

Appendix E As-built Requirements for Stormwater Systems

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Stormwater – Overview

3



)	SW Single Sump (Point) 🔴		
Point	Туре	E01 "Point Asset Inputs"	-	Centre of Structure	Sump
				ХҮ	Z
CAT Colu			Valid Values		
А	Type of Point Feature		E01	Proze DB	
В	Type of Sump		Select from pick list: domSwInletType		
С	Asset Record Capture Ty	pe	Select from pick list: domAssetRecordCaptureType	Centre of Structure	
D	Differs from design (yes/r	•	Select from pick list: domDiffersFromDesign	Structure	
Е	Asset Unique Identifier		data - Text (100 Characters)		
F	Centre of Structure in Eas	sting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)		
G	H RL on lowest corner of lid - (m) c		data - Decimal Number (12 Chars, 2 Decimals)		
Н			data - Decimal Number (6 Chars, 3 Decimals)		
I	RL at base of pit (lowest		data - Decimal Number (6 Chars, 3 Decimals)	SINGLE SUMP	
J	Width and length of pit (e	.g. 600x800) or diameter of pit - (mm)	data - Number		
К	Date of commission		data - Date (dd/mm/yyyy)	Lowest Corr	or lid 7
L	Location certainty - accur		Select from pick list: domLocationCertainty	Lowest Corr	
М	Name of main contractor	who installed the asset	Select from pick list: domInstallationCompany	_	
Ν	Date of 'survey start'		data - Date (dd/mm/yyyy)	TTTTT	TTTT
0	Style of sump lid		Select from pick list: domAccessLidStyle	the total date to	also a harden
Р	Leave Blank		Leave Blank		a server to be
Q	Manufacturer of asset		Select from pick list: domManufacturer		CREATER AND ADDRESS
R	Construction material of s		Select from pick list: domAccessConstruction		and S. Clinese
•	Type of security on sump		Select from pick list: domAccessSecurity		17.0
S		of inner structure to nearest 5 degrees	data - Number		The Second Second



	Name		SW Double Sump (Point	t) 🔴			
	Point Type		E02 "Point Asset Inputs"	•	Centre of structure Sump F		
					XY Z		
	CAT Column	SAG Description		Valid Values			
	A	Type of Point Feature		E02			
	В	Type of Sump		Select from pick list: domSwInletType			
<u>amn</u>	С	Asset Record Capture Typ	e	Select from pick list: domAssetRecordCaptureType			
	D	Differs from design (yes/no		Select from pick list: domDiffersFromDesign			
	E	Asset Unique Identifier		data - Text (100 Characters)			
S	F	Centre of Structure in East	ing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)			
9	G	Centre of Structure in Northing coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)			
Double	Н	RL on lowest corner of lid -	· (m)	data - Decimal Number (6 Chars, 3 Decimals)			
	1	RL at base of pit (lowest po		data - Decimal Number (6 Chars, 3 Decimals)			
0	J	Width and length of pit (e.g	. 600x800) or diameter of pit - (mm)	data - Number	DOUBLE SUMP		
	К	Date of commission		data - Date (dd/mm/yyyy)			
2	L	Location certainty - accura		Select from pick list: domLocationCertainty			
2 M	М	Name of main contractor w	/ho installed the asset	Select from pick list: domInstallationCompany	Lowest Corner Lid Z		
<i>,,</i>	N	Date of 'survey start'		data - Date (dd/mm/yyyy)			
N	0	Style of sump lid		Select from pick list: domAccessLidStyle			
EUZ	Р	Leave Blank		Leave Blank			
Ц	Q	Manufacturer of asset		Select from pick list: domManufacturer	The second se		
	R	Construction material of su		Select from pick list: domAccessConstruction			
	S	Type of security on sump a		Select from pick list: domAccessSecurity			
	Т	Pit angle - orientation of (rectangular pits only) - (de	inner structure to nearest 5 degrees egrees)	data - Number			
		al Information					
	*All othe	r columns must be l	eft "blank" or hold the value	"LEAVE BLANK" as default in CAT			
		endix C.1.2 for a CA					



Name	SW Corner Sump (Po	oint) 🔴	
Point Typ	e E03 "Point Asset Inputs"	•	Centre of structure
			ХҮ
CAT Column	SAG Description	Valid Values	
Α	Type of Point Feature	E03	
В	Type of Sump	Select from pick list: domSwInletType	
С	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	
C D E F	Asset Unique Identifier	data - Text (100 Characters)	
F	Centre of Structure in Easting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	Sump RL 🛛 🔽
(G	Centre of Structure in Northing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
н	RL on lowest corner of lid - (m)	data - Decimal Number (6 Chars, 3 Decimals)	Z
H I J	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	
К	Date of commission	data - Date (dd/mm/yyyy)	
	Location certainty - accuracy of data	Select from pick list: domLocationCertainty	Lowest Corner Lid Z
M N	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany	
	Date of 'survey start'	data - Date (dd/mm/yyyy)	
0	Style of sump lid	Select from pick list: domAccessLidStyle	
Р	Leave Blank	Leave Blank	
P Q	Manufacturer of asset	Select from pick list: domManufacturer	
R	Construction material of sump	Select from pick list: domAccessConstruction	
S	Type of security on sump access	Select from pick list: domAccessSecurity	
Т	Pit angle - orientation of inner structure to nearest 5 degree (rectangular pits only) - (degrees)	data - Number	
	al Information		
*All oth	er columns must be left "blank" or hold the valu	e "LEAVE BLANK" as default in CAT	
	endix C.1.2 for a CAT example.		





Name		SW Triple Sump (Point	t) 👝	Centre of structure
Point Typ	De	E04 "Point Asset Inputs"	•	X Y
CAT Column	SAG Description		Valid Values	
Α	Type of Point Feature		E04	
В	Type of Sump		Select from pick list: domSwInletType	
С	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	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Northing coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)	
Н	RL on lowest corner of lid - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
H 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	
К	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	
М	Name of main contractor who	o installed the asset	Select from pick list: domInstallationCompany	Lowest Corner Lid Z
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Style of sump lid		Select from pick list: domAccessLidStyle	
Р	Leave Blank		Leave Blank	
Q	Manufacturer of asset		Select from pick list: domManufacturer	
R	Construction material of sum	p	Select from pick list: domAccessConstruction	
S	Type of security on sump acc		Select from pick list: domAccessSecurity	
Т	Pit angle - orientation of i (rectangular pits only) - (degr	nner structure to nearest 5 degrees ees)	data - Number	
	nal Information			
*All oth	er columns must be le	eft "blank" or hold the value	"LEAVE BLANK" as default in CAT	
See An	pendix C.1.2 for a CAT	- avamplo		



et Inputs" Centre of structure X Y Lowest Corner E05 Select from pick list: domSwlnletType Lid Z Select from pick list: domAssetRecordCaptureType Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Date (dd/mm/yyyy) Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Leave Blank Select from pick list: domAccessConstruction
KY Lid Z E05 Select from pick list: domSwInletType Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign data - Text (100 Characters) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) PLAN data - Date (dd/mm/yyyy) Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
E05 Select from pick list: domSwInletType Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign data - Text (100 Characters) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Date (dd/mm/yyyy) Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Select from pick list: domSwlnletType Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign data - Text (100 Characters) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Select from pick list: domSwInletType Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign data - Text (100 Characters) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Select from pick list: domDiffersFromDesign data - Text (100 Characters) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
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data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (6 Chars, 3 Decimals) data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Number data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
data - Decimal Number (6 Chars, 3 Decimals) of pit - (mm) data - Number data - Date (dd/mm/yyyy) Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
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Select from pick list: domLocationCertainty Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Select from pick list: domInstallationCompany data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
data - Date (dd/mm/yyyy) Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Select from pick list: domAccessLidStyle Leave Blank Select from pick list: domManufacturer
Leave Blank Select from pick list: domManufacturer
Select from pick list: domManufacturer
Select from pick list: domAccessConstruction
earest 5 degrees Sump RL
Select from pick list: domAccessSecurity



Name		SW Inspection Chamb	er (Point)	
Point Typ	t Type E06 "Point Asset Inputs"			Centre of structure
				Х Ү
CAT	SAG Description		Valid Values	─
Column A	Type of Point Feature		E06	
B	Type of Manhole or Access		Inspection Chamber	
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)	
	Centre of Structure in Eastin	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Northin	o	data - Decimal Number (12 Chars, 2 Decimals)	Flow
H	RL on lowest corner of lid		data - Decimal Number (6 Chars, 3 Decimals)	
1	RL at base of pit (lowest poir	nt) - (m)	data - Decimal Number (6 Chars, 3 Decimals)	
J	Width and length of pit (e.g. 600x800) or diameter of pit - (mm) Date of commission Location certainty - accuracy of data		data - Number	
К			data - Date (dd/mm/yyyy)	
L			Select from pick list: domLocationCertainty	1
М	Name of main contractor wh	o installed the asset	Select from pick list: domInstallationCompany	
Ν	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Style of access lid		Select from pick list: domAccessLidStyle	
Р	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	
т	Pit angle - orientation of i (rectangular pits only) - (deg	nner structure to nearest 5 degrees rees)	data - Number	
U	Treatment material for refurb	bished manholes	Select from pick list: domAccessTreatmentType	
*All oth Col T: le Col U: l		d for circular chambers d if N/A	e "LEAVE BLANK" as default in CAT	Lowest Corner Lid Z



Name		SW Small Trafficable S	Sump (Point)		
Point Ty	be	E07 "Point Asset Inputs"	•		
				Lowest Corner	Centre of structu
				Lid Z	ХҮ
CAT Column A	SAG Description		Valid Values		
А	Type of Point Feature		E07	-	
Б	Type of Sump		Select from pick list: domSwInletType	7	
	Asset Record Capture Type	9	Select from pick list: domAssetRecordCaptureType		
D	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign		
	Asset Unique Identifier		data - Text (100 Characters)		
	Centre of Structure in Easting coordinate - (m) Centre of Structure in Northing coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)		140-1-
G			data - Decimal Number (12 Chars, 2 Decimals)		
н	RL on lowest corner of lid -	(m)	data - Decimal Number (6 Chars, 3 Decimals)	cimals)	
H J	RL at base of pit (lowest po	int) - (m)	data - Decimal Number (6 Chars, 3 Decimals)		
J	Width and length of pit (e.g. 600x800) or diameter of pit - (mm)		data - Number		
ĸ	Date of commission		data - Date (dd/mm/yyyy)		
	Location certainty - accurate	cy of data	Select from pick list: domLocationCertainty	PLAN	CROSS SECTION
М	Name of main contractor w		Select from pick list: domInstallationCompany		
N	Date of 'survey start'		data - Date (dd/mm/yyyy)		
0	Style of sump lid		Select from pick list: domAccessLidStyle		Sump RL
P	Leave Blank		Leave Blank		7
Q	Manufacturer of asset		Select from pick list: domManufacturer		2
R	Construction material of su	mp	Select from pick list: domAccessConstruction		
S	Type of security on sump a	ccess	Select from pick list: domAccessSecurity		
	Pit angle - orientation of (rectangular pits only) - (de	inner structure to nearest 5 degrees grees)	data - Number		
	nal Information				
*All oth	er columns must be	left "blank" or hold the value	e "LEAVE BLANK" as default in CAT		
	pendix C.1.2 for a CA				



		SW House Drain Sum	p (Point)		
Point T	уре	E08 "Point Asset Inputs"	•		
		·		Lowest Corner	Centre of structu
				Lid Z	ХҮ
CAT Column	SAG Description		Valid Values		
Α	Type of Point Feature		E08		
BC	Type of Sump		Select from pick list: domSwInletType		× V
С	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	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)		
G	Centre of Structure in Northin	ng coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)		
Н	RL on lowest corner of lid - (m)	data - Decimal Number (6 Chars, 3 Decimals)		
1	RL at base of pit (lowest poir	nt) - (m)	data - Decimal Number (6 Chars, 3 Decimals)		
J	Width and length of pit (e.g.	600x800) or diameter of pit - (mm)	data - Number		
к к	Date of commission		data - Date (dd/mm/yyyy)		
L	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	PLAN	CROSS SECTION
М	Name of main contractor who	o installed the asset	Select from pick list: domInstallationCompany		
N	Date of 'survey start'		data - Date (dd/mm/yyyy)		
0	Style of sump lid		Select from pick list: domAccessLidStyle		Sump RL
P	Leave Blank		Leave Blank		
Q	Manufacturer of asset		Select from pick list: domManufacturer		Z
R	Construction material of sum		Select from pick list: domAccessConstruction		
S	Type of security on sump acc		Select from pick list: domAccessSecurity		
	Pit angle - orientation of i (rectangular pits only) - (deg	nner structure to nearest 5 degrees	data - Number		



Name		SW Square Manhole V	/ented (Point)	
Point Typ	Point Type E09 "Point Asset Inputs"		•	Lowest Corner
				Lid Z
CAT Column	SAG Description		Valid Values	
A B C D	Type of Point Feature		E09	
В	Type of Manhole or Access		Select from pick list: domSwAccessType	
С	Asset Record Capture Type		Select from pick list: domAssetRecordCaptureType	
DE	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 H	Centre of Structure in Northing coordinate - (m)		data - Decimal Number (12 Chars, 2 Decimals)	
Н	RL on lowest corner of lid		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	
К	Date of commission		data - Date (dd/mm/yyyy)	Centre
L	Location certainty - accuracy of data		Select from pick list: domLocationCertainty	structu
М	Name of main contractor whether the second s	no installed the asset	Select from pick list: domInstallationCompany	V X Y
Ν	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Style of access lid		Select from pick list: domAccessLidStyle	
Р	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	
т	(rectangular pits only) - (deg		data - Number	
U	Treatment material for refur	bished manholes	Select from pick list: domAccessTreatmentType	
				Manhole Base RL
				7
				E
Addition	al Information			
*All oth	er columns must be	eft "blank" or hold the value	e "LEAVE BLANK" as default in CAT	
	eave blank/unchange			



	SW Square Manhole	Non Vented (Point)	
Point Typ	be E10 "Point Asset Inputs"	•	
			Lowest Corner
CAT Column	SAG Description	Valid Values	Lid Z
AB	Type of Point Feature	E10	
В	Type of Manhole or Access	Select from pick list: domSwAccessType	
С	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)	
Н	RL on lowest corner of lid	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	Centre
K	Date of commission	data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty	
М	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany	
N	Date of 'survey start'	data - Date (dd/mm/yyyy)	struct
0	Style of access lid	Select from pick list: domAccessLidStyle	ע א 🗸
Р	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	
т	Pit angle - orientation of inner structure to nearest 5 degrees (rectangular pits only) - (degrees)	³ data - Number	
U	Treatment material for refurbished manholes	Select from pick list: domAccessTreatmentType	



me		SW Circular Manhole	Vented (Point)	
int Type		E11 "Point Asset Inputs"	•	Lowest Corner Lid Z
	SAG Description		Valid Values	
	Point Feature		E11	
			Select from pick list: domSwAccessType	
Asset Re	cord Capture Type		Select from pick list: domAssetRecordCaptureType	
Differs fr	om design (yes/no)		Select from pick list: domDiffersFromDesign	
Asset Ur	ique Identifier		data - Text (100 Characters)	
Centre o	f Structure in Easting	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	1 📖 ///
Centre o	f Structure in Northin	ng coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
RL on lo	west corner of lid		data - Decimal Number (6 Chars, 3 Decimals)	
RL at ba	base of pit (lowest point) - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
Width ar	d length of pit (e.g.	600x800) or diameter of pit - (mm)	data - Number	Centre structu X Y
Date of o	commission		data - Date (dd/mm/yyyy)	
Location	certainty - accuracy	of data	Select from pick list: domLocationCertainty	
Name of	main contractor whe	o installed the asset	Select from pick list: domInstallationCompany	
Date of '	survey start'		data - Date (dd/mm/yyyy)	
Style of	access lid		Select from pick list: domAccessLidStyle	V
Shape o	access lid		Select from pick list: domAccessLidShape	
Manufac	turer of asset		Select from pick list: domManufacturer	
Construc	tion material		Select from pick list: domAccessConstruction	
Type of s	security on access		Select from pick list: domAccessSecurity	
•		0	data - Number	
Treatme	nt material for refurb	ished manholes	Select from pick list: domAccessTreatmentType	
	Iumn Type of F Type of F Asset Re Differs fr Asset Ur Centre o Centre o RL on lov RL at bas Width an Date of c Location Name of Date of 's Style of a Shape of Manufac Construc Type of s	Iumn Type of Point Feature Type of Manhole or Access Asset Record Capture Type Differs from design (yes/no) Asset Unique Identifier Centre of Structure in Easting Centre of Structure in Northing RL on lowest corner of lid RL at base of pit (lowest point Width and length of pit (e.g. 0) Date of commission Location certainty - accuracy Name of main contractor who Date of 'survey start' Style of access lid Manufacturer of asset Construction material Type of security on access Pit angle - orientation of i (rectangular pits only) - (degreed)	Iumn Type of Point Feature Type of Manhole or Access Asset Record Capture Type Differs from design (yes/no) Asset Unique Identifier Centre of Structure in Easting coordinate - (m) Centre of Structure in Northing coordinate - (m) RL on lowest corner of lid RL at base of pit (lowest point) - (m) Width and length of pit (e.g. 600x800) or diameter of pit - (mm) Date of commission Location certainty - accuracy of data Name of main contractor who installed the asset Date of 'survey start' Style of access lid Manufacturer of asset Construction material Type of security on access Pit angle - orientation of inner structure to nearest 5 degrees (rectangular pits only) - (degrees)	IumnE11Type of Point FeatureE11Type of Manhole or AccessSelect from pick list: domSwAccessTypeAsset Record Capture TypeSelect from pick list: domAssetRecordCaptureTypeDiffers from design (yes/no)Select from pick list: domDiffersFromDesignAsset Unique Identifierdata - Text (100 Characters)Centre of Structure in Easting coordinate - (m)data - Decimal Number (12 Chars, 2 Decimals)Centre of Structure in Northing coordinate - (m)data - Decimal Number (12 Chars, 2 Decimals)RL on lowest corner of liddata - Decimal Number (6 Chars, 3 Decimals)RL at base of pit (lowest point) - (m)data - Decimal Number (6 Chars, 3 Decimals)Width and length of pit (e.g. 600x800) or diameter of pit - (mm)data - Date (d/mm/yyyy)Location certainty - accuracy of dataSelect from pick list: domLocationCertaintyName of main contractor who installed the assetSelect from pick list: domAccessLidStyleShape of access lidSelect from pick list: domAccessLidStyleShape of access lidSelect from pick list: domAccessLidStyleShape of access lidSelect from pick list: domAccessLidStyleManufacturer of assetSelect from pick list: domAccessLidStyleConstruction materialSelect from pick list: domAccessConstructionType of security on accessSelect from pick list: domAccessConstructionPit angle - orientation of inner structure to nearest 5 degrees (rectangular pits only) - (degrees)data - Number



	Name		SW Circular Manhole I	Non Vented (Point)	
	Point Type E12 "Point Asse		E12 "Point Asset Inputs"	•	Lowest Corner Lid Z
		SAG Description		Valid Values	
nted	A	Type of Point Feature		E12	
Ē	В	Type of Manhole or Access	3	Select from pick list: domSwAccessType	
Ð	С	Asset Record Capture Type	9	Select from pick list: domAssetRecordCaptureType	
>	D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	
	E	Asset Unique Identifier		data - Text (100 Characters)	
0	F	Centre of Structure in Easti	ng coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Ζ	G	Centre of Structure in North	ning coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
-	Н	RL on lowest corner of lid		data - Decimal Number (6 Chars, 3 Decimals)	Centre
ole	1	RL at base of pit (lowest point) - (m)		data - Decimal Number (6 Chars, 3 Decimals)	structu
0	J	Width and length of pit (e.g. 600x800) or diameter of pit - (mm)		data - Number	X Y
<u>u</u>	K	Date of commission		data - Date (dd/mm/yyyy)	V
ar	L	Location certainty - accurate	cy of data	Select from pick list: domLocationCertainty	V
Ň	М	Name of main contractor w	ho installed the asset	Select from pick list: domInstallationCompany	
	Ν	Date of 'survey start'		data - Date (dd/mm/yyyy)	
ar	0	Style of access lid		Select from pick list: domAccessLidStyle	
n	Р	Shape of access lid		Select from pick list: domAccessLidShape	
5	Q	Manufacturer of asset		Select from pick list: domManufacturer	
S	R	Construction material		Select from pick list: domAccessConstruction	
$\overline{\mathbf{O}}$	S	Type of security on access		Select from pick list: domAccessSecurity	
S	т	Pit angle - orientation of (rectangular pits only) - (de	inner structure to nearest 5 degrees grees)	data - Number	
S	U	Treatment material for refu	rbished manholes	Select from pick list: domAccessTreatmentType	
3					
Ξ	Addition	nal Information			Manhole Base RL Z
F			left "blank" or hold the value	e "LEAVE BLANK" as default in CAT	
			ed for circular manholes		
		eave blank/unchange pendix C.1.1 for a CA			



Name		SW Flush Manhole (Po	oint) 👛	
Point Ty	Point Type E13 "Point Asset Inputs"			Lowest Corner Lid Z
CAT Column	SAG Description		Valid Values	
A	Type of Point Feature		E13	The second s
В	Type of Manhole or Access		Select from pick list: domSwAccessType	
С	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 G H	Centre of Structure in Eastin	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Northi	ng coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	RL on lowest corner of lid		data - Decimal Number (6 Chars, 3 Decimals)	
	RL at base of pit (lowest poi	nt) - (m)	data - Decimal Number (6 Chars, 3 Decimals)	
J	Width and length of pit (e.g.	600x800) or diameter of pit - (mm)	data - Number	
	Date of commission	, , ,	data - Date (dd/mm/yyyy)	
	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	
бМ	Name of main contractor wh	o installed the asset	Select from pick list: domInstallationCompany	Centre of structure
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
\circ	Style of access lid		Select from pick list: domAccessLidStyle	- XY 🔽
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	
а Ј Т	Pit angle - orientation of (rectangular pits only) - (deg	nner structure to nearest 5 degrees rees)	data - Number	
U	Treatment material for refur	bished manholes	Select from pick list: domAccessTreatmentType	
*All otl Col T:		d for circular manholes	"LEAVE BLANK" as default in CAT	Manhole Base RL Z



Name		SW Main Pipes		Centre of structure
Line Type E17 "Line Asset Inputs"		E17 "Line Asset Input	s"	X Y and Z
CAT Column	SAG Description		Valid Values	
Α	Type of Line Feature		E17	
В	Type of Pipe		Select from pick list: domSwPipeType	
С	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	e - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
н	Invert Level at Vertex - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
	Number of Vertex (point along	ine)	data - Number	
J	Material of pipe	·	Select from pick list: domPipeConstruction	
К	Nominal diameter in mm - (mm)	Select from pick list: domPipeNominalDiameter	
	At Node - Asset Unique Identifi	er	data - Text (50 Characters)	
M N	To Node - Asset Unique Identif	er	data - Text (50 Characters)	
N	Manufacturer of asset		Select from pick list: domManufacturer	
0	Name of main contractor who i	nstalled the asset	Select from pick list: domInstallationCompany	At Pit To Pi
P	Pressure class (PN)		Select from pick list: domPipePressureClass	X – Y and Z X – Y ar
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	
JU	Date of 'survey start'		data - Date (dd/mm/yyyy)	
V	Shape of pipe		Select from pick list: domSwPipeShape	
W	Leave Blank		Leave Blank	
Х	Method by which the pipe was	nstalled	Select from pick list: domPipeInstallationMethod	
*All oth All bend requires	ds, start/end points to s at least two row entrie	be surveyed. Crea	he value "LEAVE BLANK" as default in CAT ate one CAT row per surveyed point. This feature with the downstream end	





Name		SW Lateral (Line)		
Line Typ	ре	E19 "Line Asset Inputs"	-	
				Centre of structure
CAT Column	SAG Description		Valid Values	ХҮ
А	Type of Line Feature		E19	
В	Type of Lateral		Select from pick list: domSwLateralType	
С	Asset Record Capture Ty	ре	Select from pick list: domAssetRecordCaptureType	ľ
D	Differs from design (yes/r	0)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	At Start
F	Line Vertex Easting coor	dinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	X and Y
G	Line Vertex Northing coo	rdinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
Ι	Number of Vertex (point a	along line)	data - Number	
J	Material of pipe		Select from pick list: domPipeConstruction	
К	Nominal diameter in mm	- (mm)	Select from pick list: domPipeNominalDiameter	
L	Leave Blank		Leave Blank	<u> </u>
М	Leave Blank		Leave Blank	
Ν	Manufacturer of asset		Select from pick list: domManufacturer	×
0	Name of main contractor	who installed the asset	Select from pick list: domInstallationCompany	
Р	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)	
Т	Location certainty - accur	acy 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	Leave Blank		Leave Blank	
Х	Method by which the pipe	e was installed	Select from pick list: domPipeInstallationMethod	
Y	Leave Blank		Leave Blank	
Z	Do several units share th	is lateral? (yes/no)	Select from pick list: domLateralSharedConnection	
AA	Type of Lateral Junction		Select from pick list: domSwEyeType	
AB	Distance of IP from Later	al Start (from connection to existing private lateral) - (mm)	data - Decimal Number (9 Chars, 3 Decimals)	
	onal Information			
*All of	her columns must b	e left "blank" or hold the value "LEAVE B	LANK" as default in CAT	
		to be surveyed. Create one CAT row per		
		to be surveyed. Create one CAT fow per	Surveyed point. This reature requires	
Col I:	st two row entries.			



Name		W Repair/Rela		Distance to start and end of
Line Type	e Ež	20 "Line Asset Input	, " 	repair from upstream MH
CAT Column	SAG Description		Valid Values	U/S
А	Type of Line Feature		E20	
В	Type of Repair		Select from pick list: domRepairType	
С	Asset Record Capture Type		Select from pick list: domAssetRecordCaptureT	ype
D	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Line Vertex Easting coordinate - (r	n)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Line Vertex Northing coordinate -	(m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
1	Number of Vertex (point along line)	data - Number	
l J	Material used for repair		Select from pick list: domRepairConstruction	
К	Nominal diameter in mm - (mm)		Select from pick list: domPipeNominalDiameter	
L	At Node - Asset Unique Identifier		data - Text (50 Characters)	
М	To Node - Asset Unique Identifier		data - Text (50 Characters)	
N	Manufacturer of asset		Select from pick list: domManufacturer	
0	Name of main contractor who insta	alled the asset	Select from pick list: domInstallationCompany	
Р	Leave Blank		Leave Blank	
Q	Leave Blank		Leave Blank	
R	Leave Blank		Leave Blank	
S	Date of commission		data - Date (dd/mm/yyyy)	
Т	Location certainty - accuracy of da	ta	Select from pick list: domLocationCertainty	
U	Date of 'survey start'		data - Date (dd/mm/yyyy)	
V	Distance from US MH to lining stat	rt (m) - (m)	data - Decimal Number (9 Chars, 3 Decimals)	
W	Distance from US MH to lining end		data - Decimal Number (9 Chars, 3 Decimals)	
Addition	nal Information			
			ne value "LEAVE BLANK" as default in CAT	
		niy (new pipe se	ctions or pipe clamps) – pipe lining is to b	De la
	l into D21.			
			res only one row per repair.	
Col V&V	V: Make sure to measure	distances from	the inner wall of the upstream manhole st	ructure.
	pendix C.2.8 for a CAT ex		·	
1 PI				



Name		SW Pipe Lining	(Line)	Distance to start and end o
Line Type E21 "Line Asset Inputs"			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lining from upstream MH
CAT Column	SAG Description		Valid Values	U/S
А	Type of Line Feature		E21	
В	Type of Repair		Select from pick list: domRepairType	
С	Asset Record Capture Typ	e	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 coordin	nate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Line Vertex Northing coord	inate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
I	Number of Vertex (point al	ong line)	data - Number	
J	Material used for repair		Select from pick list: domRepairConstruction	
K	Nominal diameter in mm -	(mm)	Select from pick list: domPipeNominalDiameter	
L	At Node - Asset Unique Ide	entifier	data - Text (50 Characters)	
М	To Node - Asset Unique Id	entifier	data - Text (50 Characters)	and the second sec
Ν	Manufacturer of asset		Select from pick list: domManufacturer	
0	Name of main contractor w	ho installed the asset	Select from pick list: domInstallationCompany	
Р	Leave Blank		Leave Blank	
Q	Leave Blank		Leave Blank	
R	Leave Blank		Leave Blank	
S	Date of commission		data - Date (dd/mm/yyyy)	
Т	Location certainty - accurate	cy of data	Select from pick list: domLocationCertainty	
U	Date of 'survey start'	-	data - Date (dd/mm/yyyy)	
V	Distance from US MH to lir	iing start (m) - (m)	data - Decimal Number (9 Chars, 3 Decimals)	
W	Distance from US MH to lin	ing end (m) - (m)	data - Decimal Number (9 Chars, 3 Decimals)	
Additio	nal Information			
Use this entered If enter Col V&V	s feature for pipe lini l into D20. ed without coordinat	ng only (lining patche es, this feature requi sure distances from t	ne value "LEAVE BLANK" as default in CAT es or fully lined pipes) – pipe repairs are to be res only one row per patch. the inner wall of the upstream manhole structure.	Pipe lining schematic



Name		SW Junction (F	Point)	Centre of Junction
Point	Гуре	E22 "Point Asset Input	•	
		· · ·		ХҮ
CAT Columr	SAG Description		Valid Values	
А	Type of Point Feature		E22	
В	Type of Junction		Select from pick list: domSwFittingType	
С	Asset Record Capture Ty	ре	Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/n	o)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Centre of Structure in Eas		data - Decimal Number (12 Chars, 2 Decimals)	
F G	Centre of Structure in Nor	thing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
	Leave Blank		Leave Blank	
2 <u>'</u>	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
к	Date of commission		data - Date (dd/mm/yyyy)	•
L	Location certainty - accura		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)	
- 77 - 7				Slandard 'Y junction
	ional Information ther columns must be	e left "blank" or hold t	he value "LEAVE BLANK" as default in CAT	Main



Name		SW Lateral Jun	ction (Point)	
Point Ty	oe	E23 "Point Asset Inputs"		
				Centre of Lateral Junction
CAT Column	SAG Description		Valid Values	ХҮ
А	Type of Point Feature		E23	
В	Type of Lateral Junction		Select from pick list: domSwEyeType	T ⁴ T
С	Asset Record Capture Typ	e	Select from pick list: domAssetRecordCaptureType	
D E F	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	tera
E	Asset Unique Identifier		data - Text (100 Characters)	Lateral
F	Centre of Structure in East		data - Decimal Number (12 Chars, 2 Decimals)	Ľ
G	Centre of Structure in North	ning coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
1	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
К	Date of commission		data - Date (dd/mm/yyyy)	
J K L M	Location certainty - accura		Select from pick list: domLocationCertainty	
М	Name of main contractor w	ho installed the asset	Select from pick list: domInstallationCompany	Main Sewer
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	ingin Sewer
				This asset is located at the junction between a lateral
	nal Information	left "blank" or bold th	ne value "LEAVE BLANK" as default in CAT	and a main
	pendix C.1.3 for a CA		le value LLAVE DEANK as delauit in CAT	



Name		SW Inspection	Point (Point)	
Point Type		E24 "Point Asset Input	s"	
				Centre of Inspection Point
CAT Column	SAG Description		Valid Values	X Y
А	Type of Point Feature		E24	
В	Type of Manhole or Access		Inspection Point	
С	Asset Record Capture Type		Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	\sim
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Centre of Structure in Easti		data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in North	iing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	100# 45°
Н	Leave Blank Leave Blank Leave Blank		Leave Blank	Inspection Bend
H I J			Leave Blank	
J			Leave Blank	
K	Date of commission		data - Date (dd/mm/yyyy)	
_ _	Location certainty - accurac		Select from pick list: domLocationCertainty	
M	Name of main contractor w	ho installed the asset	Select from pick list: domInstallationCompany	
N	Date of 'survey start'		data - Date (dd/mm/yyyy) Leave Blank	\sim
0	Leave Blank Leave Blank		Leave Blank	
Q	Leave Blank		Leave Blank	- 100¢ Inspection P
R	Construction material		Select from pick list: domAccessConstruction	
*All oth	nal Information er columns must be pendix C.1.4 for a CA		he value "LEAVE BLANK" as default in CAT	



Name		SW End Cap (P	oint) 🔴	
Point T	/pe	E25 "Point Asset Input		
CAT Column	SAG Description		Valid Values	
А	Type of Point Feature		E25	
В	Type of End Cap		Select from pick list: domSwFittingType	
С	Asset Record Capture Ty	ре	Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/n	o)	Select from pick list: domDiffersFromDesign	
Е	Asset Unique Identifier		data - Text (100 Characters)	
F	Centre of Structure in Eas	sting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
	Centre of Structure in Nor	thing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
H C	Leave Blank		Leave Blank	
-	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
L K	Date of commission		data - Date (dd/mm/yyyy)	
	Location certainty - accura	acy of data	Select from pick list: domLocationCertainty	
M	Name of main contractor	who installed the asset	Select from pick list: domInstallationCompany	
	Date of 'survey start'		data - Date (dd/mm/yyyy)	V
0	Leave Blank		Leave Blank	
ΩΡ	Leave Blank		Leave Blank	Ground Level
	Leave Blank		Leave Blank	
R	Construction material		Select from pick list: domAccessConstruction	End Cap Lateral
				Section
				View
۸ ما ما : ۱ :				-
	onal Information			
∣ *All ot	her columns must be	e left "blank" or hold th	ne value "LEAVE BLANK" as default in CAT	



Name		SW Thrust Blo	ck – Non – Standard (Outline)	
Polygon Type		E26 "Polygon Asset	nputs"	Thrust Block Outline of
				Structure
CAT Column	SAG Description		Valid Values	ХҮ
А	Type of Polygon Feature		E26	
В	Type of Thrust Block		Select from pick list: domSwPipeRestraintType	
С	Asset Record Capture Ty	ре	Select from pick list: domAssetRecordCaptureType	(4) (1)
D	Differs from design (yes/r	o)	Select from pick list: domDiffersFromDesign	**
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Polygon Vertex Easting c	oordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	<
G	Polygon Vertex Northing	coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
1	Number of Vertex (point a	long outline)	data - Number	
J	Predominant material of s	structure	Select from pick list: domAccessConstruction	
К	Leave Blank		Leave Blank	<hr/>
L	Name of main contractor	who installed the asset	Select from pick list: domInstallationCompany	
Μ	Date of commission		data - Date (dd/mm/yyyy)	
Ν	Location certainty - accur	acy of data	Select from pick list: domLocationCertainty	
0	Date of 'survey start'		data - Date (dd/mm/yyyy)	
				3 2
	nal Information			
			the value "LEAVE BLANK" as default in CAT	
For non	-standard thrust bl	ocks, all corner point	s along outline are to be surveyed. Create one CAT	
row per	surveyed point. Th	is feature requires at	least three row entries.	
	nter number of ver			
	pendix C.3.1 for a C			



Point Type		E27 "Doint Accort Inpute"		
		E27 "Point Asset Inputs"		Thurst Disals Control of
CAT Column	SAG Description		Valid Values	Thrust Block Centre of Structure
A	Type of Point Feature		E27	ХҮ
В	Type of Thrust Block		Select from pick list: domSwPipeRestraintType	
С	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 Eastin	g coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Northing coordinate - (m) Leave Blank		data - Decimal Number (12 Chars, 2 Decimals)	
Н			Leave Blank	
1	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
К	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	
М	Name of main contractor wh	o installed the asset	Select from pick list: domInstallationCompany	
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
*All oth			the value "LEAVE BLANK" as default in CAT re of structure is to be surveyed	



Name		SW Pump (Point)		
Point Ty	pe	E28 "Point Asset Inputs	, 	
CAT Column	SAG Description Type of Point Feature		Valid Values	Centre of Pump
A			E28	
В	Type of Pump	Select from pick list: domSwPumpType	Select from pick list: domSwPumpType	X Y and Z (on pump)
С	Asset Record Capture Type		Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/no) Asset Unique Identifier Centre of Structure in Easting coordinate - (m)		Select from pick list: domDiffersFromDesign	
E			data - Text (100 Characters)	A CONTRACTOR OF THE
F			data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Northin	ng coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
ЪΗ	Height above datum - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
J	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
К	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy of data Name of main contractor who installed the asset Date of 'survey start'		Select from pick list: domLocationCertainty	
M			Select from pick list: domInstallationCompany	
N			data - Date (dd/mm/yyyy)	
0	Name and/or number of pum	p station	data - Text (50 Characters)	and the second second
P	Leave Blank		Leave Blank	
Q	Manufacturer of asset		Select from pick list: domManufacturer	
R	Serial number of asset		data - Text (50 Characters)	
S	Backup energy source		Select from pick list: domBackupEnergySource	
Т	Situation of Pump		Select from pick list: domPumpSituation	
U	Maximum capacity of pump i		data - Number	
V	Manufacturer warranty refere	ence	data - Text (50 Characters)	
W	Manufacturer warranty term	n years	data - Number	
Additio	nal Information			
		ft "blook" on bold th	e value "LEAVE BLANK" as default in CAT	
			e value LEAVE BLAINK as default in CAT	
Col O:	leave blank/unchange	d if N/A		



Name		SW Outlet/Outfall (Point)		
Point Typ	De	E29 "Point Asset Inpu	ts"	
CAT Column	SAG Description		Valid Values	Outlet/Outfall
А	Type of Point Feature		E29	
В	Type of Outfall/Outlet		Select from pick list: domSwOutletType	X Y and Z
С	Asset Record Capture Typ	be	Select from pick list: domAssetRecordCaptureType	
D	Differs from design (yes/n	o)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
F G	Centre of Structure in Eas	ting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
G	Centre of Structure in Nor	thing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	TUITULE
н	Leave Blank		Leave Blank	- ALLER AND ALL
	Height above datum - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
J	Leave Blank Date of commission		Leave Blank	
H I J K L			data - Date (dd/mm/yyyy)	Angel
5 L	Location certainty - accura	acy of data	Select from pick list: domLocationCertainty	
М	Name of main contractor who installed the asset		Select from pick list: domInstallationCompany	10 30-00 <u>20-00</u>
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Leave Blank		Leave Blank	
P	Leave Blank		Leave Blank	
Q	Manufacturer of asset		Select from pick list: domManufacturer	
R	Leave Blank		Leave Blank	
S	Type of security on outlet	access	Select from pick list: domAccessSecurity	
	nal Information er columns must be	e left "blank" or hold t	he value "LEAVE BLANK" as default in CAT	



Name		SW Valve (Point))	
Point Ty	Point Type E30 "Point Asset Inputs"			
-				
CAT Column	SAG Description		Valid Values	Centre of Valve X Y and Z
А	Type of Point Feature Type of Valve Asset Record Capture Type Differs from design (yes/no)		E30	
В			Select from pick list: domSwValveType	
С			Select from pick list: domAssetRecordCaptureType Select from pick list: domDiffersFromDesign	
D				
Е	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 North	ing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Height above datum - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
G H J	Leave Blank		Leave Blank	A TANK A COMPANY
J	Nominal diameter in mm - (mm)		Select from pick list: domValveNominalDiameter	
ĸ	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy of data Name of main contractor who installed the asset		Select from pick list: domLocationCertainty	
М			Select from pick list: domInstallationCompany	
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Valve normal operating posi	ition - open or closed	Select from pick list: domValveNormalPosition	
Р	Manual or motorised valve		Select from pick list: domValveActuation	
Q	Manufacturer of asset		Select from pick list: domManufacturer	
R	Valve closure rotation direct	lion	Select from pick list: domValveClosureRotation	
S	Situation of Valve		Select from pick list: domValveSituation	
Т	Main function of valve		Select from pick list: domSwValveFunction	
U	Valve control point		Select from pick list: domValveControlPoint	
V	Manufacturer warranty refer		data - Text (50 Characters)	
W	Manufacturer warranty term	in years	data - Number	
Additio	nal Information			
		left "blank" or hold th	e value "LEAVE BLANK" as default in CAT	



Name	S	V Culvert (Line)		Centre of structure	
Line Ty	pe E3	E31 "Line Asset Inputs"		X Y and Z	
	Line feat	ures require at least t	wo row entries in the CAT.	X Yanu Z	
CAT Column	SAG Description		Valid Values		
Α	Type of Line Feature		E31	Main Road	
В	Type of Pipe		Select from pick list: domSwPipeType	Seawal to be causeway Existing all	
С	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 - (n)	data - Decimal Number (12 Chars, 2 Decimals)		
G	Line Vertex Northing coordinate - (n)	data - Decimal Number (12 Chars, 2 Decimals)	Estuary New polyethelene pipe (PE) to replace McCom	
н	Invert Level at Vertex - (m)		data - Decimal Number (6 Chars, 3 Decimals)	existing culvert	
1	Number of Vertex (point along line)		data - Number		
J	Material of pipe		Select from pick list: domPipeConstruction		
К	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: domManufacturer	A REAL PROPERTY AND A REAL	
0	Name of main contractor who insta	led the asset	Select from pick list: domInstallationCompany	INVERTIGATION OF A DESCRIPTION OF A DESC	
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)		
Т	Location certainty - accuracy of da	a	Select from pick list: domLocationCertainty		
U	Date of 'survey start'		data - Date (dd/mm/yyyy)		
V	Shape of pipe		Select from pick list: domSwPipeShape		
W	Leave Blank		Leave Blank		
Х	Method by which the pipe was inst	lled	Select from pick list: domPipeInstallationMethod		
	onal Information	alant" or hold the		All bends, start/end points to b surveyed. Create one CAT row	
Create	e one CAT row for each ver e one CAT row for each ver enter number of vertex alo	ex, starting at dov		surveyed point.	



Name		SW Headwall Inlet/Out	let (Point)	
Point Type E32 "Point Asset Inputs"		E32 "Point Asset Inputs"		_
CAT Column	SAG Description		Valid Values	
A	Type of Point Feature		E32	Outlet/Outfall
B	Type of Outfall/Outlet		Select from pick list: domSwHeadwallType	X Y and Z
-			Select from pick list: domAssetRecordCaptureType	
C D E	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
	Centre of Structure in Easting	coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
F G H I	Centre of Structure in Northin		data - Decimal Number (12 Chars, 2 Decimals)	
Н	Height above datum - (m)	3 • • • • • • • • • • • • • • • • • • •	data - Decimal Number (6 Chars, 3 Decimals)	
1	Leave Blank		Leave Blank	
J	Leave Blank		Leave Blank	
К	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	
K L M N O	Name of main contractor who	installed the asset	Select from pick list: domInstallationCompany	
N	Date of 'survey start'		data - Date (dd/mm/yyyy)	
0	Construction material		Select from pick list: domSwHeadwallConstruction	
Р	Primary Apron construction m	aterial	Select from pick list: domSwHeadwallApronConstruction	
Q	Wing Wall Type		Select from pick list: domSwHeadwallWingwallType	
R	Width of pipe face wall, meas	ured in metres (m).	data - Decimal Number (6 Chars, 3 Decimals)	
S	Width across front face of wir	g wall only, measured in metres(m)	data - Decimal Number (6 Chars, 3 Decimals)	
Т	Depth from pipe face wall to e	end of apron, measured in metres	data - Decimal Number (6 Chars, 3 Decimals)	
U	(m) (m)	p of pipe face wall, measured in metres	data - Decimal Number (6 Chars, 3 Decimals)	
V	Thickness, wall thickness of p	ipe face wall, measured in metres (m).	data - Decimal Number (6 Chars, 3 Decimals)	
W	Number of openings in headv	vall.	data - Number	
Х	Accessibility, ease of access?	?	Select from pick list: domSwHeadwallAccessibility	_
Additio	nal Information			
		ft "blank" or hold the value	e "LEAVE BLANK" as default in CAT	1



Name	SW Flow F	Restriction 'Weir' (Point)		
Point Typ	be E33 "Point Ass	set Inputs"		
			Flow Restriction	
CAT Column	SAG Description	Valid Values	X Y and Z	
A	Type of Point Feature	E33		
В	Type of Stormwater Flow Restriction	Select from pick list: domSwFlowRestrictionType		
С	Asset Record Capture Type	Select from pick list: domAssetRecordCaptureType		
D E F G	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)		
Н	RL at which water overflows - (m)	data - Decimal Number (6 Chars, 3 Decimals)		
1	Leave Blank	Leave Blank		
J	Leave Blank	Leave Blank		
К	Date of commission	data - Date (dd/mm/yyyy)		
L	Location certainty - accuracy of data	Select from pick list: domLocationCertainty		
М	Name of main contractor who installed the asset	Select from pick list: domInstallationCompany		
N	Date of 'survey start'	data - Date (dd/mm/yyyy)		
0	Leave Blank	Leave Blank		
Р	Leave Blank	Leave Blank		
Q	Manufacturer of asset	Select from pick list: domManufacturer		
	nal Information			
*All oth	er columns must be left "blank" or	hold the value "LEAVE BLANK" as default in CAT	-	



		SW Structural Pipe Protection (Line) E34 "Point Asset Inputs"			
Point Typ	e E				
				Pipe Protection X Y	
CAT Column	SAG Description		Valid Values		
А	Type of Line Feature		E34		
В	Type of Structural Pipe Protectio	n	Select from pick list: domSwPipeProtectionType		
С	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)	1000 Contract (1970)	
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)		
Н	Leave Blank		Leave Blank		
I	Number of Vertex (point along lir	e)	data - Number		
J	Leave Blank		Leave Blank	and the second second	
К	Leave Blank		Leave Blank		
L	Leave Blank		Leave Blank		
М	Leave Blank		Leave Blank		
N	Leave Blank		Leave Blank		
0	Name of main contractor who ins	talled the asset	Select from pick list: domInstallationCompany		
Р	Leave Blank		Leave Blank		
Q	Leave Blank		Leave Blank	CASER. A CASE FA	
R	Leave Blank		Leave Blank		
S	Date of commission		data - Date (dd/mm/yyyy)		
Т	Location certainty - accuracy of o	lata	Select from pick list: domLocationCertainty	and the second s	
U	Date of 'survey start'		data - Date (dd/mm/yyyy)		



Name		SW Structure (O	utline)	
Polygon	Туре	E36 "Polygon Asset Inp	uts"	Structure Outline XY
CAT Column	SAG Description		Valid Values	
А	Type of Polygon Feature		E36	
В	Type of Structure Asset Record Capture Type Differs from design (yes/no) Asset Unique Identifier Polygon Vertex Easting coordinate - (m)		Select from pick list: domSwStructureType	
С			Select from pick list: domAssetRecordCaptureType	
D			Select from pick list: domDiffersFromDesign	
E			data - Text (100 Characters)	
F			data - Decimal Number (12 Chars, 2 Decimals)	(1)
G	Polygon Vertex Northing co	ordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Leave Blank		Leave Blank	
I	Number of Vertex (point alo	ng outline)	data - Number	
J	Predominant material of str	ucture	Select from pick list: domAccessConstruction	2
К	Leave Blank		Leave Blank	
L	Name of main contractor who installed the asset		Select from pick list: domInstallationCompany	
L M N	Date of commission		data - Date (dd/mm/yyyy)	
Ν	Location certainty - accurac	y of data	Select from pick list: domLocationCertainty	
0	Date of 'survey start'		data - Date (dd/mm/yyyy)	the second se
Additio	nal Information			
		left "blank" or hold th	ne value "LEAVE BLANK" as default in CAT	



Name		SW Grill (Point)		Grille
Point Type E39 "Point Asset Inputs		E39 "Point Asset Inputs"		X Y and Z
CAT Column	SAG Description		Valid Values	
A	Type of Point Feature		E39	
В	Type of Grill		Select from pick list: domSwGrillType	
С	Asset Record Capture Typ	De	Select from pick list: domAssetRecordCaptureType	MANY CALL AND
D	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Centre of Structure in Eas	ting coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	Q, Length R, Width
G	Centre of Structure in Nor	thing coordinate - (m)	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Height above datum - (m)		data - Decimal Number (6 Chars, 3 Decimals)	
1	Leave Blank		Leave Blank	S, Height
J	Leave Blank		Leave Blank	
К	Date of commission		data - Date (dd/mm/yyyy)	
L	Location certainty - accura	acy 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)	
0	Construction material		Select from pick list: domSwGrillConstruction	
Р	Length of Grill measured i	n metres - (m)	data - Decimal Number (6 Chars, 3 Decimals)	
Q	Width of Grill measured in	metres	data - Decimal Number (6 Chars, 3 Decimals)	
R	Typical height above bed,		data - Decimal Number (6 Chars, 3 Decimals)	
S	Typical spacing between I	pars, measured in metres	data - Decimal Number (6 Chars, 3 Decimals)	
Т	Type of security on grill		Select from pick list: domAccessSecurity	
U	Leave Blank		Leave Blank	
V	Leave Blank		Leave Blank	
W	Accessibility, ease of acce	ess?	Select from pick list: domSwGrillAccessibility	
Additio	nal Information			and a state of the
*All ot	ner columns must be	left "blank" or hold the	e value "LEAVE BLANK" as default in CAT	