

Table and Column Definitions Report

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Parameters

Workarea:	GLOBAL SHARED WORKAREA
Container:	ABR
Table Name:	%
Data Structure Diagram:	%
Include Column Descriptions?	Y
Include Column Notes?	Y
Include Unique Constraints?	Y
Include Foreign Key Constraints?	Y
Include Check Constraints?	Y
Include Indexes?	Y

Table: ABR_ROAD_SECTION*Description:*

A section of road that constitutes a permanent access structure, built under the authority of a Road Permit, FSR, or Cutting Permit. This can be a multipart line feature.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_SECTION_GEOM_ID A unique identifier to track a road section line.	NOT NULL	NUMBER(10)
2	ROAD_ID A unique identifier to track a road tenure.	NOT NULL	NUMBER(10)
4	GEOMETRY An SDE linestring representing the shape of the road section.	NULL	
5	FOREST_FILE_ID File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number.	NULL	VARCHAR2(10)
6	ROAD_SECTION_ID A unique, user-defined identifier for the road section in relation to the tenure.	NULL	VARCHAR2(10)
7	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
10	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
13	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
14	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
16	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)

Unique Constraints:

ABR_RS_ABR_ROAD_SECTION_UK_UK
 ROAD_ID
 FOREST_FILE_ID
 ROAD_SECTION_ID

Foreign Keys:

ABR_RS_RS_FK
 FOREST_FILE_ID = ROAD_SECTION.FOREST_FILE_ID
 ROAD_SECTION_ID = ROAD_SECTION.ROAD_SECTION_ID
 ABR_RS_RT_FK
 ROAD_ID = ROAD_TENURE.ROAD_ID
 ABR_RS_SM_FK
 SUBMISSION_ID = ABR_SUBMISSION_METADATA.SUBMISSION_ID

Indexes:

ABR_RS_RS_FK_I
 FOREST_FILE_ID
 ROAD_SECTION_ID
 ABR_RS_RT_FK_I
 ROAD_ID
 ABR_RS_SM_FK_I
 SUBMISSION_ID

Table: ABR_ROAD_SECTION_GEOMETRY*Description:**Columns:*

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 5	ROAD_SECTION_GEOM_ID A unique identifier to track a road section line.	NOT NULL	NUMBER(10)
6	GEOMETRY A linestring representing the shape of the road section.	NULL	
7	ENTRY_TIMESTAMP	NOT NULL	DATE
8	ENTRY_USERID	NOT NULL	VARCHAR2(30)
9	UPDATE_TIMESTAMP	NOT NULL	DATE
10	UPDATE_USERID	NOT NULL	VARCHAR2(30)

Foreign Keys:

ABR_RSG_RS_FK

ROAD_SECTION_GEOM_ID = ABR_ROAD_SECTION.ROAD_SECTION_GEOM_ID

Table: ABR_ROAD_SECTION_LINE**Description:**

The spatial representation of a section of road that constitutes a permanent access structure, built under the authority of a Road Permit, FSR, or Cutting Permit. This can be a multipart line feature.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 5	ROAD_SECTION_LINE_ID A unique identifier to track a road section line.	NOT NULL	NUMBER(10)
10	FOREST_FILE_ID File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number.	NOT NULL	VARCHAR2(10)
15	ROAD_SECTION_ID A unique, user-defined identifier for the road section in relation to the tenure.	NOT NULL	VARCHAR2(30)
20	ROAD_ID A unique identifier to track a road tenure.	NOT NULL	NUMBER(10)
30	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
35	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
40	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
45	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
50	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)
55	GEOMETRY A linestring representing the shape of the road section.	NULL	
60	OBJECTID A unique identifier used by SDE.	NOT NULL	INTEGER

Unique Constraints:

ABR_RSL_RS_UK
ROAD_ID
FOREST_FILE_ID
ROAD_SECTION_ID
ABR_RSL_SDE_ROWID_UK
OBJECTID

Indexes:

ABR_RSL_ROAD_SECTION_I
FOREST_FILE_ID
ROAD_SECTION_ID
ABR_RSL_SUBMISSION_I
SUBMISSION_ID

Notes:

TPM 2007-07-03 Added to support replication to the LRDW.

This table should really be a materialized view, but due to limitations in Oracle Replication for Spatial tables (as of 10gR2), it is a table instead. The data is retrieved from a view on the source system and is replicated to the table using the SDR (Spatial Data Replication) tool.

The view in the source system is called ABR_ROAD_SECTION_LINE, but in Designer it is called ABR_ROAD_SECTION_LINE_VW.

Table: ABR_SUBMISSION_METADATA*Description:*

Submission metadata comprises information about the ABR electronic submission

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 20	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)
30	CONTACT_NAME Contact name of the licensee representative.	NOT NULL	VARCHAR2(50)
40	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
50	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
60	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
62	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)

Foreign Keys:

SM_ES_FK
SUBMISSION_ID = ELECTRONIC_SUBMISSION.SUBMISSION_ID

Indexes:

SM_ES_FK_I
SUBMISSION_ID

Table: BRIDGE_DECK_CODE*Description:*

The material of which the deck is made. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	BRIDGE_DECK_CODE Code desciring the material from which the deck is made.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: BRIDGE_SUBSTRUCTURE_CODE*Description:*

The type of bridge substructure. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	BRIDGE_SUBSTRUCTURE_CODE The type of bridge substructure.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: BRIDGE_SUPERSTRUCTURE_CODE*Description:*

The primary type of bridge superstructure. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	BRIDGE_SUPERSTRUCTURE_CODE The primary type of bridge superstructure.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: CORP_CAPTURE_METHOD*Description:*

The method used to capture the spatial data, e.g. Differential GPS, Tablet Digitizing, etc.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	CAPTURE_METHOD_CODE The method used to capture the spatial data, e.g. Differential GPS, Tablet Digitizing, etc.	NOT NULL	VARCHAR2(30)
15	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
30	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
40	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
50	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: CORP_COORDINATE_SYSTEM_CODE*Description:*

The description of the reference frame for, and the means to encode, coordinates in the data set. Example: "EPSG:42102" for NAD83 BC Albers. This already exists in MASCOT.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	COORDINATE_SYSTEM_CODE The description of the reference frame for, and the means to encode, coordinates in the data set. Example: "EPSG:42102" for NAD83 BC Albers.	NOT NULL	VARCHAR2(12)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: CUT_BLOCK*Description:*

Information about harvesting that takes place on a cut block within a cutting permit, for a file on a harvesting tenure. This entity is a stub and is here to show a relationship. It will not be generated.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	FOREST_FILE_ID File identification assigned to provincial forest use files. Assigned file number.	NOT NULL	VARCHAR2(10)
* 2	TIMBER_MARK Identifier for a cutting permit associated with a quota type tenure.	NOT NULL	VARCHAR2(6)
* 3	CUT_BLOCK_ID Identifier for a cut block of a harvesting tenure (within a cutting permit for tenures with cp's).	NOT NULL	VARCHAR2(10)
5	FOREST_FILE_ID_IDENTIFIED_BY File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number.	NOT NULL	VARCHAR2(10)

Foreign Keys:

CB_PFU_FK
FOREST_FILE_ID_IDENTIFIED_BY = PROV_FOREST_USE.FOREST_FILE_ID

Indexes:

CB_PFU_FK_I
FOREST_FILE_ID_IDENTIFIED_BY

Table: DATA_SOURCE_CODE*Description:*

The source of the spatial data, e.g. Field Survey, Air Photos, etc.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	DATA_SOURCE_CODE The source of the spatial data, e.g. Field Survey, Air Photos, etc.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ELECTRONIC_SUBMISSION*Description:*

A submission is an XML document that conforms to a schema defined in the XML Schema Repository. Each instance of a submission will be tracked by this entity. This entity is a stub and is here to show a relationship. It will not be generated.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	SUBMISSION_ID A unique identifier to track a submission.	NOT NULL	NUMBER(10)

Table: HORIZONTAL_DATUM_CODE*Description:*

A mathematical approximation of the earth's shape. One of: NAD83, NAD27.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	HORIZONTAL_DATUM_CODE A mathematical approximation of the earth's shape. One of: NAD83, NAD27.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: LINEAR_EVENT_LOCATION**Description:**

An event describing how the spatial information was collected for a road section, or a portion thereof. If there is one event then it must cover the whole road section. If there is more than one, then they must be overlapping and must cover the whole road section.

Engineered structures, other than bridges or culverts, that occur along a road.

Structures on a road which pass over water bodies or other obstacles.

Descriptors and date when construction was completed.

Portion of a road containing stumps, roots, and embedded logs left or placed (i) under the road fill within the road prism width, if the road is located on landslide-prone terrain, or

(ii) under the travelled portion of the road fill for other road locations.

Descriptors and date when deactivation was completed.

Location and descriptors that occur for a given length of road.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	EVENT_ID A unique identifier to track a linear event.	NOT NULL	NUMBER(10)
2	LINEAR_EVENT_TYPE_CODE Indicates the type of linear event. May be either Bridge, Road Linear Structure, Road Bed Organic Material, Road Construction Date, Road Deactivation, or Data Quality.	NULL	VARCHAR2(10)
3	ROAD_SECTION_GEOM_ID A unique identifier to track a road section line.	NOT NULL	NUMBER(10)
4	START_METRES_FROM_POC Distance from the start of the event to the road section's Point of Commencement.	NOT NULL	NUMBER(8,2)
5	END_METRES_FROM_POC Distance from the end of the event to the road section's Point of Commencement.	NOT NULL	NUMBER(8,2)
6	MOST_RECENT_SOURCE_DATE Most recent collection date of the source data	NULL	DATE
7	OBSERVATION_DATE The date the observation was made.	NULL	DATE
8	DESCRIPTION A description that can be used to clarify any of the values in the spatial metadata.	NULL	VARCHAR2(2000)
9	DATA_ACCURACY The data accuracy percentile. Quantifies the percentage of features which are statistically expected to fall within the horizontal and vertical accuracy bounds. Ex: 95	NULL	NUMBER(2)
10	HORIZONTAL_ACCURACY The horizontal accuracy bound.	NULL	NUMBER(3)
11	VERTICAL_ACCURACY The vertical accuracy bound.	NULL	NUMBER(3)
12	VERTICAL_DATUM_CODE A reference for the measurement of elevation. In British Columbia, most vertical data uses the 1928 Canadian Vertical Datum: CVD28.	NULL	VARCHAR2(10)
13	HORIZONTAL_DATUM_CODE A mathematical approximation of the earth's shape. One of: NAD83, NAD27.	NULL	VARCHAR2(10)
14	DATA_SOURCE_CODE The source of the spatial data, e.g. Field Survey, Air Photos, etc.	NULL	VARCHAR2(10)
15	FEATURE_CODE The TRIM CCSM code which best describes the feature e.g. GA9100032	NULL	VARCHAR2(10)
16	COORDINATE_SYSTEM_CODE The description of the reference frame for, and the means to encode, coordinates in the data set. Example: "EPSG:42102" for NAD83 BC Albers.	NULL	VARCHAR2(12)
17	CAPTURE_METHOD_CODE The method used to capture the spatial data, e.g. Differential GPS, Tablet Digitizing, etc.	NULL	VARCHAR2(30)
18	ENGINEERED_STRUCTURE_IND Is this an Engineered Structure designed by a P. eng? Y or N.	NULL	VARCHAR2(1)
19	LINEAR_FEATURE_TYPE_CODE Indicates the composition of a linear engineered structure. Restricted by class.	NULL	VARCHAR2(10)
20	LINEAR_STRUC_CLASS_CODE Indicates the kind of structure. For the purposes of ABR, this is either a (retaining) wall or a French Drain.	NULL	VARCHAR2(10)

Table: LINEAR_EVENT_LOCATION (cont'd)*Columns:*

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
21	SUPERSTRUCTURE_ID Unique Bridge Number. For permanent structures, may be the same as the SITE ID	NULL	VARCHAR2(8)
22	SITE_ID Unique ID for Crossing Location.	NULL	VARCHAR2(8)
23	DESIGN_LOAD_RATING Design load rating (tonnes)	NULL	NUMBER(10)
24	FISH_PRESENT_IND Indicates whether the associated stream has fish values. Y or N.	NULL	VARCHAR2(1)
25	FIELD_KM_MARKER Field Marker indicating the location along the route.	NULL	VARCHAR2(15)
26	STREAM_NAME Name of the body of water the bridge crosses	NULL	VARCHAR2(30)
27	CURRENT_LOAD_RATING Current load rating (tonnes)	NULL	NUMBER(10)
28	NEXT_INSPECTION_DATE Date of the next scheduled inspection	NULL	DATE
29	BRIDGE_DECK_WIDTH Deck width (0.01 m)	NULL	NUMBER(7,2)
30	CHRONIC_MAINTENANCE_IND Is there a chronic maintenance problem? Y or N.	NULL	VARCHAR2(1)
31	UPSTREAM_RISK_IND Is there risk to the structure from upstream? Y or N.	NULL	VARCHAR2(1)
32	INLET_RISK_IND Is there risk to the inlet area of the structure? Y or N.	NULL	VARCHAR2(1)
33	ADEQUATE_SIZE_IND Is the structure of adequate size? Y or N.	NULL	VARCHAR2(1)
34	HISTORIC_WASHOUT_IND Indicates whether the structure has been washed out in the past. Y or N.	NULL	VARCHAR2(1)
35	BRIDGE_DECK_CODE Code describing the material from which the deck is made.	NULL	VARCHAR2(10)
36	BRIDGE_SUPERSTRUCTURE_CODE The primary type of bridge superstructure.	NULL	VARCHAR2(10)
37	BRIDGE_SUBSTRUCTURE_CODE The type of bridge substructure.	NULL	VARCHAR2(10)
38	ROAD_DESIGN_VEHICLE_CODE BCFS logging truck design load configuration for which the structure was designed (e.g. L75, L100, etc.).	NULL	VARCHAR2(10)
40	ROAD_RIPARIAN_CLASS_CODE A code used to classify each stream, lake or wetland. For example, with streams the class code is determined by presence of fish, occurrence in a community watershed, and average channel width.	NULL	VARCHAR2(10)
42	ACTUAL_COMPLETION_DATE Date on which construction was complete.	NULL	DATE
44	PLANNED_ACTIVITY_IND Is this a planned activity? Y or N. Default to 'N'	NULL	VARCHAR2(1)
46	OUTSTANDING_OBLIGATION_IND Are there any outstanding obligations? Y or N.	NULL	VARCHAR2(1)
48	INSPECTION_PLANNED_IND Has an inspection been planned? Y or N.	NULL	VARCHAR2(1)
50	COMMENTS Additional information regarding the road construction.	NULL	VARCHAR2(4000)
52	ROAD_SEASON_CODE Indicates a period of time within the year.	NULL	VARCHAR2(10)
54	ROAD_CONSTRCTN_TYPE_CODE The main activity for this construction.	NULL	VARCHAR2(10)
56	RD_ACTUAL_COMPLETION_DATE Date on which Deactivation was completed.	NULL	DATE
58	SIGNAGE_DATE The date one which signage was installed	NULL	DATE
60	REVEG_DATE	NULL	DATE

Table: LINEAR_EVENT_LOCATION (cont'd)*Columns:*

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
62	The date revegetation was done RD_COMMENTS	NULL	VARCHAR2(4000)
64	Comments regarding the deactivation. ROAD_DEACTVTN_LEVEL_CODE	NULL	VARCHAR2(10)
66	Level of road deactivation. Permanent is the only allowable value. ROAD_FEATURE_CODE	NULL	VARCHAR2(20)
68	Indicates the placement of organic material in relation to the road. ENTRY_TIMESTAMP	NOT NULL	DATE
70	Date ENTRY_USERID	NOT NULL	VARCHAR2(30)
72	User name UPDATE_TIMESTAMP	NOT NULL	DATE
74	The date and time of the last update. UPDATE_USERID	NOT NULL	VARCHAR2(30)
76	Process name e.g. ESF, but also possibly a data-fix processes LEL_TYPE	NOT NULL	VARCHAR2(10)

Unique Constraints:

ABR_ROAD_CONSTRUCTION_DATE_UK
 ABR_ROAD_LINEAR_STRUCTURE__UK
 LEL_ABR_BRIDGE_PK_UK
 LEL_ABR_DQ_PK_UK
 LEL_ABR_ORGANIC_MATERIAL_PK_UK
 LE_ABR_ROAD_DEACTIVATION_PK_UK

Foreign Keys:

LEL_BDC_FK
 BRIDGE_DECK_CODE = BRIDGE_DECK_CODE.BRIDGE_DECK_CODE
 LEL_BSC1_FK
 BRIDGE_SUPERSTRUCTURE_CODE =
 BRIDGE_SUPERSTRUCTURE_CODE.BRIDGE_SUPERSTRUCTURE_CODE
 LEL_BSC_FK
 BRIDGE_SUBSTRUCTURE_CODE = BRIDGE_SUBSTRUCTURE_CODE.BRIDGE_SUBSTRUCTURE_CODE
 LEL_CMC_FK
 CAPTURE_METHOD_CODE = CORP_CAPTURE_METHOD.CAPTURE_METHOD_CODE
 LEL_CSC_FK
 COORDINATE_SYSTEM_CODE = CORP_COORDINATE_SYSTEM_CODE.COORDINATE_SYSTEM_CODE
 LEL_DSC_FK
 DATA_SOURCE_CODE = DATA_SOURCE_CODE.DATA_SOURCE_CODE
 LEL_ELSS_FK
 LINEAR_FEATURE_TYPE_CODE = LINEAR_FEATURE_TYPE_CODE.LINEAR_FEATURE_TYPE_CODE
 LEL_HDC_FK
 HORIZONTAL_DATUM_CODE = HORIZONTAL_DATUM_CODE.HORIZONTAL_DATUM_CODE
 LEL_LETC_FK
 LINEAR_EVENT_TYPE_CODE = LINEAR_EVENT_TYPE_CODE.LINEAR_EVENT_TYPE_CODE
 LEL_LSCC_FK
 LINEAR_STRUC_CLASS_CODE = LINEAR_STRUC_CLASS_CODE.LINEAR_STRUC_CLASS_CODE
 LEL_RCTC_FK
 ROAD_CONSTRCTN_TYPE_CODE = ROAD_CONSTRCTN_TYPE_CODE.ROAD_CONSTRCTN_TYPE_CODE
 LEL_RDLC_FK
 ROAD_DEACTVTN_LEVEL_CODE = ROAD_DEACTVTN_LEVEL_CODE.ROAD_DEACTVTN_LEVEL_CODE
 LEL_RDVC_FK
 ROAD_DESIGN_VEHICLE_CODE = ROAD_DESIGN_VEHICLE_CODE.ROAD_DESIGN_VEHICLE_CODE
 LEL_RFC_FK
 ROAD_FEATURE_CODE = ROAD_FEATURE_CODE.ROAD_FEATURE_CODE
 LEL_RRCC_FK
 ROAD_RIPARIAN_CLASS_CODE = ROAD_RIPARIAN_CLASS_CODE.ROAD_RIPARIAN_CLASS_CODE
 LEL_RSC_FK

Table: LINEAR_EVENT_LOCATION (cont'd)*Foreign Keys:*

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    ROAD_SEASON_CODE = ROAD_SEASON_CODE.ROAD_SEASON_CODE
LEL_RSG_FK
    ROAD_SECTION_GEOM_ID = ABR_ROAD_SECTION.ROAD_SECTION_GEOM_ID
LEL_VDC_FK
    VERTICAL_DATUM_CODE = VERTICAL_DATUM_CODE.VERTICAL_DATUM_CODE

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Check Constraints:

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LEL_VALID_BRIDGE
(LINEAR_EVENT_TYPE_CODE = 'BRDG'
-- MANDATORY FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NOT NULL
AND SITE_ID IS NOT NULL
AND DESIGN_LOAD_RATING IS NOT NULL
AND BRIDGE_DECK_CODE IS NOT NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NOT NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NOT NULL
-- ALL FIELDS NOT FROM BRIDGE MUST BE NULL
-- FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NULL
AND LINEAR_FEATURE_TYPE_CODE IS NULL
AND LINEAR_STRUC_CLASS_CODE IS NULL
-- FIELDS FROM ROAD BED ORGANIC MATERIAL
AND ROAD_FEATURE_CODE IS NULL
-- FIELDS FROM ROAD CONSTRUCTION DATE
AND ACTUAL_COMPLETION_DATE IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND PLANNED_ACTIVITY_IND IS NULL
AND OUTSTANDING_OBLIGATION_IND IS NULL
AND INSPECTION_PLANNED_IND IS NULL
AND COMMENTS IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND ROAD_SEASON_CODE IS NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NULL
-- FIELDS FROM ROAD DEACTIVATION
AND SIGNAGE_DATE IS NULL
AND REVEG_DATE IS NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NULL
-- FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NULL
AND OBSERVATION_DATE IS NULL
AND DESCRIPTION IS NULL
AND DATA_ACCURACY IS NULL
AND HORIZONTAL_ACCURACY IS NULL
AND VERTICAL_ACCURACY IS NULL
AND VERTICAL_DATUM_CODE IS NULL
AND HORIZONTAL_DATUM_CODE IS NULL
AND DATA_SOURCE_CODE IS NULL
AND FEATURE_CODE IS NULL
AND COORDINATE_SYSTEM_CODE IS NULL
AND CAPTURE_METHOD_CODE IS NULL
)
OR
LINEAR_EVENT_TYPE_CODE <> 'BRDG'
LEL_VALID_DATA_QUALITY
(LINEAR_EVENT_TYPE_CODE = 'DQ'
-- MANDATORY FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NOT NULL
AND OBSERVATION_DATE IS NOT NULL
AND DESCRIPTION IS NOT NULL
AND DATA_ACCURACY IS NOT NULL
AND HORIZONTAL_ACCURACY IS NOT NULL

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Table: LINEAR_EVENT_LOCATION (cont'd)*Check Constraints:*

```

AND VERTICAL_ACCURACY IS NOT NULL
AND VERTICAL_DATUM_CODE IS NOT NULL
AND HORIZONTAL_DATUM_CODE IS NOT NULL
AND DATA_SOURCE_CODE IS NOT NULL
AND FEATURE_CODE IS NOT NULL
AND COORDINATE_SYSTEM_CODE IS NOT NULL
AND CAPTURE_METHOD_CODE IS NOT NULL
-- ALL FIELDS NOT FROM ROAD BED ORGANIC MATERIAL MUST BE NULL
-- FIELDS FROM ROAD BED ORGANIC MATERIAL
AND ROAD_FEATURE_CODE IS NULL
-- FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NULL
AND LINEAR_FEATURE_TYPE_CODE IS NULL
AND LINEAR_STRUC_CLASS_CODE IS NULL
-- FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NULL
AND SITE_ID IS NULL
AND DESIGN_LOAD_RATING IS NULL
AND FISH_PRESENT_IND IS NULL
AND FIELD_KM_MARKER IS NULL
AND STREAM_NAME IS NULL
AND CURRENT_LOAD_RATING IS NULL
AND NEXT_INSPECTION_DATE IS NULL
AND BRIDGE_DECK_WIDTH IS NULL
AND CHRONIC_MAINTENANCE_IND IS NULL
AND UPSTREAM_RISK_IND IS NULL
AND INLET_RISK_IND IS NULL
AND ADEQUATE_SIZE_IND IS NULL
AND HISTORIC_WASHOUT_IND IS NULL
AND BRIDGE_DECK_CODE IS NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NULL
AND ROAD_RIPARIAN_CLASS_CODE IS NULL
AND ROAD_DESIGN_VEHICLE_CODE IS NULL
-- FIELDS FROM ROAD CONSTRUCTION DATE
AND ACTUAL_COMPLETION_DATE IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND PLANNED_ACTIVITY_IND IS NULL
AND OUTSTANDING_OBLIGATION_IND IS NULL
AND INSPECTION_PLANNED_IND IS NULL
AND COMMENTS IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND ROAD_SEASON_CODE IS NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NULL
-- FIELDS FROM ROAD DEACTIVATION
AND SIGNAGE_DATE IS NULL
AND REVEG_DATE IS NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NULL
)
OR LINEAR_EVENT_TYPE_CODE <> 'DQ'
LEL_VALID_ROAD_BED
(LINEAR_EVENT_TYPE_CODE = 'RBOM'
-- MANDATORY FIELDS FROM ROAD BED ORGANIC MATERIAL
AND ROAD_FEATURE_CODE IS NOT NULL
-- ALL FIELDS NOT FROM ROAD BED ORGANIC MATERIAL MUST BE NULL
-- FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NULL
AND LINEAR_FEATURE_TYPE_CODE IS NULL
AND LINEAR_STRUC_CLASS_CODE IS NULL
-- FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NULL

```

Table: LINEAR_EVENT_LOCATION (cont'd)*Check Constraints:*

```

AND SITE_ID IS NULL
AND DESIGN_LOAD_RATING IS NULL
AND FISH_PRESENT_IND IS NULL
AND FIELD_KM_MARKER IS NULL
AND STREAM_NAME IS NULL
AND CURRENT_LOAD_RATING IS NULL
AND NEXT_INSPECTION_DATE IS NULL
AND BRIDGE_DECK_WIDTH IS NULL
AND CHRONIC_MAINTENANCE_IND IS NULL
AND UPSTREAM_RISK_IND IS NULL
AND INLET_RISK_IND IS NULL
AND ADEQUATE_SIZE_IND IS NULL
AND HISTORIC_WASHOUT_IND IS NULL
AND BRIDGE_DECK_CODE IS NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NULL
AND ROAD_RIPARIAN_CLASS_CODE IS NULL
AND ROAD_DESIGN_VEHICLE_CODE IS NULL
-- FIELDS FROM ROAD CONSTRUCTION DATE
AND ACTUAL_COMPLETION_DATE IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND PLANNED_ACTIVITY_IND IS NULL
AND OUTSTANDING_OBLIGATION_IND IS NULL
AND INSPECTION_PLANNED_IND IS NULL
AND COMMENTS IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND ROAD_SEASON_CODE IS NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NULL
-- FIELDS FROM ROAD DEACTIVATION
AND SIGNAGE_DATE IS NULL
AND REVEG_DATE IS NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NULL
-- FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NULL
AND OBSERVATION_DATE IS NULL
AND DESCRIPTION IS NULL
AND DATA_ACCURACY IS NULL
AND HORIZONTAL_ACCURACY IS NULL
AND VERTICAL_ACCURACY IS NULL
AND VERTICAL_DATUM_CODE IS NULL
AND HORIZONTAL_DATUM_CODE IS NULL
AND DATA_SOURCE_CODE IS NULL
AND FEATURE_CODE IS NULL
AND COORDINATE_SYSTEM_CODE IS NULL
AND CAPTURE_METHOD_CODE IS NULL
)
OR LINEAR_EVENT_TYPE_CODE <> 'RBOM'
LEL_VALID_ROAD_CONSTR_DATE
(LINEAR_EVENT_TYPE_CODE = 'RCON'
-- MANDATORY FIELDS FROM ROAD CONSTRUCTION DATE
AND ACTUAL_COMPLETION_DATE IS NOT NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NOT NULL
-- ALL FIELDS NOT FROM DATA QUALITY MUST BE NULL
-- FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NULL
AND OBSERVATION_DATE IS NULL
AND DESCRIPTION IS NULL
AND DATA_ACCURACY IS NULL
AND HORIZONTAL_ACCURACY IS NULL
AND VERTICAL_ACCURACY IS NULL
AND VERTICAL_DATUM_CODE IS NULL

```

Table: LINEAR_EVENT_LOCATION (cont'd)*Check Constraints:*

```

AND HORIZONTAL_DATUM_CODE IS NULL
AND DATA_SOURCE_CODE IS NULL
AND FEATURE_CODE IS NULL
AND COORDINATE_SYSTEM_CODE IS NULL
AND CAPTURE_METHOD_CODE IS NULL
-- FIELDS FROM ROAD BED ORGANIC MATERIAL
AND ROAD_FEATURE_CODE IS NULL
-- FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NULL
AND LINEAR_FEATURE_TYPE_CODE IS NULL
AND LINEAR_STRUC_CLASS_CODE IS NULL
-- FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NULL
AND SITE_ID IS NULL
AND DESIGN_LOAD_RATING IS NULL
AND FISH_PRESENT_IND IS NULL
AND FIELD_KM_MARKER IS NULL
AND STREAM_NAME IS NULL
AND CURRENT_LOAD_RATING IS NULL
AND NEXT_INSPECTION_DATE IS NULL
AND BRIDGE_DECK_WIDTH IS NULL
AND CHRONIC_MAINTENANCE_IND IS NULL
AND UPSTREAM_RISK_IND IS NULL
AND INLET_RISK_IND IS NULL
AND ADEQUATE_SIZE_IND IS NULL
AND HISTORIC_WASHOUT_IND IS NULL
AND BRIDGE_DECK_CODE IS NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NULL
AND ROAD_RIPARIAN_CLASS_CODE IS NULL
AND ROAD_DESIGN_VEHICLE_CODE IS NULL
-- FIELDS FROM ROAD DEACTIVATION
AND SIGNAGE_DATE IS NULL
AND REVEG_DATE IS NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NULL
)
OR LINEAR_EVENT_TYPE_CODE <> 'RCON'
LEL_VALID_ROAD_DEACTIVATION
(LINEAR_EVENT_TYPE_CODE = 'RDCT'
-- MANDATORY FIELDS FROM ROAD DEACTIVATION
AND ACTUAL_COMPLETION_DATE IS NOT NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NOT NULL
-- ALL FIELDS NOT FROM DATA QUALITY MUST BE NULL
-- FIELDS FROM ROAD CONSTRUCTION DATE
AND PLANNED_ACTIVITY_IND IS NULL
AND OUTSTANDING_OBLIGATION_IND IS NULL
AND INSPECTION_PLANNED_IND IS NULL
AND ROAD_SEASON_CODE IS NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NULL
-- FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NULL
AND OBSERVATION_DATE IS NULL
AND DESCRIPTION IS NULL
AND DATA_ACCURACY IS NULL
AND HORIZONTAL_ACCURACY IS NULL
AND VERTICAL_ACCURACY IS NULL
AND VERTICAL_DATUM_CODE IS NULL
AND HORIZONTAL_DATUM_CODE IS NULL
AND DATA_SOURCE_CODE IS NULL

```

Table: LINEAR_EVENT_LOCATION (cont'd)*Check Constraints:*

```

AND FEATURE_CODE IS NULL
AND COORDINATE_SYSTEM_CODE IS NULL
AND CAPTURE_METHOD_CODE IS NULL
-- FIELDS FROM ROAD BED ORGANIC MATERIAL
AND ROAD_FEATURE_CODE IS NULL
-- FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NULL
AND LINEAR_FEATURE_TYPE_CODE IS NULL
AND LINEAR_STRUC_CLASS_CODE IS NULL
-- FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NULL
AND SITE_ID IS NULL
AND DESIGN_LOAD_RATING IS NULL
AND FISH_PRESENT_IND IS NULL
AND FIELD_KM_MARKER IS NULL
AND STREAM_NAME IS NULL
AND CURRENT_LOAD_RATING IS NULL
AND NEXT_INSPECTION_DATE IS NULL
AND BRIDGE_DECK_WIDTH IS NULL
AND CHRONIC_MAINTENANCE_IND IS NULL
AND UPSTREAM_RISK_IND IS NULL
AND INLET_RISK_IND IS NULL
AND ADEQUATE_SIZE_IND IS NULL
AND HISTORIC_WASHOUT_IND IS NULL
AND BRIDGE_DECK_CODE IS NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NULL
AND ROAD_RIPARIAN_CLASS_CODE IS NULL
AND ROAD_DESIGN_VEHICLE_CODE IS NULL
)
OR LINEAR_EVENT_TYPE_CODE <> 'RDCT'
LEL_VALID_ROAD_LINEAR_STRUCT
(LINEAR_EVENT_TYPE_CODE = 'RLS'
-- MANDATORY FIELDS FROM ROAD LINEAR STRUCTURE
AND ENGINEERED_STRUCTURE_IND IS NOT NULL
AND LINEAR_FEATURE_TYPE_CODE IS NOT NULL
AND LINEAR_STRUC_CLASS_CODE IS NOT NULL
-- ALL FIELDS NOT FROM ROAD LINEAR STRUCTURE MUST BE NULL
-- FIELDS FROM BRIDGE
AND SUPERSTRUCTURE_ID IS NULL
AND SITE_ID IS NULL
AND DESIGN_LOAD_RATING IS NULL
AND FISH_PRESENT_IND IS NULL
AND FIELD_KM_MARKER IS NULL
AND STREAM_NAME IS NULL
AND CURRENT_LOAD_RATING IS NULL
AND NEXT_INSPECTION_DATE IS NULL
AND BRIDGE_DECK_WIDTH IS NULL
AND CHRONIC_MAINTENANCE_IND IS NULL
AND UPSTREAM_RISK_IND IS NULL
AND INLET_RISK_IND IS NULL
AND ADEQUATE_SIZE_IND IS NULL
AND HISTORIC_WASHOUT_IND IS NULL
AND BRIDGE_DECK_CODE IS NULL
AND BRIDGE_SUPERSTRUCTURE_CODE IS NULL
AND BRIDGE_SUBSTRUCTURE_CODE IS NULL
AND ROAD_RIPARIAN_CLASS_CODE IS NULL
AND ROAD_DESIGN_VEHICLE_CODE IS NULL
-- FIELDS FROM ROAD BED ORGANIC MATERIAL

```

Table: LINEAR_EVENT_LOCATION (cont'd)*Check Constraints:*

```

AND ROAD_FEATURE_CODE IS NULL
-- FIELDS FROM ROAD CONSTRUCTION DATE
AND ACTUAL_COMPLETION_DATE IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND PLANNED_ACTIVITY_IND IS NULL
AND OUTSTANDING_OBLIGATION_IND IS NULL
AND INSPECTION_PLANNED_IND IS NULL
AND COMMENTS IS NULL -- IS SHARED BY ROAD DEACTIVATION
AND ROAD_SEASON_CODE IS NULL
AND ROAD_CONSTRCTN_TYPE_CODE IS NULL
-- FIELDS FROM ROAD DEACTIVATION
AND SIGNAGE_DATE IS NULL
AND REVEG_DATE IS NULL
AND ROAD_DEACTVTN_LEVEL_CODE IS NULL
-- FIELDS FROM DATA QUALITY
AND MOST_RECENT_SOURCE_DATE IS NULL
AND OBSERVATION_DATE IS NULL
AND DESCRIPTION IS NULL
AND DATA_ACCURACY IS NULL
AND HORIZONTAL_ACCURACY IS NULL
AND VERTICAL_ACCURACY IS NULL
AND VERTICAL_DATUM_CODE IS NULL
AND HORIZONTAL_DATUM_CODE IS NULL
AND DATA_SOURCE_CODE IS NULL
AND FEATURE_CODE IS NULL
AND COORDINATE_SYSTEM_CODE IS NULL
AND CAPTURE_METHOD_CODE IS NULL
)
OR LINEAR_EVENT_TYPE_CODE <> 'RLS'

```

Indexes:

```

LEL_BDC_FK_I
  BRIDGE_DECK_CODE
LEL_BSC1_FK_I
  BRIDGE_SUPERSTRUCTURE_CODE
LEL_BSC_FK_I
  BRIDGE_SUBSTRUCTURE_CODE
LEL_CMC_FK_I
  CAPTURE_METHOD_CODE
LEL_CSC_FK_I
  COORDINATE_SYSTEM_CODE
LEL_DSC_FK_I
  DATA_SOURCE_CODE
LEL_ELSS_FK_I
  LINEAR_FEATURE_TYPE_CODE
LEL_FEA_FK_I
  FEATURE_CODE
LEL_HDC_FK_I
  HORIZONTAL_DATUM_CODE
LEL_LETC_FK_I
  LINEAR_EVENT_TYPE_CODE
LEL_LSCC_FK_I
  LINEAR_STRUC_CLASS_CODE
LEL_RCTC_FK_I
  ROAD_CONSTRCTN_TYPE_CODE
LEL_RDLC_FK_I
  ROAD_DEACTVTN_LEVEL_CODE
LEL_RDVC_FK_I
  ROAD_DESIGN_VEHICLE_CODE
LEL_RFC_FK_I

```

Table: LINEAR_EVENT_LOCATION (cont'd)*Indexes:*

ROAD_FEATURE_CODE
LEL_RRCC_FK_I
ROAD_RIPARIAN_CLASS_CODE
LEL_RSC_FK_I
ROAD_SEASON_CODE
LEL_RSG_FK_I
ROAD_SECTION_GEOM_ID
LEL_VDC_FK_I
VERTICAL_DATUM_CODE

Table: LINEAR_EVENT_PROCESSED*Description:*

Indicates if a particular Linear Event has been processed or not. To be used by FRMA when updating ABR information into FRMA.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	EVENT_ID A unique identifier to track the processing of a linear event.	NOT NULL	NUMBER(10)
2	PROCESSED_IND Indicates whether the Linear Event has been processed yet or not.	NOT NULL	VARCHAR2(1)
3	EVENT_UPDATE_TIMESTAMP The Update Timestamp from the Linear Event. This timestamp can be compared to the Update Timestamp of the actual Linear Event to determine if any changes have occurred.	NOT NULL	DATE
4	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
5	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
6	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
7	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)

Table: LINEAR_EVENT_TYPE_CODE*Description:*

Indicates the type of linear event. May be either Bridge, Road Linear Structure, Road Bed Organic Material, Road Construction Date, Road Deactivation, or Data Quality. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	LINEAR_EVENT_TYPE_CODE Indicates the type of linear event. May be either Bridge, Road Linear Structure, Road Bed Organic Material, Road Construction Date, Road Deactivation, or Data Quality.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: LINEAR_FEATURE_TYPE_CODE*Description:*

Indicates the composition of a linear engineered structure. Restricted by class. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	LINEAR_FEATURE_TYPE_CODE Indicates the composition of a linear engineered structure. Restricted by class.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: LINEAR_STRUC_CLASS_CODE*Description:*

Indicates the kind of structure. For the purposes of ABR, this is either a (retaining) wall or a French Drain.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	LINEAR_STRUC_CLASS_CODE Indicates the kind of structure. For the purposes of ABR, this is either a (retaining) wall or a French Drain.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: POINT_EVENT_LOCATION*Description:*

Feature located on the road to prevent or restrict access such as gates and berms.

Pipe, arch or box, or log structure, not greater than 6 m in span, that is located below the road surface of a road and is designed to carry water from one side of the road to the other.

Location and descriptors of an event that occurs at a specific point on the road.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 2	EVENT_ID A unique identifier to track a point event.	NOT NULL	NUMBER(10)
3	METRES_FROM_POC Distance from the event to the road section's Point of Commencement.	NOT NULL	NUMBER(8,2)
4	ROAD_SECTION_GEOM_ID A unique identifier to track a road section line.	NOT NULL	NUMBER(10)
5	POINT_EVENT_TYPE_CODE Indicates the composition of a linear engineered structure. Restricted by class.	NULL	VARCHAR2(10)
6	CLOSURE_ID An assigned structure ID code	NULL	VARCHAR2(20)
7	INSTALL_DATE The date the access control feature was installed	NULL	DATE
8	ROAD_ACCESS_METHOD_CODE Intended vehicle usage.	NULL	VARCHAR2(10)
9	ROAD_ACCESS_RATIONL_CODE The rationale for the road access control feature.	NULL	VARCHAR2(10)
10	ROAD_ACCESS_CONTROL_CODE The Road Access Control (e.g. gate, berm)	NULL	VARCHAR2(10)
11	SITE_STRUCTURE_ID Unique Culvert Structure Number.	NULL	VARCHAR2(10)
12	DIAMETER_OR_SPAN Diameter for round, width for others. Millimeters.	NULL	NUMBER(9,3)
13	ENGINEERED_STRUCTURE_IND Is this an Engineered Structure (Major culvert or designed by a P. eng)? Y or N.	NULL	VARCHAR2(1)
14	DESIGN_LOAD_RATING Design load rating (tonnes)	NULL	NUMBER(10)
15	FISH_PRESENT_IND Indicates whether the associated stream has fish values. Y or N.	NULL	VARCHAR2(1)
16	HEIGHT Opening height. Mandatory if the culvert is not round. Millimeters.	NULL	NUMBER(7,2)
17	STREAM_NAME Name of the stream	NULL	VARCHAR2(30)
18	CURRENT_LOAD_RATING Current load rating (tonnes)	NULL	NUMBER(10)
19	LENGTH Length (mm along the stream)	NULL	NUMBER(7,2)
20	DESCRIPTION Information regarding the appearance, construction, or location of the culvert.	NULL	VARCHAR2(80)
21	ADEQUATE_SIZE_IND Is the structure of adequate size? Y or N.	NULL	VARCHAR2(1)
22	INLET_RISK_IND Is there risk to the inlet area of the structure? Y or N.	NULL	VARCHAR2(1)
23	CHRONIC_MAINTENANCE_IND Is there a chronic maintenance problem? Y or N.	NULL	VARCHAR2(1)
24	COMMENTS Additional information regarding the culvert.	NULL	VARCHAR2(4000)
25	SITE_ID ID for the crossing location	NULL	VARCHAR2(10)
27	HISTORIC_WASHOUT_IND Indicates whether the structure has been washed out in the past. Y or N.	NULL	VARCHAR2(1)
29	ROAD_CULVERT_MATERIAL_CODE The material of which the culvert is made.	NULL	VARCHAR2(10)

Table: POINT_EVENT_LOCATION (cont'd)*Columns:*

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
31	ROAD_DESIGN_VEHICLE_CODE BCFS logging truck design load configuration for which the structure was designed (e.g. L75, L100, etc.).	NULL	VARCHAR2(10)
33	ROAD_RIPARIAN_CLASS_CODE A code used to classify each stream, lake or wetland. For example, with streams the class code is determined by presence of fish, occurrence in a community watershed, and average channel width.	NULL	VARCHAR2(10)
35	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
37	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
39	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
41	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)

Unique Constraints:

ABR_ROAD_ACCESS_CONTROL_PK_UK
 PEL_ABR_CULVERT_PK_UK

Foreign Keys:

PEL_PETC_FK
 POINT_EVENT_TYPE_CODE = POINT_EVENT_TYPE_CODE.POINT_EVENT_TYPE_CODE
 PEL_RACC_FK
 ROAD_ACCESS_CONTROL_CODE = ROAD_ACCESS_CONTROL_CODE.ROAD_ACCESS_CONTROL_CODE
 PEL_RAMC_FK
 ROAD_ACCESS_METHOD_CODE = ROAD_ACCESS_METHOD_CODE.ROAD_ACCESS_METHOD_CODE
 PEL_RARC_FK
 ROAD_ACCESS_RATIONL_CODE = ROAD_ACCESS_RATIONL_CODE.ROAD_ACCESS_RATIONL_CODE
 PEL_RCMC_FK
 ROAD_CULVERT_MATERIAL_CODE = ROAD_CULVERT_MATERIAL_CODE.ROAD_CULVERT_MATERIAL_CODE
 PEL_RDVC_FK
 ROAD_DESIGN_VEHICLE_CODE = ROAD_DESIGN_VEHICLE_CODE.ROAD_DESIGN_VEHICLE_CODE
 PEL_RRCC_FK
 ROAD_RIPARIAN_CLASS_CODE = ROAD_RIPARIAN_CLASS_CODE.ROAD_RIPARIAN_CLASS_CODE
 PEL_RSG_FK
 ROAD_SECTION_GEOM_ID = ABR_ROAD_SECTION.ROAD_SECTION_GEOM_ID

Check Constraints:

PEL_VALID_SUB_TYPE
 (POINT_EVENT_TYPE_CODE = 'ROAD_ACCESS'
 -- MANDATORY FIELDS FROM ROAD_ACCESS
 AND ROAD_ACCESS_CONTROL_CODE IS NOT NULL
 -- ALL FIELDS NOT FROM ROAD ACCESS
 AND SITE_STRUCTURE_ID IS NULL
 AND DIAMETER_OR_SPAN IS NULL
 AND ENGINEERED_STRUCTURE_IND IS NULL
 AND DESIGN_LOAD_RATING IS NULL
 AND FISH_PRESENT_IND IS NULL
 AND HEIGHT IS NULL
 AND STREAM_NAME IS NULL
 AND CURRENT_LOAD_RATING IS NULL
 AND LENGTH IS NULL
 AND DESCRIPTION IS NULL
 AND ADEQUATE_SIZE_IND IS NULL
 AND INLET_RISK_IND IS NULL
 AND CHRONIC_MAINTENANCE_IND IS NULL
 AND COMMENTS IS NULL
 AND SITE_ID IS NULL
 AND HISTORIC_WASHOUT_IND IS NULL)

Table: POINT_EVENT_LOCATION (cont'd)*Check Constraints:*

```
OR
(PPOINT_EVENT_TYPE_CODE = 'CULVERT'
-- MANDATORY FIELDS FROM CULVERT
AND SITE_STRUCTURE_ID IS NOT NULL
AND DIAMETER_OR_SPAN IS NOT NULL
AND ENGINEERED_STRUCTURE_IND IS NOT NULL
AND DESIGN_LOAD_RATING IS NOT NULL
AND ROAD_CULVERT_MATERIAL_CODE IS NOT NULL
-- ALL FIELDS NOT FROM CULVERT
AND CLOSURE_ID IS NULL
AND INSTALL_DATE IS NULL
AND ROAD_ACCESS_CONTROL_CODE IS NULL
AND ROAD_ACCESS_RATIONL_CODE IS NULL
AND ROAD_ACCESS_METHOD_CODE IS NULL)
```

Indexes:

```
PEL_PETC_FK_I
POINT_EVENT_TYPE_CODE
PEL_RACC_FK_I
ROAD_ACCESS_CONTROL_CODE
PEL_RAMC_FK_I
ROAD_ACCESS_METHOD_CODE
PEL_RARC_FK_I
ROAD_ACCESS_RATIONL_CODE
PEL_RCMC_FK_I
ROAD_CULVERT_MATERIAL_CODE
PEL_RDVC_FK_I
ROAD_DESIGN_VEHICLE_CODE
PEL_RRCC_FK_I
ROAD_RIPARIAN_CLASS_CODE
PEL_RSG_FK_I
ROAD_SECTION_GEOM_ID
```

Table: POINT_EVENT_PROCESSED*Description:*

Indicates if a particular Point Event has been processed or not. To be used by FRMA when updating ABR information into FRMA.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	EVENT_ID A unique identifier to track the processing of a point event.	NOT NULL	NUMBER(10)
2	PROCESSED_IND Indicates whether the Point Event has been processed yet or not.	NOT NULL	VARCHAR2(1)
3	EVENT_UPDATE_TIMESTAMP The Update Timestamp from the Point Event. This timestamp can be compared to the Update Timestamp of the actual Point Event to determine if any changes have occurred.	NOT NULL	DATE
4	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
5	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
6	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
7	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)

Table: POINT_EVENT_TYPE_CODE*Description:*

Indicates the type of point event. May be either Road Access Control or Culvert. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	POINT_EVENT_TYPE_CODE Indicates the composition of a linear engineered structure. Restricted by class.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: PROV_FOREST_USE*Description:*

General header information to identify the type of forest land use managed by the Ministry of Forests (eg., timber tenures, grazing tenures, recreation files, forest service roads, etc.). This is the main access point for examining land use information. This entity is a stub and is here to show a relationship. It will not be generated.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	FOREST_FILE_ID	NOT NULL	VARCHAR2(10)
	File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number.		

Table: ROAD_ACCESS_CONTROL_CODE*Description:*

Type of road access control Feature (e.g. gate, berm). See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_ACCESS_CONTROL_CODE The Road Access Control (e.g. gate, berm)	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_ACCESS_METHOD_CODE*Description:*

Intended vehicle usage. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_ACCESS_METHOD_CODE Intended vehicle usage.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_ACCESS_RATIONL_CODE*Description:*

The rationale for the road access control feature. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_ACCESS_RATIONL_CODE The rationale for the road access control feature.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_CONSTRCTN_TYPE_CODE*Description:*

Type of construction activity (e.g. NEW ROAD, WIDEN, etc.). See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_CONSTRCTN_TYPE_CODE The main activity for this construction.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_CULVERT_MATERIAL_CODE*Description:*

The material of which the culvert is made. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_CULVERT_MATERIAL_CODE The material of which the culvert is made.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_DEACTVTN_LEVEL_CODE*Description:*

Level of road deactivation. Permanent is the only allowable value. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_DEACTVTN_LEVEL_CODE Level of road deactivation. Permanent is the only allowable value.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_DESIGN_VEHICLE_CODE*Description:*

The British Columbia Forest Service (BCFS) logging truck design load configuration for which the structure was designed (e.g. L75, L100, etc.). See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_DESIGN_VEHICLE_CODE	NOT NULL	VARCHAR2(10)
	BCFS logging truck design load configuration for which the structure was designed (e.g. L75, L100, etc.).		
2	DESCRIPTION	NOT NULL	VARCHAR2(120)
	The long description of the code suitable for display		
3	EFFECTIVE_DATE	NOT NULL	DATE
	The date the code becomes effective		
4	EXPIRY_DATE	NOT NULL	DATE
	The date the code is not longer valid to be used but retained for referential integrity		
5	UPDATE_TIMESTAMP	NOT NULL	DATE
	The date and time the record was last changed		

Table: ROAD_FEATURE_CODE*Description:*

Indicates the placement of organic material in relation to the road. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_FEATURE_CODE Indicates the placement of organic material in relation to the road.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_RIPARIAN_CLASS_CODE*Description:*

A code used to classify each stream, lake or wetland. For example, with streams the class code is determined by presence of fish, occurrence in a community watershed, and average channel width. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_RIPARIAN_CLASS_CODE A code used to classify each stream, lake or wetland. For example, with streams the class code is determined by presence of fish, occurrence in a community watershed, and average channel width.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_SEASON_CODE*Description:*

Indicates a period of time within the year. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_SEASON_CODE Indicates a period of time within the year.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE

Table: ROAD_SECTION*Description:*

Uniquely identifies each road section. This entity is a stub and is here to show a relationship. It will not be generated.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_SECTION_ID	NOT NULL	VARCHAR2(10)
	A unique, user-defined identifier for the road section in relation to the tenure.		
* 3	FOREST_FILE_ID	NOT NULL	VARCHAR2(10)
	File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number.		

Foreign Keys:

RS_PFU_FK
FOREST_FILE_ID = PROV_FOREST_USE.FOREST_FILE_ID

Indexes:

RS_PFU_FK_I
FOREST_FILE_ID

Table: ROAD_TENURE*Description:*

Agreement (RP, FSR, CP) authorizing construction or activity for the road section.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_ID A unique identifier to track a road tenure.	NOT NULL	NUMBER(10)
15	ROAD_TENURE_TYPE_CODE	NOT NULL	VARCHAR2(5)
25	FOREST_FILE_ID File identification assigned to provincial forest use files. Assigned file number.	NOT NULL	VARCHAR2(10)
35	TIMBER_MARK Identifier for a cutting permit associated with a quota type tenure.	NULL	VARCHAR2(6)
45	CUT_BLOCK_ID Identifier for a cut block of a harvesting tenure (within a cutting permit for tenures with cp's).	NULL	VARCHAR2(10)
55	ENTRY_TIMESTAMP The date and time the information was entered.	NOT NULL	DATE
59	ENTRY_USERID The USERID of the individual who entered the information.	NOT NULL	VARCHAR2(30)
60	UPDATE_TIMESTAMP The date and time of the last update.	NOT NULL	DATE
61	UPDATE_USERID The USERID of the individual who last updated the information.	NOT NULL	VARCHAR2(30)
63	FOREST_FILE_ID_IDENTIFIED_BY File identification assigned to Provincial Forest Use files. Assigned file number. Usually the Licence, Tenure or Private Mark number. <i>This column is not needed as forest_file_id already existed, but it is left here, but set with COMPLETE to 'No' so it will not be generated in the actual table.</i>	NULL	VARCHAR2(10)

Foreign Keys:

RT_CB_FK
FOREST_FILE_ID = CUT_BLOCK.FOREST_FILE_ID
TIMBER_MARK = CUT_BLOCK.TIMBER_MARK
CUT_BLOCK_ID = CUT_BLOCK.CUT_BLOCK_ID
RT_PFU_FK
FOREST_FILE_ID = PROV_FOREST_USE.FOREST_FILE_ID
RT_RTTC_FK
ROAD_TENURE_TYPE_CODE = ROAD_TENURE_TYPE_CODE.ROAD_TENURE_TYPE_CODE

Indexes:

RT_CB_FK_I
FOREST_FILE_ID
TIMBER_MARK
CUT_BLOCK_ID
RT_PFU_FK_I
FOREST_FILE_ID
RT_RTTC_FK_I
ROAD_TENURE_TYPE_CODE

Table: ROAD_TENURE_TYPE_CODE*Description:*

Defines the type of Road Tenure. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	ROAD_TENURE_TYPE_CODE	NOT NULL	VARCHAR2(5)
2	DESCRIPTION	NOT NULL	VARCHAR2(120)
	The long description of the code suitable for display		
3	EFFECTIVE_DATE	NOT NULL	DATE
	The date the code becomes effective		
4	EXPIRY_DATE	NOT NULL	DATE
	The date the code is not longer valid to be used but retained for referential integrity		
5	UPDATE_TIMESTAMP	NOT NULL	DATE
	The date and time the record was last changed		

Table: VERTICAL_DATUM_CODE*Description:*

A reference for the measurement of elevation. In British Columbia, most vertical data uses the 1928 Canadian Vertical Datum: CVD28. See file ABR_CODE_TABLE.xls for code values.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 1	VERTICAL_DATUM_CODE A reference for the measurement of elevation. In British Columbia, most vertical data uses the 1928 Canadian Vertical Datum: CVD28.	NOT NULL	VARCHAR2(10)
2	DESCRIPTION The long description of the code suitable for display	NOT NULL	VARCHAR2(120)
3	EFFECTIVE_DATE The date the code becomes effective	NOT NULL	DATE
4	EXPIRY_DATE The date the code is not longer valid to be used but retained for referential integrity	NOT NULL	DATE
5	UPDATE_TIMESTAMP The date and time the record was last changed	NOT NULL	DATE