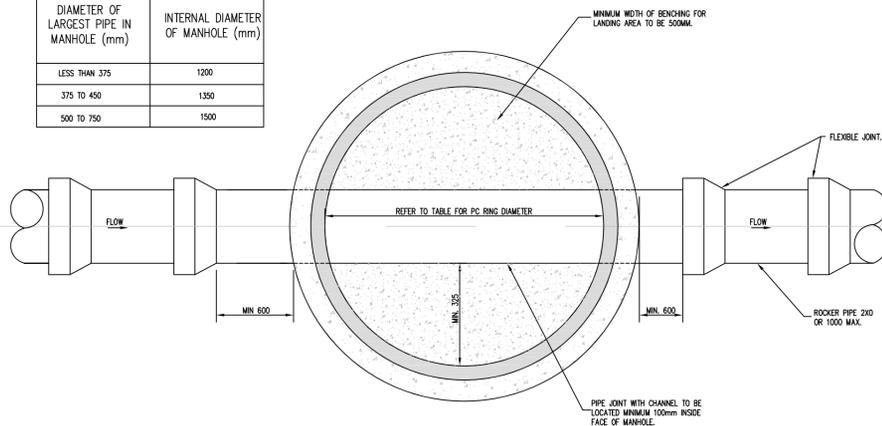


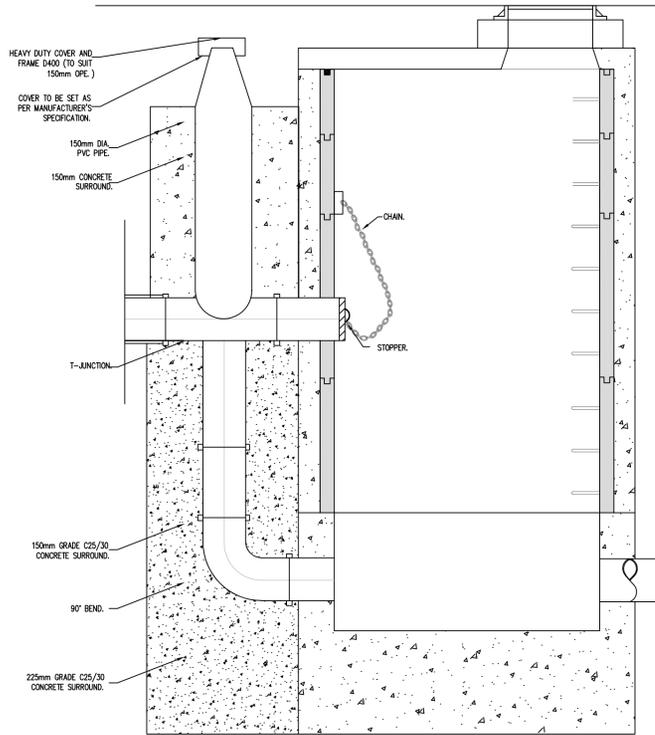
SECTION A-A

MINIMUM MANHOLE DIAMETERS "D"	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500



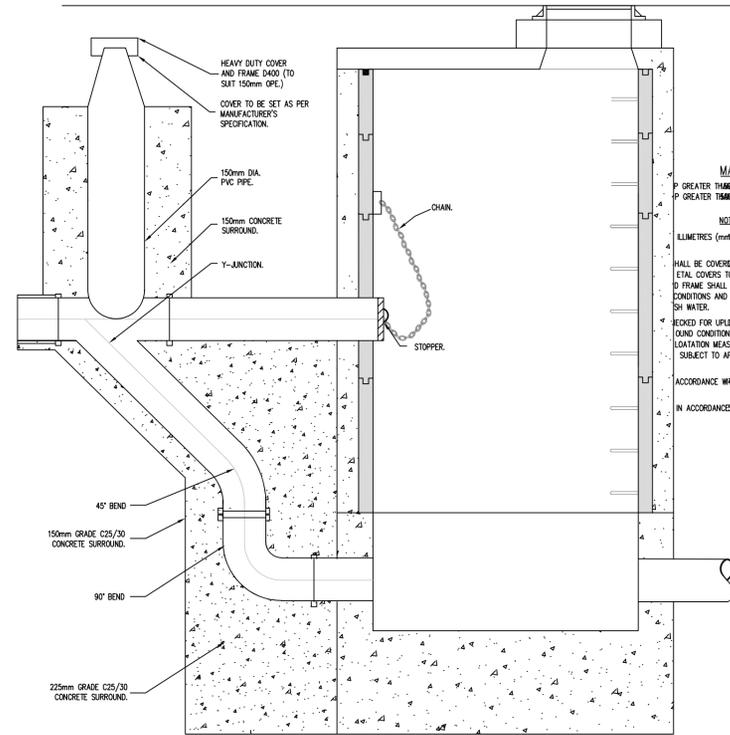
PLAN

MANHOLE TYPE 1 & 4 STANDARD PRECAST CONCRETE FOUL MANHOLE (STD-WW-10) SCALE 1:20



FOUL BACKDROP MANHOLES (STD-WW-12) SCALE 1:20

150mm - 450mm (NCL) DROP GREATER THAN 900mm AND LESS THAN 1700mm.
500mm - 900mm (NCL) DROP GREATER THAN 1300mm AND LESS THAN 2300mm.



MANHOLE L.P.C. 5

P GREATER THAN 100-150mm (NCL) DRO
P GREATER THAN 150-200mm (NCL) DRO

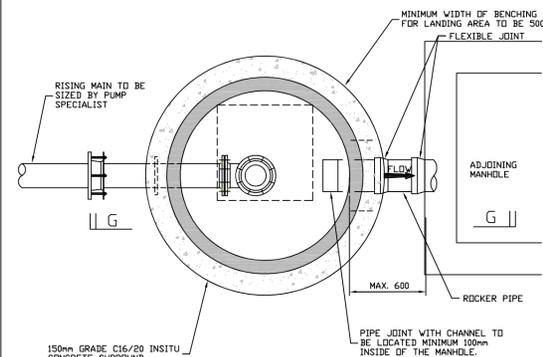
NOTES:
DIMENSIONS ARE IN M
NOTED OTHERWISE.

HALL BE COVERED WITH RUBBER EYE CHAMBER S
ETAL COVERS TO APPROVED HEAVY DUTY M
TO FRAME SHALL BE APPROVED COVER AN
CONDITIONS AND IS FOR ROAD AND TRAFFIC
SH WATER. TO THE APPROVAL OF IR
CHECKED FOR UPLIFT AND MEASURES TO BE O
LOADING CONDITIONS. MEASURES TO BE O
IGATION MEASURES. MEASURES TO BE O
SUBJECT TO APPROVAL. THEY SHALL BE
FROM IRISH WATER.

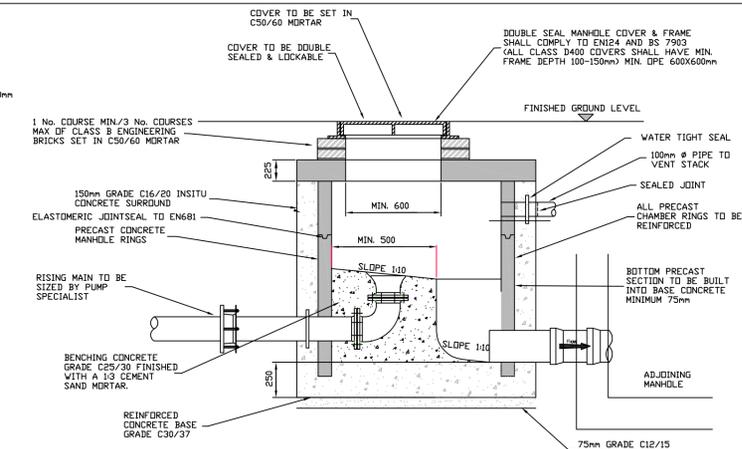
ACCORDANCE WITH BS EN 124 AND BS 7903
206.

IN ACCORDANCE WITH BS EN 124 AND BS 7903
STD-WW-09, 10 AND 11.

- NOTES:
PRECAST CONCRETE MANHOLE (<450mm DIA) STD-WW-10
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
 - PRECAST MANHOLE UNITS, COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.
 - THICKER MANHOLE BASE 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 APPROVAL 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.
 - MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER APPROVAL.
 - MANHOLE ROOFS SHOULD CONSIST OF 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 APPROVAL AND COMPLIANCE WITH BS 5911 PART 4: 2002.
 - COVER AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM IRISH WATER.
 - 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL SAND ARROUND COVERS IN GREEN AREAS.
 - ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULDER AND FLUATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM IRISH WATER.
 - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206: 2013.
 - ANY SPECIAL ROAD RENOVATION AROUND COVER AND FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
 - NEW ROAD CONSTRUCTION AND SURFACE FINISH TO BE TO ROAD AUTHORITY'S REQUIREMENTS.
 - EXISTING ROAD RENOVATION TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MAKING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT INFRASTRUCTURE RELAND REQUIREMENTS.
 - IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
 - 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 GROUNDWATER LEVEL AT THE MANHOLE BEING LOW AND SUBJECT TO REVIEW BY IRISH WATER.



IRISH WATER RISING MAIN DISCHARGE MANHOLE - TYPICAL DETAIL SCALE 1:20



SECTION G-G SCALE 1:20

issued for PLANNING

DIMENSIONS
Figured dimensions only to be taken from this drawing. All dimensions to be checked on site. Architects to be informed immediately of any discrepancies before work proceeds.

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NOTES:

REV	DATE	DETAILS
1	23.09.24	Issued for LRD application
0	AUG.24	Draft issue

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CLIENT	TITLE
EW Property Ltd	LRD: Wastewater Drainage Details Sheet 1 of 3
PROJECT	SCALE DATE CREATED DRAWN BY: PC As Shown @ A1 Sept 24
Hartfield Place, Swords Road, Whitehall, Dublin 9, D09 C7F8	CHECKED BY: MS DRAWING No. REV L24-01-LRD-015 1