



發展局
Development Bureau

BIM HARMONISATION GUIDELINES FOR WORKS DEPARTMENTS

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Appendix X – Common Codes for Information Container ID Fields

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Table App X-1 Abbreviation Codes for Field 3.2 – System

Sorted by Codes

Codes	Definition	Currently Used By
BD	Building	None
DCS	District Cooling System	None
FO	Sewerage	None
GE	Geotechnical	None
GS	Gas Supply ¹	None
HWS	Highway Structures	None
LA	Landscape ²	None
PS	Electrical Power Supply ³	None
RD	Road	None
SD	Stormwater Drainage	None
SI	General Site Information (including existing condition)	None
TC	Telecommunication ⁴	None
WS	Water Supply	None
ZZ	Multiple systems for combined model	ISO UK Annex

¹ For example, Towngas

² Landscape is a system when it is used to define the all elements within a boundary of a country park, neighbourhood park, etc. It would contain both landscape discipline models and models of structures within these parks. (When “Landscape” is a discipline, it deals specifically with landscape elements such as hardscape, softscape, planting, landscape features, etc.)

³ For example, CLP (China Light and Power), HK Electric

⁴ For example, Smartone, HKT, HKBN, PCCW etc.

Table App X-2 Abbreviation Codes for Field 4.1 – Location

Sorted by Revamped Location ID

Known Codes	Revamped Location ID	Definition	Currently Used By
ADB	AB	Administration Building	WSD
N/A	AC	Ancillary Block	This Study
AET	AET	Aerobic Tank	DSD
ANT	ANT	Anaerobic Tank	DSD
ASPS	ASPS	Activated Sludge Pumping Station	DSD
AXT	AXT	Anoxic Tank	DSD
BB	BB	Barrack/ Bungalow	WSD
BD	BD	Building	WSD
BG	BG	Bridge	WSD
BOC	BOC	Box Culvert	DSD
BRC	BRC	Bioreactor	DSD
CAP	CAP	Car Park	DSD
CEPTW	CEPT	Chemical Enhanced Primary Treatment Works	DSD
CHL	CHL	Channel	DSD
CL	CL	Clarifier	WSD
N/A	CLS	Collection Site	This Study
CH	CMH	Chemical House	WSD
CS	CS	Chlorination Station	WSD
CSF	CSF	Coarse Screen Facility	DSD
CWS	CWS	Chemical Waste Store	DSD
DF	DF	DAF	WSD
DG	DG	Dangerous Goods Store	WSD
DM	DM	Dam	WSD
DQ	DQ	Staff Quarters	WSD
DS	DS	Desalination Plant	WSD
DTR	DTR	Detritor	DSD
DUN	DUN	Drainage Tunnel	DSD
DWFI	DWFI	Dry Weather Flow Interceptor	DSD
EC	EC	Customer Enquiry Centre	WSD
EPS	EPS	Effluent Pumping Station	DSD
N/A	ERS	Egretary Site	This Study
ESP	ESP	Engineering Survey Products	DSD
N/A	FB	Footbridge	This Study
N/A	FP	Footpath	This Study
FR	FR	Filter	WSD
FSF	FSF	Fine Screen Facility	DSD
FST	FST	Final Sedimentation Tank	DSD

Known Codes	Revamped Location ID	Definition	Currently Used By
FWPSAB	FWAB	Fresh Water Pumping Station - Annex Building	WSD
FWPSHECB	FWHB	Fresh Water Pumping Station - HEC Building	WSD
FWPH	FWPH	Fresh Water Pump House	WSD
FWPSPH	FWPH	Fresh Water Pumping Station - Pump Hall	WSD
FWPS	FWPS	Fresh Water Pumping Station	WSD
FWSR	FWSR	Fresh Water Service Reservoir	WSD
FWWT	FWWT	Fresh Water Water Tank	WSD
GP	GP	Grey Water Treatment Plant	WSD
GTF	GTF	Grit Trap Facility	DSD
IPS	IPS	Inlet Pumping Station	DSD
LB	LB	Laboratory	WSD
LC	LC	Logistic Centre	WSD
MAS	MAS	Maintenance Access	DSD
MASTW	MAST	Major Secondary Treatment Works	DSD
N/A	MB	Management Office Building	This Study
MBBR	MBBR	Moving Bed Biofilm Reactor	DSD
MISTW	MIST	Minor Secondary Treatment Works	DSD
N/A	MK	Market	This Study
ML	ML	Mainlaying	WSD
NUL	NUL	Nullah	DSD
OF	OF	Office	WSD
N/A	PG	Playground	This Study
PPB	PPB	Pipe Bridge	DSD
PST	PST	Primary Sedimentation Tank	DSD
PSTW	PSTW	Preliminary / Screening Treatment Works	DSD
PTW	PTW	Primary Treatment Works	DSD
PUH	PUH	Pump House	DSD
N/A	RCP	Refuse Collection Point	This Study
N/A	RD	Road	This Study
RH	RH	Recorder House	WSD
RM	RM	Rising Main	DSD
ROF	ROF	Reverse Osmosis Facility	DSD
RP	RP	Water Reclamation Plant	WSD
RS	RS	Reservoir	WSD
RWPH	RWPH	Raw Water Pump House	WSD
RWPS	RWPS	Raw Water Pumping Station	WSD
RWSR	RWSR	Raw Water Service Reservoir	WSD

Known Codes	Revamped Location ID	Definition	Currently Used By
RWWT	RWWT	Raw Water Water Tank	WSD
SAA	SAA	Storage Area	DSD
N/A	SB	Subway	This Study
SBO	SBO	Submarine Outfall	DSD
SCT	SCT	Sludge Consolidation Tank	DSD
SDH	SDH	Sludge Dewatering House	DSD
SDR	SDR	Sludge Digester	DSD
ST	SDT	Sedimentation Tank	WSD
SL	SL	Sludge Thickening Tank	WSD
SLPS	SLPS	Sludge Pumping Station	DSD
SmPS	SmPS	Stormwater Pumping Station	DSD
SP	SP	Spillway	WSD
N/A	SPS	Sewage Pumping Station	DSD
SPV	SPV	Solar PV Farm	DSD
SST	SST	Secondary Sedimentation Tank	DSD
STH	STH	Sludge Thickening House	DSD
STT	STT	Storage Tank	DSD
SUN	SUN	Sewage Tunnel	DSD
N/A	SV	Service Block	This Study
SWPSAB	SWAB	Salt Water Pumping Station - Annex Building	WSD
SWPSHECB	SWHB	Salt Water Pumping Station - HEC Building	WSD
SWPH	SWPH	Salt Water Pump House	WSD
SWPSPH	SWPH	Salt Water Pumping Station - Pump Hall	WSD
SWPS	SWPS	Salt Water Pumping Station	WSD
SWSR	SWSR	Salt Water Service Reservoir	WSD
SWSR	SWSR	Salt Water Service Reservoir	WSD
SWWT	SWWT	Salt Water Water Tank	WSD
TA	TA	Tunnel Alignment	WSD
TER	TER	Terrain	DSD
TFR	TFR	Trickling Filter	DSD
N/A	TL	Toilet	This Study
TMR	TMR	Transformer Room	DSD
TS	TNS	Tunnel Shaft	WSD
TP	TP	Tunnel Portal	WSD
TT	TT	Tunnel Shaft Tower	WSD
TTW	TTW	Tertiary Treatment Works	DSD
TUN	TUN	Tunnel	WSD
TW	TW	Treatment Works	WSD
TX	TX	Transformer Room	WSD

Known Codes	Revamped Location ID	Definition	Currently Used By
N/A	UP	Underpass	This Study
UUS	UUS	Utilities	DSD
UVF	UVF	UV disinfection facility	DSD
N/A	VC	Visitor Centre	This Study
-	WC	Walkway Cover	This Study
WRPH	WRPH	Recycled Water Pump House	WSD
WRPS	WRPS	Recycled Water Pumping Station	WSD
WRS	WRS	Water Rehabilitation System	DSD
WRSR	WRSR	Recycled Water Service Reservoir	WSD
WRWT	WRWT	Recycled Water Water Tank	WSD
WS	WS	Water Selling Kiosk	WSD
WSH	WSH	Water Sampling House	DSD
WTW	WTW	Water Treatment Works	WSD
-	XX	Non-specific location	ISO UK Annex
-	ZZ	Multiple locations for combined model	ISO UK Annex

Table App X-3 Abbreviation Codes for Field 4.2 – Sub-location

Sorted by Revamped Location ID

Known Codes	Revamped Location ID	Definition	Currently Used By
AB	AB	Administration Building	WSD
N/A	AC	Ancillary Block	This Study
BB	BB	Barrack/ Bungalow	WSD
BD	BD	Building	WSD
BG	BG	Bridge	WSD
CL	CL	Clarifier	WSD
CS	CS	Chlorination Station	WSD
DF	DF	DAF	WSD
DG	DG	Dangerous Goods Store	WSD
DM	DM	Dam	WSD
DQ	DQ	Staff Quarters	WSD
DS	DS	Desalination Plant	WSD
E	E	East Wing	EMSD
EC	EC	Customer Enquiry Centre	WSD
FR	FR	Filter	WSD
GP	GP	Grey Water Treatment Plant	WSD
B2	K1	Block 1	EMSD
B1	K2	Block 2	EMSD
LB	LB	Laboratory	WSD
LC	LC	Logistic Centre	WSD
N/A	MB	Management Office Building	This Study
N/A	MK	Market	This Study
ML	ML	Mainlaying	WSD
N	N	North Wing	EMSD
OF	OF	Office	WSD
N/A	PG	Playground	This Study
RH	RH	Recorder House	WSD
RM	RM	Rising Main	DSD
RP	RP	Water Reclamation Plant	WSD
RS	RS	Reservoir	WSD
S	S	South Wing	EMSD
SL	SL	Sludge Thickening Tank	WSD
SP	SP	Spillway	WSD
N/A	SV	Service Block	This Study
T1	T1	Tower 1	EMSD
T2	T2	Tower 2	EMSD
TA	TA	Tunnel Alignment	WSD
N/A	TL	Toilet	This Study

Known Codes	Revamped Location ID	Definition	Currently Used By
TP	TP	Tunnel Portal	WSD
TT	TT	Tunnel Shaft Tower	WSD
TW	TW	Treatment Works	WSD
TX	TX	Transformer Room	WSD
N/A	VC	Visitor Centre	This Study
W	W	West Wing	EMSD
WS	WS	Water Selling Kiosk	WSD
-	XX	Non-specific location	ISO UK Annex
-	ZZ	Multiple locations for combined model	ISO UK Annex

Table App X-4 Abbreviation Codes for Field 4.2 – Sub-location (Levels)

Sorted by Level Height

Known Codes	Revamped Codes	Definition	Currently Used By
B2	B2	Basement Level 2	ISO UK Annex, ArchSD, DSD
B1	B1	Basement Level 1	ISO UK Annex, ArchSD, DSD
LG	LG	Lower Ground Floor	ArchSD
GF	GF	Ground Floor	ArchSD
UG	UG	Upper Ground Floor	ArchSD
ESP	ES	Reference level from engineering survey	DSD
01	01	Level 01	ISO UK Annex
02	02	Level 02	ISO UK Annex
...	...	2-digital level number	ISO UK Annex
99	99	Level 99	ISO UK Annex
MF	MF	Mezzanine Floor	ArchSD
M1	M1	Mezzanine above level 01	ISO UK Annex
M2	M2	Mezzanine Above Level 02	ISO UK Annex
PL	PL	Podium Level	ArchSD
RF	RF	Roof	ArchSD, DSD
UR	UR	Upper Roof	ArchSD
WB	WB	Whole Building	DSD
AL	AL	All levels (of a specific building zone)	ArchSD

Table App X-5 Abbreviation Codes for Field 5.1 – Discipline

Sorted by Codes

Codes	Definition	Currently Used By	Underground Utilities (UU) / Above-grade (AG)
AR	Architectural	CIC, DSD	AG
BS	Building Services	ArchSD, DSD	AG
CD	Chilled Water Distribution	None	UU
EL	Electrical	DSD	AG
FO	Sewerage	None	UU
FS	Fire Services	CIC	AG
FW	Fresh Water System	WSD	UU
GS	Gas Supply ¹	None	UU
IR	Irrigation	None	UU
LA	Landscape ²	CIC	AG
ME	Mechanical	DSD	AG
PS	Electrical Power Supply ³	None	UU
RD	Road	None	AG
RW	Raw Water System	WSD	UU
SD	Stormwater Drainage	None	UU
SF	Site Formation	None	AG
SL	Slope	None	AG
ST	Structural	CIC, DSD	AG
SW	Salt Water System	WSD	UU
TC	Telecommunication ⁴	None	UU
WR	Recycled Water System	WSD	UU
XX	General (non-disciplinary)	None	N/A
ZZ	Multiple disciplines for combined model	None	N/A

¹ For example, Towngas

² Landscape is a discipline when deals specifically with landscape elements such as hardscape, softscape, planting, landscape features, etc. (When Landscape is a system, it is used to define the all elements within a boundary of a country park, neighbourhood park, etc. It would contain both landscape discipline models and models of structures within these parks.)

³ For example, CLP (China Light and Power), HK Electric

⁴ For example, Smartone, HKT, HKBN, PCCW etc.

Table App X-6 Abbreviation Codes for Field 5.2 – Sub-discipline
Sorted by Revamped Discipline and then Sub-discipline Code

Discipline		Sub-discipline Known Codes		Definition	Currently Used By
Code	Definition	Original	Revamped		
AR	Architectural	N/A	CW	Curtain Wall	CIC
		N/A	CL	Ceiling	CIC
		EW	EW	External Work	ArchSD
		N/A	FE	Furniture and Fixed Equipment	CIC
		N/A	FL	Flooring	CIC
BS	Building Services	AUS	AU	Audio Electronics System	EMSD
		AV	AV	Audio Video System	EMSD
		BA	BA	Burglar Alarm	EMSD
		BLR	BL	Boiler System	EMSD
		BR	BR	Broadcast Reception	EMSD
		CCTV	CC	Closed Circuit TV System	EMSD
		DR	DR	Drainage	EMSD
		EMG	EG	Emergency Generator	EMSD
		EL	EL	Electrical Distribution	EMSD
		FP	FP	Filtration Plant	EMSD
		HVAC	HA	Heating, ventilation, and air conditioning	EMSD
		LDS	LD	Water Leakage Detection System	EMSD
		LAE	LE	Lift & Escalator	EMSD
		LTG	LG	Lighting	EMSD
		LVS	LV	LV Switchboard	EMSD
		MLS	ML	Microwave Link System	EMSD
		PL	PL	Plumbing	EMSD
		PTS	PT	Pneumatic Tube Transport	EMSD
		RNS	RN	Radar and Navigation System	EMSD
		RS	RS	Radio System	EMSD
		TDS	TD	Timing & Display System	EMSD
		UPS	UP	Uninterrupted Power Supply	EMSD
CD	Chilled Water Distribution	N/A	N/A	N/A	N/A
EL	Electrical	N/A	N/A	N/A	DSD

Discipline		Sub-discipline Known Codes		Definition	Currently Used By
Code	Definition	Original	Revamped		
FO	Sewerage	N/A	N/A	N/A	N/A
FS	Fire Services	N/A	N/A	N/A	CIC
FW	Fresh Water System	N/A	PP	Pipe Support	WSD
		N/A	TB	Thrust Block	WSD
		N/A	WM	Water Mains	WSD
GS	Gas Supply	N/A	N/A	N/A	N/A
IR	Irrigation	N/A	N/A	N/A	N/A
LA	Landscape	N/A	CT	Compensatory Tree	N/A
		N/A	GC	Groundcover	N/A
		N/A	RT	Retained Tree	N/A
		N/A	SH	Shrubs	N/A
		N/A	TR	Transplanted Tree	N/A
		N/A	VE	Vegetative Slope	N/A
ME	Mechanical	N/A	N/A	N/A	DSD
PS	Electrical Power Supply	N/A	N/A	N/A	N/A
RD	Road	CYT	CT	Cycle Track	HyD
		DR	DR	Road Drainage	HyD
		LG	LG	Road Lighting	HyD
		N/A	NB	Noise Barrier	N/A
		N/A	PV	Pavement	N/A
		N/A	RF	Road Furniture	N/A
		TA	TA	Traffic Aids	HyD
RW	Raw Water System	N/A	PP	Pipe Support	WSD
		N/A	TB	Thrust Block	WSD
		N/A	WM	Water Mains	WSD
SD	Stormwater Drainage	N/A	SB	Sub-soil Drain	N/A
		SD	SD	Surface Drainage	CEDD GEO, WSD
SF	Site Formation	N/A	GI	Ground Investigation	ArchSD
SL	Slope	BO	BO	Rock Bolt	CEDD GEO
		N/A	BP	Bored Pile Wall	N/A
		BU	BU	Buttress	CEDD GEO
		BW	BW	Baffle Wall	CEDD GEO
		CB	CB	Concrete Berm	CEDD GEO
		DSM	DS	Ground Surface	CEDD GEO
		DW	DW	Dowel	CEDD GEO
		FB	FB	Flexible Barrier	CEDD GEO
		GI	GI	Geological	CEDD GEO

Discipline		Sub-discipline Known Codes		Definition	Currently Used By
Code	Definition	Original	Revamped		
		GS	GS	Grillage System	CEDD GEO
		GW	GW	Gabion Wall	CEDD GEO
		MA	MA	Maintenance Access	CEDD GEO
		MW	MW	Masonry Wall	CEDD GEO
		N/A	PG	Planting	N/A
		PW	PW	Planter Wall	CEDD GEO
		RB	RB	Rigid Barrier	CEDD GEO
		RW	RW	Retaining Wall	CEDD GEO
		SD	SD	Surface Drainage	CEDD GEO, WSD
		SN	SN	Soil Nail	CEDD GEO
ST	Structural	N/A	BG	Bridge	WSD
		N/A	DM	Dam	WSD
		N/A	FD	Foundation	CEDD GEO
		LE	LE	Structural Frame for Lift Tower and Escalator	N/A
		N/A	NB	Noise Barrier	N/A
		N/A	PC	Pile Cap	ArchSD
		N/A	PW	Planter Wall (within building structure)	ArchSD
		N/A	RC	Reinforced Concrete	CIC, WSD
		N/A	RW	Retaining Structure	ArchSD
		SC	SC	Staircase	N/A
		N/A	SS	Structural Steel	WSD
		N/A	SU	Superstructure	WSD
SW	Salt Water System	N/A	PP	Pipe Support	WSD
		N/A	TB	Thrust Block	WSD
		N/A	WM	Water Mains	WSD
TC	Telecommunication	N/A	N/A	N/A	N/A
WR	Recycled Water System	N/A	PP	Pipe Support	WSD
		N/A	TB	Thrust Block	WSD
		N/A	WM	Water Mains	WSD
XX	General (non-disciplinary)	N/A	N/A	N/A	N/A
ZZ	Multiple disciplines for combined model	N/A	N/A	N/A	N/A

Table App X-7 Abbreviation Codes for Field 6.1 – Type

Sorted by Codes

Codes	Definition	Currently Used By
AF	Animation File (of a model)	ISO UK Annex
BQ	Bill of Quantities	ISO UK Annex
CA	Calculations	ISO UK Annex
CM	Combined Model (Combined Multidiscipline Model)	ISO UK Annex
CO	Correspondence	ISO UK Annex
CP	Cost Plan	ISO UK Annex
CR	Clash Rendition	ISO UK Annex
DB	Database	ISO UK Annex
DD	Drawing – Detail	Modified from CSWP View Field (D)
DE	Drawing – Elevation	Modified from CSWP View Field (E)
DI	Drawing – Isometric	Modified from CSWP View Field (I)
DP	Drawing – Plan	Modified from CSWP View Field (P)
DR	2D Drawing Rendition (General)	ISO UK Annex
DS	Drawing – Section	Modified from CSWP View Field (S)
FN	File note	ISO UK Annex
HS	Health & Safety	ISO UK Annex
IE	Information Exchange File	ISO UK Annex
L	Link File	DSD, HyD
M2	2D Model File	ISO UK Annex
M3	3D Model File	ISO UK Annex
MI	Minutes / Action Notes	ISO UK Annex
MR	Model Rendition File (for Example Thermal Analysis)	ISO UK Annex
MS	Method Statement	ISO UK Annex
PP	Presentation	ISO UK Annex
PR	Programme	ISO UK Annex
RD	Room data sheet	ISO UK Annex
RI	Request for information	ISO UK Annex
RP	Report	ISO UK Annex
SA	Schedule of accommodation	ISO UK Annex
SC	SCCU Submission	ArchSD
SD	Dangerous Goods Submission	ArchSD
SF	FSD Submission	ArchSD
SH	Schedule	ISO UK Annex
SI	Site Instruction Drawing	ArchSD
SK	Sketch	ISO UK Annex
SN	Snagging list	ISO UK Annex

Codes	Definition	Currently Used By
SO	Design Options	ArchSD
SP	Specification	ISO UK Annex
ST	Tender Drawing	ArchSD
SU	Survey	ISO UK Annex
VS	Visualisation of a model	ISO UK Annex

Table App X-8 Abbreviation Codes for Field 6.2 – Characteristic

Sorted by Codes

Codes	Definition	Currently Used By
A	As-built	ArchSD, CSWP
D	Demolition	ArchSD
E	Existing, to remain	ArchSD, CSWP, DSD
M	Maintenance or record	ArchSD, CSWP, DSD
N	New Works/ Proposed Works	ArchSD, CSWP, DSD
T	Temporary Works	ArchSD, CSWP, DSD
W	All Works (combination of above works)	ArchSD, CSWP