Utilities Data Content Standard
Appendix C: Utilities Attributes
(Normative)

Facilities Working Group
Federal Geographic Data Committee

August 1997

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
actual capacity	cpcty_act		R		The measured capacity of the pump operating under actual normal head and flow conditions.
actual outflow	outflw_act		R		The actual measured pump flow output.
actual rate of flow	flow_act		R		The measured peak treatment capacity of the water treatment plant when installation has been completed and it is operating under normal inflow and demand conditions.
aerator	aerator_d	value list - boolean	C	16	Indicates whether or not the lagoon has aerators. (yes/no)
aerator power	aeratr_pow		D		The power rating for the aerator, usually in terms of horse power (hp).
air eliminator identifier	fulair_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
air relief valve	airrfvlv_d	value list - boolean	C	16	Indicates whether or not there is an air relief valve installed on subject item? (yes/no)
alarm level	alarm_lvl		D		The elevation of the preset level in a tank which activates a low water level alarm, in feet (English units) or meters (SI units) above mean sea level. Mean sea level is universally considered as the elevation reference surface although local surveys may
alarm valve level	alrmlvlelv		D		The elevation in the wetwell that triggers an alarm indicating no additional storage capacity.
altitude valve	alt_vlv_d	value list - boolean	C	16	Indicates whether or not the tank has an altitude valve which controls the flow into the tank? (yes or no).
amp rate	amp_rate		S		The maximum continuous current rating of the meter.
analog inputs	anlg_in		I		The total number of analog-in ports on the device.
analog outputs	anlg_ot		I		The total number of analog-out ports on the device.
anchor attachment type	anchor_att		C	15	The type of anchor attachment to the pole or tower.
anchor identifier	anchor_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
anchor type	anchor_ty		C	15	The type of anchor used with this quy.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
anode identifier	anode_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
anode weight	anode_wght		R		The initial weight of the anode or anode packet.
Area Unit of Measure	area_u_d	unit of measure - area	C	16	The unit of measure for area.
armor identifier	armor_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
armor length	arm_length		R		The overall length of the armor protection.
armor type	armor_ty_d	hydrography - bank armor lining	C	16	The type of channel armor used.
automatic transfer switch	autotran_d	value list - boolean	C	16	An indicator as to whether or not an automatic transfer switch exist. (yes or no) An automatic transfer switch is an electromechanical device used to automatically change states in the event of a power failure on the primary electrical service to use an
average depth	depth_avg		D		The average depth of containment measured from normal operating pool.
average flow	flow_mean		D		The mean or average flow rate for the open channel.
average flow elevation	flmean_elv		D		The elevation of the mean flow above a specific datum.
average grade	grade_mean		D		The average grade in the drainage basin.
average invert elevation	inv_elv_av		D		The average elevation of the bottom of the lagoon.
average top width flow	flmean_top		D		The average top width of the mean flow.
bank armor	bank_arm_d	hydrography - bank armor lining	C	16	The type of channel armor used.
base elevation	base_elv		D		The elevation of the discharge point of the downspout in feet (English units) or meters (SI units) above some datum.
basic insulation level rating	bil_rat_d	value list - BIL kv	C	16	The insulators basic insulation level rating.
basin identifier	basin_id		C	20	Foreign Key. An operator generated identifier that uniquely identifies the subject item.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
bedding material	bed_mat_d	hydrography - bed material	C	16	The type of bedding material beneath the channel armor.
bottom slope	slope_bot		D		The slope of the bottom of the subject item expressed as a percentage.
bottom width	bot_width		D		The bottom width of the armor measured along the base of the armor.
branch system name	branch_sys		C	12	An operator generated identifier that is a unique site specific name or number designation of a branch or isolated area of a natural gas distribution system.
building identifier	buildng_id		C	20	Foreign Key. Used to link the record to an associated facility (building, structure).
bus group identifier	busgrp_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
bus group material composition	bus_mat_d	material list - electric bus	C	16	The material composition of the electrical bus group.
bypass	bypass_d	value list - boolean	C	16	Indicates whether or not the treatment plant has a bypass line? (yes or no).
cable diameter	cbl_dia		D		The nominal diameter of the cable.
cable diameter unit of measure	cbldia_u_d	unit of measure - length	C	16	The unit of measure of the diameter.
cable dimensions	cbl_dim_d	dimension list - electric cable	C	16	The cable dimension.
cable group identifier	cblgrp_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
cable identifier	cable_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
cable length	cbl_lenght		D		The overall cable length.
cable material	cbl_mat_d	material list - electric cable	C	16	The material composition of the cable.
cable mounting configuration type	cfg_ty_d	type list - electric config	C	16	The cable mounting configuration on the pole or tower.
cable sheath type	cbl_sht_d	type list - sheath insulate	C	16	The type of cable sheathing or insulation.
cable tensile force	cbl_ten		D		The tensile force applied to the guy cable.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
cable type	cbl_ty_d	type list - electric cable	C	16	The type of cable connecting the devices.
capacitor identifier	cpctr_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
capacitor reactive power rating	cpctr_kv_d	value list - electric kvar	C	16	The rating of the capacitor's ability to provide reactive power to a circuit.
capacitor units of measure	cpctr_u_d	unit of measure - electric	C	16	The unit of measure for the electrical capacitor.
capacity alarm level	cpcty_alrm		D		Capacity alarm level.
capacity rate	cpcty_rate		R		The maximum continuous amount of complex power that the substation can provide.
capacity unit of measure	cap_u_d	unit of measure - rate	C	16	The unit of measure for flow capacity in the zone.
capacity units of measure	cpcty_u_d	unit of measure - volume	C	16	The unit of measure of oil capacity.
capped	capped_d	value list - boolean	C	16	Indicates whether or not the pole is capped (yes/no).
cathodic protection	catprot_d	value list - boolean	C	16	Indicates whether or not the pipe has been provided with cathodic protection? (yes or no).
centerline elevation	cntrl_elv		D		The elevation at the centerline of the flow control device, in feet (English units) or meters (SI units) above some datum.
channel identifier	stochan_id		C	20	Foreign Key. Used to link the record to an applicable channel record.
channel length	chan_lgth		R		The overall length of the open channel.
channel style	chan_st_d	style list - open channel	C	16	The style or geometric configuration of the channel
circuit identifier	circuit_id		C	20	Foreign Key. An operator generated identifier locally used to reference a specific electrical circuit.
complex power capacity rating	cpcty_kva		C	12	The limit of the complex power which the demand meter can record.
complex power rating	kva_rate		S		The rating of the complex power that the generator creates.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
condition	cond_d	structure - condition	C	16	Indicates a state of being, or readiness for use of the subject item(e.g., good, fair, poor), from lists or field inspections.
conductor size	condsize_d	dimension list - electric cable	C	16	The size of a single ungrounded conductor in the cable group in American Wire Gauge (AWG) units.
connection design	con_type_d	discriminator - fire connection	C	16	Discriminator. This value differentiates fire connections by use or type.
continuous power capacity rating	cpcty_oper		S		The normal continous amount of complex power that the substation provides.
control ductbank identifier	ecmdbnk_id		C	20	Foreign Key. An operator generated identifier used locally to identify a ductbank.
control type	cntr_ty_d	type list - electric control	C	16	The method of adjusting the kilovar output of the capacitor.
cooling capacity	capac_cool		R		The plant's rated capacity (e.g., tons), which signifies the peak constant cooling ability of the plant.
cooling capacity unit of measure	cap_c_u_d	unit of measure - rate	C	16	The unit of measure for cooling capacity.
cooling method	cool_mth_d	method list - equipment cooling	C	16	The method by which the pump is cooled.
cooling pressure	press_cool		R		The nominal chilled water pressure leaving the plant.
cooling type	cool_ty_d	method list - equipment cooling	C	16	The type of cooling for the generator engine.
cross dikes	x_dikes_d	value list - boolean	C	16	An indicator whether cross dikes exists in the subject item or not (yes or no).
cross sectional area of average flow channel	flmean_xar		R		The cross section area of the mean flow for the open channel.
current output	currnt_out		D		The output direct current from the rectifier to the anode system.
current units of measure	currnt_u_d	unit of measure - electric	C	16	The unit of measure for electrical current.
date acquired	date_acqrd		I		The date on which the subject item was originally acquired or purchased. Format for date is YYYYMMDD (i.e., September 15, 1994 = 19940915).
date analyzed	date_anl		I		Date on which water quality analyses were performed.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
date constructed	date_const		I		The date on which the subject item construction was complete and user occupancy provided. (YYYYMM)
date of manufacture	date_manuf		I		The date of manufacturer for the subject item (YYYYMMDD).
date treated	date_treat		I		The date that the pole was last treated. Format for date is YYYYMMDD (i.e. September 15, 1994 = 19940915).
decibel loss	db_loss		D		Loss of a signal over a conductor expressed in decibels.
design	design_d	discriminator - utility guy	C	16	Discriminator. This value differentiates similar entities by use or type.
design capacity	cpcty_dgn		D		The design flow capacity of the subject item.
device identifier	device_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
device type	dev_ty_d	type list - ecm device	C	16	Discriminator: This value differentiates similar entities by use or type.
diameter	dia_in		D		The inside, or interior, diameter of the fitting.
diameter units of measure	dia_u_d	unit of measure - length	C	16	The unit of measure for diameter.
digital inputs	dgtl_in		I		The total number of digital-in ports on the device.
digital outputs	dgtl_ot		I		The total number of digital-out ports on the device.
dimensions units of measure	dim_u_d	unit of measure - length	C	16	The units of measure for the length.
discharge identifier	dischrg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
disposal description	disposal		C	30	Brief description of how the waste is disposed.
disposition	dispostn_d	disposition list - object	C	16	The status of the subject item (e.g., permanent, temporary, proposed, abandoned, etc.), from lists or entered from field inspections.
distribution box	dstbx_d	value list - boolean	C	16	Indicates whether or not a distribution box exists for the subject item. (yes or no)
distribution box invert elevation	dstbx_i_el		D		The invert elevation of the inside bottom of the distribution box.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
district identifier	distrct_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
down spout length	dnspt_lgth		R		The length of the downspout, measured from highest point to its discharge point.
downspout identifier	dnspt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
downspout lenght	dnspt_lgth		R		The length of the downspout, measured from highest point to its discharge point.
drain type	drain_ty_d	type list - drain	C	16	The type of subject item drain.
drainage pattern	drng_pat_d	hydrography - drainage pattern	C	16	The drainage pattern of the material surrounding the pipe.
drainage texture	drng_tex_d	hydrography - drainage density	C	16	The texture of the material surrounding the pipe.
drainage zone	drng_zon_d	hydrography - drainage zone	C	16	Local name of assigned hydrographic drainage zones.
ductbank identifier	ductbnk_id		C	20	Foreign Key. An operator generated identifier used locally to identify a ductbank.
ductbank length	dbk_length		D		The total length of the ductbank from source to load. Manholes and pullboxes should not break the measurement.
ductbank material	duct_mat_d	material list - pipe	C	16	An indication of the type of material of which the duct is composed.
electrical cable use	cbl_use_d	use list - electric cable	C	16	The use or purpose of the cable group.
electrical circuit identifier	ecmcirc_id		C	20	Foreign Key. An operator generated identifier locally used to reference a specific electrical circuit.
electrical ductbank size	dbk_size_d	size list - ductbank	C	16	A two dimensional description of the physical size of the ductbank including units of measure (e.g., 2 ft x 2 ft, 3 m x 3 m).
electrical event type	event_ty_d	type list - event	C	16	The state of an event (start, end, intermediate, middle, etcetera)
electrical ground identifier	elgrnd_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
electrical manhole identifier	elemnhl_id		C	20	Primary Key. An operator generated identifier unique for a electrical manhole.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
electrical marker identifier	elmark_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
electrical meter identifier	meter_id		C	20	Primary Key. An operator generated identifier unique for a electric meter.
electrical pedestal identifier	ecmped_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
electrical regulator identifier	elereg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
electrical section identifier	elesect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
electrical splice identifier	elsplce_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
elevation level 1 on	level_1_on		D		The elevation of the preset level in a tank which activates one pump or one control valve which supplies water to the tank, in feet (English units) or meters (SI units) above some datum.
elevation level 2 on	level_2_on		D		The elevation of the preset level in a tank which activates a second pump, or control valve, which operates in conjunction with the first activated pump, or control valve, to supply water to the tank, in feet (English units) or meters (SI units) above som
elevation level danger shutoff	level_shut		D		The elevation of the preset level in a tank (ground storage or supply tank) which indicates a dangerously low water level in the tank and turns off all pumps which draw water from the tank, in feet (English units) or meters (SI units) above some datum.
elevation level pumps off	level_off		D		The elevation of the preset level in a tank which turns off the pump(s) or control valve(s) which supply water to the tank, in feet (English units) or meters (SI units) above some datum.
elevation units of measure	elv_u_d	unit of measure - length	C	16	The unit of measure for elevation, usually feet (ft) or meters (m).
enclosure type	enclty_d	type list - electric motor encl	C	16	The type enclosure the motor has to protect it from outside elements like the weather.
engine horsepower	engine_hp		S		The power rating of the prime mover of the generator in horsepower.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
engine manufacturer identifier	eng_man_id		C	20	Foreign Key. An operator generated identifier used to identify the engine manufacturer.
engine model	eng_model		C	20	The engine Model, Product, Catalog, or Item Number.
engine serial number	eng_ser_no		C	20	The engine serial number.
event identifier	event_id		C	20	Foreign Key. An operator generated identifier used to reference a specific node. The x,y,z coordinate from the subject table should match the x,y,z coordinate from the node table with this node_id.
event order	event_ordr		I		The defined order of the event (1, 2, 3, etcetera).
external lighting identifier	ext_lit_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
facility identifier	facil_id		C	20	Alternate Key used to link the record to a user defined Facility Management or Asset Management Database.
feature description	feat_desc		C	60	Any brief description of the feature.
field drain style	drnfl_st_d	style list - drain field	C	16	The style of field drain system indicating the configuration and layout of the drain lines.
filter strainer identifier	fulflt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fire flow rate	fire_flow		D		The code or regulation required fire flow rate from a fire hydrant or fire flow connection.
first transformer capacity	tran_cap1		I		The capacity of the first transformer contained in the transformer bank. Used exclusively for displaying the capacities in the bank.
fitting depth	fit_depth		D		The depth below the ground surface or cover measured from the top of the subject item.
fitting elevation	fit_elv		D		The elevation measured at centerline of the fitting, in feet (English units) or meters (SI units) above some datum.
fitting identifier	stofitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fitting length	fit_lgth		D		The overall length of the fitting.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
fitting width	fit_width		D		The width dimension of the subject item measured at its' widest point.
fixture height	fix_height		D		The height of the fixture above a given reference, usually the grounds surface.
fixture identifier	fixture_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fixture type	fix_ty_d	type list - gas fixture	C	16	The type of fixture.
fixture use	fix_use_d	use list - gas fixture	C	16	The use or purpose of the gas fixture.
flood conrtol device indentifier	flctdev_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
flood depth	flooddepth		D		The average depth of the spcific flood.
flood elevation	flow_elv		D		The average flood elevation.
flood flow	fld_flow		D		The flow rate of the flood based on the flow elevation.
flood frequency	fld_freq		D		The statistical reoccurring frequency of the flood measured in years up to the probable maximum flood (PMF). Typical values are 5-yr, 10-yr, 25-yr, 50-yr, 100-yr, 500-yr, etc.
flood indentifier	flood_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
flood zone	fld_zon_d	hydrography - drainage zone	C	16	Local name of assigned hydrographic drainage zones.
floor elevation	floor_elv		D		The height (or depth) of the bottom of the manhole measured from grade.
flow capacity	flowcpcty		D		The flow capacity of the subject item.
flow control depth	fct_depth		D		The depth below the ground surface or cover measured from the top of the subject item.
flow control length	fct_length		D		The overall length of the flow control.
flow control width	fct_width		D		The width dimension of the subject item, measured from opposite inside faces.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
flow rate	flow_rate		D		The manufacturer's pump capacity (e.g., gpm) rating at a specific design total dynamic head (TDH), usually depicted by a pump curve.
flow test date	flow_test		I		The date of the last fire flow test conducted at the subject fire hydrant or fire department connection. Format for date is YYYYMMDD (i.e., September 15, 1994 = 19940915).
flow units of measure	flow_u_d	unit of measure - rate	C	16	The unit of measure for flow rate.
flow width	flowwidth		D		The top flow width.
frame type	frame_ty_d	type list - substation frame	C	16	The substation structural frame configuration.
frequency units of measure	freq_u_d	unit of measure - rate	C	16	The unit of measure for frequency.
from x coordinate	frcoord_x		D		The x component of individual beginning coordinate point.
from y coordinate	frcoord_y		D		The y component of individual beginning coordinate point.
fuel anode identifier	fulanod_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fuel anode test station identifier	fulant_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fuel fitting identifier	fulfitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fuel hydrant identifier	fulhydr_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
fuel manhole identifier	fulmnhl_id		C	20	Primary Key. An operator generated identifier unique for a fuel manhole.
fuel meter identifier	fulmetr_id		C	20	Primary Key. An operator generated identifier unique for a fuel meter.
fuel pipe identifier	fulpipe_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
fuel pumping station identifier	fulstat_id		C	20	Foreign Key. Used to link the record to an associated station (pump station, pressure reducing station).
fuel section identifier	fulsect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
fuel source	fuel_src_d	source list - fuel gas	C	16	The source of fuel for the pumps.
fuel type	fuel_ty_d	type list - fuel gas	C	16	The type of fuel required to operate the prime mover of the generator.
fuel zone identifier	fulzone_id		C	20	Foreign Key. Used to link the record to the appropriate utility management zone.
fuse rating	fuse_rate		S		The current rating of the fuse protecting the regulator. This will be on the primary side.
fuse type	fuse_ty_d	type list - electric switch	C	16	A label chosen from a standard list of labels describing the characteristics of the fuse.
gas fitting identifier	gasfitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
gas manhole identifier	gasmnhl_id		C	20	Primary Key. An operator generated identifier unique for a natural gas manhole.
gas meter identifier	gasmetr_id		C	20	Primary Key. An operator generated identifier unique for a gas meter.
gas pipe identifier	gaspipe_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
gas pump identifier	gaspump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
gas pumping station identifier	gasstat_id		C	20	Foreign Key. Used to link the record to an associated station (pump station, pressure reducing station).
gas rectifier identifier	gasrect_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
gas regulator identifier	gasreg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
gas section identifier	gassect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
gas source identifier	gassrce_id		C	20	Foreign Key. An operator generated identifier identifying name or number of the gas/fuel source.
gas tank identifier	gastank_id		C	20	Foreign Key. An operator generated identifier used to locally identify the subject item.
gas type	gas_ty_d	type list - fuel gas	C	16	The type of fuel or gas dispenced, carried, used or otherwise handled by the subject item.
gas valve identifier	gasvlv_id		C	20	Foreign Key. The unique site specific identification name or number of a valve associated with or connected to the subject item.
gas zone identifier	gaszone_id		C	20	Foreign Key. Used to link the record to the appropriate utility management zone.
gate capacity	gate_cpcty		D		The flow capacity of the storm gate.
gate identifier	stogate_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
gate length	gate_lgth		D		The overall length of the storm gate.
gate style	gate_st_d	style list - gates	C	16	The particular kind, class, or group of gate.
gate width	gate_width		D		The width dimension of the subject item, measured from opposite inside faces.
generator identifier	genratr_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
generator type	gen_ty_d	type list - generator	C	16	Discriminator: This value differentiates similar entities by use or type.
grade minimum	grade_min		D		The minimum or shallowest grade in the drainage basin.
grade units of measure	grade_u_d	unit of measure - angular	C	16	The unit of measure for grade.
grease trap capacity	gtp_cpcty		D		The grease trap's storage capacity (e.g., gallons, ft3, etc).
grease trap depth	gtp_depth		D		The depth below the ground surface or cover measured from the top of the subject item.
grease trap length	gtp_length		S		The overall length of the grease trap.

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ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
grease trap width	gtp_width		D		The width dimension of the subject item, measured from opposite inside faces.
grit type	grit_type		C	12	The predominate type of grit collected in the grit chamber.
grit chamber	grtchbr_d	value list - boolean	C	16	An indicator as to whether or not the subject item has a grit chamber. (yes or no)
ground elevation	ground_elv		D		The ground elevation at the subject item.
ground elevation 1	grnd_elv_1		D		The elevation of the ground surface at node_id_1, in feet (English units) or meters (SI units) above some datum.
ground elevation 2	grnd_elv_2		D		The elevation of the ground surface at node_id_2, in feet (English units) or meters (SI units) above some datum.
grounded	grounded_d	value list - boolean	C	16	An indicator as to whether or not the pole is grounded. (yes or no)
guy type	guy_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
guy wire identifier	guy_ty_d	type list - utility guy	C	16	The configuration of the guy construction.
head units of measure	head_u_d	unit of measure - rate	C	16	The unit of measure for head.
heating and cooling system anode identifier	hcsanod_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system anode test station identifier	hcsant_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system fitting identifier	hcsfitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system manhole identifier	hcsmnhl_id		C	20	Primary Key. An operator generated identifier unique for a heating/cooling system manhole.
heating and cooling system meter identifier	hcsmetr_id		C	20	Primary Key. An operator generated identifier unique for a heating/cooling meter.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
heating and cooling system pipe identifier	hcspipe_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
heating and cooling system plant identifier	hcsplnt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system pump identifier	hcspump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system rectifier identifier	hcsrect_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system regulator identifier	hcsreg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system valve identifier	hcsvlv_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
heating and cooling system zone identifier	hcszone_id		C	20	Foreign Key. Used to link the record to the appropriate utility management zone.
heating and cooling system zone normal operating c	capac_zone		R		The normal operating capacity for the zone, typically in GPM.
heating capacity	capac_heat		R		The plant's rated capacity (e.g. boiler_hp), which signifies the peak constant heating ability of the plant.
heating capacity unit of measure	cap_h_u_d	unit of measure - rate	C	16	The unit of measure for heating capacity.
heating pressure	press_heat		R		The nominal hot water or steam pressure leaving the plant.
height units of measure	hght_u_d	unit of measure - length	C	16	The unit of measure for height.
hertz rating	hertz_d	value list - hertz	C	16	The frequency of the electrical signal that the generator creates.
high water elevation	hi_wat_elv		D		The high water or overflow elevation of the storage tank at the pumping station, in feet (English units) or meters (SI units) above some datum.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
horsepower units of measure	hp_u_d	unit of measure - electric	C	16	The unit of measure for horse power.
hydrant elevation	hyd_elv		D		The elevation of the hydrant, measured at the hydrant outlet, in feet (English units) or meters (SI units) above some datum.
hydrant identifier	hydrant_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
hydrant type	hyd_ty_d	type list - hydrant	C	16	The particular kind, class, or group of hydrant.
impedance	impedance		D		The overall device resistance measured in ohms.
impedance units of measure	imped_u_d	unit of measure - electric	C	16	The unit of measure for impedance.
industrial waste water collection district identifier	inwdsct_id		C	20	Foreign Key. An operator generate identifier used locally to reference a specific distribution or collection district for the subject utility.
industrial waste water fitting identifier	inwfitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
industrial waste water grit chamber identifier	inwgrtc_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
industrial waste water inlet identifier	inwinlt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
industrial waste water lagoon identifier	inwlgon_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
industrial waste water manhole identifier	inwmnhl_id		C	20	Primary Key. An operator generated identifier unique for an industrial waste manhole.
industrial waste water meter identifier	inwmetr_id		C	20	Primary Key. An operator generated identifier unique for a industrial waste meter.
industrial waste water oil-water separator identifier	inwsep_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
industrial waste water pipe identifier	inwpipe_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
industrial waste water pump identifier	inwpump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
industrial waste water pumping station identifier	inwstat_id		C	20	Foreign Key. Used to link the record to an associated station (pump station, pressure reducing station).
industrial waste water section identifier	inwsect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
industrial waste water tank identifier	inwtank_id		C	20	Foreign Key. An operator generated identifier used to locally identify the subject item.
industrial waste water treatment plant identifier	inwplnt_id		C	20	Foreign Key. The site specific unique indentification name or number of the treatment plant.
industrial waste water valve identifier	inwvlv_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
inlet diameter	inlet_dia		D		The diameter of the hydrant inlet connection.
inlet point identifier	stoinlt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
inlet step	inlet_st_d	discriminator - inlets	C	16	Discriminator. This value differentiates similar entities by use or type.
input voltage	volt_in_d	value list - voltage	C	16	The line-to-line voltage of the transmission line that is the source for the substation.
installation type	instl_ty_d	discriminator - installation	C	16	Discriminator. This value differentiates similar entities by use or type.
insulation classification	insul_cl_d	type list - electric motor insul	C	16	The classification of the motor's insulation.
insulation material	insulmat_d	type list - sheath insulate	C	16	The type of material with which the conductors are insulated from each other and from their surroundings.
insulation type	insl_typ_d	type list - sheath insulate	C	16	The type of insulation covering the conductor.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
internal meter	int_mtr_d	value list - boolean	C	16	An indicator as to whether or not the rectifier has an internal meter, yes/no.
invert elevation	invert_elv		D		The top surface elevation of the subject item's interior floor/bottom in feet (English units) or meters (SI units) above some datum.
invert elevation 1	inv_elv_1		D		The elevation of the bottom of pipe (i.e., pipe invert) at node_id_1 in feet (English units) or meters (SI units) above some datum.
invert elevation 2	inv_elv_2		D		The elevation of the bottom of pipe (i.e., pipe invert) at node_id_2 in feet (English units) or meters (SI units) above some datum.
laboratory name	lab_name_d	name list - laboratory	C	16	The name of the laboratory primarily responsible for completing the required tests for the subject item.
laboratory type	lab_ty_d	type list - laboratory	C	16	The type of the laboratory primarily responsible for completing the required tests for the subject item.
lagoon identifier	lagoon_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
lagoon length	lgn_length		D		The average length of the lagoon.
lagoon width	lgn_width		D		The average width dimension of the lagoon, measured from top of opposite side slopes.
lateral average length	laterlmean		D		The mean or average length of the drainage laterals.
lateral slope	laterl_slp		D		The average slope of all drainage laterals.
lateral total length	laterl_tot		D		The total (sum) length of all drainage laterals.
length units of measure	lenght_u_d	unit of measure - length	C	16	The unit of measure for length.
lighting type	lit_typ_d	discriminator - external light	C	16	Discriminator -
lined	lined_d	value list - boolean	C	16	An indicator as to whether the pipe is lined or not (yes/no).
liner type	liner_ty_d	type list - manhole liner	C	16	The type of liner used if the pit/manhole is used for neutralizing chemicals.
load percentage	load_prcnt		S		The percentage of the total KVA capacity of the transformer that is presently connected to it. This percentage of the load is obtained by circuit analysis.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
loose buffered	loosbuf_d	value list - boolean	C	16	An indicator as to whether or not the cable is loose buffered (yes/no).
low pressure	press_low		D		The preset low, or minimum, operating pressure setting of a tank. For a hydropneumatic (i.e., pressure) type tank this is the setting which activates the pump(s) supplying water to the tank. For an elevated type tank, this is the setting which activates
managing office	manage_off		C	12	The managing office/organization.
manhole	manhole_d	value list - boolean	C	16	An indication as to whether or not is part of a manhole or has access via a manhole (yes/no).
manhole diameter	mh_dia		D		The diameter dimension of the subject item, measured from inside face of wall to inside face of opposite wall.
manhole identifier	manhole_id		C	20	Primary Key. An operator generated identifier unique for a storm sewer manhole.
manhole length	mh_length		D		The length dimension of the subject item, from outside face of exterior wall/side to outside face of opposite exterior wall/side.
manhole width	mh_width		D		The width dimension of the subject item, from outside face of exterior wall/side to outside face of opposite exterior wall/side.
manufacturer identifier	manuf_id		C	16	Foreign Key. An operator generated identifier used to identify a specific manufacturer.
material	mat_d	material list - pipe	C	16	The material composition of the subject item, such as wood, concrete, steel, cast iron, plastic, etc.
maximum grade	grade_max		D		The maximum or steepest grade in the drainage basin.
maximum pressure	press_max		D		The manufacturer's or industry standard's maximum pressure rating of the subject item.
measure type	meas_ty_d	type list - diameter measure	C	16	This attribute provides information concerning the basis for the subject item's inlet and outlet dimensions (e.g., inside diameter, outside diameter, nominal).
meter constant	mtr_const		I		The multiplication factor by which one must multiply the difference in present and previous meter readings to determine actual power consumed.
meter customer	mtr_custmr		C	20	The name of the individual, company, or government agency served by the subject item.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
meter depth	mtr_depth		D		The depth below the ground surface or cover measured from the top of the subject item.
meter elevation	meter_elv		D		The elevation at the centerline of the meter, in feet (English units) or meters (SI units) above some datum.
meter length	mtr_length		D		The overall length of the meter.
meter service	srvc_mtr_d	value list - boolean	C	16	An indicator as to whether or not the meter is installed on a service line? (yes or no)
meter type	meter_ty_d	type list - electric meter	C	16	A label describing the features of the electrical system that the meter is measuring.
meter use	mtr_use_d	use list - electric device	C	16	An indication of the type of service the meter is monitoring.
meter width	mtr_width		D		The overall width dimension of the subject item.
model number	model_no		C	12	The Model, Product, Catalog, or Item Number of subject item.
monitoring agency	mon_agency		C	15	The regulator agency that monitors inflow, containment, and discharge for the subject item.
motor horsepower rating	motor_hp		C	15	The output power rating of the motor in units of horsepower.
motor identifier	motor_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
motor type	motor_ty_d	type list - motor	C	16	A label representing the name of a certain category of motors in which the motor fits based on common features of construction with other motors in the same category.
mounting type	mount_d	discriminator - electric tranbnk	C	16	Discriminator. The type of mounting for the transformer bank.
name	name_d	name list - fuel source	C	16	The site specific identification name or number assigned to the subject item.
narrative	narrative		C	240	A description or other unique information concerning the subject item, limited to 240 characters.
neutral conductor material	neut_mat_d	material list - electric cable	C	16	The type of material composing the neutral conductors in a section.
neutral conductor size	sizeneut_d	dimension list - electric cable	C	16	The size of the neutral conductors.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
neutralization agent	neut_agent		C	30	The chemical agent in the pit which chemically neutralizes the in stream reactant.
neutralization pit diameter	neut_dia		D		The diameter dimension of the subject item, measured from inside face of wall to inside face of opposite wall.
neutralization pit identifier	neut_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
neutralization pit length	neut_lngth		D		The length dimension of the subject item, from outside face of exterior wall/side to outside face of opposite exterior wall/side.
neutralization pit width	neut_width		D		The width dimension of the subject item, from outside face of exterior wall/side to outside face of opposite exterior wall/side.
nodal elevation	nodal_elv		R		The elevation of subject node, which is used in performing computer analyses of the water distribution system. The node elevation is usually the ground elevation at the subject node, or the elevation of the subject item located at the subject node (e.g.,
nominal cooling temperature	temp_cool		R		The nominal chilled water temperature leaving the plant.
nominal heating temperature	temp_heat		R		The nominal hot water temperature leaving the plant.
normal head	head_norm		D		The normal operating head for the subject item.
normal operating pressure	press_oper		D		The normal operating gas system pressure in the gas line on the inline side of the station.
normal pressure	press_norm		D		The normal operating pressure of the subject item.
number of cables	no_cables		S		A number representing the total number of cables in the manhole. A cable passing through the manhole counts as one cable and a cable tying into another cable inside the manhole counts as one cable.
number of circuits	no_circuit		S		The total number of circuits that are being fed by the substation.
number of conductors	no_conduct		S		The total number of ungrounded conductors in the cable.
number of ducts	no_ducts		S		An indicator of the number of conduits or wireways found in the ductbank.
number of floods	no_floods		S		The total number of floods recorded for this channel.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
number of inlet pipes	no_pipes_i		S		The number of pipes discharging into the subject item.
number of laterals	no_lateral		S		The total number of laterals.
number of links	no_links		S		Number of links in the cable.
number of neutral conductors	no_neutral		S		The number of neutral conductors.
number of outlet pipes	no_pipes_o		S		The number of pipes carrying material/fluid out of the subject item.
number of phases	no_phases		S		The number of phases to which this device provides reactive power.
number of pipes	no_pipes		S		The number of the pipes entering and exiting the subject item.
number of pumps	no_pumps		S		The total number of pumps located at the subject item.
number of spares	no_spares		S		The number of spare ducts enclosed in the ductbank for future use.
number of switches	no_switch		S		The number of switches at this installation. Each switch has its own record.
number of taps	no_taps		S		The number of available points of connection on the regulator which may be used to change the voltage.
number of terminals	no_term		I		The total number of terminal connections at the test station.
number of transformers	no_trans		S		The total number of transformers presently in use at the substation.
number of twisted pairs	no_pairs		S		The number of pairs in a twisted pair cable.
number of valves	no_valves		S		The number of valves inside the subject item.
observation identifier	observ_id		C	20	Foreign Key. An operator generated identifier used to locally designate an observation occurence.
oil capacity	oil_cpcty		D		The manufacturer recommended amount of oil that the generator engine requires to operate properly.
oil-water separator	o_w_sep_d	value list - boolean	C	16	An indicator as to whether or not grit chamber has an intergrated oil-water separator. (yes or no)

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
optimum operating temperature	temp_optim		D		The optimum operating temperature for the subject item.
outlet 1 diameter	outcon1dia		D		The diameter of the hydrant outlet, or for hydrants with more than one outlet, the diameter of the largest hydrant outlet.
outlet 2 diameter	outcon2dia		D		The diameter of the hydrant outlet, or for hydrants with more than one outlet, the diameter of the second largest hydrant outlet.
outlet 3 diameter	outcon3dia		D		The diameter of the hydrant outlet, or for hydrants with more than one outlet, the diameter of the smallest hydrant outlet.
outlet control	out_cntr		C	12	The outlet control.
outlet pressure	press_out		D		The design or maximum system pressure in the line on outlet side of the pressure reducing station.
overflow elevation	ovrflw_elv		D		The elevation measured at the point of overflow, or entrance, into the tank overflow pipe,, in feet (English units) or meters (SI units) above some datum.
owner	owner_d	name list - owner	C	16	The name of the owner, or managing government agency, of the subject item.
owner status	own_stat_d	status list - owner	C	16	The relationship of the owner, or managing government agency, to the subject item, as leased, owned, rented, etc.
owner type	owner_ty_d	type list - owner	C	16	The type of owner.
pedestal identifier	ped_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
percentage tapped	prcnt_tap		D		The percentage of the voltage that will be changed by moving the connection up or down one tap.
perculation units of measure	perc_u_d	unit of measure - rate	C	16	The unit of measure for soil perculation.
perimeter units of measure	perim_u_d	unit of measure - length	C	16	The unit of measure for length.
permit expiration date	date_per_x		I		The date the current permit expires for the subject item.
permit number	permit_no		C	28	The unique site specific permit number issued from the regulating agency for operation of the generator.
phase letter	phas_ltr_d	type list - electric phase	C	16	The letter(s) of the phase(s) for the subject item.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
pipe identifier	stopipe_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
pipe in identifier	pipe_in_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
pipe out identifier	pip_out_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
pipe outlet	pip_outl_d	value list - boolean	C	16	An indicator as to whether or not the lagoon has pipe outlets. (yes or no)
pipe width	pipe_width		D		The width dimension of the subject item, measured from opposite inside faces.
plant elevation	plant_elv		D		The finished floor elevation of the treatment plant, in feet (English units) or meters (SI units) above some datum.
plant length	plant_lgth		D		The overall length dimension of the treatment plant.
plant width	plantwidth		D		The overall width dimension of the water treatment plant.
pole depth	pole_depth		D		The depth the pole is buried in the foundation (usually the ground surface).
pole height	pole_hght		D		The distance the pole extends above the foundation (usually the ground surface).
pole identifier	pole_id		C	20	Foreign Key. An operator generated identifier used to uniquely identify the subject item.
pole length	pole_lgth		D		The overall length of the pole from tip to tip.
pole material	pole_mat_d	material list - pole	C	16	The material composition of the pole.
power factor	power_fact		R		The cosine of the phase angle between the voltage and the current that the generator creates.
power generated	pwr_gen		D		The power generated by the pump, equal in the U.S. to 746 watts and nearly equivalent to the English gravitational unit of the same name that equals 550 foot-pounds of work per second.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
power required	pwr_req_d	value list - voltage	C	16	The voltage of the electrical power required by the subject item.
pressure alarm level	press_alrm		D		The preset pressure setting of a tank which activates a low tank pressure alarm.
pressure in	press_in		D		The design fuel system pressure in the line on inlet side of the pressure regulator.
pressure units of measure	press_u_d	unit of measure - pressure	C	16	The unit of measure of pressure.
primary voltage	pri_volt_d	value list - voltage	C	16	The voltage on the source side of the regulator with the associated units given.
priming method	prime_meth		C	15	The method by which the pump is primed.
priming requirement	prim_rqd_d	value list - boolean	C	16	An indicator as to whether or not the pump has to be primed? (yes or no).
product type	prod_typ_d	type list - heating-cooling	C	16	The type of product (chilled water, high temp, etc) produced at this plant.
project identifier	project_id		C	20	Foreign Key. Used to link the record to the appropriate project or contract under which the item was studied, collected, installed, purchased, or managed.
pump elevation	pump_elv		R		The elevation measured at centerline of the pump, in feet (English units) or meters (SI units) above some datum.
pump horsepower rating	pump_hp		D		The power generated by the pump, equal in the U.S. to 746 watts and nearly equivalent to the English gravitational unit of the same name that equals 550 foot-pounds of work per second.
pump identifier	pump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
rate units of measure	rate_u_d	unit of measure - rate	C	16	The unit of measure for rate.
rated flow capacity	flow_rated		R		The plant manufacturer's rated treatment plant capacity (e.g., gpm), which signifies the peak constant or daily flow of rawwater that the plant can treat and transform to the specified water quality requirements.
rated outflow	outflw_rat		R		The manufacturer's pump capacity (e.g., gpm) rating at a specific design total dynamic head (TDH), usually depicted by a pump curve.
reach name	reach_name		C	20	An operator generated identifier for the reach of an open channel.
reactance	reactance		R		The reactance of the bus provided by the manufacturer.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
reactant	reactant		C	30	The chemical in the incoming waste stream being neutralized.
readout	readout_d	type list - display	C	16	The type of display or readout for the device.
real power rating	kw_rate		S		The rating of the real power that the generator creates.
rectifier identifier	rect_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
reducing station identifier	red_sta_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
regulator elevation	reg_elv		D		The elevation of the pressure regulator, measured at the regulator centerline.
regulator identifier	reg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
regulator use	reg_use_d	use list - electric device	C	16	An indication of whether the regulator is on a line or in a substation.
regulator voltage type	reg_type_d	type list - electric volt regul	C	16	The type of voltage regulator.
regulator weight	reg_weight		S		The force of the regulator toward the center of the earth due to the regulator's mass.
required pressure	press_reqd		D		The required maximum outlet pressure setting for the regulator.
reseroir type	res_typ_d	type list - reservoir	C	16	The type or classification of the reservoir.
reservior length	res_length		D		The overall length of the reservoir.
reservior width	res_width		D		The average width dimension of the reservoir, measured from top of opposite side slopes.
reservoir identifier	res_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
residual pressure	press_resd		D		The measured pressure at a hydrant or connection during a flow test conducted at the subject hydrant or connection.
resistance	resistance		R		The resistance of the bus provided by the manufacturer.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
rim elevation	rim_elv		D		The elevation of exterior top surface of the subject item's lid, hatch, rim, or roof in feet (English units) or meters (SI units) above some datum.
rock condition	rock_cnd_d	condition list - rock strength	C	16	The condition of the rock relative to the rocks strength and integrity.
sampling frequency	smpl_freq		S		The frequency at which material sampling is conducted.
screen type	scrn_ty_d	type list - culvert screen	C	16	The type of screen used to cover the end of the culvert.
second transformer capacity	tran_cap2		I		The capacity of the second transformer contained in the transformer bank. Used exclusively for displaying the capacities in the bank.
secondary voltage	sec_volt_d	value list - voltage	C	16	The voltage on the load side of the regulator with the associated units given.
section identifier	ecmsect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
separator code	sep_code		C	2	The oil-water separator code.
separator content	sep_contnt		C	20	Separator contents
separator identifier	sep_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
separator name	sep_name		C	12	The site specific identification name or number assigned to the subject item.
separator process	sep_procss		C	30	The specific type of separation process.
separator volume	sep_volume		D		The volume of the oil-water separator.
serial number	serial_no		C	15	The manufacturer's serial, or unique identification number of the subject item.
sewer drain identifier	sewrdrn_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
sewer wall identifier	sewrwal_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
sign height	sign_hgth		D		The height dimension of the sign.
sign material composition	sign_mat_d	material list - pole	C	16	The material composition of the sign.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
sign text	sign_text		C	30	The text on the sign, up to 30 characters.
sign width	sign_width		D		The width dimension of the sign.
size	size_d	value list - pipe diameter	C	16	The manufacturer's designated size, or nominal (i.e., rounded to the nearest unit) diameter for the subject item (e.g., 1" gas hydrant, 2" meter, 6" pipe).
size units of measure	size_u_d	unit of measure - length	C	16	This attribute provides information concerning the unit of measure for size of the subject item.
slope of left side	slope_left		D		The slope of the left channel side expressed as a percentage.
slope of right side	slope_rght		D		The slope of the right channel side expressed as a percentage.
slope units of measure	slope_u_d	unit of measure - angular	C	16	The unit of measure for slope.
soil condition	soil_cdn_d	condition list - soil consistncy	C	16	The consistancy of the soil indicating soil condition and strength.
soil erosion	soil_ero_d	soils - erosion K	C	16	The erosion potential of the soil.
soil family	soil_fam_d	soils - family	C	16	The soil family.
soil perculation rate	soil_perc		D		The perculation rate of the soil in which the drain field lines are placed.
soil texture	soil_tex_d	soils - texture	C	16	The soil texture.
sound dampening insulation	sound_d	value list - boolean	C	16	An indicator as to whether or not Insulation was added to dampen the transmission of noise. (yes or no)
source	source_d	source list - fuel gas	C	16	The source of fuel for the subject item.
source identifier	source_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
source name	src_name_d	name list - water source	C	16	The name of the water source (e.g., Mississippi River, Bayou LaFouche, etc.).
spare analog inputs	anlg_in_sp		I		The number of spare analog-in ports.
spare analog outputs	anlg_ot_sp		I		The number of spare analog-out ports.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
spare digital inputs	dgtl_in_sp		I		The number of spare digital-in ports.
spare digital outputs	dgtl_ot_sp		I		The number of spare digital-out ports.
startup configuration type	start_ty_d	type list - electric motor start	C	16	The startup configuration for the motor.
static pressure	press_stat		D		The numeric pressure head on the subject item under static (i.e., no flow or demand) conditions in the utility system.
static wire material	statmat_d	material list - electric cable	C	16	The type of material composing the static wires in a section.
static wire size	statsize_d	dimension list - electric cable	C	16	The dimension of the static wire in American Wire Gauge (AWG) units.
station capacity	sta_cpcty		D		The pump station's output capacity (e.g., gpm) rating (with all pumps operating) at a specific total dynamic head (TDH), which correlates to normal system pressure head or design pressure head.
station elevation	sta_elv		D		The top surface elevation of the subject item's interior floor/bottom in feet (English units) or meters (SI units) above some datum.
station identifier	stostat_id		C	20	Foreign Key. Used to link the record to an associated station (pump station, pressure reducing station).
station length	sta_length		D		The length dimension of the station, measured from outside face of the exterior wall/side to outside face of the opposite exterior wall/side.
station type	sta_ty_d	discriminator - pump sta	C	16	The type of station.
station width	sta_width		D		The width dimension of the station, measured from outside face of the exterior wall/side to outside face of the opposite exterior wall/side.
status	status_d	status list - manhole	C	16	The status of the manhole indicating its' useability.
stilling basin identifier	sbn_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
stilling basin length	sbn_length		D		The overall length of the stilling basin.
stilling basin width	sbn_width		D		The average width dimension of the stilling basin, measured from top of opposite side slopes.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
storage capacity	stor_cpcty		R		The grit chamber overall storage capacity.
storm discharge identifier	stodcrg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
substation identifier	substa_id		C	20	Foreign Key. An operator generated identifier locally used to identify the substation feeding this bus group.
substation type	sst_ty_d	type list - substation	C	16	A label indicating the type of service that the substation performs (e.g. distribution substation, facility substation).
switch dimensions	switch_dim		C	20	A three dimensional description of the amount of space which a switch occupies (e.g., 2 x 1 x 4).
switch identifier	switch_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
switch normal positioning	swt_sta_d	status list - electric switch	C	16	The positional condition of a switch during normal circuit conditions (e.g., normally-open, normally closed).
switch phase	switch_d	value list - boolean	C	16	This indicates whether the capacitor is presently in the circuit or is not presently in the circuit.
switch rating	switch_rat		S		The maximum continous amount of current to which the switch should be subjected.
switch type	swt_ty_d	type list - electric switch	C	16	A label chosen from a standard list of labels indicating the characteristics of a switch.
switch weight	swt_weight		S		The force of the switch toward the center of the earth due to the switch's mass.
switching cubicle identifier	sw_cub_no		C	20	A locally assigned switching cubicle number or designator.
tank style	tank_st_d	style list - tank	C	16	The particular kind, class, or group of tank (e.g., elevated, hydropneumatic, etc.).
tank volume	tank_vol		R		The tank's storage capacity (e.g., gallons, ft3, etc).
tank alarm elevation	tnkalrmelv		D		Elevation of water in upstream ground water storage tank(s) which represents a low level which activates a "low water/pressure alarm".
tank capacity	tank_cpcty		R		The tank's storage capacity (e.g., gallons, ft3, etc).

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
tank depth	tank_depth		D		The depth below the ground surface or cover measured from the top of the subject item.
tank description	tank_des_d	discriminator - wastewater tank	C	16	Discriminator. This value differentiates similar entities by use or type.
tank diameter	tank_dia		D		The inside diameter of the tank, measured from the interior wall surface to the opposite interior wall surface.
tank identifier	tank_id		C	20	Foreign Key. An operator generated identifier used to locally identify the subject item.
tank length	tank_lgth		D		The length dimension of the tank, measured from outside face of the exterior wall/side to outside face of the opposite exterior wall/side.
tank style	tank_sty_d	style list - tank	C	16	The style of tank, such as underground, above ground, etc.
tank use	tank_use_d	use list - tank	C	16	The particular kind or use of the tank.
tank width	tank_width		D		The exterior width dimension of the tank, measured from outside face of the exterior wall/side to outside face of the opposite exterior wall/side.
tape	tape_d	value list - boolean	C	16	This attribute indicates whether or not location marker tape or wire been installed above the waterline pipe to facilitate it's location with a magnetometer? (yes or no).
temperature units of measure	temp_u_d	unit of measure - temperature	C	16	The unit of measure for temperature.
tensile force units of measure	ten_u_d	unit of measure - weight	C	16	The unit of measure of tension .
test station identifier	tst_sta_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
test type	test_ty_d	type list - sewage test	C	16	The type of test used to evaluate the contained material.
third transformer capacity	tran_cap3		I		The capacity of the third transformer contained in the transformer bank. Used exclusively for displaying the capacities in the bank.
to x coordinate	tocoord_x		D		The x component of individual beginning coordinate point.
to y coordinate	tocoord_y		D		The y component of individual beginning coordinate point.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
to z coordinate	tocoord_z		D		The z component of individual beginning coordinate point.
top elevation	top_elv		D		The elevation of exterior top surface of the subject item's lid, hatch, rim, or roof in feet (English units) or meters (SI units) above some datum.
top width	top_width		D		The top width of the armor.
total dynamic head rating	tdh_rated		D		The total dynamic head upon which the capacity_rated is based.
total dynamic head units of measure	tdh_u_d	unit of measure - length	C	16	The unit of measure for Total Dynamic Head (TDH), usually expressed in feet (english units).
total kva rating	total_kva		D		The total kva rate for all transformers attached to the transformer bank.
transformer bank identifier	tranbnk_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
transformer identifier	trans_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
transformer type	trf_type_d	type list - electric transformer	C	16	The type of transformer indicating whether it is liquid or dry filled and used to setup or setpdown the power.
transformer use	tran_use_d	use list - electric device	C	16	A label indicating the reason that the transformer is installed in the system (e.g., distribution substation, residential service, commercial service).
transformer vault identifier	tranvlt_id		C	20	Foreign Key. An operator generated identifier locally used to identify a specific transformer vault.
transformer weight	tran_wt		D		The force of the transformer toward the center of the earth due to the transformer's mass.
trap style	trap_st_d	style list - tank	C	16	The particular kind, class, or group of tank (e.g., elevated, hydropneumatic, etc.).
trap identifier	trap_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
treatment type	treattyp_d	type list - pole treatment	C	16	Defines any treatment applied to the pole to improve its life.
trench width	trench_wid		D		The trench width excavated for the field drains.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
tributary code	tribut_cod		C	20	An operator generated identifier used locally to identify a tributary subsystem of the main utility system.
type	type_d	type list - fitting	C	16	A discriminator indicating the kind, class, or group of the subject item.
use	use_d	discriminator - fuel pipe	C	16	Discriminator. This value differentiates similar entities by use or type.
use rate	use_rate		S		The fuel/gas useage rate for the subject item.
user indicator	user_ind_d	value list - boolean	C	16	An indicator as to whether or not the lagoon is used for industrial wastewater. (yes or no)
utilities general marker identifier	marker_id		C	20	Primary Key. An operator generated identifier unique for a general utility marker.
valve diameter	vlv_dia_d	value list - pipe diameter	C	16	The manufacturer's nominal diameter.
valve elevation	valve_elv		D		The elevation measured at centerline of the valve, in feet (English units) or meters (SI units) above some datum.
valve identifier	valve_id		C	20	Foreign Key. The unique site specific identification name or number of a valve associated with or connected to the subject item.
valve size	vlv_size		R		The manufacturer's nominal size designation.
valve style	vlv_st_d	style list - valve	C	16	The style of the valve.
voltage	voltage_d	value list - voltage	C	16	The voltage of the bus group.
voltage output	volt_out_d	value list - voltage	C	16	The line-to-line output voltage of the substation.
volume units of measure	vol_u_d	unit of measure - volume	C	16	The unit of measure of volume.
waste water collection fitting identifier	wwtfitt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
waste water discharge identifier	wwtdcrg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
waste water down spout identifier	wwtdspt_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
waste water lagoon sanitary waste water	user_san_d	value list - boolean	C	16	An indicator as to whether or not the lagoon is used for wastewater. (yes or no)
waste water manhole identifier	wwtmnhl_id		C	20	Primary Key. An operator generated identifier unique for a sanitary sewer manhole.
waste water meter identifier	wwtmetr_id		C	20	Primary Key. An operator generated identifier unique for a wastewater meter.
waste water neutralization pit identifier	wwtneut_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
waste water oil-water separator flow capacity	flowcpcty		D		The flow capacity of the subject item.
waste water oil-water separator identifier	wwtsep_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
waste water pump identifier	wwtpump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
waste water section identifier	wwtsect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
waste water tank identifier	wwstank_id		C	20	Foreign Key. An operator generated identifier used to locally identify the subject item.
waste water treatment plant identifier	wwtplnt_id		C	20	Foreign Key. The site specific unique indentification name or number of the treatment plant.
waste water valve identifier	wwtvlv_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system anode identifier	watanod_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system anode test indentifier	watant_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system hydrant identifier	wathydr_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system manhole identifier	watmnhl_id		C	20	Primary Key. An operator generated identifier unique for a water manhole.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
water system meter identifier	watmetr_id		C	20	Primary Key. An operator generated identifier unique for a water meter.
water system pipe identifier	watpipe_id		C	20	Foreign Key. An operator generated identifier of the utility line pipe to which the subject item is connected. Pipe_id represents the unique site specific numerical designation assigned to each section of pipe in a utility system (e.g., water, gas, sewer), interconnected by
water system pipe length	pipe_lgth		R		The length of pipe, measured from node to node along the pipe centerline .
water system pump identifier	watpump_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system pumping station identifier	watstat_id		C	20	Foreign Key. Used to link the record to an associated station (pump station, pressure reducing station).
water system rectifier identifier	watrect_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system regulator identifier	watreg_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
water system section identifier	watsect_id		C	20	Foreign Key. Used to link the record to an associated pipe or cable section.
water system source identifier	watsrce_id		C	20	Foreign Key. An operator generated identifier identifying name or number of the water source.
water system tank high pressure	press_high		D		The preset high, or maximum, operating pressure setting of a tank. For a hydropneumatic (i.e., pressure) type tank this is the setting at which all pumps supplying water to the tank, and all air compressors supplying compressed air to the tank, are off.
water system tank identifier	wattank_id		C	20	Foreign Key. An operator generated identifier used to locally identify the subject item.
water system treatment plant identifier	watplnt_id		C	20	Foreign Key. The site specific unique indentification name or number of the treatment plant.
water system valve identifier	watvlv_id		C	20	Foreign Key. The unique site specific identification name or number of a valve associated with or connected to the subject item.
water system zone identifier	watzone_id		C	20	Foreign Key. Used to link the record to the appropriate utility management zone.

Utilities (Attributes)

ATTRIBUTE NAME	ATTRIBUTE CODE	DOMAIN NAME	DATA TYPE	CHAR LENGTH	DEFINITION
water vent identifier	watvent_id		C	20	Primary Key. A unique, user defined identifier for each record or instance of an entity.
weight units of measure	weight_u_d	unit of measure - weight	C	16	The unit of measure for weight.
weir elevation	weir_elv		D		Elevation of the weir invert.
weir identifier	weir_id		C	20	Foreign Key. An operator generated identifier used to locally refence a weir.
weir outlet	wer_outl_d	value list - boolean	C	16	An indicator as to whether or not the subject item has weir outlets. (yes or no)
wet well capacity	wetwlcpcty		D		The wet well capacity.
winding configuration type	wind_ty_d	type list - winding connection	C	16	A label representing the configuration of the stator winding connections.
wire size	wire_siz_d	dimension list - electric cable	C	16	The AWG size designation for the wire connecting the anode/anode packet to the anode test station.
wire type	wire_typ_d	type list - electric cable	C	16	The conductor configuration, typically solid or stranded.
zone pressure	press_zone		R		The normal operating pressure for the zone, typically in feet of water.