SLUICE ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER. SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, BS 5163-2, IS EN 1074-1, IS EN 1074-2 OR EQUIVALENT E.U SPECIFICATIONS ALL SLUICE VALVES SHALL BE ANTI CLOCKWISE CLOSING. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH EN 12201:2011 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVER IN GREEN ARFAS. VALVE NOTES: HYDRANT NOTES: ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 261 AND BS 58.34 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER. ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14.339, IS EN 1074-6 & BS.750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN.16. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING. HYDRANT CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.

Dimensions and details

1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY

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.

WATERMAINS SHALL NOT BE LAID UNDER WALLS OR AREAS DESIGNATED FOR TREES/SHRUBS/FLOWERS

PIPES SHALL BE HDPE (BLUE PIPE) UNLESS NOTED OTHERWISE BY AGREEMENT WITH THE LOCAL THORITY. DUCTILE IRON PIPES SHALL BE USED UNDER ROADS OF CLASSIFICATION "DISTRICT STIBUTOR" UPWARDS UNLESS NOTED OTHERWISE.

trix can be supplied to suit imperial pipes in

indard Unit (20mm, 25mm connections)

RUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS F PERS, DEAD ENDS AND PIPES AT STEEP SLOPES. VII—CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. L CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

COV CLASS B ENGINEERING BRICK
SET IN C50/60 MORTAR— TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS,

THRUST BLOCKS (NOT SHOWN ON D TAPERS, DEAD ENDS AND PIPES AT : ANTI CORROSION TAPE TO BE PROVII ALL CONCRETE TO BE IN ACCORDAN

VIDED AROUND BURIED FLANGES.

FINISHED GROUND LEVEL

CONCRETE ROOF SLAB C28 / 35 REINFORCED SLAB

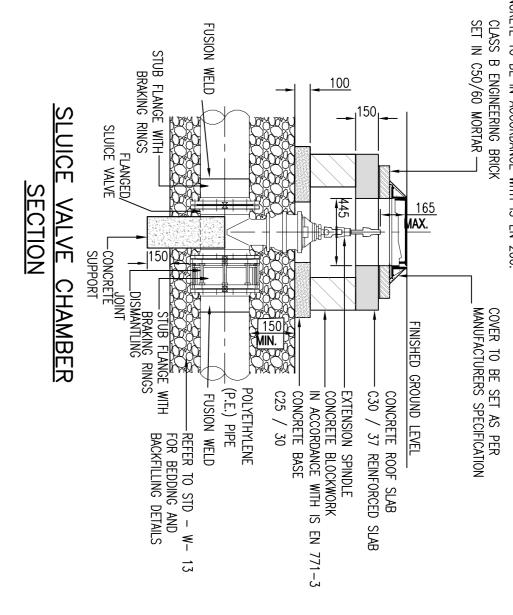
215mm THICK 20N/mm² CONCRETE BLOCKWORK IN ACCORDANCE WITH IS EN 771-3

CONCRETE BASE C30 / 37

REFER TO STD - W- 13 FOR BEDDING AND BACKFILLING DETAILS

COVER TO BE SET AS PER MANUFACTURERS SPECIFICATION

DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, STEEP SLOPES.



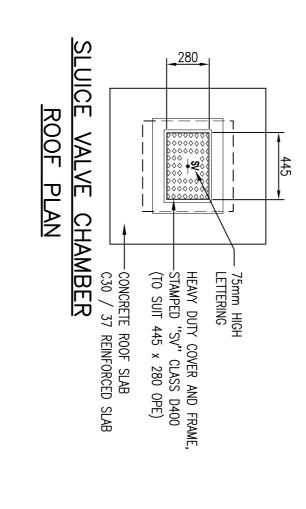
FUSION WELD

POLYETHYLENE (P.E.) PIPE

FUSION WELD-

FUSION WELD
POLYETHYLENE TEE WITH FLANGED
BRANCH OR ELECTRO FUSION SADDLE

SECTION (SCALE 1:25)



ROOF

PLAN

CONCRETE ROOF SLAB
C30 / 37 REINFORCED SLAB

HEAVY DUTY COVER AND FRAME, —STAMPED "FH" CLASS D400 (TO SUIT 445 × 280 OPE)

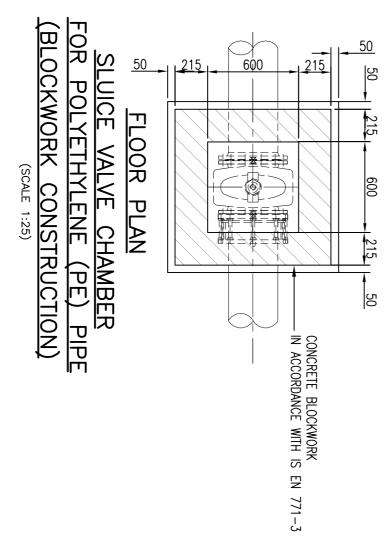
75mm HIGH LETTERING

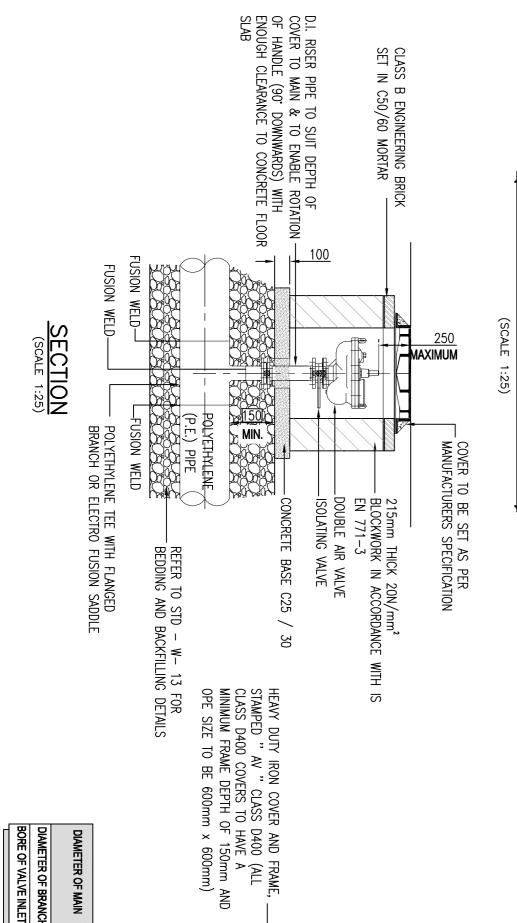
PLINTH

DETAIL

IN GRASS

- STAINLESS STEEL METAL BAND

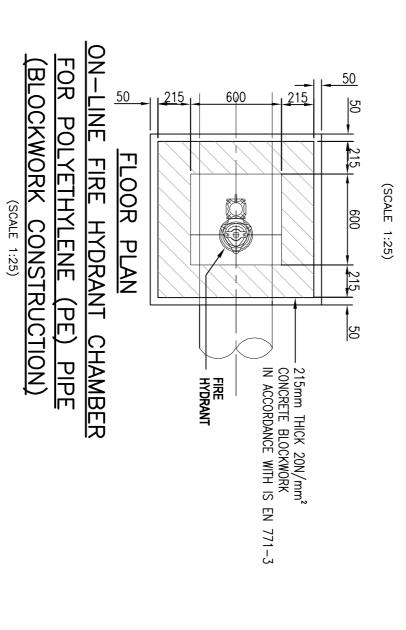


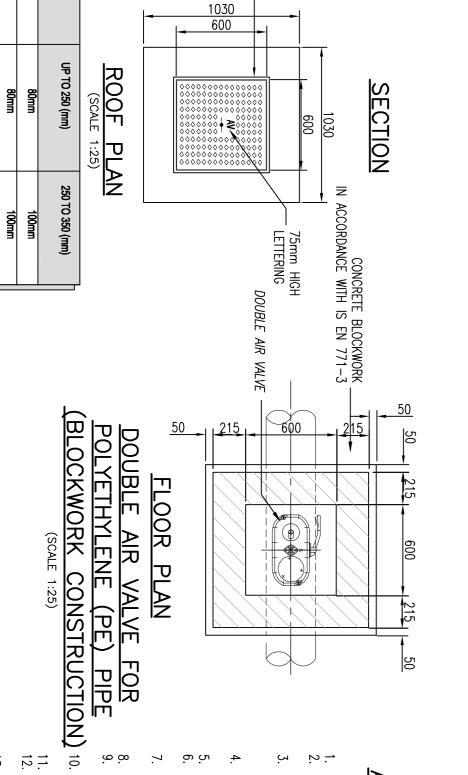


DIAMETER OF BRANCH BORE OF VALVE INLET

DIAMETER OF MAIN

CLASS B ENGINEERING BRICK SET IN C50/60 MORTAR --





AIR VALVE NOTES:

			1	/															
13.	12.		\	5	9.	œ		7.			<u>5</u>		4.			3.		2	
OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.	THE LOCATION OF THE AIR VALVE SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK	ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.	BENDS. TAPERS. DEAD ENDS AND PIPES AT STEEP SLOPES.	AREAS.	200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN	DUCTILE IRON PIPES / FITTINGS AND PE PIPES / FITTINGS TO BE IN ACCORDANCE WITH IS EN 545 AND IS EN 12201:2011.	STD-W-13.	PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER	CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER.	AIRVALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVE PROPRIETARY PREFABRICATED	SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.	ACCORDANCE WITH BS EN 1092. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WITH AN ISOLATING VALVE.	THE AIR VALVES SHALL HAVE BODIES AND COVERS OF CAST IRON TO BS 1563 WITH FLANGES DRILLED TO PN 16 IN	DESIGN	INCLUDE AN ISOLATING. THE ISOLATING VALVE SHALL BE A GATE CONFORMING IS EN 1074-2 & SHALL BE OF A BOLTLESS BONNET	AIR VALVES SHALL BE COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4, AIR VALVE SHALL BE DOUBLE ORIFICE TYPE AND SHALL	COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.	AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400.	ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

1:25 **@** A1

JOB NO. 15-194
No part of this documentsission of the con-

P031

DESIGNED **PJD**

APPROVED **MD**

DATE SEPT 18'

87(r	87.	窯	ding In:				<u> </u>	
A(min) 870mm		545mm	sh heav	× 360	∞ .	E		
B 208mm	208mm	208mm	vy gauge an	ROTATI		ı	DISTAN OF ME	WATER SUPPLY BOUNDARY BOX DETAILS
C 151mm	151mm	151mm	uding Irish heavy gauge and normal gauge imperial pipes.	ON ON S	TILT ON SURFACE BOX	 .	DISTANCE FROM TOP OF METER MOUNT TO UNITS FOOT PRINT	LY BO
D 20mm	20mm	20mm	uge imperial	SURFACE	-	— ^D -	I TOP INT TO	
112mm	112mm	112mm	pipes.	360' ROTATION ON SURFACE BOX FLANGE	工			
170mm	170mm	170mm		NGE				
G 173mm	173mm	173mm			<u> </u>	Н_] _	50 r	! :
225mm	225mm	225mm					, 50 mm FINAL HIGHT ADJUSTMENT ON SURFACE BOX	
Weight 4.5kg	4.5kg	3.4kg	•				TMENT BOX	

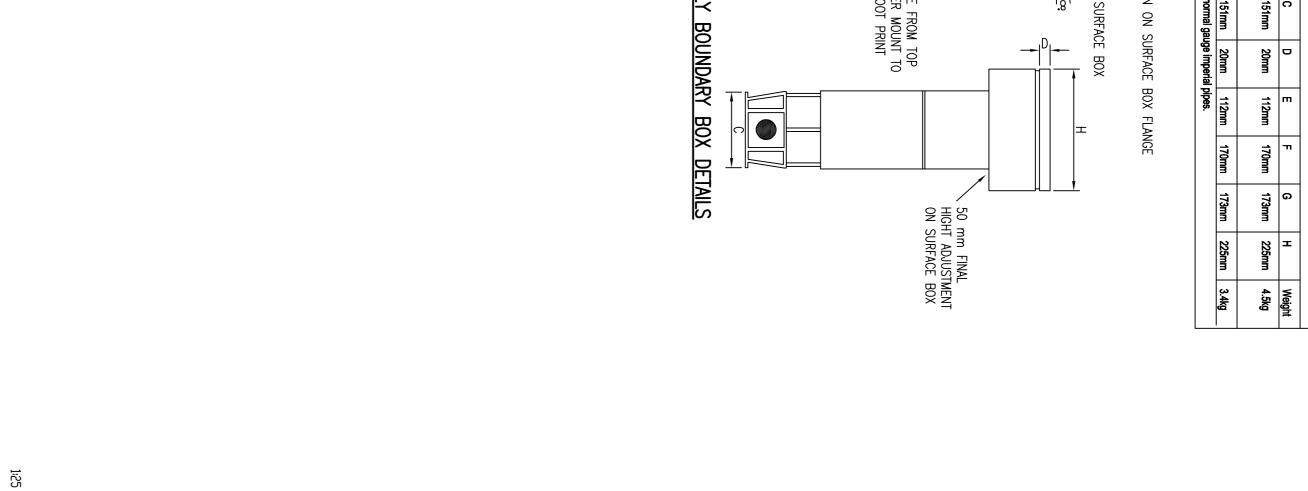
11. CONNECTIONS TO THE MAINS WHICH ARE THE PROPERTY OF THE IRISH WATER CAN BE MADE BY THE IRISH WATER ONLY. NO OTHER PERSON MAY INTERFERE IN ANY WAY WITH THESE MAINS. SUCH CONNECTIONS WILL BE MADE BY IRISH WATER AT THE EXPENSE OF THE PERSONS REQUIRING THEM. THE ESTIMATED COST OF SUCH CONNECTIONS MUST BE LODGED WITH IRISH WATER BEFORE THE WORK IS UNDERTAKEN.

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 https://www.water.ie/connections/developer-services/ 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

9. THE MINIMUM COVER TO A WATERMAIN SHALL BE 750mm, THE MAXIMUM COVER SHALL BE 900m UNLESS NOTED OTHERWISE.

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

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 70NC AND ALUMINUM WITH A MINIMUM 15% ALUMINUM WITH OR WITHOUT OTHER MATERIALS HAVING A MASS OF 4009/m² COMPETE WITH A FINISHING LAYER OF BLUE FUSION BONDED EPOXY IN ACCORDANCE WITH IS EN 14901.



PROPOSED.

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80	
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 90 100m	

APPD	DRN APPD	AMENDMENT	DATE	REV.

FOR PLANNING NOT FOR CONSTRUCTION

Tel: (01) 664 8900 Fax: (01) 661 3618 Email: info@waterman-moylan.ie www.waterman-moylan.ie	BLOCK S, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 K7W7 IRELAND.	Engineering Consultants	Waterman Moylan

	TITLE	PROJECT	ARCHITECT	CLIENT
WATERMAIN CONSTRUCTION DETAILS SHEET 1 OF 2		QUICKPARK CAR PARK AT TURNAPIN GREAT, SWORDS ROAD.	ARCHITECT WILSON ARCHITECTURE	GERARD GANNON