

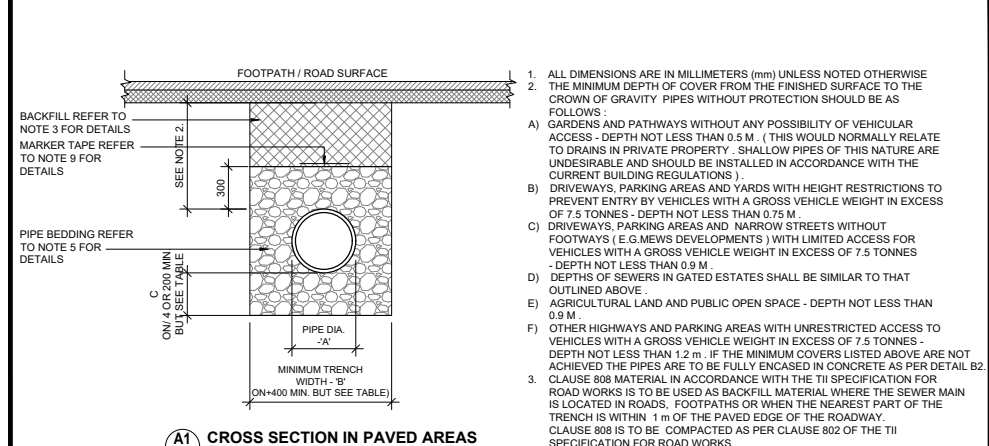
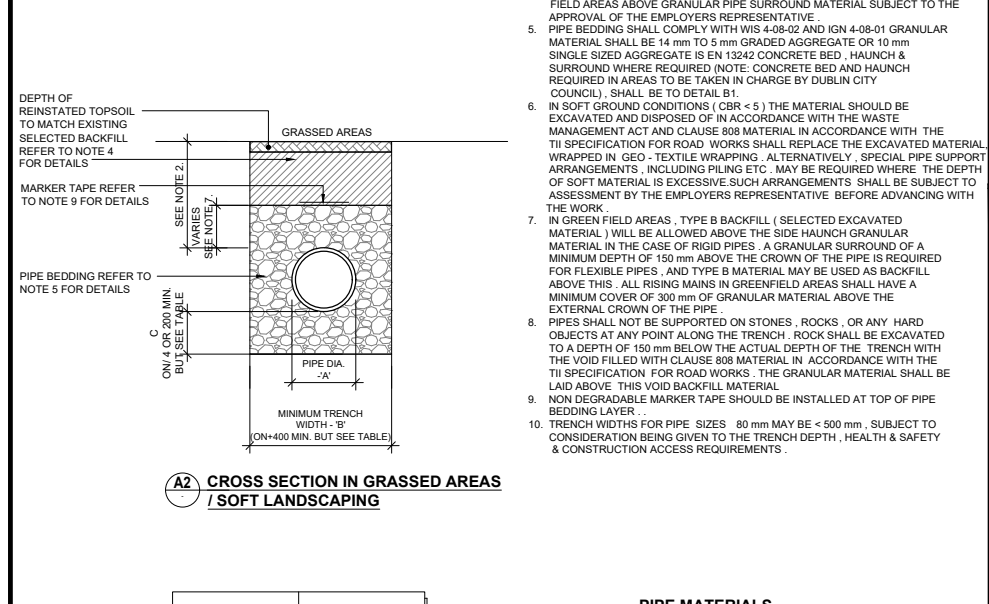
NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED 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.
- REFER TO THE STRUCTURAL WATER MAINS DRAWING FOR A TYPICAL SERVICE LAYOUT UNDER A FOOTPATH.
- CONNECTION OF BRANCHES TO THE MAIN LINE ARE TO BE BY MEANS OF 45° BRICK CONNECTIONS. SADDLE CONNECTIONS NOT ALLOWED.
- INTERNAL GROUND FLOOR FLOOR CONNECTIONS TO DRAIN SEPARATELY FROM THE UPPER STOREYS.
- ALL BURIED PIPES UNDER GROUND FLOOR SLABS TO BE ENCASED IN CONCRETE TO A MINIMUM OF 150mm MINIMUM COVER IS LESS THAN 1.2m.
- ALL GULLY GRATING AND LOS TO BE MIN. D400 RATING.

- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN 1m OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF EACH SEWER CONNECTION TO A PUBLIC SEWER IN ACCORDANCE WITH THE PRIVATE SEWER ACT 1980.
- ANY PIPE AND ASSOCIATED ACCESS UPSTREAM OF THE POINT OF CONNECTION TO THE MAINLINE SHOULD BE CONTRACTED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
- ACCESS POINTS SHOULD BE LOCATED SO THAT THEY ARE ACCESSIBLE AND APPROPRIATE TO THE MAINTENANCE AT ALL TIMES FOR USE. THEY SHOULD AVOID BEING LOCATED UNDER GARDENS OR ENCLOSED LOCATIONS AND THEY SHOULD NEVER BE OVERLAIN WITH SURFACE DRESSING, TOPSOIL, ETC.
- COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM IRISH WATER.
- 200 mm ALL AROUND, 100 mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS METAL BAND AROUND COVERS IN GREEN AREAS.
- PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO APPROVAL FROM THE ENGINEER.
- CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS 9/0 MATERIAL.

- COVER TO BE SET AS PER MANUFACTURER'S SPECIFICATION.
- 1 NO. COURSE MIN. 3 NO. COURSES MAX OF CLASS B ENGINEERING BRICKS.
- MINIMUM INTERNAL DIMENSIONS 600mm DIAMETER OR 600 mm x 600 mm.
- 215 THICK CONCRETE COVER 40mm MAX TO BOTTOM STEEL PLING.
- 225mm PRECAST BASE OR 25mm IN-SITU CONCRETE C 25 / 30.
- 215 THICK 20 N/mm² CONCRETE BLOCK WORK IN ACCORDANCE WITH BS EN 771-3.

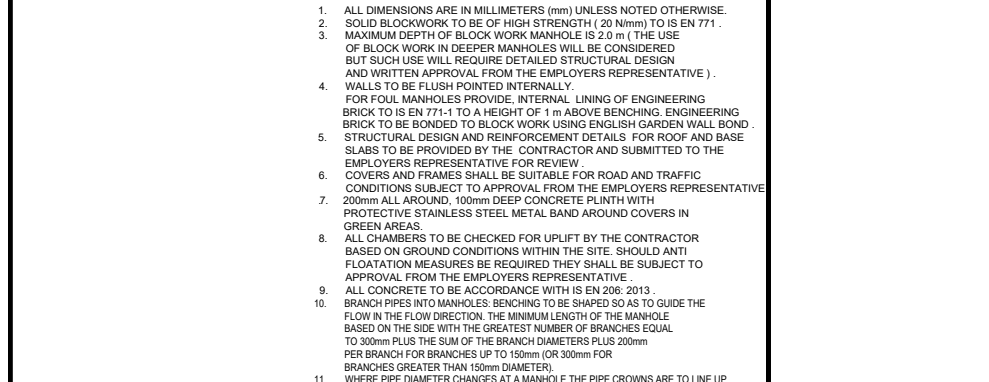
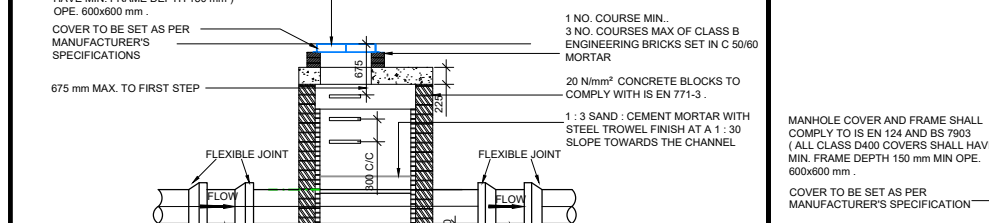
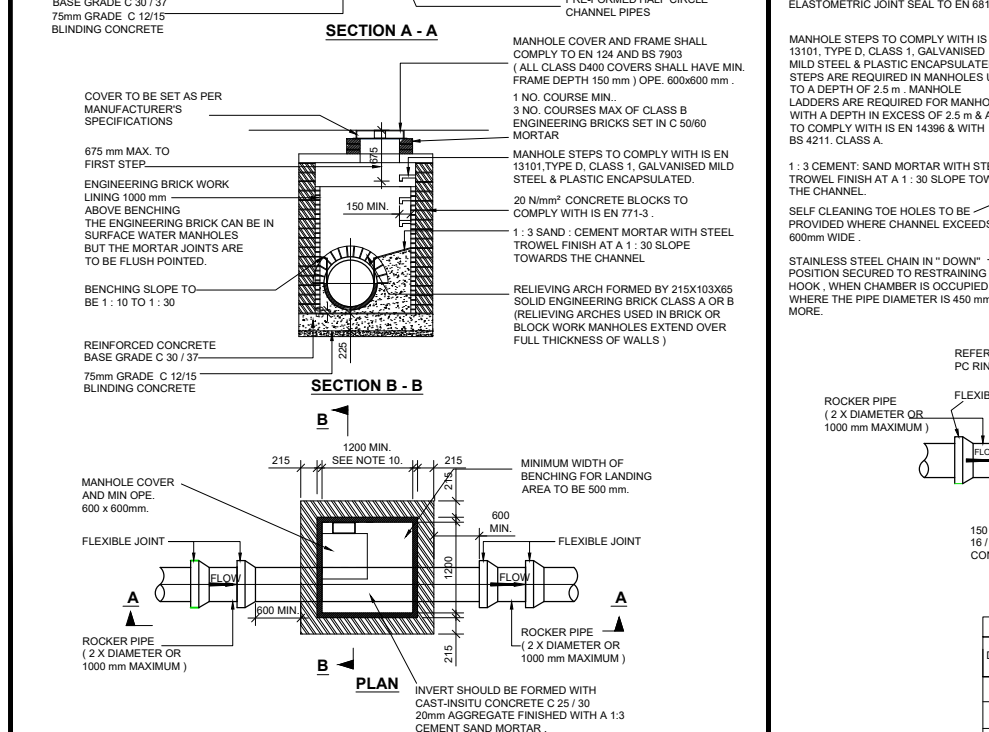
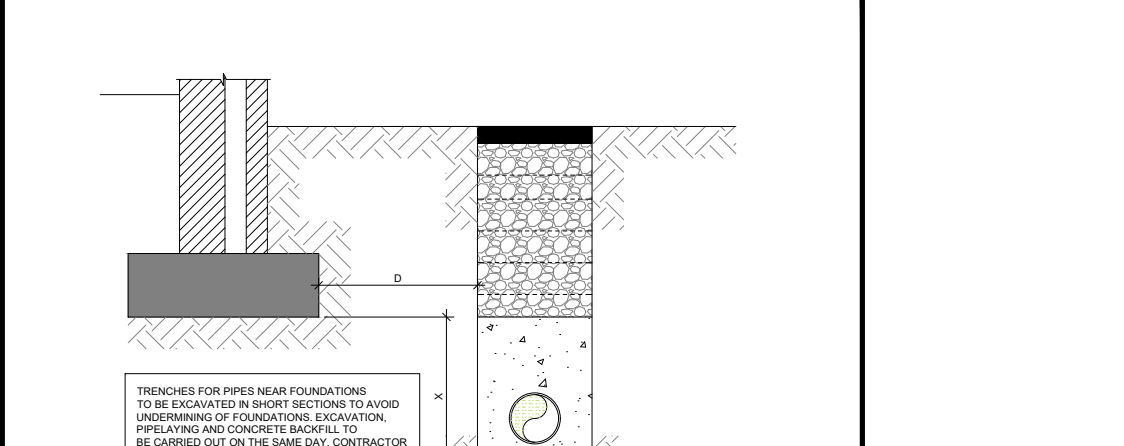
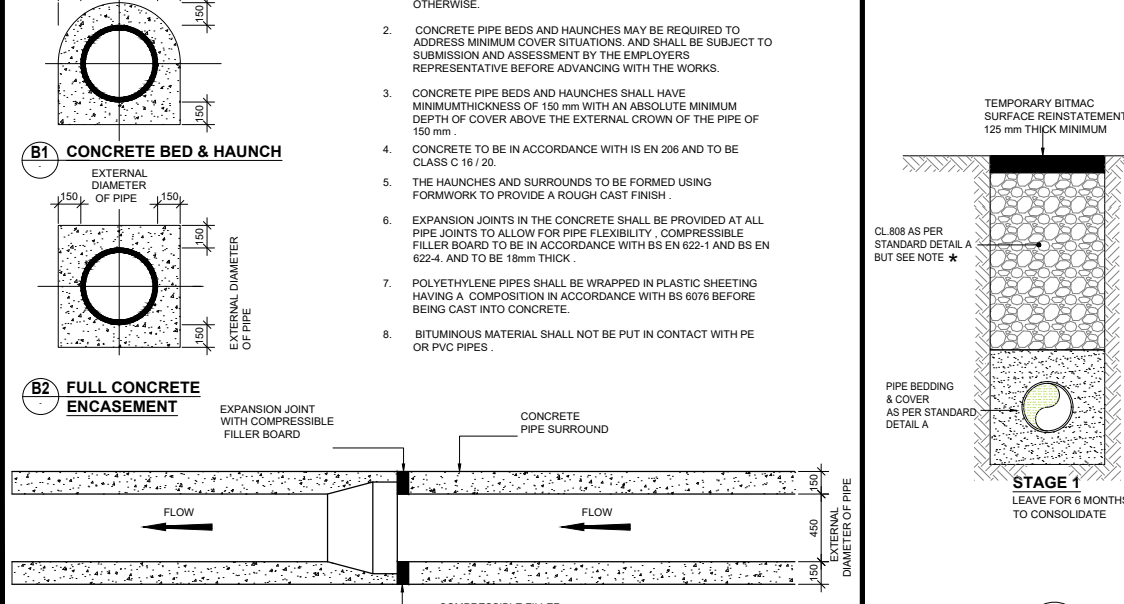
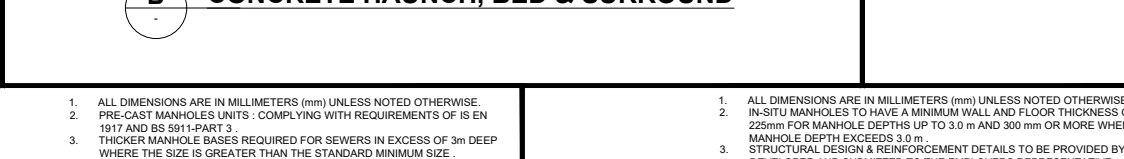
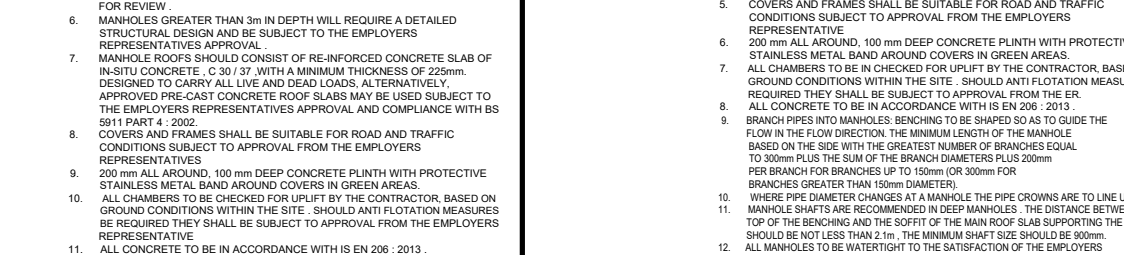
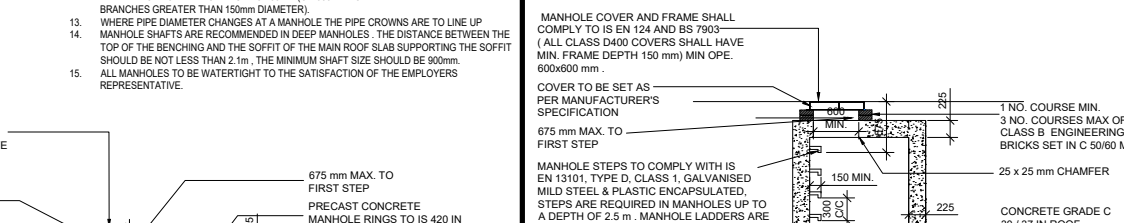
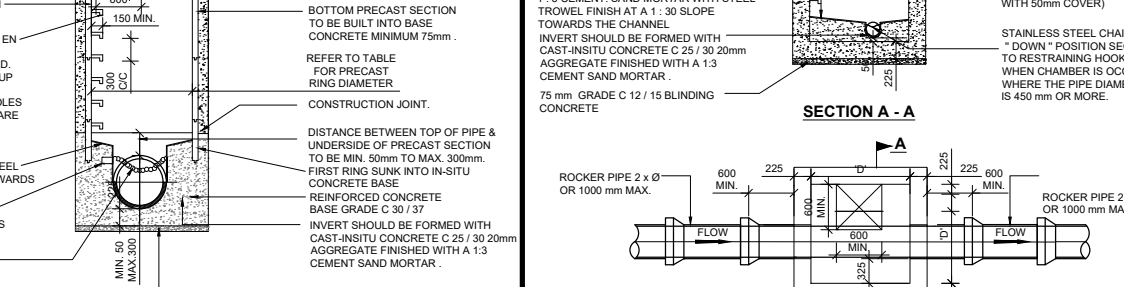
- ACCESS JUNCTIONS (A3) TO BE USED FOR INVERT DEPTHS UP TO 0.6m.
- INSPECTION CHAMBERS TO BE USED FOR INVERT DEPTHS 0.6m TO 1.0m. INSPECTION CHAMBERS CAN BE CONSTRUCTED IN BLOCKWORK AS DETAIL 'M' OR BE PROPRIETARY TYPE PRESUBMITTED TO ENGINEERS APPROVAL.
- FOR INVERT DEPTHS IN EXCESS OF 1.0m DEEP USE MANHOLE TYPE CONSTRUCTION.

M INSPECTION CHAMBER (BLOCKWORK CONSTRUCTION)**A1 CROSS SECTION IN PAVED AREAS****A2 CROSS SECTION IN GRASSED AREAS / SOFT LANDSCAPING**

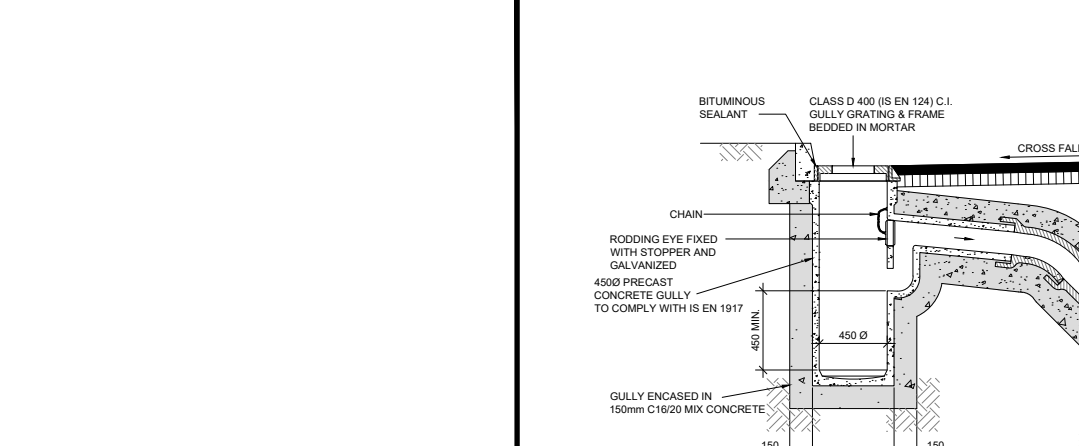
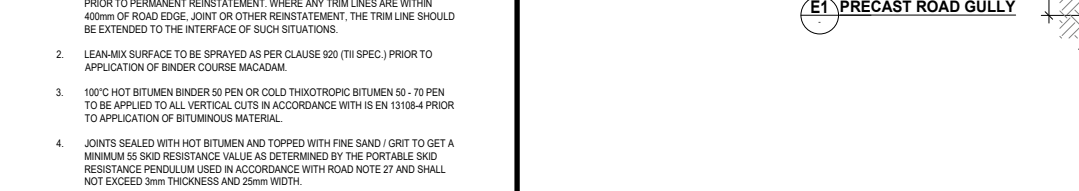
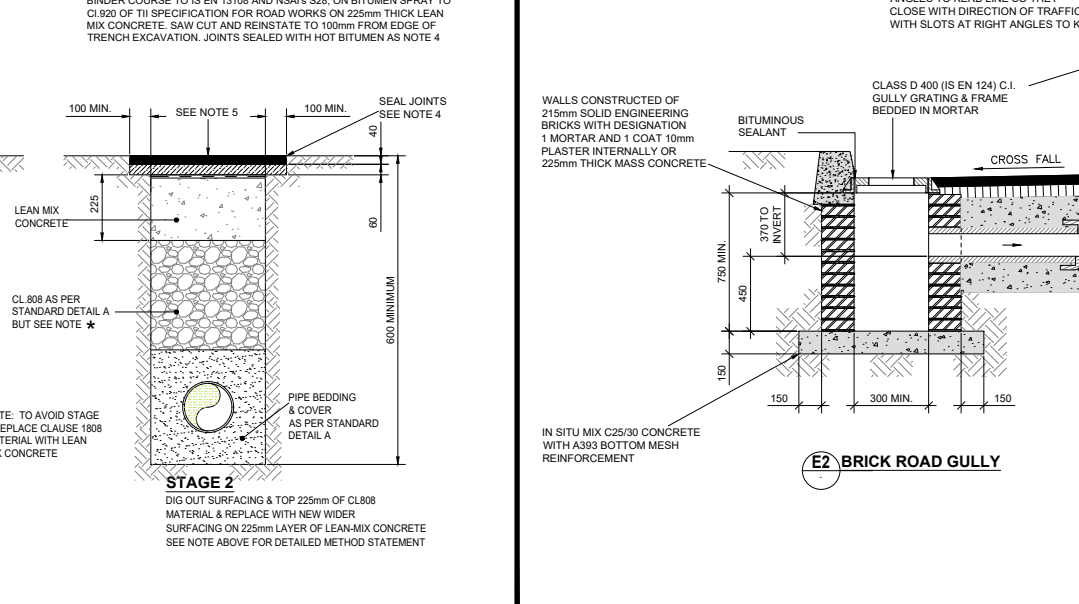
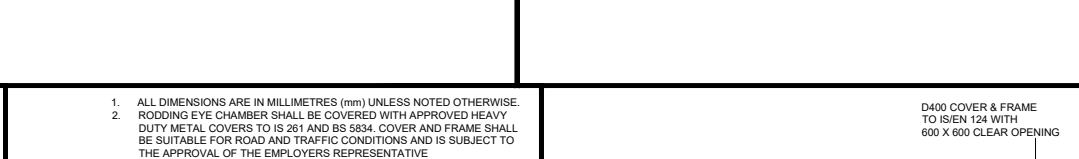
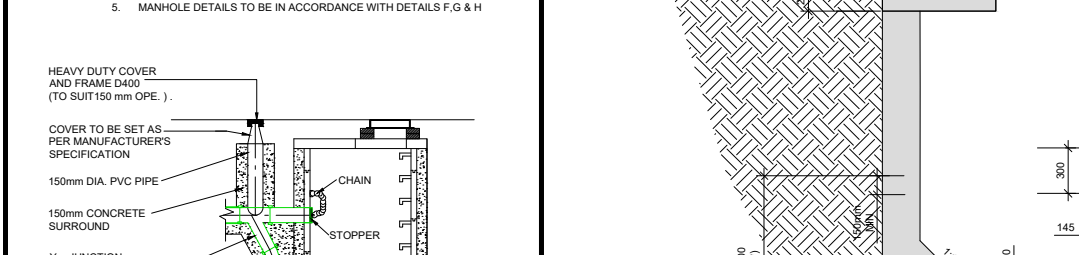
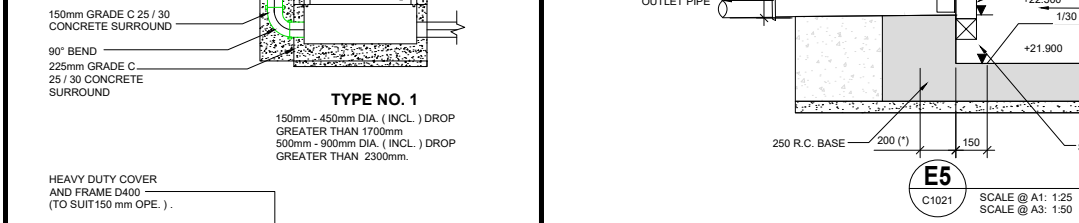
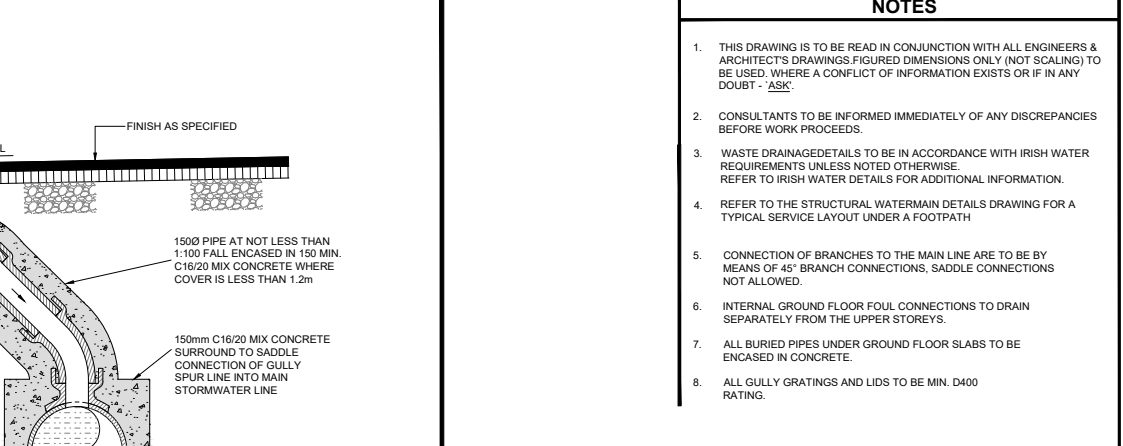
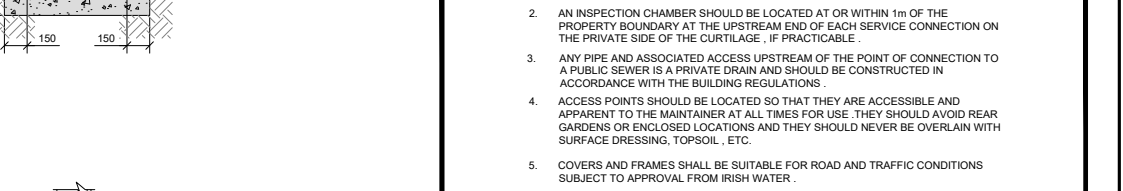
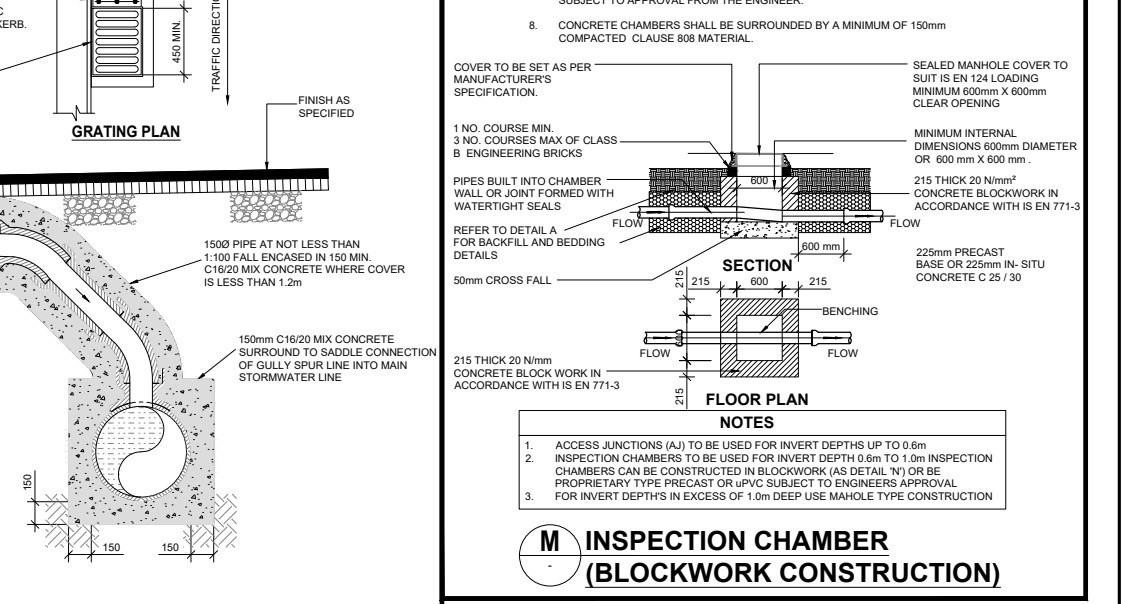
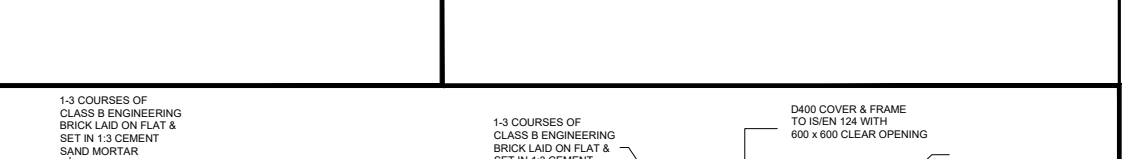
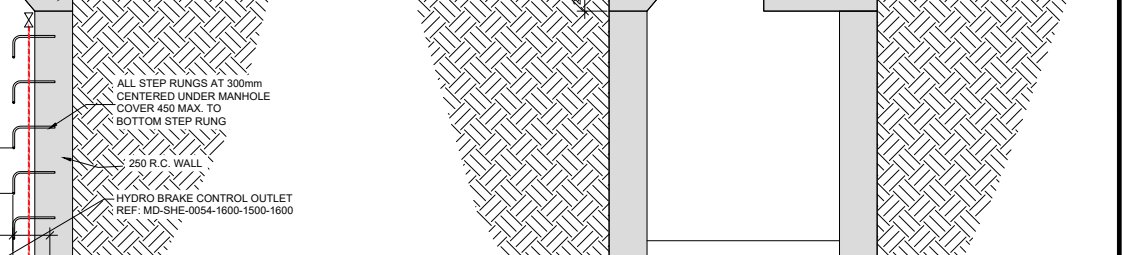
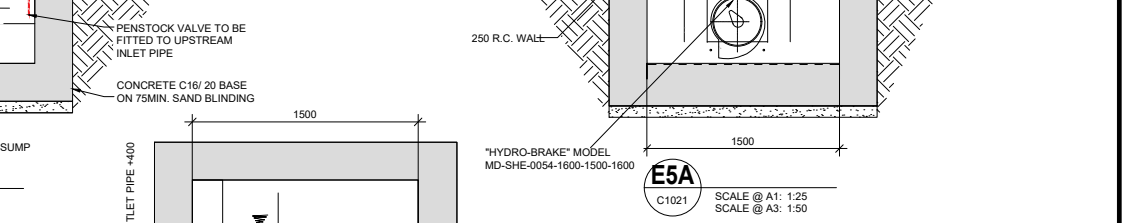
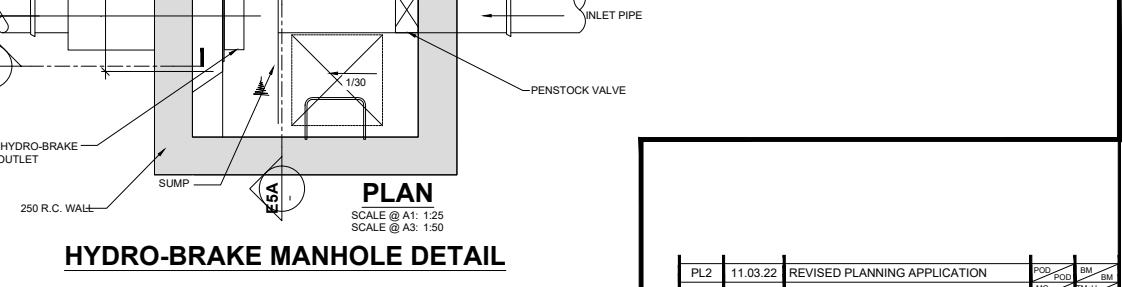
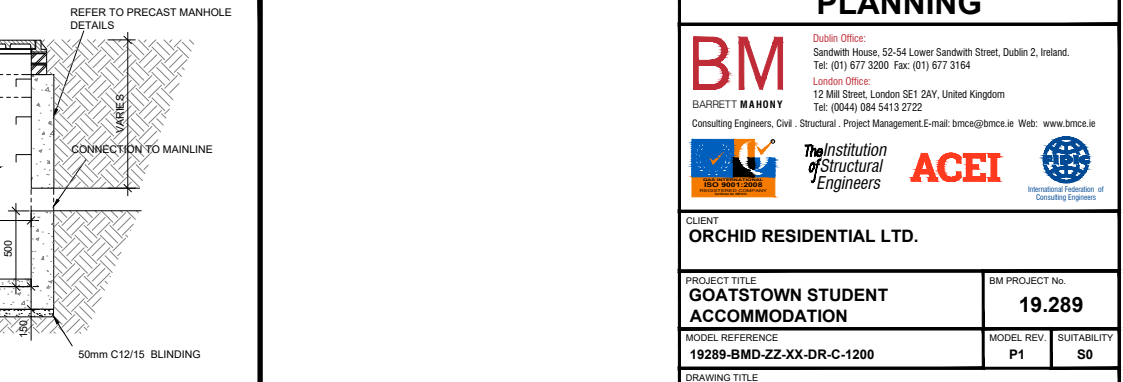
PIPE DIAMETER A (mm)	TRENCH WIDTH B (mm)
80 RISING MAIN	SEE NOTE 10.
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

A TRENCH BACKFILL & BEDDING

- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- SOLID BLOCKWORK TO BE OF HIGH STRENGTH (20 N/mm² TO EN 771).
- MAXIMUM MANHOLE IS 2.1m.
- FOR ALL BLOCKWORK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH USE WILL REQUIRE APPROVAL FROM THE EMPLOYER'S REPRESENTATIVE.
- AND WRITTEN APPROVAL FROM THE EMPLOYER'S REPRESENTATIVE.
- WALLS TO BE FLUSH POINTED TO A FINISH WITH AN INVERT FINISH.
- FOR FLOOR MANHOLES PROVIDE INTERNAL LINING OF ENGINEERING BRICK LAD ON FLAT & SET IN 1:3 CEMENT MORTAR TO BE BONDING TO BLOCK WORK USING ENGLISH GARDEN WALL BOND.
- STRUCTURAL DESIGN AND DETAILS TO BE PROVIDED BY THE EMPLOYER'S REPRESENTATIVE FOR APPROVAL FROM THE EMPLOYER'S REPRESENTATIVE.
- COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM THE EMPLOYER'S REPRESENTATIVE.
- 200 mm ALL AROUND, 100 mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS METAL BAND AROUND COVERS IN GREEN AREAS.
- ALL CHAMBERS TO BE CHECKED FOR UP TO THE CONTRACTOR BASED ON GROUND CONDITIONS WITHIN THE SITE. SHED AND FLOTATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM THE EMPLOYER'S REPRESENTATIVE.
- ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206: 2013.
- BRANCHES INTO MANHOLES TO BE SHARPED SO AS TO GUIDE THE FLOW IN THE FLOW DIRECTION. THE MINIMUM LENGTH OF THE MANHOLE BASED ON THE SIDE WITH THE GREATER NUMBER OF BRANCHES EQUAL TO 200mm PLUS THE SUM OF THE BRANCH DIAMETERS PLUS 200mm PER BRANCH OR BRANCHES UP TO 100mm OR 100mm FOR BRANCHES GREATER THAN 100mm DIAMETER.
- WHERE PIPE DIAMETER CHANGES AT A MANHOLE THE PIPE CROWNS ARE TO LINE UP ALL MANHOLES TO BE WATER TIGHT TO THE SATISFACTION OF THE EMPLOYER'S REPRESENTATIVE.

**B CONCRETE BED & HAUNCH****B2 FULL CONCRETE ENCASUREMENT****C DRAIN LAID NEAR FOUNDATIONS****D REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD****E TYPICAL SECTION THROUGH ROAD GULLY****E2 BRICK ROAD GULLY****F BLOCKWORK MANHOLE < (450mm DIAMETER & DEPTH) TO INVERT < 2m****G PRE-CAST CONCRETE MANHOLE****H IN-SITU CONCRETE MANHOLE****I BACKDROP MANHOLE**

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

J MINIMUM MANHOLE DIAMETERS**K HYDRO-BRAKE MANHOLE DETAIL****L TYPICAL SUMP INLET MANHOLE****M BLOCKWORK MANHOLE > (450mm DIAMETER & DEPTH) TO INVERT > 2m****N PRE-CAST CONCRETE MANHOLE****O IN-SITU CONCRETE MANHOLE****P BACKDROP MANHOLE****Q TYPICAL SECTION THROUGH ROAD GULLY****R BRICK ROAD GULLY****S BLOCKWORK MANHOLE > (450mm DIAMETER & DEPTH) TO INVERT > 2m****T PRE-CAST CONCRETE MANHOLE****U IN-SITU CONCRETE MANHOLE****V BACKDROP MANHOLE****W HYDRO-BRAKE MANHOLE DETAIL****X TYPICAL SUMP INLET MANHOLE**

PLANNING		
PL2	11.01.22	REVISED PLANNING APPLICATION
PL1	04.09.20	ISSUED FOR PLANNING
ISSUE	DATE	DESCRIPTION
DRAWING STAGE		
Client: ORCHID RESIDENTIAL LTD.		
Project Title: GOATSTOWN STUDENT ACCOMMODATION		
Model Ref: 19289-BMD-ZX-DR-C-1200		
Model Ver: P1		
Model Status: SU		
Model Author: BA		
Model Checker: BA		
Model Approver: BA		
Model Date: 11/01/22		
Model Version: 1		
Model Status: SU		
Model Author: BA		
Model Checker: BA		
Model Approver: BA		
Model Date: 11/01/22		
Model Version: 1		