR WITH SMOOTH TROWEL FINISH, AT 1 IN 30 SLOPE TOWARDS CHANNEL.

STANDARD RUNGS AT 300c/c VERTICALLY AND GALVANISED TO BS729

600mm SQUARE OPE. IN ROOF SLAB.

200thk. PRECAST R.C. ROOF SLAB IN CL.30/20 CONCRETE WITH 1No. A393 MESH. COVER TO STEEL SHALL BE 40mm.

1 TO 2 No. ENGINEERING BRICKS CLASS B TO I.S.91: 1983 SET IN 1:3 (CEMENT:SAND:MORTAR)

CLASS D400 MANHOLE COVER AND FRAME TO IS/EN 124. 150mm DEEP FRAME FOR ROADS, 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN, CLOSED KEYWAYS. MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), 600x600 (OR 600 DIAM) CLEAR OPENING, COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE A MINIMUM MASS OF 140kg/m2, FRAME BEARING AREA SHALL BE 80,000mm2 MIN., FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURER'S CONSTRUCTIONS.

SHORT LENGTH PIPE, PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.

TOE HOLES OF 230mm MIN. DEPTH AND GALVANISED STEEL SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525 DIAMETER, AND DEPTH TO INVERT >3m FOR ACCESS TO INVERT.

SAFETY CHAIN TO BE PROVIDED IN MANHOLES >450mm. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON CALIBRATED CHAIN TYPE 1, COMPLYING WITH BS: 4942 Part

WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS, TO BS4211 EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTION AND RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS 4211.

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.

ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIP GALVANISED TO BS729.

Issue Register

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PL1	24/04/19	PLANNING ISSUE	MT	EJQ	MJP
No.	Date	Revision	Drawn	Checked	Approved
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PLANNING							
Client: KILKENNY COUNTY COUNCIL							
m lim	Project: LIBRARY AT MAYFAIR BUILDING KILKENNY						
	Drawing Title: PROPOSED SEWER & PIPE DETAILS						
Martin Peters Associates Consulting Engineers	Project No: 171029		Scale: 1:25@A1				
Ormonde Road Kilkenny	Drawing No: 171029/C/031		^{Rev:} PL1				
F: + 353 56 7702761 F: + 353 56 7790728 E: info@mpa.ie	Drawn: MT	Checked: EJQ	Date: 23/08/18				