

							Pesno	nsible		Add	itional	Inforomation		Sut	omittal 1	vne			Sched	ule Type	a .	Pick	« List
Parameter Name	Parameter Association	Asset Type	Description	Туре	Max Characters or Format for Type		Construction	TAB or Cx	Owner (PSU)	Notes	Required in Model	COBie Tab	BIM PxP (BxP)	Space Report	Equipment Report	Network	Color Schema	GSF/NSF/ASF	Project Data	Room Data	Equipment	Pick List	Pick List Column
Accessible	Room	Space Management	design/construction	YesNo	3	R	٧			2	YES	TBD	х	х						х			
Actuated	Object	Operations	Has an actuated controller. (e.g. Manual control value would be NO, Actuated control valve would be YES)	YesNo	3	R	V	٧		2		TBD	х		х								
Alternative_Room_Name	Room	Space Management	Typically NOT used, however if the signage room name is different than the project this is where you track that information	Text	200	R	V	٧	V	12	YES	TBD	х	х	х					х	х		
Alternative_Room_Number	Room	Space Management	Typically NOT used, however if the signage room name is different than the project this is where you track that information	Text	200	R	٧	٧	٧	12	YES	TBD	х	х	х					х	х		
Amperage	Object	Operations	Total connected current (A) for the piece of equipment	Text	Revit Default	R	٧			2		TBD	Х		Х						Х		
Amperage_Motor	Object	Operations	If the motor is not a separate object, motor attributes should be included with the parent object Square feet automatically calculated	Numeric	Integer	R	V			2	Yes	TBD	X		х						х		
Area	Room	Space Management	from Revit, in a Room this would be	Numeric	0.xx	R	V	٧		2	YES	TBD	х	х				Т		х			
Area_Services	Project	Space Management	PSU OPP service area; see picklist "Service Area" for allowable entries; See picklist 'Service Area' and 'Value' column for the allowable entries	Text	15	R			Р			TBD	х	х	х					х	х	Service Area	Value
ASF_Type	Room	Space Management	Assignable Square Footage used for calculation/grouping of NSF; See picklist 'Room Type' and 'Alternative Value' column for the allowable entries	Text	256	R	V		Р	12	YES	TBD	х	х			х	т		х		Room Type	Alternative Value
Assets	Room/Space	Operations	This is the total number of assets associated with the space that require maintenance over time.	Numeric	Integer	R	٧	V		2		TBD	х	х					т	х			
Associated_Asset	Object	Operations	Parent object using the "Equipment_ID" (e.g. a Motor inside	Text	Revit Default	R	٧			2	YES	TBD	х		х								
Ballast_Details	Schedule Only	Operations	of AHU-01 would list "AHU-01" here) (Calculated) Automatically generated within a schedule as a combined parameter:	Text	Revit Default	R	V			2		TBD	х		х								
Barcode	Object	Operations	Maximo barcode applied to the piece of equipment	Text	Revit Default		R	٧			YES	TBD	Х		Х								
BAS_Control_ID	Object	Operations	The building automation system / controls ID associated with the piece of equipment. Should match the controls plan documents	Text	Revit Default	R	٧	٧		2	YES	TBD	х		х						х		
Budget_Code	Room	Space Management	This comes from the Facility	Text	256	R	V		Р	12		TBD	х	х			х			х			
Building Name	Project	Space Management		Text	100	R	٧	٧	Р	12	YES	TBD	х	х	х	х		х	х	х	х		
Building_Count	Project	Space Management	PARAMETER Indicates whether or not the building should show in the PSU map; 0=No, 1=Yes (typically yes)	Numeric	1	R			V	1	YES	TBD	х	х	х				х	х	х		
Building_Function	Project	Space Management	Primary Building Category; See picklist 'Room Function' and 'Value	Text	256	R			Р	1		TBD	х	х	х				х	х	х	Room Function	Value Description
Building_Function_Category	Project	Space Management	Primary Building Category; See picklist 'Room Function' and 'Value'	Text	2	R			Р	1	YES	TBD	х	х	х				х	х	х	Room Function	Value
Building_Lease_Code	Project	Space	column for the allowable entries  Predominate lease code; Typically this is "Own"	Text	??	R			Р	1	YES	TBD	Х	Х	Х				Х	Х	Х		
Building_Number	Project	Management Space Management	Building number	Text	0000000	R		٧	Р	1	YES	TBD	Х	Х	Х	Х		Т	Х	Х			
Campus	Project	Space Management		Text	2	R	V	٧	٧	2	YES	TBD	х	х	х			х	х	х		Campus Code	Value
Capacity	Object	Operations	for the allowable entries  Size, volume, or capacity of an item (e.g. 100 tons for a chiller). This is always paired with 'Capacity_UOM'.	Numeric	0	R	V	٧		2		TBD	х		х						х		
Capacity_UOM	Object	Operations	Unit of measure (UOM) for the 'Capacity' attribute (e.g. BTU/HR,	Text	256	R	٧	٧		2		TBD	х		х						х		
сст	Object	Operations	Tons, Gallons, etc.)  Correlated Color Temperature (CCT)	Text	256	R	٧			2	YES	TBD	Х		Х						Х		
СҒМ	Object	Operations	Cubic feet per minute	Numeric	Integer	R	٧			2		TBD	х		Х						Х		
Circuit_Number	Object	Operations	Circuit within the panel to which the piece of equipment is connected	Text	Revit Default	R	٧			2		TBD	Х		Х								
Closet_Connector	Object	ENCS	Network outlet connection type at the point of connection on the racks in the network closet; See picklist 'Network Connection' and 'Value' column for the allowable entries	Text	1	R	٧			2		TBD	х			х						Network Connection	Value
Coil_Capacity_Cooling	Object	Operations	Total cooling capacity of the asset/item (BTU/HR)	Numeric	0.x	R	V	٧		2		TBD	Х		Х						Х		
Coil_Capacity_Heating	Object	Operations	Total heating capacity of the asset/item (BTU/HR)  Type of coil in the piece of equipment; See picklist 'Coil Type'	Numeric	0.x		V	V		2		TBD	X		X						Х		
Coil_Type Coil_Type_Heating	Object Object	Operations Operations	and 'Value' column for the allowable entries	Text	256 256		V	V V		2		TBD	X		X						х	Coil Type	Value
College_Primary	Project	Space Management	Predominate college user of the building	Text	256	R			Р	1	YES	TBD	Х	Х	Х					Х	Х		
Condition	Object	Operations	This is the condition of the item. Listed in picklist as "Condition:" + the Type of asset (e.g. Condition: Roof); See picklist 'Condition' and 'Value' column for the allowable entries	Text	25	R	٧			2		TBD	х		х						х	Condition	Value
Condition_Code	Project	Space Management	This is the overall condition code for the building; Typically either "Excellent" or "Temporary" for projects at completion; See picklist 'Condition: Room' and 'Value' column	Text	25	R			Р	1		TBD	х	х								Condition: Room	Value
Controls	Object	Operations	for the allowable entries  Controls for item (e.g. lighting); See picklist 'Control' and 'Value' column	Text	Revit Default	R	V	V		2		TBD	×		х						х	Control	Value
Core	Object	Security	for the allowable entries  Door key core identifier	Text	Revit Default	R				2		TBD	X		X						X		
Count	Object	Operations	Used if listing a type of asset versus listing each individual of that type (e.g. 100 Lighting Fixture Type A's). If listing each asset individually it	Numeric			V	V		2		TBD	X		X						^		
Decommissioned	Object	Operations	would be 1 Items that are decommissioned should be listed indicating that they are to be removed / are removed. (e.g. Rooms or assets in a renovation	YesNo	3	R	V			2		TBD	х		х						х		
Department	Room	Space Management	(optional)   REVIT DEFAULT	Text	Revit Default	R					YES	TBD	х	х			х			х			
Description	Object	Operations	PARAMETER Free form text for additional descriptive information related to the asset   REVIT DEFAULT PARAMETER	Text	Revit Default	R	V			2		TBD	х		х						х		
Dimming	Object	Operations	PARAMETER  Luminaire dimming type	Text	256	R	V			2		TBD	х		х						Х		
Division_Code	Room	Space Management	See picklist 'Division Code' and 'Value' column for the allowable	Text	256	R			Р	12	YES	TBD	х	х						х		Division Code	Value
Donor	Room/Space	Space	This is the name if it has a special	text	256	R			Р			TBD	×	х	х				х	х	х		
Drawing_ID	Object	Management Operations	donor being recognized  Drawing set identification where the item is identified (e.g. M101, E101)	Text	Revit Default	R	V			2		TBD	х		х								
Elevator_Number	Object	Operations	PSU elevator number; also required on the permitting documentation	Text	25	R	V		Р	3	Yes	TBD	х		х						х		
Emergency	Object	Operations	used with L&I  Item is on emergency power or part of the emergency egress planning; See picklist 'Yes No' and 'Value'	YesNo	3	R	V	V		2		TBD	х		х							Yes No	Value
EnthalpyWheel	Object	Operations	column for the allowable entries  Enthalpy wheel included	YesNo	3	R	V	V		2		TBD	Х		Х						Х		



						R	lesp <u>o</u>	nsible	Ad	lditi <u>on</u>	al Inforomation		Sub	mittal T	уре			Schedu	ıle Type		Pick	List
					Max Characters		<u>e</u>			Model		(BxP)		Report		ema	ASF					
Parameter Name	Parameter Association	Asset Type	Description	Туре	or Format for Type	Design	Construct	TAB or CX	Notes	Reauired in	COBie Tab	BIM PxP (	Space Report	Equipment l	Network	Color Sch	GSF/NSF/ASI	Project Data	Room Data	Equipment	Pick List	Pick List Column
Equipment_ID	Object	Operations	ID used for the piece of equipment instance or type. (e.g. AHU-01, Fixture A, etc.) Often is the same as the "Mark" or "Type Mark" field. Used as the Key for associating documents.	Text	Revit Default	R	٧	٧	2	YE	S TBD	x		x								
EWT	Object	Operations	Entering water temperature (°F)	Numeric	0.0	R	٧	٧	2		TBD	х		х						х		
Faceplate_Connector	Object	ENCS	Network connection type at the point of connection in the outlet box typically in a room or cubicle; See picklist 'Network Connection' and 'Value' column for the allowable entries	Text	1	R	٧		2		TBD	х			х						Network Connection	Value
Filter_MERV	Object	Operations	ASHE Std 52.5 Minimum efficiency reporting value (MERV) rating for	Text	256	R	٧	٧	2		TBD	х		Х						Х		
Filter_MERV_Pre	Object	Operations	final filter  ASHE Std 52.5 Minimum efficiency reporting value (MERV) rating for the	Text	256	R	٧	V	2		TBD	х		х						х		
Filter_Quantity	Object	Operations	pre-filter Number of filters by size (e.g. If only one size of filter enter only quantity; if multiple filter sizes then enter quantity by size 20x24 @ 3, 30x36 @ 2) for the final filter	Text	256	R	V	V	2		TBD	x		х								
Filter_Quantity_Pre	Object	Operations	Number of filters by size (e.g. If only one size of filter enter only quantity; if	Text	256	R	٧	V	2		TBD	х		х								
Filter_Size	Object	Operations	Filter size(s) for any filters in the piece of the equipment for the final filter	Text	256	R	٧	٧	2	YE	S TBD	х		х								
Filter_Size_Pre	Object	Operations	Filter size(s) for any filters in the piece of the equipment for the pre-	Text	256	R	٧	٧	2	YE	S TBD	х		х								
Finish_Base	Room	Space Management	filter  Finish material for the room base	Text	Revit Default	R	٧		2	YE	S TBD	х	х	х					х			
Finish_Ceiling	Room	Space Management	Finish material for the room ceiling  Finish material for the room floor;	Text	Revit Default	R	٧		2	YE	S TBD	Х	Х	Х					Х			
Finish_Floor Finish_Wall	Room	Space Management Space	See picklist 'Floor Finish' and 'Value	Text	Revit Default	R R			2	YE		X	X	x		х			x		Floor Finish	Value Abbreviation
Fire_Rating	Object	Management Operations	Fire rating hours (e.g. Door with a 1 hour fire rating)	Numeric	Integer	R			2	16	TBD	X	^	X					^			
Floor	Room	Space Management	This is the level or floor number without any descriptive text such as	Text	2	R	٧	١	(1) (2)	) YE	S TBD	х	х	х				х	х	х		
FlowRate	Object	Operations	"Level" or "Floor" Fluid flow set point (gallons per minute GPM)	Numeric	0.x	R	٧		2		TBD	х		х								
FlowRate_Steam	Object	Operations	Steam flow rate in thousand BTU's per hour (MBH)	Numeric	0.x	R	٧		2		TBD	х		х						Х		
Fluid_ColdSide	Object	Operations	Fluid used on the cold side of a heat exchange; See picklist 'Fluid' and 'Value' column for the allowable entries  Fluid used on the hot side of heat	Text	256	R	٧	V	2		TBD	х		х						х	Fluid	Value
Fluid_HotSide	Object	Operations	exchange; See picklist 'Fluid' and 'Value' column for the allowable entries	Text	256	R	V		2		TBD	Х		Х						Х	Fluid	Value
GSF	Object Area	Operations Space	Frame number  (Calculated) Gross square feet (GSF)	Text	Revit Default 0.00	R	R V	V	2	YE	TBD S TBD	X	Х	Х			Т		Х			
Handicap	Project	Management  Space Management	Primary Building Category. See picklist for "Handicap" value field for allowable entries; See picklist 'Handicap' and 'Value' column for the allowable entries	Numeric	Integer	R		١			TBD	х					х				Handicap	Value
Heat_Code	Project	Space Management	See picklist "Heat Code" for allowable entries; See picklist 'Heat	Text	20	R		F	,		TBD	х	х	х				х	х	х	Heat Code	Value
HeatPipe	Object	Operations	Heat pipe included; See picklist 'Yes No' and 'Value' column for the allowable entries	YesNo	3	R	٧	V	2		TBD	х		х						х	Yes No	Value
Horsepower	Object	Operations	Horsepower (HP)	Numeric	0.x	R	٧		2	YE	S TBD	х		х						Х		
Horsepower_Motor	Object	Operations	If the motor is not a separate object, motor attributes should be included with the parent object	Numeric	0.x	R	٧		2	YE	S TBD	х		х						х		
HX_DeltaT	Object	Operations	Hot side of a heat exchanger temperature drop from supply (inlet) to return (outlet)	Numeric	0	R	٧	٧	2		TBD	х		х						х		
HX_EWT	Object	Operations	Entering water temperature. Hot side of a heat exchanger temperature on	Numeric	0	R	٧	V	2		TBD	х		х						х		
HX_LWT	Object	Operations	supply (inlet) side  Leaving water temperature. Hot side of a heat exchanger temperature on return (outlet) side	Numeric	0	R	V	V	2		TBD	х		х						х		
HX_Steam_EnteringPressure	Object	Operations	Entering steam pressure of a hot side of a heat exchanger using steam	Numeric	0	R	٧	V	2		TBD	х		х						Х		
Impeller_Diameter	Object	Operations	Pump impeller diameter (inches)	Numeric	0.x	R			2		TBD	X		X								
Inlet_Size Installation_Date	Object	Operations Operations	Inlet diameter size (inches)  Date of installation	Numeric	0.x YYYYMMDD	R	V R	V	2		TBD	X		X						Х		
Interstitial	Room	Space Management	If the space is classified as a interstitial space then "Yes"; See	YesNo	3	R		,	/ <b>①</b>	YE		х	х	x					х	х	Yes No	Value
Jack_Number	Object	ENCS	for the allowable entries (Calculated) Concatenated field using "Building Number" + "." + "Outlet" + "." + "Media_Type" + "." + "Network Room" + "." + "Port_Number"; See picklist 'Media Type' and 'Value Abbreviation'	Text	1	R	٧		2		TBD	х			Х						Media Type	Value Abbreviation
Lamp	Object	Operations	column for the allowable entries  Lamp description (e.g. T8); See picklist 'Lamp' and 'Value' column for the allowable entries  (Calculated) Automatically generated	Text	256	R	V		2	YE	S TBD	х		х						х	Lamp	Value
Lamp_Details	Schedule Only	Operations	(Calculated) Automatically generated within a schedule as a combined parameter:	Text	Revit Default	R	V		2		TBD	Х		Х								
Lamp_Life	Object	Operations	Expected hours of life for the lamp. For LED use lamp percentage of full and hours (e.g. "L80: 80,000")	Text	256	R	٧	٧	2		TBD	х		х						х		
Lamp_Quantity	Object	•	Number of lamps in the luminaire	Numeric	Integer	R			2		TBD	Х		Х						Х		
Lamp_Style  Landings	Object Object	Operations Operations	Luminaire lamp style  Total number of landings served by the item (e.g. Elevator serves 5 landings in a 4 story + basement	Text	256 Integer	R R			2		TBD	X		x						X		
Lease_Code	Room	Space	building)  This is typically "Own"	Text	256	R		F	) ①	YE	S TBD	Х	х						Х			
Level	System	Management Space Management	This is level or floor within the building   REVIT DEFAULT	Text	Revit Default	R	٧			) YE		X	х	х				Х	X	Х		
Lifecycle_Phase	Object	Operations		Text	256	R	R	R	2		TBD	Х		х							Lifecycle Phase	Value
Load May LIOM	Object	Operations	'Value' column for the allowable entries  Unit of measure (UOM) for the 'Load'	Taxt	22	D	V	V	2		TBD	Х		х						Х		
Load_Max_UOM	Object	Operations	attribute (e.g. lbs, tons, psi, etc.)  Maximum load. Must specify the unit	Text	??			٧						X						X		
Location	Object Schedule Only	Operations Operations	of measure (UOM) in "Load_UOM"  (Calculated) Automatically generated within a schedule as a combined parameter: "Building Number" field +	Numeric	0.x 0000000-0xxx	R R		١	(2) (1) (2)	)	TBD	x	х	x					х	X		
Lumens	Object	Operations	"-" + "Number" field  Fixture lumens	Numeric	Integer	R	V		2	YE	S TBD	Х		Х						Х		
LWT	Object	•	Leaving water temperature (°F)	Numeric	0.x		V	٧	2		TBD	X		X						X		
Maintenance_Required	Object	Operations	The item requires some type of maintenance. Indicates a requirement for OM Manual(s); See	YesNo	3	R	٧	V	2	YE	S TBD	х		х							Yes No	Value
maintenance_itequireu			picklist 'Yes No' and 'Value' column for the allowable entries																			



Manufacturer_Motor Ob  Mark Ob  Mark Type Ob  Material_of_Construction Ob  Maximo_Name Room  Media_Type Ob  Model Ob  Model_Motor Ob  Name Room  National_Board_Number Ob	bject Oper bject Oper bject Oper bject Oper h/Space Sp Mana;	erations erations	Description  If the motor is not a separate object, motor attributes should be included with the parent object Asset type mark used to identify an instance of the object (e.g. AHU-01)   REVIT DEFAULT PARAMETER	Type Text	Max Characters or Format for Type		Construction	TAB or Cx alquation of the second sec		ditional I Wodel u	nforomation  COBie Tab	P (BxP)	Ice Report	nt Report	ype Network	Schema	GS F/NSF/ASF	Data	n Data Data	Equipment	Pick	Pick List Column
Mark     Ob       Mark Type     Ob       Material_of_Construction     Ob       Maximo_Name     Room       Media_Type     Ob       Model     Ob       Model_Motor     Ob       Name     Room       National_Board_Number     Ob	bject Oper bject Oper bject Oper bject Oper	erations erations erations	motor attributes should be included with the parent object Asset type mark used to identify an instance of the object (e.g. AHU-01)	Text			ŏ '	A N	ž	Required	CODIC TUB	BIM PxP	Space	Equipment	Net	Color	GSF/N	Project	Room	Equip		
Mark Type     Ob       Material_of_Construction     Ob       Maximo_Name     Room       Media_Type     Ob       Model     Ob       Model_Motor     Ob       Name     Room       National_Board_Number     Ob	bject Oper bject Oper n/Space Sp Manage	erations erations	Asset type mark used to identify an instance of the object (e.g. AHU-01)		Revit Default	R	V		2		TBD	х		х						х		
Mark Type     Ob       Material_of_Construction     Ob       Maximo_Name     Room       Media_Type     Ob       Model     Ob       Model_Motor     Ob       Name     Room       National_Board_Number     Ob	bject Oper bject Oper n/Space Sp Manage	erations		Text	256	R	V		2	YES	TBD	х		х						х		
Material_of_Construction  Maximo_Name Room  Media_Type Ob  Model Ob  Model_Motor Ob  Name Room  National_Board_Number Ob	bject Oper n/Space Sp Mana		Asset type mark used to identify the																			
Maximo_Name Room  Media_Type Ob  Model Ob  Model_Motor Ob  Name Room  National_Board_Number Ob	n/Space Sp Manag		object (e.g. lamp Type A)   REVIT DEFAULT PARAMETER Material of construction for the asset (e.g. Copper). Picklist as "Material of	Text	??	R	V	V		Yes	TBD	X		Х						Х		
Media_Type Ob  Model Ob  Model_Motor Ob  Name Room  National_Board_Number Ob	Mana		Construction:" + the Type of asset (e.g. Material of Construction: Roof); See picklist 'Material of Construction' and 'Value' column for the allowable entries	Text	250	R	V		2		TBD	х		Х						х	Material of Construction	Value
Model         Ob           Model_Motor         Ob           Name         Room           National_Board_Number         Ob		gement	Name to be used in CMMS (Maximo)	Text	35 All CAPS	R	V	V P	2		TBD	Х	Х	Х					Х	Х		
Model_Motor Ob  Name Room  National_Board_Number Ob	bject EN	NCS	Type of cable used; See picklist 'Media Type' and 'Value Abbreviation' column for the allowable entries	Text	1	R	٧		2		TBD	х			х						Media Type	Value Abbreviation
Name Room National_Board_Number Ob	bject Oper	rations	Model, Manufacturer Catalog Number, etc. of the item/asset	Text	Revit Default	R	V		2	YES	TBD	х		х								
National_Board_Number Ob	bject Oper	rations	If the motor is not a separate object, motor attributes should be included with the parent object	Text	Revit Default	R	٧		2		TBD	х		х						Х		
	n/Space Sp Mana	pace	Room name; system default field   REVIT DEFAULT PARAMETER	Text	256	R		٧	1	YES	TBD	х	Х	х	Х		Х		х	Х		
Network Room	bject Oper	rations	National board of boiler and pressure vessel number	Text	256	R	V	V	2		TBD	Х		Х						Х		
	bject EN	NCS	Network room for the building (e.g. A, B, C, etc.); See picklist 'Network Room' and 'Value Abbreviation'	Text	1	R	٧		2		TBD	х			х						Network Room	Value Abbreviation
Nominal_Voltage Ob	bject Oper	erations	column for the allowable entries  Nominal voltage associated with the	Text	Revit Default	R	V		2	YES	TBD	Х		х								
	Sn	nace	Room number using PSU's room			R		v v		YES			v		v				V			
Number Room	Mana	agement	numbering standard   REVIT DEFAULT PARAMETER Current Room capacity: Total count of seats in the space; for an office it	Text	25	K	V	v v	(I) (2)	YES	TBD	Х	Х	Х	Х				Х	Х		
<b>Occupancy</b> Ro	oom Mana	agement	would be the occupant; for classroom it would be same as student seats + instructor(s)   REVIT DEFAULT PARAMETER	Numeric	Integer	R	V		2	YES	TBD	Х	х						Х			
Official_Name Ro		agement	This is an official name given to the room (e.g. donor, in honorary, etc.)	Text	Revit Default	R		Р	1		TBD	х	х	Х					Х	х		
OM_Manual_Number Ob	bject Oper	rations	Operations and maintenance manual number associated with the item	Text	250		٧				TBD	Х		Х						Х		
OMManual_Required Ob	bject Oper	erations	Indicates whether or not the item/asset requires an operations and maintenance (OM) manual; See picklist 'Yes No' and 'Value' column for the allowable entries	YesNo	3	R	V	V	2		TBD	х		х						х	Yes No	Value
<b>Outlet</b> Ob	bject EN	NCS	Network/Communication outlet box typically in room or cubicle	Text	0000	R	٧		2	Yes	TBD	Х			х							
Ownership_Status Pro		pace agement	Identifies the ownership classification of the building/project area.; See picklist 'Ownership Status' and 'Value' column for the allowable	Text	10	R		Р			TBD	х	х	х				х	х	х	Ownership Status	Value
Panel Ob	bject Oper	rations	entries  Power panel to which the piece of equipment is connected	Text	Revit Default	R	٧		2	YES	TBD	Х		Х								
Permit_Required Ob	bject Oper	erations	Permit is required (e.g. L&I, county, local, PSU); See picklist 'Yes No' and	YesNo	3	R	V	V	2	YES	TBD	×		Х						х	Yes No	Value
			'Value' column for the allowable entries																			
			Number of phases for the asset  If the motor is not a separate object,	Text	Revit Default	R			2	YES	TBD	Х		Х								
	<u> </u>		motor attributes should be included with the parent object  Port/Jack within the outlet; PSU allows up to 6 jacks per	Numeric	Integer 0000	R R			2	YES	TBD	X		Х	х					Х		
			network/communication outlet Pressure drop in feet of water (FT																			
			H2O) in the asset (e.g. on the hot side of a heat exchanger)	Text	256		V	V	2		TBD	X		Х						Х		
		eneral	Design pressure head in feet of H20 Project Name used by contractor (designer, builder, etc.)   REVIT DEFAULT PARAMETER	Numeric	0.x  Revit Default	R R			2		TBD	x		x						x		
Project Number Ob	bject Ger	eneral	Project Number used by contractor (designer, builder, etc.)   REVIT DEFAULT PARAMETER	Text	Revit Default	R	٧		2		TBD	х		х						Х		
Project_Name Ob	bject Ger		PSU Project Name	Text	256	R	V		2		TBD	Х		х	Х					Х		
			PSU Project Number  Amount of regrigerant loaded into the	Text	000000000	R			2		TBD	Х		Х	Х					Х		
Refrigerant_Charge Ob	bject Oper	ialions	system/asset/item  Type of refrigerant used in the	Text	256		R	V			TBD	Х		Х						Х		
Refrigerant_Type Ob	bject Oper	rations	item/asset; See picklist 'Refrigerant' and 'Value' column for the allowable entries	Text	256	R	٧		2		TBD	х		х						Х	Refrigerant	Value
Room_AC Ro		pace agement	See picklist 'Room AC' and 'Value' column for the allowable entries  Typically either "Excellent" or	Text	1	R	V	V	2		TBD	х	х						х		Room AC	Value
Room_Condition Ro		agement	"Temporary" for projects at completion; See picklist 'Condition: Room' and 'Value' column for the allowable entries	Text	25	R	V	Р	12	)	TBD	Х	х						х		Condition: Room	Value
Room_Function_Code Ro		pace agement	See picklist 'Room Function' and 'Value' column for the allowable entries	Text	00	R	V	Р	2		TBD	х	х						х		Room Function	Value
Room_Function_Description Ro		pace	See picklist 'Room Function' and 'Value Description' column for the allowable entries	Text	256	R	٧	Р	2		TBD	Х	х						х		Room Function	Value Description
Room_ID Sched		pace agement	(Calculated) Automatically generated within a schedule as a combined parameter: "Building_Number" + "-" + "Floor" + "Number"	Text	0000000-0x- 0xxx	R		V	1	YES	TBD	х	х	х					х			
Room_Type_Code Ro		pace agement	See picklist 'Room Type' and 'Value' column for the allowable entries	Text	000	R	٧	Р	12	YES	TBD	Х	Х						Х		Room Type	Value
Room_Type_Description Ro		pace agement	See picklist 'Room Type' and 'Value Description' column for the allowable	Text	256	R	٧	Р	1 2	YES	TBD	х	х						х		Room Type	Value Description
RPM Ob			entries  Revolutions per minute	Numeric	Integer	R	٧		2	YES	TBD	х		Х						Х		
RPM_Motor Ob	bject Oper	rations	If the motor is not a separate object, motor attributes should be included	Numeric	Integer	R	٧		2	YES	TBD	х		х						х		
Security_Door Ob	bject Sec	ecurity	with the parent object Security control type for the door; See picklist 'Security Door' and 'Value' column for the allowable	Text	Revit Default	R	V		2		TBD	х		х						х	Security Door	Value
Security_Room Ro	oom Sed	curity	entries Security consideration type for the room; See picklist 'Security Room' and 'Value' column for the allowable	Text	Revit Default	R	V		2		TBD	х	х								Security Room	Value
Serial_Number Ob	bject Oper		entries  Serial number for the item/asset	Text	Revit Default		R			YES	TBD	Х										
SetPoint_Flow Ob	bject Oper		Fluid flow set point (gallons per minute GPM)	Numeric	0.x	R	٧	V	2		TBD	х		х								
	Sn		Temperature setpoint (°F)  This is an abbreviated name for the	Numeric	0.x	R		V	2		TBD	Х		Х								
	oject Mana	agement	This is an abbreviated name for the building  Space(s) served by the piece of	Text	50	R		V P			TBD	X	Х	X				Х	Х	Х		
	· · · · · ·	rations	equipment Speed of the item (e.g. elevator	Text	Revit Default 0.x	R R			2		TBD	X		X						x		
			speed) Unit of measure for the 'Spee' attribute (e.g. for an elevator speed	Numeric	0.x	R			2		TBD	X		X						×		
	Sp.	pace	'FPM') Total count of seats available for				V	V		YES	TBD	X	~	X				Х	v	X		
_	Mana	agement erations	students Submittal number associated with the item (final is approved submittal not interim submittals)	Numeric	Integer 250	٨	v	v	2	rES	TBD	x	Х	X				^	Х	x		
Submittal_Required Ob	bject Oper	erations	Indicates whether or not the item/asset requires a submittal; See picklist 'Yes No' and 'Value' column for the allowable entries	YesNo	3	R	٧	٧	2		TBD	х		х						х	Yes No	Value

### **Attribute List**



						F	Respo	nsible		Add	itional Ir	nforomation		Sul	omittal T	уре			Sched	ule Type		Pick	List
Parameter Name	Parameter Association	Asset Type	Description	Туре	Max Characters or Format for Type	Design	Construction	TAB or Cx	Owner (PSU)	Notes	Required in Model	COBie Tab	BIM PxP (BxP)	Space Report	Equipment Report	Network	Color Schema	GSF/NSF/ASF	Project Data	Room Data	Equipment	Pick List	Pick List Column
Substantial_Completion_Date	Project	Space Management	This is the date of substantial completion	Date	YYYYMMDD		R		V		YES	TBD	х	х	х				x	х	х		
SubSystem	Object	Operations	Omni-Class System (Level 3); See picklist 'Building System Type' and 'Value' column for the allowable entries	Text	Revit Default	R	V			2		TBD	х		х							Building System Type	Value
SubType	Object	Operations	Sub type of asset. Sub type group is listed in picklist as "Asset Type:" + the Type of asset (e.g. Asset Type: Fan); See picklist 'Asset Type' and 'Value' column for the allowable entries	Text	Revit Default	R	٧		V	2		TBD	х		х						х	Asset Type	Value
Supply_Air_Temperature	Object	Operations	Air temperature supplied by the item	Numeric	0.x	R	V	V		2		TBD	х		х						х		
Supply_Air_Temperature_SetPoint	Object	Operations	Set point / target temperature supplied by the item	Numeric	0.x	R	٧	٧		2		TBD	Х		Х						х		
System	Object	Operations	Omni-Class System (Level 2); See picklist 'Building System' and 'Value' column for the allowable entries	Text	Revit Default	R	V		T	2		TBD	х		х							Building System	Value
Туре	Object	Operations	Type of asset; See picklist 'Asset Type' and 'Value' column for the allowable entries	Text	Revit Default	R	٧		V	2		TBD	х		х						х	Asset Type	Value
URL_ApprovedSubmittal_Doc	Object	Operations	This is the URL for asset's associated approved submittal (AS) document	URL	256		R		٧			TBD	х		х								
URL_CxReport_Doc	Object	Operations	This is the URL for asset's Commissioning (Cx) Report document	URL	256			R	V			TBD	х		х								
URL_NamePlate_Pic	Object	Operations	This is the URL for asset's picture of the name plate	URL	256		R		٧			TBD	х		х								
URL_OMManual_Doc	Object	Operations	This is the URL for asset's operations and maintenance (OM) manual document	URL	256		R		٧			TBD	х		х								
URL_Permit	Object	Operations	URL for the associated permit documents	Text	256		R		V			TBD	х		х						Х		
URL_PSU_BOX	Project	Operations	This is the URL for the project on PSU's BOX where deliverables will be provided	URL	Revit Default	R	V		V	2	Yes	TBD	х	х	х								
URL_TAB_Doc	Object	Operations	This is the URL for asset's Testing, Adjusting, Balancing (TAB) Report document	URL	256		R	V	٧			TBD	Х		Х								
URL_Warranty_Doc	Object	Operations	This is the URL for asset's warranty (W) document	URL	Revit Default		R		٧			TBD	х		х								
VFD	Object	Operations	Includes a variable frequency drive; See picklist 'Yes No' and 'Value' column for the allowable entries	YesNo	3	R	٧	V		2		TBD	х		х							Yes No	Value
VFD_AirFilter	Object	Operations	The vraible frequency drive (VFD) includes an air filter; See picklist 'Yes No' and 'Value' column for the allowable entries	YesNo	3	R	V	V		2		TBD	х		х							Yes No	Value
Voltage	Object	Operations	Primary voltage for a piece of equipment   REVIT DEFAULT PARAMETER	Text	Revit Default	R	٧			2	YES	TBD	х		х								
Voltage_Ballast	Object	Operations	If the ballast is not a separate object, motor attributes should be included with the parent object	Text	256	R	V			2	YES	TBD	х		х						х		
Voltage_Motor	Object	Operations	If the motor is not a separate object, motor attributes should be included with the parent object	Text	Revit Default	R	٧			2		TBD	х		х						х		
Voltage_Secondary	Object	Operations	Secondary voltage for a piece of equipment if more than one exists	Text	Revit Default	R	٧			2	YES	TBD	Х		Х								
Warranty_End_Date	Object	Operations	The date the equipment warranty ends for PSU OPP	Text	Revit Default		R		٧			TBD	х		Х								
Wattage	Object	Operations	Wattage for the piece of equipment (e.g. for a light fixture it would be the total Luminaire watts)	Numeric	0.xx	R	٧			2	YES	TBD	х		х						х		
Wattage_Lamp	Object	Operations	Wattage for the luminaire lamp(s)	Numeric	Integer	R	٧		$\Box$	2		TBD	Х		Х						х		
Totals  Total Parameters/Attributes Listed:	470					160	157	60	51		63	176	176	49	4	13	4	8	16	46	97		

Totals

Total Parameters/Attributes Listed: 176

# **NOTES:** P = Provide

P = Provide R = Record

V = Validate

v = valida T = Total

X = Required in submittal / schedule as indicated

① PSU FRP (Scott Hord) must approve / validate entry

②The designer enters the basis of design information, and the builder validates or updates to the actual during construction.

③ PSU OPP (Mark Gates) provides this number. It is the official number used in the elevator permitting process.

## General Notes:

1. "Required in the Model" - If yes, it must be a parameter in the model; if no it can be kept in an external data base to the model, however it must be easily linked to the

model data set ensuring the data element is associable with the relevant space or object. The entity shown as "R" is required to track and ensure the data element is **2.** Parameter names where not defaults existing in Revit have a prefix of "psu\_" in the shared parameter file.

Parameter hardes where not defaults existing in Next have a prefix of psu\_ in the shared parameter hie.
 Color schema indicates that a floor plan with spaces colored indicated for the respective parameter is required. Refer to the PSU OPP template for samples.

#### Stats



	Parameters by Model Association
Parameter Name	(All)

Parameters	Required in Model		
Association	YES	No	Grand Total
Area	1		1
Object	31	93	124
Project	9	7	16
Room	18	7	25
Room/Space	2	3	5
Schedule Only	1	3	4
System	1		1
<b>Grand Total</b>	63	113	176

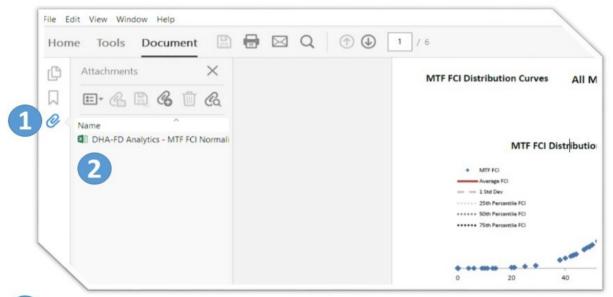
Shared Parameters by Model Association										
(Blank association indicates Revit Default Parameter used)										
Parameter Name	(All)									

<b>Count of Parameter Name</b>	Required in Model		
Association	YES	No	Grand Total
	10	3	13
psuAreas	1		1
psuAssets_Object_Level	28	90	118
psuProject_Level	8	7	15
psuRoom_Level	15	10	25
psuSchedules	1	3	4
<b>Grand Total</b>	63	113	176



### PDF Instructions (See attached Source Files)

- 1. It is standard practice for the PSU OPP BIM team to attach source files used if the results are provided in a PDF file.
- 2. The instructions below show where to find the attached source files. (NOTE: Typically the file should open show attachments, but if not you may need to show attachments in the PDF file.)



- 1 The Acrobat file should open showing attachments (if not click on the paper clip shown)
- Double click the attached source files (e.g. Excel file used for the analysis) to view the file.
- 3. This information is typical for Adobe Acrobat. Some other PDF viewers may not support viewing attachments. Adobe Acrobat Reader supports viewing attachments and is a free download.