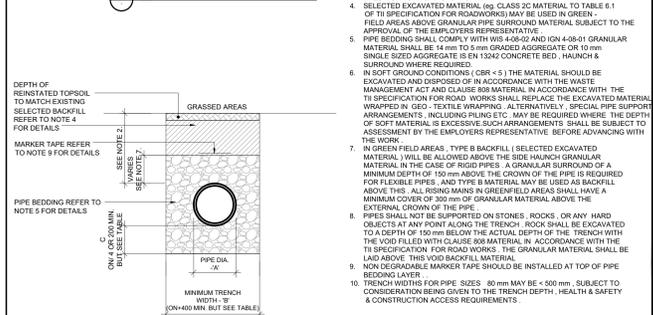
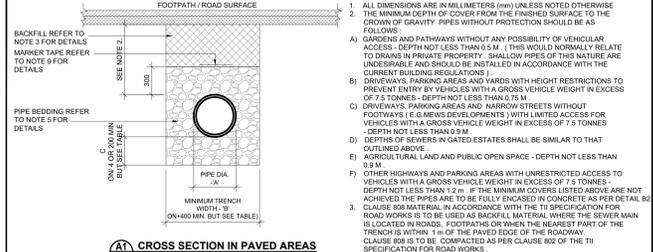


- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS & DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.
- WASTE DRAINAGE DETAILS TO BE IN ACCORDANCE WITH IRISH WATER REQUIREMENTS UNLESS NOTED OTHERWISE. REFER TO IRISH WATER DETAILS FOR ADDITIONAL INFORMATION.
- CONNECTION OF BRANCHES TO THE MAIN LINE ARE TO BE BY MEANS OF 45° BRANCH CONNECTIONS. SADDLE CONNECTIONS NOT ALLOWED.
- ALL BURIED PIPES UNDER GROUND FLOOR SLABS TO BE ENCASED IN CONCRETE.
- ALL GULLY GRATINGS AND LIGS TO BE MIN. D400 RATING.



PIPE MATERIALS

UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAINAGE LAYOUT THE PIPE MATERIAL WILL BE AS FOLLOWS:

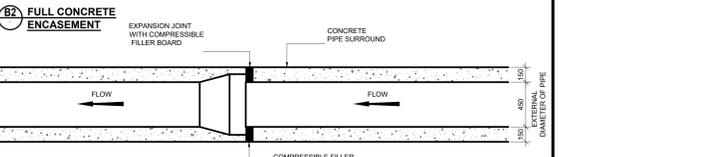
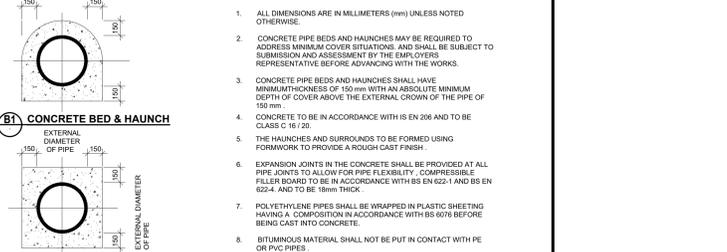
PIPE DIAMETER A (mm)	TRENCH WIDTH B (mm)	SEE NOTE
80 RINGS MAN		10
100	100	10
150	600	10
200	600	10
250	750	10
300	750	10
350	750	10
400	900	10
450	900	10

PIPE DIAMETER < 225mm: USE uPVC PIPE WORK
 PIPE DIAMETER > 225mm: USE CONCRETE PIPE WORK

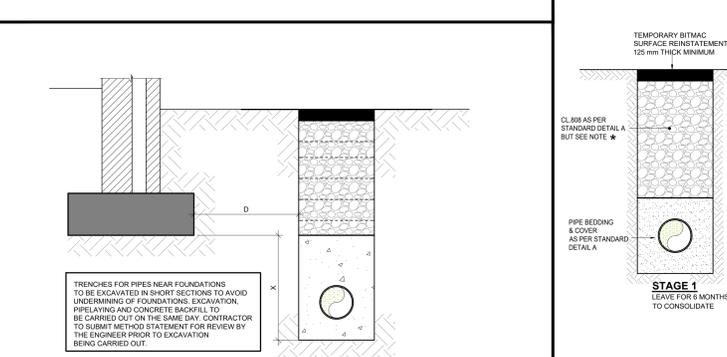
PIPE MATERIAL TO BE IN ACCORDANCE WITH THE FOLLOWING:

- CONCRETE PIPES TO HAVE SPIGOT & SOCKET JOINTS AND RUBBER RING FITTINGS TO IS EN 1916 (2002); BS5911, PART 1, (2002-2010) AND IS (2004).
- uPVC PIPES, JOINTS AND FITTINGS TO COMPLY WITH THE PROVISIONS OF IS EN 1401-PART 1 AND BS 4560.

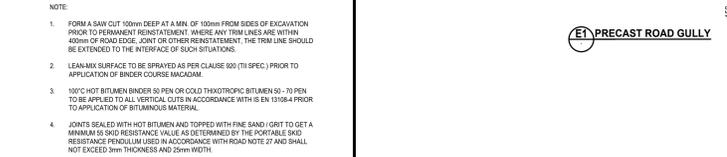
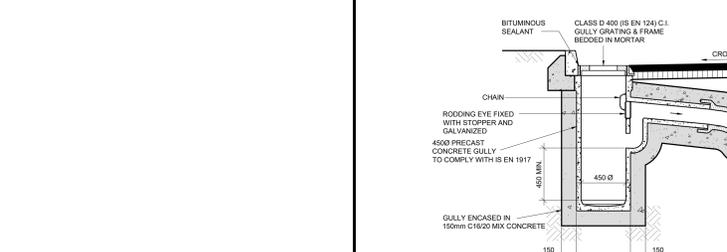
A TRENCH BACKFILL & BEDDING



B CONCRETE HAUNCH, BED & SURROUND

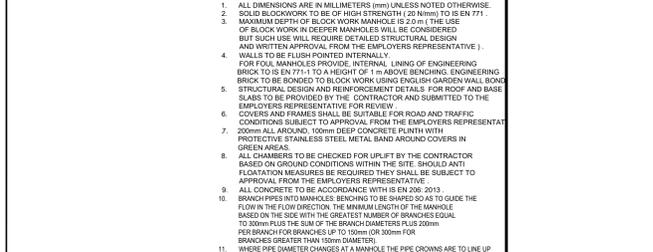
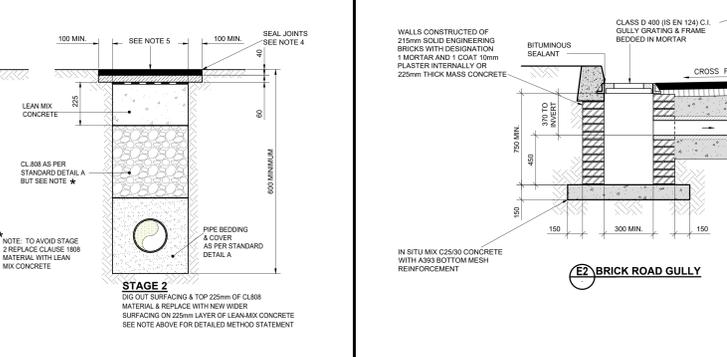


C DRAIN LAID NEAR FOUNDATIONS

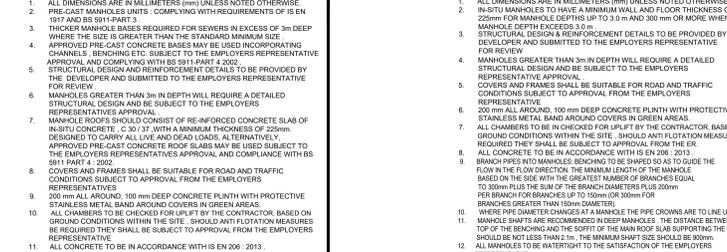


E TYPICAL SECTION THROUGH ROAD GULLY

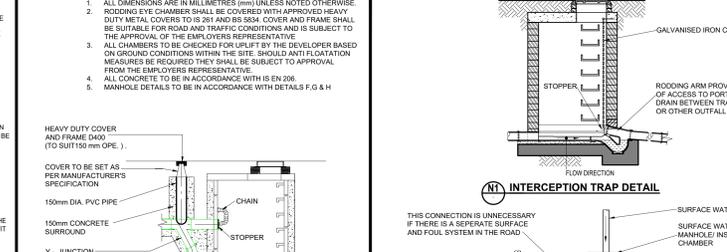
D REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD



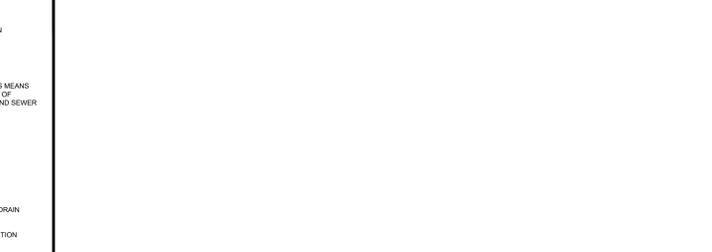
F BLOCKWORK MANHOLE < (450mm DIAMETER & DEPTH TO INVERT < 2m)



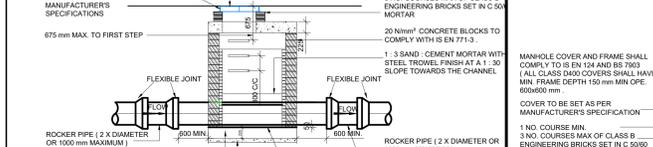
G PRE-CAST CONCRETE MANHOLE



H IN-SITU CONCRETE MANHOLE



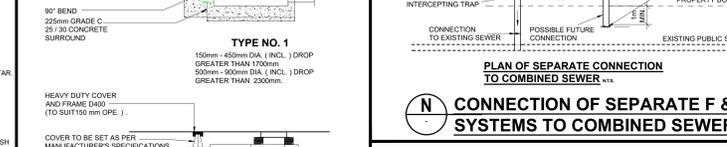
I BACKDROP MANHOLE



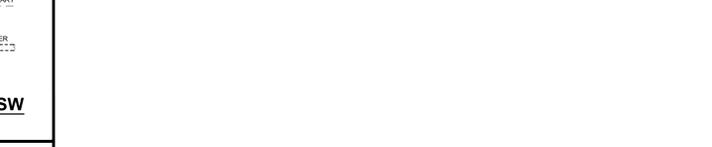
J INTERCEPTION TRAP DETAIL



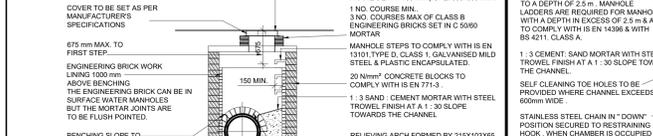
K CONNECTION OF SEPARATE F & SW SYSTEMS TO COMBINED SEWER



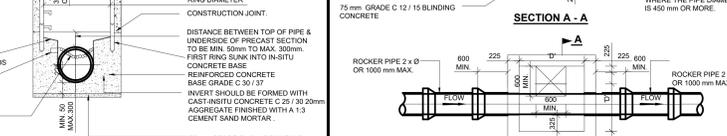
L MINIMUM MANHOLE DIMENSIONS 'D'



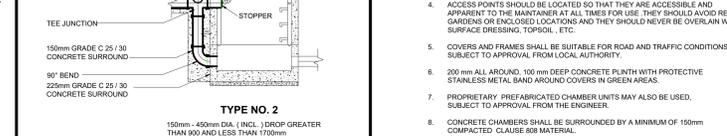
M INSPECTION CHAMBER (BLOCKWORK CONSTRUCTION)



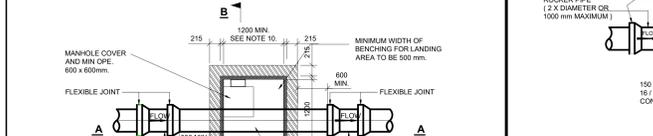
N PLAN OF SEPARATE CONNECTION TO COMBINED SEWER



O ROOF PLAN



P FLOOR PLAN



Q MINIMUM MANHOLE DIMENSIONS 'D'



R TYPE NO. 1



S TYPE NO. 2



T TYPE NO. 3

A1 CROSS SECTION IN PAVED AREAS

B1 CONCRETE BED & HAUNCH

E1 PRECAST ROAD GULLY

E2 BRICK ROAD GULLY

A2 CROSS SECTION IN GRASSED AREAS / SOFT LANDSCAPING

B2 FULL CONCRETE ENCASEMENT

D REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD

E TYPICAL SECTION THROUGH ROAD GULLY