

Entity and Attribute Definitions Report

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Total Pages: 56
Total Entities: 53

Parameters

<i>Application:</i>	CBR
<i>Entities:</i>	%
<i>ER Diagram:</i>	%
<i>Include Entity Notes?</i>	Y
<i>Include Attribute Descriptions?</i>	Y
<i>Include Attribute Notes?</i>	Y
<i>Include Attribute Values?</i>	Y
<i>Include Table of Contents?</i>	N
<i>Include Index of Entities?</i>	Y

Entity Name: ABUTMENT CODE**Short Name:** AC**Plural:** ABUTMENT CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for abutments. An abutment is the vertical support at the end of a bridge. Left and Right End are determined facing downstream. An abutment can be Bin Wall, Concrete Cask-in Place, Concrete Precast, Crib, Log, Timber, Other, Pile (Permanent or Temporary Materials), Sill (Permanent or Temporary Materials), Steel Pipe Precast Pad or Concrete Lock Blocks.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ABUTMENT CODE		N	VARCHAR2	10
Code representing an abutment.				
DESCRIPTION		N	VARCHAR2	120
Text describing an abutment code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid abutment.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used a valid abutment.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE shows left end abutment of one or more FOREST SERVICE BRIDGE

MAY BE shows right end abutment of one or more FOREST SERVICE BRIDGE

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

ALEC Primary Y

ABUTMENT CODE

Entity Name: BULLETIN**Short Name:** BLTN**Plural:** BULLETIN**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains a main bulletin for an application. When a user enters the application the bulletin data will be displayed (if present).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* BULLETIN IDENTIFIER A unique identifier for the bulletin.		N NUMBER	10
DESCRIPTION Text describing the bulletin which will be displayed to the user when they enter the application.		N VARCHAR2	2000
ENTRY USERID The user who first entered the data.		N VARCHAR2	30
ENTRY TIMESTAMP The date/time the data was first entered.		N DATE	
UPDATE USERID The user who last updated the data.		N VARCHAR2	30
UPDATE TIMESTAMP The date/time the data was last updated.		N DATE	

* = Attributes in primary unique identifier.

Unique Identifiers:

BLTN *Primary* *Y*

BULLETIN IDENTIFIER

Entity Name: CLIENT LOCATION*Short Name:* CL*Plural:* CLIENT LOCATION*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* CLIENT NUMBER		N VARCHAR2	8
* CLIENT LOCN CODE		N VARCHAR2	2

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE is primary user of one or more CROSSING STRUCTURE

MUST BE part of one and only one FOREST CLIENT

* = Relationships in primary unique identifier.

Unique Identifiers:

CL Primary Y

CLIENT NUMBER

CLIENT LOCN CODE

Entity Name: CROSSING SITE**Short Name:** CS**Plural:** CROSSING SITE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains information about a site where bridge or culvert structures are located.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CROSSING SITE IDENTIFIER		N	VARCHAR2	14
Unique identifier for the physical site where a structure will be installed. Structure number and site number will usually be the same except in the case of portables.				
CROSSING NAME		Y	VARCHAR2	255
Common name of crossing. Normally this would be a creek or river name.				
POINT OF COMMENCEMENT DISTANCE		Y	NUMBER	8,2
Distance in kilometres (km) from the PoC (point of commencement) to the road section or system.				
USER KILOMETRES		Y	NUMBER	8,2
The posted distance (relative to a sign), may vary from the Point of Commencement Distance which should be the current measured distance from the start of the road. User km can also be difference because often licensees are marking "km" from the paved highway or mill.				
LONGITUDE		Y	NUMBER	9,6
A global designation for the relative distance east or west from the Greenwich meridian (measured in decimal degrees).				
LATITUDE		Y	NUMBER	8,6
A global designation for the relative distance north or south from the equator (measured in decimal degrees).				
UTM ZONE		Y	NUMBER	2
Universal Transverse Mercator (UTM) Zone. Usually captured with GPS.				
UTM EASTING		Y	NUMBER	10
The Universal Transverse Mercator (UTM) location reference for the site. This is the Easting reference (metres east of the Central Meridian of the zone).				
UTM NORTHING		Y	NUMBER	10
The Universal Transverse Mercator (UTM) location reference. This is the Northing reference (metres north of the Equator).				
CLOSE PROXIMITY INDICATOR		N	VARCHAR2	1
Indicates if close proximity inspections are required. A close proximity inspection is a much more detailed inspection that will result in a hard copy report by a Professional Engineer that is unique to each inspection (i.e., won't fit onto a standard inspection report).				
POINT OF ACCESS DESCRIPTION		Y	VARCHAR2	255
This is a comment field which contains directions on how to get to the road system (i.e., "Helicopter required to get to cove").				
NTS MAP SHEET NUMBER		Y	VARCHAR2	10
National Topographic Service (NTS) 1:50,000 map sheet number, e.g. 92P/10. 1:50,000 is one of the scales of base maps available.				
TRIM MAP SHEET NUMBER		Y	VARCHAR2	10
Identifier of the TRIM map sheet (1:20,000). TRIM stands for Terrain Resource Information Management. TRIM maps are the standard base maps used in BC.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				

Entity Name: CROSSING SITE (cont'd)	Short Name:	CS
UPDATE USERID The user who last updated the data.	N VARCHAR2	30
UPDATE TIMESTAMP The date/time the data was last updated.	N DATE	
* = Attributes in primary unique identifier.		

Relationships:Each Occurrence Of This Entity:

MAY BE has status one and only one CROSSING SITE STATUS CODE

MAY BE holds one or more CROSSING STRUCTURE

MAY BE belongs in one and only one ORG UNIT

MAY BE has business area defined by one and only one ORG UNIT

MAY BE is managed by one and only one ORG UNIT

MAY BE connected to one and only one ROAD SEGMENT

MAY BE needs one and only one SPECIAL ACCESS REQUIREMENT CODE

MAY BE requires one and only one SPECIAL EQUIPMENT REQUIREMENT CODE

MAY BE has inspection status one and only one STRUCTURE INSPECTION STATUS CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

SITE Primary Y

CROSSING SITE IDENTIFIER

Entity Name: CROSSING SITE STATUS CODE**Short Name:** CSSC**Plural:** CROSSING SITE STATUS CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for site statuses. This determines the current status of the site which may be Active, Transferred, Barricaded or De-activated/Removed.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CROSSING SITE STATUS CODE		N	VARCHAR2	10
Code representing a crossing site status.				
DESCRIPTION		N	VARCHAR2	120
Text describing a crossing site status code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid stie status.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid site status.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows site status one or more CROSSING SITE

* = Relationships in primary unique identifier.

Unique Identifiers:

SSC Primary Y

CROSSING SITE STATUS CODE

Entity Name: CROSSING STRUCTURE*Short Name:*

CRS

Plural: CROSSING STRUCTURE*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:**

Contains information about a structure regardless of what type.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CROSSING STRUCTURE IDENTIFIER		N	VARCHAR2	14
Unique identifier assigned to each structure.				
DESIGN LOAD RATING		Y	NUMBER	6
The capacity (i.e., the amount of weight in tons that a bridge can carry) of the bridge superstructure when it was first constructed.				
LOAD RATING		Y	NUMBER	6
The present capacity of the structure (measured in tonnes).				
INSTALLATION COST		Y	NUMBER	6
The cost of installation (i.e., labour) used in the construction of a structure.				
MATERIAL COST		Y	NUMBER	6
The cost of components used in the construction of a structure.				
YEAR BUILT		Y	NUMBER	4
The year that the construction of a structure is completed.				
INVENTORY ADDED YEAR		Y	NUMBER	4
The year that the construction was inherited or found and was recorded as part of the Ministry's inventory.				
AS BUILT INFORMATION PRESENT INDICATOR		N	VARCHAR2	1
This flag identifies if the as-built information is part of the structure record.				
ESTIMATED CLOSURE DATE		Y	NUMBER	4
Estimated date when structure will be required to be closed (i.e., made inactive) and is usually a few years beyond the light traffic replacement date. This is when a bridge can no longer carry light traffic, such as pick-ups, safely. Determined at time of each inspection.				
ORIGINAL REPLACEMENT DATE		Y	NUMBER	4
The replacement date of the structure as determined at the time of acquisition or construction.				
ESTIMATED REPLACEMENT COST		Y	NUMBER	8
Estimated cost to replace structure. Determined at time of original construction as well as from inspection to inspection.				
ESTIMATED REPLACEMENT COST COMMENT		Y	VARCHAR2	2000
A comment field which contains the rationale for the basis of the value input for estimated replacement cost.				
LIGHT VEHICLE TRAFFIC REPLACEMENT DATE		Y	NUMBER	4
Replacement date to accommodate no less than 5 ton structures. The original date is determined once at time of construction. This date usually remains except when a structure is at the end of its design life where the replacement date may be extended (or shortened) from inspection to inspection based on an assessment of the actual bridge condition.				
FULL LOG HAUL TRAFFIC REPLACEMENT DATE		Y	NUMBER	4
Replacement date to accommodate full industrial use. The original date is determined once at time of construction. This date usually remains except when a structure is at the end of its design life where the replacement date may be extended (or shortened) from inspection to inspection based on an assessment of the actual bridge condition.				

Entity Name: CROSSING STRUCTURE (cont'd)	Short Name:	CRS
PORTABLE STRUCTURE INDICATOR Indicates if the structure was designed to be easily moved from site to site.	N VARCHAR2	1
NEXT PLANNED INSPECTION DATE Projected date for the next planned inspection for the structure.	Y DATE	
NEXT PLANNED INSPECTION COMMENT Comments relating to the next planned inspection date.	Y VARCHAR2	2000
COMMENT Comment field which will contain details of issues related to the structure.	Y VARCHAR2	2000
DESIGN VEHICLE COMMENT Comment field which will be entered if the DESIGN VEHICLE CD attribute is set to the code corresponding to 'Other'. This allows the user to enter additional details.	Y VARCHAR2	2000
ACTIVE INDICATOR Determines if the current structure is active or not.	N VARCHAR2	1
ENTRY USERID The user who initially created the data.	N VARCHAR2	30
ENTRY TIMESTAMP The date/time the data was first created.	N DATE	
UPDATE USERID The user who last updated the data.	N VARCHAR2	30
UPDATE TIMESTAMP The date/time the data was last updated.	N DATE	

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE is a one and only one FOREST SERVICE BRIDGE
 or MAY BE is a one and only one FOREST SERVICE CULVERT
 MAY BE was built by one and only one BUILT BY CODE
 MAY BE has primary user one and only one CLIENT LOCATION
 MAY BE found at one and only one CROSSING SITE
 MAY BE has one or more CROSSING STRUCTURE FILE DETAIL
 MAY BE had design load rating identified using one and only one DESIGN VEHICLE CD
 MAY BE is inspected through one or more STRUCTURE INSPECTION
 MAY BE recommends one or more STRUCTURE MONITOR ITEMS
 MAY BE completes one or more STRUCTURE REPAIR
 MAY BE replaced by one or more STRUCTURE REPLACEMENT XREF
 MAY BE replaces one or more STRUCTURE REPLACEMENT XREF
 MAY BE has one and only one STRUCTURE SOURCE CODE
 MUST BE identified as one and only one STRUCTURE TYPE CLASS CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

STRCT Primary Y

CROSSING STRUCTURE IDENTIFIER

Entity Name: CROSSING STRUCTURE FILE*Short Name:* CSF*Plural:* CROSSING STRUCTURE FILE*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:**

This entity contains the actual files that have been uploaded through the application.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
STRUCTURE FILE		N IMAGE	

A file that has been uploaded.

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

* MUST BE contains details for one and only one CROSSING STRUCTURE FILE DETAIL

* = Relationships in primary unique identifier.

Unique Identifiers:

CSFD *Primary* *Y*

MUST BE contains details for one and only one CROSSING STRUCTURE FILE DETAIL

Entity Name: CROSSING STRUCTURE FILE DETAIL**Short Name:** CSFD**Plural:** CROSSING STRUCTURE FILE DETAIL**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains uploaded files and their associated information.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FILE IDENTIFIER		N	NUMBER	10
A unique identifier for an uploaded file.				
FILENAME		N	VARCHAR2	255
The filename of the uploaded file.				
FILE CREATE DATE		N	DATE	
The date the file was originally created.				
DESCRIPTION		Y	VARCHAR2	2000
A business description of the uploaded file.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE belongs to one and only one CROSSING STRUCTURE

MUST BE contains file for one and only one CROSSING STRUCTURE FILE

MUST BE has a one and only one FILE ATTACHMENT TYPE CODE

MUST BE has one and only one FILE MIME TYPE XREF

MAY BE belongs to one and only one STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

FILE Primary Y

FILE IDENTIFIER

Entity Name: DECK TYPE CODE**Short Name:** DTC**Plural:** DECK TYPE CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for types of deck. Decks can be composed of Concrete Composite, Concrete, Concrete Removable, Gravel, Steel, Timber (Untreated/Treated/Untreated Panels/Treated Panels), Steel Free and Other. Concrete slab girders have no deck.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* DECK TYPE CODE Code representing a type of deck.		N VARCHAR2	10
DESCRIPTION Text describing a deck type code.		N VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid deck type.		N DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid deck type.		N DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows type of deck of one or more FOREST SERVICE BRIDGE

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

DTC Primary Y

DECK TYPE CODE

Entity Name: DESIGN VEHICLE CD**Short Name:** DVC**Plural:** DESIGN VEHICLE CD**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for design vehicle configurations (the type of vehicle for which the structure design load rating is applicable). This value identifies what vehicle configuration was used when the initial structure was designed (such as Off Highway [L100] or On Highway [L75]).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* DESIGN VEHICLE CD		N VARCHAR2	10
Code representing a vehicle configuration used during structure design.			
DESCRIPTION		N VARCHAR2	120
Text describing a design vehicle code.			
EFFECTIVE DATE		N DATE	
The date the data is effective and available to be used as a valid design vehicle configuration.			
EXPIRY DATE		N DATE	
The date the data expires and can no longer be used as a valid vehicle design configuration.			
UPDATE TIMESTAMP		N DATE	
The date and time the content was last updated.			
* = Attributes in primary unique identifier.			

Relationships:Each Occurrence Of This Entity:

MAY BE defines vehicle design configuration for one or more CROSSING STRUCTURE

* = Relationships in primary unique identifier.

Unique Identifiers:

DVC Primary Y

DESIGN VEHICLE CD

Entity Name: ENGINEERED CULVERT MATERIAL COD**Short Name:** ECMC**Plural:** ENGINEERED CULVERT MATERIAL CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for culvert materials. Culvert materials can be Corrugated Steel, Steel (non-corrugated), Concrete, Log or Other.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* ENGINEERED CULVERT MATERIAL CODE Code representing a type of culvert material.		N VARCHAR2	10
DESCRIPTION Text describing a culvert material code.		N VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as valid culvert material.		N DATE	
EXPIRY DATE The date the data expires and can no longer be used as valid culvert material.		N DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE makes up a one or more FOREST SERVICE CULVERT

* = Relationships in primary unique identifier.

Unique Identifiers:

CMC Primary Y

ENGINEERED CULVERT MATERIAL CODE

Entity Name: ENGINEERED CULVERT TYPE CODE**Short Name:** ECTC**Plural:** ENGINEERED CULVERT TYPE CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for culvert types. A culvert can be Round, Elliptical, Box or Open Bottom.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ENGINEERED CULVERT TYPE CODE Code representing a type of culvert.		N	VARCHAR2	10
DESCRIPTION Text describing a culvert type code.		N	VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid culvert type.		N	DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid culvert type.		N	DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N	DATE	

* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

MAY BE shows type of one or more FOREST SERVICE CULVERT

* = Relationships in primary unique identifier.

Unique Identifiers:

CTC Primary Y

ENGINEERED CULVERT TYPE CODE

Entity Name: FILE ATTACHMENT TYPE CODE**Short Name:** FATC**Plural:** FILE ATTACHMENT TYPE CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains code and descriptions for file attachment types. A file attachment type describes a feature or component of the file uploaded. It can be an Upstream Approach, Downstream Approach, Bush Approach, Town Approach, Abutments (Left Bank), Abutments (Right Bank) or Other.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* FILE ATTACHMENT TYPE CODE		N VARCHAR2	10
Code representing a type of file attachment.			
DESCRIPTION		N VARCHAR2	120
Text describing a file attachment type code. It describes a feature or component of the file uploaded.			
EFFECTIVE DATE		N DATE	
The date the data is effective and available as a valid file attachment type.			
EXPIRY DATE		N DATE	
The date the data expires and can no longer be used as a valid file attachment type.			
UPDATE TIMESTAMP		N DATE	
The date and time the content was last updated.			
* = Attributes in primary unique identifier.			

Relationships:Each Occurrence Of This Entity:

MAY BE describes a feature or component one or more CROSSING STRUCTURE FILE DETAIL

* = Relationships in primary unique identifier.

Unique Identifiers:

FATC Primary Y
 FILE ATTACHMENT TYPE CODE

Entity Name: FILE MIME TYPE CODE**Short Name:** FMTC**Plural:** FILE MIME TYPE CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for mime types. This allows the application to open files appropriately. Valid mime types include 'application/msword' (for Word documents), 'application/pdf' (for PDF documents).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FILE MIME TYPE CODE		N	VARCHAR2	10
Code representing a mime type.				
DESCRIPTION		N	VARCHAR2	120
Text describing a mime type code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid mime type.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid mime type.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE makes up one or more FILE MIME TYPE XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

MTC Primary Y

FILE MIME TYPE CODE

Entity Name: FILE MIME TYPE XREF**Short Name:** FMTX**Plural:** FILE MIME TYPE XREF**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Cross reference table which relates a type of a file to a specific mime type.

Attributes:NameDomainOpt FormatLength

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE show file and mime type of one or more CROSSING STRUCTURE FILE DETAIL

* MUST BE contains one and only one EFILE EXTENSION CD

* MUST BE contains one and only one FILE MIME TYPE CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

FMTX

Primary Y

MUST BE contains one and only one FILE MIME TYPE CODE

MUST BE contains one and only one EFILE EXTENSION CD

Entity Name: FOREST CLIENT*Short Name:* FC*Plural:* FOREST CLIENT*Init. Volume:* *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:***Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CLIENT NUMBER		N	VARCHAR2	8

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE has a one or more CLIENT LOCATION

* = Relationships in primary unique identifier.

Unique Identifiers:

FC Primary Y

CLIENT NUMBER

Entity Name: FOREST SERVICE BRIDGE**Short Name:** FSB**Plural:** FOREST SERVICE BRIDGE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains information specific to a bridge structure.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST SERVICE BRIDGE IDENTIFIER		N	NUMBER	10
Unique identifier generated for each bridge.				
TOTAL BRIDGE LENGTH		Y	NUMBER	6,1
Length from one bridge end to the other end measured at bridge deck at center line. Measured in metres.				
DECK WIDTH		Y	NUMBER	7,2
Minimum available running surface (i.e., the bridge deck that is driven on between curbs). Measured in metres.				
PORTABLE SUPERSTRUCTURE LOCATION DETAILS		Y	VARCHAR2	2000
Comments related to the location of the portable superstructure.				
DECK TYPE COMMENT		Y	VARCHAR2	2000
Holds any additional information about the structure deck type.				
ABUTMENT COMMENT		Y	VARCHAR2	2000
Holds any additional information about the structure abutments.				
SUPERSTRUCTURE COMMENT		Y	VARCHAR2	2000
Holds any additional information required about the structure superstructure.				
NEEDLE BEAM INDICATOR		N	VARCHAR2	1
Identifies if the bridge has needle beams. A needle beam is a log placed under the stringers at midspan in the transverse direction in order to distribute vehicle loads to structural curbs.				

* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

MAY BE has a left abutment of one and only one ABUTMENT CODE

MAY BE has a right abutment of one and only one ABUTMENT CODE

MUST BE is a type of one and only one CROSSING STRUCTURE

MAY BE a type of one and only one DECK TYPE CODE

MAY BE contains one or more FOREST SERVICE BRIDGE PIER

MUST BE contains one or more FOREST SERVICE BRIDGE SPAN

MAY BE stored at one and only one ORG UNIT

MAY BE a type of one and only one PORTABLE SUPERSTRUCTURE STATUS CODE

MAY BE has a type of one and only one RUNNING SURFACE CODE

MAY BE a type of one and only one SUPERSTRUCTURE TYPE CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

BDGE Primary Y

FOREST SERVICE BRIDGE IDENTIFIER

Entity Name: FOREST SERVICE BRIDGE PIER**Short Name:** FSBPR**Plural:** FOREST SERVICE BRIDGE PIER**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

A pier is an intermediate vertical support (between abutments) for superstructure spans. A bridge will have multiple piers when it has more than one span.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST SERVICE BRIDGE PIER IDENTIFIER		N	NUMBER	10
Unique identifier generated for each span.				
PIER NUMBER		N	NUMBER	10
Sequential number starting at one for each pier for a bridge.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				
* = Attributes in primary unique identifier.				

Relationships:**Each Occurrence Of This Entity:**

MUST BE is part of one and only one FOREST SERVICE BRIDGE

MUST BE has a one and only one PIER TYPE CODE

MAY BE is inspected through one or more STRUCTURE INSPECTION ITEM

* = Relationships in primary unique identifier.

Unique Identifiers:

PIER_NUMBER Primary N

PIER NUMBER

MUST BE is part of one and only one FOREST SERVICE BRIDGE

PR Primary Y

FOREST SERVICE BRIDGE PIER IDENTIFIER

Entity Name: FOREST SERVICE BRIDGE SPAN**Short Name:** FSBS**Plural:** FOREST SERVICE BRIDGE SPAN**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

A span is a minimum available running surface between curbs.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST SERVICE BRIDGE SPAN IDENTIFIER		N	NUMBER	10
Unique identifier generated for each span.				
SPAN LENGTH		N	NUMBER	6,1
Length from center of bearing to center of bearing. Measured in metres.				
SPAN NUMBER		N	NUMBER	5
Sequential number starting at one for each span for a bridge.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE is part of one and only one FOREST SERVICE BRIDGE

MAY BE is inspected through one or more STRUCTURE INSPECTION ITEM

* = Relationships in primary unique identifier.

Unique Identifiers:

SPAN_NUMBER Primary N

SPAN NUMBER

MUST BE is part of one and only one FOREST SERVICE BRIDGE

SPAN Primary Y

FOREST SERVICE BRIDGE SPAN IDENTIFIER

Entity Name: FOREST SERVICE CULVERT**Short Name:** FSC**Plural:** FOREST SERVICE CULVERT**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains information specific to a culvert structure.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST SERVICE CULVERT IDENTIFIER		N	NUMBER	10
Unique identifier generated for a culvert.				
CULVERT NUMBER		Y	NUMBER	5
Identifies where the culvert is starting from the left bank. I.e., culvert number one is the closest to the left bank.				
CULVERT LENGTH		Y	NUMBER	6,1
Length of a culvert along the direction of the watercourse (i.e., the direction the water is flowing). Measured in metres.				
SLOPE		Y	NUMBER	4,1
The slope of culvert expressed as a percentage (rise over run ratio).				
INLET COVER DEPTH		Y	NUMBER	10
The depth of soil fill over upstream end of the culvert at the edge of the road surface. Measured in millimetres.				
OUTLET COVER DEPTH		Y	NUMBER	10
The depth of soil fill over the downstream end of the culvert at the edge of the road surface. Measured in millimetres.				
OPENING HEIGHT		Y	NUMBER	10
The height from the base of the culvert to the inside top (measured vertically). Measured in millimetres.				
OPENING WIDTH		Y	NUMBER	10
Inside wall to wall distance of a culvert (measured horizontally). Measured in millimetres.				
CULVERT MATERIAL COMMENT		Y	VARCHAR2	2000
Holds any additional information required about the structure culvert material.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE is a type of one and only one CROSSING STRUCTURE

MAY BE made up of one and only one ENGINEERED CULVERT MATERIAL CODE

MAY BE has a one and only one ENGINEERED CULVERT TYPE CODE

MAY BE has a one and only one HEADWALL LOCATION CODE

MAY BE made up of one and only one OPEN BOTTOM CULVERT SUBSTRUCTURE CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

CLVRT Primary Y

FOREST SERVICE CULVERT IDENTIFIER

Entity Name: INSPECTION REPORT STATUS CODE**Short Name:** IRSC**Plural:** INSPECTION REPORT STATUS CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for inspection report statuses. An inspection report can either be In Progress, Submitted, Accepted or Rejected.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* INSPECTION REPORT STATUS CODE Code representing an inspection report status.		N VARCHAR2	10
DESCRIPTION Text describing an inspection report status code.		N VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid inspection report status.		N DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid inspection report status.		N DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows status of one or more STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

IRSC Primary Y

INSPECTION REPORT STATUS CODE

Entity Name: MONITORING STATUS CODE**Short Name:** MSC**Plural:** MONITORING STATUS CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for monitoring statuses. The status for a monitor can either be Recommended or Not Required.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MONITORING STATUS CODE		N	VARCHAR2	10
Code representing a monitoring status.				
DESCRIPTION		N	VARCHAR2	120
Text describing a monitoring status code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid monitoring status.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid monitoring status.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows monitoring status of one or more STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

MSC Primary Y

MONITORING STATUS CODE

Entity Name: OPEN BOTTOM CULVERT SUBSTRUCTUI**Short Name:** OBCSC**Plural:** OPEN BOTTOM CULVERT SUBSTRUCTURE CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for types of materials that the foundation of an open bottom culvert is composed of. For example, Piles, Lock-block Footing, Cast in Place Concrete Footing and Steel Footing.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* OPEN BOTTOM CULVERT SUBSTRUCTURE CODE		N VARCHAR2	10
Code representing a type of material for the foundation of an open bottom culvert.			
DESCRIPTION		N VARCHAR2	120
Text describing an open bottom culvert substructure code.			
EFFECTIVE DATE		N DATE	
The date the data is effective and available as a valid type of material for the foundation of an open bottom culvert			
EXPIRY DATE		N DATE	
The date the data expires and can no longer be used as a valid type of material for the foundation of an open bottom culvert.			
UPDATE TIMESTAMP		N DATE	
The date and time the content was last updated.			

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE describe a one or more FOREST SERVICE CULVERT

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

OBCSC Primary Y

OPEN BOTTOM CULVERT SUBSTRUCTURE CODE

Entity Name: ORG UNIT*Short Name:* OU*Plural:* ORG UNIT*Init. Volume:* *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:***Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ORG UNIT NUMBER		N	NUMBER	10

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE is business area of one or more CROSSING SITE

MAY BE is forest district of one or more CROSSING SITE

MAY BE manages one or more CROSSING SITE

MAY BE stores one or more FOREST SERVICE BRIDGE

* = Relationships in primary unique identifier.

Unique Identifiers:OU *Primary* *Y*

ORG UNIT NUMBER

Entity Name: PIER TYPE CODE**Short Name:** PTC**Plural:** PIER TYPE CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for pier types. A pier type describes the material that a pier is composed of. A pier is an intermediate vertical support (between abutments) for superstructure spans. A pier could be a Steel Column on Concrete Pad, Piles (Timber Treated or Untreated), Piles (Concrete), Crib (Timber), Concrete or Piles (Steel).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* PIER TYPE CODE Code representing a type of pier.		N VARCHAR2	10
DESCRIPTION Text describing a pier type code.		N VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid pier type.		N DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid pier type.		N DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE describes a one or more FOREST SERVICE BRIDGE PIER

* = Relationships in primary unique identifier.

Unique Identifiers:

PTC Primary Y

PIER TYPE CODE

Entity Name: REPAIR PRIORITY CODE**Short Name:** RPC**Plural:** REPAIR PRIORITY CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains codes and descriptions for repair priorities. A repair priority is either High, Medium or Low.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* REPAIR PRIORITY CODE		N	VARCHAR2	10
Code representing a repair priority.				
DESCRIPTION		N	VARCHAR2	120
Text describing a repair priority code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid repair priority.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid repair priority.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows priority of one or more STRUCTURE REPAIR

* = Relationships in primary unique identifier.

Unique Identifiers:

RPC Primary Y

REPAIR PRIORITY CODE

Entity Name: REPAIR STATUS CODE**Short Name:** RPSC**Plural:** REPAIR STATUS CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for repair statuses. A repair status is either Recommended (based on an Inspection) or Completed.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* REPAIR STATUS CODE		N	VARCHAR2	10
Code representing a type of repair status.				
DESCRIPTION		N	VARCHAR2	120
Text describing a repair status code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid repair status.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid repair status.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows status of one or more STRUCTURE REPAIR

* = Relationships in primary unique identifier.

Unique Identifiers:

RPSC Primary Y

REPAIR STATUS CODE

Entity Name: ROAD SECTION*Short Name:* RS*Plural:* ROAD SECTION*Init. Volume:* *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:***Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST FILE ID		N	VARCHAR2	10
ROAD SECT NAME		N	VARCHAR2	20
* ROAD SECTION ID		N	VARCHAR2	30

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE provides access to one or more ROAD SEGMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

RS Primary Y

ROAD SECTION ID

FOREST FILE ID

Entity Name: ROAD SEGMENT**Short Name:** RDS**Plural:** ROAD SEGMENT**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOREST FILE ID		N	VARCHAR2	10
ROAD RESPONSIBILITY TYPE CODE		N	VARCHAR2	3
* ROAD SECTION ID		N	VARCHAR2	30
* ROAD SEGMENT ID		N	NUMBER	10

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows road responsibility for one or more CROSSING SITE

MUST BE connected to one and only one ROAD SECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

RDS Primary Y

FOREST FILE ID

ROAD SECTION ID

ROAD SEGMENT ID

Entity Name: RUNNING SURFACE CODE*Short Name:*

RSC

Plural: RUNNING SURFACE CODE*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:**

Contains codes and descriptions for running surfaces. A running surface describes the material that the surface of the bridge is composed of (excluding the material used to compose the structure deck) such as Concrete, Timber Planks, Gravel, Asphalt, Anti-skid or Not Available.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RUNNING SURFACE CODE		N	VARCHAR2	10
Code representing a running surface.				
DESCRIPTION		N	VARCHAR2	120
Text describing a running surface.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid running surface.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid running surface.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows type of running surface of one or more FOREST SERVICE BRIDGE

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

RSC

Primary Y

RUNNING SURFACE CODE

Entity Name: SPECIAL ACCESS REQUIREMENT CODE**Short Name:** SARC**Plural:** SPECIAL ACCESS REQUIREMENT CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for special access requirements. This helps to identifies what may be required to access the site such as Helicopter, Boat, ATV, 4WD, Gate Key or Isolated Public Access.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SPECIAL ACCESS REQUIREMENT CODE		N	VARCHAR2	10
Code representing a special access requirement.				
DESCRIPTION		N	VARCHAR2	120
Text describing a special access requirement code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid special access requirement.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid special access requirement.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows special access requirements one or more CROSSING SITE

* = Relationships in primary unique identifier.

Unique Identifiers:

SARC Primary Y

SPECIAL ACCESS REQUIREMENT CODE

Entity Name: SPECIAL EQUIPMENT REQUIREMENT CC**Short Name:** SERC**Plural:** SPECIAL EQUIPMENT REQUIREMENT CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for special equipment requirements required for accessing a site. This helps an inspector identify what equipment may be required before accessing the site such as Scuba gear or a Peeper truck.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SPECIAL EQUIPMENT REQUIREMENT CODE		N	VARCHAR2	10
Code representing special equipment requirements for a site.				
DESCRIPTION		N	VARCHAR2	120
Text describing a special equipment requirement code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid special equipment requirement.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid special equipment requirement.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE shows special equipment requirements one or more CROSSING SITE

* = Relationships in primary unique identifier.

Unique Identifiers:

SERC Primary Y
 SPECIAL EQUIPMENT REQUIREMENT CODE

Entity Name: STRUCTURE INSPCTN QUESTION ANSWI**Short Name:** SIQAX**Plural:** STRUCTURE INSPCTN QUESTION ANSWER XREF**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

This entity represents the valid combinations of structure inspection questions and structure inspection answers.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
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* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

- * MUST BE contains one and only one STRUCTURE INSPECTION ANSWER CODE
 - * MUST BE contains one and only one STRUCTURE INSPECTION QUESTION CODE
- * = Relationships in primary unique identifier.

Unique Identifiers:

SIQAX	Primary	Y
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MUST BE contains one and only one STRUCTURE INSPECTION QUESTION CODE

MUST BE contains one and only one STRUCTURE INSPECTION ANSWER CODE

Entity Name: STRUCTURE INSPCTN QUESTION CRITEI**Short Name:** SIQCX**Plural:** STRUCTURE INSPCTN QUESTION CRITERIA XREF**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Maps any criteria that must be met before a question is to be displayed. For example, a Deck question about Running Surface quality should be displayed for all structure types except for gravel, steel and timber.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* INSPCTN QUESTION CRITERIA IDENTIFIER		N NUMBER	10

A unique identifier for data.

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE contains one and only one RUNNING SURFACE CODE

or MAY BE contains one and only one DECK TYPE CODE

or MAY BE contains one and only one SUPERSTRUCTURE TYPE CODE

or MAY BE contains one and only one OPEN BOTTOM CULVERT SUBSTRUCTURE CODE

or MAY BE contains one and only one ABUTMENT CODE

MUST BE shows criteria for one and only one STRUCTURE INSPECTION QUESTION CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

SIQCX

Primary Y

INSPCTN QUESTION CRITERIA IDENTIFIER

Entity Name: STRUCTURE INSPCTN QUESTION SUBSC**Short Name:** SIQSX**Plural:** STRUCTURE INSPCTN QUESTION SUBSCTN XREF**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

This entity defines which inspection questions belong to which subsection.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
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* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

- * MUST BE contains one and only one STRUCTURE INSPECTION QUESTION CODE
- * MUST BE contains one and only one STRUCTURE INSPECTION SUBSECTION CODE
- * = Relationships in primary unique identifier.

Unique Identifiers:

SIQSX	Primary	Y
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MUST BE contains one and only one STRUCTURE INSPECTION SUBSECTION CODE

MUST BE contains one and only one STRUCTURE INSPECTION QUESTION CODE

Entity Name: STRUCTURE INSPECTION**Short Name:** SI**Plural:** STRUCTURE INSPECTION**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains information found during an inspection.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* INSPECTION IDENTIFIER		N	NUMBER	10
A unique identifier for an inspection.				
CHANNEL HWL CLEARANCE		Y	NUMBER	6,1
Estimated minimum high-water level (HWL) clearance to underside of span given visual high-water evidence. Measured in metres.				
CHANNEL PWL DEPTH		Y	NUMBER	6,1
Estimated average present water level (PWL) depth for present wetted width. Estimated present water surface width. Present wetted width can be defined as the total stream width at the present water level. Measured in metres.				
CHANNEL PWL WIDTH		Y	NUMBER	6,1
Estimated average present water level (PWL) width of the channel of at time of inspection measured from edge of water to edge of water. Measured in metres.				
HIGH WATER HAZARD INDICATOR		N	VARCHAR2	1
Indication that a high water condition exists that could impact the integrity of the bridge.				
DEBRIS HAZARD INDICATOR		N	VARCHAR2	1
Indication that debris exists that could impact the integrity of the bridge.				
SCOUR HAZARD INDICATOR		N	VARCHAR2	1
Indication that scour exists that could impact the integrity of the bridge.				
AGGRADATION HAZARD INDICATOR		N	VARCHAR2	1
Indication that aggradation exists that could impact the integrity of the bridge.				
ICE HAZARD INDICATOR		N	VARCHAR2	1
Indication that ice exists that could impact the integrity of the bridge.				
HAZARD COMMENT		Y	VARCHAR2	2000
Comment field which further describes any identified hazards.				
INSPECTION COMMENT		Y	VARCHAR2	2000
Field for comments by inspector and reviewing professional engineer.				
INSPECTION COST		Y	NUMBER	6
The cost to conduct the inspection.				
INSPECTION DATE		Y	DATE	
Date that a field inspection is completed.				
INSPECTOR NAME		Y	VARCHAR2	255
The name of the person who performed the inspection on the structure.				
INSPECTOR COMPANY NAME		Y	VARCHAR2	255
The name of the company the person who performed the inspection belongs to.				
PENG INSPECTION REQUIRED INDICATOR		N	VARCHAR2	1
Determines if the structure will require a professional engineer (PEng) review.				
PENG REVIEWER DATE		Y	DATE	
Date when the professional engineer (PEng) approves the inspection report.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				

Entity Name: STRUCTURE INSPECTION (cont'd)	Short Name:	SI
UPDATE USERID The user who last updated the data.	N VARCHAR2	30
UPDATE TIMESTAMP The date/time the data was last updated.	N DATE	
* = Attributes in primary unique identifier.		

Relationships:**Each Occurrence Of This Entity:**

MUST BE shows inspection for one and only one CROSSING STRUCTURE

MAY BE has one or more CROSSING STRUCTURE FILE DETAIL

MUST BE has a one and only one INSPECTION REPORT STATUS CODE

MAY BE has a one and only one MONITORING STATUS CODE

MUST BE identifies one or more STRUCTURE INSPECTION ITEM

MAY BE reviewed by one and only one STRUCTURE INSPECTION REVIEWER

MAY BE recommends one or more STRUCTURE MONITOR ITEMS

MAY BE recommends one or more STRUCTURE REPAIR

* = Relationships in primary unique identifier.

Unique Identifiers:

INSPCTN Primary Y

INSPECTION IDENTIFIER

Entity Name: STRUCTURE INSPECTION ANSWER COD]*Short Name:*

SIAC

Plural: STRUCTURE INSPECTION ANSWER CODE*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:**

Holds codes for the answers to questions asked about the quality of structure components. For example, if the major structure is a Permanent Bridge and the component of the bridge being inspected is the Deck and the question being asked is about the quality of the Road Surface the answer code could be E - Excellent or P- Poor. Not all questions have a set of valid answers that can be supplied. For example, when asking about the Posted Load Rating the value will be in tonnes.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION ANSWER CODE		N	VARCHAR2	10
Code representing a structure inspection answer.				
DESCRIPTION		N	VARCHAR2	120
Text describing a structure inspection answer code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid inspection answer.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid inspection answer.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION ANSWER XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

SIAC

Primary Y

STRUCTURE INSPECTION ANSWER CODE

Entity Name: STRUCTURE INSPECTION ITEM**Short Name:** II**Plural:** STRUCTURE INSPECTION ITEM**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Holds answers for questions asked on an inspection report. An item will belong to a subsection within the report and be displayed beneath that section. An item may also have a valid set of answers for the particular question asked.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION ITEM IDENTIFIER Unique identifier for inspection item records.		N	NUMBER	10
ANSWER VALUE The answer to the associated question for the inspection.		N	VARCHAR2	255
STRINGER NUMBER The number of the stringer that the particular question is referring to. Not all questions relate to a stringer so this value is optional.		Y	NUMBER	5
COMMENT A comment related to the question asked.		Y	VARCHAR2	2000
ENTRY USERID The user who initially created the data.		N	VARCHAR2	30
ENTRY TIMESTAMP The date/time the data was first created.		N	DATE	
UPDATE USERID The user who last updated the data.		N	VARCHAR2	30
UPDATE TIMESTAMP The date/time the data was last updated.		N	DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE refers to one and only one FOREST SERVICE BRIDGE PIER

MAY BE refers to one and only one FOREST SERVICE BRIDGE SPAN

MUST BE answers questions for a one and only one STRUCTURE INSPECTION

MUST BE asks one and only one STRUCTURE INSPECTION QUESTION CODE

MUST BE is displayed within one and only one STRUCTURE INSPECTION SUBSECTION CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

II Primary Y

STRUCTURE INSPECTION ITEM IDENTIFIER

Entity Name: STRUCTURE INSPECTION QUESTION CO**Short Name:** SIQC**Plural:** STRUCTURE INSPECTION QUESTION CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Holds codes for a series of questions which may be asked in inspecting a component of a major structure. For example, if the major structure is a Permanent Bridge and the component of the bridge being inspected is the Deck, a question about the quality of the Road Surface might be asked.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION QUESTION CODE		N	VARCHAR2	10
Code representing a structure inspection question.				
DESCRIPTION		N	VARCHAR2	120
Text describing a structure inspection question code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid inspection question.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid inspection question.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION ANSWER XREF

MAY BE identifies question for one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION SUBSCTN XREF

MAY BE is answered by one or more STRUCTURE INSPECTION ITEM

* = Relationships in primary unique identifier.

Unique Identifiers:

SIQC Primary Y

STRUCTURE INSPECTION QUESTION CODE

Entity Name: STRUCTURE INSPECTION REVIEWER*Short Name:*

SIR

Plural: STRUCTURE INSPECTION REVIEWER*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:**

Contains information about individuals that may be reviewing an inspection. A reviewer will either be a Ministry of Forest and Range employee who is a Regional Bridge Engineer or, in the case of BCTS, a Contracted Professional Engineer.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION PERSON IDENTIFIER		N	NUMBER	10
A unique identifier for the inspection person.				
FIRST NAME		N	VARCHAR2	50
The first name of the person.				
LAST NAME		N	VARCHAR2	50
The last name of the person.				
USERID		N	VARCHAR2	30
The user id of the person.				
ACTIVE INDICATOR		N	VARCHAR2	1
Identifies if the reviewer is still active and has permission to review inspections.				
ENTRY USERID		N	VARCHAR2	30
The user who initially entered the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first entered.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE review an one or more STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

USERID Primary N

USERID

IP Primary Y

STRUCTURE INSPECTION PERSON IDENTIFIER

Entity Name: STRUCTURE INSPECTION STATUS CODE**Short Name:** STISC**Plural:** STRUCTURE INSPECTION STATUS CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for inspection statuses. Valid codes include INS (Inspect) or DNI (Do Not Inspect). A status of "Do Not Inspect" may mean that the structure(s) on the site are not yet ready for inspection (maybe they haven't been built yet).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION STATUS CODE		N	VARCHAR2	10
Code representing an inspection status.				
DESCRIPTION		N	VARCHAR2	120
Text describing a structure inspection status code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid inspection status.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid inspection status.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE shows inspection status one or more CROSSING SITE

* = Relationships in primary unique identifier.

Unique Identifiers:

ISC Primary Y

STRUCTURE INSPECTION STATUS CODE

Entity Name: STRUCTURE INSPECTION SUBSECTION (**Short Name:** SISC**Plural:** STRUCTURE INSPECTION SUBSECTION CODE**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Holds codes for a list of components of a major structure which may be inspected. For example, if the major structure is a Permanent Bridge than a component of the bridge being inspected might be the Deck. Valid subsections for an inspection report are Approaches, Deck, Stringers, Curbs Needle Beans(s) and Shims, Superstructure, Piers, Abutments and Culvert Element.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE INSPECTION SUBSECTION CODE		N	VARCHAR2	10
Code representing a type of inspection subsection.				
DESCRIPTION		N	VARCHAR2	120
Text describing a structure inspection subsection code.				
EFFECTIVE DATE		N	DATE	
The date the data is effective and available as a valid inspection subsection.				
EXPIRY DATE		N	DATE	
The date the data expires and can no longer be used as a valid inspection subsection.				
UPDATE TIMESTAMP		N	DATE	
The date and time the content was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION SUBSCTN XREF

MAY BE contains one or more STRUCTURE INSPECTION ITEM

MAY BE is part of one or more STRUCTURE TYPE INSPCTN SUBSECTION XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

SISC Primary Y
 STRUCTURE INSPECTION SUBSECTION CODE

Entity Name: STRUCTURE MONITOR ITEMS**Short Name:** SMI**Plural:** STRUCTURE MONITOR ITEMS**Init. Volume:** **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:****Description:**

Contains information about an item or set of items that require monitoring. A monitor may be identified through an inspection but may not and just be directly related to the structure.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MONITOR IDENTIFIER		N	NUMBER	10
A unique identifier for a monitor.				
DESCRIPTION		N	VARCHAR2	2000
Description for monitoring items identified during an inspection.				
MONITOR NUMBER		N	NUMBER	10
Sequential number starting at one for each monitoring item found during an inspection.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first created.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

MUST BE shows monitoring recommendations one and only one CROSSING STRUCTURE

MAY BE shows monitoring recommendations one and only one STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

MONITOR_NUMBER Primary N

MONITOR NUMBER

MUST BE shows monitoring recommendations one and only one CROSSING STRUCTURE

MAY BE shows monitoring recommendations one and only one STRUCTURE INSPECTION

MNTR Primary Y

MONITOR IDENTIFIER

Entity Name: STRUCTURE REPAIR

Short Name:

SR

Plural: STRUCTURE REPAIR

Init. Volume:

Avg. Volume:

Max. Volume:

Annual Growth Rate:

Description:

Contains information about a repair that has been recommended or completed for a structure.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* REPAIR IDENTIFIER		N	NUMBER	10
A unique identifier for a repair.				
ACTUAL COST		Y	NUMBER	6
Total actual costs to complete the repair.				
COMPLETED DATE		Y	DATE	
Date when the recommended repair has been completed.				
DESCRIPTION		N	VARCHAR2	2000
Description of the repair.				
ESTIMATE		N	NUMBER	6
The inspector or RBEs estimate as to the cost to complete the repair.				
REPAIR NUMBER		N	NUMBER	10
Sequential number starting at one for each repair item identified on an inspection report.				
ENTRY USERID		N	VARCHAR2	30
The user who initially created the data.				
ENTRY TIMESTAMP		N	DATE	
The date/time the data was first entered.				
UPDATE USERID		N	VARCHAR2	30
The user who last updated the data.				
UPDATE TIMESTAMP		N	DATE	
The date/time the data was last updated.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE shows completed repairs for one and only one CROSSING STRUCTURE

MUST BE has a one and only one REPAIR PRIORITY CODE

MUST BE has a one and only one REPAIR STATUS CODE

MAY BE shows recommended repairs from one and only one STRUCTURE INSPECTION

* = Relationships in primary unique identifier.

Unique Identifiers:

REPAIR_NUMBER Primary N

REPAIR NUMBER

MUST BE shows completed repairs for one and only one CROSSING STRUCTURE

MAY BE shows recommended repairs from one and only one STRUCTURE INSPECTION

RPRS Primary Y

REPAIR IDENTIFIER

Entity Name: STRUCTURE REPLACEMENT XREF*Short Name:* SRX*Plural:* STRUCTURE REPLACEMENT XREF*Init. Volume:**Avg. Volume:**Max. Volume:**Annual Growth Rate:***Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:Each Occurrence Of This Entity:

- * MUST BE replaced by one and only one CROSSING STRUCTURE
- * MUST BE replaces one and only one CROSSING STRUCTURE
- * = Relationships in primary unique identifier.

Unique Identifiers:

SRX	Primary	Y
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*MUST BE replaced by one and only one CROSSING STRUCTURE**MUST BE replaces one and only one CROSSING STRUCTURE*

Entity Name: STRUCTURE SOURCE CODE**Short Name:** STSC**Plural:** STRUCTURE SOURCE CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for structure sources. A source identifies the means by which the selected structure came to be owned by the Ministry. Sources could be New, Replacement, Inherited: Reallocation, Inherited: Non-Status Road, Inherited: Transfers from other Ministries, Inherited: Found Structure or Inherited: Inherited from Oil and Gas/Other Ministry.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STRUCTURE SOURCE CODE Code representing a structure source.		N	VARCHAR2	10
DESCRIPTION Text describing a structure source code.		N	VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid structure source.		N	DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid structure source.		N	DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N	DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows source of one or more CROSSING STRUCTURE

* = Relationships in primary unique identifier.

Unique Identifiers:

STSC Primary Y

STRUCTURE SOURCE CODE

Entity Name: STRUCTURE TYPE CLASS CODE**Short Name:** STCC**Plural:** STRUCTURE TYPE CLASS CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

list of codes defining (major) structure types such as Permanent Bridge, Temporary Bridge, Major Culvert or Woodbox/Log Culvert.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* STRUCTURE TYPE CLASS CODE Code representing a structure type or class.		N VARCHAR2	10
DESCRIPTION Text describing a structure type class code.		N VARCHAR2	120
EFFECTIVE DATE The date the data is effective and available as a valid structure type or class.		N DATE	
EXPIRY DATE The date the data expires and can no longer be used as a valid structure type or class.		N DATE	
UPDATE TIMESTAMP The date and time the content was last updated.		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE shows type or class of one or more CROSSING STRUCTURE

MAY BE is part of one or more STRUCTURE TYPE INSPCTN SUBSECTION XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

STCC Primary Y

STRUCTURE TYPE CLASS CODE

Entity Name: STRUCTURE TYPE INSPCTN SUBSECTIOI**Short Name:** STISX**Plural:** STRUCTURE TYPE INSPCTN SUBSECTION XREF**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:****Attributes:**

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
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* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

* MUST BE contains one and only one STRUCTURE INSPECTION SUBSECTION CODE

* MUST BE contains one and only one STRUCTURE TYPE CLASS CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

STISX

Primary Y

MUST BE contains one and only one STRUCTURE TYPE CLASS CODE

MUST BE contains one and only one STRUCTURE INSPECTION SUBSECTION CODE

Entity Name: SUPERSTRUCTURE TYPE CODE**Short Name:** STC**Plural:** SUPERSTRUCTURE TYPE CODE**Init. Volume:****Avg. Volume:****Max. Volume:****Annual Growth Rate:****Description:**

Contains codes and descriptions for superstructure types.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* SUPERSTRUCTURE TYPE CODE		N VARCHAR2	10
Code representing a type of superstructure.			
DESCRIPTION		N VARCHAR2	120
Text describing a type of superstructure. This describes the main load carrying members with the exception of the deck. Superstructures can be Steel I-beam, Steel Box Beam, Steel Truss/Baily/Acrow, Concrete I/T Beam, Concrete Box Beam, Concrete Slab Girders, Glulam Girder, Timber (Untreated Stringers), Timber (Treated Stringers), Log Stringers, rail Car, Compo Girders, Cast in Place Concrete or Other.			
EFFECTIVE DATE		N DATE	
The date the data is effective and available as a valid superstructure type.			
EXPIRY DATE		N DATE	
The date the data expires and can no longer be used as a valid superstructure type.			
UPDATE TIMESTAMP		N DATE	
The date and time the content was last updated.			
* = Attributes in primary unique identifier.			

Relationships:Each Occurrence Of This Entity:

MAY BE shows type of superstructure of one or more FOREST SERVICE BRIDGE

MAY BE is part of one or more STRUCTURE INSPCTN QUESTION CRITERIA XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

STC Primary Y

SUPERSTRUCTURE TYPE CODE

Index

ABUTMENT CODE, 1
BUILT BY CODE, 2
BULLETIN, 3
CLIENT LOCATION, 4
CROSSING SITE, 5
CROSSING SITE STATUS CODE, 7
CROSSING STRUCTURE, 8
CROSSING STRUCTURE FILE, 10
CROSSING STRUCTURE FILE DETAIL, 11
DECK TYPE CODE, 12
DESIGN VEHICLE CD, 13
EFILE EXTENSION CD, 14
ENGINEERED CULVERT MATERIAL CODE, 15
ENGINEERED CULVERT TYPE CODE, 16
FILE ATTACHMENT TYPE CODE, 17
FILE MIME TYPE CODE, 18
FILE MIME TYPE XREF, 19
FOREST CLIENT, 20
FOREST SERVICE BRIDGE, 21
FOREST SERVICE BRIDGE PIER, 22
FOREST SERVICE BRIDGE SPAN, 23
FOREST SERVICE CULVERT, 24
HEADWALL LOCATION CODE, 25
INSPECTION REPORT STATUS CODE, 26
MONITORING STATUS CODE, 27
OPEN BOTTOM CULVERT SUBSTRUCTURE CODE, 28
ORG UNIT, 29
PIER TYPE CODE, 30
PORTABLE SUPERSTRUCTURE STATUS CODE, 31
REPAIR PRIORITY CODE, 32
REPAIR STATUS CODE, 33
ROAD SECTION, 34
ROAD SEGMENT, 35
RUNNING SURFACE CODE, 36
SPECIAL ACCESS REQUIREMENT CODE, 37
SPECIAL EQUIPMENT REQUIREMENT CODE, 38
STRUCTURE INSPCTN QUESTION ANSWER XREF, 39
STRUCTURE INSPCTN QUESTION CRITERIA XREF, 40
STRUCTURE INSPCTN QUESTION SUBSCTN XREF, 41
STRUCTURE INSPECTION, 42
STRUCTURE INSPECTION ANSWER CODE, 44
STRUCTURE INSPECTION ITEM, 45
STRUCTURE INSPECTION QUESTION CODE, 46
STRUCTURE INSPECTION REVIEWER, 47
STRUCTURE INSPECTION STATUS CODE, 48
STRUCTURE INSPECTION SUBSECTION CODE, 49
STRUCTURE MONITOR ITEMS, 50
STRUCTURE REPAIR, 51
STRUCTURE REPLACEMENT XREF, 52
STRUCTURE SOURCE CODE, 53
STRUCTURE TYPE CLASS CODE, 54
STRUCTURE TYPE INSPCTN SUBSECTION XREF, 55
SUPERSTRUCTURE TYPE CODE, 56