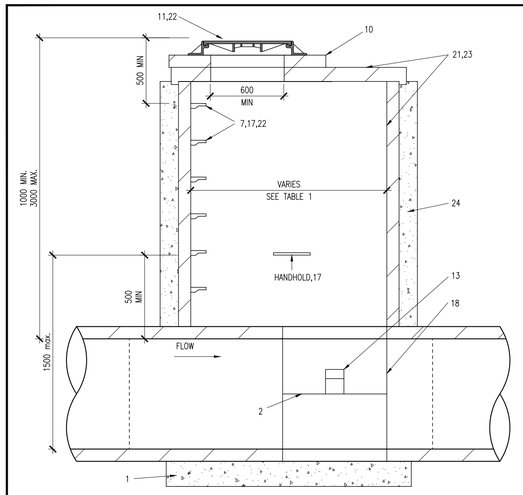
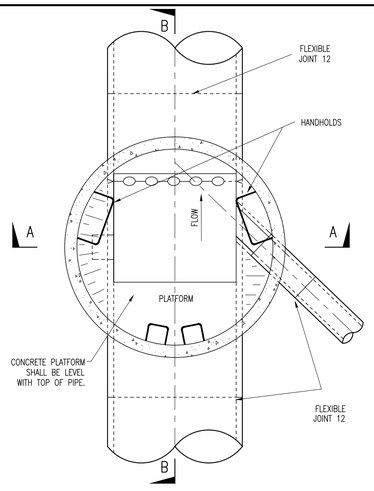
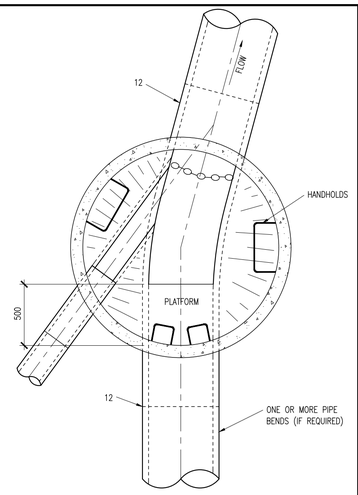


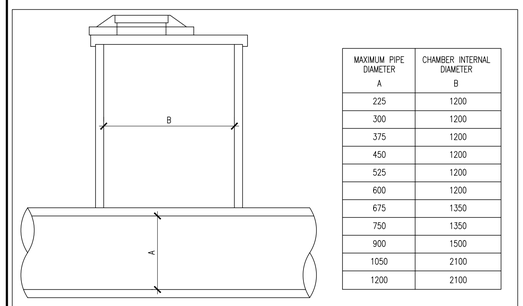
SECTION B–B



PLAN ON STRAIGHT INVERT
(WITHOUT COVER SLAB)

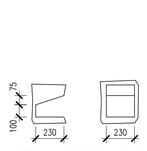


PLAN ON CURVED INVERT
(WITHOUT COVER SLAB)

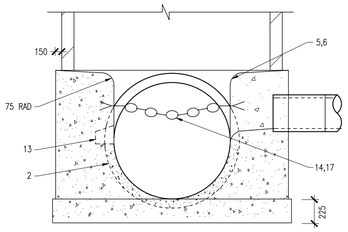


MAXIMUM PIPE DIAMETER A	CHAMBER INTERNAL DIAMETER B
225	1200
300	1200
375	1200
450	1200
525	1200
600	1200
675	1350
750	1350
900	1500
1050	2100
1200	2100

TABLE 1:



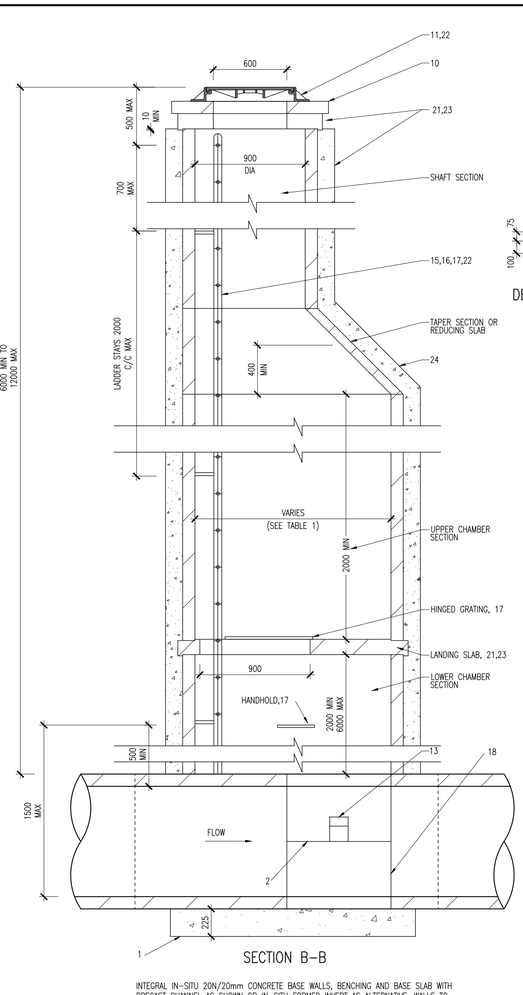
DETAIL OF TOE HOLD



SECTION A–A

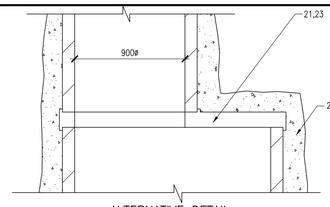
TYPE J MANHOLE
(NOT PERMITTED IN DCC AREA)

INTEGRAL IN–SITU 20N/20mm CONCRETE BASE WALLS, BENCHING AND BASE SLAB WITH PRECAST CHANNEL AS SHOWN OR IN–SITU FORMED INVERT AS ALTERNATIVE. WALLS TO EXTEND 150mm BEYOND OUTER FACES OF CHAMBER RING. ALTERNATIVELY PRECAST CONCRETE CHAMBER RINGS MAY BE BEDDED IN MORTAR OR IN SITU 20N/20mm CONCRETE BASE SLAB 300mm GREATER IN DIAMETER THAN CHAMBER RINGS.

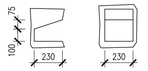


SECTION B–B

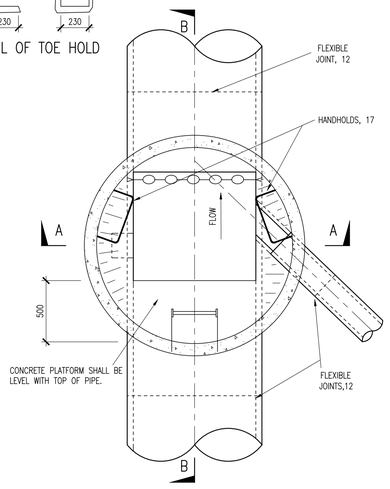
INTEGRAL IN–SITU 20N/20mm CONCRETE BASE WALLS, BENCHING AND BASE SLAB WITH PRECAST CHANNEL AS SHOWN OR IN–SITU FORMED INVERT AS ALTERNATIVE. WALLS TO EXTEND 150mm BEYOND OUTER FACES OF CHAMBER RING. ALTERNATIVELY PRECAST CONCRETE CHAMBER RINGS MAY BE BEDDED IN MORTAR OR IN SITU 20N/20mm CONCRETE BASE SLAB 300mm GREATER IN DIAMETER THAN CHAMBER RINGS.



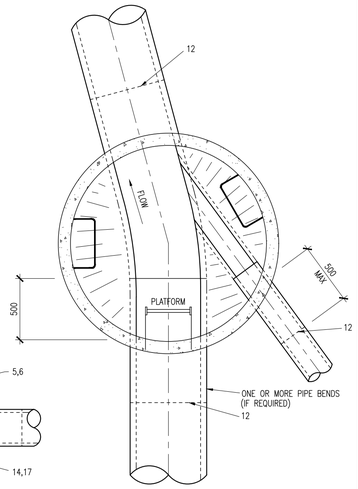
ALTERNATIVE DETAIL
(REDUCING SLAB INSTEAD OF TAPER SECTION)



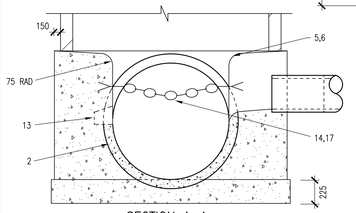
DETAIL OF TOE HOLD



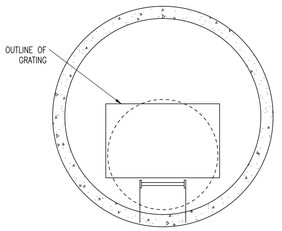
PLAN ON STRAIGHT INVERT
(WITHOUT COVER SLAB)



PLAN ON CURVED INVERT
(WITHOUT COVER SLAB)

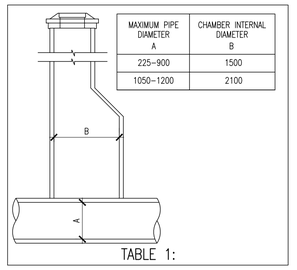


SECTION A–A



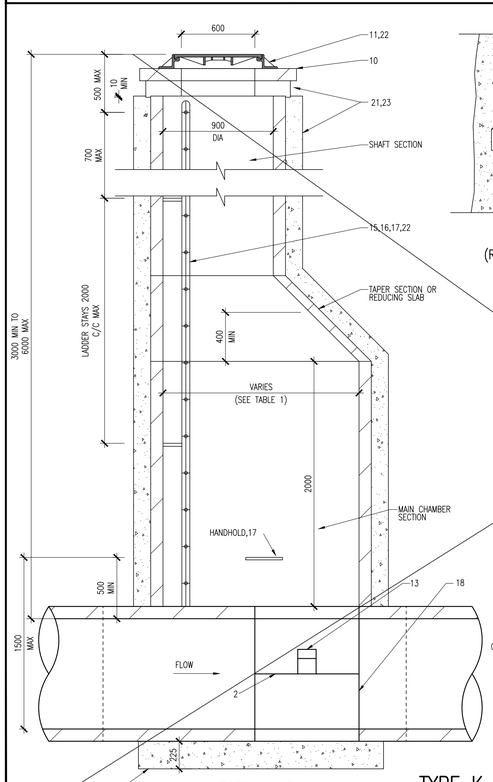
PLAN OF LANDING

TYPE L MANHOLE
(NOT PERMITTED IN DCC AREA)



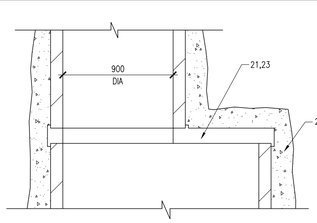
MAXIMUM PIPE DIAMETER A	CHAMBER INTERNAL DIAMETER B
225–900	1500
1050–1200	2100

TABLE 1:

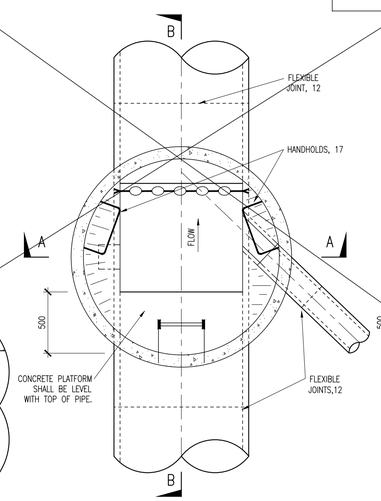


SECTION B–B

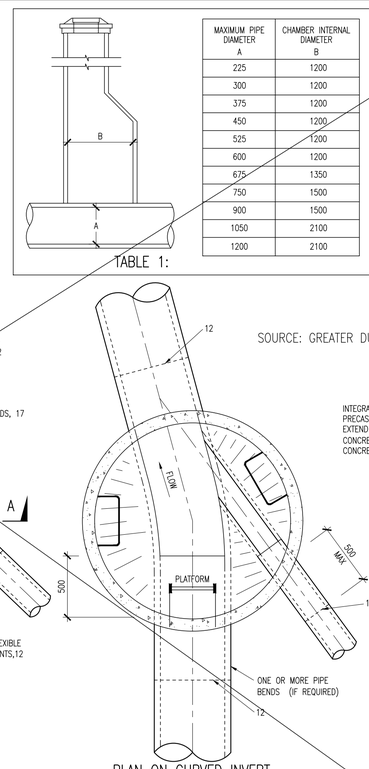
TYPE K MANHOLE
(NOT PERMITTED IN DCC AREA)



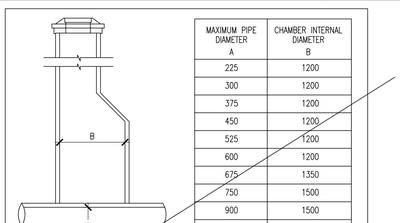
ALTERNATIVE DETAIL
(REDUCING SLAB INSTEAD OF TAPER SECTION)



PLAN ON STRAIGHT INVERT
(WITHOUT COVER SLAB)

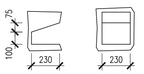


PLAN ON CURVED INVERT
(WITHOUT COVER SLAB)

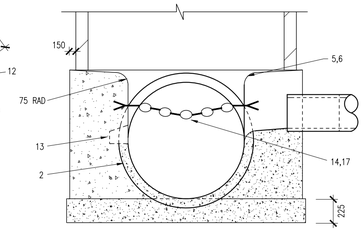


MAXIMUM PIPE DIAMETER A	CHAMBER INTERNAL DIAMETER B
225	1200
300	1200
375	1200
450	1200
525	1200
600	1200
675	1350
750	1500
900	1500
1050	2100
1200	2100

TABLE 1:



DETAIL OF TOE HOLD



SECTION A–A

SOURCE: GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS (V6.0)

INTEGRAL IN–SITU 20N/20mm CONCRETE BASE WALLS, BENCHING AND BASE SLAB WITH PRECAST CHANNEL AS SHOWN OR IN–SITU FORMED INVERT AS ALTERNATIVE. WALLS TO EXTEND 150mm BEYOND OUTER FACES OF CHAMBER RING. ALTERNATIVELY PRECAST CONCRETE CHAMBER RINGS MAY BE BEDDED IN MORTAR OR IN SITU 20N/20mm CONCRETE BASE SLAB 300mm GREATER IN DIAMETER THAN CHAMBER RINGS.

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ON ORIGINAL

0 5 10 15 20 25 30 40 50mm

NOTES:

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH NRA SPECIFICATION FOR ROAD WORKS U.N.O.
2. ALL REINFORCED CONCRETE ON THIS DRAWING SHALL BE U.N.O.: 35N20 COVER = 50mm MIN
3. SURFACE FINISHES FOR CONCRETE:
   - CLASS F1 FOR ALL CONCRETE 100mm OR MORE BELOW GROUND LEVEL.
   - CLASS F3 FOR ALL EXPOSED CONCRETE ABOVE 100mm BELOW GROUND LEVEL.
4. ALL EXPOSED CORNERS ON CONCRETE SHALL BE CHAMFERED WITH 25mm x 25mm CHAMFERS.
5. ALL STRUCTURAL CONCRETE (HEADWALLS, RC MANHOLES, PETROL INTERCEPTOR SLABS) TO RECEIVE MC DUR 1680 (OR SIMILAR APPROVED TAR MODIFIED EPOXY RESIN) TO ALL BURIED SURFACES, TO FINISH 100mm BELOW GROUND LEVEL.
6. ALL SEWERS SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING.
7. RIGID PIPES SHALL MEAN CAST OR SPUN IRON, CONCRETE, ASBESTOS CEMENT OR CLAY.
8. CLASS D400 MANHOLE COVER FRAMES TO BE 150mm DEEP IN ROADS AND 100mm DEEP IN FOOTPATHS AND GREEN AREAS.
9. ALL AGGREGATES PROPOSED FOR USE ON THIS SCHEME SHALL MEET FULLY THE REQUIREMENTS OF THE NRA SPECIFICATION FOR ROAD WORKS AND IN ADDITION THE REQUIREMENTS STATED IN STANDARD RECOMMENDATION S.R. 21:2014 GUIDANCE ON THE USE OF I.S. EN 13242:2002 +A1:2007–AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS FOR USE IN CIVIL ENGINEERING WORK AND ROAD CONSTRUCTION.
10. ALL FOUL SEWERS, MANHOLES, AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS.
11. ALL SURFACE WATER SEWERS, MANHOLES, AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH THE GRATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

REV.	DATE	DESCRIPTION	BY	CHKD
P1	17/12/19	PLANNING ISSUE	PJC	BCM

STAGE 2 - PLANNING

DESIGNED	BCM	PREPARED	PJC
DATE	OCT 2019	CHECKED	DJR

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WATERFORD OFFICE Unit 2, The Chandlery, 1-2 O' Connell Street, Waterford, Ireland. PHONE +353 51 309 500 FAX +353 51 844 913

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PROJECT
NEWTOWNMOYAGHY SHD

DRG. TITLE
TYPICAL SURFACE WATER DETAILS SHEET 2 OF 3

CLIENT
MCGARRELL REILLY

SCALE 1:25 @A1

FILE REF. 190009-DBFL-XX-XX-DR-C-3010

DRG. NO. 190009-DBFL-XX-XX-DR-C-3011 P1