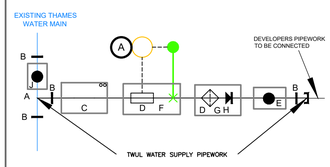
DMA INSET METER INSTALLATION

METER SPECIFICATION :AQUAMASTER '4'
(COMPLETE WITH 'TX','TD' & FLUID CONTACT RINGS, AND ALSO WITH 'CALMASTER 2 FINGERPRINTING')

IN ACCORDANCE WITH THAMES WATER / ABB FRAMEWORK AGREEMENT FA732

DIRECTION OF FLOW



'DOWNSTREAM' VALVE INSTALLED MINIMUM '5 x THE PIPE DIAMETER' BEFORE THE METER.
'UPSTREAM' VALVE INSTALLED MINIMUM '5 x THE PIPE DIAMETER' AFTER THE METER
METER/NRV CHAMBER 1200x900mm NO MORE THAT CP1 ENTRY REQ, WO/FH 380x230mm
PLEASE REFER TO DRAWING SHEETS 1,2&3 (REV 5 - 20/06/2020)

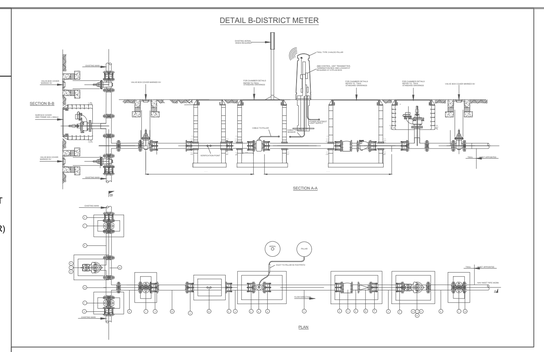
A	TWUL WATER SUPPLY PIPE
B	INLINE VALVE
C	VERIFICATION CHAMBER 900x600mm N0 MORE THAT CP1 ENTRY REQ.
D	CHAMBER 1200x900mm NO MORE THAT CP1 ENTRY REQ.
E	HYDRANT FOR FLUSHING MAIN
F	ABB AQUAMASTER 4 METER AND SENSOR
G	INLINE STRAINER
H	NON RETURN VALVE
J	FIRE HYDRANT

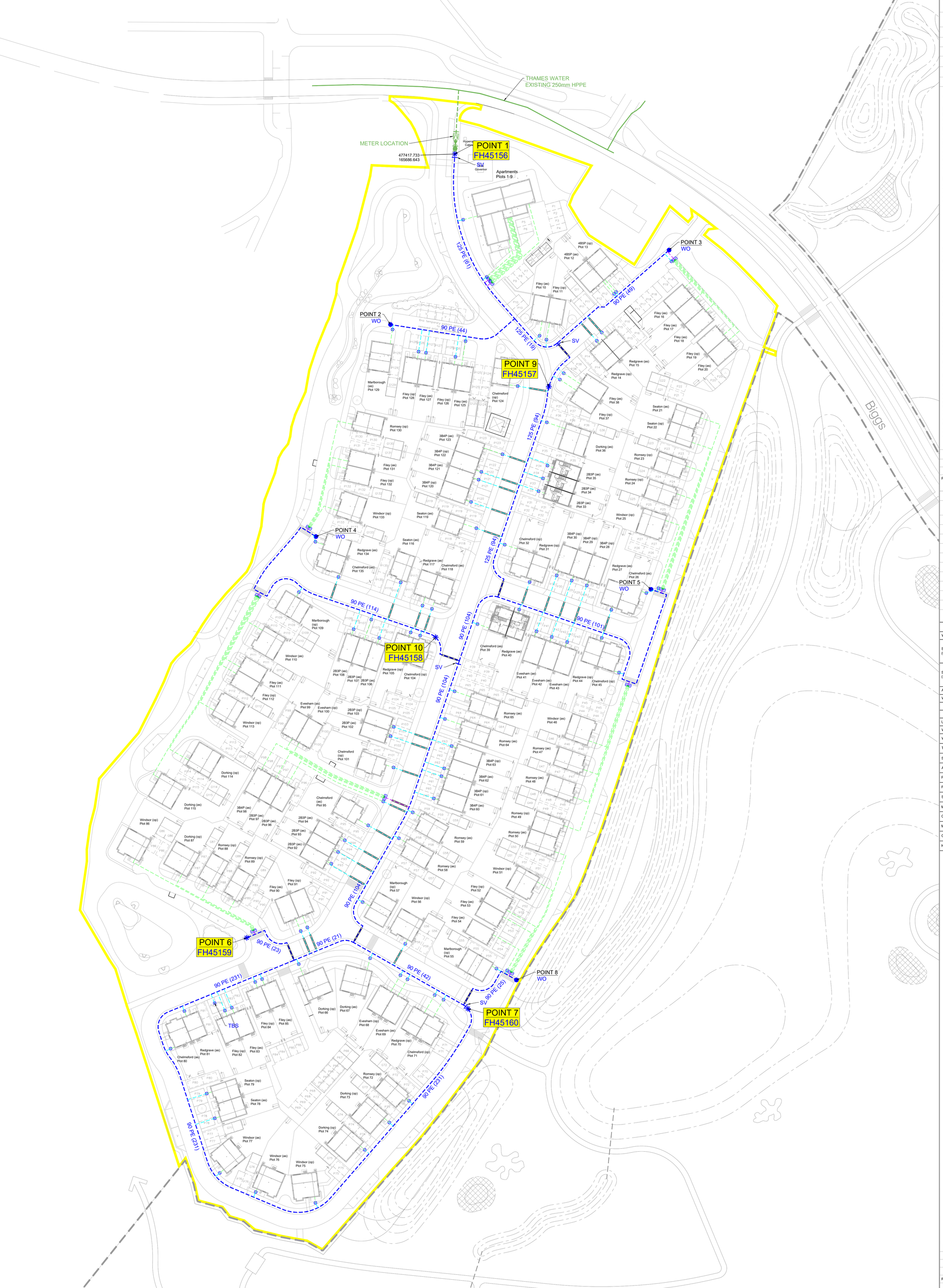
LEGEND

- AQUAMASTER 4 DMA METER
- CHAMBER
- VERIFICATION POINT
- BOUNDARY BOX (PRESSURE LOGGER)
- DMA PILLAR
- AERIAL
- 50mm DUCT FOR CABLE
- STRAINER
- NON RETURN VALVE
- WASHOUT / HYDRANT
- VALVE
- BLANKING PLATE

NOT TO SCALE

DETAIL B-DISTRICT METER





NORTH

Note

ALL END WASH OUTS TO BE POSITIONED NO MORE THAN 1m PAST THE LAST SERVICE, IF THE LAST SERVICE CONNECTION POSITION CHANGES FURTHER THAN THIS THE DEVELOPER MUST CONTACT INFRASTRUCTURE GATEWAY FOR ADVICE

PLEASE NOTE - BIN STORE CONNECTIONS MUST HAVE DOUBLE CHECK VALVES INSTALLED BY THE DEVELOPER AND TAPS MUST BE IN LOCKABLE BOXES OR LOCKED AREAS INACCESSIBLE TO NON-HOMEOWNERS. IF THE TAPS ARE IN AREAS OPEN TO THE PUBLIC THERE MUST BE AN AIR BREAK VIA A TANK AS IT CONSTITUTES A CATEGORY 5 HIGH RISK FLUID

SOIL ANALYSIS CONFIRMS THAT BARRIER PIPE IS NOT REQUIRED

PIPE SPECIFICATION

ONSITE PIPE SIZE (mm)	LENGTH (m)
90	783
125	174
OFFISTE PIPE SIZE (mm)	LENGTH (m)
125	21
TOTAL LENGTH	978

General Notes

Material Specification
PE & Barrier Pipe
Up to and including 63mm PE80 (MDPE), SDR11 (Light Blue)
90mm up to 315mm PE100 (HPPE) SDR17.6 (Dark Blue)
Ductile Iron
Confirm with designer before ordering
All mains and services must be laid using an approved PE or PE Barrier pipe. When using PE Barrier pipe all joints & fittings must be wrapped In accordance with manufacturers instruction to prevent ingress of contamination into the water pipes. Underground meter boxes must be installed using female iron couplings. All mains & services (other than 32mm/25mm services) must be installed by 'ESP' approved personnel only, and mains installed by non-approved personnel will not comply with water / HSE regulations and will need to be replaced.
All external pipes and internal plumbing must comply with the Water Supply (Water Fittings) Regulations 1999 Schedule 2 and the Water Supply (Water Quality) Regulations 2001)

Ducting Specification
All ducting should be supplied and installed in accordance with BS4692 is a suitable standard for plastic ducting.
- Ducting can only be used for perpendicular carriageway crossings.
- Only one pipe is allowed per duct.
- For service pipe the duct must be blue and perforated along it's entire length

Duct Sizes

Water Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	100mm
63mm	150mm
90mm, 110mm & 125mm	200mm
160mm & 180mm	300mm
225mm & 315mm	450mm

All pipes, fittings and valves must meet technical specifications:

BS6437 - 1984; BS6572 - 1985, BS6730 -1986; BS5306: Part 2 -1990;
WIS 4-24-01 - 1998; WIS 4-32-08 - Issue 3: April 2002;
WIS 4-32-14 - 1995; WIS 4-32-15 - 1995; WIS 4-32-17 - Issue 2 -2001; DIN8074 - 1999; DIN8075 - 1999; DIN16963 Part 1 - 1980; ISO4427-1996; BS EN 12201; BS EN 13244; UNI 10910:2001

Contaminated Ground Conditions
Should the land on which the development is taking place to be contaminated, all underground pipes and fittings installed in conjunction with water mains and service connection will need to be of suitable material to meet the manufacturers specifications which are not adversely affected by the geotechnical conditions.
The developer will ensure that the service pipe material and fittings used on site are fit for purpose and suitable for use within contaminated land
In the event that contaminated land is discovered during construction then work should be stopped until the nature of the contamination is identified and alternative protective coated materials provided to allow continuation of main laying

Plan Notes
This plan shows those pipes owned by ESP. Any third part apparatus indicated on these drawings is shown for indicative purposes only. The developer should contact the third party direct for confirmation of their location or to agree any possible diversionary or abandonment works. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, it's agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used, It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus.

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Developers Responsibility
When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore backfilling should be carried out as soon as possible. Any damage or theft of any item once delivered to site is the responsibility of the developer. Replacement and repair, including administrative costs will be fully recharged to the developer, irrespective of who the responsible party was. It will be the developer's responsibility to recover the costs from the third parties.
Proposed Services
Developer to pre-install all services up to & including 32mm at a depth of 750mm deep and not greater than 1350mm from finished surface level.
Where laying in contaminated land using barrier pipe or ductile iron, corresponding service pipe must also be of a barrier type
Proposed Mains
All mains to be laid in pre-excavated trench to 900mm cover, provided by the developer. Road crossings to be continuous plastic duct or drainage pipe sized to accommodate the mains shown on this drawing, at 900mm cover to the finished level.

SERVICE CONNECTION INFORMATION	
NUMBER OF DOMESTIC PLOT CONNECTIONS	135
NUMBER OF NON-DOMESTIC CONNECTIONS	1

PLEASE NOTE : ALL SERVICES TO BE 25mm MDPE / BARRIER PIPE FITTED WITH 1.5 INCH CONCENTRIC METER IN A TRADITIONAL MANIFOLD / BOUNDARY BOX (UNLESS OTHERWISE SPECIFIED ON THE DRAWING)

HYDRANT SCHEDULE

POINT NUMBER	ADOPT Y/N	COMMENTS
1	Y	FH 45156
2	N	
3	N	
4	N	
5	N	
6	Y	FH 45159
7	Y	FH 45160
8	N	
9	Y	FH 45157
10	Y	FH 45158

Drawing Key		Colour	Proposed	As-Laid
Water Pipe		Dark Blue		
Services (Communication Pipe)	25mm	Light Blue		
	32mm	Blue		
	63mm	Purple		
Services (Supply Pipe)	25mm	Light Green		
	32mm	Orange		
	63mm	Red		
Asset Boundary		Yellow		
Water Mains (Incumbent)		Dark Green		

PE : Polyethylene BP : Barrier Pipe DI : Ductile Iron

UPVC Ducts	Black	
Water Connection Points	Green	
Wash Out Hydrant (Fixed Jumper)		WO
Temporary Wash Out (Fixed Jumper)		TW
Sluice Valve		SV
Air Valve		AV
Pressure Reducing Valve		PRV
Fire Hydrant (Fixed Jumper)		FH
Stop Tap		
Meter		M
Change of Pipe Size/Material		
Multi Port Box (With Number of Meters)		
Gun Metal Manifold & Chamber (With Number of Meters)		
Non-Return Valve		

APPROVED CONSTRUCTION DRAWING

ALL VALVES TO BE CLOCKWISE CLOSE

Rev	Date	Description	ID	CHK	APP
A	30/01/25	Revised site layout and added TBS	JC	AD	BB

Drawing Revision Details

UIP/Contractor:
Infrastructure Gateway Limited, Vantage House, 2700 Kettering Parkway, Kettering, Northants, NN15 6XR
tel. 01536 216777 e-mail. post@igl.co.uk
fax. 08701 388075 website. www.igl.co.uk

Asset Owner: ESP WATER

Location: Parcel O2, Biggs Lane, Barkham, Arborfield Green

OS Ref: 123456,123456

Developer: Crest Nicholson Chiltern

Drawing Title: Potable Water Design

Project Number:	ESP Reference:
NW23-5256	ESPW036133
Type: C	Revision A

DRAWING TYPES: M- Miscellaneous; P- Proposal; A- As Laid (Not Adopted); L- Wayleave/Easement; D- Design; C- Construction Issue

Drawing Number: W23-5256-002

Scale:	Sheet Size:	Drawn:	Chk'd:	Apv'd:	Date:
1:500	A1	JC	AD	BB	09/08/24