

## PRE-CAST CONCRETE MANHOLE WITH CAST IN-SITU BASE NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 2. PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND IS 420.
- 3. THICKER MANHOLE BASES REQUIRED FOR SEWERS IN EXCESS OF 3m DEEP WHERE
- THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE. 4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING

CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING

- WITH ISEN 1719 AND IS 420. 5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE
- DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW. 6. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL
- DESIGN AND BE SUBJECT TO IRISH WATER REVIEW.
- 7. MANHOLE ROOFS SHALL CONSIST OF A RE-INFORCED CONCRETE SLAB OF IN-SITU CONCRETE, C30/37, WITH A MINIMUM THICKNESS OF 225mm DESIGNED TO CARRY ALL LIVE AND DEAD LOADS. ALTERNATIVELY, APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO IRISH WATER REVIEW AND
- COMPLIANCE WITH IS EN 1917. 8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER.
- 9. 200mm ALL AROUND x 100mm DEEP, C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH MILD STEEL
- REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS. 10. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES
- BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 : 2013.
- 12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- 13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.

IRELAND REQUIREMENTS.

- 14. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE
- 15. IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
- 16. PROPRIETARY WATERTIGHT PCC MANHOLE RING SYSTEMS WITH A WALL THICKNESS > 125mm, & A WATER TIGHT JOINT SEALING SYSTEM, MAY BE USED WITHOUT CONCRETE SURROUND, SUBJECT TO THE GROUND WATER LEVEL AT THE MANHOLE BEING LOW, & SUBJECT TO REVIEW BY IRISH
- 17. THE INTERNAL MANHOLE DIAMETERS SHOWN IN THE TABLE BELOW ARE MINIMUM DIMENSIONS AND WILL INCREASE DEPENDING ON THE NUMBER AND DIAMETER OF ADDITIONAL INLETS AND FINISHED WITH A 1:3 SAND/CEMENT FINISH TO SUIT FLOW OF INLETS AND OUTLET.

ROCKER PIPE LENGTH PIPE DIAMETER (mm) ROCKER PIPE LENGTH (mm) 150 TO 600 600 GREATER THAN 600 TO 750 \* 1000 GREATER THAN 750 \* 1250

\* SEWERS GREATER THAN 450mm Ø ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS. MANHOLE SIZE OF THESE CHAMBERS MAY BE REUIRED DUE TO MULTIPLE PIPES WITHIN

## PLANNING DRAWING. NOT FOR CONSTRUCTION. ALL LEVELS GIVEN ARE

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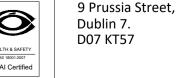
١	Rev No.	Date	Revision Note	Drn by	Chkd by	Rev No.	Date	Revision Note
	P01	23.09.22	SUITABLE FOR INFORMATION	ВС	МКо			
	P02	19.10.22	SUITABLE FOR STAGE APPROVAL	ВС	МКо			
	P03	24.02.23	SUITABLE FOR PLANNING	ВС	МКо			
	P04	23.03.23	PROJECT DETAILS UPDATED	ВС	МКо			

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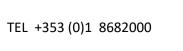


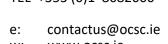
TO CONTINUE UP TO COVER SLAB)











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Client: ST. VINCENT'S HOSPITAL FAIRVIEW Project: ST. VINCENT'S HOSPITAL

**FAIRVIEW REDEVELOPMENT** STORM WATER STANDARD DETAILS SHEET 1 OF 7

Code |Originator| Zone | Level | Type | Role | Number | Status | Revision R517 · OCSC · XX · XX · DR · C · 0520 S4 P04 Date: 23/09/22Scale:1:15 @ A1 Drn by:BC Chkd by:MKo Aprvd by:AH