



Spatial Data Directives

Guidelines for data formats for GDP/AOP/RFR submissions



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1. Data

The Spatial Data Directives specification lays out the requirements for delivery of spatial data to support various forest management needs. The specification provides the details on the datasets required and the format of these data.

1.1 Templates

To ensure that data is consistent for all submissions, a set of template File Geodatabase (FGDBs) have been created and are available for download from the portal. There are templates for General Development Plan (GDP), Annual Operating Plan (AOP), and Reforestation Plan (RFR) submissions. For each data type, two templates are provided, one for UTM Zone 11 and UTM Zone 12.

1.2 Submissions

Data must be submitted through a web-based portal located at <https://fordataportal.alberta.ca/>. Data submitters will need a My Alberta Digital ID for Business (MADI) account and a Spatial Data Directive (SDD) Portal Account, all accounts can be created using the portal link provided.

Spatial data must be submitted as an Esri® polygon, line, or point feature class using the specified template in FGDB format. Data must be delivered as a zip file archive containing only data related to the type of data being delivered (GDP, AOP or RFR). The name of the zip file is to follow a format as detailed in the Section 1.4.

Metadata is collected as part of the submission process.

1.3 Projection and Datum

NAD83 Canadian National Transformation version 2 (NTv2) is the only acceptable datum. Required projections are:

- UTM Zone 11N (WKID 26911) and
- UTM Zone 12N (WKID 26912).

1.4 File Naming Conventions

File names should include: stakeholder code, data submission type code, and submission date. The standard codes for Stakeholder Names are those used in the *Alberta Regeneration Information System Industry Operations Manual* Appendix D – Stakeholder Codes. Standard submission types and codes are listed in Table 1 below.

Table 1 - Standard data types and codes

Data Type	Data Type Code (DDD)	FGDB Feature Class/Table Name	Type
General Development Plan	GDP	HARV_AREA_BDY	Polygon
		ROADS	Polyline
		WATERCOURSE_CROSSINGS	Point
		VARIANCES	Polygon
Annual Operating Plan	AOP	HARV_AREA_BDY	Polygon
		ROADS	Polyline
		WATERCOURSE_CROSSINGS	Point
		VARIANCES	Polygon
Reforestation Plan	RFR	HARV_AREA_BDY	Polygon

1.4.1 File Geodatabase Naming Conventions

Data delivered in FGDB format can contain multiple feature classes that should only relate to the data type being delivered, as follows:

- General Development Plan - the FGDB should only contain feature classes for HARV_AREA_BDY, ROADS, WATERCOURSE_CROSSINGS, and VARIANCES.
- Annual Operating Plan - FGDB should only contain feature classes for HARV_AREA_BDY, ROADS, WATERCOURSE_CROSSINGS, and VARIANCES.
- Reforestation Plan - FGDB should only contain feature classes for HARV_AREA_BDY

The required delivery format is a zipped FGDB, including only one (1) FGDB per zip file.

FGDB name(s) are formatted SSSS_DDD_YYYYMMDD at a minimum.

1. SSSS is stakeholder code,
2. DDD is data type code,
3. YYYYMMDD is the submission date in the format year, month and day.

Companies may choose to add supplementary naming criterion to best match their organizational data management requirements. supplementary naming criterion can be added after the date stamp and separated with an underscore (_). FGDB Naming should not exceed 40 characters.

Example SSSS_DDD_YYYYMMDD_P55

1.4.2 Amendments File Naming Convention

As per *Information bulleting 4: "Guide to Completing Operational Planning Forms and the Professional Declaration"*. Data delivered as an amendment shall have. The appropriate Amendment form, spatial data is flagged using the amendment field in the templates, and the data package naming follows the minimum naming convention of SSSS_DDD_YYYYMMDD with the additional supplementary naming criterion for amendment and version included and separated with an underscore (_). FGDB Naming should not exceed 40 characters.

Example SSSS_DDD_YYYYMMDD_P55_Amend1

If the data package is an amendment, please ensure it is indicated in the notes section of the submission interface to aid in the Audit process

1.4.3 Resubmission File Naming Convention

Data delivered as a re-submission can use the original submission name only if the resubmission occurs on the same date of delivery. If the resubmission is using a previously submitted geodatabase, the naming must be changed to be reflective of the current submission date.

Example SSSS_DDD_YYYYMMDD_P55_Amend1_Resub1

If the data package is a resubmissions occurring on the same day, it should be indicated in the notes section of the submission interface to aid in the audit process.

2. General Development Plan

Submission Type: GDP

Feature Class Names: HARV_AREA_BDY, ROADS, WATERCOURSE_CROSSINGS, VARIANCES

Description: Proposed forest operations to be conducted during a 5-year period.

Policy: Refer to [AF, Forestry Policy, Spatial data directive No. 2](#) for standards, specifications, submissions, enforcement/compliance, contact information and authorities.

Geometry types: HARV_AREA_BDY - Polygon
ROADS - Polyline
WATERCOURSE_CROSSINGS - Point
VARIANCES - Polygon

Geodatabase File Naming Convention: (SSSS_GDP_YYYYMMDD.GDB)

Table 2 – GDP Planned / Proposed Harvest Area Boundaries (HARV_AREA_BDY) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
DISPOSITION_NUMBER	Text(15)	Number that will be used when entered into ARIS. Text must be capitalized.	Disposition Number	Identifies the Primary Disposition number to which the reforestation responsibility is assigned to.
OPENING_NUMBER	Text(11)	Number that will be used when entered into ARIS. Ten numbers with the possibility of a capitalized letter at the end.	ARIS Opening Number	Describes a unique value assigned to a harvested area that represents its geographic location on the ground.
FIELD_NUMBER	Text(30)	Number that will be used when entered into ARIS. A combination of letters and numbers are allowed. Text must be capitalized.	ARIS Field Number	Field number assigned by company. Number to be entered into ARIS.
BLOCK_CONIFEROUS_VOLUME	double	System Defined	Conifer Volume (M ³)	Total amount of merchantable conifer volume in the block (M ³).
BLOCK_DECIDUOUS_VOLUME	double	System Defined	Deciduous Volume (M ³)	Total amount of merchantable deciduous volume in the block (M ³)
SUBMISSION_TYPE	Text(15) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.
		NON-STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.

Field Name	Type	Allowable Values	Value Description	Definition
OGR_DEVIATION_1	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.2.5	Variance - 1.2.5	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		GRAZING AND TIMBER - 2.10	Grazing and Timber - 2.10	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_2	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.2.5	Variance - 1.2.5	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		GRAZING AND TIMBER - 2.10	Grazing and Timber - 2.10	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_3	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.2.5	Variance - 1.2.5	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		GRAZING AND TIMBER - 2.10	Grazing and Timber - 2.10	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
NON_STANDARD_AG REED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(18)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to "Amend_GDP_(YYYYMMDD)" where the date is the amendment date.
COMPARTMENT	Text(30)	Capitalized	Compartment	Compartment determined in the FMP. If there is no compartment the FMU should be used.
Shape_Length	double	System Defined	System Defined	Feature perimeter length.
Shape_Area	double	System Defined	System Defined	Feature area.

Table 3 – GDP Planned Roads (ROADS) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
ROAD_ID	Text(30)	Unique road ID number	Unique Road ID number	A unique identifier for roads per disposition holder throughout the Province.
COMMON_NAME	Text(50)	Any text	Road Name	Road IDs need to be unique, but many will share a common road name.
ROAD_STATUS	Text(10) – Domain / Drop down	PLANNED	Planned	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		DEACTIVE	Deactive	
		ACTIVE	Active	
ROAD_TYPE	Text(7) – Domain / Drop down	ACCESS	Access	Roads that provide the access to multiple harvest openings or to single harvest openings further than 150m from another access road or a permanent road. This road type is mandatory for the GDP.
		HARVEST	Harvest	Temporary, short term roads used to facilitate the opening. Generally located within a harvest area. This road type is optional for the GDP.
ROAD_APPROVAL_TIMBER_YEAR	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Timber Year of approval. Planned roads should use the timber year of AOP submission, or NOT-APPLICABLE if it has not been approved in a GDP yet.
		2019-20	2019-20	
		2020-21	2020-21	
		2021-22	2021-22	
		2022-23	2022-23	
		2023-24	2023-24	
		2024-25	2024-25	
		2025-26	2025-26	
		2026-27	2026-27	
		2027-28	2027-28	
2028-29	2028-29			

Field Name	Type	Allowable Values	Value Description	Definition
SUBMISSION_TYPE	Text(15) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.
		NON-STANDARD	Non-Standard Submission	Identifies if the harvest deviates from a ground rule.
OGR_DEVIATION_1	Text(47) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_2	Text(47) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_3	Text(47) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	

Field Name	Type	Allowable Values	Value Description	Definition
NON_STANDARD_AGREED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to “SSSS_GDP_(YYYY MMDD_Amend)” where the date is the amendment date and amendment number
Shape_Length	double	System Defined	System Defined	Feature Length.

Figure 1 - Example of GDP Road Requirement

Access roads are required, harvest roads are optional

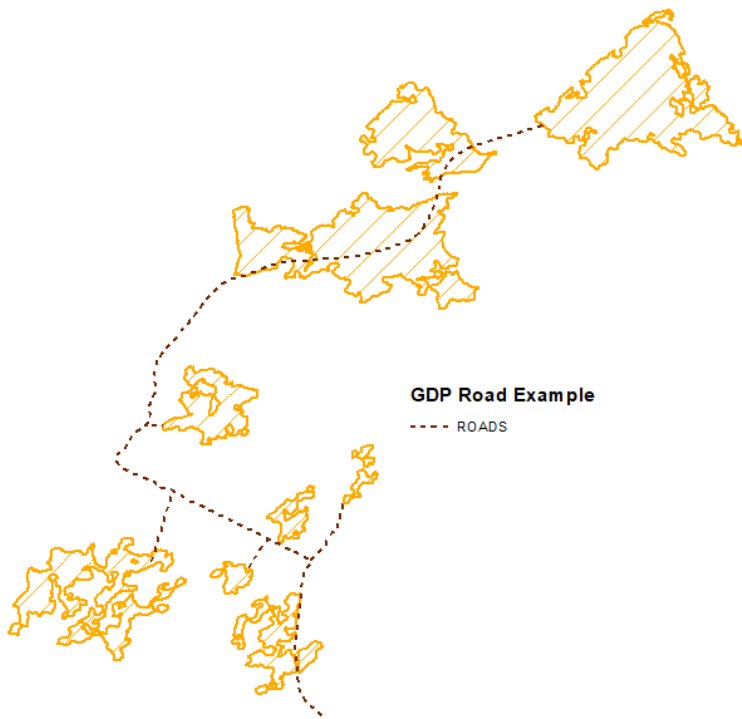


Table 4 – GDP Planned Watercourse Crossings (WATERCOURSE_CROSSINGS) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
WATERCOURSE_ID	Text(30)	The WC_ID must be a unique number.	Watercourse ID	A unique identifier for watercourse crossings per disposition holder throughout the Province.
WATERCOURSE_CROSSING_TYPE	Text(26) – Domain / Drop down	LOG FILL	Log Fill	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		MODIFIED LOG FILL	Modified Log Fill	
		SNOW FILL	Snow Fill	
		BRIDGE	Bridge	
		ICE BRIDGE	Ice Bridge	
		SWAMP MAT	Swamp Mat	
		CORDUROY	Corduroy	
		LOW PROFILE CROSSING	Low Profile Crossing	
		CULVERT	Culvert	
WATERCOURSE_CROSSING_STATUS	Text(10) – Domain / Drop down	PLANNED	Planned	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		ACTIVE	Active	
		DEACTIVE	Deactive	
WATERCOURSE_CLASS	Text(40) – Domain / Drop down	LARGE PERMANENT	Large Permanent	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		SMALL PERMANENT	Small Permanent	
		TRANSITIONAL SMALL PERMANENT	Transitional Small Permanent	
		INTERMITTENT	Intermittent	
		EPHEMERAL	Ephemeral	
		BOG, CONIFER SWAMP, SEASONAL MARSH	Bog, Conifer Swamp, Seasonal Marsh	
		FEN, NON-CONIFER SWAMP	Fen, Non-Conifer Swamp	
		SEMI PERMANENT MARSH, SHALLOW OPEN WATER	Semi Permanent Marsh, Shallow Open Water	
SUBMISSION_TYPE	Text(12) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.

Field Name	Type	Allowable Values	Value Description	Definition
		NON_STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.
OGR_DEVIATION_1	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
OGR_DEVIATION_2	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
OGR_DEVIATION_3	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
NON_STANDARD_AGREED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement to a Non-Standard is not already in place with the Forest Area. This item will need to be reviewed more closely.

Field Name	Type	Allowable Values	Value Description	Definition
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to “Amend_GDP_(YYY YMMDD)” where the date is the amendment date.

Table 5 – GDP Planned Variance (VARIANCES) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
DISPOSITION_NUMBER	Text(15)	Number that will be used when entered into ARIS. Text must be capitalized.	Disposition Number	Identifies the Primary Disposition number to which the reforestation responsibility is assigned to.
VARIANCE_TYPE	Text(15) – Domain / Drop down	DELETION	Deletion	SHS deleted.
		ADDITION	Addition	Area added to the current SHS period (10 yr).
		DEFERRAL-BYPASS	Deferral-Bypass	SHS Deferred – will be available for harvest in the next SHS period (10 yr).
Shape_Length	double	System Defined	System Defined	Feature perimeter length.
Shape_Area	double	System Defined	System Defined	Feature area.

3. Annual Operating Plan

Submission Type: AOP

Feature Class Names: HARV_AREA_BDY, ROADS, WATERCOURSE_CROSSINGS, VARIANCES

Description: Proposed forest operations to be conducted during the timber year submitted under the authority of an annual operating plan.

Policy: Refer to [AF, Forestry Policy, Spatial data directive No. 2](#) for standards, specifications, submissions, enforcement/compliance, contact information and authorities.

Geodatabase File Naming Convention: (SSSS_AOP_YYYYMMDD.GDB)

Table 6 – AOP Harvest Area Boundaries (HARV_AREA_BDY) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
DISPOSITION_NUMBER	Text(15)	Number that will be used when entered into ARIS. Text must be capitalized.	Disposition Number	Identifies the Primary Disposition number to which the reforestation responsibility is assigned to.
OPENING_NUMBER	Text(11)	Number that will be used when entered into ARIS. Ten numbers with the possibility of a capitalized letter at the end.	ARIS Opening Number	Describes a unique value assigned to a harvested area that represents its geographic location on the ground. Openings in the AOP must match what has been submitted and approved in the GDP.
FIELD_NUMBER	Text(30)	Number that will be used when entered into ARIS. A combination of letters and numbers are allowed. Text must be capitalized.	ARIS Field Number	Field number assigned by company. Number to be entered into ARIS.
BLOCK_STATUS	Text(15)	FINAL CLEARANCE	Final Clearance	To be updated through the year and to identify outstanding obligations from the previous timber year.
		HAUL CLEARANCE	Haul Clearance	
		SKID CLEARANCE	Skid Clearance	
		IN PROGRESS	In Progress	Planned blocks for the timber year
PLANNED	Planned Blocks			
BLOCK_CONIFEROUS_VOLUME	double	System Defined	Conifer Volume (M ³)	Total amount of merchantable conifer volume in the block (M ³).

Field Name	Type	Allowable Values	Value Description	Definition
BLOCK_DECIDUOUS_VOLUME	double	System Defined	Deciduous Volume (M³)	Total amount of merchantable deciduous volume in the block (M³)
WITHIN_KWBZ	Text(3)	YES	Yes	Feature has been identified as being located within a Key Wildlife Biodiversity Zone.
		NO	No	Feature has been identified as not being located within a Key Wildlife Biodiversity Zone.
SUBMISSION_TYPE	Text(15)	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.
		NON-STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.
OGR_DEVIATION_1	Text(41) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.3.4	Variance - 1.3.4	
		HARVEST AREA BOUNDARY ALLOWANCE - 1.3.8	Harvest Area Boundary Allowance - 1.3.8	
		THINNING, PARTIAL OR PRE HARVEST - 1.3.14	Thinning, partial or pre harvest – 1.3.14	
		FUR MANAGEMENT - 2.7	Fur Management - 2.7	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		CAMPS - 2.12	Camps - 2.12	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_2	Text(41) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.3.4	Variance - 1.3.4	
		HARVEST AREA BOUNDARY ALLOWANCE - 1.3.8	Harvest Area Boundary Allowance - 1.3.8	
		THINNING, PARTIAL OR PRE HARVEST - 1.3.14	Thinning, partial or pre harvest – 1.3.14	
		FUR MANAGEMENT - 2.7	Fur Management - 2.7	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	

Field Name	Type	Allowable Values	Value Description	Definition
		RECREATION - 2.9	Recreation - 2.9	
		CAMPS - 2.12	Camps - 2.12	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_3	Text(41) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		VARIANCE - 1.3.4	Variance - 1.3.4	
		HARVEST AREA BOUNDARY ALLOWANCE - 1.3.8	Harvest Area Boundary Allowance - 1.3.8	
		THINNING, PARTIAL OR PRE HARVEST - 1.3.14	Thinning, partial or pre harvest – 1.3.14	
		FUR MANAGEMENT - 2.7	Fur Management - 2.7	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		CAMPS - 2.12	Camps - 2.12	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
NON_STANDARD_AGR EED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to "Amend_AOP_(YYYYM MDD)" where the date is the amendment date.
ALTERNATIVE_UTILIZATION	Text(3)	YES	Yes	Harvest areas utilizing an alternative yield estimate
		NO	No	Harvest areas not utilizing an alternative yield estimate
COMPARTMENT	Text(30)	Capitalized	Compartment	Compartment determined in the FMP. If there is no compartment the FMU should be used.

Field Name	Type	Allowable Values	Value Description	Definition
Shape_Length	double	System Defined	System Defined	Feature perimeter length.
Shape_Area	double	System Defined	System Defined	Feature area.

Table 7 - AOP Roads (ROADS) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
ROAD_ID	Text(30)	Unique road ID number	Unique Road ID number	A unique identifier for roads. Road IDs in the AOP must match what has been submitted and approved in the
COMMON_NAME	Text(50)	Any text	Road Name	Road IDs need to be unique, but many will share a common road name.
ROAD_STATUS	Text(15) – Domain / Drop down	PLANNED	Planned	Planned or laid out roads.
		ACTIVE	Active	Active or existing roads.
		TO BE RECLAIMED	To Be Reclaimed	Planned reclamation for the current timber year.
		RECLAIMED	Reclaimed	To identify outstanding obligations from the previous timber year.
ROAD_TYPE	Text(7) – Domain / Drop down	ACCESS	Access	Roads that provide the access to multiple harvest openings or to single harvest openings further than 150m from another access road or a permanent road. This road type is mandatory for the AOP.

Field Name	Type	Allowable Values	Value Description	Definition
		HARVEST	Harvest	Temporary, short term roads used to facilitate the opening. Generally located within a harvest area. This road type is mandatory for the AOP.
		REFOR	Reforestation Trail	Used for any access other than an AOP road. Example: to walk equipment down seismic lines
ROAD_APPROVAL_TIMBER_YEAR	Text(7) – Domain / Drop down	2019-20	2019-20	Timber Year of road approval. Planned roads should use the timber year of AOP submission.
		2020-21	2020-21	
		2021-22	2021-22	
		2022-23	2022-23	
		2023-24	2023-24	
		2024-25	2024-25	
		2025-26	2025-26	
		2026-27	2026-27	
		2027-28	2027-28	
WITHIN_KWBZ	Text(3)	YES	Yes	Feature has been identified as being located within a Key Wildlife Biodiversity Zone.
		NO	No	Feature has been identified as not being located within a Key Wildlife Biodiversity Zone.
SUBMISSION_TYPE	Text(15) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules
		NON-STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.
OGR_DEVIATION_1	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		ROAD CENTERLINE DEVIATION - 1.3.9.1	Road Centerline Deviation - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	

Field Name	Type	Allowable Values	Value Description	Definition
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_2	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		ROAD CENTERLINE DEVIATION - 1.3.9.1	Road Centerline Deviation - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
OGR_DEVIATION_3	Text(37) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD report as "NOT-APPLICABLE".
		ROAD CENTERLINE DEVIATION - 1.3.9.1	Road Centerline Deviation - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	
		RECREATION - 2.9	Recreation - 2.9	
		SOILS - 2.13	Soils - 2.13	
		ROAD CLASSIFICATION, PLANNING AND DESIGN - 2.14	Road Classification, planning and design - 2.14	
		ACCESS MANAGEMENT - 2.16	Access Management - 2.16	
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		OTHER	Other	
NON_STANDARD_AGREED	Text(14) – Domain /	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard

Field Name	Type	Allowable Values	Value Description	Definition
	Drop down	YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement to a Non-Standard is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to "Amend_AOP_(YYY YMMDD)" where the date is the amendment date.
Shape_Length	double	System Defined	System Defined	Feature Length.

Figure 2 - Example of AOP Road Requirement

Access and Harvest area roads are required

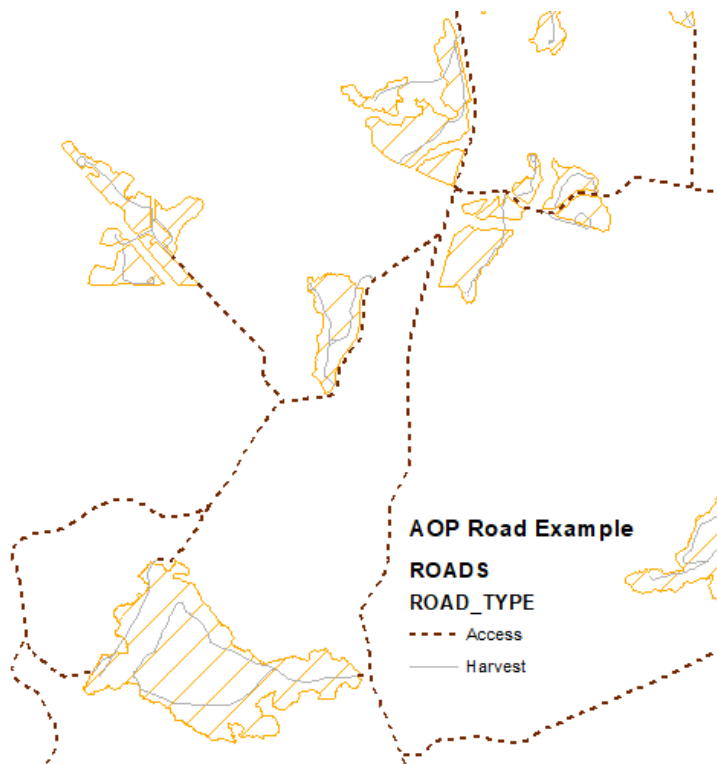


Table 8 – AOP Watercourse Crossings (WATERCOURSE_CROSSINGS) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined	Mandatory	Identifies feature geometry type.
WATERCOURSE_ID	Text(30)	The WC_ID must be a unique number.	Unique Watercourse Crossing ID number.	A unique identifier for watercourse crossings. Watercourse Crossing IDs in the AOP must match what has been submitted and approved in the GDPs.
WATERCOURSE_CROSSING_TYPE	Text(20) – Domain / Drop down	LOG FILL	Log Fill	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		MODIFIED LOG FILL	Modified Log Fill	
		SNOW FILL	Snow Fill	
		BRIDGE	Bridge	
		ICE BRIDGE	Ice Bridge	
		LOW PROFILE CROSSING	Low Profile Crossing	
		CULVERT	Culvert	
		CORDUROY	Corduroy	
WATERCOURSE_CROSSING_STATUS	Text(15) – Domain / Drop down	PLANNED	Planned	Planned watercourse crossings
		ACTIVE	Active	Active or existing watercourse crossings
		TO BE RECLAIMED	To Be Reclaimed	Planned reclamation for the current timber year.
		RECLAIMED	Reclaimed	To identify outstanding obligations from the previous timber year.
WATERCOURSE_CLASS	Text(40) – Domain / Drop down	LARGE PERMANENT	Large Permanent	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		SMALL PERMANENT	Small Permanent	
		TRANSITIONAL SMALL PERMANENT	Transitional Small Permanent	
		INTERMITTENT	Intermittent	
		EPHEMERAL	Ephemeral	

Field Name	Type	Allowable Values	Value Description	Definition
		BOG, CONIFER SWAMP, SEASONAL MARSH	Bog, Conifer Swamp, Seasonal Marsh	
		FEN, NON-CONIFER SWAMP	Fen, Non-Conifer Swamp	
		SEMI PERMANENT MARSH, SHALLOW OPEN WATER	Semi Permanent Marsh, Shallow Open Water	
SUBMISSION_TYPE	Text(12) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.
		NON_STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.
OGR_DEVIATION_1	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	If features are STANDARD then the information in this column will be "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
OGR_DEVIATION_2	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	If features are STANDARD then the information in this column will be "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
OGR_DEVIATION_3	Text(42) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	If features are STANDARD then the information in this column will be "NOT-APPLICABLE".
		NEW WATER CROSSINGS - 1.3.9.1	New Water Crossings - 1.3.9.1	As defined within the Alberta Timber Harvest Planning

Field Name	Type	Allowable Values	Value Description	Definition
		SPECIES OF SPECIAL MGMT CONCERN - 2.8	Species of Special Mgmt Concern - 2.8	and Operating Ground Rules.
		AQUATIC AND RIPARIAN - 2.17	Aquatic and Riparian - 2.17	
		WATER CROSSINGS - 2.18	Water Crossings - 2.18	
		OTHER	Other	
NON_STANDARD_AGREED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement to a Non-Standard is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to “Amend_AOP_(YYY YMMDD)” where the date is the amendment date.

Table 9 – AOP Variances (VARIANCES) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
DISPOSITION_NUMBER	Text(15)	To be identical to information in ARIS. Text must be capitalized.	Disposition Number	Identifies the Primary Disposition number to which the reforestation responsibility is assigned to.
VARIANCE_TYPE	Text(15) – Domain / Drop down	DELETION	Deletion	SHS deleted.
		ADDITION	Addition	Area added to the current SHS period (10 yr).
		DEFERRAL-BYPASS	Deferral-Bypass	SHS Deferred – will be available for harvest in the next SHS period (10 yr).
Shape_Length	double	System Defined	System Defined	Feature perimeter length.
Shape_Area	double	System Defined	System Defined	Feature area.

4. Reforestation Plan

Submission Type: RFR

Feature Class Names: HARV_AREA_BDY

Description: Proposed reforestation operations to be conducted during the timber year.

Policy: Refer to [AF, Forestry Policy, Spatial data directive No. 2](#) for standards, specifications, submissions, enforcement/compliance, contact information and authorities.

Geometry types: HARV_AREA_BDY - Polygon

Geodatabase File Naming Convention: (SSSS _RFR_YYYYMMDD.GDB)

Table 10 - Reforestation Harvest Area Plan (HARV_AREA_BDY) Schema

Field Name	Type	Allowable Values	Value Description	Definition
OBJECTID	Object ID	System Defined		A system-managed value that uniquely identifies a record or feature.
Shape	Geometry	System Defined		Identifies feature geometry type.
OPENING_NUMBER	Text(11)	Number that will be used when entered into ARIS. Ten numbers with the possibility of a capitalized letter at the end.	ARIS Opening Number	Describes a unique value assigned to a harvested area that represents its geographic location on the ground.
DISPOSITION_NUMBER	Text(15)	Number that will be used when entered into ARIS. Text must be capitalized.	Disposition Number	Identifies the Primary Disposition number to which the reforestation responsibility is attached outlined in the Timber Production Revenue System.
FIELD_NUMBER	Text(30)	Number that will be used when entered into ARIS. A combination of letters and numbers are allowed. Text must be capitalized.	ARIS Field Number	Field number assigned by company. Number to be entered into ARIS. Optional field.
SPECIES_STRATA	Text(4) – Domain / Drop Down	HW	Deciduous	Base 10 species strata as described in the Alberta Forest Management Planning Standard.
		HWPL	Hardwood pine DC mixedwood	
		HWSX	Hardwood spruce DC mixedwood	
		SWHW	White Spruce hardwood CD mixedwood	
		PLHW	Pine hardwood CD mixedwood	
		SBHW	Black Spruce hardwood CD mixedwood	

Field Name	Type	Allowable Values	Value Description	Definition
		SW	White Spruce pure or leading	
		PL	Pine pure or leading	
		SB	Black Spruce pure of leading	
		FD	Douglas Fir pure or leading	
SITE_PREP	Text(23) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	If other options are not applicable.
		MECHANICAL	Mechanical	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		CHEMICAL	Chemical	
		MECHANICAL AND CHEMICAL	Mechanical and Chemical	
PLANTED_SPECIES_1	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no planting.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir Balsam/Alpine	
		FIR-DOUGLAS	Fir Douglas	
PLANTED_SPECIES_2	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no planting or only 1 species planted.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir	
		FIR-DOUGLAS	Fir Douglas	
PLANTED_SPECIES_3	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no planting or only 1 or 2 species planted.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir Balsam/Alpine	
		FIR-DOUGLAS	Fir Douglas	
		BIRCH	Birch	

Field Name	Type	Allowable Values	Value Description	Definition
DENSITY	Short Integer	Integer Numbers	Planting density	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. Density is measured in stems per hectare.
PLANTING_AREA	double	0.0-999.9	Area in hectares of opening planted to one decimal place	Area of opening planted. If no planting activity then report as "0.0".
SEED_SPECIES_1	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no seeding.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir Balsam/Alpine	
		FIR-DOUGLAS	Fir Douglas	
SEED_SPECIES_2	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no planting or only 1 species seeded.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir Balsam/Alpine	
		FIR-DOUGLAS	Fir Douglas	
SEED_SPECIES_3	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. "NOT-APPLICABLE" if there is no planting or only 1 or 2 species seeded.
		PINE-LODGEPOLE	Pine Lodgepole	
		PINE-JACK	Pine Jack	
		SPRUCE-WHITE	Spruce White	
		SPRUCE-BLACK	Spruce Black	
		ASPEN	Aspen	
		POPLAR	Poplar Balsam	
		FIR	Fir Balsam/Alpine	
		FIR-DOUGLAS	Fir Douglas	
LEAVE_FOR_NATURAL	Text(3)	YES	Yes	'Leave-for-natural' is being used.
		NO	No	'Leave-for-natural' is not being used.

Field Name	Type	Allowable Values	Value Description	Definition
TENDING	Text(23) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	If other options are not applicable.
		MECHANICAL	Mechanical	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		CHEMICAL	Chemical	
		MECHANICAL AND CHEMICAL	Mechanical and Chemical	
		SHEEP	Sheep	
STREAM_2_PLANTING	Text(3)	YES	Yes	Stream 2 Planting will be Yes is if any of the planned planting in the opening is stream 2.
		NO	No	Stream 2 Planting will be No if all of the planting in the opening is not stream 2.
RETREATMENT	Text(14)	NOT-APPLICABLE	Not-Applicable	If other options are not applicable.
		LET-IT-GROW	Let it Grow	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules.
		REPLANT	Replant	
SUBMISSION_TYPE	Text(12) – Domain / Drop down	STANDARD	Standard Submission	Identifies if the harvest area follows all applicable ground rules.
		NON_STANDARD	Non-Standard Submission	Identifies if the harvest area deviates from a ground rule.
OGR_DEVIATION_1	Text(27) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD then "NOT-APPLICABLE".
		REFORESTATION PROGRAM - 1.4	Reforestation Program - 1.4	
		SILVICULTURE - 2.11	Silviculture - 2.11	
		OTHER	Other	
OGR_DEVIATION_2	Text(27) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD then "NOT-APPLICABLE".
		REFORESTATION PROGRAM - 1.4	Reforestation Program - 1.4	
		SILVICULTURE - 2.11	Silviculture - 2.11	
		OTHER	Other	
OGR_DEVIATION_3	Text(27) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	As defined within the Alberta Timber Harvest Planning and Operating Ground Rules. If features are STANDARD then "NOT-APPLICABLE".
		REFORESTATION PROGRAM - 1.4	Reforestation Program - 1.4	
		SILVICULTURE - 2.11	Silviculture - 2.11	
		OTHER	Other	

Field Name	Type	Allowable Values	Value Description	Definition
NON_STANDARD_AGREED	Text(14) – Domain / Drop down	NOT-APPLICABLE	Not-Applicable	Not applicable to items that are standard
		YES	Yes	Agreement to a Non-Standard has been discussed and is already in place with the Forest Area.
		NO	No	Agreement to a Non-Standard is not already in place with the Forest Area. This item will need to be reviewed more closely.
AMENDMENT_NUMBER	Text(30)	Any text	Any text	This field only needs to be populated for an amendment. The number should conform to “Amend_RFR_(YYY YMMDD)” where the date is the amendment date.

5. Quality Control

Data will be audited for completeness and achievement of standards. Additional quality checks are specified as follows:

1. Attribute data contains valid entries according to accepted set of domain values defined for field.
2. Spatial data verification:
 - Verification of datum and projection;
 - Topology:
 - **No Overlaps** - Polygon interiors in the feature class do not overlap but may share edges or vertices.
 - **Must Be Disjoint (Point)** - Requires that points be separated spatially from other points in the same feature class (or subtype). Any points that overlap are errors.
 - **No Gaps Where Applicable** - Voids do not exist within a single polygon or between adjacent polygons where a polygon boundary coincides with another polygon boundary.

Data that does not meet these minimum quality checks will be returned to the data provider. Once the data provider is confident that the data will meet the quality control checks, the data can be re-submitted.

6. Definitions

Deactive –To be used when a road is open for a few years, deactivated and planned to be used again in the future. This applies only to roads that were approved as non-standard due to their duration and is not a normal practice.

Variance Types – Spatial Harvest Sequence (SHS) variance types and reporting thresholds as defined in the operating ground rules.

For all other definitions refer to the Glossary in the Alberta Timber Harvest Planning and Operating Ground Rules.