

# < 12 BAR TEST PRESSURE

MOM.											
OIA. (mm)	A	ß	C	· D	E	F	G	H	J	K	
100	600	350	100	80	200	<b>40</b>	390	700	800	40	
<b>150</b>	<b>(31)</b>	<b>510</b>	280	130	<b>22</b> 5	450	660	900	750	Mi	
200	1150	<b>GNO</b>	310	150	300	620	790	1050	900	700	
20	1350	760	940	200	<b>S</b> (10	800	970	1200	1000	750	
<b>SID</b>	1680	850	450	223)	3 <b>2</b> 0	950	1110	1800	1100	050	
350	2100	1150	ਗ/ <b>0</b>	200	450	1000	1450	1550	1200	900	
4(0)	2550	1400	700	<b>350</b> )	310	1050	1800	1700	1250	1000	
450	3000	1(31)	830	420	<b>680</b>	1100	2130	1800	1450	115	
	3500	1950	(127)	500	£'4N	1200	2540	1950	1600	121	
[; [1']]	45140	2200	1120	570	<b>Gi</b>	1400	<b>7</b> (1)	2100	1700	1377	

# 12 BAR TO 15 BAR TEST PRESSURE

					DIMENSIONS					
CIA (nam)	A	E.	6	D	E	F	6	H	J	R
100	700		190	100	200	<b>\$</b> \$10	510	750	600	400
150	1185	( <del>210</del> )	320	(i)	224	450	760	250	750	600
200	1400	764	38V)	100	<b>K</b> :[[]]	(74)	990	1150	950	700
2400	1761	Mi	4(3)	2/10	<b>\$</b> 720	900	1210	1350	1030	æ
300	2090	1130	<b>50</b> 0	300		100	1480	1600	1200	950
<b>350</b>	2600	1410	720	<b>30</b> 0	500	1050	1840	1700	1950	1050
400	230	1810	(220	420)	760	1200	2110	1860	1500	1150
450	3460	1940	EW)	470	<b>580</b>	1300	2330	2000	1600	1250
500	460	2210	1150	āŭ	1600	1400	2000	2200	1750	1850
600	801C	2710	1300	700	1000	130	Eir	2360	1500	Hii
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# 15 BAR TO 18 BAR TEST PRESSURE

Nel/I	OMENSIONS										
CHA. (zam)	A	(3)	Ç	D	E	F	6	H	J	K	
100	750	400	205	100	24)	400	530	800	650	400	
150	1250	700	850	180	250	F(I)	880	1000	850	650	
200	1(5)	<b>880</b>	440	230	320	700	1170	1250	1009	ورق	
<b>经</b> (1)	1980	1060	540	270	530	900	1570	1450	1150	900	
300	2300	1200	640	320	500	1100	1630	1680	1300		
350	2830	1580	830	410	750	1200	2070	1850	1500	1160	
400	3810	1800	970	190*	1000	1300	2(9)	2000	1600	1250	
450	3910	727(i)	1160	580	1000	(E3)	2970	2150	1700	個	
510	4340*	2300	1210	610	1000	(45)	8700 L	PH	1730	1400	
800	SMF	345°	1760	660	1000	(50)	45101	200	2030	16.50	

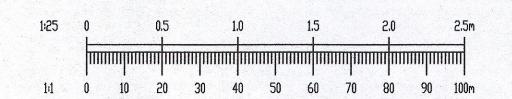
### TABLE OF DIMENSIONS FOR STEEPLY INCLINED PIPELINES SPACING GRADIENT 5.5m 1 IN 2 & STEEPER 11.0m BELOW 1 IN 2 TO 1 IN 4 16.6m 1 IN 4 TO 1 IN 5 22.0m 1 IN 5 TO 1 IN 6

# WATERMAIN THRUST AND SUPPORT BLOCKS STD-W-28

- 1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. CONCRETE THRUST BLOCKS (ANCHORAGE) SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS. 3. TRENCH DIMENSIONS : DRAWING No's. STD-W-13.
- 4. THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL, IF FOR ANY REASON THEY CANNOT THEN THE DEVELOPER SHALL, NOTIFY IRISH WATER IMMEDIATELY WITH A PROPOSED SOLUTION.
- 5. THRUST BLOCK REINFORCEMENT REQUIRE SPECIFIC DESIGN.
- 6. FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO IRISH WATER FOR APPROVAL.
- 7. THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100 KN/m (TYPICAL FOR SOFT CLAY) FOR OTHER CONDITIONS. ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM IRISH WATER. 8. CONCRETE IN THRUST BLOCKS SHALL BE GRADE C20/25. 9. COMPRESSIBLE FILLER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4. BITUMINOUS
- MATERIAL SHALL NOT BE PUT IN CONTACT WITH PLASTIC PIPES. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN
- 10. CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURES REQUIREMENTS. 11. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE
- BEING CAST INTO CONCRETE. 12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

#### NOTES:

- 1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
- 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
- 3. WATERMAINS SHALL BE LAID IN ACCORDANCE WITH THE LOCAL AUTHORITY /IRISH WATER SPECIFICATION FOR THE LAYING OF NEW WATERMAINS AND BYLAWS WHICH OVER-RIDE THESE NOTES. THE CONSTRUCTION OF THE WATERMAIN SHALL BE IN ACCORDANCE WITH THE BEST CURRENT PRACTICE AND THE LATEST EDITIONS OF THE RELEVANT STANDARDS AND CODES OF PRACTICE.
- 4. WATERMAINS SHALL NOT BE LAID UNDER WALLS OR AREAS DESIGNATED FOR TREES/SHRUBS/FLOWERS.
- 5. PIPES SHALL BE HDPE (BLUE PIPE) UNLESS NOTED OTHERWISE BY AGREEMENT WITH THE LOCAL AUTHORITY. DUCTILE IRON PIPES SHALL BE USED UNDER ROADS OF CLASSIFICATION "DISTRICT DISTRIBUTOR" UPWARDS UNLESS NOTED OTHERWISE.
- 6. PIPES SHALL CONFORM TO THE UK WATER INDUSTRY SPECIFICATION OR EQUIVALENT E.U. SPECIFICATION.
- 7. DUCTILE IRON (DI) PIPES SHALL CONFORM TO IS EN 545 AND SHALL HAVE MINIMUM C40 PRESSURE RATING. DUCTILE IRON FITTINGS SHALL HAVE 16 BAR RATING AT LEAST DI PIPEWORK SHALL BE COATED INTERNALLY WITH A BLAST FURNACE CEMENT LINING WHICH COMPRISES WITH THE REQUIREMENTS OF BS 6920. EXTERNAL PROTECTION SHALL INCLUDE AN ALLOY OF ZINC AND ALUMINUM WITH A MINIMUM 15% ALUMINUM WITH OR WITHOUT OTHER MATERIALS HAVING A MASS OF 400g/m<sup>2</sup> COMPETE WITH A FINISHING LAYER OF BLUE FUSION BONDED EPOXY IN ACCORDANCE WITH IS EN 14901.
- 8. WATERMAINS SHALL BE LAID UNDER FOOTPATHS PREFERABLY OR GRASS MARGINS WHERE APPROVED. NO PIPE, CONDUIT, CABLE OR OTHER SERVICE SHALL BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN. NO CABINET POLES, JUNCTION BOXES OR CHAMBERS SHALL BE CONSTRUCTED OVER A WATERMAIN.
- 9. THE MINIMUM COVER TO A WATERMAIN SHALL BE 750mm, THE MAXIMUM COVER SHALL BE 900mm UNLESS NOTED OTHERWISE.
- 11. CONNECTIONS TO THE MAINS WHICH ARE THE PROPERTY OF THE IRISH WATER CAN BE MADE BY THE IRISH WATER ONLY. NO OTHER PERSON MAY INTERFERE IN ANY WAY WITH THESE MAINS. SUCH CONNECTIONS WILL BE MADE BY IRISH WATER AT THE EXPENSE OF THE PERSONS REQUIRING THEM. THE ESTIMATED COST OF SUCH CONNECTIONS MUST BE LODGED WITH IRISH WATER BEFORE THE WORK IS UNDERTAKEN.
- 12. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS. THE CODE OF PRACTICE AND STANDARD DETAILS ARE AVAILABLE TO DOWNLOAD FROM THE IRISH WATER WEB SITE AT <u>WWW.WATER.IE/CONNECTIONS/DEVELOPER-SERVICES/</u> WHERE THE DETAILS CONTAINED ON THIS DRAWING DIFFER FROM THE IRISH WATER CODE OF PRACTICE OR STANDARD DETAILS THIS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. IRISH WATER STANDARDS WILL TAKE PRECEDENCE



REV. DATE **AMENDMENT** DRN APPD

# STATUS PLANNING

DRAWN

1:25 @ A1



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CLIENT	QUINTAIN	
ARCHITECT	BKD ARCHITECTS	
PROJECT		
	CLONBURRIS	
TITLE		

SHEET 2 OF 4 APPROVED DATE DESIGNED JAN 2023 JOB NO. DRG. NO. REVISION

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