

Stand Origin Assessment Form

Region: South Puget Sound

District: Rainier

Unit: Black Diamond

Timber Sale name: Sylvan Pearl

Total number of units: 7

Step 1: Office review:

Name of reviewer(s): Alan Mainwaring, Nick Chicano, Nicole Vonderckefeldt, and Rachel Lanter

Date of review: 8/8/23

➤ Screening methods/sources:

Combined Origin Year GIS layer LiDAR veg height GIS layer Historical photo year: 1942 US Army Eagle Gorge Basin

Other: _____

➤ Can stand origin be confidently determined (within a decade) using the above data sources for **all** units?

No - **proceed to Step 2 for units that need additional assessment. For any units that the origin year is confidently determined by above data sources, state origin date by unit here:**

Yes – **no further assessment needed. State origin date by unit here:**

Step 2: Field screening (see attached Guide to determining stand ages)

Names of reviewer(s): Nick Chicano, Nicole Vonberckefeldt, Alan Mainwaring, and Rachel Lanter

Date(s) of review: 8/8/23, 8/15/23

➤ WOGHI moderate or high points inside or within 300 feet any units?

No Yes - **If Yes, contact old growth designee or region biologist**

➤ Were trees bored:

No - Describe field assessment method & observations (**list by unit if varies**):

Yes – Attach Tree List and the location of bored trees on a map

➤ Further assessment needed by Old Growth designee? No Yes

Describe field screening results and origin date **by unit**.

Unit 1. Stand origin date 1930s. Natural Regeneration, experienced fire post-1930s logging.

Unit 2. Extrapolated from unit 1. Unit 2 is small, close proximity to unit 1, and trees looked the same as unit 1. Stand origin date 1930s. Natural Regeneration, experienced fire post-1930s logging.

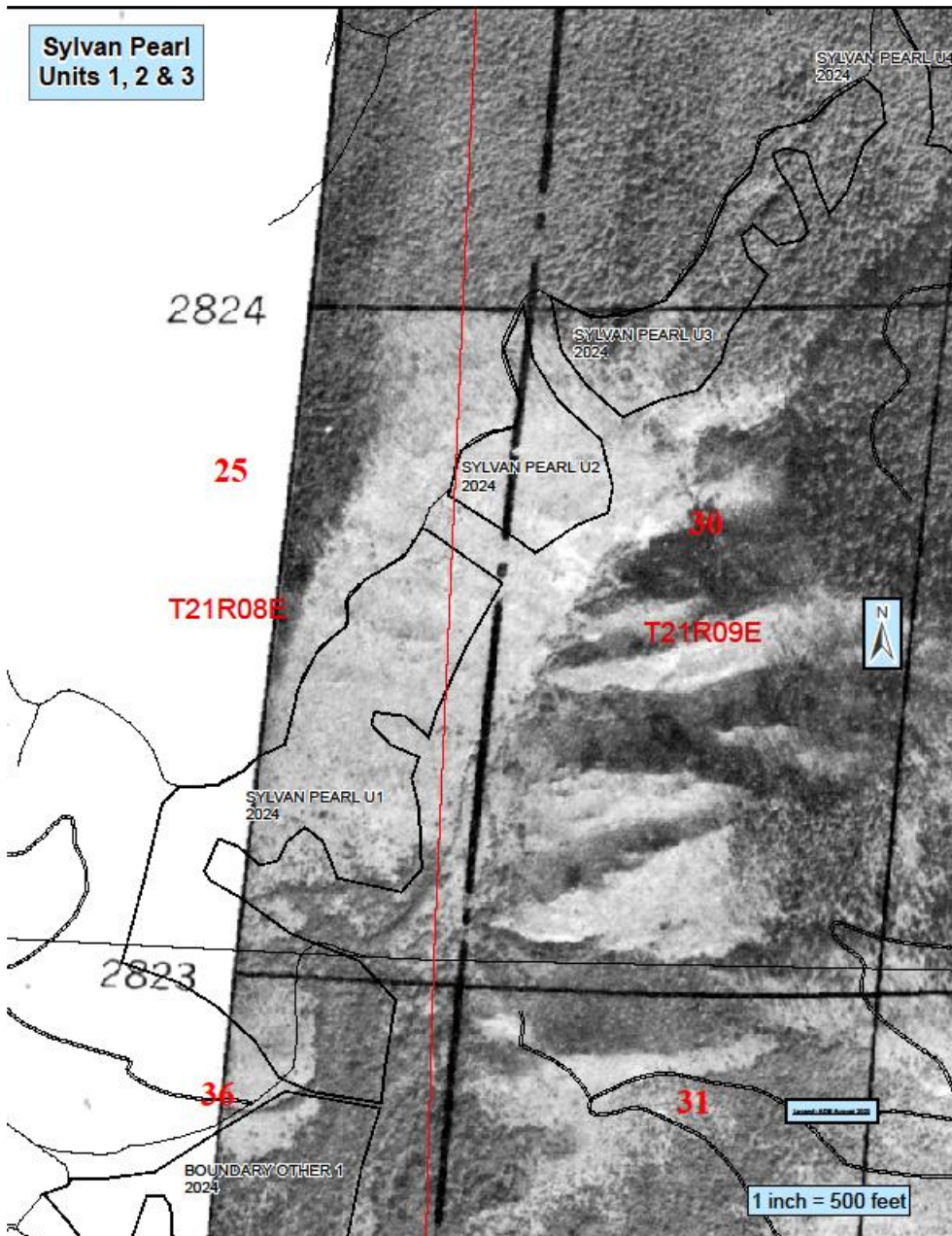
Unit 3. Stand origin date mid-1950s. Natural Regeneration, experienced fire post-1950s logging.

Unit 4. Stand origin date mid-1950s. Natural Regeneration, experienced fire post-1950s logging.

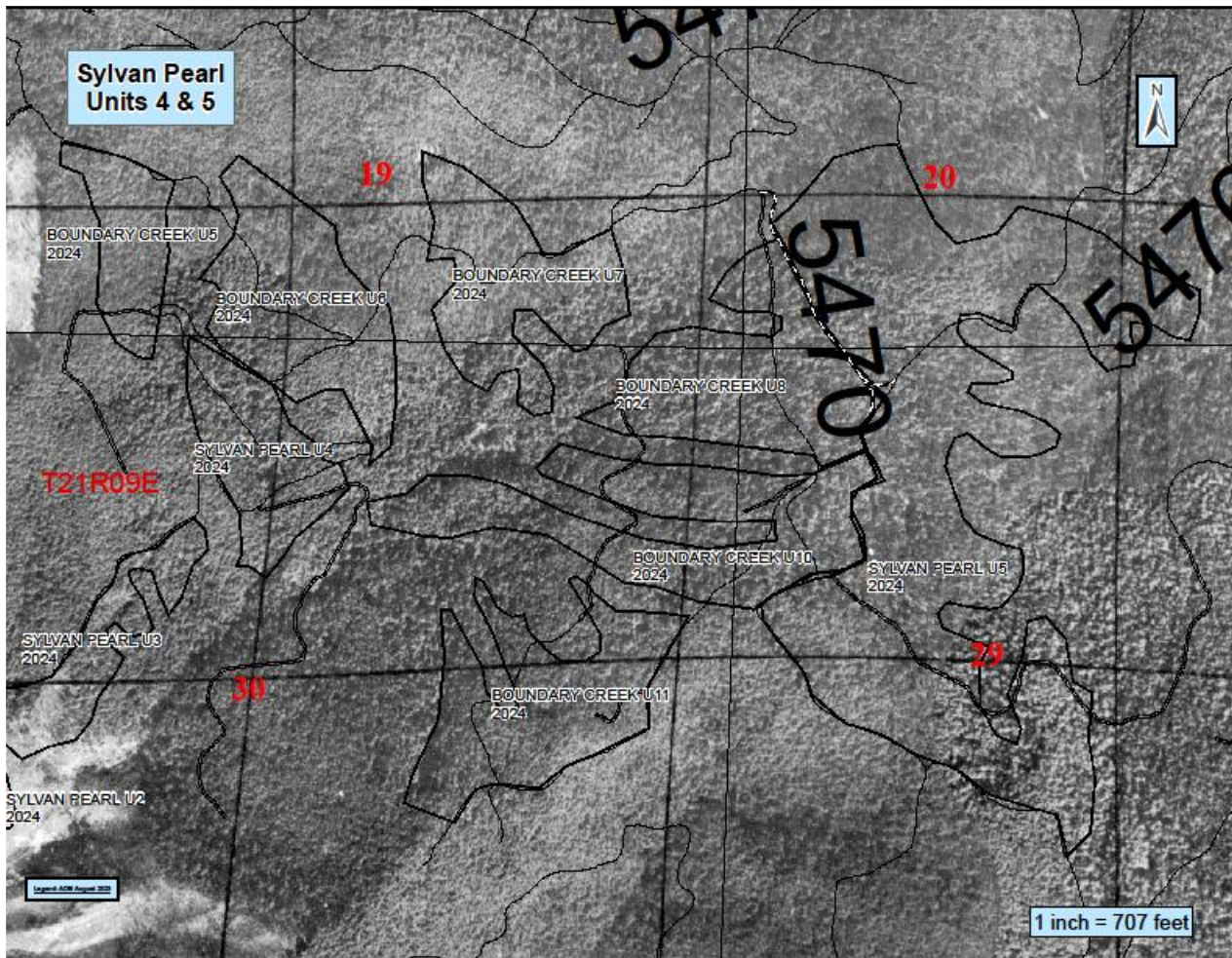
Unit 5. Stand origin date mid-1950s. Natural Regeneration, experienced fire post-1950s logging.

Unit 6. Stand origin date late-1960s. Natural Regeneration, experienced fire post-1960s logging.

Unit 7. Stand origin date early-1960s. Natural Regeneration, experienced fire post-1960s logging.



Historical photo of Eagle Basin area, US Army dated 1942



Historical photo of Eagle Basin area, US Army dated 1942

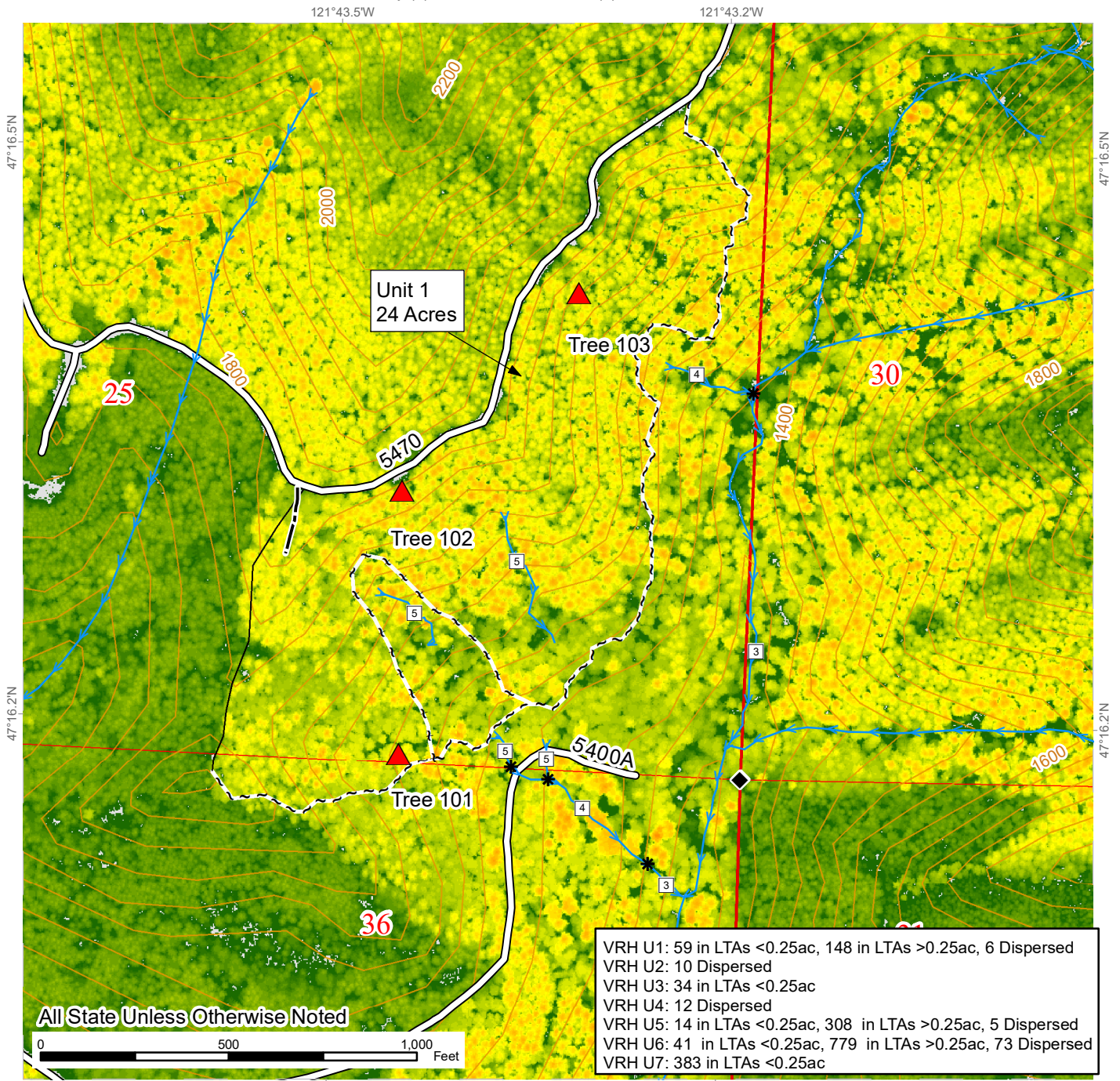
Unit #	Tree #	Species	DBH	Van Pelt Score	Cut Stumps	Ring count	Origin Year	Notes
1	101 (1)	DF	34.4	1	yes	77+6+7=90	1933	Char on cut stumps. Undetermined if fire happened before or after harvest.
1	102 (2)	DF	37.9	1	yes	73+8+7=88	1935	Char on cut stumps. Undetermined if fire happened before or after harvest.
1	103 (3)	DF	29.5	1	yes	72+6+7=85	1938	Post harvest fire. Harvested then fire happened.
3	301 (4)	DF	28.5	1	yes	54+6+7=67	1956	Post harvest fire.
3	302 (5)	DF	23	1	yes	57+4+7=68	1955	Post harvest fire.
4	401	DF	27.3	1	yes	57+2+7=66	1957	Post harvest fire. Found cut stump with notch and fire scarring.
4	402	DF	23	1	yes	56+3+7=66	1957	Post harvest fire. Found cut stump with notch and fire scarring.
5	501	DF	30	1	yes	58+3+7=68	1955	Post harvest fire. Found cut stump with notch and fire scarring.
5	502	DF	21	1	yes	62+0+7=69	1954	Post harvest fire. Found cut stump with notch and fire scarring.
6	601	DF	18.6	0.5	yes	48+2+7=57	1966	Crowded stand. Post harvest fire. Found cut stump with notch and fire scarring.
6	602	DF	18	0.5	yes	51+0+7=57	1965	Crowded stand. Post harvest fire. Found cut stump with notch and fire scarring.
7	701	DF	23.1	0.5	yes	50+3+7=60	1963	Post harvest fire. Found cut stump with notch and fire scarring.

Unit 2 did not get sampled. Data was extrapolated from Units 1 and 3 since they are near each other.

OLDER FOREST ASSESSMENT MAP

SALE NAME: SYLVAN PEARL
AGREEMENT#: 30-103620
TOWNSHIP(S): T21R8E, T21R9E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): King
ELEVATION RGE: 1320-3280



VRH U1: 59 in LTAs <0.25ac, 148 in LTAs >0.25ac, 6 Dispersed
 VRH U2: 10 Dispersed
 VRH U3: 34 in LTAs <0.25ac
 VRH U4: 12 Dispersed
 VRH U5: 14 in LTAs <0.25ac, 308 in LTAs >0.25ac, 5 Dispersed
 VRH U6: 41 in LTAs <0.25ac, 779 in LTAs >0.25ac, 73 Dispersed
 VRH U7: 383 in LTAs <0.25ac

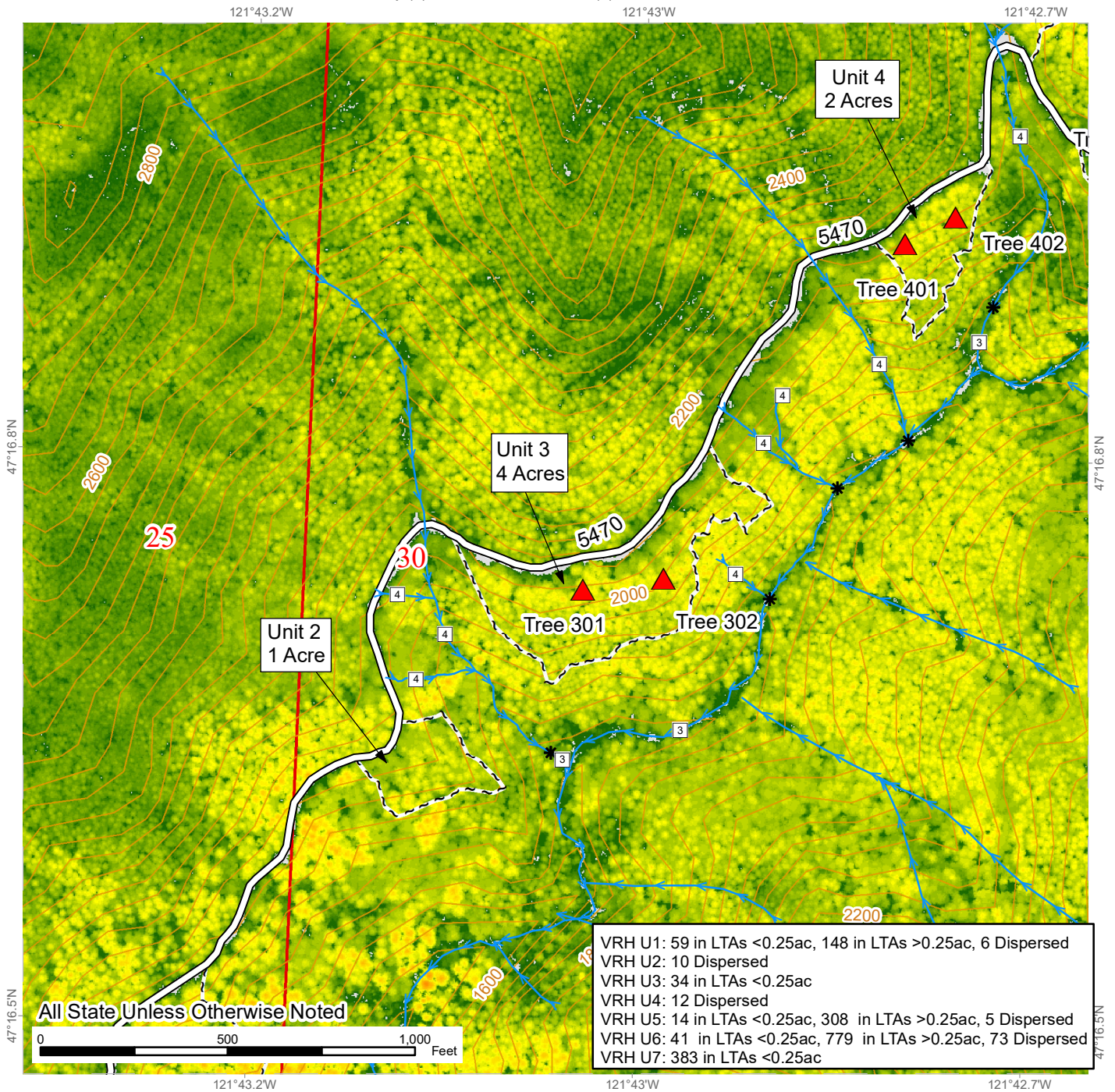
Variable Retention Harvest	Streams	16 - 20	91 - 100	171 - 180
Sale Boundary Tags	Survey Monument	21 - 30	101 - 110	181 - 190
Timber Type Change	Contours 40-foot	31 - 40	111 - 120	191 - 200
Leave Tree Tags	Public Land Survey Sections	41 - 50	121 - 130	
Existing Roads	Vegetation Height (Feet)	51 - 60	131 - 140	
Optional Construction	<VALUE>	61 - 70	141 - 150	
Stream Type	<0 - 1	71 - 80	151 - 160	
Stream Type Break	2 - 15	81 - 90	161 - 170	



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Variable Retention Harvest	Vegetation Height (Feet)	51 - 60	131 - 140
Sale Boundary Tags	<VALUE>	61 - 70	141 - 150
Existing Roads	<0 - 1	71 - 80	151 - 160
Stream Type	2 - 15	81 - 90	161 - 170
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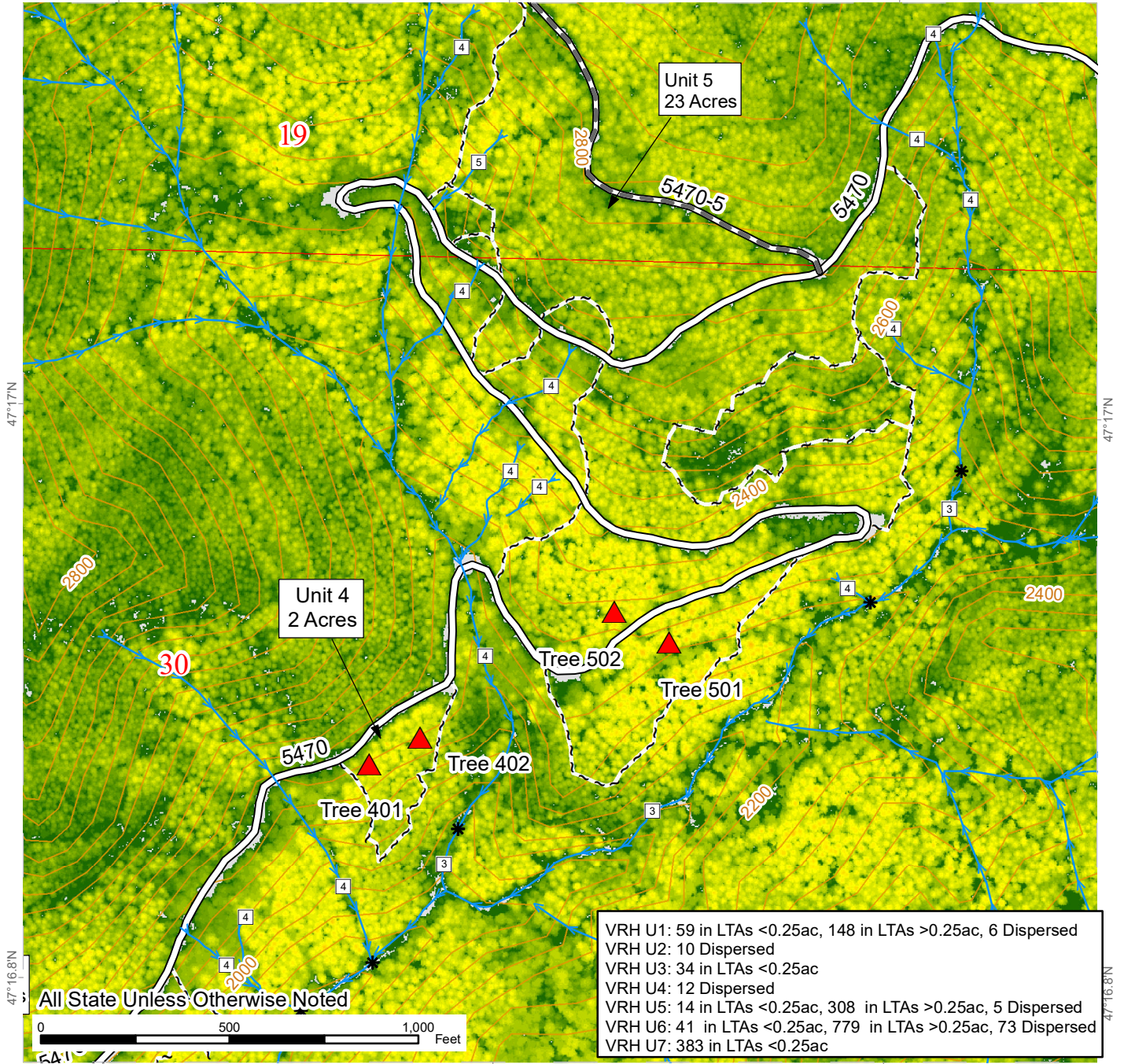
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121°43'W

121°42.7'W

121°42.5'W



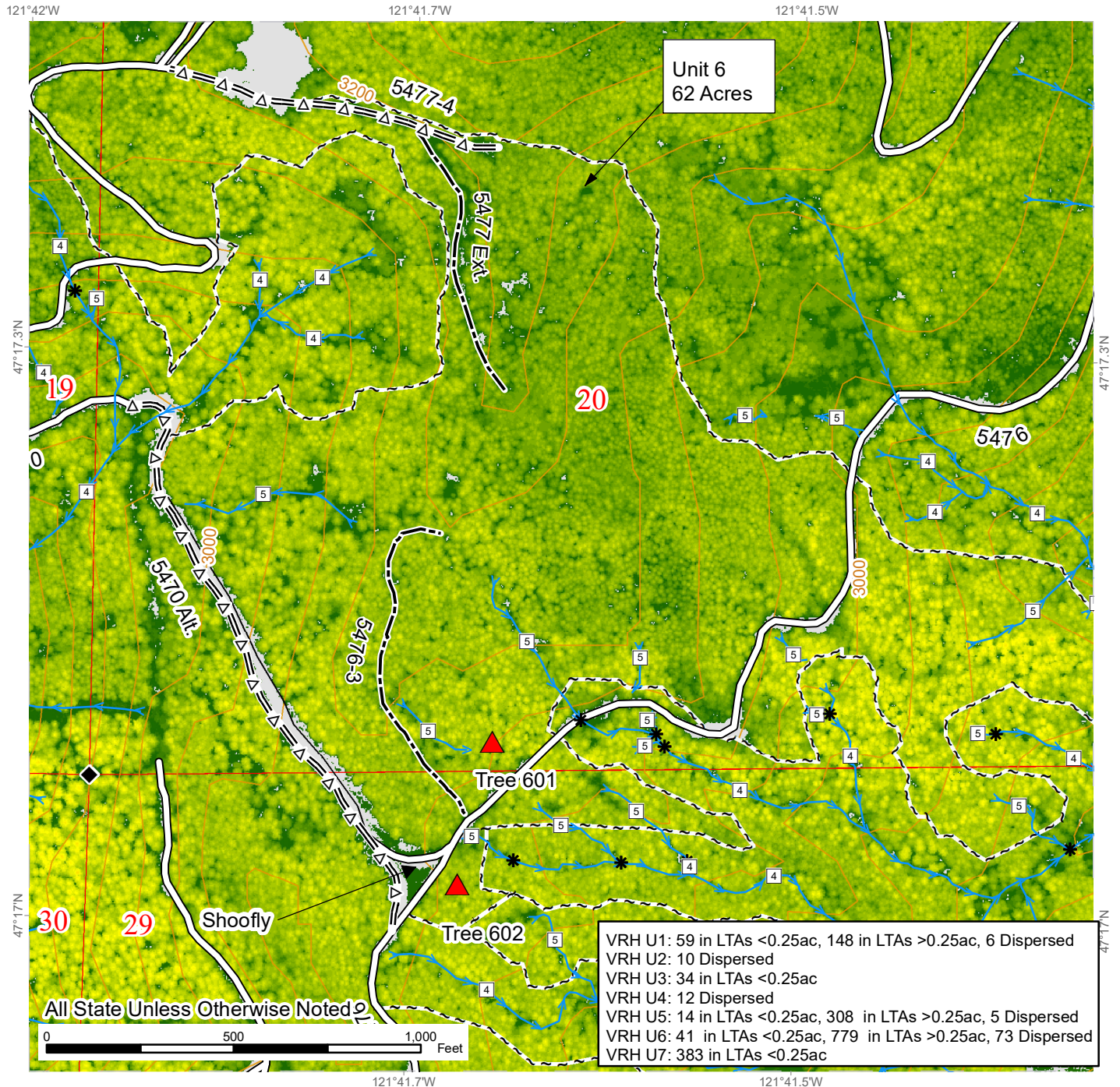
	Variable Retention Harvest		Contours 40-foot		31 - 40		111 - 120
	Sale Boundary Tags		Public Land Survey Sections		41 - 50		121 - 130
	Leave Tree Tags	Vegetation Height (Feet)			51 - 60		131 - 140
	Existing Roads	<VALUE>			61 - 70		141 - 150
	Required Pre-Haul Maintenance		<0 - 1		71 - 80		151 - 160
	Stream Type		2 - 15		81 - 90		161 - 170
	Stream Type Break		16 - 20		91 - 100		
	Streams		21 - 30		101 - 110		



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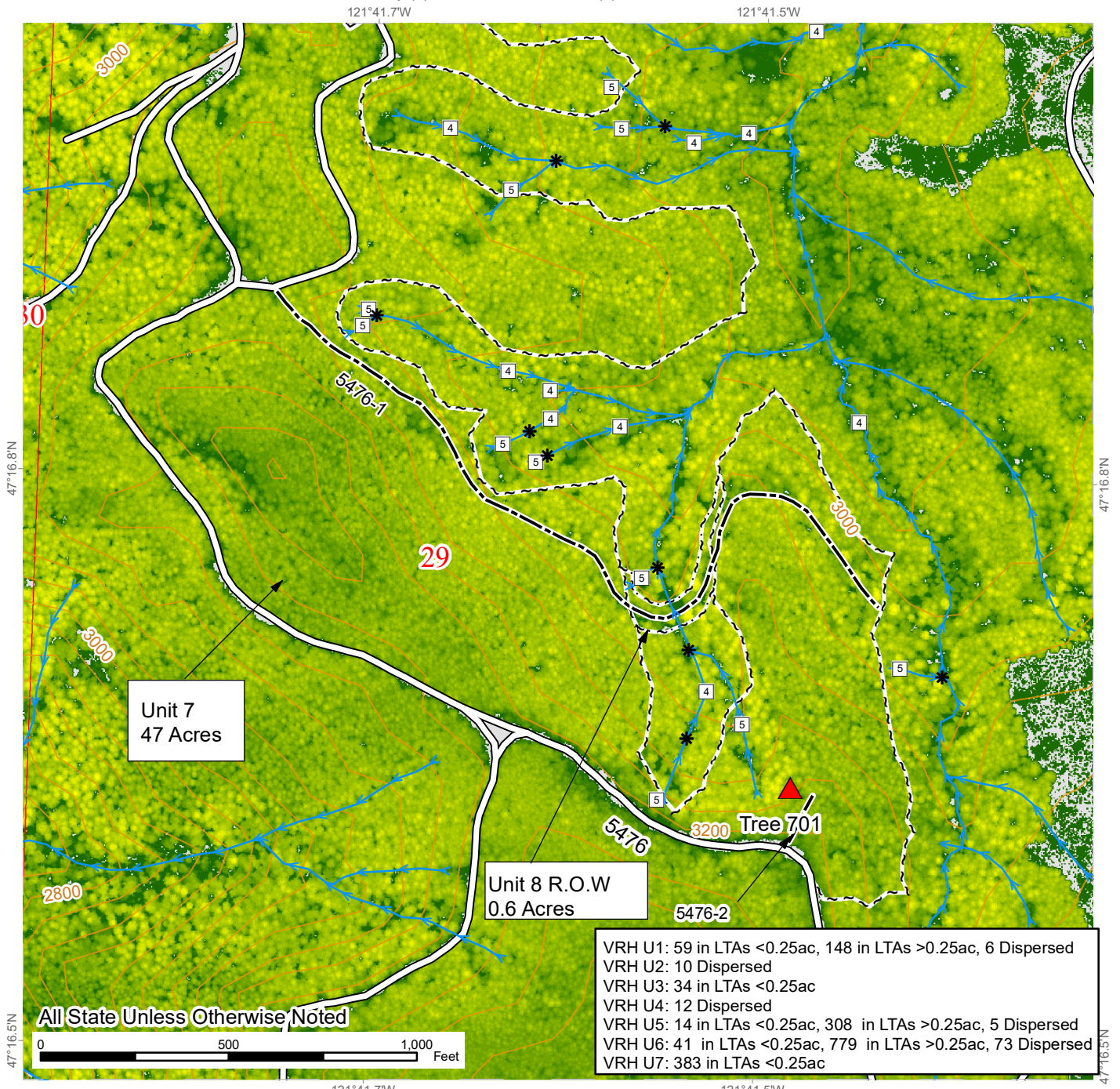


	Variable Retention Harvest		Streams		16 - 20		91 - 100
	Sale Boundary Tags		Survey Monument		21 - 30		101 - 110
	Timber Type Change		Contours 40-foot		31 - 40		111 - 120
	Leave Tree Tags		Public Land Survey Sections		41 - 50		121 - 130
	Existing Roads	Vegetation Height (Feet)			51 - 60		131 - 140
	Optional Pre-Haul Maintenance		<VALUE>		61 - 70		141 - 150
	Optional Construction		2 - 15		71 - 80		
	Stream Type Break				81 - 90		

OLDER FOREST ASSESSMENT MAP

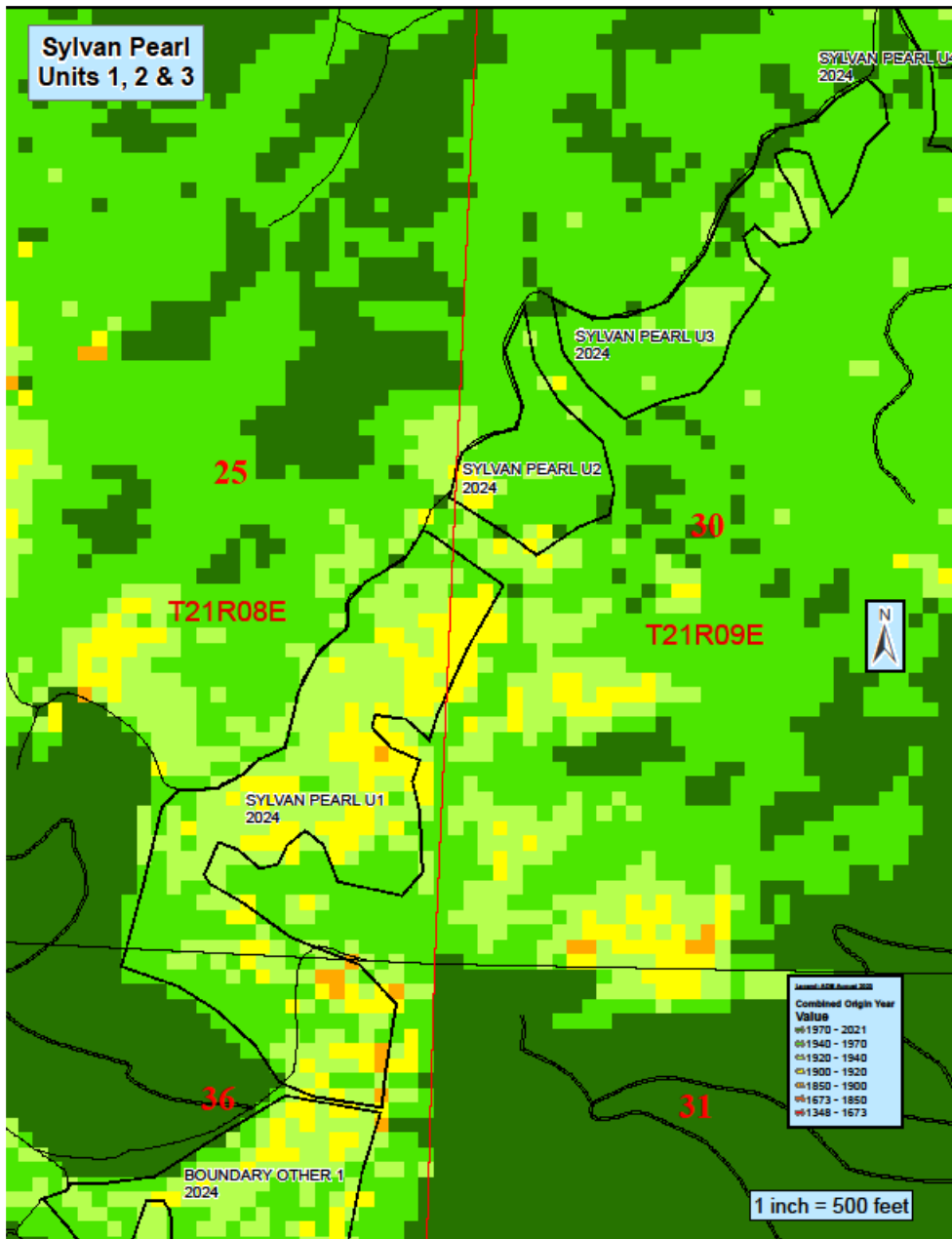
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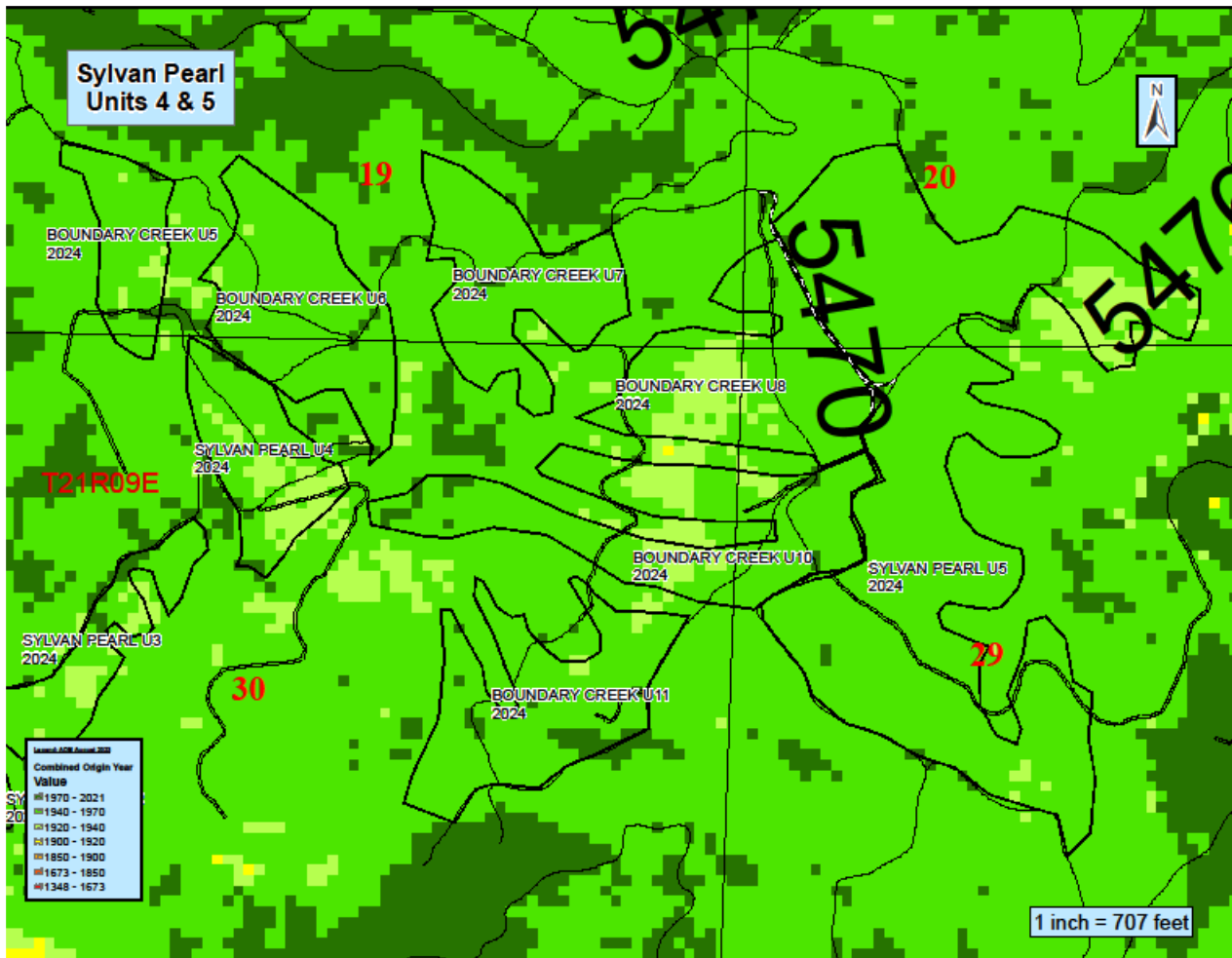


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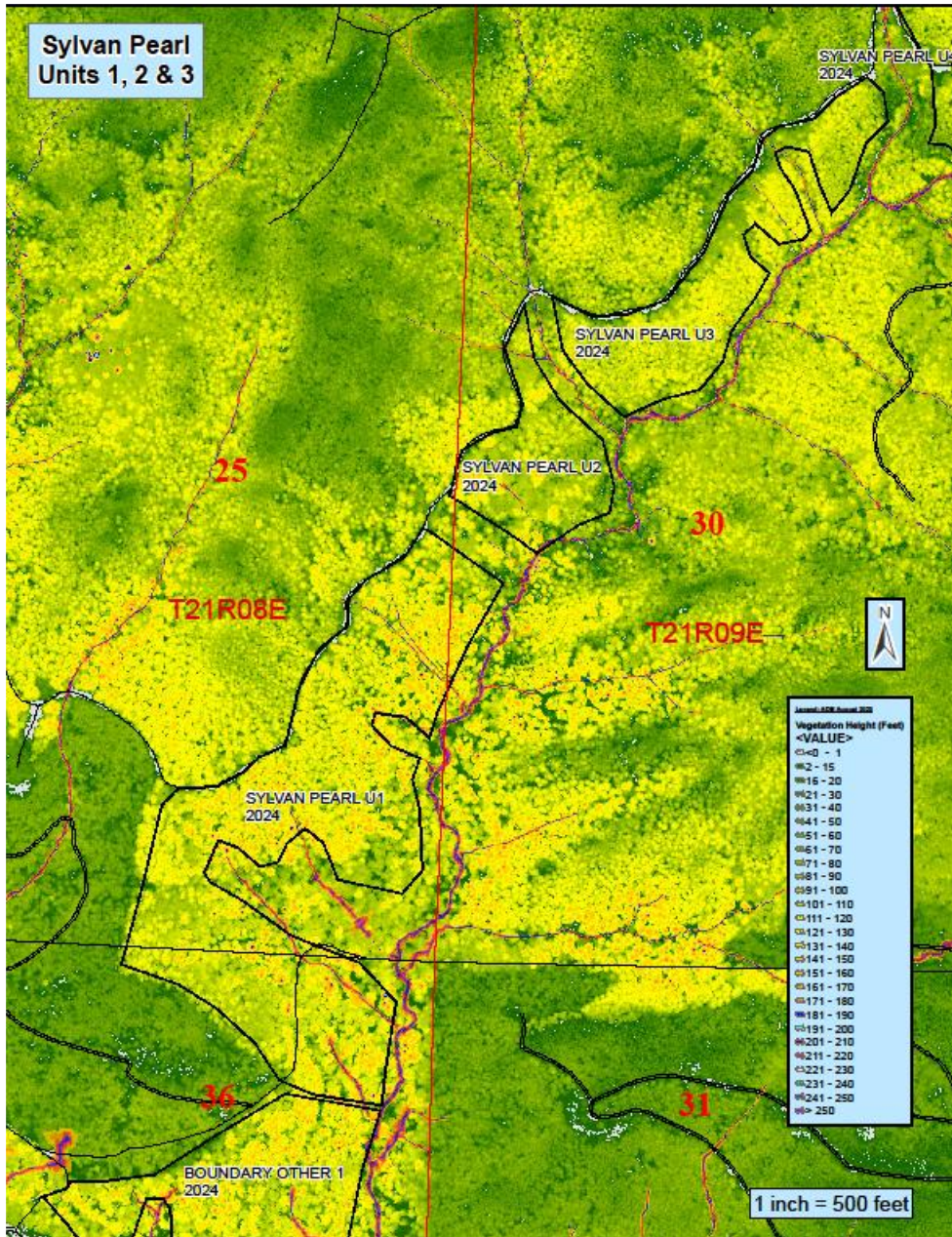
Variable Retention Harvest	Contours 40-foot	31 - 40	111 - 120
Right Of Way	Public Land Survey Sections	41 - 50	121 - 130
Sale Boundary Tags	Vegetation Height (Feet)	51 - 60	131 - 140
Right of Way Tags	<VALUE>	61 - 70	
Existing Roads	<0 - 1	71 - 80	
Optional Construction	2 - 15	81 - 90	
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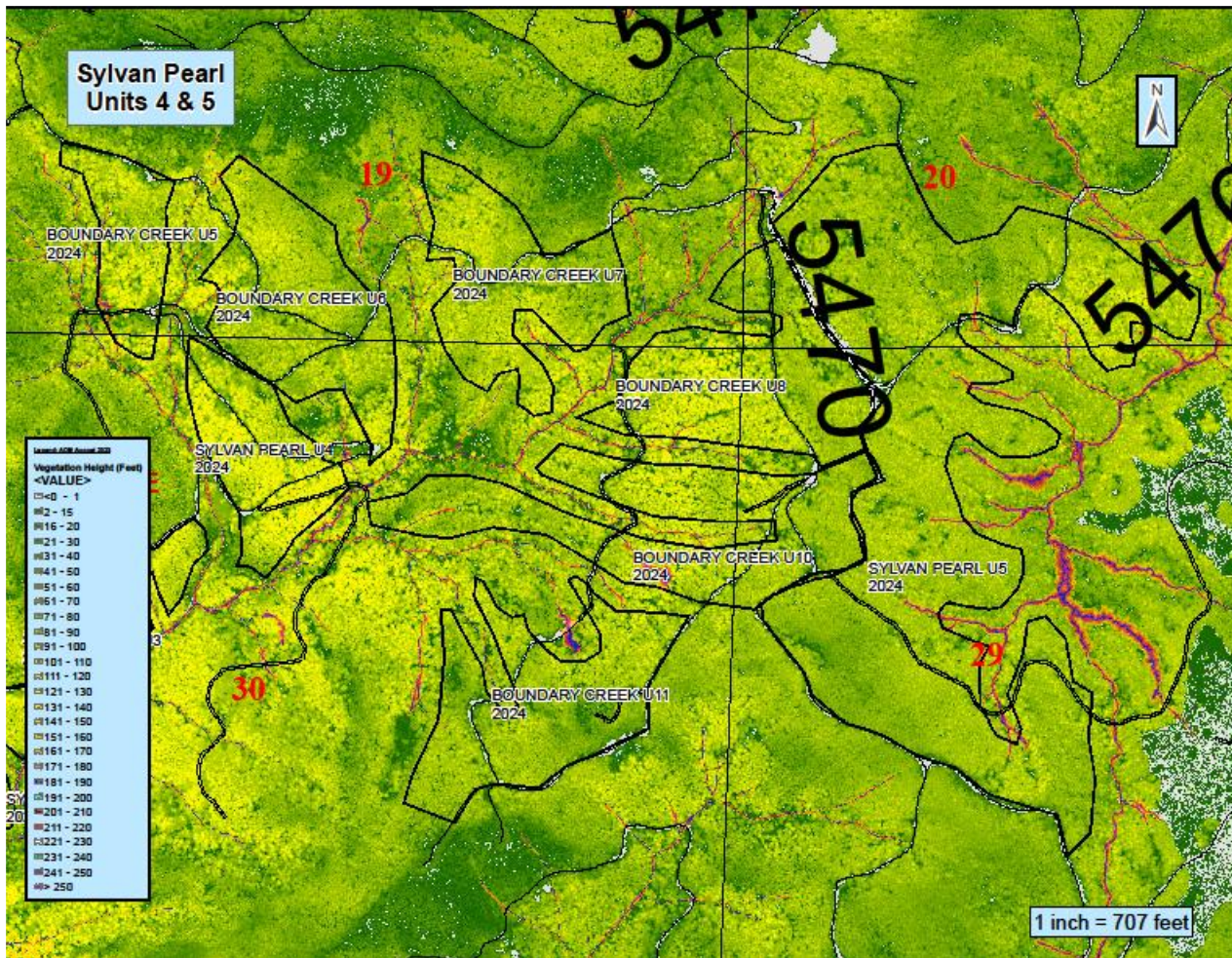
Combined Origin Year Map



Combined Origin Year Map



Vegetation Height Map



Vegetation Height Map