

**SANGIS.drain\_conveyance****Description:** Storm Drain Conveyance**Datum:** NAD83**Zone:** VI**Source:** Storm Water Department**Extent:** City of San Diego**Feature Type:** Polyline**Projection:** California State Plane**Units:** feet**Positional Accuracy:** +/- 10 feet

Alias	Field Name	Type	Length or Precision/Scale	Description
OBJECTID_1 (chg to OBJECTID)	OBJECTID_1 (chg to OBJECTID)	Object ID		DBMS ID
DRAIN (chg to Drain Conveyance ID)	DRAIN	Double (chg to Long Integer)	10/0 (chg to 8)	Drain Pipe ID (unique value) (ie. 12345)
LINK	LINK (Removed)	Long Integer	5	Equipment Object Link ID for SAP system (Redundant with DRAIN field)
GIS ID	GISID (New)	Text	10	GIS ID (ie. DC012345)
Equipment ID	EQPID (New)	Text	9	Equipment No for SAP system
SAPID	SAPID	Text	10	Equipment Pipe/Material Object for SAP system
FNODE_ (chg to From Drain Structure ID)	FNODE_	Double (chg to Long Integer)	11/0 (chg to 8)	Drain Structure ID for infrastructure at flow beginning of pipe (typically upstream) (ie. 12345)
TNODE_ (chg to To Drain Structure ID)	TNODE_	Double (chg to Long Integer)	11/0 (chg to 8)	Drain Structure ID for infrastructure at flow end of pipe (typically downstream) (ie. 12346)
FROM_DRAIN	FROM_DRAIN (Removed)	Text	10	From Drain Structure SAP Equipment ID (ie. 80000001) (Redundant with FNODE_ field)
TO_DRAIN	TO_DRAIN (Removed)	Text	10	To Drain Structure SAP Equipment ID (ie. 80000002) (Redundant with TNODE_ field)
CODE (chg to Drain Conveyance Type)	CODE	Text	1	Type: Domain: ConvType B Ditch C Channel D Storm Drain E Encased Storm Drain F Forced Storm Drain U Underdrain X Culvert
DIAMETER (chg to Diameter)	DIAMETER	Double	11/2	Diameter of Drain Pipe (inches)
BOX_WIDTH (chg to Width)	BOX_WIDTH (chg to WIDTH)	Double	9/2	Box , bottom channel, top ditch, horizontal elliptical width(inches)
BOX_HEIGHT (chg to Height)	BOX_HEIGHT (chg to HEIGHT)	Double	9/2	Box, channel, vertical elliptical height (inches)

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ACT_LENGTH	ACT_LENGTH	Double	12/2 (chg to 8/2)	Length of Drain Pipe based on As-built drawing (feet)
MATERIAL	MATERIAL	Text	5 (chg to 10)	<p>Type of Material of Drain Pipe</p> <p><b>Domain: ConvMaterial</b></p> <p>ABM Air Blown Mortar</p> <p>ABS Acrylonitrile-butadiene-styrene composite</p> <p>ACP Asbestos-cement pipe</p> <p><b>AL Aluminum (NEW)</b></p> <p>ASPCN Asphalt concrete</p> <p>ASPH Asphalt</p> <p>CAP Corrugated aluminum pipe</p> <p><del>CAPA Corrugated aluminum pipe arch (CAP w/ ConvShape –Arch)</del></p> <p>CASP (chg to CAS) Corrugated aluminum steel pipe</p> <p>CIPCP Cast-in-place concrete pipe</p> <p>CMP Corrugated metal pipe</p> <p><del>CMPAE Corrugated metal pipe arch (CMPA w/ ConvShape –Arch)</del></p> <p>CMPB Corrugated metal pipe asbestos bonded</p> <p>CMPC Corrugated metal pipe bituminous coated (dipped)</p> <p><del>CMPCE Corrugated metal pipe bituminous coated elliptical (CMPC w/ ConvShape –Elliptical)</del></p> <p><del>CMPE Corrugated metal pipe elliptical (CMP w/ ConvShape –Elliptical)</del></p> <p><del>CMPCL Corrugated metal pipe bituminous coated and lined (CMPC)</del></p> <p><del>CMPPI Corrugated metal pipe paved invert (CMP w/ ConvShape –Paved Invert)</del></p> <p><del>CMPPL Corrugated metal pipe fully bituminous coated (CMP)</del></p> <p>CONC Concrete</p> <p><del>CP Concrete Pipe (does not specify what kind)</del></p> <p><del>CPCAE Corrugated metal pipe bituminous coated arch elliptical (CMP w/ ConvShape –Arch)</del></p> <p><b>CPEP Corrugated Polyethylene Pipe (NEW)</b></p> <p>CSP Corrugated steel pipe</p> <p>EARTH Earth or dirt</p> <p>GRASS Grass lined</p> <p>GRAVL Gravel</p> <p>GUNIT Gunite</p> <p><b>HDPE High density polyethylene (NEW)</b></p> <p><b>IP Iron pipe (NEW)</b></p> <p><b>MASONRY Masonry (NEW)</b></p> <p>PACP Perforated asbestos-cement pipe</p> <p>PAP Perforated aluminum pipe</p> <p><del>PCC Not yet known</del></p> <p>PCLP Perforated clay pipe</p> <p><b>PEP Polyethylene Pipe (NEW)</b></p> <p>PP Plastic Pipe</p> <p>PPVCP Perforate polyvinyl chloride pipe</p> <p>PVCP Polyvinyl chloride pipe</p> <p><b>RC Reinforced concrete (NEW)</b></p> <p><del>RCA Reinforced concrete arch (RCP w/ ConvShape –Arch)</del></p> <p><del>RCB Reinforced concrete box (RC w/ ConvShape –Box)</del></p> <p>RCP Reinforced concrete pipe</p> <p><del>RCPA Reinforced concrete pipe arch (RCP w/ ConvShape –Arch)</del></p> <p>ROCK Rock</p> <p>ROCKBS Rock – both sides</p> <p>ROCKOS Rock – one side only</p> <p>SAND Sand (more absorbant than regular earth)</p> <p>SCMP Slotted corrugated metal pipe</p> <p>SPRIB Spiral RIB</p> <p><del>SSPA Structural steel plate arch (SSPP w/ ConvShape –Arch)</del></p> <p>SSPP Structural steel plate pipe</p> <p><del>SSPPA Structural steel plate pipe arch (SSPP w/ ConvShape –Arch)</del></p> <p>TECHT Techite</p> <p>UNK Unknown Material</p> <p>VCP Vitrified clay pipe</p>

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Conveyance Shape	CONV_SHP (New)	Text	1	Conveyance Cross Sectional Shape Domain:ConvShape A Arch E Elliptical N Natural B Box C Circular T Trapezoidal R Triangular P Paved Invert
FROM_ELEV (chg to From Elevation)	FROM_ELEV	Double	12/2	Invert elevation value for flow beginning of pipe (typically upstream) (feet)
TO_ELEV (chg to To Elevation)	TO_ELEV	Double	12/2	Invert elevation value for flow end of pipe (typically upstream) (feet)
LINED (chg to Lined)	LINED	Text	1	Lined Drain Pipe Domain:YesNo Y Yes N No
SLOPE (chg to Slope)	SLOPE	Double	10/2	Slope of Drain Conveyance (percentage)
ERA	ERA	Text	25	Encroachment Removal Agreement No
Easement Description	EASEMENT (New)	Text	60	Drainage Easement (free text) (ie 10' DRAINAGE EASEMENT)
INSTALL_YE	INSTALL_YE	Date		Installation date of Drain Pipe
As-Built Date	ASBUILT_DATE	Date		As-built date of infrastructure
DRAWING_NO (chg to As-built Drawing No)	DRAWING_NO	Text	11 (chg to 30)	Drawing number of As-built (ie 18811-6-D)
Easement Drawing No	EASEMENT_DWG (New)	Text	30	Easement Drawing No (ie 12345-B)
Subdivision Map No	SUBDIV_DWG (New)	Text	30	Subdivision Drawing No (ie 12345-S)
WORK_ORDER	WORK_ORDER	Text	10	Work Order number of As-built drawing
Status	STATUS (New)	Text	1	Status Code Domain:Status A Active I Inactive W Warranty P Warranty Pending V Vacated R Removed X Abandoned U Unknown
COMMENTS (chg to Comment)	COMMENTS	Text	20 (chg to 100)	Comments
OWNER	OWNER	Text	1	Owner Domain: Owner A Port Authority C Caltrans N Navy M Military O Other P Private S City of San Diego U Unknown
OWNER_ID	OWNER_ID (Removed)	Text	10	Owner SAP Partner ID (Redundant with OWNER field)
Maintained By	MAINT (New)	Text	1	Maintained by Domain: MaintBy A Port Authority

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				<p>C Caltrans  M Military  O Other  P Private  S City of San Diego  T SD County  U Unknown  1 City of San Diego, Street Division  2 City of San Diego, Park &amp; Rec  3 City of San Diego, Metro Wastewater  4 City of San Diego, Water  5 City of San Diego, Real Estate Assets  6 City of San Diego, Storm Water</p>
LENGTH	LENGTH (Removed)	Double	17/4	GIS Length (Residual from shapefile provided to SanGIS)
FLOW_DIR	FLOW_DIR (Removed)	Text	5	Flow direction of Drain Pipe No Domain N North S South E East W West NW Northwest NE Northeast SW Southwest SE Southeast (Denoted by digitization)
WT_JOINTS	WT_JOINTS (Removed)	Text	1	Water Tight Joints No Domain Y Yes N No (No longer needed)
OBJECTID	OBJECTID (Removed)	Object ID	10	DBMS ID (Residual from shapefile provided to SanGIS)
SHP_ID_LEN	SHP_ID_LEN (Removed)	Double	38/8	Unknown (Residual from shapefile provided to SanGIS)
Roughness	ROUGHNESS (New)	Float	5/3	Roughness coefficient (To be used in the future)
Name	NAME (New)	Text	40	Channel Name
Location Description	LOC_DESC (New)	Text	40	Location Description
Watershed	WATERSHED (New)	Short Integer	1	Watershed Domain: Watershed 1 Mission Bay 2 Penasquitos 3 San Diego Bay 4 San Diego River 5 San Dieguito 6 Tijuana River
Shape	SHAPE	Geometry		Shape Properties
SHAPE.LEN (chg to GIS Length)	SHAPE.LEN	Double		