



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Kilchis Company
Sale TL-341-2026-W00958-01

District: Tillamook

Date: August 26, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,289,661.95	\$6,192.48	\$1,295,854.43
		Project Work:	(\$659,340.00)
		Advertised Value:	\$636,514.43



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Timber Description

Location: Section(s) 35, 36 of T2N R9W, Section(s) 2 of T1N R9W W.M

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	100
Western Hemlock / Fir	21	0	100
Sitka Spruce	22	0	100
Alder (Red)	18	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	816	2,884	0	3,700
Western Hemlock / Fir	115	26	0	141
Sitka Spruce	65	73	0	138
Alder (Red)	0	0	582	582
Total	996	2,983	582	4,561

Comments: Additional Costs – KILCHIS COMPANY
Pond Values Used: February 2025
Region: Astoria, Forest Grove, and Tillamook
Western red cedar and other cedars stumpage price = \$1,278.00/MBF - \$444/MBF = \$834/MBF
Conifer Utility SC and PC = \$342/MBF x .5 = \$171/MBF
Pulp (Conifer and Hardwood) Price = \$2.50/Ton

FUEL COST ALLOWANCE = \$5.00/Gallon
HAULING COST ALLOWANCE (\$120.00/hr x 10 hr. = \$ 1,200.00) = \$1,200/DAY
BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

Other costs with profit and risk added:

TOTAL Other Costs with profit and risk to be added = \$00.00

Other Costs without Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$10/ac x 257 ac. = \$2,570
Heliport Construction: \$200/unit x 3 unit = \$600
Tailhold OR guybacks dozer move-in: \$1,000/machine x 4 machines = \$4,000
TOTAL Other Costs without Profit and Risk added = \$7,170

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 4.561MMBF x \$9/cy x 13.55 miles /4,561 MBF = \$2.44/MBF
Interim Grading: \$1,150/mile x 13.55 miles x 1 times/ 4,561 MBF = \$3.42/MBF
Final Maintenance Grading: \$1,500/mile x 13.55 miles/ 4,561 MBF = \$4.46/MBF
Final Maintenance Compaction: \$900/mile x 6 miles/4,561 MBF = \$1.18/MBF
Total Road Maintenance: = \$11.50/MBF



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Logging Conditions

Combination#: 1

Douglas - Fir	61.35%
Western Hemlock / Fir	72.28%
Sitka Spruce	69.52%
Alder (Red)	54.02%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 7 **bd. ft / load:** 4100

cost / mbf: \$298.92

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

Combination#: 2

Douglas - Fir	38.65%
Western Hemlock / Fir	27.72%
Sitka Spruce	30.48%
Alder (Red)	45.98%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 11 **bd. ft / load:** 4100

cost / mbf: \$190.22

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$659,340.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$7,170.00

Miles of Road

Road Maintenance: \$11.50

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	3.2
Western Hemlock / Fir	\$0.00	3.0	4.2
Sitka Spruce	\$0.00	2.0	4.2
Alder (Red)	\$0.00	2.0	3.4



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$256.91	\$11.50	\$1.92	\$130.21	\$0.00	\$40.05	\$0.00	\$2.00	\$1.57	\$444.16
Western Hemlock / Fir									
\$268.79	\$11.50	\$1.92	\$99.21	\$0.00	\$38.14	\$0.00	\$2.00	\$1.57	\$423.13
Sitka Spruce									
\$265.79	\$11.50	\$1.92	\$148.81	\$0.00	\$42.80	\$0.00	\$2.00	\$1.57	\$474.39
Alder (Red)									
\$248.93	\$11.50	\$1.92	\$183.82	\$0.00	\$44.62	\$0.00	\$2.00	\$1.57	\$494.36

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$786.03	\$341.87	\$0.00
Western Hemlock / Fir	\$0.00	\$556.84	\$133.71	\$0.00
Sitka Spruce	\$0.00	\$517.07	\$42.68	\$0.00
Alder (Red)	\$0.00	\$505.00	\$10.64	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,700	\$341.87	\$1,264,919.00
Western Hemlock / Fir	141	\$133.71	\$18,853.11
Sitka Spruce	138	\$42.68	\$5,889.84
Alder (Red)	582	\$10.64	\$6,192.48

Gross Timber Sale Value

Recovery: \$1,295,854.43

Prepared By: Nathan Atchison

Phone: 971-977-9825



PROJECT SUMMARY SHEET

Sale: Kilchis Company

CONSTRUCTION

Point	U to V	4+70	stations =	\$11,478.74
Point	W to X	34+05	stations =	\$190,820.24
Point	Y to Z	2+90	stations =	\$17,970.97
Point	AA to BB	4+10	stations =	\$9,104.03
Point	CC to DD	3+10	stations =	\$6,325.23
SUBTOTAL CONSTRUCTION				\$235,699.21

IMPROVEMENT

Point	A to B	110+70	stations =	\$45,606.53
Point	C to D	25+95	stations =	\$1,926.56
Point	E to F	9+30	stations =	\$2,002.34
Point	G to H	27+00	stations =	\$3,725.25
Point	I to J	94+05	stations =	\$35,640.74
Point	K to L	5+30	stations =	\$946.32
Point	O to P	7+40	stations =	\$180.56
Point	Q to R	8+00	stations =	\$14,625.48
Point	S to T	11+20	stations =	\$1,236.86
Point	EE to FF	602+10	stations =	\$175,083.52
Point	GG to HH	1+40	stations =	\$894.00
SUBTOTAL IMPROVEMENT				\$281,868.16

RECONSTRUCTION

Point	M to N	5+20	stations =	\$1,971.68
Point	Q to R	32+00	stations =	\$75,615.58
Point	U to V	3+90	stations =	\$8,683.46
SUBTOTAL RECONSTRUCTION				\$86,270.72

SPECIAL PROJECTS

Brush	6.7	miles of road	\$5,963.00
Stockpile	2000.0	Yards of 1 1/2"-0" Crushed rock(A to B)	\$29,580.00
Sawtooth Pit		Pit Development, stripping, enhauling	\$15,950.00

SUBTOTAL SPECIAL PROJECTS **\$51,493.00**

MOVE IN **\$4,008.91**

GRAND TOTAL **\$659,340.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Kilchis Company**

Road: **A to B**

Construction -	0+00 stations	Improvement -	110+70 stations	Reconstruction -	0+00 stations
	0.00 miles		2.10 miles		0.00 miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.255	acres	@	\$955.00	per acre =	\$243.53	
TOTAL CLEARING AND GRUBBING							\$243.53

IMPROVEMENT: EXCAVATION -

Pullback	516	cy.	@	\$2.20	per c.y.=	\$1,135.20	
Widening	1167	cy.	@	\$2.20	per c.y.=	\$2,567.40	
TOTAL EXCAVATION							\$3,702.60

IMPROVEMENT: ENDHAUL -

Pullback	22+15	to	22+95	94	cy.	@	\$2.08	per c.y.=	\$195.52
Pullback	24+00	to	24+20	8	cy.	@	\$2.13	per c.y.=	\$17.04
Pullback	26+25	to	27+10	99	cy.	@	\$1.52	per c.y.=	\$150.48
Pullback	27+10	to	27+85	87	cy.	@	\$1.45	per c.y.=	\$126.15
Pullback	52+75	to	52+95	20	cy.	@	\$1.63	per c.y.=	\$32.60
Pullback	59+25	to	59+80	160	cy.	@	\$1.88	per c.y.=	\$300.80
Pullback	72+50	to	73+15	48	cy.	@	\$2.35	per c.y.=	\$112.80
Widening	22+15	to	23+30	485	cy.	@	\$2.08	per c.y.=	\$1,008.80
Widening	26+15	to	28+60	590	cy.	@	\$1.52	per c.y.=	\$896.80
Widening	72+30	to	73+25	92	cy.	@	\$2.35	per c.y.=	\$216.20
Spread & compact				1683	cy.	@	\$0.55	per c.y.=	\$925.65
TOTAL ENDHAUL									\$3,982.84

CULVERTS - MATERIALS & INSTALLATION

Culverts

90 LF of 18"

\$2,272.50

Culvert Stakes & Markers

3 markers

\$27.00

TOTAL CULVERTS \$2,299.50

ROCK

6+70 to	30+10	410	cy. of	Crushed	@	\$17.50	per c.y.=	\$7,175.00
Spot / Leveling Rock	As directed	300	cy. of	Crushed	@	\$18.50	per c.y.=	\$5,550.00
Spot Rock	9+40	20	cy. of	Jawrun	@	\$17.52	per c.y.=	\$350.40
Widening	22+15	20	cy. of	Jawrun	@	\$17.79	per c.y.=	\$355.80
Widening	22+15	5	cy. of	Crushed	@	\$17.79	per c.y.=	\$88.95
Widening	26+15	10	cy. of	Jawrun	@	\$17.88	per c.y.=	\$178.80
Widening	26+15	5	cy. of	Crushed	@	\$17.88	per c.y.=	\$89.40
Energy Dissipator	0+00	0	cy. of	Rip rap	@	\$0.00	per c.y.=	\$0.00
Energy Dissipator	46+70	20	cy. of	Rip rap	@	\$15.96	per c.y.=	\$319.20
Energy Dissipator	48+50	5	cy. of	Rip rap	@	\$16.00	per c.y.=	\$80.00
Energy Dissipator	52+30	5	cy. of	Rip rap	@	\$16.08	per c.y.=	\$80.40
Culvert Backfill/bedding	55+60	20	cy. of	Crushed	@	\$16.65	per c.y.=	\$333.00
Energy Dissipator	55+60	5	cy. of	Rip rap	@	\$16.15	per c.y.=	\$80.75
Culvert Backfill/bedding	58+30	20	cy. of	Crushed	@	\$18.56	per c.y.=	\$371.20
Energy Dissipator	58+30	5	cy. of	Rip rap	@	\$16.21	per c.y.=	\$81.05
Energy Dissipator	63+30	5	cy. of	Rip rap	@	\$16.31	per c.y.=	\$81.55
Culvert Backfill/bedding	71+25	20	cy. of	Crushed	@	\$16.98	per c.y.=	\$339.60
Energy Dissipator	71+25	5	cy. of	Rip rap	@	\$16.48	per c.y.=	\$82.40
Widening	72+30	10	cy. of	Jawrun	@	\$18.86	per c.y.=	\$188.60
Widening	72+30	5	cy. of	Crushed	@	\$18.86	per c.y.=	\$94.30
Landing Rock	79+10	70	cy. of	Jawrun	@	\$19.00	per c.y.=	\$1,330.00
Landing Rock	83+50	70	cy. of	Jawrun	@	\$19.09	per c.y.=	\$1,336.30
Landing Rock	87+70	30	cy. of	Jawrun	@	\$19.18	per c.y.=	\$575.40
TOTAL ROCK								\$19,162.10

SPECIAL PROJECTS

Construct Jump Up Landing @ station 79+10 -	1.00	@	\$3,715.00	each	\$3,715.00
Construct Landings @ stations 83+50 and 87+70	4.00	hours @	\$385.00	per hour	\$1,540.00
Construct waste areas -	4.00	hours @	\$220.00	per hour	\$880.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Ditch - No Endhaul	7.50	stations @	\$90.00	per station	\$675.00
Ditch - Endhaul	24.80	stations @	\$145.00	per station	\$3,596.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Spot Grade and shape road -	49.15	stations @	\$24.40	per station	\$1,199.26
Endhaul stumps and slash from 83+50 and 87+70	1.50	hours @	\$550.00	per station	\$825.00
Construct 3 waterbars 107+55 to 110+70 -	3.00	@	\$33.00	each	\$99.00
Remove culverts from state lands	1.00	@	\$236.70	total	\$236.70
Sluff Removal	2.00	hours @	\$385.00	per hour	\$770.00
Spot Roll subgrade w/ vibratory roller -	40.00	stations @	\$19.40	per station	\$776.00
Clean culverts	2.00	@	\$25.00	each	\$50.00
Remove large stumps -	2.00	@	\$110.00	each	\$220.00
Slash removal -	2.00	hours @	\$385.00	per hour	\$770.00
Grass seed -	0.60	acres @	\$310.00	per acre	\$186.00
Mulching -	0.200	acres @	\$865.00	per acre	\$173.00
TOTAL SPECIAL PROJECTS					\$16,215.96

GRAND TOTAL \$45,606.53

SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

C to D

Construction -	0+00	stations	Improvement -	25+95	stations	Reconstruction -	0+00	stations
	0.00	miles		0.49	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

Culverts

30	LF of 18"	<u>\$757.50</u>
		\$757.50

Culvert Stakes & Markers

1 markers	\$9.00
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TOTAL CULVERTS	\$766.50
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ROCK

Culvert Backfill/bedding	1+00	20	cy. of	Crushed	@	\$14.62 per c.y.=	\$292.40
Energy Dissipator	1+00	5	cy. of	Rip rap	@	\$14.12 per c.y.=	\$70.60
Spot Rock	As Directed	30	cy. of	Crushed	@	\$14.66 per c.y.=	\$439.80

TOTAL ROCK	\$802.80
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SPECIAL PROJECTS

Ditch - Endhaul	1.00	stations @	\$145.00	per station	\$145.00
Clean culvert	1.00	@	\$25.00	each	\$25.00
Grade and shape road -	6.65	stations @	\$24.40	per station	\$162.26
Clean culverts	1.00	@	\$25.00	each	\$25.00

TOTAL SPECIAL PROJECTS	\$357.26
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GRAND TOTAL	\$1,926.56
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SUMMARY OF CONSTRUCTION COST

Sale:			Kilchis Company			Road:			E to F		
Construction -			0+00 stations			Improvement -			Reconstruction -		
			0.00 miles			9+30 stations			0+00 stations		
						0.18 miles			0.00 miles		

ROCK											
Spot Rock			As Directed			10 cy. of			Crushed @		
Landing Rock			2+30			60 cy. of			Jawrun @		
									\$14.76 per c.y.=		
									\$16.79 per c.y.=		
									\$147.60		
									\$1,007.40		
									TOTAL ROCK		
									\$1,155.00		

SPECIAL PROJECTS											
Construct Landing 2+30			2.00 hours @			\$220.00 per hour			\$440.00		
Grade and shape road -			9.30 stations @			\$24.40 per station			\$226.92		
Roll subgrade			9.30 stations @			\$19.40 per station			\$180.42		
									TOTAL SPECIAL PROJECTS		
									\$847.34		
									GRAND TOTAL		
									\$2,002.34		

SUMMARY OF CONSTRUCTION COST

Sale:			Kilchis Company			Road:			G to H		
Construction -			0+00 stations			Improvement -			Reconstruction -		
			0.00 miles			27+00 stations			0+00 stations		
						0.51 miles			0.00 miles		

ROCK											
Spot Rock			As Directed			50 cy. of			Crushed @		
									\$13.24 per c.y.=		
									\$662.00		
									TOTAL ROCK		
									\$662.00		

SPECIAL PROJECTS											
Remove Ravel @ 9+25			0.25 hours @			\$485.00 per hour			\$121.25		
Reestablish road prism @ 15+40			6.00 hours @			\$220.00 per hour			\$1,320.00		
Construct waste areas -			4.00 hours @			\$220.00 per hour			\$880.00		
Grade and shape road -			5.00 stations @			\$24.40 per station			\$122.00		
Grass seed -			2.00 acres @			\$310.00 per acre			\$620.00		
									TOTAL SPECIAL PROJECTS		
									\$3,063.25		
									GRAND TOTAL		
									\$3,725.25		

SUMMARY OF CONSTRUCTION COST

Sale: **Kilchis Company**

Road: **I to J**

Construction -	0+00	stations	Improvement -	94+05	stations	Reconstruction -	0+00	stations
	0.00	miles		1.78	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.083	acres @	\$955.00	per acre =	\$79.27
Widening	0.098	acres @	\$955.00	per acre =	\$93.59
TOTAL CLEARING AND GRUBBING					\$172.86

IMPROVEMENT: EXCAVATION -

Pullback	451	cy. @	\$2.20	per c.y.=	\$992.20
Widening	515	cy. @	\$2.20	per c.y.=	\$1,133.00
TOTAL EXCAVATION					\$2,125.20

IMPROVEMENT: ENDHAUL -

Pullback	7+00	to	7+50	78	cy. @	\$1.62	per c.y.=	\$126.36
Pullback	7+50	to	8+15	64	cy. @	\$1.64	per c.y.=	\$104.96
Pullback	8+15	to	8+80	101	cy. @	\$1.67	per c.y.=	\$168.67
Pullback	8+80	to	9+85	122	cy. @	\$1.70	per c.y.=	\$207.40
Pullback	60+95	to	61+35	47	cy. @	\$1.97	per c.y.=	\$92.59
Pullback	72+25	to	72+35	23	cy. @	\$2.34	per c.y.=	\$53.82
Pullback	80+10	to	80+30	16	cy. @	\$2.63	per c.y.=	\$42.08
Widening	7+75	to	10+60	515	cy. @	\$1.63	per c.y.=	\$839.45
Spread & compact				966	cy. @	\$0.55	per c.y.=	\$531.30
TOTAL ENDHAUL								\$2,166.63

CULVERTS - MATERIALS & INSTALLATION

Culverts

330	LF of 18"	\$8,332.50	30	LF of 24"	\$1,147.50
		<u>\$8,332.50</u>			<u>\$1,147.50</u>

Culvert Stakes & Markers

13 markers	\$117.00
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TOTAL CULVERTS \$9,597.00

ROCK

Spot / Leveling Rock	As Directed	300	cy. of	Crushed	@	\$13.20	per c.y.=	\$3,960.00
Culvert Backfill/bedding	20yds each	240	cy. of	Crushed	@	\$13.16	per c.y.=	\$3,158.40
Energy Dissipator	5yds each	60	cy. of	Rip rap	@	\$12.66	per c.y.=	\$759.60
Widening	7+75	40	cy. of	Jawrun	@	\$14.51	per c.y.=	\$580.40
Widening	7+75	10	cy. of	Crushed	@	\$14.51	per c.y.=	\$145.10
Rock over ditch	60+95	5	cy. of	Jawrun	@	\$13.34	per c.y.=	\$66.70
Energy Dissipator	62+00	5	cy. of	Rip rap	@	\$12.86	per c.y.=	\$64.30
Energy Dissipator/wall	63+00	30	cy. of	Rip rap	@	\$12.87	per c.y.=	\$386.10
Energy Dissipator/wall	66+40	10	cy. of	Rip rap	@	\$12.92	per c.y.=	\$129.20
Leveling Rock	71+25	20	cy. of	Crushed	@	\$13.28	per c.y.=	\$265.60
TOTAL ROCK								\$9,515.40

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00
Construct ditchouts -	3.00	@	\$60.00	each	\$180.00
Ditch - No Endhaul	24.25	stations @	\$108.00	per station	\$2,619.00
Ditch - Endhaul	25.40	stations @	\$174.00	per station	\$4,419.60
Repair culvert -	0.25	hours @	\$220.00	per hour	\$55.00
Grade and shape road -	62.00	stations @	\$24.40	per station	\$1,512.80
Roll subgrade	62.00	stations @	\$19.40	per station	\$1,202.80
Sluff Removal	2.00	hours @	\$385.00	per hour	\$770.00
Clean culvert	1.00	@	\$33.00	each	\$33.00
Remove culverts from state lands	1.00	@	\$236.70	total	\$236.70
Grass seed -	1.50	acres @	\$310.00	per acre	\$465.00
Mulching -	0.150	acres @	\$865.00	per acre	\$129.75
TOTAL SPECIAL PROJECTS					\$12,063.65

GRAND TOTAL \$35,640.74

SUMMARY OF CONSTRUCTION COST

Sale:			Kilchis Company			Road:			K to L		
Construction -			0+00 stations			Improvement -			5+30 stations		
			0.00 miles						Reconstruction -		
									0+00 stations		
									0.00 miles		

ROCK											
Spot Rock	As Directed	10	cy. of	Jawrun	@	\$12.90	per c.y.=	\$129.00	TOTAL ROCK		
									\$129.00		
									\$129.00		

SPECIAL PROJECTS											
Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00						
Grade and shape road -	5.30	stations @	\$24.40	per station	\$129.32						
Grass seed -	0.80	acres @	\$310.00	per acre	\$248.00						
									TOTAL SPECIAL PROJECTS		
									\$817.32		
									GRAND TOTAL		
									\$946.32		

SUMMARY OF CONSTRUCTION COST

Sale:			Kilchis Company			Road:			M to N		
Construction -			0+00 stations			Improvement -			Reconstruction -		
			0.00 miles			0.00 stations			5+20 stations		
									0.10 miles		

ROCK											
0+00 to			1+00			50 cy. of			Jawrun @		
Intersection Widening			0+00			30 cy. of			Jawrun @		
									\$12.91 per c.y.=		
									\$12.91 per c.y.=		
									\$645.50		
									\$387.30		
									TOTAL ROCK		
									\$1,032.80		

SPECIAL PROJECTS											
Construct waste areas -			2.00			hours @			\$220.00 per hour		
Grade and shape road -			5.20			stations @			\$24.40 per station		
Grass seed -			1.20			acres @			\$310.00 per acre		
									\$440.00		
									\$126.88		
									\$372.00		
									TOTAL SPECIAL PROJECTS		
									\$938.88		
									GRAND TOTAL		
									\$1,971.68		

SUMMARY OF CONSTRUCTION COST

Sale:			Road:		
Kilchis Company			O to P		
Construction -	0+00	stations	Improvement -	7+40	stations
	0.00	miles		0.14	miles
Reconstruction -	0+00	stations			
	0.00	miles			

SPECIAL PROJECTS					
Grade and shape road -	7.40	stations @	\$24.40	per station	\$180.56
TOTAL SPECIAL PROJECTS					\$180.56
GRAND TOTAL					\$180.56

SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

Q to R

Construction -	0+00	stations	Improvement -	8+00	stations	Reconstruction -	32+00	stations
	0.00	miles		0.15	miles		0.61	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.114	acres @	\$955.00	per acre =	\$108.87	
Widening	0.265	acres @	\$955.00	per acre =	\$253.08	
TOTAL CLEARING AND GRUBBING						\$361.95

RECONSTRUCTION: EXCAVATION -

Pullback	383	cy. @	\$2.20	per c.y.=	\$842.60	
Widening	2089	cy. @	\$2.20	per c.y.=	\$4,595.80	
TOTAL EXCAVATION						\$5,438.40

RECONSTRUCTION: ENDHAUL -

Pullback	8+95	to	10+30	156	cy. @	\$3.55	per c.y.=	\$553.80
Pullback	12+25	to	12+40	18	cy. @	\$3.64	per c.y.=	\$65.52
Pullback	25+20	to	26+45	73	cy. @	\$4.13	per c.y.=	\$301.49
Pullback	33+30	to	33+75	26	cy. @	\$4.41	per c.y.=	\$114.66
Pullback	36+25	to	36+85	35	cy. @	\$4.52	per c.y.=	\$158.20
Pullback	37+30	to	39+50	75	cy. @	\$4.58	per c.y.=	\$343.50
Widening	8+95	to	10+80	446	cy. @	\$3.56	per c.y.=	\$1,587.76
Widening	14+55	to	15+45	217	cy. @	\$3.74	per c.y.=	\$811.58
Widening	25+00	to	25+45	407	cy. @	\$4.11	per c.y.=	\$1,672.77
Widening	25+45	to	26+05	361	cy. @	\$4.13	per c.y.=	\$1,490.93
Widening	26+05	to	26+65	217	cy. @	\$4.15	per c.y.=	\$900.55
Widening	27+50	to	28+10	116	cy. @	\$4.20	per c.y.=	\$487.20
Widening	35+80	to	36+70	325	cy. @	\$4.51	per c.y.=	\$1,465.75
Spread & compact				2472	cy. @	\$0.55	per c.y.=	\$1,359.60
TOTAL ENDHAUL								\$11,313.31

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	90	LF of 18"	\$2,272.50	120	LF of 24"	\$4,590.00
<u>Culvert Stakes & Markers</u>	7 markers		\$63.00			
TOTAL CULVERTS						\$6,925.50

ROCK

7+25 to	8+00	60	cy. of	Jawrun	@	\$17.20	per c.y.=	\$1,032.00
8+00 to	40+00	1,780	cy. of	Jawrun	@	\$17.71	per c.y.=	\$31,523.80
Culvert Backfill	11+40	20	cy. of	Crushed	@	\$15.43	per c.y.=	\$308.60
Energy Dissipator	11+40	30	cy. of	Rip Rap	@	\$14.93	per c.y.=	\$447.90
Culvert Backfill	13+00	20	cy. of	Crushed	@	\$15.46	per c.y.=	\$309.20
Energy Dissipator	13+00	5	cy. of	Rip Rap	@	\$14.96	per c.y.=	\$74.80
Culvert Backfill	15+45	20	cy. of	Crushed	@	\$15.51	per c.y.=	\$310.20
Energy Dissipator	15+45	20	cy. of	Rip Rap	@	\$15.01	per c.y.=	\$300.20
Culvert Backfill	17+05	20	cy. of	Crushed	@	\$15.55	per c.y.=	\$311.00
Energy Dissipator	17+05	5	cy. of	Rip Rap	@	\$15.05	per c.y.=	\$75.25
Culvert Backfill	18+00	20	cy. of	Crushed	@	\$15.57	per c.y.=	\$311.40
Energy Dissipator	18+00	5	cy. of	Rip Rap	@	\$15.07	per c.y.=	\$75.35
Stump Removal	18+75	20	cy. of	Jawrun	@	\$15.58	per c.y.=	\$311.60
Rock Buttress	21+35	10	cy. of	Rip Rap	@	\$15.14	per c.y.=	\$151.40
Rock Buttress	21+35	40	cy. of	Jawrun	@	\$15.64	per c.y.=	\$625.60
Culvert Backfill	21+60	20	cy. of	Crushed	@	\$15.64	per c.y.=	\$312.80
Energy Dissipator	21+60	5	cy. of	Rip Rap	@	\$15.14	per c.y.=	\$75.70
Rock Buttress	22+20	10	cy. of	Rip Rap	@	\$15.15	per c.y.=	\$151.50
Rock Buttress	22+20	30	cy. of	Jawrun	@	\$15.65	per c.y.=	\$469.50
Rock Buttress	24+40	10	cy. of	Rip Rap	@	\$15.20	per c.y.=	\$152.00
Rock Buttress	24+40	30	cy. of	Jawrun	@	\$15.70	per c.y.=	\$471.00
Rock Buttress	26+05	10	cy. of	Rip Rap	@	\$15.24	per c.y.=	\$152.40
Rock Buttress	26+05	30	cy. of	Jawrun	@	\$15.74	per c.y.=	\$472.20
Turnaround	30+00	50	cy. of	Jawrun	@	\$15.82	per c.y.=	\$791.00
Culvert Backfill	30+80	20	cy. of	Crushed	@	\$15.14	per c.y.=	\$302.80
Energy Dissipator	30+80	5	cy. of	Rip Rap	@	\$15.34	per c.y.=	\$76.70
Landing Rock	36+25	50	cy. of	Jawrun	@	\$15.95	per c.y.=	\$797.50
TOTAL ROCK								\$40,393.40

SPECIAL PROJECTS

Construct Landings	4.00	hours @	\$220.00	per hour	\$880.00	
Remove ravel and woody debris, and endhaul	30.00	hours @	\$550.00	per hour	\$16,500.00	
Rock Hammering	12.00	hours @	\$275.00	per hour	\$3,300.00	
Ditch - Endhaul	9.10	stations @	\$145.00	per station	\$1,319.50	
Endhaul stumps from landing -	2.00	hours @	\$385.00	per hour	\$770.00	
Grade and shape road -	40.00	stations @	\$24.40	per station	\$976.00	
Roll subgrade w/ vibratory roller prior to rocking -	40.00	stations @	\$19.40	per station	\$776.00	
Road Lowering 15+25 to 16+60	2.00	hours @	\$385.00	per hour	\$770.00	
Remove large stumps -	2.00	lump sum @	\$110.00	each	\$220.00	
Grass seed -	0.40	acres @	\$310.00	per acre	\$124.00	
Mulching -	0.200	acres @	\$865.00	per acre	\$173.00	
TOTAL SPECIAL PROJECTS						\$25,808.50

GRAND TOTAL **\$90,241.06**

SUMMARY OF CONSTRUCTION COST

Sale:			Kilchis Company			Road:			S to T		
Construction -			0+00 stations			Improvement -			11+20 stations		
			0.00 miles						Reconstruction -		
									0+00 stations		
									0.00 miles		

ROCK									
Spot Rock	As Directed	10	cy. of	Crushed	@	\$15.13 per c.y.=	\$151.30		
							TOTAL ROCK	\$151.30	

SPECIAL PROJECTS											
Construct waste areas -					2.00	hours @	\$220.00	per hour	\$440.00		
Grade and shape road -					11.20	stations @	\$24.40	per station	\$273.28		
Roll subgrade w/ vibratory roller prior to rocking -					11.20	stations @	\$19.40	per station	\$217.28		
Grass seed -					0.50	acres @	\$310.00	per acre	\$155.00		
TOTAL SPECIAL PROJECTS										\$1,085.56	
GRAND TOTAL										\$1,236.86	

SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

U to V

Construction -	4+70	stations	Improvement -	0+00	stations	Reconstruction -	3+90	stations
	0.09	miles		0.00	miles		0.07	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
3+90		8+60	10%			\$881	=		\$4,140	\$4,140.00
										TOTAL
										\$4,140.00

RECONSTRUCTION: CLEARING AND GRUBBING -
Widening

0.030	acres @	\$955.00	per acre =	\$28.65	
TOTAL CLEARING AND GRUBBING					\$28.65

RECONSTRUCTION: EXCAVATION -
Widening

502	cy. @	\$2.20	per c.y.=	\$1,104.40	
TOTAL EXCAVATION					\$1,104.40

RECONSTRUCTION: ENDHAUL -

Widening	1+70	to	2+35	502	cy. @	\$2.36	per c.y.=	\$1,184.72	
Spread & compact				502	cy. @	\$0.55	per c.y.=	\$276.10	
TOTAL ENDHAUL									\$1,460.82

ROCK

0+00 to	8+60	490	cy. of	Jawrun	@	\$17.71	per c.y.=	\$8,677.90	
Intersection Widening	0+00	30	cy. of	Jawrun	@	\$17.62	per c.y.=	\$528.60	
Turnaround	3+75	60	cy. of	Jawrun	@	\$17.70	per c.y.=	\$1,062.00	
Landing Rock	8+60	70	cy. of	Jawrun	@	\$17.80	per c.y.=	\$1,246.00	
TOTAL ROCK									\$11,514.50

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00	
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25	
Grade and shape road -	8.60	stations @	\$24.40	per station	\$209.84	
Roll subgrade w/ vibratory roller prior to rocking -	8.60	stations @	\$19.40	per station	\$166.84	
Remove large stumps -	8.00	lump sum @	\$110.00	each	\$880.00	
Grass seed -	0.39	acres @	\$310.00	per acre	\$120.90	
TOTAL SPECIAL PROJECTS						\$1,913.83

GRAND TOTAL **\$20,162.20**

Sale:	Kilchis Company	Road:	W to X					
<u>Construction -</u>	<u>34+05</u> 0.64	stations miles	<u>Improvement -</u>	<u>0+00</u> 0.00	stations miles	<u>Reconstruction -</u>	<u>0+00</u> 0.00	stations miles

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Slope</u>	<u>Avg. Dist. To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		0+80	31%			\$1,613	=		\$820	\$1,290.00
0+80		2+20	119%			\$15,086	=		\$16,300	\$21,120.00
2+20		3+65	68%			\$8,921	=		\$8,235	\$12,935.00
3+65		5+00	98%			\$22,981	=	\$10,335	\$11,610	\$31,025.00
5+00		5+80	72%			\$8,425	=		\$4,305	\$6,740.00
5+80		7+60	47%			\$3,586	=		\$5,770	\$6,455.00
7+60		10+90	11%			\$1,145	=		\$3,365	\$3,780.00
10+90		15+95	35%			\$3,569	=		\$11,840	\$18,025.00
15+95		27+30	15%			\$1,552	=		\$10,835	\$17,610.00
27+30		30+35	65%			\$5,593	=		\$10,230	\$17,060.00
30+35		34+05	31%			\$257	=			\$950.00
									TOTAL	\$136,990.00

TOTAL CULVERTS	\$766.50
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+00	to	34+05	1,880	cy. of	Jawrun	@	\$17.39 per c.y.=	\$32,693.20
Junction Rock		0+00	30	cy. of	Jawrun	@	\$17.03 per c.y.=	\$510.90
Traction Rock		0+65	20	cy. of	Crushed	@	\$17.05 per c.y.=	\$341.00
Traction Rock		3+50	25	cy. of	Crushed	@	\$17.12 per c.y.=	\$428.00
Landing Rock		10+05	50	cy. of	Jawrun	@	\$17.25 per c.y.=	\$862.50
Traction Rock		12+15	10	cy. of	Crushed	@	\$17.29 per c.y.=	\$172.90
Landing Rock		14+35	70	cy. of	Jawrun	@	\$17.34 per c.y.=	\$1,213.80
Traction Rock		15+10	20	cy. of	Crushed	@	\$17.35 per c.y.=	\$347.00
Landing Rock		19+40	60	cy. of	Jawrun	@	\$17.44 per c.y.=	\$1,046.40
Traction Rock		21+95	10	cy. of	Crushed	@	\$17.50 per c.y.=	\$175.00
Landing Rock		26+15	70	cy. of	Jawrun	@	\$17.59 per c.y.=	\$1,231.30
Landing Rock		34+05	70	cy. of	Jawrun	@	\$17.75 per c.y.=	\$1,242.50
Energy Dissipator		0+75	5	cy. of	Rip Rap	@	\$17.05 per c.y.=	\$85.25
TOTAL ROCK								\$40,349.75

Construct waste areas -	4.00	hours @	\$220.00	per hour	\$880.00
Construct fill 10+05 to 11+15	1.00	@	\$220.00	each	\$220.00
Endhaul stumps from landing -	3.00	hours @	\$385.00	per hour	\$1,155.00
Grade and shape road -	34.05	stations @	\$24.40	per station	\$830.82
Roll subgrade w/ vibratory roller prior to rocking -	34.05	stations @	\$19.40	per station	\$660.57
Remove large stumps -	76.00	lump sum @	\$110.00		\$8,360.00
Grass seed -	1.96	acres @	\$310.00	per acre	\$607.60
				TOTAL SPECIAL PROJECTS	\$12,713.99

GRAND TOTAL	\$190,820.24
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SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

Y to Z

<u>Construction -</u>	<u>2+90</u>	<u>stations</u>	<u>Improvement -</u>	<u>0+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	<u>0.05</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		0+55	38%			\$3,100	=		\$1,125	\$1,705.00
0+55		1+30	48%			\$3,200	=		\$1,630	\$2,400.00
1+30		2+90	17%			\$4,528	=		\$4,780	\$7,245.00
									TOTAL	\$11,350.00

ROCK

0+00	to	2+90	180	cy. of	Jawrun	@	\$17.20	per c.y.=	\$3,096.00	
0+75	to	1+30	10	cy. of	Crushed	@	\$17.19	per c.y.=	\$171.90	
Intersection Widening		0+00	30	cy. of	Jawrun	@	\$17.17	per c.y.=	\$515.10	
Landing Rock		2+90	60	cy. of	Jawrun	@	\$17.24	per c.y.=	\$1,034.40	
									TOTAL ROCK	\$4,817.40

SPECIAL PROJECTS

Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25	
Grade and shape road -	2.90	stations @	\$24.40	per station	\$70.76	
Roll subgrade w/ vibratory roller prior to rocking -	2.90	stations @	\$19.40	per station	\$56.26	
Remove large stumps -	14.00	lump sum @	\$110.00		\$1,540.00	
Grass seed -	0.13	acres @	\$310.00	per acre	\$40.30	
					TOTAL SPECIAL PROJECTS	\$1,803.57

GRAND TOTAL **\$17,970.97**

Sale:	Kilchis Company	Road:	AA to BB		
Construction - <u>4+10</u> 0.08	stations miles	Improvement - <u>0+00</u> 0.00	stations miles	Reconstruction - <u>0+00</u> 0.00	stations miles

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		<u>Drill & Shoot</u>	<u>Endhaul</u>
0+00		1+80	29%			\$229	=		\$412.20
1+80		4+10	9%			\$103	=		\$236.90
TOTAL									\$649.10

0+00 to 4+10	220	cy. of	Jawrun	@	\$17.73 per c.y.=	\$3,900.60
0+60 to 3+55	40	cy. of	Crushed	@	\$17.73 per c.y.=	\$709.20
Intersection Widening 0+00 to 4+10	50	cy. of	Jawrun	@	\$17.69 per c.y.=	\$884.50
Landing Rock	70	cy. of	Jawrun	@	\$17.77 per c.y.=	\$1,243.90
TOTAL ROCK						\$6,738.20

Construct Landings	2.00	hours @	\$220.00	per hour	\$440.00
Construct Waste area -	1.00	hours @	\$220.00	per hour	\$220.00
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25
Grade and shape road -	4.10	stations @	\$24.40	per station	\$100.04
Roll subgrade w/ vibratory roller prior to rocking -	4.10	stations @	\$19.40	per station	\$79.54
Remove large stumps -	6.00	lump sum @	\$110.00		\$660.00
Grass seed -	0.39	acres @	\$310.00	per acre	\$120.90
TOTAL SPECIAL PROJECTS					\$1,716.73

GRAND TOTAL	\$9,104.03
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SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

CC to DD

<u>Construction -</u>	<u>3+10</u>	<u>stations</u>	<u>Improvement -</u>	<u>0+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	<u>0.06</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		0+80	22%			\$193	=			\$154.40
0+80		1+90	34%			\$265	=			\$291.50
1+90		3+10	21%			\$193	=			\$231.60

SUMMARY OF CONSTRUCTION COST

Sale:

Kilchis Company

Road:

EE to FF

Construction -	0+00	stations	Improvement -	602+10	stations	Reconstruction -	0+00	stations
	0.00	miles		11.40	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.109	acres @	\$955.00	per acre =	\$104.10	
Widening	0.182	acres @	\$955.00	per acre =	\$173.81	
TOTAL CLEARING AND GRUBBING						\$277.91

IMPROVEMENT: EXCAVATION -

Pullback	606	cy. @	\$2.20	per c.y.=	\$1,333.20	
Widening	658	cy. @	\$2.20	per c.y.=	\$1,447.60	
TOTAL EXCAVATION						\$2,780.80

IMPROVEMENT: ENDHAUL -

Pullback	162+30	to	162+70	35	cy. @	\$1.67	per c.y.=	\$58.45
Pullback	172+15	to	172+50	21	cy. @	\$1.86	per c.y.=	\$39.06
Pullback	193+35	to	194+05	101	cy. @	\$1.44	per c.y.=	\$145.44
Pullback	207+40	to	207+75	14	cy. @	\$3.25	per c.y.=	\$45.50
Pullback	307+50	to	307+95	49	cy. @	\$1.88	per c.y.=	\$92.12
Pullback	308+75	to	309+05	44	cy. @	\$1.84	per c.y.=	\$80.96
Pullback	314+20	to	314+50	26	cy. @	\$1.64	per c.y.=	\$42.64
Rock Buttress	339+90	to	340+25	14	cy. @	\$2.62	per c.y.=	\$36.68
Rock Buttress	356+80	to	357+15	203	cy. @	\$2.60	per c.y.=	\$527.80
Rock Buttress	401+40	to	402+25	99	cy. @	\$3.22	per c.y.=	\$318.78
Pullback	439+75	to	440+05	26	cy. @	\$1.68	per c.y.=	\$43.68
Pullback	494+40	to	494+75	10	cy. @	\$1.21	per c.y.=	\$12.10
Rock Buttress	508+70	to	509+00	26	cy. @	\$1.49	per c.y.=	\$38.74
Pullback	574+90	to	575+40	16	cy. @	\$2.13	per c.y.=	\$34.08
Widening	161+70	to	163+55	94	cy. @	\$1.67	per c.y.=	\$156.98
Widening	192+75	to	194+65	69	cy. @	\$1.44	per c.y.=	\$99.36
Widening	206+75	to	208+00	64	cy. @	\$3.25	per c.y.=	\$208.00
Widening	308+55	to	310+25	82	cy. @	\$1.82	per c.y.=	\$149.24
Widening	314+00	to	315+55	150	cy. @	\$1.63	per c.y.=	\$244.50
Widening	574+60	to	575+70	199	cy. @	\$2.98	per c.y.=	\$593.02
Spread & compact				1342	cy. @	\$0.55	per c.y.=	\$738.10
TOTAL ENDHAUL								\$3,705.23

CULVERTS - MATERIALS & INSTALLATION

Culverts

710	LF of 18"	\$17,170.00	100	LF of 24"	\$3,825.00
			40	LF of 36"	\$2,121.62
			40	LF of 48"	\$3,955.20

Culvert Stakes & Markers

35 markers	\$315.00
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TOTAL CULVERTS \$27,386.82

ROCK

354+35	to	472+90	1,410	cy. of	Crushed	@	\$18.22	per c.y.=	\$25,690.20
472+90	to	602+10	1,530	cy. of	Crushed	@	\$15.60	per c.y.=	\$23,868.00
Culvert Backfill/bedding		21+30	30	cy. of	Crushed	@	\$24.68	per c.y.=	\$740.40
Energy Dissipator		21+30	5	cy. of	Rip Rap	@	\$24.18	per c.y.=	\$120.90
Energy Dissipator		43+00	5	cy. of	Rip Rap	@	\$23.72	per c.y.=	\$118.60
Energy Dissipator		45+25	5	cy. of	Rip Rap	@	\$23.67	per c.y.=	\$118.35
Culvert Backfill/bedding		66+60	10	cy. of	Crushed	@	\$23.72	per c.y.=	\$237.20
Culvert Backfill/bedding(30'	60+10 to 354+55		450	cy. of	Crushed	@	\$20.74	per c.y.=	\$9,333.00
Energy Dissipator(5yd each	60+10 to 354+55		75	cy. of	Rip Rap	@	\$20.24	per c.y.=	\$1,518.00
Culvert Removal		162+05	35	cy. of	Crushed	@	\$21.69	per c.y.=	\$759.15
Road Widening		161+70	10	cy. of	Jawrun	@	\$23.54	per c.y.=	\$235.40
Road Widening		161+70	5	cy. of	Crushed	@	\$23.42	per c.y.=	\$117.10
Energy Dissipator		168+20	5	cy. of	Rip Rap	@	\$20.98	per c.y.=	\$104.90
Fill Armor		172+50	20	cy. of	Rip Rap	@	\$20.53	per c.y.=	\$410.60
Road Widening		192+75	15	cy. of	Jawrun	@	\$22.88	per c.y.=	\$343.20
Road Widening		192+75	10	cy. of	Crushed	@	\$22.59	per c.y.=	\$225.90
Road Widening		206+75	15	cy. of	Jawrun	@	\$22.59	per c.y.=	\$338.85
Road Widening		206+75	10	cy. of	Crushed	@	\$21.87	per c.y.=	\$218.70
Buttress & Energy Dissipatc		241+45	70	cy. of	Rip Rap	@	\$19.33	per c.y.=	\$1,353.10
Energy Dissipator		250+35	5	cy. of	Rip Rap	@	\$18.86	per c.y.=	\$94.30
Energy Dissipator		272+55	5	cy. of	Rip Rap	@	\$18.09	per c.y.=	\$90.45
Road Widening		308+55	15	cy. of	Jawrun	@	\$20.44	per c.y.=	\$306.60
Road Widening		308+55	10	cy. of	Crushed	@	\$20.33	per c.y.=	\$203.30
Road Widening		314+00	15	cy. of	Jawrun	@	\$20.33	per c.y.=	\$304.95
Road Widening		314+00	10	cy. of	Crushed	@	\$20.21	per c.y.=	\$202.10
Culvert Removal		314+20	25	cy. of	Crushed	@	\$18.36	per c.y.=	\$459.00
Energy Dissipator		319+75	20	cy. of	Rip Rap	@	\$17.86	per c.y.=	\$357.20
Backfill		319+75	60	cy. of	Jawrun	@	\$17.57	per c.y.=	\$1,054.20
Bedding/Backfill		319+75	60	cy. of	Crushed	@	\$17.57	per c.y.=	\$1,054.20
Rock Buttress		339+90	20	cy. of	Rip Rap	@	\$16.71	per c.y.=	\$334.20
Rock Buttress		339+90	20	cy. of	Crushed	@	\$18.48	per c.y.=	\$369.60
Rock Buttress		356+80	190	cy. of	Rip Rap	@	\$16.13	per c.y.=	\$3,064.70
Rock Buttress		356+80	30	cy. of	Crushed	@	\$18.30	per c.y.=	\$549.00
Energy Dissipator		374+05	10	cy. of	Rip Rap	@	\$15.32	per c.y.=	\$153.20

Rock Butress	401+40	115	cy. of	Rip Rap	@	\$15.32 per c.y.=	\$1,761.80
Rock Butress	401+40	20	cy. of	Crushed	@	\$16.81 per c.y.=	\$336.20
Energy Dissipator	409+80	5	cy. of	Rip Rap	@	\$14.22 per c.y.=	\$71.10
Energy Dissipator	480+30	10	cy. of	Rip Rap	@	\$14.16 per c.y.=	\$141.60
Energy Dissipator	491+70	5	cy. of	Rip Rap	@	\$14.16 per c.y.=	\$70.80
Rock Butress	508+70	40	cy. of	Rip Rap	@	\$13.86 per c.y.=	\$554.40
Rock Butress	508+70	20	cy. of	Crushed	@	\$16.21 per c.y.=	\$324.20
Backfill	510+55	260	cy. of	Jawrun	@	\$18.36 per c.y.=	\$4,773.60
Bedding/Backfill	510+55	60	cy. of	Crushed	@	\$18.36 per c.y.=	\$1,101.60
Energy Dissipator	554+25	10	cy. of	Rip Rap	@	\$13.75 per c.y.=	\$137.50
Energy Dissipator	558+60	10	cy. of	Rip Rap	@	\$13.75 per c.y.=	\$137.50
Butress/Energy Dissipator	571+60	40	cy. of	Rip Rap	@	\$12.98 per c.y.=	\$519.20
Road Widening	574+60	10	cy. of	Jawrun	@	\$15.24 per c.y.=	\$152.40
Road Widening	574+60	5	cy. of	Crushed	@	\$15.15 per c.y.=	\$75.75
Energy Dissipator	596+05	5	cy. of	Rip Rap	@	\$12.53 per c.y.=	\$62.65
Culvert Backfill/bedding(20	354+55 to 602+10	240	cy. of	Crushed	@	\$12.96 per c.y.=	\$3,110.40
Energy Dissipator(5yd each	354+55 to 602+10	60	cy. of	Rip Rap	@	\$12.45 per c.y.=	\$747.00
Turnout Hardening	As directed	120	cy. of	Jawrun	@	\$12.96 per c.y.=	\$1,555.20
Waste Area Approaches	527+50	60	cy. of	Jawrun	@	\$14.80 per c.y.=	\$888.00
Spot Rock	As directed	100	cy. of	Crushed	@	\$13.89 per c.y.=	\$1,389.00
TOTAL ROCK							\$92,612.65

SPECIAL PROJECTS

Construct Catchbasins -	22.00	@	\$60.00	each	\$1,320.00
Construct waste areas -	4.00	hours @	\$220.00	per hour	\$880.00
Construct ditchouts -	9.00	@	\$60.00	each	\$540.00
Clear stockpile site @ 598+40	1.00	hours @	\$220.00	per hour	\$220.00
Ditch - No Endhaul	76.65	stations @	\$90.00	per station	\$6,898.50
Ditch - Endhaul	80.90	stations @	\$145.00	per station	\$11,730.50
Clean Culverts -	10.00	@	\$30.00	each	\$300.00
Grade and shape road -	602.10	stations @	\$24.40	per station	\$14,691.24
Sluff & Culvert waste endhaul	8.00	hours @	\$385.00	per hour	\$3,080.00
Rock Hammering	8.00	@	\$275.00	each	\$2,200.00
Roll subgrade w/ vibratory roller prior to rocking(354+35 to 472+90) -	118.55	stations @	\$19.40	per station	\$2,299.87
Remove flume 357+00	1.00	@	\$130.00	each	\$130.00
Remove culverts from state lands	8.00	@	\$750.00	total	\$750.00
Grass seed -	5.00	acres @	\$310.00	per acre	\$1,550.00
Mulching -	2.000	acres @	\$865.00	per acre	\$1,730.00
TOTAL SPECIAL PROJECTS					\$48,320.11
GRAND TOTAL					\$175,083.52

SUMMARY OF CONSTRUCTION COST

Sale:			Road:		
Kilchis Company			GG to HH		
Construction -	0+00	stations	Improvement -	1+40	stations
	0.00	miles		0.03	miles
Reconstruction -	0+00	stations			
	0.00	miles			

SPECIAL PROJECTS					
Fill in and rebuild tank trap	0.50	hours @	\$220.00	per hour	\$110.00
Clean road	1.00	hours @	\$220.00	per hour	\$220.00
Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00
Grass seed -	0.40	acres @	\$310.00	per acre	\$124.00
TOTAL SPECIAL PROJECTS					\$894.00
GRAND TOTAL					\$894.00

SAWTOOTH PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Sawtooth Pit	Location:	Sec. 26 , T2N, R9W, W.M.
Sale:	Kilchis Company	Road:	15750 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	15750 c.y.
Drill Pct.:	100%	In Place Total:	11250 c.y.

Drill & Shoot:	\$3.60 /cu.yd.	x	11250 cu.yds.	=	\$40,500.00
Sort Rip Rap	\$1.20 /cu.yd.	x	1035 cu.yds.	=	\$1,242.00
Load Crusher:	\$1.20 /cu.yd.	x	14615 cu.yds.	=	\$17,538.00
Crush Rock(1.5"-0"):	\$5.20 /cu.yd.	x	7760 cu.yds.	=	\$40,352.00
Crush Rock(4"-0"):	\$4.00 /cu.yd.	x	6855 cu.yds.	=	\$27,420.00
Load Dump Truck:	\$1.20 /cu.yd.	x	15750 cu.yds.	=	\$18,900.00

Subtotal \$145,952.00

Move In/Set-up Crusher	1	@	\$6,157.41	=	\$6,157.41
Move In and set up Drill and Compressor	1	@	\$517.04	=	\$517.04
Move in Roller and Compactor	1	@	\$454.60	=	\$454.60
Move in D-8	1	@	\$615.74	=	\$615.74
Move in Loader	1	@	\$480.14	=	\$480.14
Move in Excavator	1	@	\$595.14	=	\$595.14
Move in Trucks	4	@	\$181.90	=	\$727.60
			Subtotal		\$9,547.67

TOTAL PRODUCTION COSTS \$155,499.67

Base Cost= \$9.87 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base/load Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 670 3010 (Crushed)	4.43	3.20	9.87	17.50	410	\$7,175.00
A to B Spot / Leveling Rock (Crushed)	5.08	3.55	9.87	18.50	300	\$5,550.00
A to B Spot Rock (Jawrun)	4.10	3.55	9.87	17.52	20	\$350.40
A to B Widening (Jawrun)	4.37	3.55	9.87	17.79	20	\$355.80
A to B Widening (Crushed)	4.37	3.55	9.87	17.79	5	\$88.95
A to B Widening (Jawrun)	4.46	3.55	9.87	17.88	10	\$178.80
A to B Widening (Crushed)	4.46	3.55	9.87	17.88	5	\$89.40
A to B Energy Dissipator (Rip rap)	4.89	1.20	9.87	15.96	20	\$319.20
A to B Energy Dissipator (Rip rap)	4.93	1.20	9.87	16.00	5	\$80.00
A to B Energy Dissipator (Rip rap)	5.01	1.20	9.87	16.08	5	\$80.40
A to B Culvert Backfill/bedding (Crushed)	5.08	1.70	9.87	16.65	20	\$333.00
A to B Energy Dissipator (Rip rap)	5.08	1.20	9.87	16.15	5	\$80.75
A to B Culvert Backfill/bedding (Crushed)	5.14	3.55	9.87	18.56	20	\$371.20
A to B Energy Dissipator (Rip rap)	5.14	1.20	9.87	16.21	5	\$81.05
A to B Energy Dissipator (Rip rap)	5.24	1.20	9.87	16.31	5	\$81.55
A to B Culvert Backfill/bedding (Crushed)	5.41	1.70	9.87	16.98	20	\$339.60
A to B Energy Dissipator (Rip rap)	5.41	1.20	9.87	16.48	5	\$82.40
A to B Widening (Jawrun)	5.44	3.55	9.87	18.86	10	\$188.60
A to B Widening (Crushed)	5.44	3.55	9.87	18.86	5	\$94.30
A to B Landing Rock (Jawrun)	5.58	3.55	9.87	19.00	70	\$1,330.00
A to B Landing Rock (Jawrun)	5.67	3.55	9.87	19.09	70	\$1,336.30
A to B Landing Rock (Jawrun)	5.76	3.55	9.87	19.18	30	\$575.40
C to D Culvert Backfill/bedding (Crushed)	3.05	1.70	9.87	14.62	20	\$292.40
C to D Energy Dissipator (Rip rap)	3.05	1.20	9.87	14.12	5	\$70.60
C to D Spot Rock (Crushed)	3.29	1.50	9.87	14.66	30	\$439.80
E to F Spot Rock (Crushed)	3.39	1.50	9.87	14.76	10	\$147.60
E to F Landing Rock (Jawrun)	3.37	3.55	9.87	16.79	60	\$1,007.40
G to H Spot Rock (Crushed)	1.87	1.50	9.87	13.24	50	\$662.00
I to J Spot / Leveling Rock (Crushed)	1.83	1.50	9.87	13.20	300	\$3,960.00
I to J Culvert Backfill/bedding (Crushed)	1.59	1.70	9.87	13.16	240	\$3,158.40
I to J Energy Dissipator (Rip rap)	1.59	1.20	9.87	12.66	60	\$759.60
I to J Widening (Jawrun)	1.09	3.55	9.87	14.51	40	\$580.40
I to J Widening (Crushed)	1.09	3.55	9.87	14.51	10	\$145.10
I to J Rock over ditch (Jawrun)	1.77	1.70	9.87	13.34	5	\$66.70
I to J Energy Dissipator (Rip rap)	1.79	1.20	9.87	12.86	5	\$64.30
I to J Energy Dissipator/wall (Rip rap)	1.80	1.20	9.87	12.87	30	\$386.10
I to J Energy Dissipator/wall (Rip rap)	1.85	1.20	9.87	12.92	10	\$129.20
I to J Leveling Rock (Crushed)	1.91	1.50	9.87	13.28	20	\$265.60

K to L Spot Rock (Jawrun)	1.53	1.50	9.87	12.90	10	\$129.00
M to N 0 100 (Jawrun)	1.54	1.50	9.87	12.91	50	\$645.50
M to N Intersection Widening (Jawrun)	1.54	1.50	9.87	12.91	30	\$387.30
Q to R 725 800 (Jawrun)	3.78	3.55	9.87	17.20	60	\$1,032.00
Q to R 800 4000 (Jawrun)	4.29	3.55	9.87	17.71	1780	\$31,523.80
Q to R Culvert Backfill (Crushed)	3.86	1.70	9.87	15.43	20	\$308.60
Q to R Energy Dissipator (Rip Rap)	3.86	1.20	9.87	14.93	30	\$447.90
Q to R Culvert Backfill (Crushed)	3.89	1.70	9.87	15.46	20	\$309.20
Q to R Energy Dissipator (Rip Rap)	3.89	1.20	9.87	14.96	5	\$74.80
Q to R Culvert Backfill (Crushed)	3.94	1.70	9.87	15.51	20	\$310.20
Q to R Energy Dissipator (Rip Rap)	3.94	1.20	9.87	15.01	20	\$300.20
Q to R Culvert Backfill (Crushed)	3.98	1.70	9.87	15.55	20	\$311.00
Q to R Energy Dissipator (Rip Rap)	3.98	1.20	9.87	15.05	5	\$75.25
Q to R Culvert Backfill (Crushed)	4.00	1.70	9.87	15.57	20	\$311.40
Q to R Energy Dissipator (Rip Rap)	4.00	1.20	9.87	15.07	5	\$75.35
Q to R Stump Removal (Jawrun)	4.01	1.70	9.87	15.58	20	\$311.60
Q to R Rock Buttress (Rip Rap)	4.07	1.20	9.87	15.14	10	\$151.40
Q to R Rock Buttress (Jawrun)	4.07	1.70	9.87	15.64	40	\$625.60
Q to R Culvert Backfill (Crushed)	4.07	1.70	9.87	15.64	20	\$312.80
Q to R Energy Dissipator (Rip Rap)	4.07	1.20	9.87	15.14	5	\$75.70
Q to R Rock Buttress (Rip Rap)	4.08	1.20	9.87	15.15	10	\$151.50
Q to R Rock Buttress (Jawrun)	4.08	1.70	9.87	15.65	30	\$469.50
Q to R Rock Buttress (Rip Rap)	4.13	1.20	9.87	15.20	10	\$152.00
Q to R Rock Buttress (Jawrun)	4.13	1.70	9.87	15.70	30	\$471.00
Q to R Rock Buttress (Rip Rap)	4.17	1.20	9.87	15.24	10	\$152.40
Q to R Rock Buttress (Jawrun)	4.17	1.70	9.87	15.74	30	\$472.20
Q to R Turnaround (Jawrun)	4.25	1.70	9.87	15.82	50	\$791.00
Q to R Culvert Backfill (Crushed)	4.27	1.00	9.87	15.14	20	\$302.80
Q to R Energy Dissipator (Rip Rap)	4.27	1.20	9.87	15.34	5	\$76.70
Q to R Landing Rock (Jawrun)	4.38	1.70	9.87	15.95	50	\$797.50
S to T Spot Rock (Crushed)	3.76	1.50	9.87	15.13	10	\$151.30
U to V 0 860 (Jawrun)	4.29	3.55	9.87	17.71	490	\$8,677.90
U to V Intersection Widening (Jawrun)	4.20	3.55	9.87	17.62	30	\$528.60
U to V Turnaround (Jawrun)	4.28	3.55	9.87	17.70	60	\$1,062.00
U to V Landing Rock (Jawrun)	4.38	3.55	9.87	17.80	70	\$1,246.00
W to X 0 3405 (Jawrun)	3.97	3.55	9.87	17.39	1880	\$32,693.20
W to X Junction Rock (Jawrun)	3.61	3.55	9.87	17.03	30	\$510.90
W to X Traction Rock (Crushed)	3.63	3.55	9.87	17.05	20	\$341.00
W to X Traction Rock (Crushed)	3.70	3.55	9.87	17.12	25	\$428.00
W to X Landing Rock (Jawrun)	3.83	3.55	9.87	17.25	50	\$862.50
W to X Traction Rock (Crushed)	3.87	3.55	9.87	17.29	10	\$172.90
W to X Landing Rock (Jawrun)	3.92	3.55	9.87	17.34	70	\$1,213.80
W to X Traction Rock (Crushed)	3.93	3.55	9.87	17.35	20	\$347.00
W to X Landing Rock (Jawrun)	4.02	3.55	9.87	17.44	60	\$1,046.40
W to X Traction Rock (Crushed)	4.08	3.55	9.87	17.50	10	\$175.00
W to X Landing Rock (Jawrun)	4.17	3.55	9.87	17.59	70	\$1,231.30
W to X Landing Rock (Jawrun)	4.33	3.55	9.87	17.75	70	\$1,242.50
W to X Energy Dissipator (Rip Rap)	3.63	3.55	9.87	17.05	5	\$85.25
Y to Z 0 290 (Jawrun)	3.78	3.55	9.87	17.20	180	\$3,096.00
Y to Z 75 130 (Crushed)	3.77	3.55	9.87	17.19	10	\$171.90
Y to Z Intersection Widening (Jawrun)	3.75	3.55	9.87	17.17	30	\$515.10
Y to Z Landing Rock (Jawrun)	3.82	3.55	9.87	17.24	60	\$1,034.40
AA to BB 0 410 (Jawrun)	4.31	3.55	9.87	17.73	220	\$3,900.60
AA to BB 60 355 (Crushed)	4.31	3.55	9.87	17.73	40	\$709.20
AA to BB Intersection Widening (Jawrun)	4.27	3.55	9.87	17.69	50	\$884.50
AA to BB Landing Rock (Jawrun)	4.35	3.55	9.87	17.77	70	\$1,243.90
CC to DD 0 310 (Jawrun)	4.34	3.55	9.87	17.76	170	\$3,019.20
CC to DD 80 190 (Crushed)	4.34	3.55	9.87	17.76	20	\$355.20
CC to DD Intersection Widening (Jawrun)	4.31	3.55	9.87	17.73	30	\$531.90
CC to DD Landing Rock (Jawrun)	4.38	3.55	9.87	17.80	70	\$1,246.00
EE to FF 35435 47290 (Crushed)	4.80	3.55	9.87	18.22	1410	\$25,690.20
EE to FF 47290 60210 (Crushed)	2.18	3.55	9.87	15.60	1530	\$23,868.00
EE to FF Culvert Backfill/bedding (Crushed)	13.11	1.70	9.87	24.68	30	\$740.40
EE to FF Energy Dissipator (Rip Rap)	13.11	1.20	9.87	24.18	5	\$120.90
EE to FF Energy Dissipator (Rip Rap)	12.65	1.20	9.87	23.72	5	\$118.60
EE to FF Energy Dissipator (Rip Rap)	12.60	1.20	9.87	23.67	5	\$118.35
EE to FF Culvert Backfill/bedding (Crushed)	12.15	1.70	9.87	23.72	10	\$237.20
EE to FF Culvert Backfill/bedding(30yd ea	9.17	1.70	9.87	20.74	450	\$9,333.00
EE to FF Energy Dissipator(5yd each) (Ri	9.17	1.20	9.87	20.24	75	\$1,518.00
EE to FF Culvert Removal (Crushed)	10.12	1.70	9.87	21.69	35	\$759.15
EE to FF Road Widening (Jawrun)	10.12	3.55	9.87	23.54	10	\$235.40
EE to FF Road Widening (Crushed)	10.00	3.55	9.87	23.42	5	\$117.10
EE to FF Energy Dissipator (Rip Rap)	9.91	1.20	9.87	20.98	5	\$104.90
EE to FF Fill Armor (Rip Rap)	9.46	1.20	9.87	20.53	20	\$410.60
EE to FF Road Widening (Jawrun)	9.46	3.55	9.87	22.88	15	\$343.20

EE to FF Road Widening (Crushed)	9.17	3.55	9.87	22.59	10	\$225.90
EE to FF Road Widening (Jawrun)	9.17	3.55	9.87	22.59	15	\$338.85
EE to FF Road Widening (Crushed)	8.45	3.55	9.87	21.87	10	\$218.70
EE to FF Buttress & Energy Dissipator (R	8.26	1.20	9.87	19.33	70	\$1,353.10
EE to FF Energy Dissipator (Rip Rap)	7.79	1.20	9.87	18.86	5	\$94.30
EE to FF Energy Dissipator (Rip Rap)	7.02	1.20	9.87	18.09	5	\$90.45
EE to FF Road Widening (Jawrun)	7.02	3.55	9.87	20.44	15	\$306.60
EE to FF Road Widening (Crushed)	6.91	3.55	9.87	20.33	10	\$203.30
EE to FF Road Widening (Jawrun)	6.91	3.55	9.87	20.33	15	\$304.95
EE to FF Road Widening (Crushed)	6.79	3.55	9.87	20.21	10	\$202.10
EE to FF Culvert Removal (Crushed)	6.79	1.70	9.87	18.36	25	\$459.00
EE to FF Energy Dissipator (Rip Rap)	6.79	1.20	9.87	17.86	20	\$357.20
EE to FF Backfill (Jawrun)	6.00	1.70	9.87	17.57	60	\$1,054.20
EE to FF Bedding/Backfill (Crushed)	6.00	1.70	9.87	17.57	60	\$1,054.20
EE to FF Rock Buttress (Rip Rap)	5.64	1.20	9.87	16.71	20	\$334.20
EE to FF Rock Buttress (Crushed)	5.06	3.55	9.87	18.48	20	\$369.60
EE to FF Rock Buttress (Rip Rap)	5.06	1.20	9.87	16.13	190	\$3,064.70
EE to FF Rock Buttress (Crushed)	4.88	3.55	9.87	18.30	30	\$549.00
EE to FF Energy Dissipator (Rip Rap)	4.25	1.20	9.87	15.32	10	\$153.20
EE to FF Rock Buttress (Rip Rap)	4.25	1.20	9.87	15.32	115	\$1,761.80
EE to FF Rock Buttress (Crushed)	3.39	3.55	9.87	16.81	20	\$336.20
EE to FF Energy Dissipator (Rip Rap)	3.15	1.20	9.87	14.22	5	\$71.10
EE to FF Energy Dissipator (Rip Rap)	3.09	1.20	9.87	14.16	10	\$141.60
EE to FF Energy Dissipator (Rip Rap)	3.09	1.20	9.87	14.16	5	\$70.80
EE to FF Rock Buttress (Rip Rap)	2.79	1.20	9.87	13.86	40	\$554.40
EE to FF Rock Buttress (Crushed)	2.79	3.55	9.87	16.21	20	\$324.20
EE to FF Backfill (Jawrun)	6.79	1.70	9.87	18.36	260	\$4,773.60
EE to FF Bedding/Backfill (Crushed)	6.79	1.70	9.87	18.36	60	\$1,101.60
EE to FF Energy Dissipator (Rip Rap)	1.64	1.20	9.87	12.71	20	\$254.20
EE to FF Energy Dissipator (Rip Rap)	2.68	1.20	9.87	13.75	10	\$137.50
EE to FF Energy Dissipator (Rip Rap)	2.68	1.20	9.87	13.75	10	\$137.50
EE to FF Buttress/Energy Dissipator (Rip	1.91	1.20	9.87	12.98	40	\$519.20
EE to FF Road Widening (Jawrun)	1.82	3.55	9.87	15.24	10	\$152.40
EE to FF Road Widening (Crushed)	1.73	3.55	9.87	15.15	5	\$75.75
EE to FF Energy Dissipator (Rip Rap)	1.46	1.20	9.87	12.53	5	\$62.65
EE to FF Culvert Backfill/bedding(20yd ea	1.39	1.70	9.87	12.96	240	\$3,110.40
EE to FF Energy Dissipator(5yd each) (Ri	1.38	1.20	9.87	12.45	60	\$747.00
EE to FF Turnout Hardening (Jawrun)	1.59	1.50	9.87	12.96	120	\$1,555.20
EE to FF Waste Area Approaches (Jawrun)	3.43	1.50	9.87	14.80	60	\$888.00
EE to FF Spot Rock (Crushed)	2.82	1.20	9.87	13.89	100	\$1,389.00
A to B 1+00 Stockpile(Crushed)	3.92	1.00	9.87	14.79	2000	\$29,580.00
				Total C.Y.	15750	Sub Total \$263,768.60

TOTAL ROCKING COSTS	\$263,768.60
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Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Kilchis Company**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
10.3	Pavement	30
11.0	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Brush Cutter	\$402.10		\$4.00	0.00	12.50	12.5	\$50.00	\$452.10
1	Graders	\$516.99		\$3.65	0.00	8.25	8.25	\$30.11	\$547.10
1	Excavators (Large)	\$595.14	1	\$44.80	0.00	8.25	8.25	\$369.60	\$964.74
1	Tractors (D6)	\$567.85	2	\$7.10	0.00	8.25	8.25	\$58.58	\$626.43
2	Dump Truck (Off Hiway)	\$1,134.75	1	\$4.75	0.00	8.25	8.25	\$78.38	\$1,213.13
1	Water Truck (1500 Gal)	\$181.90		\$2.85	0.00	8.25	8.25	\$23.51	\$205.41
				TOTAL MOVE-IN COSTS:					\$4,008.91



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT Kilchis Company

Type of Sale

Regeneration harvest, Recovery

Legal Description

Section(s) 35, 36 of T2N R9W, Section(s) 2 of T1N R9W W.M

Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	145	103
Unit 2 (Modified Clearcut)	121	102
Unit 3 (Modified Clearcut)	52	62
Total	328	257

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Cruising Procedures

A. Cruise Method

The timber sale was cruised using variable plot sampling. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	40.00	500' x 500'
2	40.00	500' x 500'
3	27.78	350' x 350'

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	103	19	12.7	54.1
2	102	21	9.5	42.7
3	52	21	10.3	46.3
Project Total	257	59	10.83	47.7

Hidden Defect and Breakage

A 1% reduction for conifers and a 2% reduction for hardwood volumes were applied for hidden defect and breakage.

Timber Description

Unit 1 is a clearcut of mixed Douglas-fir, western hemlock and red alder with several other minor species. Big leaf maple is the only reserve species outside of Green Tree Reserve Area. The Unit was burnt from the Tillamook Burn in 1933 the unit was seeded 1965.

Unit 2 is a clearcut is a clearcut of mixed Douglas-fir, western hemlock and red alder with several other minor species. Big leaf maple is the only reserve species outside of Green Tree Retention Area. The unit was burned in the Tillamook burn 1933 and Tillamook III 1945 it was reseeded in 1968.

Unit 3 is a clearcut is a clearcut of mixed Douglas-fir, western hemlock and red alder with several other minor species. Big leaf maple is the only reserve species outside of Green Tree Retention Area. The unit was burned in the Tillamook burn 1933 and Tillamook III 1945 no previous seed history.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)
1	53	Douglas-fir	16.7	60
		Red Alder	14.8	32
		Sitka Spruce	26.8	45
		Western Hemlock	17.9	43
2	58	Douglas-fir	13.9	53

		Red alder	13.4	43
		Sitka Spruce	19.0	42
		Western Hemlock	25.0	66
3	56	Douglas-fir	16.7	67
		Red Alder	13.8	37
		Sitka Spruce	19.0	43
		Western Hemlock	19.0	96

Above
data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

Cruiser /Dates

ODF Staff Cruised; October - November 2024.

Revenue Distribution

BOF – 100%

Tax Code: 5600 (100%)

Deed Numbers: 15, 161

Attachments

Volume Summary Table (3)

Stand Table (3)

Log Stock Table (3)

Species, Sort, Grade Table (3)

Logging Plan (3)

Stand and Log Stock Tables Species Key

DF - Douglas-fir

RA - Red alder

SS - Sitka spruce

WH - Western Hemlock

BM – Big Leaf Maple LEAVE

TC		TLOGSTVB		Log Stock Table - MBF																			
				Project: KWIT																			
T01N R09W S02 T0100												T01N R09W S02 T0100											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1														
01N	09W	02	UNIT 1	0100	103.00	19	63	Date	12/17/2024														
										Time	10:56:43AM												
Spp	T	S	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
											2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF		CO	2		40		365	1.1	361	30.5					121		100	53	39	47			
DF		CO	3		16		3		3	.2					3								
DF		CO	3		40		665	.7	660	55.8			168	51	351	24	34	32					
DF		CO	4		12		3		3	.2		3											
DF		CO	4		14		2		2	.2		2											
DF		CO	4		15		21		21	1.8			21										
DF		CO	4		16		9		9	.8		9											
DF		CO	4		18		9		9	.8					9								
DF		CO	4		19		8		8	.7		8											
DF		CO	4		20		3		3	.2		3											
DF		CO	4		22		4		4	.3		4											
DF		CO	4		24		7		7	.6		7											
DF		CO	4		25		4		4	.3		4											
DF		CO	4		26		5		5	.4		5											
DF		CO	4		28		11		11	1.0		11											
DF		CO	4		30		6		6	.5		6											
DF		CO	4		32		10		10	.9		10											
DF		CO	4		33		12		12	1.0		6	5										
DF		CO	4		36		6		6	.5		6											
DF		CO	4		38		15		15	1.3		15											
DF		CO	4		40		13		13	1.1		13											
DF		CO	4		41		11		11	.9		11											
DF		Totals					1,191		1,182	73.2		123	189	57	363	144	135	85	39	47			
RA		H	3		40		24		24	10.7					24								
RA		H	4		16		9		9	4.0			9										
RA		H	4		17		13		13	5.7			13										
RA		H	4		21		4		4	1.8			4										
RA		H	4		22		7	33.3	4	2.0			4										
RA		H	4		27		3		3	1.5			3										
RA		H	4		31		13		13	5.8			13										
RA		H	4		34		35		35	15.8			35										
RA		H	4		36		22		22	10.2			22										
RA		H	4		39		21		21	9.5			21										
RA		H	4		40		76	3.3	73	33.1			47	26									
RA		Totals					225	2.1	221	13.7			171	26	24								
SS		CO	2		40		51		51	58.7							51						
SS		CO	3		40		30		30	34.4							30						
SS		CO	4		21		6		6	6.9			6										
SS		Totals					87		87	5.4			6				81						
WH		CO	2		40		91	7.4	84	79.9					52				32				
WH		CO	3		40		6		6	5.9			6										
WH		CO	4		16		7		7	6.6		7											
WH		CO	4		30		3		3	2.9		3											
WH		CO	4		33		5		5	4.7		5											
WH		Totals					112	6.0	105	6.5		15	6		52				32				
BM		H	2		40		18		18	87.0					18								

TC TLOGSTVB				Log Stock Table - MBF																																			
				Project:				KWIT																															
T01N R09W S02 T0100														T01N R09W S02 T0100																									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		2																			
01N		09W		02		UNIT 1		0100		103.00		19		63				Date		12/17/2024																			
														Time		10:56:43AM																							
S		So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																									
Spp		T		rt de		Len		MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
BM		H		4		22		3				3		13.0						3																			
BM				Totals		21				21		1.3				3				18																			
Total All Species								1,636		1.2		1,615		100.0		138		368		89		387		215		135		166		71		47							

TC		TSTNDSUM															Stand Table Summary														
																	Project KWIT														
T01N R09W S02 T0100															T01N R09W S02 T0100																
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1											
01N		09W		02		UNIT 1		0100			103.00		19		63			Date:		12/17/2024											
																		Time:		10:56:45AM											
S	T	Sample		FF	Ht	Trees/	BA/	Logs	Average Log		Tons/	Net	Net	T o t a l s																	
		DBH	Trees						Net	Net				Tons	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF												
Spc				16'	Tot	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre																		
DF		10	1	80	17	5.563	3.03	5.56	5.3	20.0	.84	30	111	87	30	11															
DF		11	3	81	63	13.792	9.10	18.39	10.3	42.5	5.41	190	782	557	195	81															
DF		12	1	88	88	3.863	3.03	7.73	11.2	45.0	2.46	86	348	254	89	36															
DF		13	1	82	64	3.292	3.03	3.29	22.4	60.0	2.10	74	197	216	76	20															
DF		14	1	83	73	2.838	3.03	5.68	14.6	40.0	2.36	83	227	243	85	23															
DF		16	1	77	88	2.173	3.03	4.35	21.8	75.0	2.71	95	326	279	98	34															
DF		17	6	84	89	11.549	18.20	23.10	25.2	89.2	16.60	582	2,060	1,710	600	212															
DF		18	4	84	90	6.868	12.14	13.74	28.5	98.7	11.17	392	1,356	1,150	404	140															
DF		19	4	83	97	6.164	12.14	12.33	33.6	112.5	11.82	415	1,387	1,218	427	143															
DF		20	2	81	90	2.781	6.07	5.56	35.1	107.5	5.56	195	598	573	201	62															
DF		22	5	84	95	5.747	15.17	11.49	43.3	161.0	14.18	498	1,850	1,461	513	191															
DF		24	1	82	101	.966	3.03	1.93	58.6	195.0	3.23	113	377	332	117	39															
DF		27	1	83	100	.763	3.03	1.53	74.0	265.0	3.22	113	404	331	116	42															
DF		32	1	83	101	.543	3.03	1.09	103.9	410.0	3.22	113	445	331	116	46															
DF		33	1	83	104	.511	3.03	1.02	76.4	350.0	2.23	78	358	229	80	37															
DF		39	1	86	122	.366	3.03	1.10	120.9	593.3	3.78	133	651	390	137	67															
DF		Totals	34	83	78	67.778	103.16	117.87	27.1	97.4	90.88	3,189	11,477	9,361	3,284	1,182															
RA		10	1	76	26	6.130	3.34	6.13	6.3	20.0	1.06	39	123	109	40	13															
RA		11	2	79	48	10.133	6.69	5.07	14.6	50.0	2.03	74	253	209	76	26															
RA		12	1	77	18	4.257	3.34	4.26	7.9	20.0	.92	33	85	95	34	9															
RA		13	1	82	54	3.628	3.34	3.63	20.1	60.0	2.01	73	218	207	75	22															
RA		14	1	79	43	3.128	3.34	3.13	19.6	40.0	1.69	61	125	174	63	13															
RA		16	4	83	54	9.579	13.37	9.58	32.4	62.5	8.53	310	599	879	320	62															
RA		17	2	76	55	4.243	6.69	4.24	25.6	70.0	2.98	109	297	307	112	31															
RA		19	1	80	42	1.698	3.34	1.70	36.8	50.0	1.72	63	85	177	64	9															
RA		20	1	82	66	1.533	3.34	1.53	54.5	150.0	2.30	84	230	237	86	24															
RA		22	1	69	40	1.267	3.34	1.27	16.7	30.0	.58	21	38	60	22	4															
RA		24	1	69	50	1.064	3.34	1.06	21.5	30.0	.63	23	32	65	24	3															
RA		25	1	80	45	.981	3.34	.98	75.7	60.0	2.04	74	59	210	77	6															
RA		Totals	17	79	44	47.640	56.84	42.57	22.6	50.3	26.50	963	2,143	2,729	992	221															
WH		12	1	79	17	3.351	2.63	3.35	7.4	20.0	.79	25	67	81	25	7															
WH		20	1	88	88	1.206	2.63	2.41	37.6	140.0	2.91	91	338	299	94	35															
WH		22	1	83	84	.997	2.63	1.99	43.6	125.0	2.78	87	249	286	89	26															
WH		31	1	83	101	.502	2.63	1.00	103.9	365.0	3.34	104	367	344	107	38															
WH		Totals	4	82	49	6.056	10.53	8.76	35.0	116.5	9.81	307	1,020	1,011	316	105															
SS		20	1	72	25	1.930	4.21	1.93	25.7	30.0	1.29	50	58	133	51	6															
SS		25	1	79	106	1.235	4.21	1.24	107.4	400.0	3.45	133	494	355	137	51															
SS		34	1	70	33	.668	4.21																								
SS		40	1	83	80	.482	4.21	.48	165.5	600.0	2.08	80	289	214	82	30															
SS		Totals	4	75	56	4.315	16.84	3.65	71.9	230.7	6.82	262	841	702	270	87															
BM		21	1	82	78	.875	2.11	1.75	39.7	115.0	1.84	69	201	189	71	21															
BM		Totals	1	82	78	.875	2.11	1.75	39.7	115.0	1.84	69	201	189	71	21															
OC		25	1	88	85	.618	2.11																								
OC		26	1	89	123	.571	2.11																								
OC		34	1	90	119	.334	2.11																								
OC		Totals	3	89	107	1.522	6.32																								
Totals			63	81	64	128.187	195.79	174.61	27.4	89.8	135.85	4791	15,684	13,992	4,934	1,615															

TC		TLOGSTVB		Log Stock Table - MBF																
				Project: KWIT																
T02N R09W S33 T0100										T02N R09W S33 T0100										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
02N	09W	33	UNIT 2	0100	102.00	21	105	Date	12/17/2024											
										Time	11:05:59AM									
Spp	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
									MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF		CO	2	40	199	3.5	192	9.8					135		57					
DF		CO	3	40	1,398	.4	1,393	71.3			530	555	309							
DF		CO	4	12	4		4	.2		4										
DF		CO	4	13	6		6	.3		6										
DF		CO	4	14	24		24	1.2		24										
DF		CO	4	15	3		3	.2		3										
DF		CO	4	16	32		32	1.6		32										
DF		CO	4	17	14		14	.7		14										
DF		CO	4	18	32		32	1.6		32										
DF		CO	4	19	22		22	1.1		22										
DF		CO	4	20	20		20	1.0		20										
DF		CO	4	21	14		14	.7		14										
DF		CO	4	22	9		9	.4		9										
DF		CO	4	23	7		7	.4		7										
DF		CO	4	25	3		3	.2		3										
DF		CO	4	26	36		36	1.8		36										
DF		CO	4	27	59	7.4	55	2.8		55										
DF		CO	4	28	4		4	.2		4										
DF		CO	4	30	7		7	.4		7										
DF		CO	4	31	7		7	.3		7										
DF		CO	4	35	18		18	.9		18										
DF		CO	4	36	10		10	.5		10										
DF		CO	4	39	12		12	.6		12										
DF		CO	4	40	32		32	1.6		32										
DF		Totals			1,972		1,956	89.0		370	530	555	309	135		57				
RA		H	4	29	15		15	8.6			15									
RA		H	4	30	13		13	7.2			13									
RA		H	3	40	62		62	34.5					62							
RA		H	4	22	8		8	4.6			8									
RA		H	4	27	8		8	4.6			8									
RA		H	4	31	19	14.3	16	9.2			16									
RA		H	4	33	10		10	5.7			10									
RA		H	4	40	46		46	25.7				46								
RA		Totals			182	1.5	179	8.1			71	46	62							
SS		CO	3	40	24		24	64.0					15		9					
SS		CO	4	20	1		1	3.9		1										
SS		CO	4	34	6	25.0	5	12.7		5										
SS		CO	4	35	7		7	19.4		7										
SS		Totals			39	4.1	38	1.7		13			15		9					
WH		CO	2	40	23		23	90.9							23					
WH		CO	4	24	2		2	9.1			2									
WH		Totals			25		25	1.1			2				23					
Total All Species					2,218		2,197	100.0		383	604	601	370	150		90				

TC		TSTNDSUM														Stand Table Summary													
														Project							KWIT								
T02N R09W S33 T0100														T02N R09W S33 T0100															
Twp		Rge		Sec		Tract		Type				Acres		Plots		Sample Trees		Page:		1									
02N		09W		33		UNIT 2		0100				102.00		21		105		Date:		12/17/2024									
														Time:		11:06:00AM													
S Spc	T	Sample		FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s															
		DBH	Trees						Net	Net				Tons	Cunits	MBF													
DF		8	1	80	21	6.759	2.36	6.76	3.2	20.0	.62	22	135	63	22	14													
DF		9	1	80	55	5.340	2.36	5.34	7.8	30.0	1.19	42	160	121	43	16													
DF		10	3	80	69	12.977	7.08	17.30	9.2	32.5	4.53	159	562	462	162	57													
DF		11	7	84	73	25.025	16.52	35.75	11.1	44.0	11.31	397	1,573	1,153	405	160													
DF		12	10	83	78	30.040	23.59	48.06	13.1	45.0	17.97	631	2,163	1,833	643	221													
DF		13	11	83	68	28.156	25.95	43.51	14.6	45.3	18.16	637	1,971	1,852	650	201													
DF		14	12	83	73	26.484	28.31	41.93	18.1	55.3	21.59	758	2,317	2,202	773	236													
DF		15	12	84	78	23.070	28.31	44.22	17.9	61.7	22.61	793	2,730	2,306	809	278													
DF		16	9	84	78	15.208	21.23	30.42	19.2	60.6	16.67	585	1,842	1,700	597	188													
DF		17	4	85	88	5.987	9.44	11.97	25.3	95.0	8.64	303	1,138	881	309	116													
DF		18	3	84	86	4.005	7.08	8.01	28.6	98.3	6.52	229	788	665	233	80													
DF		19	5	84	92	5.991	11.80	11.98	31.8	110.0	10.86	381	1,318	1,108	389	134													
DF		20	4	83	86	4.326	9.44	7.57	36.0	124.3	7.77	273	941	793	278	96													
DF		21	3	84	86	2.943	7.08	5.89	38.4	118.3	6.44	226	696	657	230	71													
DF		22	1	86	75	.894	2.36	.89	46.3	150.0	1.18	41	134	120	42	14													
DF		26	1	85	102	.640	2.36	1.28	69.1	265.0	2.52	88	339	257	90	35													
DF		28	1	82	114	.552	2.36	1.10	83.6	330.0	2.63	92	364	268	94	37													
DF		Totals	88	83	73	198.396	207.62	321.99	17.6	59.5	161.20	5,656	19,172	16,442	5,769	1,956													
RA		11	1	79	47	3.752	2.48	3.75	12.4	40.0	1.28	47	150	131	48	15													
RA		12	1	80	43	3.153	2.48	3.15	14.7	40.0	1.28	46	126	130	47	13													
RA		13	3	82	61	8.059	7.43	10.75	16.0	45.0	4.72	172	484	481	175	49													
RA		14	1	83	72	2.316	2.48	2.32	28.4	90.0	1.81	66	208	184	67	21													
RA		15	3	84	83	6.053	7.43	8.07	23.7	97.5	5.25	191	787	536	195	80													
RA		16	1	70	36	1.773	2.48																						
RA		Totals	10	81	61	25.107	24.76	28.04	18.6	62.6	14.33	521	1,755	1,462	532	179													
SS		14	1	83	46	1.782	1.90	1.78	21.1	40.0	.98	38	71	100	38	7													
SS		15	1	79	44	1.552	1.90	1.55	23.2	30.0	.94	36	47	95	37	5													
SS		22	1	82	72	.722	1.90	1.44	41.3	110.0	1.55	60	159	158	61	16													
SS		25	1	77	64	.559	1.90																						
SS		42	1	77	71	.198	1.90	.20	157.6	460.0	.81	31	91	83	32	9													
SS		Totals	5	81	52	4.812	9.52	4.98	33.0	73.9	4.27	164	368	436	168	38													
WH		25	1	88	78	.559	1.90	1.12	55.4	220.0	1.98	62	246	202	63	25													
WH		Totals	1	88	78	.559	1.90	1.12	55.4	220.0	1.98	62	246	202	63	25													
OC		19	1	88	96	.967	1.90																						
OC		Totals	1	88	96	.967	1.90																						
Totals			105	83	72	229.841	245.71	356.13	18.0	60.5	181.78	6403	21,540	18,542	6,531	2,197													

TC	TLOGSTVB		Log Stock Table - MBF																	
Project: KWIT																				
T02N R09W S36 T0100												T02N R09W S36 T0100								
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees				Page		1						
02N	09W	36	UNIT 3		0100	52.00	21	85				Date		12/17/2024						
												Time		11:01:44AM						
Spp	S	T	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches									
											2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
DF			CO	2	40		296		296	49.4				117		103	61	16		
DF			CO	3	22		5		5	.8			1		3					
DF			CO	3	27		2		2	.3					2					
DF			CO	3	29		2		2	.3			2							
DF			CO	3	32		2		2	.3			2							
DF			CO	3	38		2		2	.4			2							
DF			CO	3	40		233	.4	232	38.7			80	59	82		10			
DF			CO	4	12		1		1	.2		1								
DF			CO	4	13		0		0	.1		0								
DF			CO	4	14		1		1	.2		1								
DF			CO	4	16		2		2	.3		2								
DF			CO	4	20		5		5	.8		2			3					
DF			CO	4	22		5		5	.9		3	2							
DF			CO	4	24		4		4	.6		4								
DF			CO	4	25		1		1	.2			1							
DF			CO	4	26		3		3	.5			3							
DF			CO	4	27		12		12	2.0		12								
DF			CO	4	30		6		6	1.0		6								
DF			CO	4	32		2		2	.3		2								
DF			CO	4	34		10		10	1.6		10								
DF			CO	4	36		2		2	.3		2								
DF			CO	4	39		6		6	.9		6								
DF			Totals				601		600	71.5		53	90	59	87	121	113	61	16	
RA			H	3	12		5		5	2.8						5				
RA			H	3	40		11		11	5.8				11						
RA			H	4	13		2		2	.9			2							
RA			H	4	16		7		7	3.5			1			5				
RA			H	4	17		4		4	2.3			4							
RA			H	4	19		3		3	1.3			3							
RA			H	4	21		5		5	2.4			5							
RA			H	4	23		18		18	9.0			13		5					
RA			H	4	25		3		3	1.7			3							
RA			H	4	26		2		2	.9			2							
RA			H	4	29		6	25.0	5	2.4			5							
RA			H	4	31		9		9	4.7			9							
RA			H	4	33		4		4	2.0			4							
RA			H	4	35		6		6	2.9			6							
RA			H	4	36		5		5	2.6			5							
RA			H	4	38		11	10.4	10	5.0			10							
RA			H	4	39		21		21	11.0			21							
RA			H	4	40		76		76	38.8			55	21						
RA			Totals				197	1.3	194	23.2			147	21	16	5	5			
BM			H	2	40		7		7	34.6						7				
BM			H	4	14		1		1	5.1			1							
BM			H	4	22		1		1	2.9			1							
BM			H	4	40		11		11	57.4			5	6						
BM			Totals				19		19	2.3			7	6			7			
SS			CO	2	40		14		14	100.0					3			11		

TC TLOGSTVB				Log Stock Table - MBF																													
				Project:				KWIT																									
T02N R09W S36 T0100												T02N R09W S36 T0100																					
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		2													
02N		09W		36		UNIT 3		0100		52.00		21		85				Date		12/17/2024													
																		Time		11:01:44AM													
S So Gr Log				Gross		% Net		%		Net Volume by Scaling Diameter in Inches																							
Spp T rt de Len				MBF		Def MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
SS Totals				14		14		1.7								3				11													
WH CO 2 40				8		8		72.7								8																	
WH CO 3 40				3		3		27.3				3																					
WH Totals				12		12		1.4				3				8																	
Total All Species				843		839		100.0		53		244		89		103		138		125		61		26									

TC		TSTNDSUM													Stand Table Summary																													
															Project													KWIT																
T02N R09W S36 T0100																														T02N R09W S36 T0100														
Twp		Rge		Sec		Tract					Type			Acres			Plots			Sample Trees			Page:		1																			
02N		09W		36		UNIT 3					0100			52.00			21			85			Date:		12/17/2024																			
																														Time: 11:01:46AM														
S Spc		T		Sample DBH		FF Trees		Av Ht 16' Tot		Trees/ Acre		BA/ Acre		Logs Acre		Average Log Net Cu.Ft.		Net Bd.Ft.		Tons/ Acre		Net Cu.Ft.		Net Bd.Ft.		T o t a l s																		
																										Tons		Cunits		MBF														
DF				8		1		80 56		6.136		2.14		6.14		6.6		30.0		1.15		40		184		60		21		10														
DF				12		4		84 70		10.908		8.57		16.36		12.6		41.7		5.87		206		682		305		107		35														
DF				13		2		83 80		4.647		4.28		6.97		17.0		60.0		3.37		118		418		175		61		22														
DF				14		4		84 81		8.014		8.57		14.02		17.5		58.6		6.98		245		821		363		127		43														
DF				15		2		85 82		3.491		4.28		6.98		17.5		62.5		3.48		122		436		181		64		23														
DF				16		2		85 102		3.068		4.28		6.14		24.0		97.5		4.20		147		598		218		77		31														
DF				18		4		83 106		4.848		8.57		9.70		32.2		121.2		8.90		312		1,176		463		162		61														
DF				19		2		83 99		2.176		4.28		4.35		35.1		122.5		4.36		153		533		227		79		28														
DF				20		5		85 100		4.909		10.71		9.82		38.3		135.0		10.71		376		1,325		557		195		69														
DF				21		3		86 96		2.671		6.43		5.34		41.3		148.3		6.29		221		792		327		115		41														
DF				22		3		83 125		2.434		6.43		6.49		42.4		173.7		7.84		275		1,128		408		143		59														
DF				23		1		85 112		.742		2.14		2.23		38.2		163.3		2.42		85		364		126		44		19														
DF				24		4		83 114		2.727		8.57		6.82		43.9		176.0		8.53		299		1,200		444		156		62														
DF				26		3		84 108		1.743		6.43		4.07		55.9		234.3		6.48		227		953		337		118		50														
DF				27		1		83 140		.539		2.14		1.62		62.6		276.7		2.88		101		447		150		53		23														
DF				35		1		83 136		.321		2.14		.96		103.1		500.0		2.82		99		481		147		52		25														
DF				Totals		42		84 88		59.372		89.95		108.00		28.0		106.8		86.28		3,028		11,538		4,487		1,574		600														
RA				10		4		77 75		16.909		9.22		16.91		13.0		50.0		6.03		219		845		313		114		44														
RA				11		3		79 75		10.481		6.92		10.48		16.1		56.7		4.65		169		594		242		88		31														
RA				12		3		77 51		8.807		6.92		5.87		12.3		30.0		1.98		72		176		103		37		9														
RA				13		5		74 50		12.506		11.53		7.50		14.4		30.0		2.96		108		225		154		56		12														
RA				14		4		78 47		8.627		9.22		8.63		17.5		40.0		4.15		151		345		216		79		18														
RA				15		2		73 40		3.757		4.61		1.88		24.7		40.0		1.28		46		75		66		24		4														
RA				16		2		82 60		3.302		4.61		4.95		24.3		66.7		3.31		120		330		172		63		17														
RA				17		2		80 46		2.925		4.61		2.93		33.8		55.0		2.72		99		161		141		51		8														
RA				18		2		72 60		2.609		4.61		3.91		16.4		53.3		1.77		64		209		92		33		11														
RA				19		3		75 49		3.513		6.92		4.68		27.5		65.0		3.55		129		304		185		67		16														
RA				20		1		77 59		1.057		2.31		1.06		56.9		120.0		1.65		60		127		86		31		7														
RA				22		1		77 49		.873		2.31		.87		63.1		70.0		1.51		55		61		79		29		3														
RA				26		1		86 54		.625		2.31		.63		86.9		180.0		1.50		54		113		78		28		6														
RA				27		2		79 53		1.160		4.61		1.16		96.5		150.0		3.08		112		174		160		58		9														
RA				Totals		35		77 59		77.152		80.69		71.46		20.4		52.3		40.13		1,459		3,740		2,087		759		194														
BM				13		1		82 74		1.435		1.32		1.44		23.8		70.0		.90		34		100		47		18		5														
BM				16		1		82 73		.947		1.32		1.89		20.6		70.0		1.04		39		133		54		20		7														
BM				26		1		82 73		.359		1.32		.72		59.9		195.0		1.14		43		140		59		22		7														
BM				Totals		3		82 74		2.741		3.97		4.05		28.7		92.2		3.08		116		373		160		60		19														
SS				15		1		78 35		1.078		1.32				109.7		500.0		1.54		59		269		80		31		14														
SS				30		1		85 118		.269		1.32		.54																														
SS				Totals		2		79 52		1.347		2.65		.54		109.7		500.0		1.54		59		269		80		31		14														
WH				19		1		83 117		.672		1.32		1.34		41.6		165.0		1.79		56		222		93		29		12														
WH				Totals		1		83 117		.672		1.32		1.34		41.6		165.0		1.79		56		222		93		29		12														
OC				16		1		73 37		.947		1.32																																
OC				24		1		89 121		.421		1.32																																
OC				Totals		2		78 63		1.369		2.65																																
Totals				85		80 71				142.653		181.23		185.39		25.4		87.1		132.82		4718		16,142		6,907		2,453		839														



"STEWARDSHIP IN FORESTRY"

Kilchis Company

Volume Summary

Unit 1-Modified Clearcut				
103 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	11.48	1182	1%	1170
Hemlock	1.02	105	1%	104
Spruce	0.84	87	1%	86
Noble Fir		0	1%	0
Alder	2.14	221	2%	217
TOTAL	15.48	1595.0		1577

Unit 2-Modified Clearcut				
102 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	19.17	1956	1%	1936
Hemlock	0.25	25	1%	25
Spruce	0.37	38	1%	38
Noble Fir		0	1%	0
Alder	1.76	179	2%	175
TOTAL	21.54	2198		2174

Unit 3- Modified Clearcut				
52 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	11.54	600	1%	594
Hemlock	0.22	12	1%	12
Spruce	0.27	14	1%	14
Noble Fir		0	1%	0
Alder	3.74	194	2%	190
TOTAL	15.77	820		810



"STEWARDSHIP IN FORESTRY"

Kilchis Company

Volume Summary

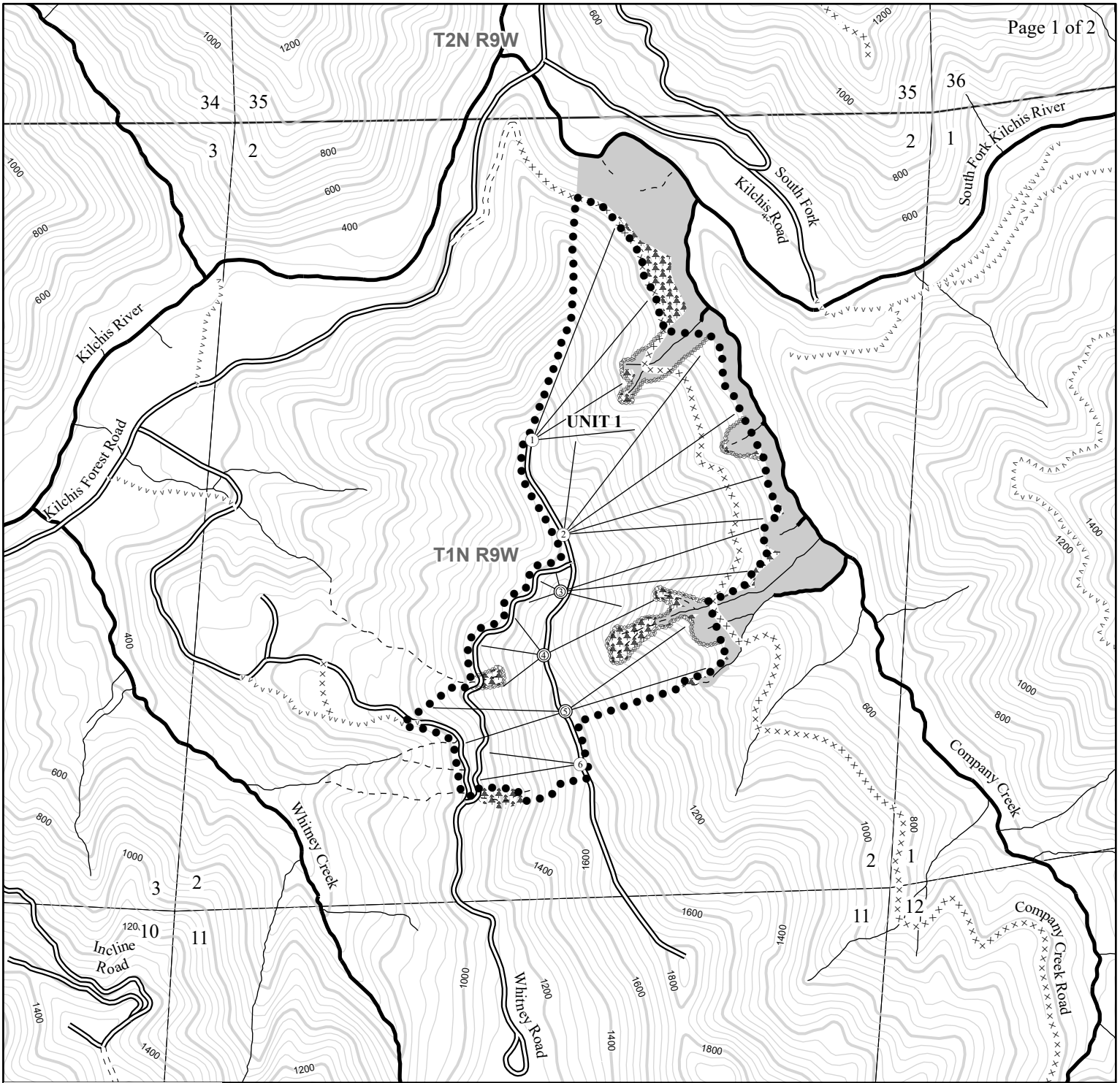


"STEWARDSHIP IN FORESTRY"

Kilchis Company

Volume Summary

TOTAL SALE VOLUME		
	257	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	3738	3700
Hemlock	142	141
Spruce	139	138
Noble Fir	0	0
Red Alder	594	582
TOTAL	4613	4561



- Legend**
- ⊙ Landing To Be Constructed
 - Landing Existing
 - Cable Logging
 - Timber Sale Boundary
 - ~~~~~ Riparian Boundary
 - Riparian Buffer
 - xxx Green Tree Retention
 - Type-F Stream
 - Type-N Perennial Stream
 - - - Type-N Seasonal Stream
 - == Surfaced Road
 - - - Unsurfaced Road
 - vvvv Abandoned Road
 - xxx Blocked Road
 - 200' Contour
 - 40' Contour
 - Sections

LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2026-W00958-01
KILCHIS COMPANY
PORTIONS OF SECTIONS 35, 36 of T2N R9W,
SECTION 2 of T1N R9W W.M
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
February 2025

This product is for informational use and may not be
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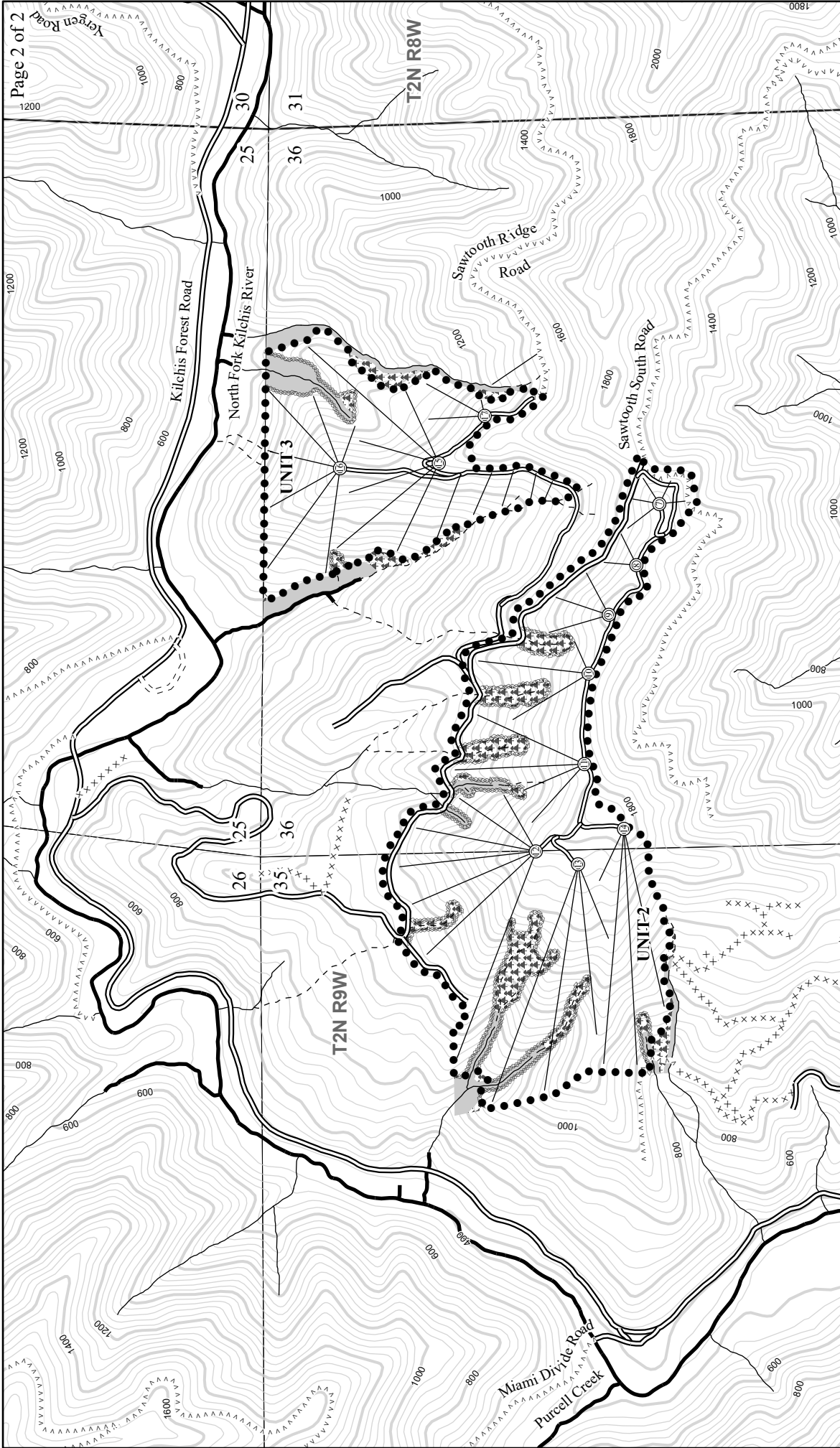


NET ACRES

1:12,000
1 inch = 1,000 feet



	GROUND	CABLE	TOTAL
UNIT 1	0	103	103
UNIT 2	0	102	102
UNIT 3	0	52	52
TOTAL	0	257	257



LOGGING PLAN

- Landing To Be Constructed
- Cable Logging
- Timber Sale Boundary
- Riparian Boundary
- Riparian Buffer
- Green Tree Retention
- Type-F Stream
- Type-N Perennial Stream
- - - Type-N Seasonal Stream
- == Surfaced Road
- === Unsurfaced Road
- vvvv Abandoned Road
- xxx Blocked Road
- 200' Contour
- 40' Contour
- Sections

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	103	103
UNIT 2	0	102	102
UNIT 3	0	52	52
TOTAL	0	257	257

1:12,000

1 inch = 1,000 feet

0 1,000 2,000

Feet



FOR TIMBER SALE CONTRACT TL-341-2026-W00958-01

KILCHIS COMPANY

PORTIONS OF SECTIONS 35, 36 of T2N R9W,

SECTION 2 of T1N R9W W.M

TILLAMOOK COUNTY, OREGON

Tillamook District GIS

February 2025

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