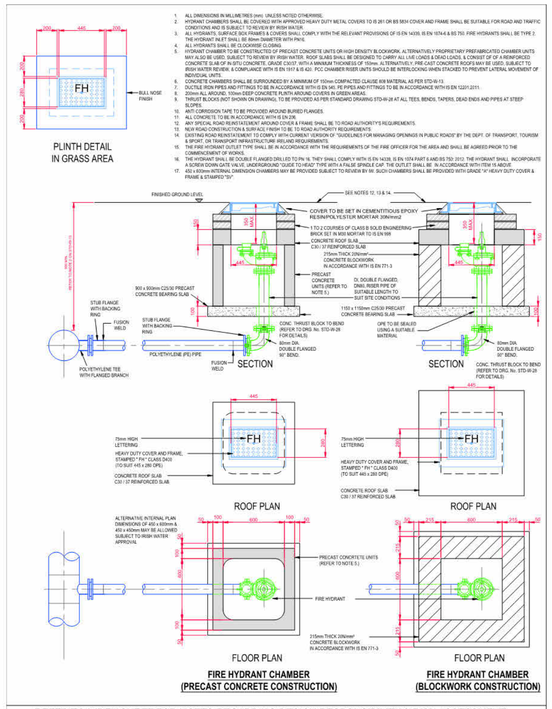
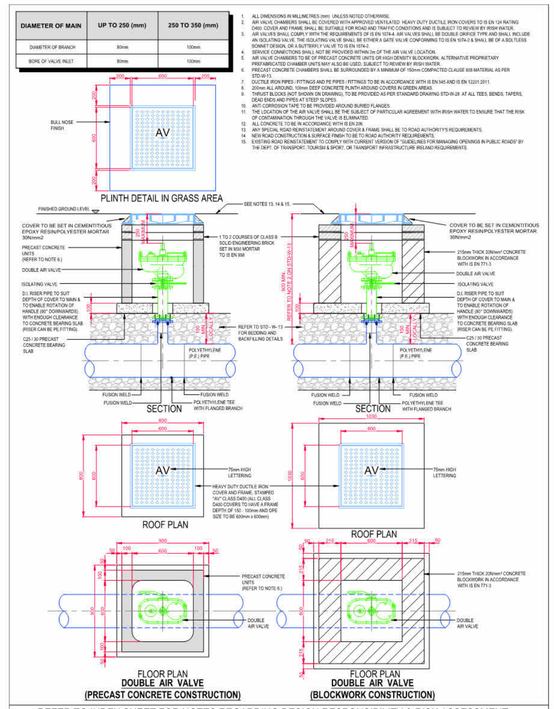


REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

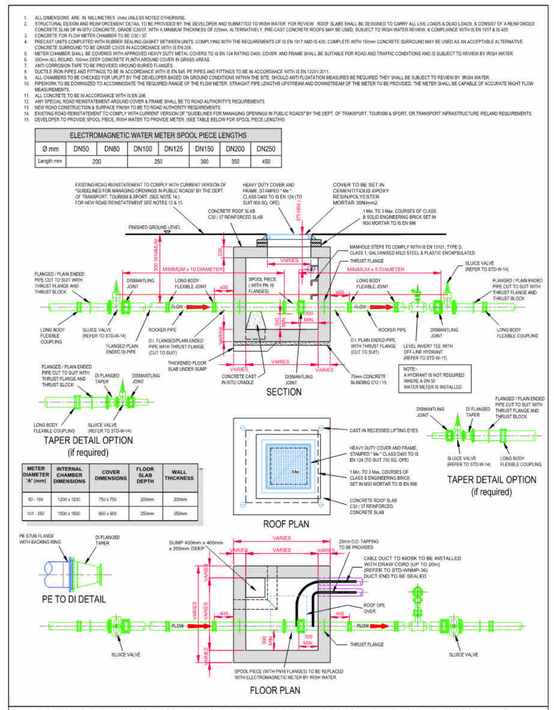
UISCE ÉIREANN : IRISH WATER	4	07/20/RH	TOC	Added notes re. hyd. outlet & plan dims, & revised branch size in PE	WD	STANDARD DETAILS - WATER	SCALE: NOT TO SCALE; DATE: SEPT. 2015
	3	11/17/	JMC/TOC	Revised & added notes, & revised pipework	WD	TITLE: OFF - LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE (Sheet 4 of 4)	DRAWING No.: STD-W- 19; REV: 4
	2	09/16	JMC/TOC	Revised notes 2, 3 & 6	WD		
	1	04/16	JMC/TOC	Added thrust blocks	WD		
	0	09/15	JMC/TOC	Initial issue	SL		
	No.	Date	Drn.	Chk.	Description	App.	



DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm

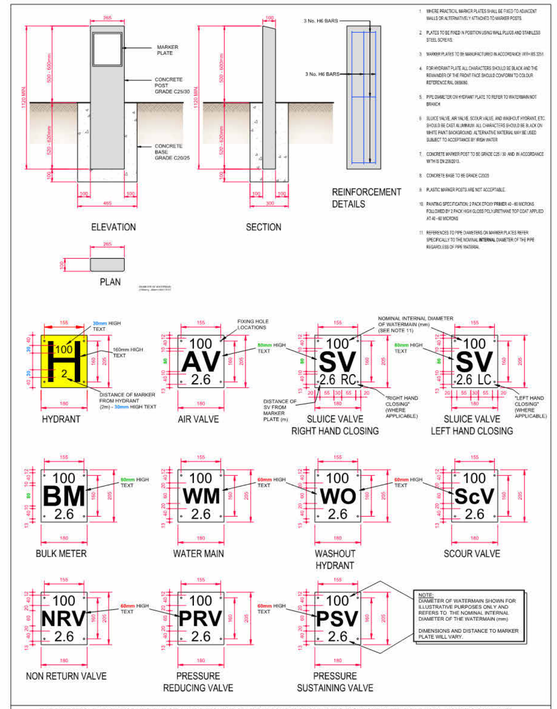
REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

UISCE ÉIREANN : IRISH WATER	3	07/20/RH	TOC	Updated brickwork bedding mortar spec.	WD	STANDARD DETAILS - WATER	SCALE: NOT TO SCALE; DATE: SEPT. 2015
	2	11/17/	JMC/TOC	Added & updated notes	WD	TITLE: ON - LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE (Sheet 3 of 4)	DRAWING No.: STD-W- 22; REV: 3
	1	09/16	JMC/TOC	Revised notes 2,3,4 & 7	WD		
	0	09/15	JMC/TOC	Initial issue	SL		
	No.	Date	Drn.	Chk.	Description	App.	



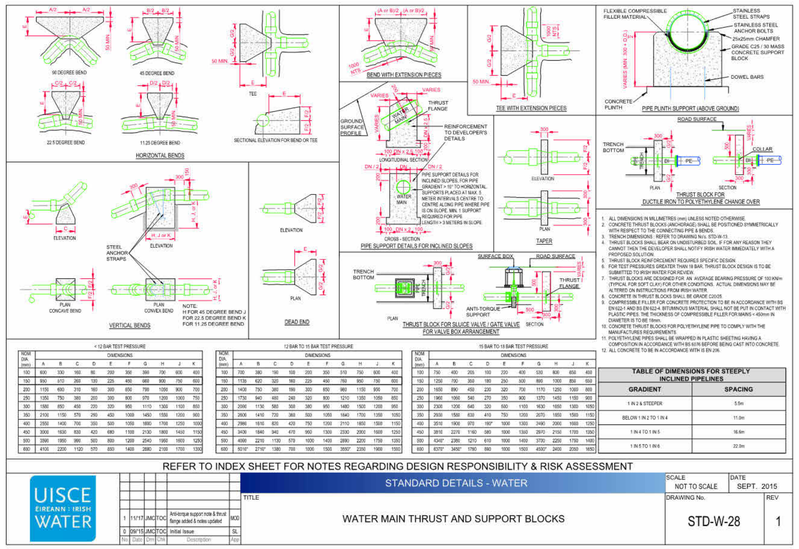
REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

UISCE ÉIREANN : IRISH WATER	4	07/20/RH	TOC	Note (coded) spud weights table included	WD	STANDARD DETAILS - WATER	SCALE: NOT TO SCALE; DATE: SEPT. 2015
	3	11/17/	JMC/TOC	Revised notes & added table & bracket	WD	TITLE: ELECTROMAGNETIC METER CHAMBER (80 - 250mm DIA.)	DRAWING No.: STD-W- 26; REV: 4
	2	09/16	JMC/TOC	Added steps & revised cover notes	WD		
	1	04/16	JMC/TOC	Added couplings to details	WD		
	0	09/15	JMC/TOC	Initial issue	SL		
	No.	Date	Drn.	Chk.	Description	App.	



REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

UISCE ÉIREANN : IRISH WATER	3	07/20/RH	TOC	Additional Marker Plates included and Revised Notes	WD	STANDARD DETAILS - WATER	SCALE: NOT TO SCALE; DATE: SEPT. 2015
	2	11/17/	JMC/TOC	Added BV plate & updated notes	WD	TITLE: MARKER POSTS / PLATES	DRAWING No.: STD-W- 27; REV: 3
	1	04/16	JMC/TOC	Added washout hydrant plate	WD		
	0	09/15	JMC/TOC	Initial issue	SL		
	No.	Date	Drn.	Chk.	Description	App.	



1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. CONCRETE THRUST BLOCKS (ANCHORAGE) SHALL BE POSITIONED SYMMETRICALLY ABOUT THE JOINT TO BE RESTRAINED.
3. TRENCH DIMENSIONS - REFER TO DRAWING No.: 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 REQUIRES 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 ASSUMED BEARING PRESSURE OF 100 kN/m² (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 CONCRETE. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS > 450mm IN DIAMETER IS TO BE 19mm
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.

< 12 BAR TEST PRESSURE

NOM DIA (mm)	DIMENSIONS A	B	C	D	E	F	G	H	J	K
100	800	330	565	80	200	300	398	705	805	400
150	850	670	268	130	225	400	989	906	756	600
200	1150	650	310	180	300	650	798	1056	905	700
250	1350	750	380	200	350	800	979	1200	1060	750
300	1500	850	450	220	320	900	1115	1300	1120	800
350	2100	1170	575	250	400	1000	1480	1556	1300	900
400	2550	1406	700	300	500	1050	1890	1706	1250	1000
450	3000	1600	800	420	680	1150	2130	1900	1400	1150
500	3586	1950	966	500	800	1289	2540	1956	1600	1250
600	4100	2200	1120	570	850	1400	2880	2100	1700	1300

12 BAR TO 15 BAR TEST PRESSURE

NOM DIA (mm)	DIMENSIONS A	B	C	D	E	F	G	H	J	K
100	700	380	190	100	200	300	370	750	900	400
150	1130	620	320	160	225	400	760	950	700	600
200	1400	750	380	190	300	650	860	1150	950	700
250	1750	940	480	240	320	800	1210	1350	1050	850
300	2090	1130	580	300	380	950	1480	1520	1200	950
350	2436	1410	720	360	500	1050	1840	1750	1350	1050
400	2986	1810	920	430	750	1200	2110	1850	1500	1150
450	3438	1940	940	470	950	1300	2350	2050	1600	1200
500	4086	2210	1130	570	1000	1400	2880	2200	1700	1250
600	5010"	2710"	1380	700	1000	1500	3550"	2200	1900	1550

15 BAR TO 18 BAR TEST PRESSURE

NOM DIA (mm)	DIMENSIONS A	B	C	D	E	F	G	H	J	K
100	750	400	205	100	220	450	520	800	650	450
150	1250	700	350	180	250	500	800	1000	850	650
200	1650	890	450	220	320	750	1170	1250	1000	800
250	1960	1066	540	270	350	900	1370	1450	1150	900
300	2300	1206	640	320	500	1100	1630	1650	1300	1050
350	2920	1560	830	410	750	1200	2070	1850	1500	1150
450	3516	1906	970	190*	1000	1300	2490	2000	1650	1250
500	3916	2270	1160	585	1000	1500	2870	2100	1700	1300
600	4340*	2380	1210	610	1000	1450	3730	2250	1750	1400
700	6370*	3450*	1790	890	1000	1500	4500*	2450	2000	1650

TABLE OF DIMENSIONS FOR STEEPLY INCLINED PIPELINES

GRADIENT	SPACING
1 IN 2 & STEEPER	5.5m
BELOW 1 IN 2 TO 1 IN 4	11.0m
1 IN 4 TO 1 IN 5	16.6m
1 IN 5 TO 1 IN 6	22.0m

REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

UISCE ÉIREANN : IRISH WATER	1	11/17/	JMC/TOC	Anti-torque support note & thrust flange added & notes updated	WD	STANDARD DETAILS - WATER	SCALE: NOT TO SCALE; DATE: SEPT. 2015
	0	09/15	JMC/TOC	Initial issue	SL	TITLE: WATER MAIN THRUST AND SUPPORT BLOCKS	DRAWING No.: STD-W-28; REV: 1
	No.	Date	Drn.	Chk.	Description	App.	

DOSA
DENIS O'SULLIVAN & ASSOCIATES CONSULTING ENGINEERS
Joyce House
Barrack Square
Ballincollig
Co Cork
P31 KP84
021 4871781
info@dosa.ie | www.dosa.ie

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REV.	DRAWN	DATE	DETAILS
C	D.O'S.	27.04.'26	Issued For Planning

CLIENT: Dipharma Unlimited Company.

PROJECT: Development at Countess Road, Killarney, Co. Kerry

DRAWING TITLE: Proposed Watermain Details (Sheet 2 of 2).

SHEET	SCALE	DRAWN	CHECKED	APPROVED	PROJECT NO.	DRAWING NO.	STATUS/ISSUE
A1	1 : 1	D.O'S.	S.O'G.	L.O'T.	7334	0036	C