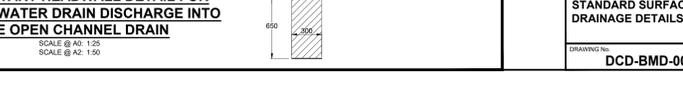
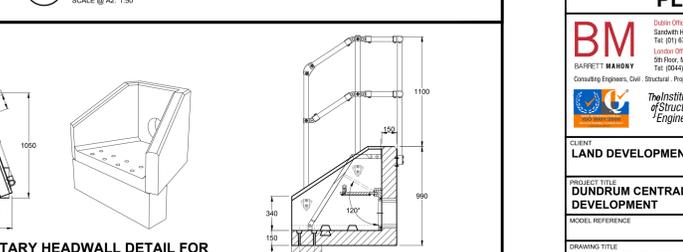
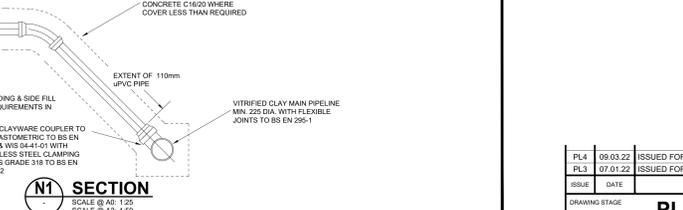
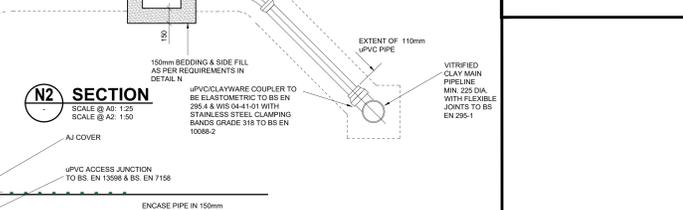
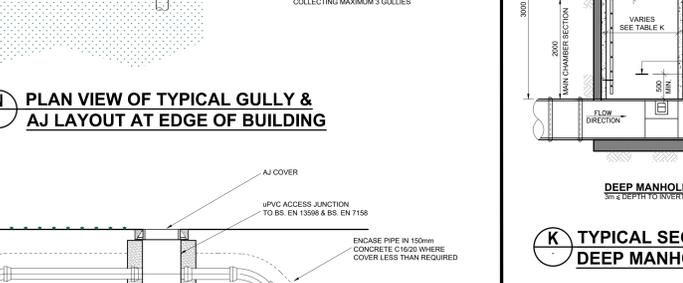
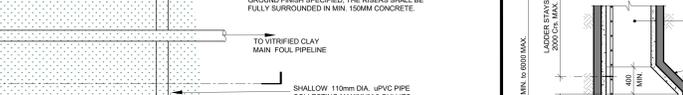
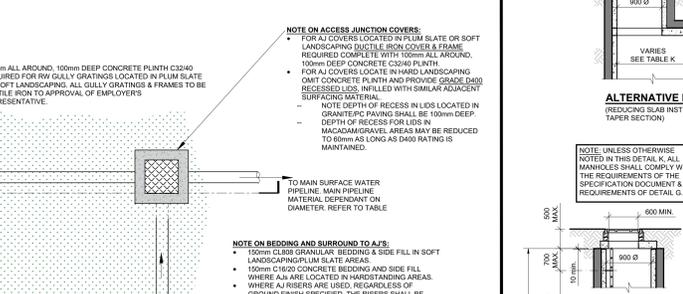
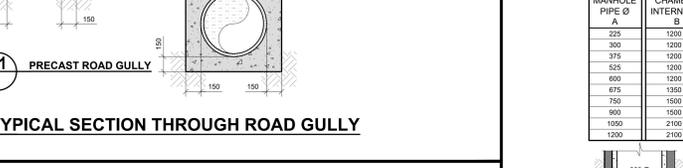
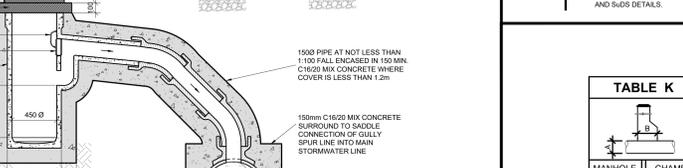
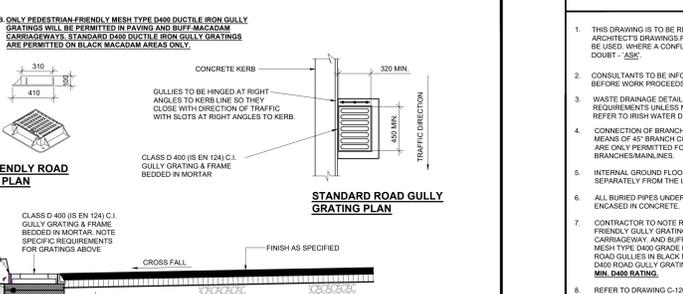
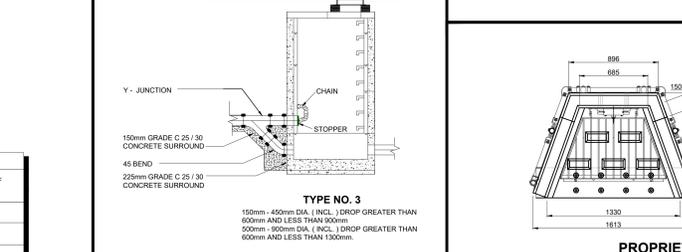
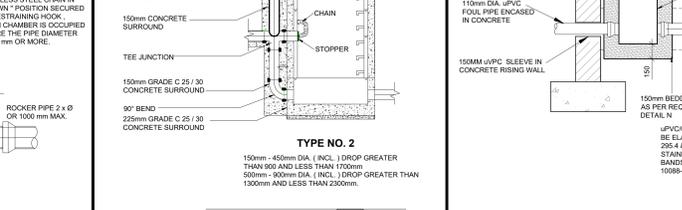
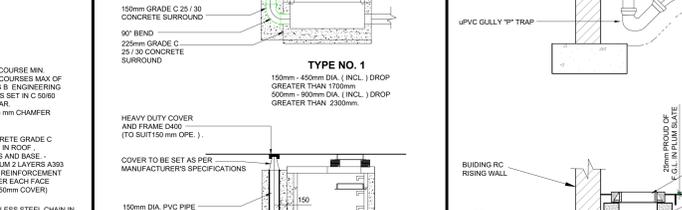
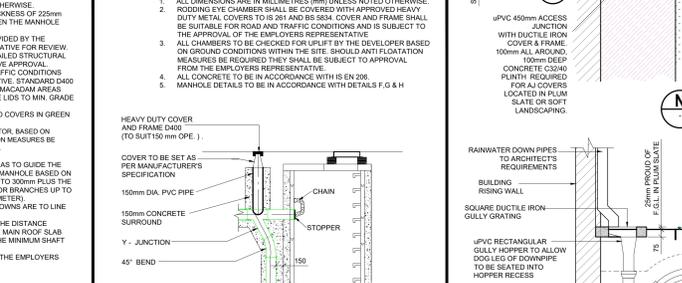
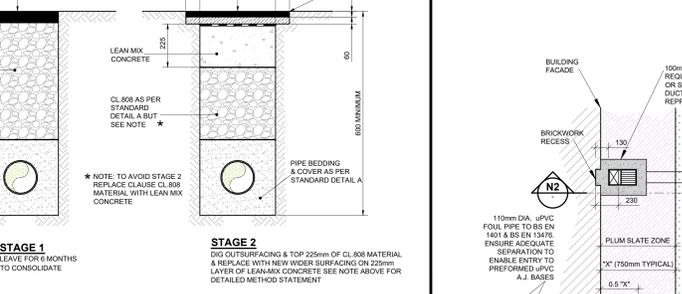
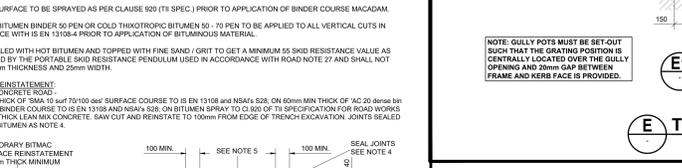
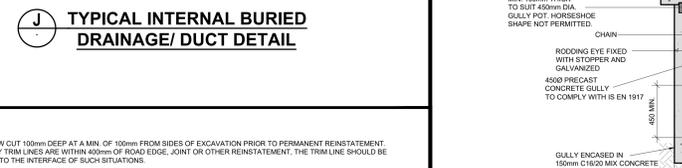
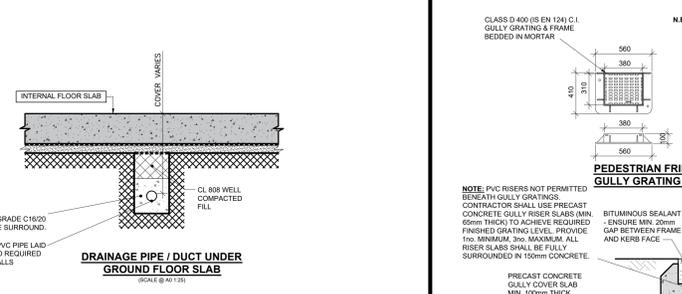
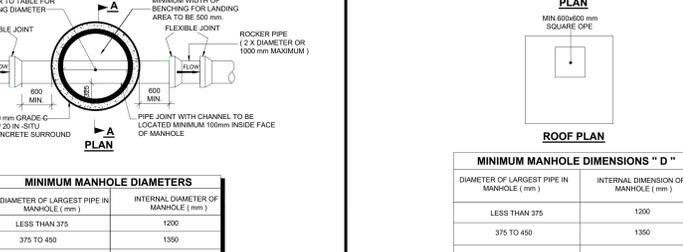
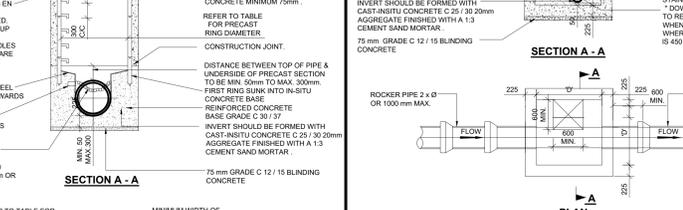
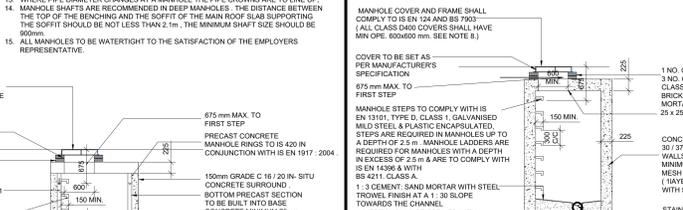
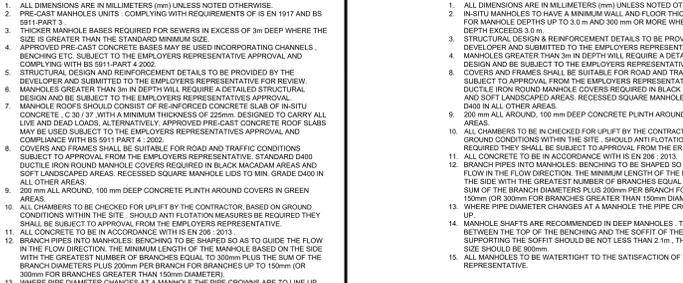
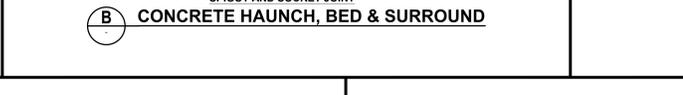
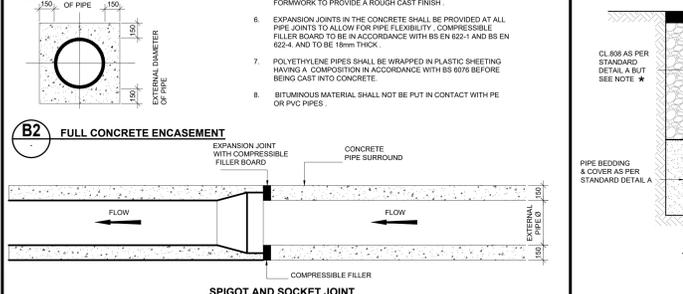
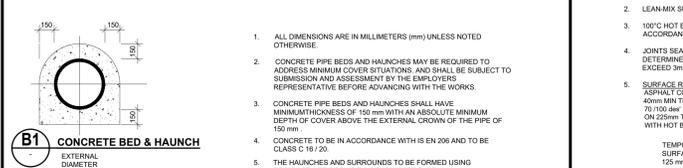
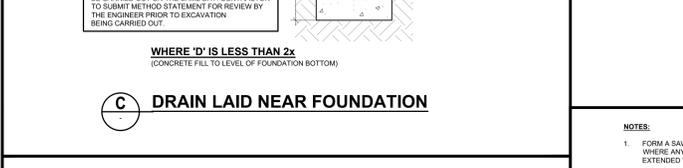
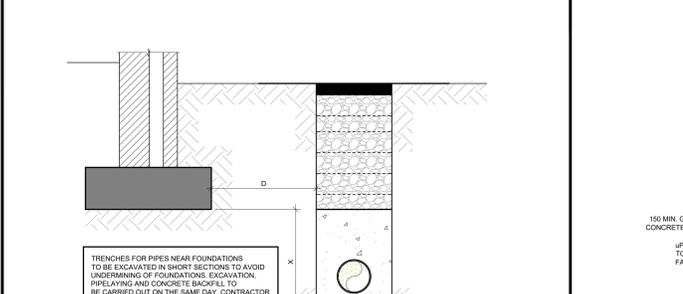
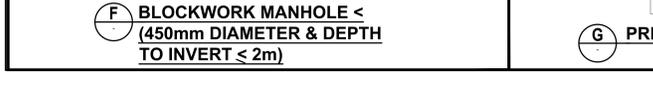
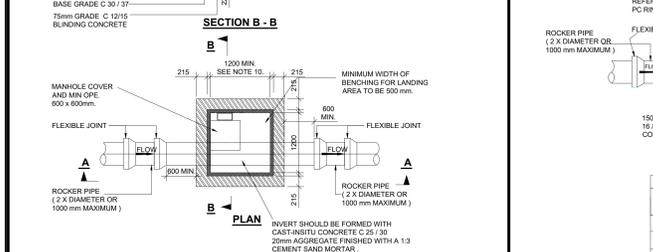
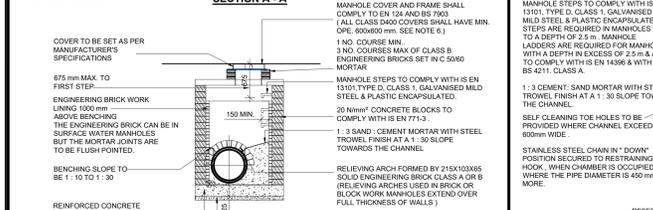
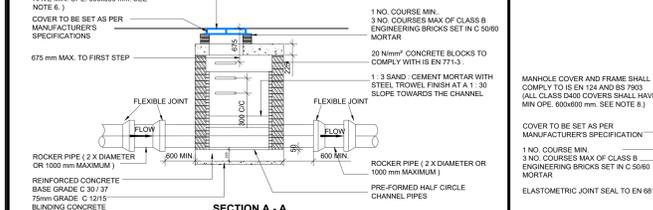
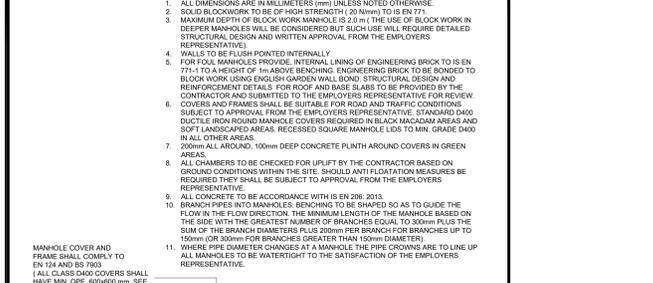
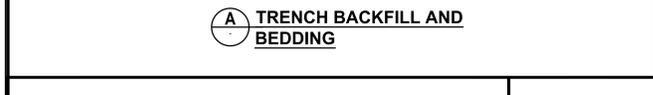


**PIPE MATERIALS**

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

PIPE DIAMETER (mm)	TRENCH WIDTH (mm)
80 RISING MAIN	SEE NOTE 5
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900
750	1500

1. CONCRETE PIPES TO HAVE SPOUT & SOCKET JOINTS AND RUBBER RING FITTINGS TO EN 1011, EN 1012, EN 1013, EN 1014, EN 1015 & IS 8004.  
 2. VITRIFIED CLAY PIPES & FITTINGS TO HAVE FLEXIBLE JOINTS AND TO COMPLY WITH EN 1256.  
 3. uPVC PIPE JOINTS AND FITTINGS TO COMPLY WITH THE PROVISION OF PART 1 AND BS 4660 NOTE: uPVC PIPES NOT PERMITTED IN AREAS TO BE TAKEN IN CHARGE BY DUBLIN CITY COUNCIL.

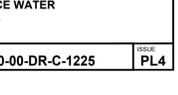
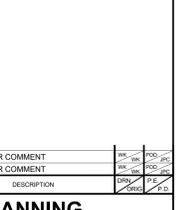
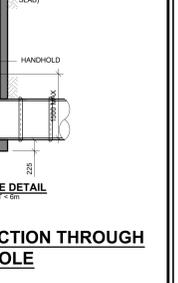
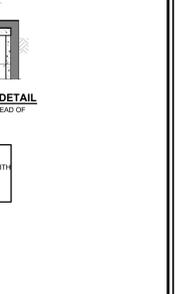
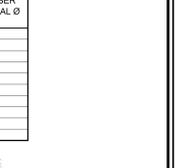


**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FOURIFIED DIMENSIONS ONLY (NOT SCALING) TO BE USED, WHERE A CONFLICT OF INFORMATION EXISTS OR IF 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. SAGLE CONNECTIONS ARE ONLY PERMITTED FOR CONNECTING GULLY TAILS TO BRANCHES/MANHOLES.
- CONNECTION OF BRANCHES TO THE MAIN LINE ARE TO BE BY MEANS OF 45° BRANCH CONNECTIONS. SAGLE CONNECTIONS ARE ONLY PERMITTED FOR CONNECTING GULLY TAILS TO BRANCHES/MANHOLES.
- INTERNAL GROUND FLOOR FLOOR CONNECTIONS TO DRAIN SEPARATELY FROM THE UPPER STOREYS.
- ALL BURIED PIPES UNDER GROUND FLOOR SLABS TO BE ENCASED IN CONCRETE.
- CONTRACTOR TO NOTE REQUIREMENTS FOR PEDESTRIAN FRIENDLY GULLY GRATING ON THE GRANTIE SHARED SURFACE CARRIAGEWAYS AND BUFF MACADAM ROADS. THESE SHALL BE A MESH TYPE D400 GRADE DUCTILE IRON GULLY GRATING. STANDARD D400 GRADE DUCTILE IRON GULLY GRATING SHALL BE USED ON BLACK MACADAM AREAS ONLY.
- REFER TO DRAWING C-120 FOR PERMISSIBLE PAVING DRAINAGE AND SAGLE DETAILS.

**TABLE K**

MANHOLE PIPE Ø	CHAMBER INTERNAL Ø
225	1200
300	1200
375	1200
525	1200
600	1200
675	1350
750	1500
900	1500
1050	2100
1200	2100



**PLANNING**

PLA	DATE	ISSUED FOR COMMENT	ISSUE	DATE	DESCRIPTION
PL1	09.03.22	ISSUED FOR COMMENT			
PL3	07.01.22	ISSUED FOR COMMENT			

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**ACET**  
 The Institution of Structural Engineers

**LAND DEVELOPMENT AGENCY**

PROJECT TITLE: **DUNDUM CENTRAL DEVELOPMENT** BM PROJECT NO: **20.170**  
 MODEL REFERENCE: **P1** SUBMITTAL: **S0**

DRAWING TITLE: **STANDARD SURFACE WATER DRAINAGE DETAILS**

DRAWING NO: **DCD-BMD-00-00-DR-C-1225** PAGE: **PL4**