ROAD SITE PLAN
Kootenay Business Area
BC Timber Sales

☒ **Original**
☐ **Amendment**

1. ROAD IDENTIFICATION

ROAD NAME	SECTION	LENGTH (km)	LOCATION	SUPPLY BLOCK	UTM EASTING/NORTHING	
					POC	POT
9921.01 DM Wardner South FSR	Reconstruct	3.203	Cranbrook	05G	618629 5464326	617031 5465014
9921.01 DM Wardner South FSR	New Construction	1.714	Cranbrook	05G	617031 5465014	615571 545633
CRPL TA0897	Sec. 1	0.448	Cranbrook	05G	616729 5465054	616955 5464699
CRPL TA0897	Sec. 2 Seg. 1	0.172	Cranbrook	05G	615541 5465042	615649 5464905
CRPL TA0897	Sec. 2 Seg. 2	0.594	Cranbrook	05G	615649 5464905	616057 5464588
CRPL TA0897	Sec. 2 Seg. 3	0.320	Cranbrook	05G	616057 5464588	616268 5464354
CRPL TA0897	Sec. 3 Seg. 1	0.433	Cranbrook	05G	614869 5464617	614885 5464250
CRPL TA0897	Sec. 3 Seg. 2	0.433	Cranbrook	05G	614885 5464250	614586 5464521
CRPL TA0897	Sec. 4	0.387	Cranbrook	05G	616291 5465426	616075 5465721

2. RESULTS OR STRATEGIES

RESULT OR STRATEGY	HOW THE STRATEGY OR RESULT APPLIES TO THE SITE
Cultural Heritage Resources	The Rocky Mountain Forest Stewardship Plan, Operating Plans #18 and #21 were referred to First Nations, and no traditional use or cultural heritage values were identified for the roads. An Archaeological Impact Assessment (AIA) was completed for a portion of the FSR 9921.01 reconstruction section that overlaps the archaeological potential polygon C36-45. The development is consistent with AIA for this section.

Invasive Plants	Sulphur cinquefoil, bull thistle, and blueweed were identified along the existing roads used to access the proposed blocks or within the blocks themselves. A review of the invasive plants provincial inventory database and mapping system (last updated Jan 5, 2021) also reported diffuse/spotted knapweed mapped near the 9921.01 DM Wardner South FSR. Measures to be carried out to prevent the introduction or spread of invasive plants, as required by the Timber Sales Manager: a. vehicles, mechanized equipment, culverts, bridges and cattle-guards are to be inspected for the presence of soil or plant material, including documentation on inspection forms, prior to being transported to or from work sites and, if present, plant and soil materials are to be removed; b. to reduce the available seedbed for invasive plants: i. grass seed exposed mineral soils on cut and fill slopes of new roads and trails during the first available spring or fall and not more than 12 months following construction; and ii. grass seed exposed soils on all new landings and rehabilitated areas during the first available spring or fall and not more than 12 months following the time of mineral soil exposure, except if the rehabilitated areas are to be revegetated through the planting of trees; and c. where grass seeding is undertaken, utilize high quality seed (a mix recommended by a MFLNRO range specialist, if available; otherwise Canada Common #1 Forage mix or better grade) to ensure that the introduction of invasive plant seed is minimized.
Range	Roads are located in the Chipka Rocky Creek Range Unit. The proposed development is overlapped by three active range tenures: RAN077969, RAN073745, and RAN074387. CRPL TA0897 Sec.3 Seg.1 is along a fenceline and will need to break the fence to cross at 0+385. No natural range barriers or range improvement features were identified through field observations and the FSP advertising and referral process. The Licensee should coordinate their activities with the range tenure holder, and will be responsible to repair any introduced damages to the natural range barriers concurrent with operations, or by the request of the Timber Sales Manager or his/her designate.
Riparian	Riparian assessments have been completed; roads do not cross streams or NCDs. Cross drain culverts, if installed, should maintain natural drainage patterns.
Wildlife - Ungulate Winter Range	Ungulate Winter Range Government Action Regulation Order u-4-006 applies to the development. Block 1 is almost entirely mapped as Managed Forest Dry, while there is approximately 10% mapped as Managed Forest Moist. Field plots determined that the block is more consistent with Dry Forest habitat and will be managed as such. There is currently a 563.7ha and 521.3ha surplus for mature cover and early seral categories, respectively, in the Managed Forest Dry habitat type. The majority of blocks 2-4 are mapped as Managed Forest Moist, while remaining area not classified as Moist is unclassified. Field plots determined this classification to be appropriate for blocks 2-4. They will be managed for as Managed Forest Dry. There is currently a 1027.9ha and 535.7ha surplus for snow interception cover and early seral categories, respectively, in the Managed Forest Moist habitat type. Block 5 is mapped as approx. 50% Managed Forest Moist and 50% Managed Forest Dry habitats. Field plots determined that the block is more consistent with the Dry forest habitat and will be managed as such. The proposed development is consistent with UWR GAR Order 4-006.
Wildlife	CRPL TA0897 Sec. 2 is within low and moderate habitat suitability areas for Williamson Sapsucker and Sec. 3 is in a high habitat suitability area according to the provincial Williamson Sapsucker Habitat Model (2012). The proposed development will be designed in consideration of the current provincial Best Management Practices document for the East Kootenay Area of Occupancy (February 2014).

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ADMINISTRATION

RPF PRINTED NAME	RPF SIGNATURE and SEAL
Chris Britton-Foster - RPF #4995	
DATE SIGNED	
2021/01/19	
I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to standards acceptable of a Registered Professional Forester.	

Map attached forms an integral part of the site plan.

THE FOLLOWING INFORMATION IS ATTACHED FOR INFORMATION ONLY AND DOES NOT FORM PART OF THE SITE PLAN

ROAD NAME	SECTION	LENGTH (km)	LOCATION	SUPPLY BLOCK	UTM EASTING/NORTHING	
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1. VISUAL IMPACT ASSESSMENT

COMMENTS :	The provincial visual landscape inventory (VLI) indicates that the majority of the proposed development overlaps visual sensitivity units (VSUs) with established visual quality objectives (VQOs) of modification, and part of block 5 overlaps a VSU with a VQO of partial retention. The proposed roads are not anticipated to significantly affect achievement of the applicable VQOs based on a preliminary assessment. They will be incorporated into a VIA for the entire proposed development which will be designed to meet the VQOs.

2. ARCHAEOLOGICAL IMPACT ASSESSMENT

DATE	CONSULTANT	RECOMMENDATIONS
Nov 1, 2019	Tipi Mountain Eco-Cultural Servies Ltd (TMECS)	TMECS recommends: "no…resource management requirements are considered necessary or are otherwise required for the forestry development areas, provided that the proposed plans do not extend beyond the areas assessed."
COMMENTS	The proposed development is consistent with the recommendations for the area assessed.	

3. TERRAIN STABILITY ASSESSMENTS (includes gentle over steep)

DATE	CONSULTANT	RECOMMENDATIONS
N/A	N/A	N/A
COMMENTS	No steep areas of or indicators of slope instability are associated with the proposed road system.	

4. AVALANCHE ASSESSMENTS

DATE	CONSULTANT	RECOMMENDATIONS
N/A	N/A	N/A
COMMENTS	No avalanche issues have been identified for the roads.	

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5. WILDLIFE

DATE	CONSULTANT	SPECIES	RECOMMENDATIONS
N/A	N/A	N/A	N/A
COMMENTS	No wildlife issues have been identified for the roads.		

6. RIPARIAN ASSESSMENTS

ROAD SECTION	RIPARIAN ID AND CLASS	RMA WIDTH (m)	COMMENTS (Rationale if within the RMA)
N/A	N/A	N/A	Riparian assessments were completed. A mapped stream was checked; however no stream was present. No riparian issues have been identified for the roads.

7. ECOLOGICAL INFORMATION

ROAD SECTION	LENGTH (m)	BEC ZONE	BEC SUB ZONE	VARIANT /PHASE	SITE SERIES (series - %)	ELEV (avg) m	SLOPE (avg) %	SOIL TEXTURE			
								ROCK %	COARSE %	FINES %	ORGANIC %
FSR 9921.01 DM Wardner South	3203	IDF	dm	2	104 – 100%	1000	20	10	45	45	0
FSR 9921.01 DM Wardner South	1714	IDF	dm	2	101 –85% 104 – 15%	1140	18	5	45	50	0
CRPL TA0897 Sec. 1	448	IDF	dm	2	104 – 100%	1110	15	5	45	50	0
CRPL TA0897 Sec. 2 Seg. 1	172	MS	dw	-	104 – 100%	1235	24	8	42	50	0
CRPL TA0897 Sec. 2 Seg. 2	594	MS	dw	-	104 – 100%	1240	17	5	45	50	0
CRPL TA0897 Sec. 2 Seg. 3	320	MS	dw	-	104 – 100%	1220	40	5	45	50	0
CRPL TA0897 Sec. 3 Seg. 1	433	MS	dw	-	104 – 100%	1270	8	5	30	65	0
CRPL TA0897 Sec. 3 Seg. 2	433	MS	dw	-	104 – 100%	1300	30	5	30	65	0
CRPL TA0897 Sec. 4	387	IDF	dm	2	101 – 100%	1130	12	5	45	50	0

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