



STEWARDSHIP IN FORESTRY

Timber Sale Appraisal Rapid
Salvage
Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$62,032.01	\$235.52	\$62,267.53
		Project Work:	\$0.00
		Advertised Value:	\$62,267.53



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rapid Salvage
Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Timber Description

Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery(%)
Douglas - Fir	26	0	95
Western Hemlock/ Fir	16	0	94
Alder (Red)	15	0	93

Volume by Grade	25	35 & 45 6"-11"	8" -9"	Total
Douglas - Fir	126	41	0	167
Western Hemlock / Fir	8	6	0	14
Alder (Red)	0	0	4	4
Total	134	47	4	185



"STEWAROSH/P-IN FORES-TRY"

Timber Sale Appraisal Rapid
Salvage
Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock/ Fir	100.00%
	Alder (Red)	100.00%
Logging System:	Shovel	Process: Manual Falling/Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature/ Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	10	bd. ft/ load: 4900
cost/ mbf:	\$204.09	
machines:	Shovel Logger	

Comments: Pond Values Used: Local Pond Values, April, 2025.

Expected Log Markets: Mist, Willamina, Clatskanie, Tillamook, Warrenton, Wauna, Longview, WA, and Vancouver, WA.

PRICING:

Western Red Cedar and other Cedars stumpage = pond value - (Douglas-fir) logging cost.
 $\$772.03/\text{MBF} = \$1,180/\text{MBF} - \$407.97/\text{MBF}$

Other Costs (with Profit & Risk to be added):

Additional Felling & Bucking Costs: $\$25/\text{MBF} \times 185 \text{ MBF} = \$4,625$

Additional Move-in Allowance to walk between units:

$1/2 \times \text{Move-in for C325 @ } \$1,610/\text{move-in} = \$805$

Additional Equipment Time for Roadside Salvage and Sorting:

8 hours for C325 loader @ $\$145/\text{hour} = \$1,160$

8 hours for Log Truck @ $\$187.50/\text{hour} = \$1,500$

Machine Washing for Invasive Weed Compliance = $\$2,000$

Ditch Filters (installation and removal):

Bales of straw 4 @ $\$14.00/\text{bale} = \56.00

1 hour of labor @ $\$50/\text{hr} = \50.00

TOTAL Other Costs (with Profit & Risk to be added): $\$10,196.00$

Other Costs (No Profit & Risk added):

None.



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Rapid
Salvage
Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Logging Costs

Operating Seasons: 1.00	Profit Risk: 12%
Project Costs: \$0.00	Other Costs (P/R): \$10,196.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs!

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	5.5
Western Hemlock/ Fir	\$0.00	3.0	4.8
Alder (Red)	\$0.00	2.0	4.0



—SEWARDSHIP/N FORESTRY—

Timber Sale Appraisal Rapid Salvage Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Pamt	Other	Total
Douglas - Fir									
\$204.09	\$0.00	\$23.72	\$79.55	\$55.11	\$43.50	\$0.00	\$2.00	\$0.00	\$407.97
Western Hemlock/ Fir									
\$204.09	\$0.00	\$23.72	\$92.02	\$55.11	\$44.99	\$0.00	\$2.00	\$0.00	\$421.93
Alder (Red)									
\$204.09	\$0.00	\$23.72	\$167.19	\$55.11	\$54.01	\$0.00	\$2.00	\$0.00	\$506.12

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$770.18	\$362.21	\$0.00
Western Hemlock/ Fir	\$0.00	\$532.14	\$110.21	\$0.00
Alder (Red)	\$0.00	\$565.00	\$58.88	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Rapid Salvage

Sale AT-343-2026-W01308-01

District: Astoria

Date: April 22, 2025

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock/ Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	167	\$362.21	\$60,489.07
Western Hemlock/ Fir	14	\$110.21	\$1,542.94
Alder (Red)	4	\$58.88	\$235.52

Gross Timber Sale Value

Recovery: \$62,267.53

Prepared By: Justin Bush

Phone: 503-325-5451

RAPID SALVAGE TIMBER CRUISE REPORT FY 2026

1. **Sale Area Location:** Portions of Sections 19, and 21, T5N, R6W, and Section 24, T5N, R7W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF = 100% Tax Code = 8-01 (100%)
3. **Sale Acreage and Treatments by Unit:**

Unit	Original Cruised Sale Name	Harvest Type	Anticipated Salvage Acres	Survey Method
1	Grand Ball	Clearcut	2	GIS
2	Grand Ball	Salvage/ITS	1	Ocular
3	Wage Earner	Clearcut	1	GIS
TOTAL			4	

4. Cruise Method and Computations:

Volume results were derived from data collected from the (FY23) Grand Ball timber sale cruise and the (FY22) Wage Earner timber sale cruise and were extrapolated to the anticipated salvage area.

Based on field evaluations, Unit 1 volumes were adjusted to approximately 80% of the average tree volume per acre from the Grand Ball timber cruise. This adjustment anticipates defect due to storm damage. Volumes in Unit 2 are based upon an ocular estimate and the average Douglas-fir tree from the younger stand type within the Grand Ball timber cruise (younger Douglas-fir approximately 240 BF/tree). Unit 3 volumes were adjusted to 80% of the average tree volume per acre from the Wage Earner timber cruise. This adjustment anticipates defect due to storm damage.

The cruise estimations were processed in the Astoria District office.

5. Timber Description:

Unit 1 (Clearcut): Unit 1 is a clearcut with an average age of 75 years. The stand consists of Douglas-fir and western hemlock with a minor portion of red alder. The average Douglas-fir is 26 inches DBH and is 97 feet to a merchantable top. The average western hemlock is 15 inches DBH and is 44 feet to a merchantable top. The average red alder is 15 inches DBH and is 43 feet to a merchantable top. Average net volume to be harvested per acre is 45 MBF. This volume is derived from the Grand Ball timber cruise with 80% anticipated recovery. Windstorms have significantly damaged portions of this stand, resulting in several patches of leaning timber and windthrown trees.

Unit 2 (Roadside Salvage/ITS): This is predominantly roadside salvage of areas affected by recent windthrow in and near the Grand Ball timber sale, and is approximately 35 years old, consisting of moderate sized Douglas-fir, western hemlock, and red alder. Windstorms have significantly damaged portions of this stand, resulting in several patches of timber and windthrown trees. Anticipated recovery is approximately 13 MBF of Douglas-fir and 5 MBF of western hemlock.

Unit 3 (Clearcut): Unit 3 is a clearcut with an average age of 81 years. The stand consists of Douglas-fir and minor components of western hemlock and red alder. The average Douglas-fir is approximately 27 inches DBH and 117 feet to a merchantable top. The average western hemlock is approximately 18 inches DBH and 53 feet to a merchantable top. The average red alder is approximately 16 inches DBH and 55 feet to a merchantable top. Average net volume to be harvested per acre is 64 MBF. This volume is derived from the Wage Earner timber cruise with 80% anticipated recovery. Windstorms have significantly damaged portions of this stand, resulting in several patches of leaning timber and windthrown trees.

6. **Statistical Analysis and Stand Summary:** A statistical analysis was not calculated. Volume tables and statistical reports from the Grand Ball timber cruise and the Wage Earner timber cruise are attached as appropriate based upon the estimations made for the Rapid Salvage sale. Acreages have been adjusted to reflect anticipated salvage acres for the Rapid Salvage sale.
7. **Volumes by Species and Sale Areas:** Volumes do not include "in-growth". The total net MBF volumes by species and grade are as follows:

Species	DBH	Net. Vol.	2 Saw	3 Saw	4 Saw	Sale%
Douglas-fir	26"	154	126	25	3	83%
Douglas-fir	19"	13	-	8	5	7%
western hemlock	16"	14	8	4	2	8%
Totals	-	181	134	37	10	

Hardwood

Species	DBH	Net Vol.	% Sale
red alder	15"	4	2%
TOTALS	-	4	

TOTAL VOLUME	185 MBF
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8. **Approvals:**

Prepared by: Justin Bush  Date: April 21, 2025

9. **Attachments:**

Volume Reports (2 pages)
Statistical Reports (2 pages)

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	WAGEX	DATE 4/16/2025					
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
05N	06W	21	RSAL 3	00MC	1.20	61	329	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		61	329	5.4							
CRUISE		24	125	5.2	98	127.5					
DBH COUNT											
REFOREST											
COUNT		36	188	5.2							
BLANKS		1									
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		112	70.2	26.8	117	53.1	274.9	77,586	69,220	15,975	
WHEMLOCK		9	9.1	17.5	53	3.6	15.2	2,549	2,311	599	
R ALDER		4	2.5	16.3	55	0.9	3.6	453	450	127	
TOTAL		125	81.7	25.7	108	58.0	293.7	80,589	71,982	16,701	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL: 68.1 %		COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		62.6	5.9	1,319	1,402	1,484					
WHEMLOCK		96.0	33.9	449	679	909					
R ALDER		97.8	55.9	114	258	401					
TOTAL		67.7	6.1	1,233	1,313	1,392	183	46	20		
CL: 68.1 %		COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		53.4	5.0	294	310	325					
WHEMLOCK		88.6	31.3	114	165	217					
R ALDER		81.6	46.6	37	69	101					
TOTAL		58.4	5.2	276	291	307	136	34	15		
CL: 68.1 %		COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		51.7	6.6	66	70	75					
WHEMLOCK		223.5	28.6	6	9	12					
R ALDER		409.0	52.3	1	2	4					
TOTAL		47.9	6.1	77	82	87	92	23	10		
CL: 68.1 %		COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		43.9	5.6	259	275	290					
WHEMLOCK		198.0	25.3	11	15	19					
R ALDER		380.6	48.7	2	4	5					
TOTAL		39.1	5.0	279	294	308	61	15	7		
CL: 68.1 %		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		43.4	5.6	65,374	69,220	73,066					
WHEMLOCK		215.8	27.6	1,673	2,311	2,949					
R ALDER		404.9	51.8	217	450	684					
TOTAL		40.8	5.2	68,220	71,982	75,743	67	17	7		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	GBALL	DATE				4/16/2025
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
05N	07W	25	RSAL 1	00MC	2.10	64	365	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL			64	365	5.7					
CRUISE			28	174	6.2	247		70.6		
DBH COUNT										
REFOREST										
COUNT			36	191	5.3					
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR		108	53.1	26.0	97	38.4	196.0	47,307	46,819	10,174
R ALDER		22	28.7	14.5	43	8.7	33.1	3,539	3,499	1,044
WHEMLOCK		18	21.9	15.4	44	7.2	28.1	4,078	4,009	1,037
BL MAPLE		26	13.8	16.7	33	5.1	20.8	1,298	1,231	435
TOTAL		174	117.4	20.8	67	60.9	278.0	56,221	55,558	12,690
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %		COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15	
DOUG FIR		57.9	5.6	1,202	1,273	1,344				
R ALDER		61.8	13.5	148	170	193				
WHEMLOCK		117.3	28.4	355	497	638				
BL MAPLE		105.5	21.1	111	141	170				
TOTAL		89.9	6.8	824	884	944	323 81		36	
CL: 68.1 %		COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15	
DOUG FIR		79.3	9.9	48	53	58				
R ALDER		192.0	24.0	22	29	36				
WHEMLOCK		208.3	26.0	16	22	28				
BL MAPLE		214.5	26.8	10	14	17				
TOTAL		61.2	7.6	108	117	126	150 37		17	
CL: 68.1 %		COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15	
DOUG FIR		72.3	9.0	178	196	214				
R ALDER		170.3	21.3	26	33	40				
WHEMLOCK		172.7	21.6	22	28	34				
BL MAPLE		188.8	23.6	16	21	26				
TOTAL		47.2	5.9	262	278	294	89 22		10	
CL: 68.1 %		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15	
DOUG FIR		74.4	9.3	42,471	46,819	51,167				
R ALDER		170.7	21.3	2,753	3,499	4,245				
WHEMLOCK		191.7	23.9	3,049	4,009	4,969				
BL MAPLE		184.7	23.1	947	1,231	1,515				
TOTAL		58.9	7.4	51,475	55,558	59,642	138 35		15	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1			
				Project: RSAL												Date		4/21/2025			
																Time		10:03:48AM			
T05N R06W S21 T00MC																T05N R06W S21 T00MC					
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
05N		06W		21		RSAL_3		00MC		1.20		61		125		1		W			
S So Gr Spp T rt ad			%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln	Dia	Bd		CF/ Lf	
			Net BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf		
D DO CU																	9	23		0.00	3.9
D DO 2S			86	20.8	66,808	52,939	64			28	72		1	2	4	93	38	17	408	2.13	129.8
D DO 3S			13	20.3	10,120	8,064	10		66	5	29		6	8	17	69	33	10	107	0.80	75.6
D DO 4S			1	20.0	659	527	1		100				77	23			19	7	24	0.42	22.4
D Totals			96	20.7	77,586	61,529	75.74		9	25	66		2	3	6	89	34	14	266	1.61	231.7
H DO CU																	8	30		0.00	.2
H DO 2S			72	22.1	1,857	1,447	2			35	65					100	40	17	388	2.12	3.7
H DO 3S			19	20.0	456	365	0		92	8				14	65	21	32	9	83	0.71	4.4
H DO 4S			9	25.3	236	177	0		100				29	71			21	6	22	0.38	7.9
H Totals			3	22.0	2,549	1,988	2		26	27	47		3	9	12	77	28	10	123	1.04	16.2
A DO 1S			37	1.6	173	170	0			23	77			23		77	35	15	300	2.00	.6
A DO 2S			38		169	169	0		100					49		51	32	10	126	1.10	1.3
A DO 3S			13		58	58	0		100					100			30	9	70	0.87	.8
A DO 4S			12		52	52	0		100				100				17	6	21	0.45	2.5
A Totals			1	.6	453	450	0.74		62	9	29		12	40		48	25	9	87	0.99	5.2
Type Totals				20.6	80,589	63,968	77		10	25	65		3	3	6	88	34	14	253	1.57	253.1

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1									
		Project: R SAL										Date 4/21/2025									
												Time 10:03:06AM									
T05N R07W S25 T00MC										T05N R07W S25 T00MC											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
05N	07W	25	RSAL_1	00MC	2.10	64	174	1	W												
S Spp	So T	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln Dia Bd CF/					
				Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft In	Ft	Lf			
D	DO	CU															14	19		0.00	1.7
D	DO	2S	81	20.7	38,416	30,473	64			27	73	0	3	2	94	39	17	410	2.19	74.3	
D	DO	3S	17	21.3	8,276	6,509	14		47	16	37	6	14	10	71	33	10	128	0.99	51.0	
D	DO	4S	2	23.0	615	474	1		98	2		54	30	16		22	7	25	0.44	18.7	
D Totals			83	20.8	47,307	37,455	79		9	25	66	2	6	4	89	34	14	257	1.63	145.7	
A	DO	1S	24	1.1	864	855	2		19	81				16	84	38	13	222	1.54	3.9	
A	DO	2S	29	1.7	1,036	1,018	2		100				24		76	35	11	145	1.18	7.0	
A	DO	3S	22	1.6	763	751	2		81	19			20	19	62	37	10	136	1.04	5.5	
A	DO	4S	25		874	874	2		100			54	17	5	24	21	7	31	0.54	27.8	
A Totals			8	1.1	3,539	3,499	7		76	24		13	15	9	62	27	8	79	0.89	44.3	
H	DO	2S	48	21.3	1,993	1,568	3			29	71			7	93	38	16	332	1.91	4.7	
H	DO	3S	43	21.3	1,725	1,358	3		54	16	30	2	3	21	73	36	9	102	0.82	13.3	
H	DO	4S	9	21.8	360	281	1		100			54	37	9		20	6	22	0.38	13.1	
H Totals			7	21.3	4,078	3,207	7		32	21	47	6	4	13	77	30	9	103	0.91	31.0	
M	DO	CU														13	17		0.00	1.3	
M	DO	1S	49	7.3	657	609	1			61	39	4	40	12	44	32	14	248	2.14	2.5	
M	DO	2S	6		75	75	0		100				100			29	10	108	1.32	.7	
M	DO	3S	16	5.1	200	190	0		100			10	13	24	53	31	9	80	1.07	2.4	
M	DO	4S	29	2.4	365	356	1		100			33	28	17	23	26	7	38	0.64	9.4	
M Totals			3	5.1	1,298	1,231	3		51	30	19	13	36	15	37	27	9	76	0.99	16.3	
Type Totals				19.3	56,221	45,393	95		17	25	58	3	7	5	85	32	12	191	1.39	237.2	

LOGGING PLAN MAP

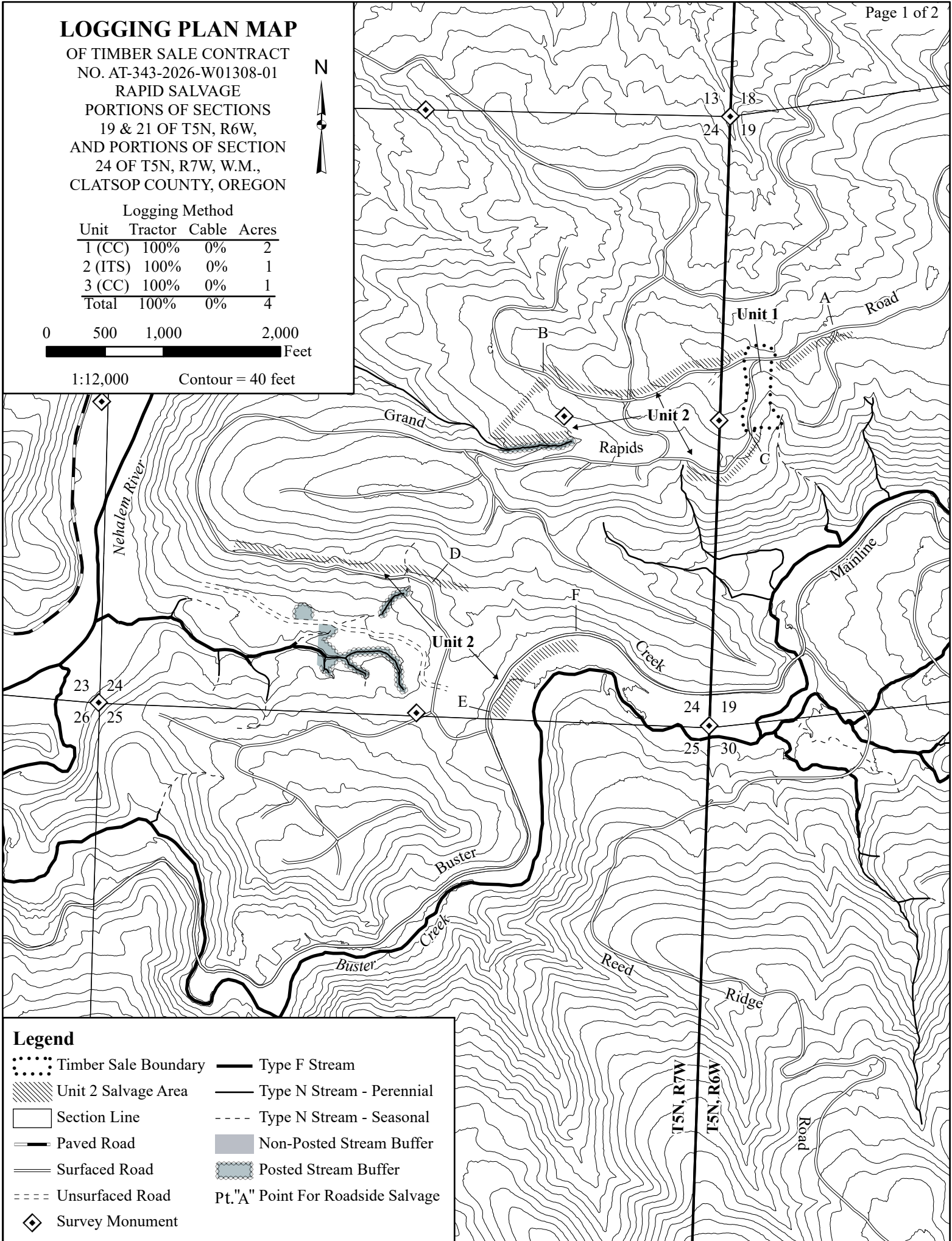
OF TIMBER SALE CONTRACT
NO. AT-343-2026-W01308-01
RAPID SALVAGE
PORTIONS OF SECTIONS
19 & 21 OF T5N, R6W,
AND PORTIONS OF SECTION
24 OF T5N, R7W, W.M.,
CLATSOP COUNTY, OREGON



Logging Method			
Unit	Tractor	Cable	Acres
1 (CC)	100%	0%	2
2 (ITS)	100%	0%	1
3 (CC)	100%	0%	1
Total	100%	0%	4

0 500 1,000 2,000
Feet

1:12,000 Contour = 40 feet



Legend

- Timber Sale Boundary
- ▨ Unit 2 Salvage Area
- ▭ Section Line
- == Paved Road
- == Surfaced Road
- Unsurfaced Road
- ◆ Survey Monument
- Type F Stream
- Type N Stream - Perennial
- Type N Stream - Seasonal
- Non-Posted Stream Buffer
- Posted Stream Buffer
- Pt. "A" Point For Roadside Salvage

LOGGING PLAN MAP

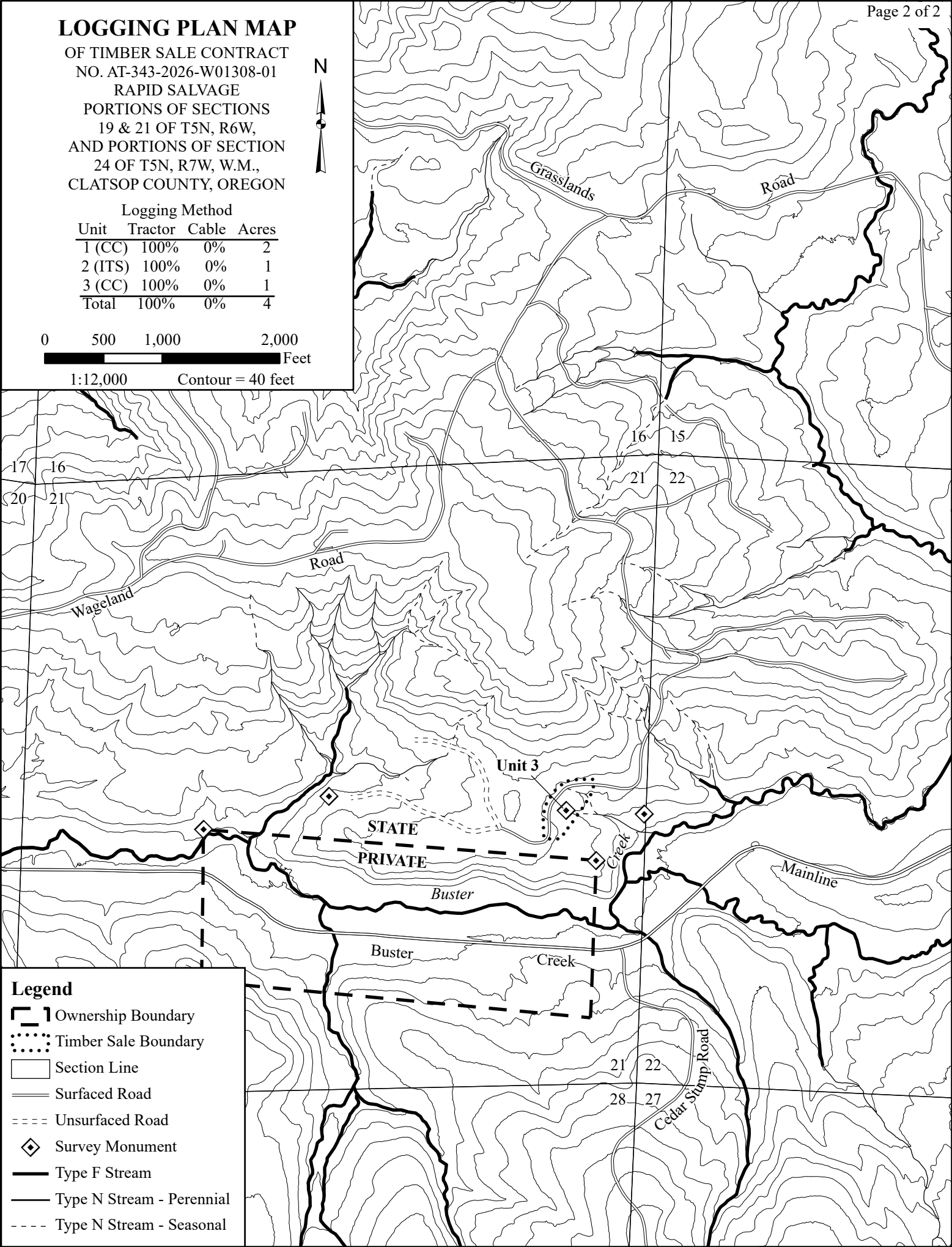
OF TIMBER SALE CONTRACT
NO. AT-343-2026-W01308-01
RAPID SALVAGE
PORTIONS OF SECTIONS
19 & 21 OF T5N, R6W,
AND PORTIONS OF SECTION
24 OF T5N, R7W, W.M.,
CLATSOP COUNTY, OREGON



Logging Method

Unit	Tractor	Cable	Acres
1 (CC)	100%	0%	2
2 (ITS)	100%	0%	1
3 (CC)	100%	0%	1
Total	100%	0%	4

0 500 1,000 2,000
Feet
1:12,000 Contour = 40 feet



Legend

- Ownership Boundary
- Timber Sale Boundary
- Section Line
- Surfaced Road
- Unsurfaced Road
- Survey Monument
- Type F Stream
- Type N Stream - Perennial
- Type N Stream - Seasonal