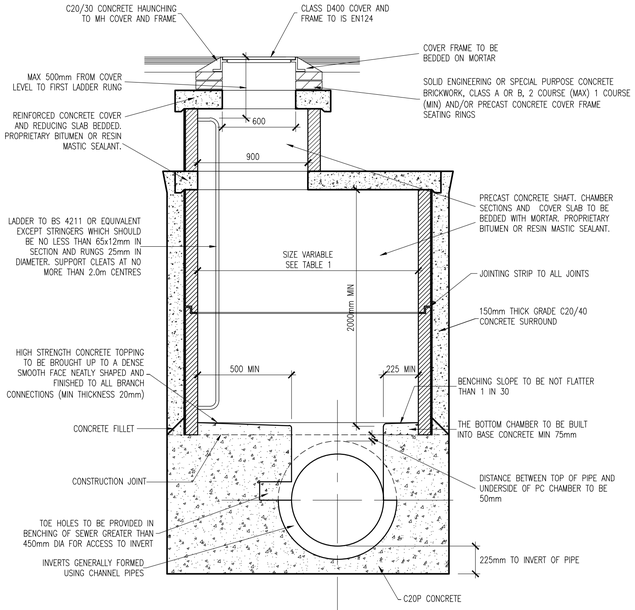
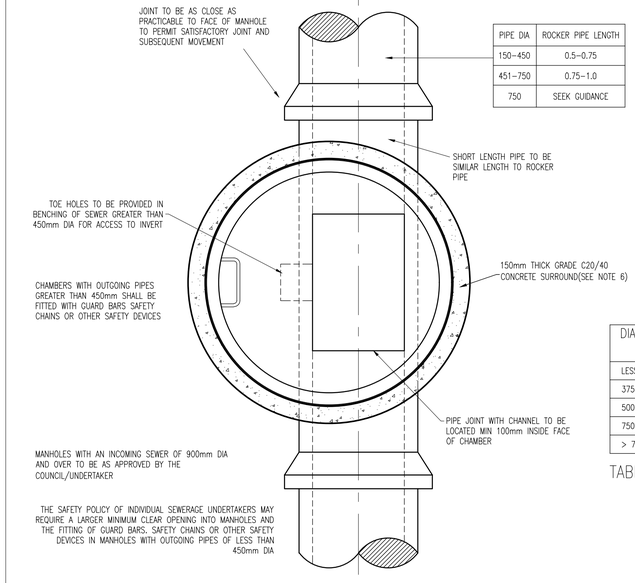
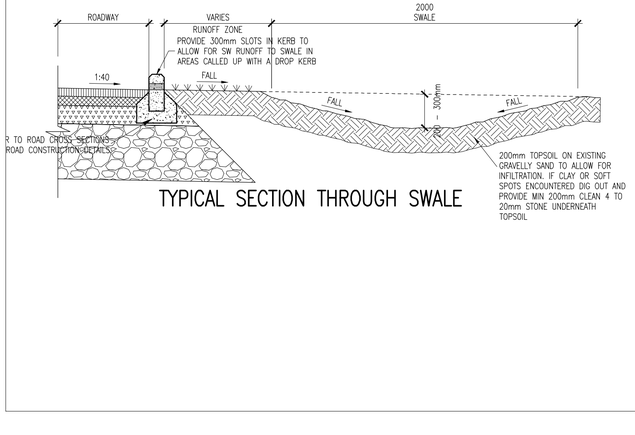


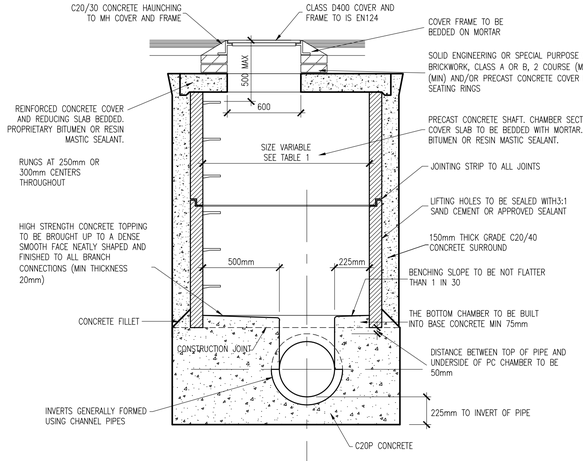
TYPICAL MANHOLE DETAIL – TYPE K
DEPTH TO SOFFIT 3 TO 6m
SCALE 1:25

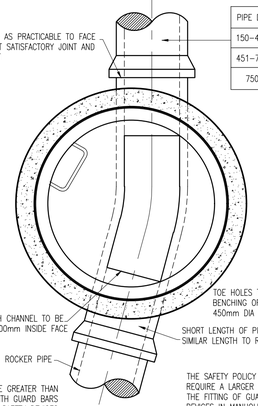


PIPE DIA	ROCKER PIPE LENGTH
150–450	0.5–0.75
451–750	0.75–1.0
750	SEEK GUIDANCE



TYPICAL SECTION THROUGH SWALE





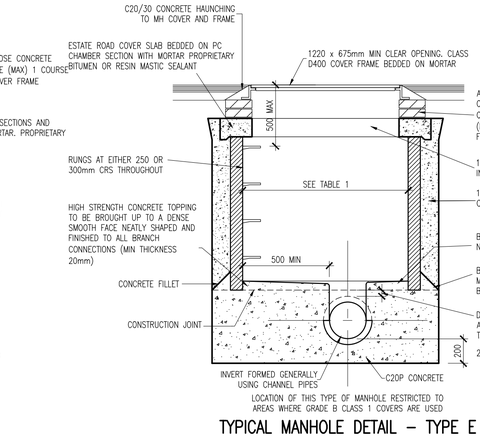
PIPE DIA	ROCKER PIPE LENGTH
150–450	0.5–0.75
451–750	0.75–1.0
750	SEEK GUIDANCE

THE SAFETY POLICY OF INDIVIDUAL SEWERAGE UNDERTAKERS MAY REQUIRE A LARGER MINIMUM CLEAR OPENING INTO MANHOLES AND THE FITTING OF GUARD BARS. SAFETY CHAINS OR OTHER SAFETY DEVICES IN MANHOLES WITH OUTGOING PIPES OF LESS THAN 450mm DIA

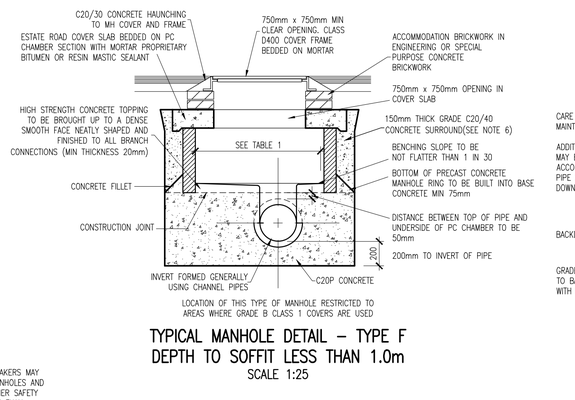
TYPICAL MANHOLE DETAIL – TYPE J
DEPTH TO SOFFIT 1.35 TO 3m
SCALE 1:25

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	CHAMBER SECTION DIAMETER (mm)
LESS THAN 375	1200
375 – 450	1350
500 – 700	1500
750 – 900	1800
> 750	PIPE SIZE + 1.3m

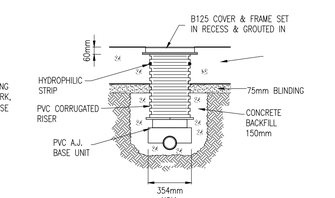
TABLE 1



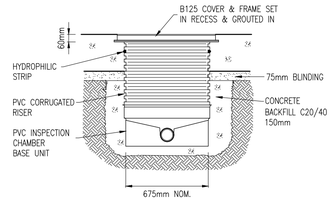
TYPICAL MANHOLE DETAIL – TYPE E
DEPTH TO SOFFIT 1.0 TO 1.35m
SCALE 1:25



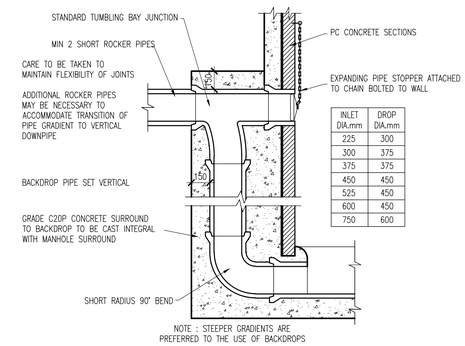
TYPICAL MANHOLE DETAIL – TYPE F
DEPTH TO SOFFIT LESS THAN 1.0m
SCALE 1:25



A.J. DETAIL(450mm MAX DEPTH)



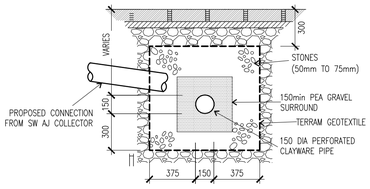
INSPECTION CHAMBER(1200mm MAX DEPTH)



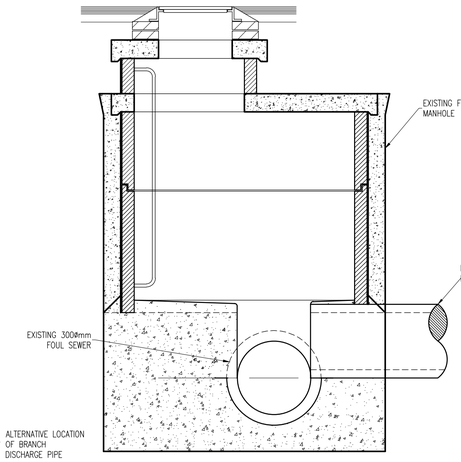
INLET DIA.mm	DROP DIA.mm
225	300
300	375
375	375
450	450
525	450
600	450
750	600

NOTE : STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS

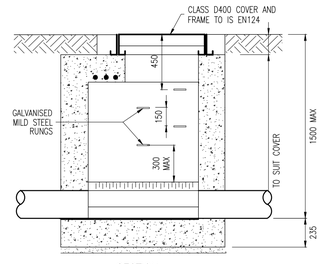
TYPICAL VERTICAL BACKDROP DETAIL
SCALE 1:25



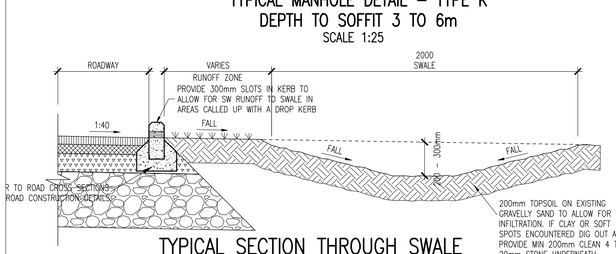
TYPICAL FILTER DRAIN



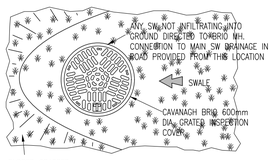
CONNECTION TO EXISTING FOUL SEWER
SCALE 1:25



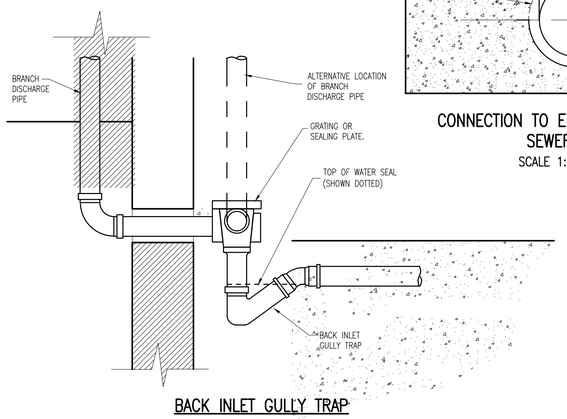
SECTION



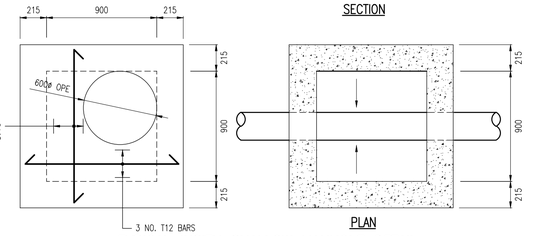
PLAN
SCALE: N.T.S.



CAVANAGH BRIO MANHOLE COVER
N.T.S



BACK INLET GULLY TRAP



PLAN

TYPICAL INSITU SHALLOW MANHOLE DETAIL
SCALE 1:25

ON ORIGINAL
0 5 10 20 30 40 50mm

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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 168O (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.
0	08-05-24	First Issue	PJ	HvH

STATUS CODES

purpose	acceptance
P1 - INFORMATION	S - ISSUED

DBFL CONSULTING ENGINEERS
T: + 353 1 400 4000 | E: info@dbfl.ie | W: www.dbfl.ie
DUBLIN | CORK | GALWAY | WATERFORD

project ref.
BLESSINGTON LRD

drawing title
TYPICAL SURFACE WATER DRAINAGE DETAILS SHEET 1

client
MARSHALL YARDS DEVELOPMENT COMPANY LTD'

designed by	author	scale	sheet size
HvH	PJ	AS NOTED	A1

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