

DEVELOPMENT CODE - RESERVES & FACILITIES AS-BUILT DATA SPECIFICATION

Appendix A - Spatial data attribute spreadsheet

As-built asset data types. Mandatory data attribute indicated with a yellow highlighted "M". Optional quantity values indicated with a green highlighted "O" - if a mandatory quantity value cannot be provided then the optional quantity values must be provided

Asset Discipline	Asset Group	Asset Type	explanation of the asset type	Asset Type code	Asset description	Manufacturer / sub-contractor or supplier details	Photo file name	Installation / construction date	as-built plan reference	Condition rating	Survey date	Datum	Length (metres)	Width (metres)	Height / depth (metres)	Diameter (metres)	Volume (m3)	Area (m2)	Quantity (each)	Expired Asset ID (if applicable)	ASSET NOTES
Horticulture	Cult/Plantation	Avocado	avocado orchard.	HCA	M		M	M	M	M	M	M						M			applicable information relating to the effective management of the asset, not otherwise stated by the other attributes
Horticulture	Cult/Plantation	Kiwifruit	kiwifruit orchard.	HCK	M		M	M	M	M	M	M						M			
Horticulture	Cult/Plantation	Protective Vegetation	re-vegetation species often used for erosion control or other aesthetic or environmental reasons	HCV	M	M	M	M	M	M	M	M						M			
Horticulture	Gardens	Annual	flower beds that require a regime of seasonal re-planting and intensive maintenance. Refer Development code specifications - DRAWINGS "200 Streetscape"	HGA	M	M	M	M	M	M	M	M						M			
Horticulture	Gardens	Roses	rose plants grouped in a common location. Refer Development code specifications - DRAWINGS "200 Streetscape"	HGR	M	M	M	M	M	M	M	M						M			
Horticulture	Gardens	Shrubberies	shrub plants grouped in a common location. Refer Development code specifications - DRAWINGS "200 Streetscape"	HGS	M	M	M	M	M	M	M	M						M			
Horticulture	Grassed Amenity	Athletic Track	Standard size provides 400m length (circumference) track	HAA	M		M	M	M		M	M	O	O		O			M		
Horticulture	Grassed Amenity	Grazing Land	grazed land - paddocks with stock proof fences.	HAG	M		M	M	M		M	M						M			
Horticulture	Grassed Amenity	Recreation	A mown grassed surface for passive recreation use.	HAR	M		M	M	M		M	M						M			
Horticulture	Grassed Amenity	Sports	A mown grassed surface for organised sports use. The rule of thumb is that a full size rugby field requires 1.0 Ha of land.	HAS	M		M	M	M		M	M						M			
Horticulture	Grassed Amenity	Weed Control	Land area not mown but requires an area of weed control to provide access - for example, waste-water pump stations.	HAW	M		M	M	M		M	M						M			
Horticulture	Trees	Amenity	A single tree planted for aesthetic or amenity reasons. Refer Development code specifications - DRAWINGS "200 Streetscape"	HTA	M	M	M	M	M	M	M	M			M	M			M		
Horticulture	Trees	Native Bush	natural vegetation canopy	HTB	M		M	M	M		M	M						M			
Horticulture	Trees	Plantation	Generally used for forestry plantations	HTT	M	M	M	M	M		M	M	O	O	M			M			
Horticulture	Trees	Protected	An amenity tree that is notified protected. Refer Development code specifications - DRAWINGS "200 Streetscape"	HTP	M	M	M	M	M	M	M	M			M	M			M		
Horticulture	Trees	Tree Hedge	For example, orchard shelter belts	HTH	M		M	M	M		M	M	O	O	M			M			
Features	Access	Ramp - Beach	Beach access ramp, generally to allow for pedestrians or beach access vehicles - quad bikes.	FAR	M	M	M	M	M	M	M	M	O	O				M			
Features	Access	Steps - Concrete	concrete steps	FAC	M	M	M	M	M	M	M	M	O	O				M			
Features	Access	Steps - Other	used for other step types that don't fall under another type.	FAO	M	M	M	M	M	M	M	M	O	O				M			
Features	Access	Steps - Sand Ladder	Provide pedestrian access over coastal dunes to the beach. Usually between 1 & 1.5m wide constructed from 1/2 round posts as steps, secured to galvanised chain. The wider steps will require a third central chain.	FAL	M	M	M	M	M	M	M	M	M	M							
Features	Access	Steps - Wooden	Staircase design structure	FAW	M	M	M	M	M	M	M	M	M	O							
Features	ART - Open Air	Boulder - engraved	Examples installed at Haiku Park - Katikati	FABE	M	M	M	M	M	M	M	M							M		
Features	Barriers	Bollards - Large 200dia	Installed generally at 1.5 m spacings. Refer Development code specifications - DRAWINGS "300 Reserves"	FIL	M	M	M	M	M	M	M	M							M		
Features	Barriers	Bollards - Small 140dia	Installed generally at 1.5 m spacings. Refer Development code specifications - DRAWINGS "300 Reserves"	FIS	M	M	M	M	M	M	M	M							M		
Features	Boardwalk	Boardwalk	Timber construction. Generally 1.5m wide.	FFBW	M	M	M	M	M	M	M	M	M	O							
Features	Cooking	BBQ - basic fossil fuel	No examples in use at present.	FCW	M	M	M	M	M	M	M	M							M		
Features	Cooking	BBQ - Electric	Free standing stainless steel commercial grade. For examples, see Fairhaven Park (Te Puke) or Brighton Reserve (Waihi Beach)	FCE	M	M	M	M	M	M	M	M							M		
Features	Fences	Post / 7 Wire	Typical stock control fence Refer Development code specifications - DRAWINGS "300 Reserves"	FFW	M	M	M	M	M	M	M	M									
Features	Fences	Post / Rail	All timber construction - common barrier in use at many reserves. Refer Development code specifications - DRAWINGS "300 Reserves"	FFR	M	M	M	M	M	M	M	M	M		O						
Features	Fences	Post / Rope / Cable / Chain	Low height decorative design commonly seen at coastal reserves to direct pedestrians away from the dunes	FFC	M	M	M	M	M	M	M	M	M								
Features	Fences	Post / Windbreak	Simple post and single wire with wind-break cloth	FFB	M	M	M	M	M	M	M	M									
Features	Fences	Rockwall	decorative design - may include concrete or other grout mediums.	FFK	M	M	M	M	M	M	M	M	M	O	M						
Features	Fences	Security	Chain-link design. Common examples include all tennis / netball courts.	FFS	M	M	M	M	M	M	M	M	M		M						
Features	Fences	Timber Pailing	All timber construction - Refer Development code specifications - DRAWINGS "300 Reserves"	FFT	M	M	M	M	M	M	M	M	M		M						
Features	Gates	Decorative	Decorative design. Example - Te Puke cemetery	FGY	M	M	M	M	M	M	M	M	O	O					M		
Features	Gates	Farm Gate - Hinged	Standard design galvanised steel hinged farm gate	FGH	M	M	M	M	M	M	M	M							M		
Features	Gates	Gate - Pipe	Steel single tube construction	FGP	M	M	M	M	M	M	M	M									
Features	Gates	Gate-pedestrian	Steel or timber construction - may incorporate a self-closing function to prevent motorcycle access	FGG	M	M	M	M	M	M	M	M							M		

Appendix A - Aspatial data attribute spreadsheet																					
As-built asset data types. Mandatory data attribute indicated with a yellow highlighted "M". Optional quantity values indicated with a green highlighted "O" - if a mandatory quantity value cannot be provided then the optional quantity values must be provided																					
Asset Discipline	Asset Group	Asset Type	explanation of the asset type	Asset Type code	Asset description	Manufacturer / sub-contractor or supplier details	Photo file name	Installation / construction date	as-built plan reference	Condition rating	Survey date	Datum	Length (metres)	Width (metres)	Height / depth (metres)	Diameter (metres)	Volume (m3)	Area (m2)	Quantity (each)	Expired Asset ID (if applicable)	ASSET NOTES
Features	Lights	Floodlight - Double	carpark or sports court floodlight - double lamp	FLD	M	M	M	M	M	M	M	M			M				M		Notes to include: LUX value, bulb type & power rating
Features	Lights	Floodlight - Quadruple	carpark or sports court floodlight - quad lamp	FLQ	M	M	M	M	M	M	M	M			M				M		Notes to include: LUX value, bulb type & power rating
Features	Lights	Floodlight - Single	carpark or sports court floodlight - single lamp	FLS	M	M	M	M	M	M	M	M			M				M		Notes to include: LUX value, bulb type & power rating
Features	Lights	Floodlight - Triple	carpark or sports court floodlight - triple lamp	FLT	M	M	M	M	M	M	M	M			M				M		Notes to include: LUX value, bulb type & power rating
Features	Play Equipment	Other	Equipment that does not fit other type descriptions	FQO	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Other - Coastal	Coastal playground equipment that does not fit other type descriptions	FQOC	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Seesaw	seesaw	FQS	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Seesaw - Coastal	coastal playground seesaw	FQSC	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Slides	slides - expressed as a single slide or slide unit	FQL	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Slides - Coastal	coastal playground slides - expressed as a single slide or slide unit	FQLC	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Swings	swings - either single or multiple. State number of wing seats	FQW	M	M	M	M	M	M	M	M							M		
Features	Play Equipment	Swings - Coastal	coastal playground swings - either single or multiple. State number of wing seats	FQWC	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Coastal Large	Coastal playground adventure module with substantial structure, multiple activities & accessories	FPCL	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Coastal Medium	Coastal playground adventure module with one accessory such as a slide	FPCM	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Coastal Small	Coastal playground adventure module with no accessories, minimal / basic activities	FPCS	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Large	adventure playground module with substantial structure, multiple activities & accessories	FPL	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Medium	adventure playground module with one accessory such as a slide	FPM	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Adventure - Small	adventure playground module with no accessories, minimal / basic activities	FPS	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Golf - Mini	mini golf activity installation	FPG	M	M	M	M	M	M	M	M							M		
Features	Playgrounds	Surface - Bark	natural timber bark soft-fall surface	FPB	M	M	M	M	M	M	M	M						M			
Features	Playgrounds	Surface - Natural	No specific soft-fall surface - bare land / grass	FPN	M	M	M	M	M	M	M	M						M			
Features	Playgrounds	Surface - Rubber	rubber matting or similar soft-fall surface	FPR	M	M	M	M	M	M	M	M						M			
Features	Ponds	Artificial	artificially constructed asset to provide an aquatic amenity	FDA	M	M	M	M	M	M	M	M						M			
Features	Ponds	Natural	naturally formed pond, adapted as a public amenity	FDN	M	M	M	M	M	M	M	M						M			
Features	Refuse	Rubbish Bin - B FEL Round Colonial	as available from FEL	FRB	M	M	M	M	M	M	M	M							M		
Features	Refuse	Rubbish Bin - C 209 Ltr Drum / Lid	Standard 209 ltr drum, painted with support post and galvanised lid bracket. Example - FEL Tilt-a-drum	FRC	M	M	M	M	M	M	M	M							M		
Features	Refuse	Rubbish Bin - D Excell design	As supplied by Downer Works EDI, designed by Excell Corp	FRD	M	M	M	M	M	M	M	M							M		
Features	Refuse	Rubbish Bin - FEL Tilt SS R100	as available from FEL	FRF	M	M	M	M	M	M	M	M							M		
Features	Refuse	Wheellie Bin - Plastic	Large plastic wheelly bin secured by a pipe steel frame on a concrete base. These bins are being removed from use	FRP	M	M	M	M	M	M	M	M							M		
Features	Seating	Bench - Curved (Haiku Park Style)	SFNZ Curved Bench Seat - manufactured by FEL Group	FSC	M	M	M	M	M	M	M	M							M		
Features	Seating	Bench - FEL Rose Garden style	Victoria seat as available from FEL	FSR	M	M	M	M	M	M	M	M							M		
Features	Seating	Bench - Special Type	Use when no other type matches. Consider selection from FEL as many other types available.	FSU	M	M	M	M	M	M	M	M							M		
Features	Seating	Bench - Steel/Timber	Locally made by "Routed Timber Signs Ltd - John Lewis.	FSS	M	M	M	M	M	M	M	M							M		
Features	Seating	Bench - Timber	Disused design - all timber, refer to FEL catalogue for current all-timber options.	FST	M	M	M	M	M	M	M	M							M		
Features	Signs	ARTISTIC	Custom design - generally involves local Community Board or group involvement	FNZ	M	M	M	M	M	M	M	M							M		
Features	Signs	Board - Routed	Timber construction large board spanned between 2 upright 100 x 100mm square posts with large font text routed into the board. Typical for Reserve site names. Painted	FNB	M	M	M	M	M	M	M	M							M		
Features	Signs	Marine Information	Custom design as specified by TLA - DOC / EBOP. Not usually owned by WBOPDC.	FNM	M	M	M	M	M	M	M	M							M		
Features	Signs	Post - Routed	Square timber post, painted with small interpretive sign or logo routed near top of post on 1 or 2 sides. Typical for walkway direction signs.	FNP	M	M	M	M	M	M	M	M							M		
Features	Signs	Sign - Information Kiosk	Includes a large public use sign-board of permanent construction, with a roof to protect temporary notices from rain. Less permanent style of sign board for attachment to an existing structure or vertical post. made from lighter materials such as thin gauge plywood or plastic. Typical for reserve bylaw signs	FNC	M	M	M	M	M	M	M	M							M		
Features	Signs	Sign Board	Attributes / specifications in accordance with traffic sign legislation / standards.	FNS	M	M	M	M	M	M	M	M							M		
Features	Signs	Traffic / road sign	Attributes / specifications in accordance with traffic sign legislation / standards.	FNT	M	M	M	M	M	M	M	M							M		

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Features	Sports Equipment	Basketball Hoop	Standard full-size steel hoop with spring shock absorber. Example at Brighton Reserve Waihi Beach	FEH	M	M	M	M	M	M	M	M							M		
Features	Sports Equipment	Goals - Soccer	Playground style - for young children. Example at Tui reserve, Waihi Beach Bowentown Boulevard	FEG	M	M	M	M	M	M	M	M							M		
Features	Sports Equipment	Net - Cricket Practice	Standard cricket practise nets & frame installation	FEN	M	M	M	M	M	M	M	M							M		
Features	Sports Equipment	Wicket - Cricket	concrete base with artificial turf glued to surface. Examples at Centennial Park Te Puke	FEW	M	M	M	M	M	M	M	M							M		
Features	Tables	Steel - Pedestal	Locally made by "Routed Timber Signs Ltd - John Lewis. Mounted on a 2 x 2m concrete pad.	FTT	M	M	M	M	M	M	M	M							M		
Features	Tables	Timber - Picnic	Traditional older style all timber. This type is being gradually removed from service due to limited life span.	FTP	M	M	M	M	M	M	M	M							M		
Features	Water Features	Fountain - Display	Water feature style. No examples	FWF	M	M	M	M	M	M	M	M							M		
Features	Water Features	Fountain - Drinking	Drinking fountain - see Reserves Officer for local design	FWD	M	M	M	M	M	M	M	M							M		
Features	Water Features	Water Tap	standard domestic design - available from any hardware shop	FWT	M	M	M	M	M	M	M	M							M		
Features	Whole Site	Resource Consent	This asset type used to acknowledge any resource consent that requires on-going monitoring	FZR	M																
Features	Whole Site	Whole Site	For staff internal use only	FZZ	M																
Structures	Ablutions	Toilets - Basic	Refer to WBOPDC Recreation Standards 2002. Separate male/female	BAB	M	M	M	M	M	M	M	M	O	O					M		
Structures	Ablutions	Toilets - High	Refer to WBOPDC Recreation Standards 2002. High quality fittings, parents room, hand drying. Example - Brighton Reserve	BAH	M	M	M	M	M	M	M	M	O	O					M		
Structures	Ablutions	Toilets - Medium	Refer to WBOPDC Recreation Standards 2002. Includes changing space, well lit, corporate style. Examples - Pahoia Domain, Omokoroa sportsfield, Coronation Park	BAM	M	M	M	M	M	M	M	M	O	O					M		
Structures	Ablutions	Toilets - Very Basic	Refer to WBOPDC Recreation Standards 2002. Portaloo or equivalent (eg. Long-drop style). Generally no water supply.	BAV	M	M	M	M	M	M	M	M	O	O					M		
Structures	Bridges	Pedestrian - Major	Example - Uretara River pedestrian bridge at Haiku Park Katikati	BBJ	M	M	M	M	M	M	M	M	M	O							
Structures	Bridges	Pedestrian - Minor	Example - Kaiate Falls, stream pedestrian bridges	BBP	M	M	M	M	M	M	M	M	M	O							
Structures	Council Building	Council - Admin	council owned administration building structure	BCA	M	M	M	M	M	M	M	M	O	O					M		
Structures	Council Building	Council - Depot	council owned depot building structure	BCD	M	M	M	M	M	M	M	M	O	O					M		
Structures	Council Building	Council - Utility	council owned Utility services building structure	BCU	M	M	M	M	M	M	M	M	O	O					M		
Structures	Council Building	Shed/Storage	council owned shed building structure	BCS	M	M	M	M	M	M	M	M	O	O					M		
Structures	Domestic Bldg	Pensioner	council owned pensioner accommodation unit	BDP	M	M	M	M	M	M	M	M	O	O					M		
Structures	Domestic Bldg	Residential	residential house	BDR	M	M	M	M	M	M	M	M	O	O					M		
Structures	Monument/Statues	Artistic	Unique design.	BMA	M	M	M	M	M	M	M	M							M		
Structures	Monument/Statues	Remembrance	Structures of historic significance. May also include assets such as memorial gates (eg. Katikati Uretara Domain)	BMR	M	M	M	M	M	M	M	M							M		
Structures	Other Structures	Access Ladder	more substantial than "Access" assets requiring structural certification	BZL	M	M	M	M	M	M	M	M	M								
Structures	Other Structures	Access Stairway	more substantial staircase than "Access" assets requiring structural certification	BZS	M	M	M	M	M	M	M	M	O	O					M		
Structures	Other Structures	Other	Any other structure no falling under another type	BZZ	M	M	M	M	M	M	M	M	O	O					M		
Structures	Other Structures	Skate Ramp	also termed "skate-park" - substantial concrete structure with integral hard accessories such as steel jumps. etc.	BZK	M	M	M	M	M	M	M	M	O	O					M		
Structures	Other Structures	Swimming Pool	swimming pool	BZW	M	M	M	M	M	M	M	M	O	O					M		
Structures	Other Structures	Veranda/Deck	vernada/deck - example Pohutukawa Park tennis club-room veranda	BZV	M	M	M	M	M	M	M	M	O	O					M		
Structures	Platforms	Viewing Area	Example at Lindemann Lookout	BFV	M	M	M	M	M	M	M	M	O	O					M		
Structures	Public buildings	Clubroom/Community	public clubroom or community facility building, not hall	BPC	M	M	M	M	M	M	M	M	O	O					M		
Structures	Public buildings	Hall	public hall	BPH	M	M	M	M	M	M	M	M	O	O					M		
Structures	Retaining Walls	Wall 1.5m to 3.0m high	substantial structure - requires a building consent	BRH	M	M	M	M	M	M	M	M	M								
Structures	Retaining Walls	Wall under 1.5m high	lesser structure - may require a building consent	BRL	M	M	M	M	M	M	M	M	M								
Structures	Shelter/Pergolas	Barbeque Shelter	For examples visit Brighton reserve Waihi Beach or Fairhaven Park Te Puke	BSQ	M	M	M	M	M	M	M	M	O	O					M		
Structures	Shelter/Pergolas	Bus Stop	bus stop structure includes seating	BSB	M	M	M	M	M	M	M	M	O	O					M		
Structures	Shelter/Pergolas	Shelter/Shade	constructed from either soft material - such as sun-shade cloth or hard materials similar to a bus-stop.	BSS	M	M	M	M	M	M	M	M	O	O					M		

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Pavement	Carpark	AC SURFACE	Asphalted concrete pavement surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PCA	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Carpark	Cobblestones	cobblestone pavement surface	PCB	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Carpark	Concrete surface	concrete pavement surface	PCT	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Carpark	CS SURFACE	Chip-seal pavement surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PCC	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Carpark	Unsealed Surface	unsealed or gravel surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PCU	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Carpark	Concrete Nib Kerb	standard design concrete kerbing commonly used to border carpark sealed areas	PCN	M	M	M	M	M	M	M	M	M								
Pavement	Carpark	Concrete Kerb & Channel	standard design concrete kerb & channel used to border carpark sealed areas and direct stormwater.	PCK	M	M	M	M	M	M	M	M	M								
Pavement	Carpark	Speed hump (judder bar)	standard design under AS/NZS 2890.1.2004 - 4.9 Type 2 is typical where H=50mm	PCH	M	M	M	M	M	M	M	M	M						M		
Pavement	Carpark	WHOLE CARPARK	this type used to capture the underlying pavement construction materials and cost associated with a carpark. Refer Development code specifications - DRAWINGS "400 Transportation"	PCW	M			M	M		M	M	O	O				M			
Pavement	Hardstand	Cobblestones	cobblestoned surface	PHC	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Hardstand	Pad - Concrete	slab of concrete	PHP	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Path	Surfaced	paved footpath - generally concrete. Refer Development code specifications - DRAWINGS "400 Transportation"	PPS	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Path	Unsurfaced	unpaved footpath - generally gravel or natural earth. Refer Development code specifications - DRAWINGS "400 Transportation"	PPU	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Foundation	this type used to capture the underlying pavement construction materials and cost associated with a recreational surface.	PSF	M	M	M	M	M		M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Surface (Concrete)	recreational hardcourt concrete surface	PSC	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Surface (Multiuse asphalt)	describes a concrete/asphalt surface used for different sport disciplines - may have multiple line markings	PSS	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Surface (Netball asphalt)	concrete/asphalt surface used for netball only	PSN	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Surface (Tennis asphalt)	concrete/asphalt surface used for tennis only	PST	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Hardcourt - Surface synthetic grass	recreational hardcourt synthetic grass top surface	PSG	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Recreation ARea	Loose Court	for example, a petanque court, sand or fine gravel surface	PSL	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	AC SURFACE	Asphalted concrete pavement surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PRA	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	Cobblestones	cobblestone pavement surface	PRB	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	Concrete surface	concrete pavement surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PRT	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	CS SURFACE	Chip-seal pavement surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PRC	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	Unsealed Surface	unsealed or gravel surface. Refer Development code specifications - DRAWINGS "400 Transportation"	PRU	M	M	M	M	M	M	M	M	O	O				M			
Pavement	Roadway	Concrete Nib Kerb	standard design concrete kerbing commonly used to border sealed areas	PRN	M	M	M	M	M	M	M	M	M								
Pavement	Roadway	Concrete Kerb & Channel	standard design concrete kerb & channel used to border sealed areas and direct stormwater.	PRK	M	M	M	M	M	M	M	M	M								
Pavement	Roadway	Speed hump (judder bar)	standard design under AS/NZS 2890.1.2004 - 4.9 Type 2 is typical where H=50mm	PRH	M	M	M	M	M	M	M	M	M						M		
Pavement	Roadway	WHOLE ROADWAY	this type used to capture the underlying pavement construction materials and cost associated with a roadway.	PRW	M			M	M		M	M	O	O				M			
Marine	Boat Ramps	Ferry Landing	Generally single lane - examples at Omokoroa and Opoureora Matakana Island - approx \$250k	MBF	M	M	M	M	M	M	M	M	O	O				O	M		
Marine	Boat Ramps	Ramp-Multiple Lanes	concrete recreational boat ramp - 2 or more lanes	MBM	M	M	M	M	M	M	M	M	O	O				O	M		
Marine	Boat Ramps	Ramp-Single Lane	smaller concrete recreational boat ramp single lane	MBS	M	M	M	M	M	M	M	M	O	O				O	M		
Marine	Boat Ramps	Unformed Access	a naturally formed boat launch area for small water-craft - example at Kauri Point	MBU	M	M	M	M	M	M	M	M	O	O				O	M		
Marine	Consents	Resource Consent 35yr	type used to capture the cost and life-cycle of a typical marine structure resource consent	MRC	M		M	M	M	M	M	M							M		
Marine	Jetty/Wharf	Gangway	gangway structure that connects land or a jetty with a pontoon structure	MJG	M	M	M	M	M	M	M	M	M								
Marine	Jetty/Wharf	Jetty	marine structure that provides for pedestrian dry egress to and from boats secured alongside.	MJJ	M	M	M	M	M	M	M	M	O	O				M			
Marine	Jetty/Wharf	Wharf	A larger marine structure that provides for vehicular and pedestrian access to and from boats secured alongside.	MJW	M	M	M	M	M	M	M	M	O	O				M			

Appendix A - Aspatial data attribute spreadsheet																					
As-built asset data types. Mandatory data attribute indicated with a yellow highlighted "M". Optional quantity values indicated with a green highlighted "O" - if a mandatory quantity value cannot be provided then the optional quantity values must be provided																					
Asset Discipline	Asset Group	Asset Type	explanation of the asset type	Asset Type code	Asset description	Manufacturer / sub-contractor or supplier details	Photo file name	Installation / construction date	as-built plan reference	Condition rating	Survey date	Datum	Length (metres)	Width (metres)	Height / depth (metres)	Diameter (metres)	Volume (m3)	Area (m2)	Quantity (each)	Expired Asset ID (if applicable)	ASSET NOTES
Marine	Pontoons	Concrete	concrete / cavity design pontoon. Example Omokoroa large No.1 pontoon	MPC	M	M	M	M	M	M	M	M	O	O				M			
Marine	Pontoons	Plastic/Polystyrene	plastic/polystyrene modular design. Example Tanners Point	MPP	M	M	M	M	M	M	M	M							M		
Marine	Seawall	Other	use this type when no other type applicable.	MSZ	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Rock-concreted/grouted	rock with concrete grout seawall, including geotextile filter cloth construction	MSC	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Rock-Gabians	rock / gabian coated/galvanised wire basket construction.	MSG	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Rock-Loose	Loose rock design incorporating progressive rock size to final large rock armour plating. Also includes geotextile filter cloth barrier	MSL	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Sand Pillow	Soft option seawall - heavy duty geotextile fabric bag filled with sand and then sealed.	MSP	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Sand tube	Soft option seawall - heavy duty geotextile fabric tube filled with sand and then sealed.	MSU	M	M	M	M	M	M	M	M	M								
Marine	Seawall	Timber	tanalised timber pile and plank clad seawall, includes geotextile filter cloth barrier.	MST	M	M	M	M	M	M	M	M	M								
Drain	Culvert	Culvert - Pipe	Typical reinforced concrete culvert	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M			M					
Drain	Inlet / Outlet	Cesspit - Double	cess/catch-pit with double inlets	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Inlet / Outlet	Cesspit - Single	cess/catch-pit with a single inlet Refer Development code specifications - DRAWINGS "400 Transportation and 500 Stormwater"	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Inlet / Outlet	Inlet	stormwater flush-kerb inlet to drainage system. Refer Development code specifications - DRAWINGS "400 Transportation and 500 Stormwater"	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Inlet / Outlet	Outlet	stormwater outlet part of drainage system. Refer Development code specifications - DRAWINGS "400 Transportation and 500 Stormwater"	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Inlet / Outlet	Soakhole	typical drainage system soakhole	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Open Drain	Natural Channel	a typical open drain	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M								
Drain	Open Drain	Swale	constructed natural open stormwater drainage system. Virtually zero impact on reserve amenity values	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M								
Drain	Stormwater Line	Manhole	stormwater system manhole / lid Refer Development code specifications - DRAWINGS "400 Transportation and 500 Stormwater"	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Drain	Stormwater Line	Stormwater Main	Major stormwater system below ground pipe Refer Development code specifications - DRAWINGS "400 Transportation and 500 Stormwater"	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M			M					
Sewer	Reticulation	Sewerage Service Line	underground waste-water system pipe	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M			M					
Sewer	Reticulation	Pump Station	Utility services pump station - generally waste-water.	refer Utilities as-built specification	M	M	M	M	M	M	M	M							M		
Sewer	On Site Effluent	Advanced System	Modern contained treatment system where space is constrained or a standard septic tank system is not practical or non-compliant. Example located at Te Puna Quarry Reserve	SEA	M	M	M	M	M	M	M	M			O	O	M		M		
Sewer	On Site Effluent	Standard Septic Tank	Traditional concrete septic tank with conventional effluent field discharge - raised bed or sub-surface	SES	M	M	M	M	M	M	M	M			O	O	M		M		
Sewer	On Site Effluent	Holding Tank	May be concrete or plastic. Used where an advanced treatment system is not practical or a standard septic tank system is not compliant.	SEH	M	M	M	M	M	M	M	M			O	O	M		M		
Water	Reticulation	Watermain	Major water system supply below ground pipe	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M			M					
Water	Reticulation	Domestic Line	Small diameter domestic water system supply below ground pipe	refer Utilities as-built specification	M	M	M	M	M	M	M	M	M			M					
Water	Reticulation	Irrigation system	Used to describe the complete system installation. Includes pipe-work, controller & risers	WRI	M	M	M	M	M	M	M	M							M		
Water	Water Storage	Water Tank	water supply tank	WST	M	M	M	M	M	M	M	M			O	O	O		M		

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Asset Discipline	Asset Group	Asset Type	explanation of the asset type	Asset Type code	Asset description	Manufacturer / sub-contractor or supplier details	Photo file name	Installation / construction date	as-built plan reference	Condition rating	Survey date	Datum	Length (metres)	Width (metres)	Height / depth (metres)	Diameter (metres)	Volume (m3)	Area (m2)	Quantity (each)	Expired Asset ID (if applicable)	ASSET NOTES
Equipment	Aquatic Water Treatment	Filtration system	as used for a public swimming pool	EAF	M	M	M	M	M	M	M	M							M		
Equipment	Aquatic Water Treatment	Water Heater	commercial aquatic water heater system such as used for the Dave Hume pool	EAH	M	M	M	M	M	M	M	M							M		
Equipment	Elect Appliance	Water Boiler (Zip)	a standard commercial water boiler as used in a staff cafeteria	EBZ	M	M	M	M	M	M	M	M							M		
Equipment	Elect Appliance	Hand Dryer (hot air)	Hand blower dryer commonly used in public toilets	EBH	M	M	M	M	M	M	M	M							M		
Equipment	Electrical	Camp Ground Power Outlet	an external 240v AC power supply, RCD protected	EEO	M	M	M	M	M	M	M	M							M		
Equipment	Electrical	Switchboard	electrical distribution switchboard	EES	M	M	M	M	M	M	M	M							M		
Equipment	Electrical	Generator / Power supply	electrical power supply - may be either mains supply or "off the grid"	EEG	M	M	M	M	M	M	M	M							M		
Equipment	HVAC	HVAC - cassette type	generally flush-mounted in a ceiling - example, Barks Corner offices committee rooms. Specific Kw output	EHA	M	M	M	M	M	M	M	M							M		
Equipment	HVAC	HVAC - Hi Wall Split	The condenser unit is located outside the building - common in large shared office spaces. Specific Kw output	EHW	M	M	M	M	M	M	M	M							M		
Equipment	HVAC	HVAC - In window combined	the condensor & outlet is one unit, mounted through a wall or window - generally for small room or single occupant office. Specific Kw output	EHC	M	M	M	M	M	M	M	M							M		
Equipment	HVAC	HVAC - Ducted system	Large high cost system for large spaces, such as the Council chambers. Specific Kw output	EHD	M	M	M	M	M	M	M	M							M		
Equipment	Electronics	Datashow	a datashow projector	EED	M	M	M	M		M	M	M							M		
Equipment	Electronics	Facsimile	Fax machine	EEF	M	M	M	M		M	M	M							M		
Equipment	Fixtures	Chairs	chair	EXC	M	M	M	M		M	M	M							M		
Equipment	Fixtures	Clothesline	domestic outside clothesline	EXL	M	M	M	M	M	M	M	M							M		
Equipment	Fixtures	Floor Coverings	generally carpet or synthetic surface	EXF	M	M	M	M	M	M	M	M	O	O				M			
Equipment	Fixtures	Stoves	domestic kitchen combined oven & hob	EXS	M	M	M	M	M	M	M	M							M		
Equipment	Fixtures	Washing Machine	domestic laundry washing machine	EXW	M	M	M	M	M	M	M	M							M		