Appendix F As-built Requirements for Wastewater Pressure Sewer System

F05: WW Isolation Valve (Point)

F06: WW Reducing Coupler (Point)

F04: WW Flushing Point Access (Point)

F01: WW Local Pressure Tank (Point)

D19: WW Lateral 'Gravity' (Line)

F05: WW Isolation Valve (Point)

D25: WW End Cap (Point)

D30: WW Valve (Point)

F02: WW Pressure Main (Line)

D23: WW Lateral Junction (Point)

D19: WW Lateral 'Gravity' (Line)

F08: WW Pressure Lateral (Line)

F03: WW Boundary Kit (Point)

F01: WW Local Pressure Tank (Point)

House

Note Connection to existing lateral

F07: WW Control Panel (Point)

F10: WW Electrical (Line)

Wastewater Pressure – Overview

As-Built requirements (WW)			
Name		**WW Local Pressure Tank System (Point)**	●
Point Type		**F01** "Point Asset Inputs"	

CAT Column	SAG Description	Valid Values
A	Type of Point Feature	F01
B	Type of Pressure Tank	Select from pick list: domWwLocalPressureTankSystemType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	RL on centre of cover - (m)	data - Decimal Number (6 Chars, 3 Decimals)
I	Leave Blank	Leave Blank
J	Leave Blank	Leave Blank
K	Date of commission	data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
N	Date of 'survey start'	data - Date (dd/mm/yyyy)
O	Trafficable or non trafficable structure	Select from pick list: domTrafficable
P	Leave Blank	Leave Blank
Q	Manufacturer of asset	Select from pick list: domManufacturer
R	Serial number of Pump	data - Text (50 Characters)
S	Serial number of Tank	data - Text (50 Characters)
T	Number of pumps operating in tank	data - Number
U	Leave Blank	Leave Blank
V	Manufacturer warranty reference	data - Text (50 Characters)
W	Manufacturer warranty term in years	data - Number

F01: WW Local Pressure Tank System

Centre of structure
X Y Z

PLAN AT FOOTING LEVEL
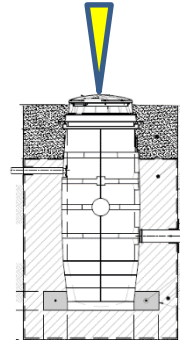
PLAN

SECTION

SECTION

non-trafficable   trafficable
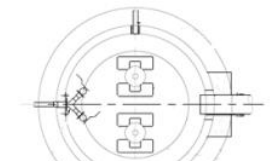
Additional Information		
*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT		
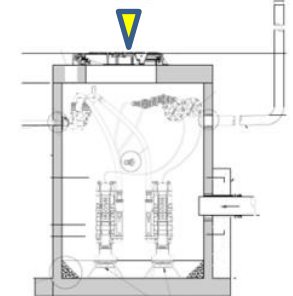
As-Built requirements (WW)

WW Pressure Main (Line)

Name

Line Type — **F02** "Line Asset Inputs"

F02: WW Pressure Main

CAT Column	SAG Description	Valid Values
A	Type of Line Feature	F02
B	Type of Pipe	Select from pick list: domWwPipeType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Line Vertex Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Line Vertex Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	Invert level at vertex - (m)	data - Decimal Number (6 Chars, 3 Decimals)
I	Number of Vertex (point along line)	data - Number
J	Material of pipe	Select from pick list: domPipeConstruction
K	Nominal diameter in mm - (mm)	Select from pick list: domPipeNominalDiameter
L	At Node - Asset Unique Identifier	data - Text (50 Characters)
M	To Node - Asset Unique Identifier	data - Text (50 Characters)
N	Manufacturer of asset	Select from pick list: domWwPipeManufacturer
O	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
P	Pressure class (PN)	Select from pick list: domWwPipePressureClass
Q	Stiffness rating (SN)	Select from pick list: domPipeStiffnessClass
R	Concrete Load Class	Select from pick list: domPipeLoadClass
S	Date of commission	data - Date (dd/mm/yyyy)
T	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
U	Date of 'survey start'	data - Date (dd/mm/yyyy)
V	Shape of pipe	Select from pick list: domPipeShape
W	Average burial depth to invert of pipe - (m)	data - Decimal Number (6 Chars, 3 Decimals)
X	Method by which the pipe was installed	Select from pick list: domPipeInstallationMethod

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

This feature requires at least two row entries.

Col I: enter number of vertex along line starting with the downstream end
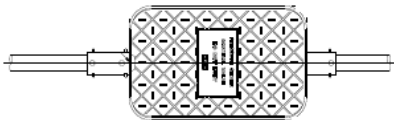
See Appendix C.2.3 for a CAT example
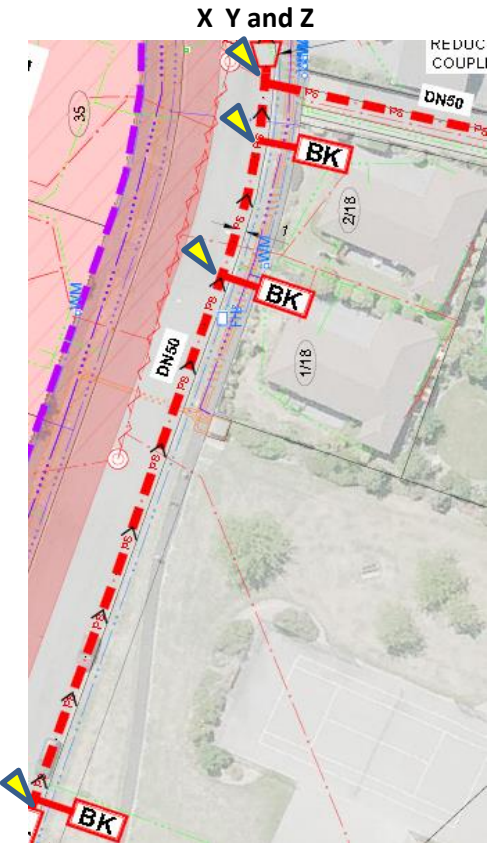
X Y and Z

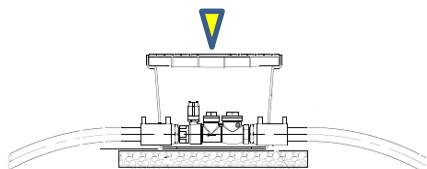All bends, start/end points to be surveyed. Create one CAT row per surveyed point.

As-Built requirements (WW)			

Name — WW Pressure Sewer System Boundary Kit (Point) 🔴

Point Type — **F03** "Point Asset Inputs"

CAT Column	SAG Description	Valid Values
A	Type of Point Feature	F03
B	Type of Boundary Kit	Select from pick list: domWwLocalPressureBoundaryKitType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	RL on centre of cover - (m)	data - Decimal Number (6 Chars, 3 Decimals)
I	Leave Blank	Leave Blank
J	Leave Blank	Leave Blank
K	Date of commission	data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
N	Date of 'survey start'	data - Date (dd/mm/yyyy)
O	Trafficable or non trafficable structure	Select from pick list: domTrafficable
P	Leave Blank	Leave Blank
Q	Manufacturer of asset	Select from pick list: domManufacturer
R	Leave Blank	Leave Blank
S	Leave Blank	Leave Blank
T	Leave Blank	Leave Blank
U	Leave Blank	Leave Blank
V	Manufacturer warranty reference	data - Text (50 Characters)
W	Manufacturer warranty term in years	data - Number

F03: WW Local Pressure Boundary Kit

Centre of structure X Y and Z

PLAN

SECTION

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

As-Built requirements (WW)		

Name WW Flushing Point (Point) ●

Point Type **F04** "Point Asset Inputs"

**Centre of structure
X Y and Z**

F04: WW Flushing Point Access

CAT Column	SAG Description	Valid Values
A	Type of Point Feature	F04
B	Type of Manhole or Access	Select from pick list: domWwAccessType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	RL on lowest corner of lid - (m)	data - Decimal Number (6 Chars, 3 Decimals)
I	RL at base of pit (lowest point) - (m)	data - Decimal Number (6 Chars, 3 Decimals)
J	Width and length of pit (e.g. 600x800) or diameter of pit - (mm)	data - Number
K	Date of commission	data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
N	Date of 'survey start'	data - Date (dd/mm/yyyy)
O	Style of access lid	Select from pick list: domAccessLidStyle
P	Shape of access lid	Select from pick list: domAccessLidShape
Q	Manufacturer of asset	Select from pick list: domManufacturer
R	Construction material	Select from pick list: domAccessConstruction
S	Type of security on access	Select from pick list: domAccessSecurity
T	Pit angle - orientation of inner structure to nearest 5 degrees (rectangular pits only) - (degrees)	data - Number

PLAN

HYDRANT BOX

SECTION

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col T: leave blank/unchanged for circular chambers
See Appendix C.1.1 for a CAT example.

As-Built requirements (WW)			

Name — WW Isolation Valve (Point)

Point Type — F05 "Point Asset Inputs"

F05: WW Isolation Valve

CAT Column	SAG Description	Valid Values
A	Type of Point Feature	F05
B	Type of Valve	Select from pick list: domWwValveType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	RL on lowest corner of lid - (m)	data - Decimal Number (6 Chars, 3 Decimals)
I	Leave Blank	Leave Blank
J	Nominal diameter in mm - (mm)	Select from pick list: domValveNominalDiameter
K	Date of commission	data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
N	Date of 'survey start'	data - Date (dd/mm/yyyy)
O	Valve normal operating position - open or closed	Select from pick list: domValveNormalPosition
P	Manual or motorised valve	Select from pick list: domValveActuation
Q	Manufacturer of asset	Select from pick list: domManufacturer
R	Valve closure rotation direction	Select from pick list: domValveClosureRotation
S	Situation of Valve	Select from pick list: domValveSituation
T	Main function of valve	Select from pick list: domWwValveFunction
U	Valve control point	Select from pick list: domValveControlPoint
V	Manufacturer warranty reference	data - Text (50 Characters)
W	Manufacturer warranty term in years	data - Number

Centre of structure X Y and Z

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT
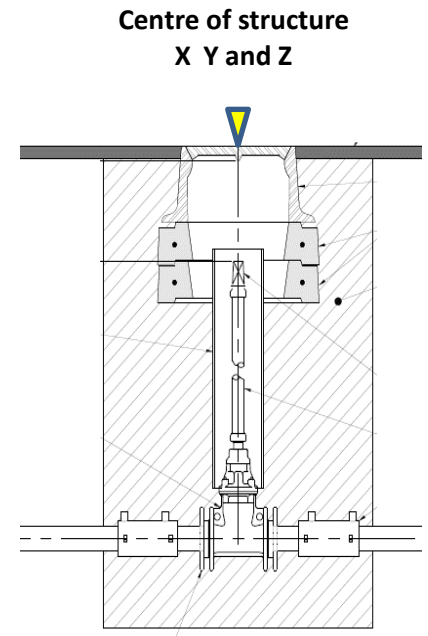
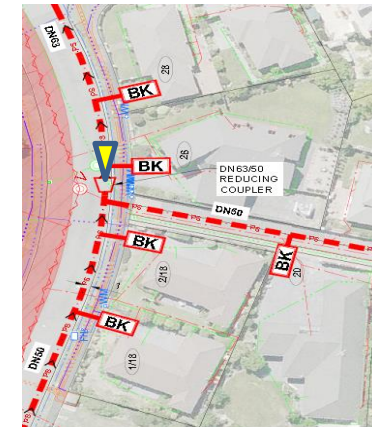| As-Built requirements (WW)			

F06: WW Reducing Coupler

Name		**WW Reducing Coupler (Point)**	●
Point Type		**F06** "Point Asset Inputs"	

CAT Column	SAG Description		Valid Values
A	Type of Point Feature		F06
B	Type of Fitting		Select from pick list: domWwFittingType
C	Asset Record Capture Type		Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier		data - Text (100 Characters)
F	Centre of structure in Easting coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of structure in Northing coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)
H	Leave Blank		Leave Blank
I	Leave Blank		Leave Blank
J	Leave Blank		Leave Blank
K	Date of commission		data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data		Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset		Select from pick list: domInstallationCompany
N	Date of 'survey start'		data - Date (dd/mm/yyyy)

Centre of structure
X Y

Additional Information
*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

As-Built requirements (WW)		

Name — WW Pressure Sewer System Control Panel (Point) ⬤

Point Type — **F07** "Point Asset Inputs"

CAT Column	SAG Description	Valid Values
A	Type of Point Feature	F07
B	Type of Panel	Select from pick list: domWwLocalPressureControlPanelType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	Leave Blank	Leave Blank
I	Leave Blank	Leave Blank
J	Leave Blank	Leave Blank
K	Date of commission	data - Date (dd/mm/yyyy)
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
M	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
N	Date of 'survey start'	data - Date (dd/mm/yyyy)
O	Leave Blank	Leave Blank
P	Leave Blank	Leave Blank
Q	Manufacturer of asset	Select from pick list: domWwLocalPressureControlPanelManufacturer
R	Telemetry type	Select from pick list: domTelemetryType
S	Leave Blank	Leave Blank
T	Leave Blank	Leave Blank
U	Leave Blank	Leave Blank
V	Manufacturer warranty reference	data - Text (50 Characters)
W	Manufacturer warranty term in years	data - Number

Sidebar: F07: WW Local Pressure Control Panel

Additional Information

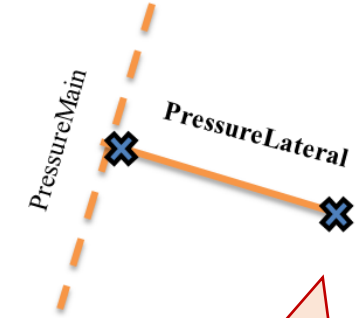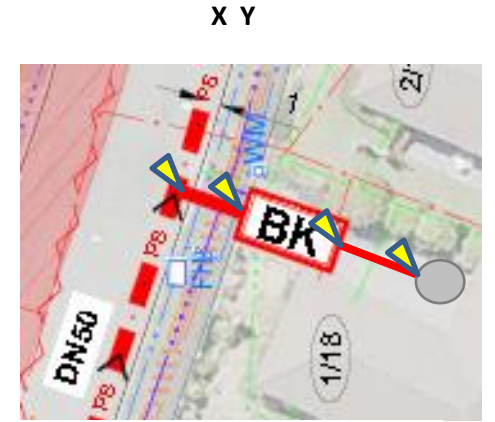*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Centre of structure
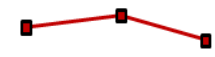**X Y**

Control Panel

Power supply

As-Built requirements (WW)			
Name		**WW Pressure Sewer System Lateral (Line)**	**X Y**
Line Type		**F08** "Line Asset Inputs"	

CAT Column	SAG Description	Valid Values
A	Type of Line Feature	F08
B	Type of Lateral	Select from pick list: domWwLateralType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Line Vertex Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Line Vertex Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	Leave Blank	Leave Blank
I	Number of Vertex (point along line)	data - Number
J	Material of pipe	Select from pick list: domPipeConstruction
K	Nominal diameter in mm - (mm)	Select from pick list: domPipeNominalDiameter
L	Leave Blank	Leave Blank
M	Leave Blank	Leave Blank
N	Manufacturer of asset	Select from pick list: domManufacturer
O	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
P	Pressure class (PN)	Select from pick list: domPipePressureClass
Q	Stiffness rating (SN)	Select from pick list: domPipeStiffnessClass
R	Concrete Load Class	Select from pick list: domPipeLoadClass
S	Date of commission	data - Date (dd/mm/yyyy)
T	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
U	Date of 'survey start'	data - Date (dd/mm/yyyy)
V	Shape of pipe	Select from pick list: domPipeShape
W	Average burial depth to invert of pipe - (m)	data - Decimal Number (6 Chars, 3 Decimals)
X	Method by which the pipe was installed	Select from pick list: domPipeInstallationMethod
Y	Leave Blank	Leave Blank
Z	Do several units share this lateral? (yes/no)	Select from pick list: domLateralSharedConnection
AA	Type of lateral junction	Select from pick list: domWwEyeType
AB	Distance of IP from lateral start (from connection to existing private lateral) - (mm)	data - Decimal Number (9 Chars, 3 Decimals)

F08: WW Pressure Lateral

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

This feature requires at least two row entries.

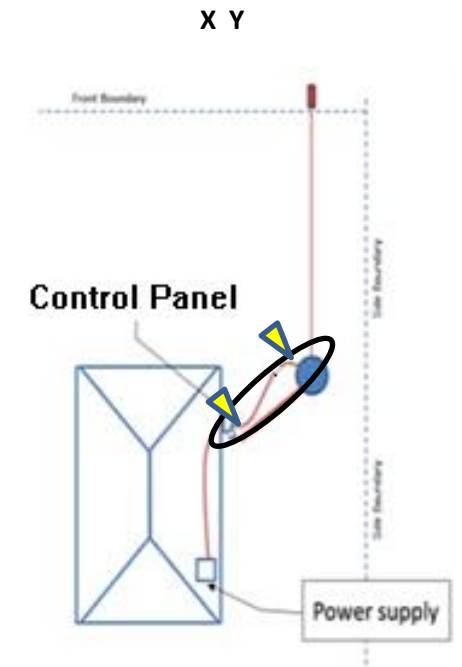Col I: enter number of vertex along line starting with the downstream end

PressureMain

PressureLateral

All bends, start/end points to be surveyed.
Create one CAT row per surveyed point.

As-Built requirements (WW, SW, WS)			
Name		**WW Electrical (Line)**	
Line Type		**F10** "Line Asset Inputs"	**X Y**

CAT Column	SAG Description	Valid Values
A	Type of Line Feature	F10
B	Type of Cable	Select from pick list: domCableType
C	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign
E	Asset Unique Identifier	data - Text (100 Characters)
F	Line Vertex Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
G	Line Vertex Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)
H	Leave Blank	Leave Blank
I	Number of Vertex (point along line)	data - Number
J	Conduit Material	Select from pick list: domCableConduitConstruction
K	Conduit Diameter - (mm)	data - Number
L	Leave Blank	Leave Blank
M	Leave Blank	Leave Blank
N	Leave Blank	Leave Blank
O	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany
P	Leave Blank	Leave Blank
Q	Leave Blank	Leave Blank
R	Leave Blank	Leave Blank
S	Date of commission	data - Date (dd/mm/yyyy)
T	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
U	Date of 'survey start'	data - Date (dd/mm/yyyy)
V	Leave Blank	Leave Blank
W	Leave Blank	Leave Blank
X	Method by which the cable was installed	Select from pick list: domCableInstallationMethod

F10: WW Electrical

Control Panel

Power supply

All bends, start/end points to be surveyed.
Create one CAT row per surveyed point.

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

This feature requires at least two row entries.

Col I: enter number of vertex along line starting with the downstream end

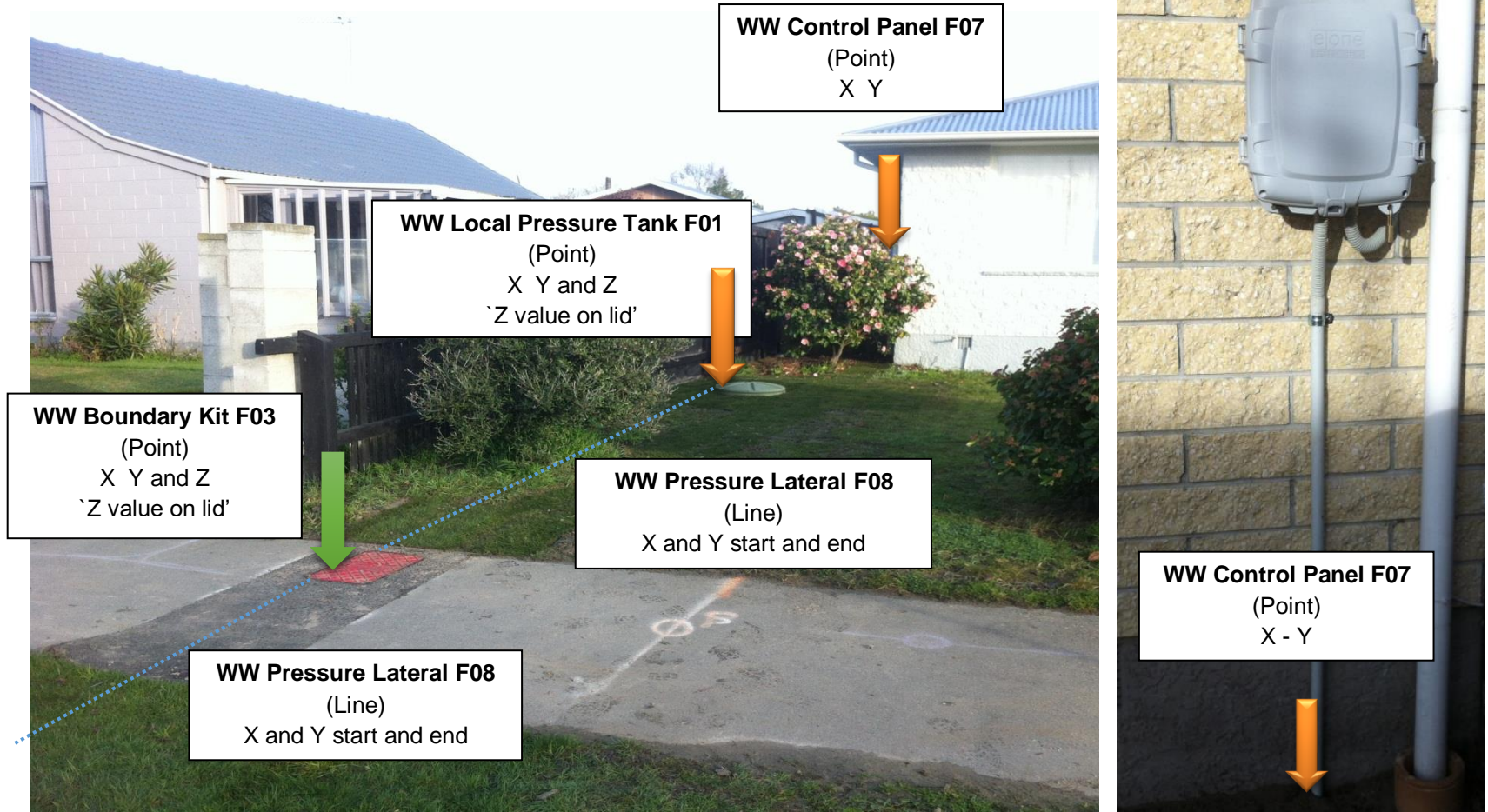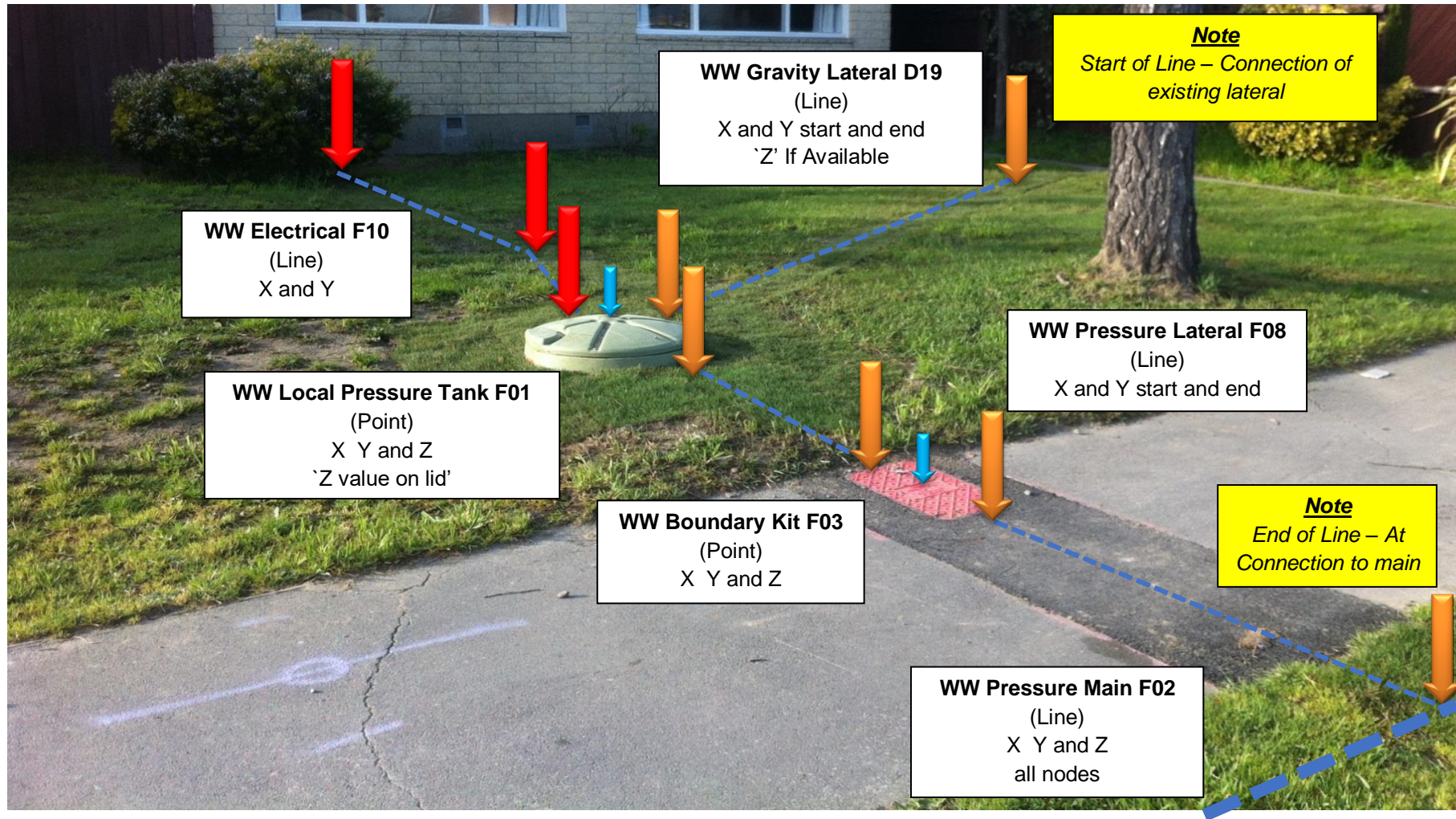**Figure 34: Pressure System Layout for a Typical Household**

Figure 35: WW Pressure System Layout Overview