

MINIMUM MANHOLE DIAMETERS			
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU ROOF SLAB THICKNESS (mm)
LESS THAN 375	1200	160	225
375 TO 450	1350	160	225
500 TO 750	1500	170	225

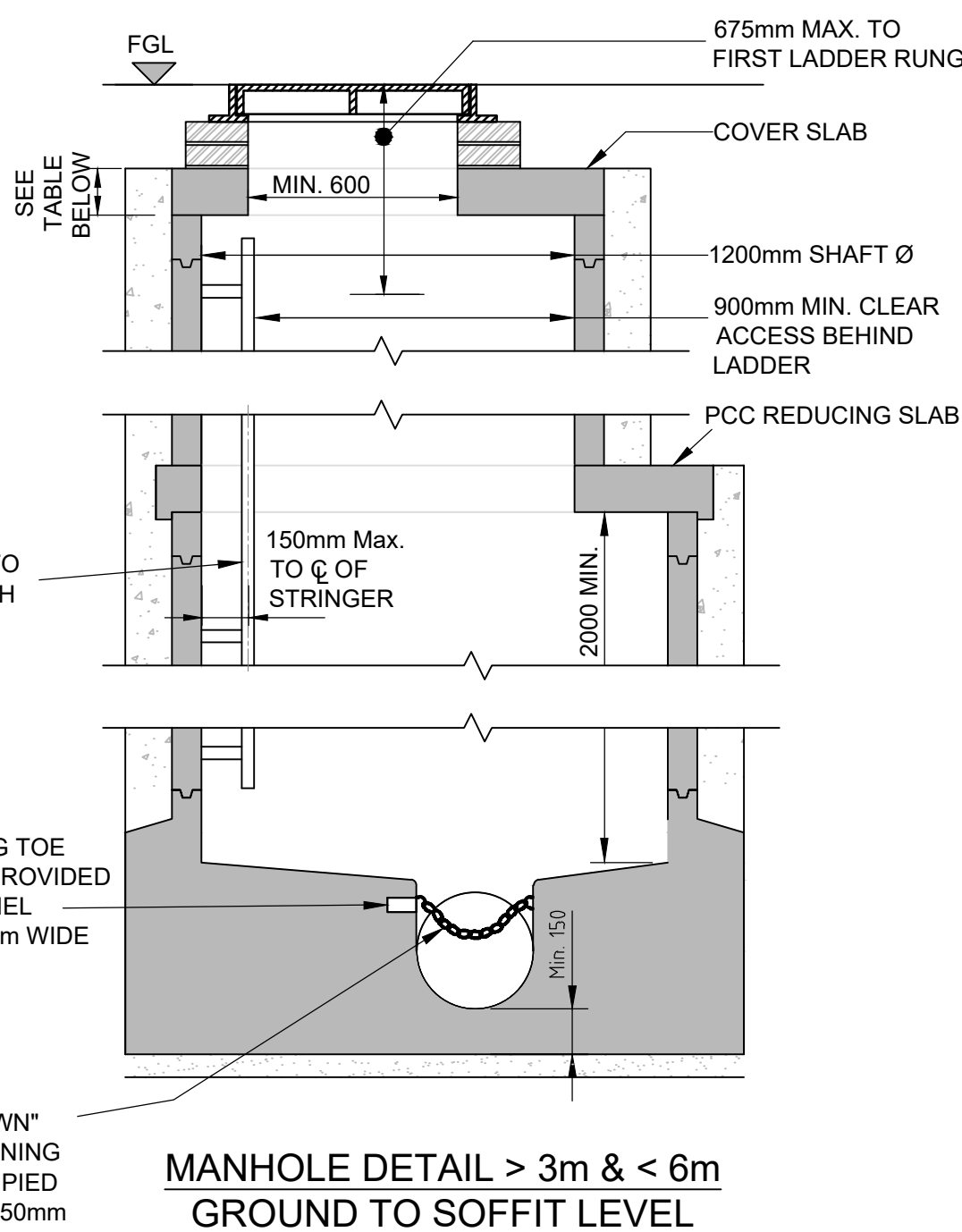
ROCKER PIPE LENGTH	
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	600
GREATER THAN 600 TO 750	1000
GREATER THAN 750	1250

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

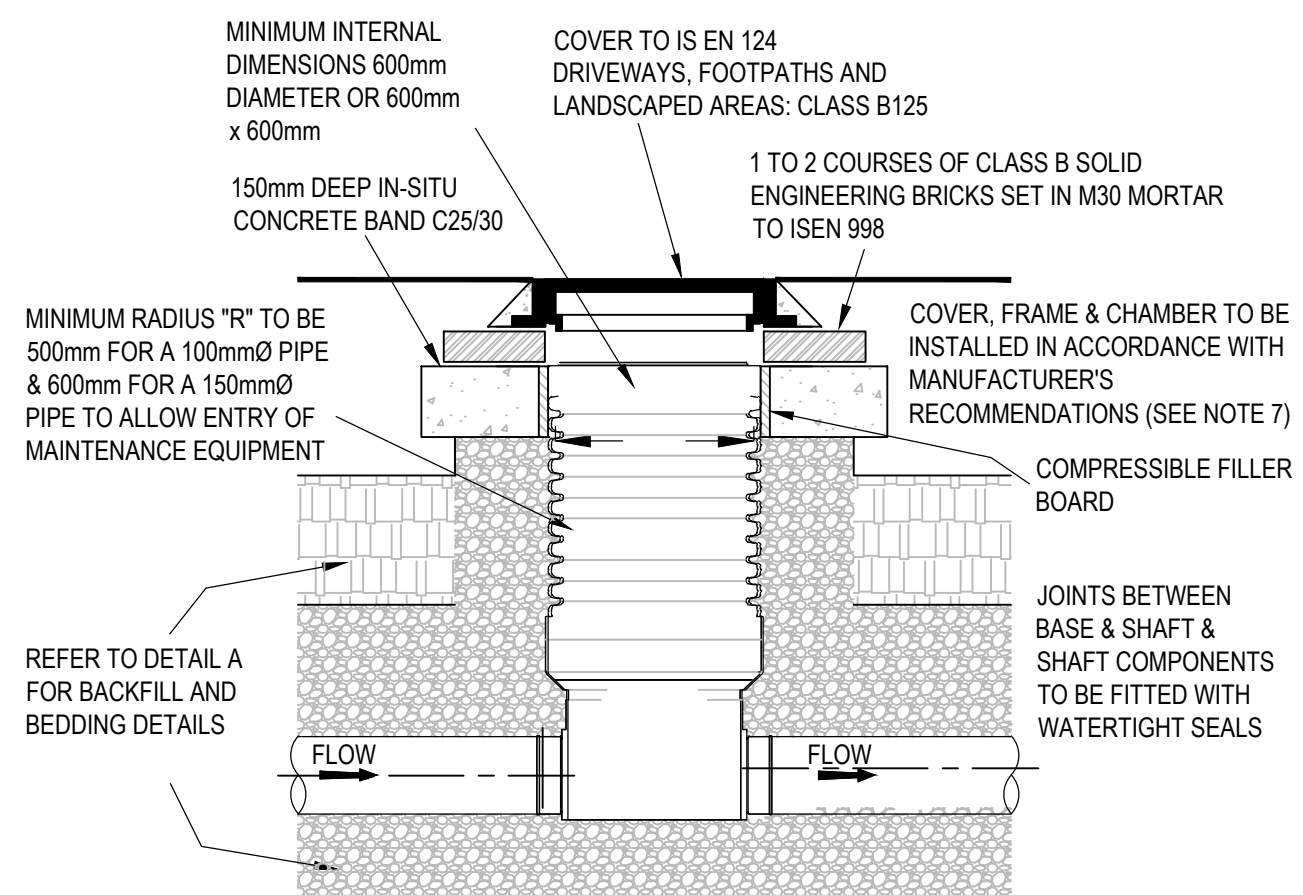
DETAIL C - PRECAST CONCRETE WASTEWATER
MANHOLE WITH PRECAST CONCRETE BASE

(NOT TO SCALE)

- 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. PRE-CAST CONCRETE BASE INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING WITH ISEN 1917 & IS 420.
4. IN SITUATIONS WHERE P.C.C. MANHOLE BASES HAVE REDUNDANT CHANNELS, THESE SHALL BE PLUGGED AND FILLED BY SCABBLING, AND INFILLED WITH GRADE C20/25 CONCRETE TO MATCH EXISTING BASE AND BENCHED TO SUIT FLOW WITHIN THE MANHOLE BASE..
5. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW.
6. PRE-CAST CONCRETE ROOF SLABS TO BE USED SUBJECT TO IRISH WATER REVIEW AND COMPLIANCE WITH IS 420.
7. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC LOADINGS. SUBJECT TO REVIEW BY IRISH WATER.
8. 200mm ALL AROUND 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.
9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE CONTRACTOR BASED ON GROUND CONDITIONS WITHIN THE SITE, SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY THE EMPLOYER.
10. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 : 2013.
11. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
12. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
13. 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 IRELAND REQUIREMENTS.
14. IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
15. PIPES TO HAVE WATER TIGHT PCV MANHOLE RING SYSTEMS WITH A WALL THICKNESS > 25mm, & 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 THE EMPLOYER.
16. 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.



(NOTE: ON MANHOLES $<1.5\text{m}\varnothing$, REDUCING SLAB NOT TO BE USED & PCC RINGS TO CONTINUE UP TO COVER SLAB)



SECTION

PROPRIETARY INSPECTION
CHAMBERS TO BE INSTALLED
IN ACCORDANCE WITH
MANUFACTURER'S
RECOMMENDATIONS

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. COVERS AND FRAMES TO BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS.
3. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.
4. CHAMBERS ARE TO BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL AS PER NOTE 3 ON FOUL WATER TRENCH BACKFILL AND BEDDING.
5. MINIMUM DEPTH FROM COVER LEVEL TO INVERT OF PIPE = 1.2 m.
INTERNAL DIMENSIONS GREATER THAN 600mm X 600mm OR 600mm Ø REQUIRED WHERE PIPE DEPTH EXCEEDS 1.2m.
6. PREFABRICATED UNITS ARE TO HAVE WATER TIGHT JOINTS AND MUST BE INTERLOCKING TO PREVENT LATERAL MOVEMENT OF INDIVIDUAL SECTIONS OF THE UNIT.

DETAIL D - PROPRIETARY INSPECTION CHAMBER
TO EN13598-2 (FLEXIBLE MATERIAL)

(NOT TO SCALE)

(MAXIMUM DEPTH FROM COVER
LEVEL TO SOFFIT OF PIPE: 1.2m)

PROJECT

Phase 1
Corrib Causeway
Dyke Road, Galway

Galway City Council

CONSULTANT

AECOM
BLOCK 6, GALWAY TECHNOLOGY PARK
PARKMORE
GALWAY, H91 W30F, IRELAND

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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS AND SPECIFICATIONS, NOTES OR OMissions TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
2. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
3. AECOM LIMITED TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORKS.
4. DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
5. DO NOT SCALE. ALL MEASUREMENTS IN MILLIMETRES UNLESS SHOWN OTHERWISE.
6. ALL EXISTING SERVICES TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS.
7. MANHOLE COVERS AND FRAMES IN PUBLICLY ACCESSIBLE AREAS TO BE CAST IRON OR CAST IRON CLASS D400, DOUBLE SEALED AND LOCKABLE TYPE, COMPLYING WITH BS EN 124-2/2015.
8. Gully GRATINGS & FRAMES SHALL COMPLY WITH BS EN 124-2/2015.
9. EXISTING INVERT LEVELS TO BE REFERRED ON SITE TO A FORMATION CONTROL POINT.
10. SURFACE WATER & FOUL SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE OR LESS THAN 0.9m IN DEPTH TO BE REGRADED TO PROVIDE A MINIMUM (WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE) 0.750m SHALL BE ADOPTED TO PROVIDE A MINIMUM COVER OF 150mm THICK CONCRETE C16/20 HAUNCH IN ACCORDANCE WITH IS EN 12820.
11. ALL EXISTING SERVICES TO BE CHECKED PRIOR TO COMMENCEMENT OF ANY WORKS TO DETERMINE THE LOCATION AND VERIFY LEVELS OF THE EXISTING FOUL WATER DRAINAGE NETWORK TO IDENTIFY ANY SUB-STANDARD OR DEFECTIVE ELEMENTS OF THE EXISTING PIPES/MANHOLES TO BE REPORTED AND CORRECTED.
12. ALL SURFACE WATER DRAINAGE DETAILS TO BE IN ACCORDANCE WITH TII SPECIFICATIONS FOR ROAD WATER DRAINAGE.
13. ALL FOUL DRAINAGE TO BE IN ACCORDANCE WITH THE IRISH WATER STANDARD DETAILS AND CODES OF PRACTICE.
14. CONNECTIONS TO THE EXISTING DRAINAGE NETWORK REQUIRE APPROVAL FROM IRISH WATER & GALWAY CITY COUNCIL.
15. REFER TO ARCHITECT DRAWINGS FOR ARCHITECTURAL DETAILS.
16. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR LANDSCAPING DETAILS.

AECOM
PLANNING

PURPOSE

P3 PLANNING

ISSUE/REVISION

01	26.02.2025	FOR PLANNING
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60710277

SHEET TITLE

TYPICAL DRAINAGE DETAILS (SHEET 02)

SHEET NUMBER

60710277-ACM-XX-XX-DR-CE-10-0551