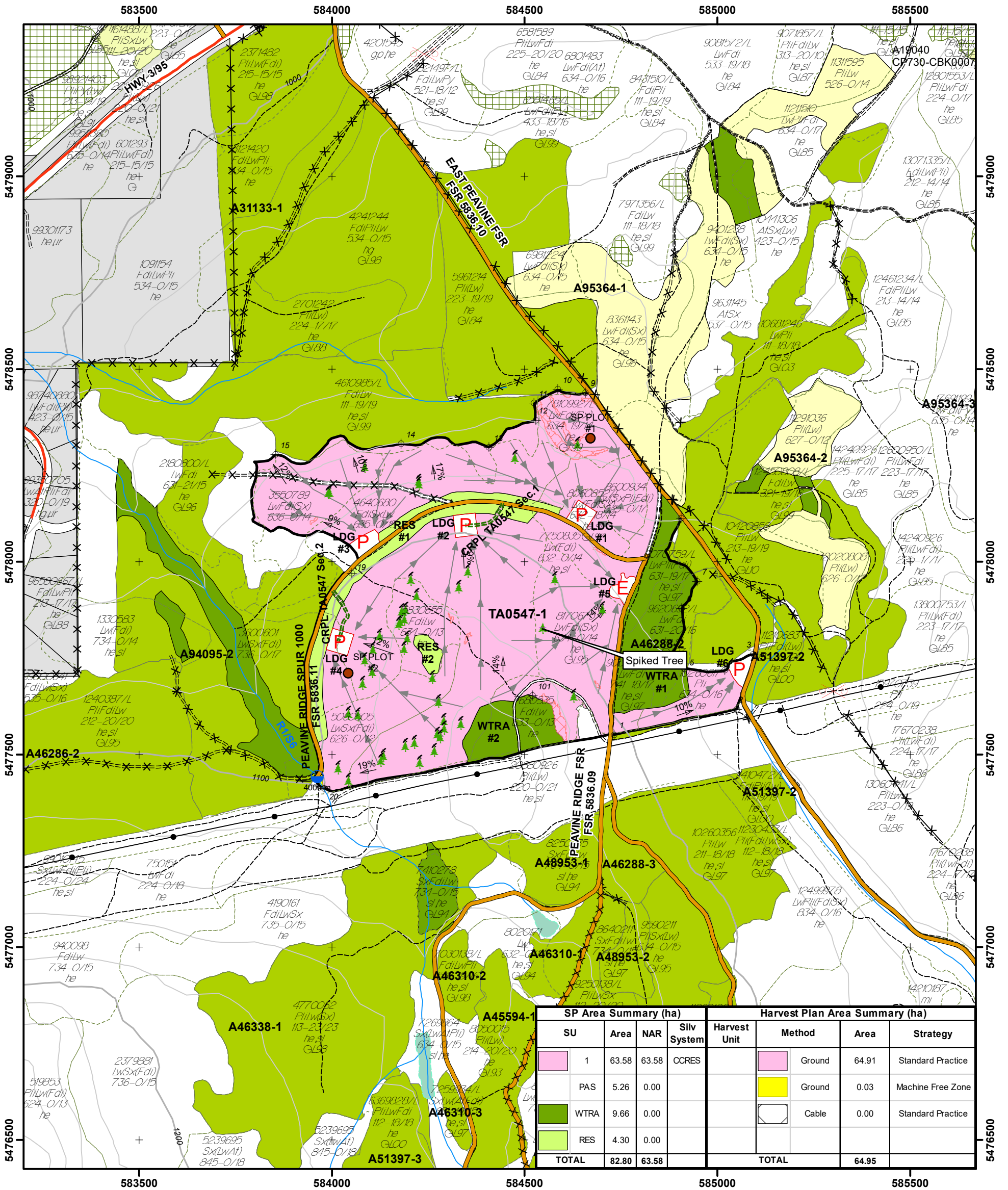




SP Area Summary (ha)					Harvest Plan Area Summary (ha)		
SU	Area	NAR	Silv System	Harvest Unit	Method	Area	Strategy
	1	63.58	63.58	CCRES	Ground	64.91	Standard Practice
	PAS	5.26	0.00		Ground	0.03	Machine Free Zone
	WTRA	9.66	0.00		Cable	0.00	Standard Practice
	RES	4.30	0.00				
TOTAL	82.80	63.58			TOTAL	64.95	

BCTS
BC Timber Sales

East Kootenay Field Unit

HARVEST PLAN and SITE PLAN MAP

TSL: TA0547
Block: 1

Location: Peavine

Map Reference: 082G.041

Opening #: G41-1500

UBI #: BF6QP

UTM	Zone	Easting	Northing
Grid	11	584431	5477897

Latitude: 49° 26' 52"N Longitude: 115° 50' 06"W

MFLNRO Region: Kootenay/Boundary
MFLNRO District: Rocky Mountain

Elevation Range:

Minimum: 1040m Maximum: 1160m

File: ..PEAVINE\TA0547\SP\MXD
TA0547_i3_map_SP_Blk1.MXD
Date: 01 June 2020

Block Boundaries

- Proposed Block Boundary

Permanent Access Structures

- Existing Permanent Landing
- Proposed Permanent Landing

Reserves

- Wildlife Tree Reserve Area
- Internal Reserve

Management Zones

- Machine Free Zone
- Riparian Management Zone
- Riparian Reserve Zone
- Riparian Management Area
- Old Growth Management Area (OGMA)

- Spiked Tree
- Wildlife Tree

Development Block Features

- Highway / Paved Road
- Forest Service Road
- Forest Service Road, Retired
- Road - Existing
- Road - Existing, Retired
- Trail - Existing
- Proposed Road - Permanent
- Proposed Road - Temporary
- Proposed Trail
- Recreation Trail
- Transmission Line
- Pipeline
- Fence Line
- GPS Station
- Proposed/Existing Culvert
- Proposed/Existing Bridge
- Proposed Designated Skid Trail Crossing
- Cattleguard
- SP Plot
- Private Land
- Skidding Direction
- Yarding Direction
- Deflection Line

Harvest Methods

- Ground Harvest Area
- Cable Harvest Area

Adjacent BCTS Blocks (Planning Status, Block Status)

- Planning or 196
- Planning or 196, WIP
- OPC, PP or WIP
- OPC, ADV
- PROP, PP
- PROP, WIP or ADV
- SP x
- Deferred
- HB or LC
- RG or SR
- GU
- FG not GU
- FG
- Surrendered

Natural Block Features

- Stratum Boundary
- Slope Break
- Gully/Dry Draw
- Exposed Bedrock
- Side Slope
- Areas with Slopes > 35%
- Forest Cover Typeline

Streams, Lakes and Wetlands

- Riparian Streams (Class S1 - S6, NCD, NVC)
- Riparian Wetland (Class W1 - W5, NCW)
- Lake (Class L1 - L4, NCL)
- Riparian Stream# - Reach# / Stream Class
- Reach Break

Contours

- Index - 100m interval
- Intermediate - 20m interval

True North
Magnetic North

Magnetic Declination: 14° 06'E

0 100 200 300 metres
UTM11, NAD83
Scale: 1:10 000

1.5 RIPARIAN ASSESSMENT						
Block	Riparian I.D. and Class	RMA	SU	Width (m)	SPH Retained	Comments (Indicate if in a Community Watershed)
1	R1/S6	RMZ	1	30	See comment.	R1/S6 is located in the southwest corner of the block and is buffered by a 7m machine free zone to protect stream structure, function, and habitat. As per FSP #601 Section 5.3.1.5., all stream Riparian Management Areas (RMAs) must have some level of retention unless otherwise specified and a rationale is provided. Required retention within the S6 Riparian Management Zone (RMZ) will be met with the Leave Tree Specifications for this block, thereby meeting the intent of FSP requirements.
Management Strategies:						
An RMZ has not been established in the field as the same cut-specs are prescribed. Machinery must not enter an established “Machine-Free Zone”, and roadside work areas are not permitted within an RMA. Trees must be felled and yarded away from all riparian features where practicable. Any debris entering a riparian feature as a result of harvesting operations must be removed concurrent with harvesting activities.						

Safety Highlights:
There is a transmission line along the southern block boundary. Prior to commencing work, a pre-work meeting between the Licensee and BC Hydro is required regarding safety when working by transmission lines. The harvest area contains several danger trees. The Licensee should be aware of WorkSafe BC regulations (Section 26 of Occupational Health & Safety Regulation) surrounding danger trees. One tree stand for hunting has been identified with spiked trees. See Harvest Plan / Site Plan map for location. The harvest area contains slope pitches exceeding 35%. The Licensee should be aware of WorkSafe BC regulations (Section 26 of Occupational Health & Safety Regulation) surrounding harvesting on steep slopes.

Leave Tree Specifications:											
Table 1. - Layer 1 Reserved Timber ¹											
Block	TU / HU	Selection Priority	Species	Size	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
1	1	1 = Lw 2 = Fd	Lw & Fd	Largest stems available	100	80	125	✓	✓	✓	✓
1	1	N/A	Lw & Fd	≥ 45 cm dbh	All	N/A	N/A	✓	✓	✓	
1	1	N/A	At/Ac/Ep	≥ 17.5 cm dbh	All	N/A	N/A	✓	✓	✓	
<p>Additional Requirements/Comments:</p> <p>1. Retain 80-125 stems per hectare (sph) of western larch (Lw) and Douglas fir (Fd) with a target average of 100 sph throughout the Net Area to Reforest (NAR). The target of 100 sph must be met overall within the NAR. All retained stems will contribute to the target of 100 sph (except for At/Ac/Ep).</p> <p>2. Leave tree distribution should target even spacing. However, tree retention must target the largest stems available which is anticipated to include some irregularly spaced groups of trees as well as regularly spaced single stems. Groups of trees may be retained to compensate for voids without suitable leave trees (e.g. the southeast corner of the block near landing #6).</p> <p>3. Retain all Lw & Fd ≥ 45 cm dbh where they exist and where practicable[†], regardless of spacing. These stems count towards the 100 sph leave tree target.</p> <p>4. Species retention should favour Lw over Fd. Target mistletoe-free Lw stems where available, however it is expected some mistletoe-infested stems will be retained.</p> <p>5. Reserve all deciduous trees ≥ 17.5cm dbh where they exist and where practicable[†]; very few were observed during field recce phase and cruising.</p> <p>6. BCTS reserves the right to pre-mark reserve stems as per above leave tree specifications.</p> <p>[†] E.g. of impracticable situations: leave tree is within a proposed landing clearing area or constrained skid trail.</p>											
¹ Refer to <i>Appendix I</i> for <i>Table of Reserve Timber Abbreviations and Definitions</i>											
² Distribution Types: S: Single Trees, G: Groups of Trees, I: Irregularly Distributed, R: Regularly Distributed											
Note: Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule “A”, Section 2.00 regarding Dangerous Trees.											
Table 2. - Other Reserved Timber											
Non-Merchantable											
Block	TU / HU	Location(s)	Species	Size	Stems per Hectare						
					Target	Minimum					
1	1	Retain patches of regen with a minimum area of 20 m x 20 m up to a maximum of 0.5 ha, where they exist.	All	1.3 m height	N/A	N/A					
Dead Trees to be Stubbed (where Mechanical Falling is utilized)											
Block	TU / HU	Species	Size	Stubbing Height	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
1	1	All	≥ 30 cm dbh	2-5m	3	0	5	✓	✓	✓	
<p>Additional Requirements/Comments:</p> <p>1. The stubbed snag should be left as high as practicable, up to 5m max.</p> <p>2. The stub should be created from obviously poor quality stems that are not merchantable (ie. Heavily scarred, rotten, or excessively swept butts).</p> <p>3. Preference should be given to creating stubs from the largest stems.</p> <p>4. The target of 3 stems/ha must be met over the block.</p>											
Coarse Woody Debris											
Block	TU / HU	Species	Size	Number per Hectare			Distribution ¹				
				Target	Minimum		S	G	I	R	
1	1	All (Non-merchantable)	>10 cm in diameter at one end	≥ 4	4		✓	✓	✓		
<p>1. Retain a minimum of 4 logs per hectare, each > 10cm in diameter at one end. Voids where no coarse woody debris is available may exist; however the minimum must be achieved as averaged for the whole block.</p> <p>2. There is an estimated 75 pieces of CWD per hectare meeting the above size requirements.</p> <p>3. Preference should be given to the largest diameter stems, dead trees with cavities, and/or trees suitable for wildlife use.</p>											
¹ Distribution Types: S: Single Stems/Logs, G: Groups of Stems/Logs, I: Irregularly Distributed, R: Regularly Distributed											
Harvest / Operational Constraints:											
<p>1. Operate during conditions that prevent excessive detrimental soil disturbance.</p> <p>2. Time operations to minimize the duration of active logging and potential impacts.</p> <p>3. Ensure surface drainage patterns are maintained during operations and by the completion of harvesting.</p>											

Kootenay Business Area Field Marking Standards		
	Ribbon	Paint
Harvest Boundary	BCTS Block Boundary	
Falling Corners		FC#
WTRA Boundary	Reserve	
Reserve Boundary	Reserve	
Riparian Reserve Zone	Reserve	
Riparian Management Zone	Riparian Mgmt. Zone	
Management Zone	Management Zone	
Treatment Unit Boundary	Treatment Unit Boundary	
Reserve Trees		
Machine Free Zone	/// Machine Free Zone ///	
Cruising	Cruise Line	Plot Trees
Traverse Stations		
SP Plot Location		

	Ribbon	Paint
NCD & Stream Centers	Water Course	
Road P-Line		
Road Center Line	Road Centerline	
Landings	Landing	
Road Right of Way	R/W Boundary	
Road RP		
Culverts	Culvert	
Designated Crossing	Crossing	
Culvert RP Outside Right of Way		
Tail Holds / Guyline / Intermediate Supports		
Skid Trail / Back Spar Trail / Forwarding Trail	/// Trail ///	
Recce Ribbon / D-Line / Skyline Roads	////////	

I certify that the work described herein fulfills standards expected of a member of the Association of British Columbia Forest Professionals, and that I did personally supervise the work.

Scott Blissett, RPF - #3318

RPF PRINTED NAME

July 1, 2020

DATE SIGNED

RPF'S SIGNATURE and SEAL

