



Oregon Parks and Recreation Department

OPRD's Mission Statement

To provide and protect outstanding natural, scenic, cultural, historic and recreation sites for the enjoyment and education of present and future generations.



**Oregon Parks
and Recreation
Department**



2019

Oregon Parks and Recreation Department





2019

100



2021

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Oregon State Parks Historical Highlights

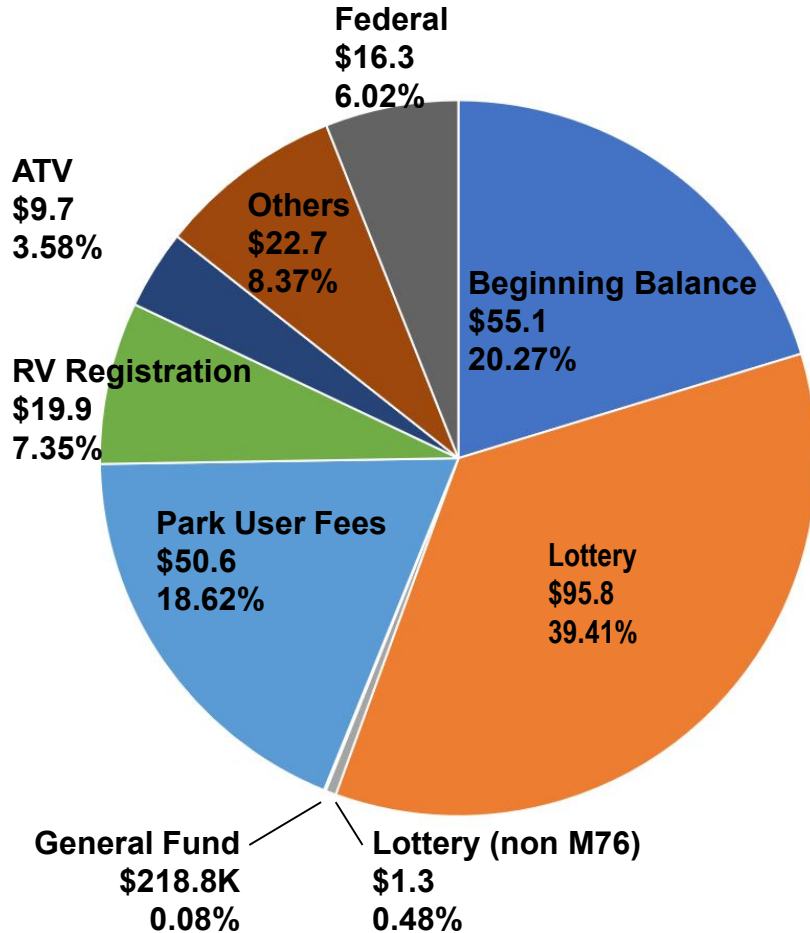
- 1921 Oregon State Parks is "born" as part of Oregon's highway system.
- 1922 Land for Oregon's first state park, Sarah Helmick State Park, is deeded to the state.
- 1933 Works Progress Administration (WPA) and Civilian Conservation Corps (CCC) era begins. The Depression-era relief work builds roads, trails & buildings at 45 state parks.
- 1952 Postwar recreation leads to development of campgrounds in 27 parks across the state.
- 1967 Oregon Beach Bill. Parks later assumes responsibility for ocean shoreline.
- 1973 Willamette River Greenway program introduced.
- 1980 Parks funding from gas tax abolished.
- 1989 Legislation creates Oregon Parks and Recreation Department.
- 1998 Measure 66 passes. Dedicates Lottery funds to State Parks for grants, new parks and infrastructure repair. Funds end in 2014, unless voters reauthorize.
- 2007 Stub Stewart State Park opens. It is the first new park/campground to open in 30 years.
- 2010 Measure 75 passes. The measure continues indefinitely a 15 percent set aside for Oregon parks and wildlife habit.
- 2013 Cottonwood Canyon State Park, established in 2013, is the second largest state park in Oregon, encompassing 8,000 acres on the lower John Day River

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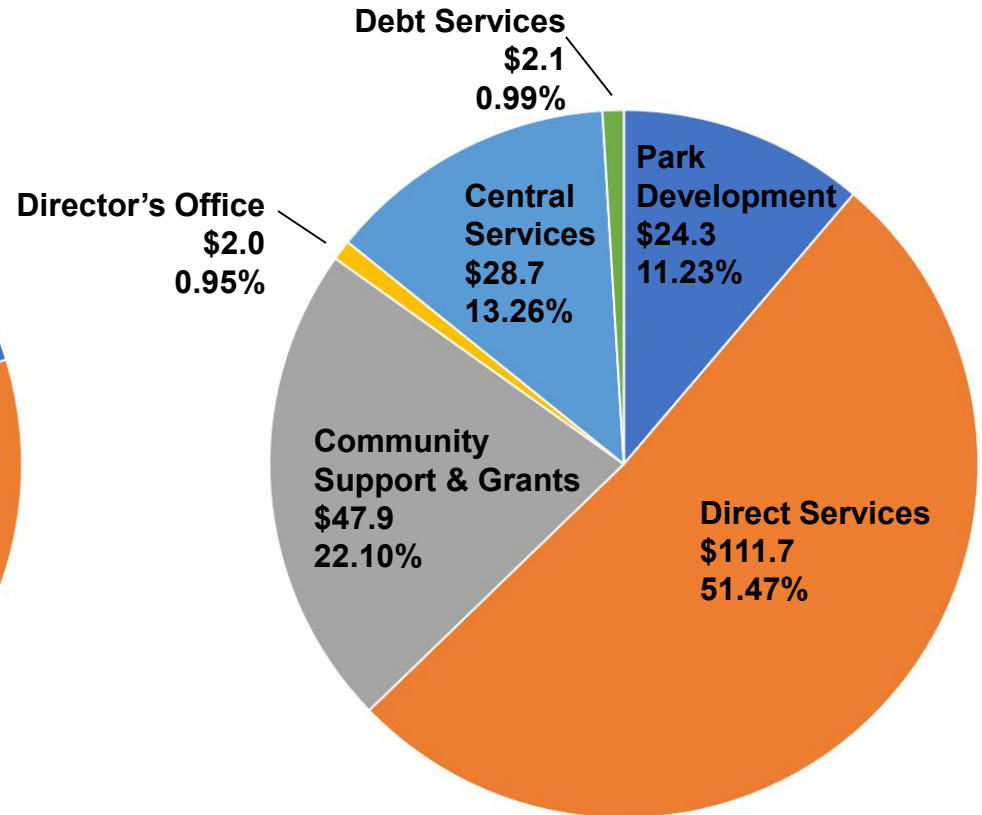
2017-2019 OPRD BUDGET REVENUES

Legislatively Adopted Total 272.1M



2017-2019 OPRD BUDGET EXPENDITURES

Legislatively Adopted Total \$217.0M



Source: OPRD Pocket Facts 2017-2018

Oregon Parks and Recreation Department



19-21 FIP Project List

Coastal Region

Park

Project Description

Fort Stevens	Repairs to RR in Historic Area; roof, south wall dry rot, retile/upgrade plumbing, S window.
Fort Stevens	Historic District Preservation Plan
Fort Stevens	Replace torch down War Games Bldg Roof
Fort Stevens	Guardhouse Roof & Priority Building repairs
Oceanside	Patch and overlay parking lot
Nehalem	Horse Concession host sites
Ecola	Repair Canyon CK culvert; FEMA funds 1/2 of \$480K
Neahkahnie Mt	Make utility access improvements to the existing road for handoff to County.
Fogarty Creek	Forest Management; POP to pay for this action
Otter Crest	Restoration of Lookout Gift Shop = Phase II. Biz accts avail for \$\$???amount???; \$75K for 21-23
Beverly Beach	Waste Water Treatment Plant upgrade; phase II design only; for 21-23
Beverly Beach	3-phase electrical upgrade; final investment in cabinet replacement; PUD partner
South Beach	FEMA - Amanda's Bridge replacement [Note: req \$75K from Trails]
Brian Booth	Park Development - mastication project and continued planning/pjt dev out of POP
Honeyman	Replace D & E RR with one site-built RR/shower; LWCF match = \$665K.
Bullards Beach	Replace 2800 LF of main sewer gravity line; may need to straddle into 21-23
Coquille River Lighthouse	Restore Lighthouse; begin w/ design phase
Sunset Bay	FEMA - Stabilize shoreline; protect archy site
Cape Blanco	Upgrade/repair septic system; 2 lifts, new drainfield (26023)
Cape Blanco	LH preservation plan
	Ft. Stevens or Fogarty, and Brian Booth planning



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19-21 FIP Project List

N. Valley Region

Park

Project Description

Portland Women's Forum	Design
Portland Women's Forum	Construct plumbed RR; Phase I cnstr in 19-21; Phase II 21-23 \$530K in 21-23; assumes LWCF funds across two biennia
Portland Women's Forum	FIP paving funds - 50% = ODOT; 50% FIP; \$195K total
Vista House	Phase I = 1/4 of envelope & dog houses @ Vista House + HVAC/climate control
Vista House	Install pre-treatment for drainfield; emergency
Mayer	Replace Boat Ramp, and Boarding Floats, & Pile = Cnstr Phase
Champoeg	Dock & culvert associated bank stabilization
Banks/ Vernonia	FEMA - Trail slide 80 feet
Banks/ Vernonia	Buxton Trestle repairs as Tophill mitigation - multi-phased
Milo McIver	Water syst improvements - Phase I completion
Silver Falls	N Falls complex - cont enhancement of white house; doesn't include parking lot or septic



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19-21 FIP Project List

N. Valley Region

Park

Project Description

Silver Falls	Install new dump sta near CG. \$200K
Silver Falls	Replace redwood water tank; LWCF match = \$350,500.
Silver Falls	Upper Smith Creek Sanitary Sewer System Installation; formerly 25647
Silver Falls	Rewrite of historical register nomination as part of SHPO mitigation following use of non-historic materials
Silver Falls	N Falls Complex - TBD
Sarah Helmick	Construct new site built restroom (2/2/1/1). Demolish two existing restrooms (3/2 and 3/3). (Non ADA). Remove asphalt trails from existing restroom. Widen Roadway for two way traffic (for winter traffic pattern). Connect to newly built Drain Field. Other amenities in future.
Sarah Helmick	Repair/regrade trails to restroom to meet ADA standards. Adjust partition walls and remove wing walls to allow access. Replace door and plumbing hardware with ADA.
Luckiamute	Road Improvements - FEMA match is approx. \$65K
Luckiamute	Road Improvements - PV \$15K
Dexter	Rehab DU swim area, incl banks
T Mills	Electrical survey and upgrade electrical circuits to identify which circuits are necessary, can be decommissioned and which can be shut down when not in use = reduce fire risk
T Mills	Install automatic Fire Suppression System; incl 33169
T Mills	Repair siding and re-paint the Mill; includes 27413 (broken columns; 320), 27415 (broken braces; 210)



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19-21 FIP Project List

Central Region

Park

Project Description

Cottonwood Canyon	Starvation CK road & RR development
Prineville	Well house/treatment
Prineville	Powder House Cove Chip Seal
Prineville	DU Road and Parking Lot paving project
Prineville	Pave entrance road and maintenance yard
Smith Rock	Replace failing 100'x6' ped bridge over the Crooked River; fund with POP \$300K
Smith Rock	Experience Center
Tumalo	Office/MU development. Budget \$1.6M est. (incl PV below of \$195K)
Tumalo	Office/MU development - Paving; \$195K total
Tumalo	Drainfield; ~ \$160K grant
Mtn Region Office	Office Remodel
OC&E	Bridge over HWY 140 - Cnstr phase
OC&E	Repair failing piles on Whiskey & Sycan bridges
Collier	Water system for new well (chlorinator, etc.)



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19-21 FIP Project List Eastern Region

Park

Project Description

Booth	Overlay 1250 foot road section
Valley of the Rogue	Pave road between A & B Loops
Joseph Stewart	Marina Dock Rebuild - Phase 1 - South ramp
TouVelle	Parking lot restoration
TouVelle	Boat Ramp Assessment + Design
33003	VOR Boat Ramp Assessment + Design
Wallowa Lake	Conduct river hydraulics study/restoration = match 4 partners
Bates	Fish Passage = POP
Wolf Creek	Balcony & historic impact repair
Unity Lake	Rehab boat ramp & railing syst; consider 27624



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2017 Umpqua Lighthouse S.P.



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2017 Umpqua Lighthouse S.P.



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2018 Umpqua Lighthouse S.P.



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2019 Umpqua Lighthouse S.P.

2018 Survey Requests by Section

Engineering	11
Real Estate	7
Park Manager Request	5
Natural Resource / Consultant	3
Planning	2
Cultural Resources	1
Other Agency	<u>1</u>
	30



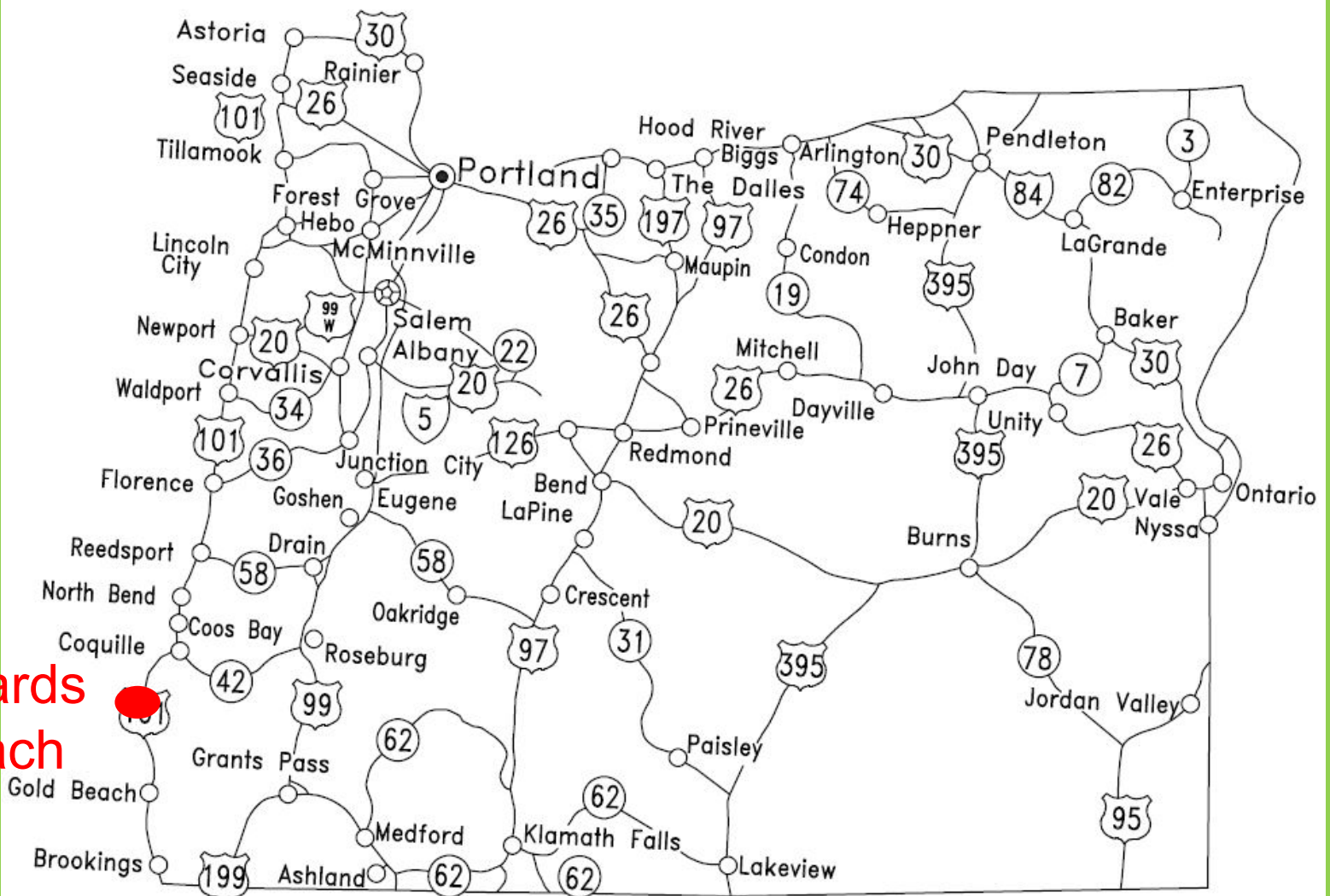
Other Agency Request

Oregon State Marine Board



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Bullards
Beach



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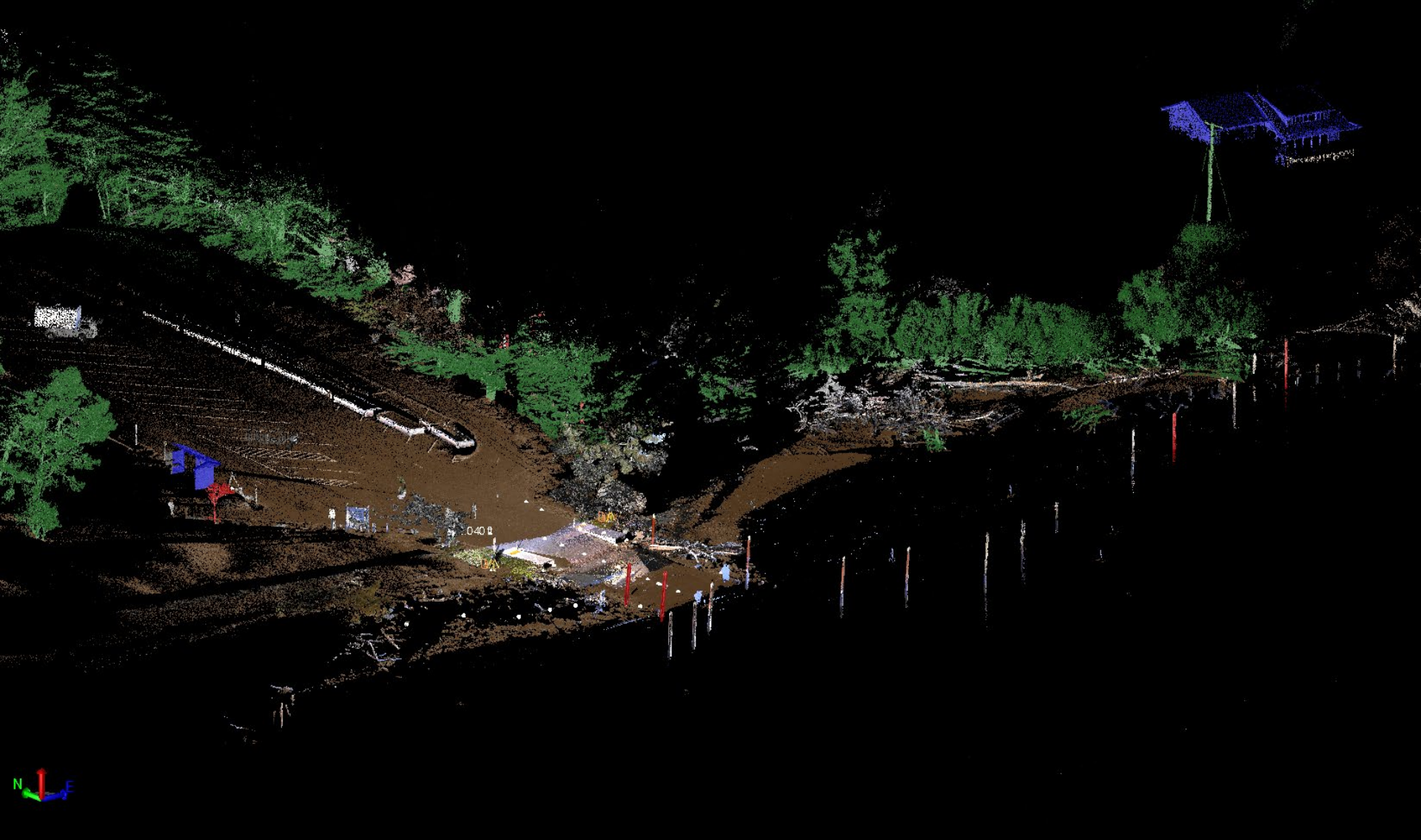
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FEATURE	NAVD88	MLLW
EXTREME LOW TIDE	-2.63'	-3.00'
MEAN LOWER LOW WATER (MLLW)	0.37'	0.00'
MEAN HIGH WATER (MHW)	6.67'	6.30'
HIGHEST WATER	10.87'	10.50'
100 YEAR FLOOD	16'+/-	15.6'+/-

APPROVED BOOKING FACILITIES MANAGER	DATE	
PAID CHECK BY	DATE	
J. SMITH	J. SMITH	09/20/18
DEPOSITED BY	BY	DATE

[illegible]

PROPOSED SITE PLAN
AT BULLARDS BEACH STATE PARK COQUILLE RIVER MILE 3.2
FOR OREGON PARKS AND RECREATION DEPARTMENT

OREGON STATE MARINE BOARD

03 SHEET	04 OF
0605 • 1583 • 03 DRAWING NO.	

Memorable Surveys



**Oregon Parks
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MOST Memorable Survey



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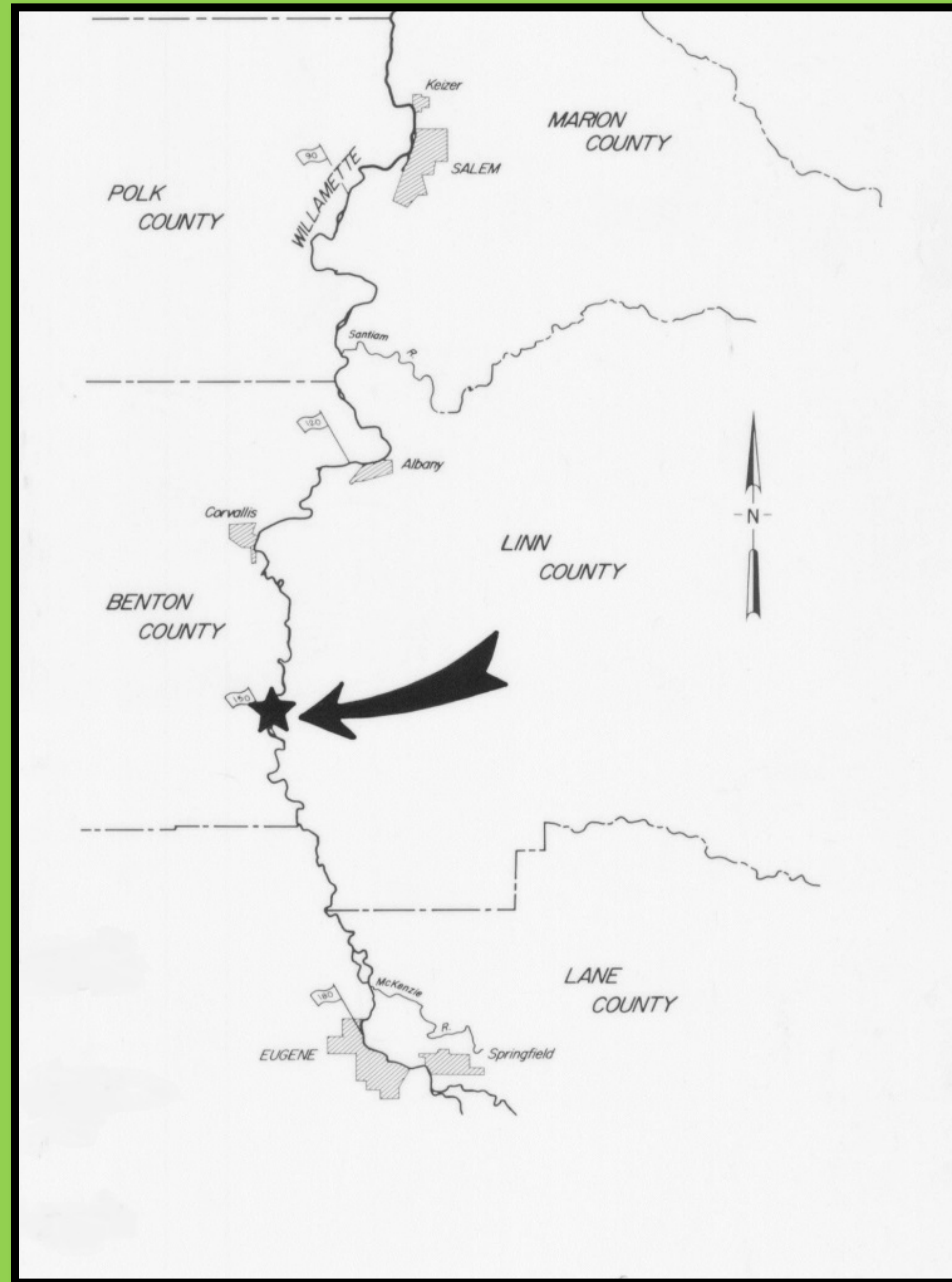
Chasing the Willamette River



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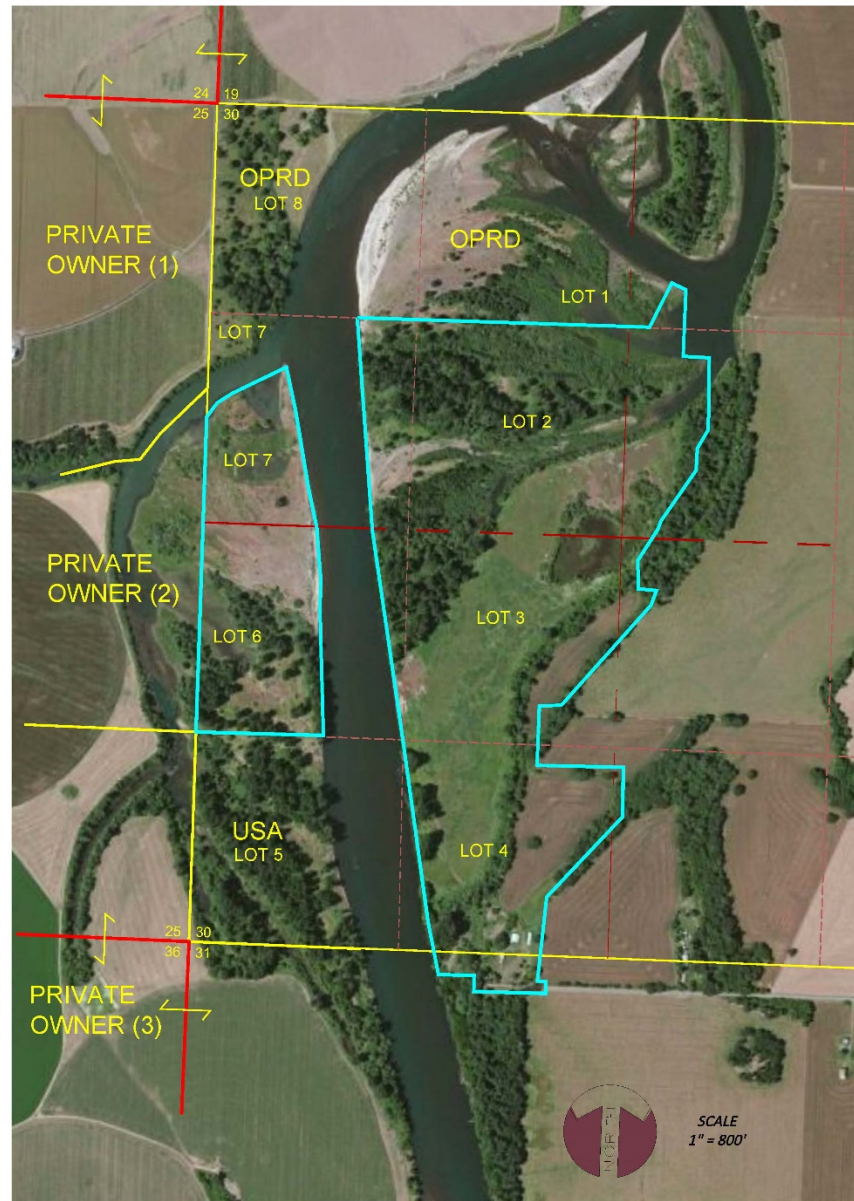


Oregon Parks and Recreation Department





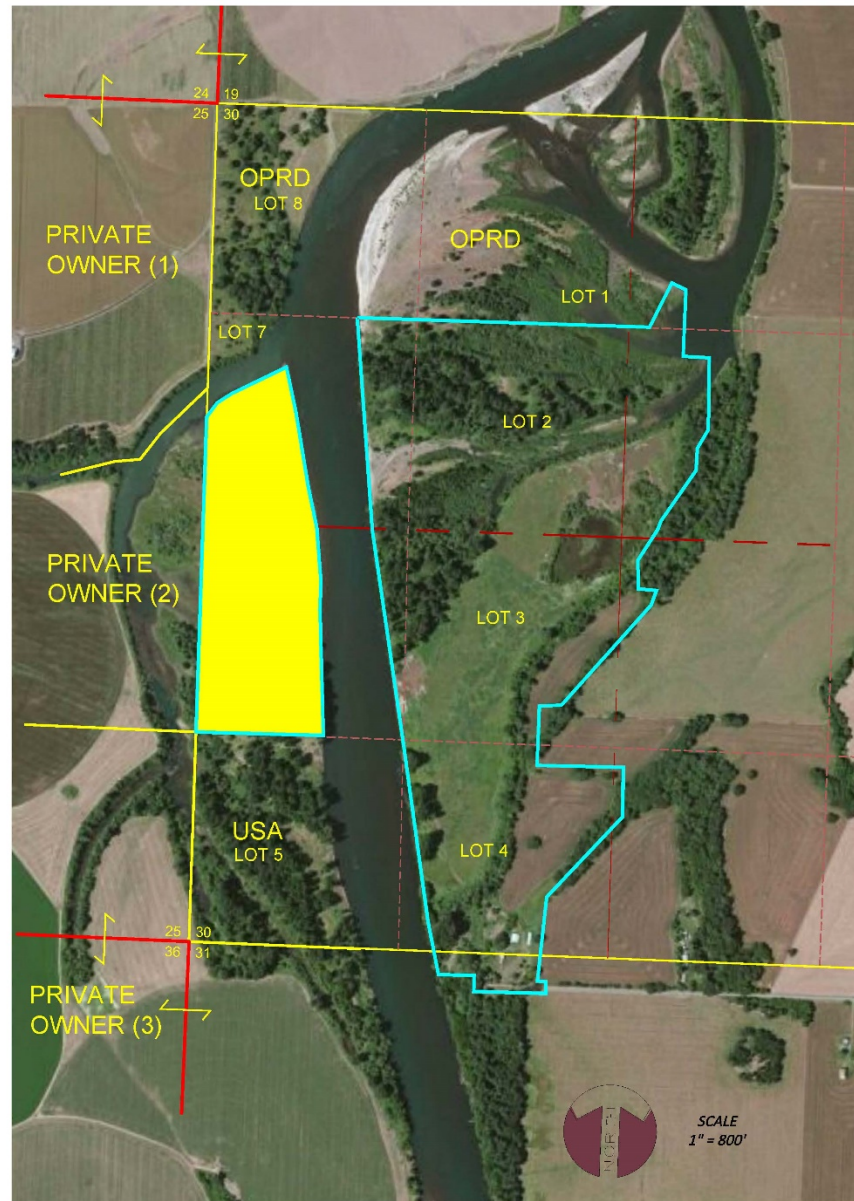
Oregon Parks and Recreation Department



SAM DAWS WILLAMETTE GREENWAY
TOWNSHIP 13 SOUTH, RANGE 4 WEST, SECTION 30



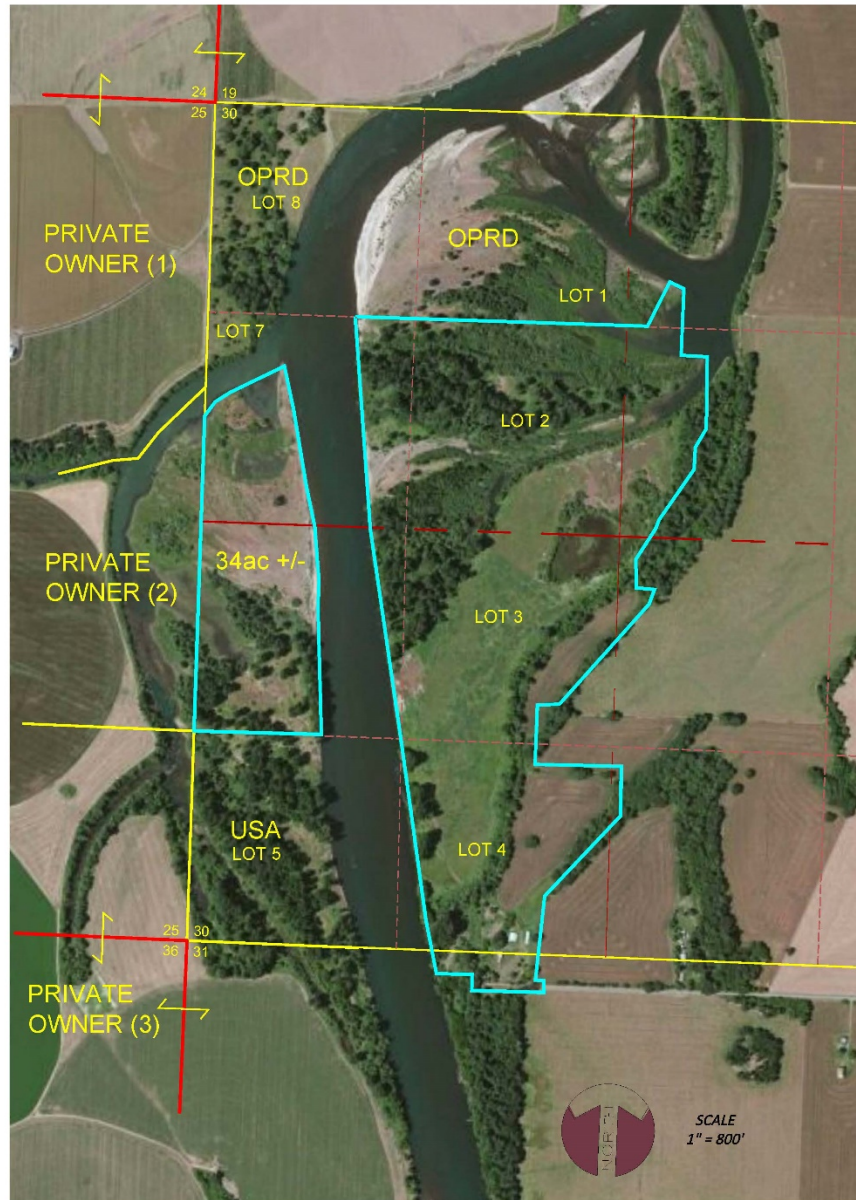
Oregon Parks and Recreation Department



SAM DAWS WILLAMETTE GREENWAY
TOWNSHIP 13 SOUTH, RANGE 4 WEST, SECTION 30



Oregon Parks and Recreation Department



SAM DAWS WILLAMETTE GREENWAY
TOWNSHIP 13 SOUTH, RANGE 4 WEST, SECTION 30

In House Research



**Oregon Parks
and Recreation
Department**

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, That ALBERT A. WILT, hereinafter called "Grantor", for the consideration of the sum of Fourteen Thousand Three Hundred and No/100 DOLLARS (\$14,300.00) received, does hereby convey unto the STATE OF OREGON, by and through its DEPARTMENT OF TRANSPORTATION, Highway Division, hereinafter called "Grantee", the following described property, to wit:

A parcel of land lying in Section 30, Township 13 South, Range 4 West, W.M., State of Oregon, the said parcel being Lot 6 and that portion of Lot 7 of said Section 30 lying Southerly of the Willamette River as presently located.

And Grantor does hereby covenant to and with Grantee, its successors and assigns, that he is the owner in fee simple of said property which is free from all encumbrances and will warrant and defend the same from all lawful claims whatsoever.

Also for the above stated consideration, Grantor relinquishes and conveys to Grantee, his interest, if any, in that property lying Westerly of the above described property and Easterly of the Willamette River as presently located.

Dated this 18th day of Sept, 1973.

Albert A. Wilt
Albert A. Wilt



Oregon Parks
and Recreation
Department

STATE OF OREGON, County of Benton

18th Sept., 1973. Personally appeared the above named Albert A. Wilt, who acknowledged the foregoing instrument to be his voluntary act. Before me:

Lois Edwards
Notary Public for Oregon

My Commission expires Feb-15-1974

ka/ba

34860
REC-24-73 Benton CO
#43653

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REC

9-24-73
#43

REC

9-24-73
#43

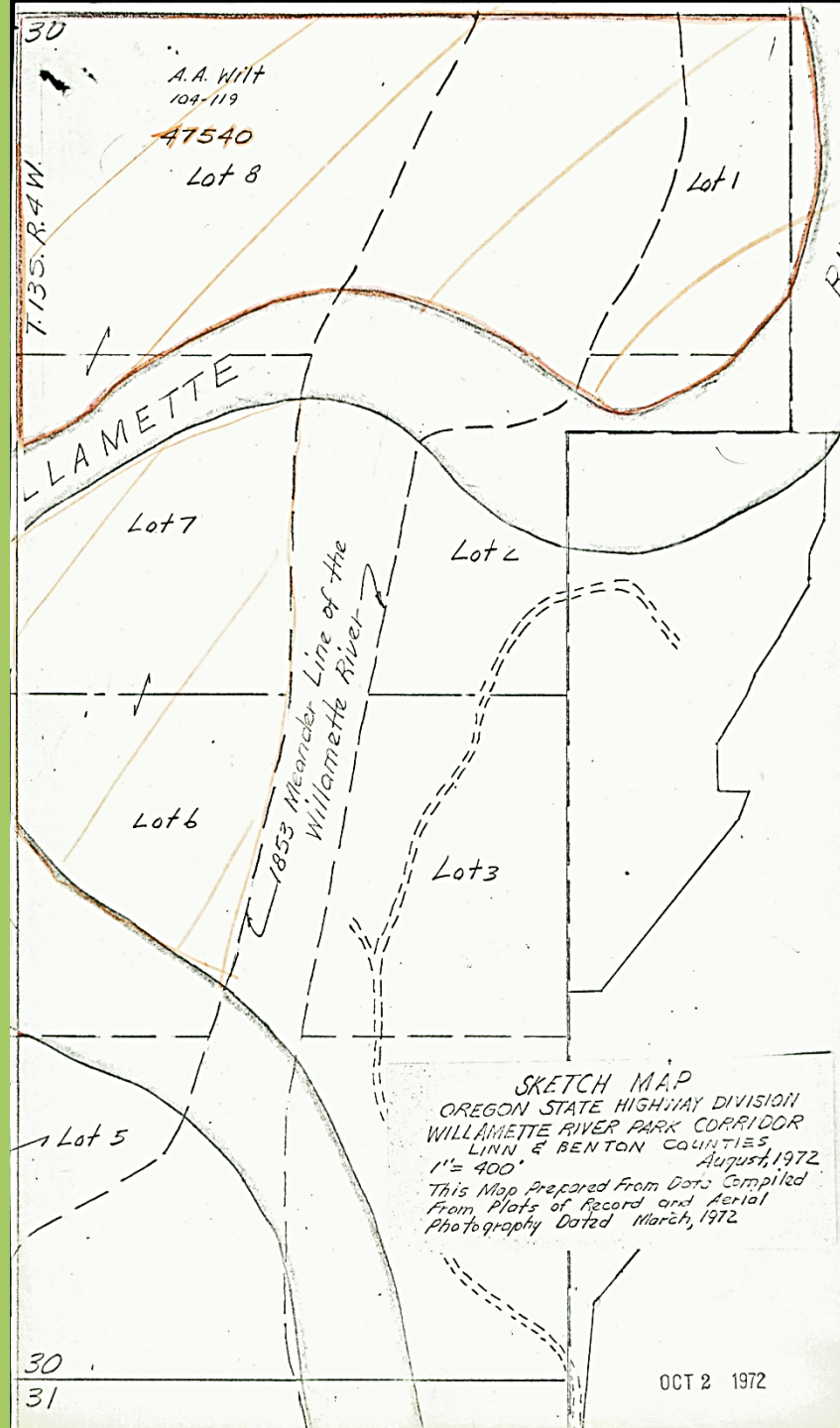
Benton co



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and Recreation
Department



Oregon Parks and Recreation Department

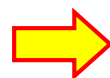


SCHEDULE A

Amount \$ 48,500.00

Premium \$ 217.00

Policy No. 43-1686



Effective Date September 9, 1973 @ 5:00 P.M.

INSURED

STATE of OREGON, by and through its DEPARTMENT of
TRANSPORTATION, HIGHWAY DIVISION

The fee simple title to said land is, at the date hereof, vested in

State of Oregon, by and through its Department of Transportation,
Highway Division.



Oregon Parks
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Department

The land referred to in this policy is described as:

Government Lots 6, 7 and 8 in Section 30 Township 13 South Range
4 West of the Willamette Meridian Oregon, as shown on G.L.O. map dated
August 29, 1855.

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Mapping the River



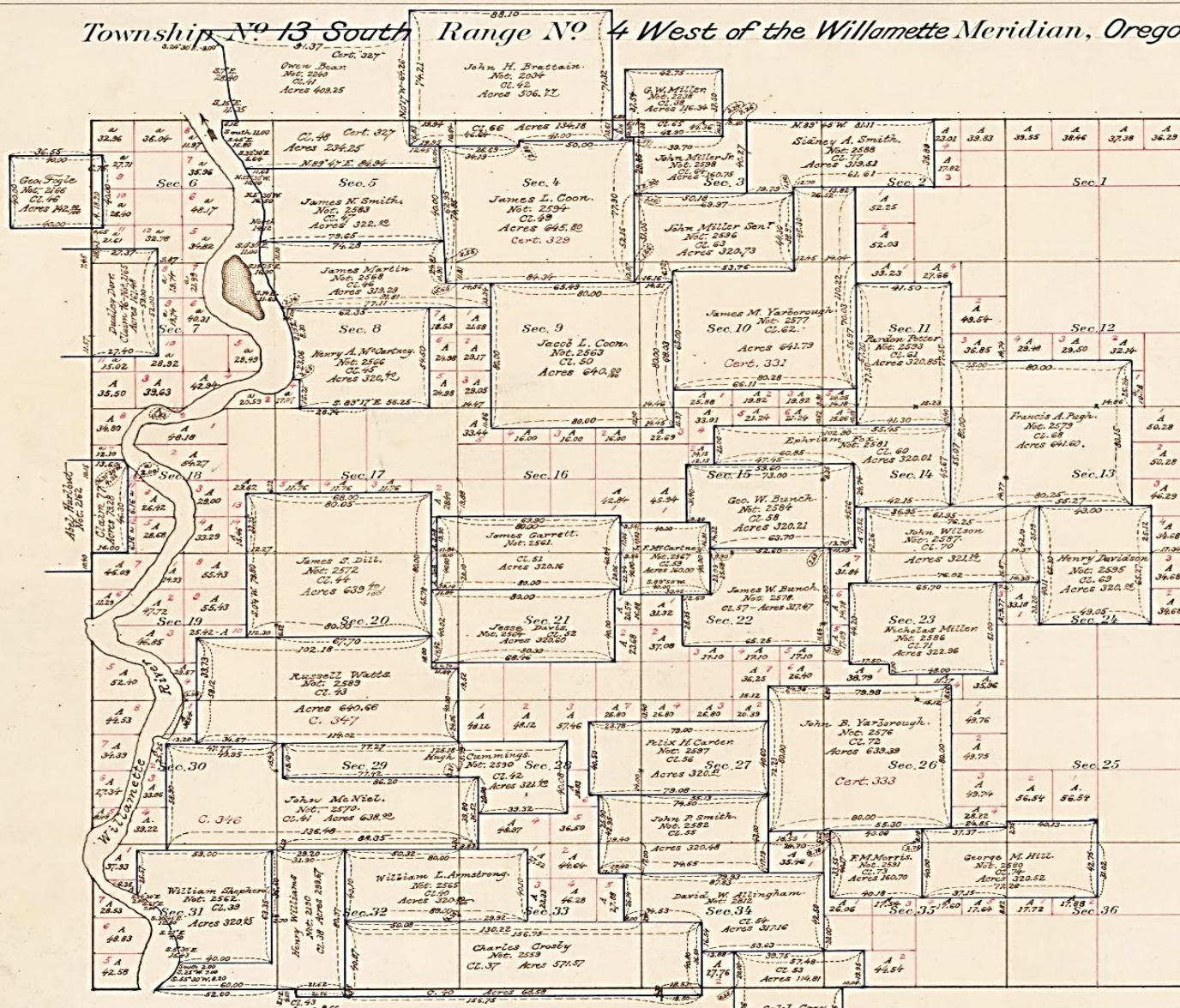
**Oregon Parks
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Township N^o 13 South Range N^o 4 West of the Willamette Meridian, Oregon.

Survey accepted G. L. O.

19

1855



-Addenda

Claims No. 76 & 77, T.13 S., R.4 W. are strictly conformable to the field notes of the survey thereof on file in this Office which have been examined and approved.
Surveyor General's Office
Salem, July 8th, 1853.

July 8th, 1853.
W. H. Chapman.
Sur Gen. Oregon.

I certify the above to be a correct copy of the original plat on file in this office.

U.S. Surveyor General's Office.

September 17, 1921.
Edward A. West
Surveyor General of Oregon.

<i>Areas in Acres</i>	
<i>Public Land</i>	
<i>Indian Reservation</i>	
<i>Indian Allotments</i>	
<i>Mineral Claims</i>	
<i>Water Surface</i>	
<i>Total Area</i>	

Scale 40 Chains to an inch

Mean Magnetic Declination

[illegible]

The above map of ^{Claims in} Township No. 13 S. Range No. 4 West of the Willamette Meridian Territory of Oregon, is strictly conformable to the field notes of the survey thereof on file in this office, has been examined and approved

Surveyor General's Office

Salem, August 29th 1855.

C. K. Gardner
Surveyor General of Oregon.

1.

1855

Surveyor General of Oregon.

Edward H. Merrill
Surveyor General of Oregon

Scale 40 Chains to an inch

Mean Magnetic Declination

Salem. August 29th 1855.

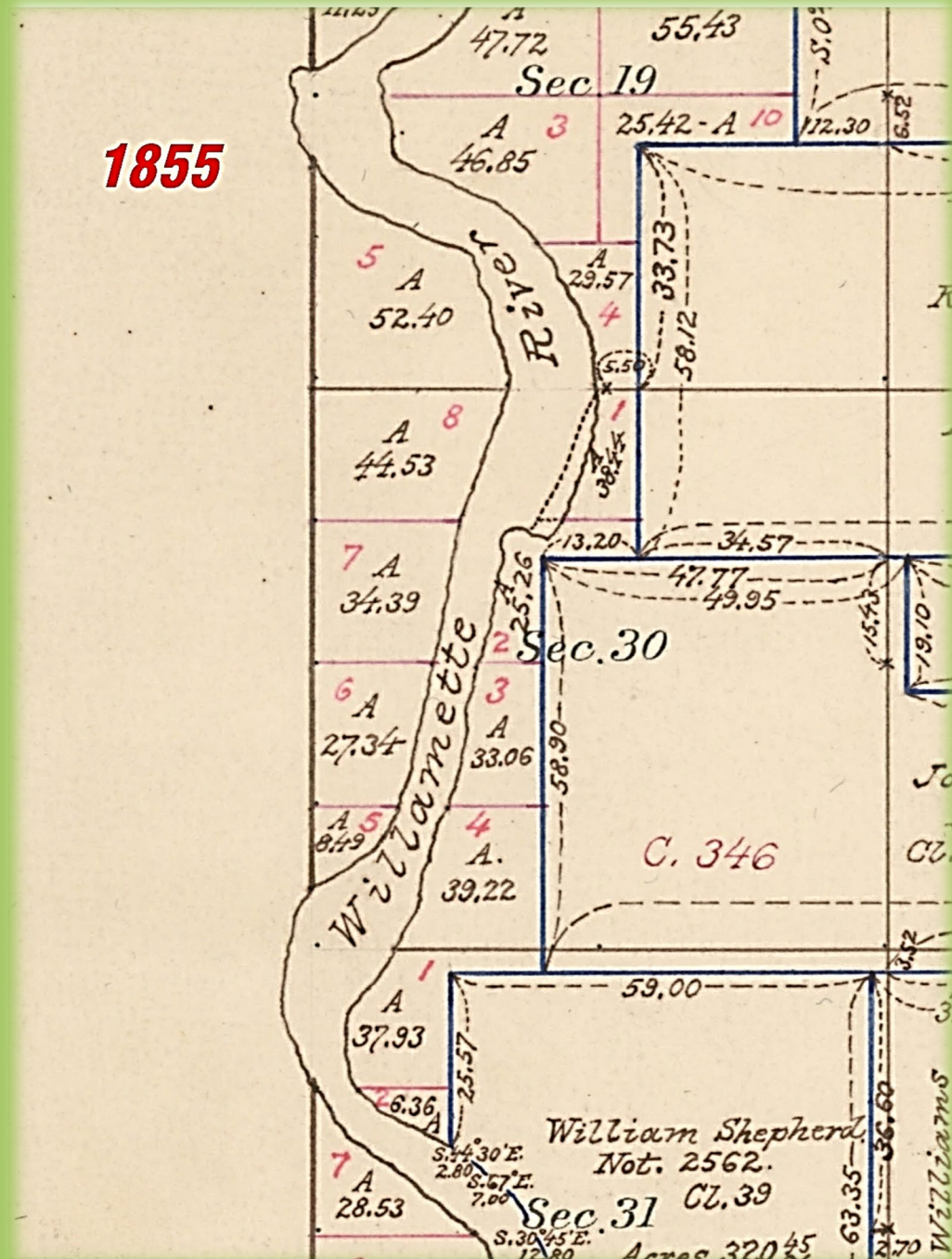
Meridian Territory of Oregon, is strictly conformable to the field notes of the surveys thereof on file in this office, which have been examined and approved

Surveyor General of Oregon

1855



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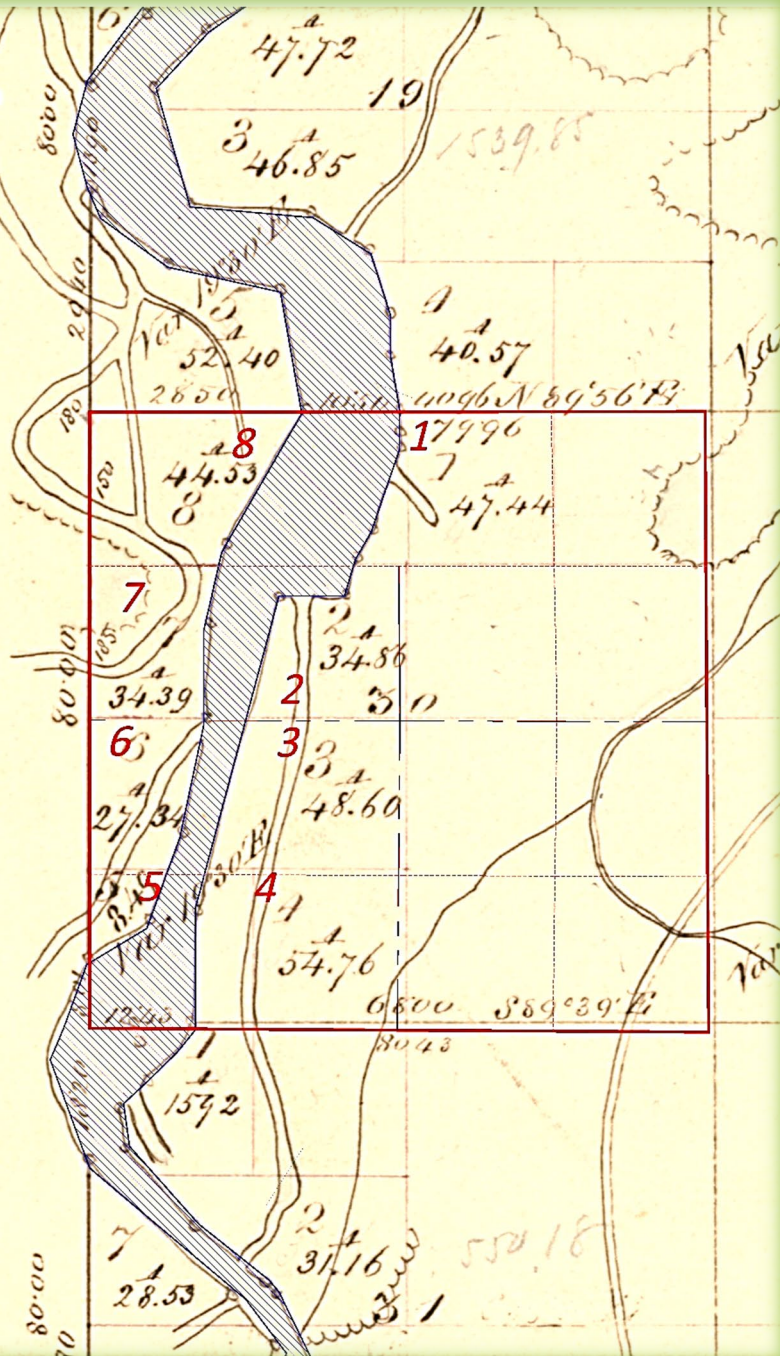
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1853



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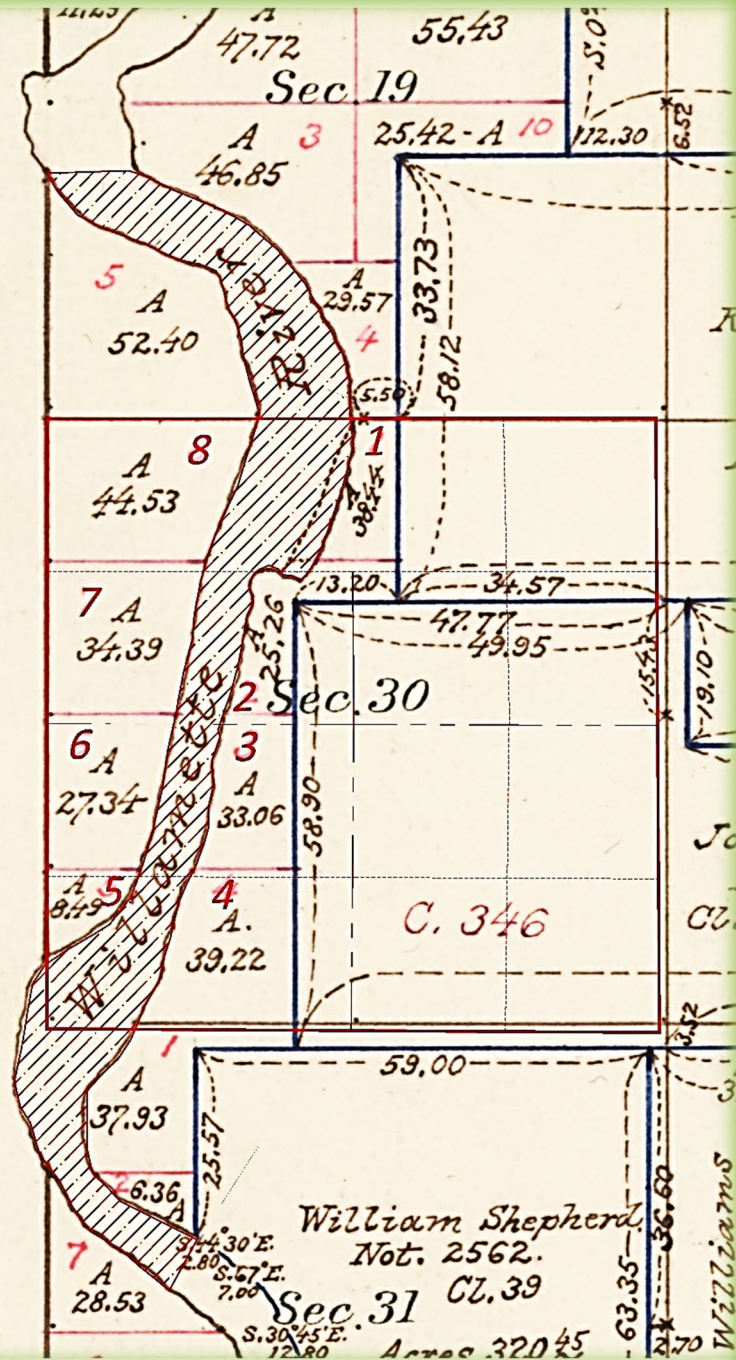


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1855



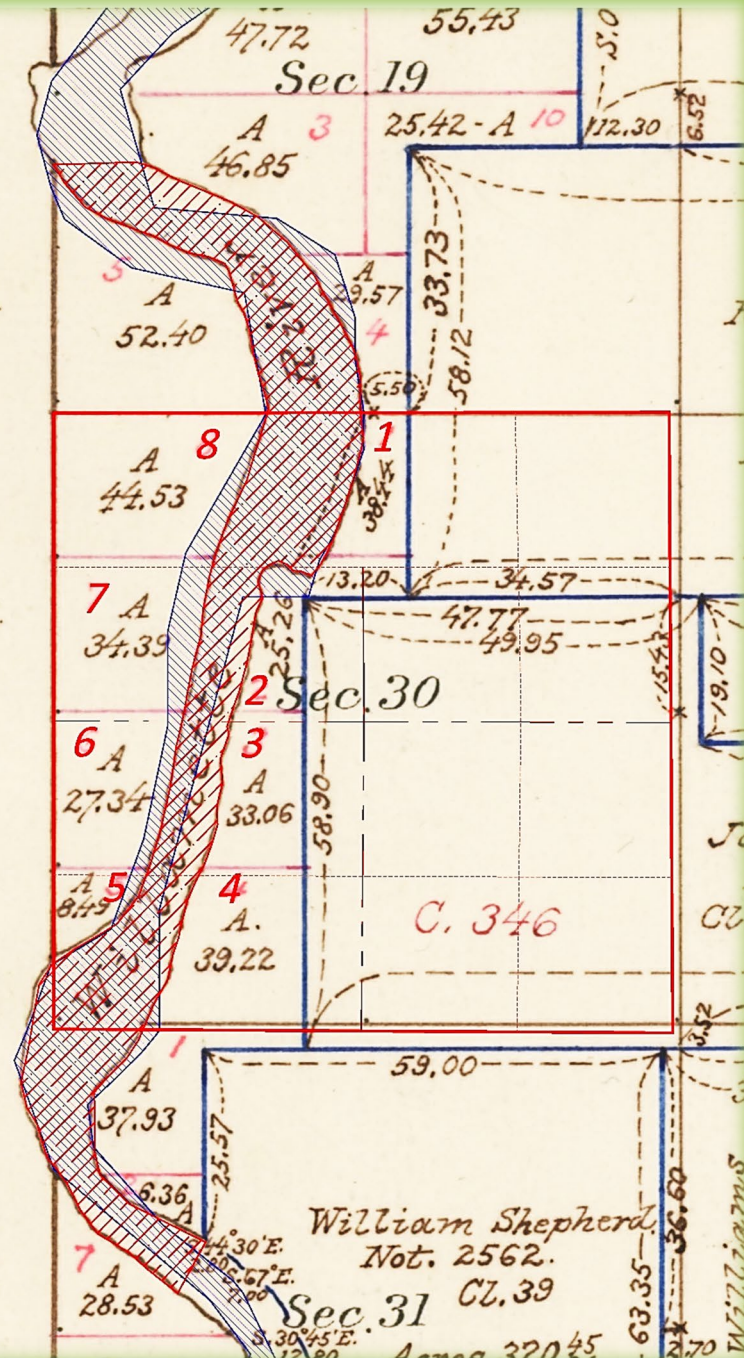
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1853
1855



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Legal Review



**Oregon Parks
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Legal Review

2 Definitions

Accretion

Avulsion



**Oregon Parks
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2 Court Cases

Beaver v. United States, 350 F. 2d4 (1965)

Oregon v. Corvallis Sand & Gravel 429 U.S. 363 (1977)

Accretion

2009 Manual of Surveying Instructions (8-76)

The process of deposition is called “Accretion”. Accretion is defined as the grain-by-grain deposition of soil along the bank of a river. The term is applied both to the gradual and imperceptible deposition of material and the bank of a body of water and to the land formed by this process. It is usually accompanied on the opposite side of the stream by the reverse process, erosion. Both accretion and erosion can affect land boundaries, including the boundaries of Federal interest lands.



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Accretion

Oregon Supreme Court (2014): Sea River Properties, LLC v. Parks

Accretion is a geological process by which new land forms when sand, silt, or soil is gradually and imperceptibly deposited on the edge of existing land.



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Beaver v. United States, 350 F.2d4 (1965)

The *Beaver* case affirms that, in federal decisions at least*, accretions must be claimed on the same side of the river as the upland holdings...

...in the absence of any avulsion.



Oregon Parks
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Beaver v. United States, 350 F.2d4 (1965)

The *Beaver* case affirms that, in federal decisions at least*, accretions must be claimed on the same side of the river as the upland holdings...

...in the absence of any avulsion.

*Oregon v. Corvallis Sand & Gravel 429 U.S. 363 (1977)

- The U.S. Supreme Court stated that they were had been wrong in *Bonelli* and that the matter should be decided under Oregon State Law.
- Oregon Supreme Court held that Oregon Law was that avulsive changes works no change in the boundary.
- Therein this outcome meant that Oregon Law and federal common law in this matter are the same.



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Avulsion

2009 Manual of Surveying Instructions (8-97)

- An avulsive change cannot be assumed to have occurred without positive evidence.
- Positive evidence is direct proof of the facts establishing that an avulsion had occurred and does not arise from any presumption.
- When no such showing can not be made, it must be presumed that the changes have been caused by erosion and accretion.



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3 5 24

T 13 S R 5 W, W.A.T.

T13 S. R4 W. W.M.

1" = 400'

Note: Over-claims
shown are based on
what has been turned in
by assertion and/or last
by erosion and should not
be used in determining an
8/29/72

L. Nowman et al
(Paw title Co.)

9-02

LOT 8

44.53

Lot 1
38.440

Call Watt
C. No 43

John McMe

84.3

5

102

500
47.004c.
5225

24-01

Grace Bros Inc
(Per Title Co)

LOT 7

• 5AM

DAWS

3

W. H. Rentsch

Lot 3
330 Goe.

LOT

38.71

I. M. Harning et al.
(per Title Co.)

8.49

200

24-01

Lot 4
3322 ac

S.W. Cor.
John McNie

C. No 4
1/4 | Cor

74 Cor. 1
DL = n + 1 S Line

COUNTY ROAD No 217

SEE MAP 13 4 2

N. W. Cor.
1st St. Shepherd
Box C. No. 32

1P 13 5 36

3 5 24

T 13 S R 5 W W.M.

T 13 S. R 4 W. W.M.

1" = 400'

Note: Over-sight
shown are has
what has been thought to
by excavation and should
be used in determining
8/24/72

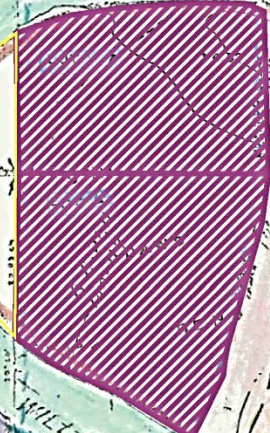
L. Nowman et al
(Per Title Co)

9-02

02

24-01

Grace Bros Inc
(Per Title Co)



LOT 1
38.71

I. M. Horning et al
(Per Title Co)

24-01

W. H. Bentsch
242-15

Lot 3
33.06 ac.

Lot 4
3022 ac.

S.W. Cor.
John McNiel
D.L.C. No 41
1/4 Cor.

COUNTY ROAD No 217

SEE MAP 13 4 3

AP 13 5 36

N.W. Cor.
John Shepherd
D.L.C. No 19

3 5 24

T 13 S R 5 W W.M.

T 13 S. R 4 W. W.M.

1" = 400'

Notes: Over-sites shown are bas on what has been shown to by section and should be used in determining area 8/24/72

L. Nowman et al
(Per Title Co)

9-02

02

24-01

Grace Bros Inc
(Per Title Co)

LOT 1
38.71

I. M. Horning et al
(Per Title Co)

24-01

U. H. Bentz et al
242-15

Lot 3
33.06 ac.

Lot 4
39.22 ac.

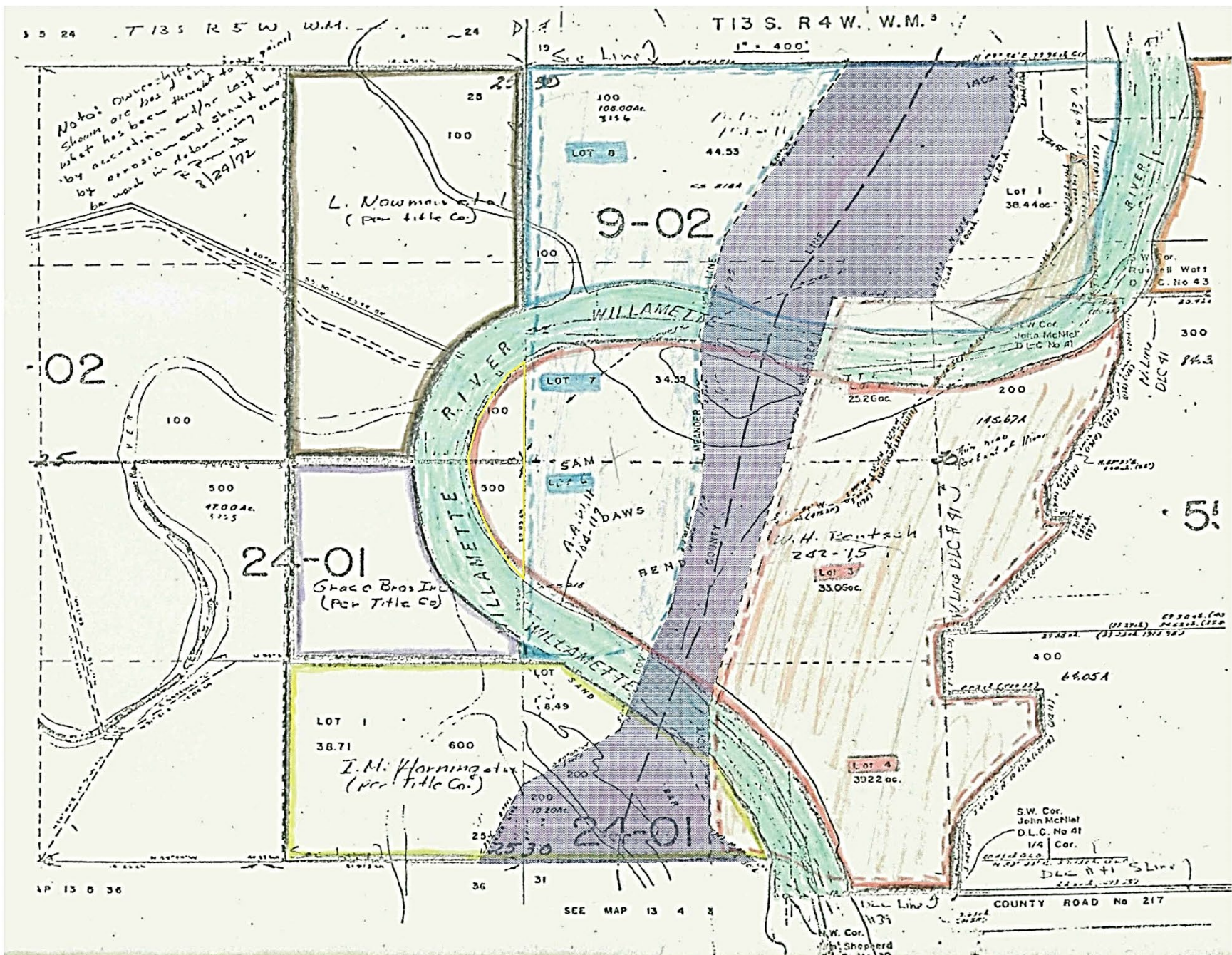
S.W. Cor.
John McNeil
D.L.C. No 41
1/4 Cor.
D.L.C. No 41
D.L.C. No 41
D.L.C. No 41

AP 13 B 36

SEE MAP 13 4 3

COUNTY ROAD No 217

N.W. Cor.
John McNeil
D.L.C. No 41



The River Back Then



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Department**

T T 19.

IMPROVEMENT OF WILLAMETTE RIVER ABOVE PORTLAND, AND THE
YAMHILL RIVER, OREGON.

Original condition.—Prior to improvement the mouth of the Yamhill River, 40 miles above Portland, was the head of low-water navigation on the Willamette River, with a draft of $2\frac{1}{2}$ feet. A draft of but 1 foot could be carried above and the channel was greatly obstructed by snags, rocks, and gravel bars.

Approved project.—The project for improvement, adopted in 1878, contemplated the removal of snags and other obstructions, and the contraction of the river in wide places with a view to securing a navigable channel for light-draft boats from Portland to Eugene, a distance of 172 miles. In 1892 the project was extended to include the removal of obstructions in the Yamhill River from its mouth to McMinnville, a distance of 17 miles.

The present project proposes the improvement of the Willamette River from Portland to Eugene by the removal of obstructions and the building of controlling works, with a view of obtaining a depth of 12 feet or more from Portland to the foot of Clackamas Rapids (11 miles); of 3 to $3\frac{1}{2}$ feet thence to Corvallis (107 miles), and of from 2 to $2\frac{1}{2}$ feet from Corvallis to Eugene (53 miles). Estimated cost, \$131,697. On the Yamhill River the project contemplates the construction of a lock and dam at Lafayette and the removal of obstructions to provide a draft of $3\frac{1}{2}$ feet throughout the year from the mouth of the river to McMinnville. Estimated cost, \$69,000.

The total amount appropriated to and including the appropriation of August 17, 1894, was \$248,500. Of this sum \$5,000 was allotted to the Yamhill River and \$8,000 to the improvement of the Willamette River (construction of bank revetment) at Corvallis.



Oregon Parks
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T T 19.

IMPROVEMENT OF WILLAMETTE RIVER ABOVE PORTLAND, AND THE
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3282 Report of the Chief of Engineers, U. S. Army

WORK DONE DURING THE FISCAL YEAR 1896.

Willamette River.—At the beginning of the year the U. S. snag boat *Corvallis*, Capt. H. L. Hatch, was engaged on the revetment in the bend of the river near Corvallis, for which an allotment of \$8,000 was made by the river and harbor act of August 17, 1894, completing the same on July 12.

Between July 13, 1895, and March 12, 1896, on which latter date the *Corvallis* was wrecked on a bar about 10 miles below Eugene, this snag boat was engaged for one hundred and sixty days in removing obstructions to navigation between Portland and Eugene, the result of her operations being the removal of 531 snags from the channel; 325 stumps, overhanging trees, etc., from the banks of the river; the deepening of the channel and the removal of the old wing dam at Candianis Bar (45 miles above Portland), the removal of drift jams at Junction Landing (157 miles above Portland), and at Snagboat Bend (132½ miles above Portland); and the removal to low-water line of the rock point at Clackamas Rapids (11¾ miles above Portland).

In addition to the work of the snag boat, as above reported, a small party supplied with the necessary tools, explosives, etc., operated during extreme low water (December 1–14) between Harrisburg and Snagboat Bend (151½ and 132½ miles above Portland, respectively), removing 99 snags from the channel and 59 stumps and overhanging trees from the banks of the river.



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TABLE 3
Willamette River Floods That Exceeded 1964
Flood Flows

Water year	Date	Albany	Salem
1862	Dec 1861	340,000	500,000
1881	Jan 1881	266,000	428,000
1890	Feb 1890	291,000	448,000
1901 ^a	Jan 1901	231,000	329,000
1903	Jan 1903	233,000	283,000
1907	Feb 1907	229,000	325,000
1910	Nov 1909	226,000	315,000
1923	Jan 1923	206,000	348,000
1927	Feb 1927	191,000	(243,000) ^a
First two dams constructed 1941, 1942			
1943	Jan 1943	218,000	(291,000) ^a
1946	Dec 1945	206,000	255,000
1948	Jan 1948	185,000	(242,000) ^a
1964	December 1964 flood	186,000	308,000

Note: Instantaneous peak discharges prior to dams that were larger than the 1964 peak flow at the Albany and Salem gauges. Discharge in ft³/s (cubic feet per second).

^a Salem peak discharge did not exceed the 1964 flood, but are included for reference.

From U.S. Geological Survey, Willamette River at Albany and Salem, Oregon, Station Numbers 14174000 and 14191000, Waterstore discharge data, Portland, OR, 1995.



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The Mapping Era 1855 - 1936

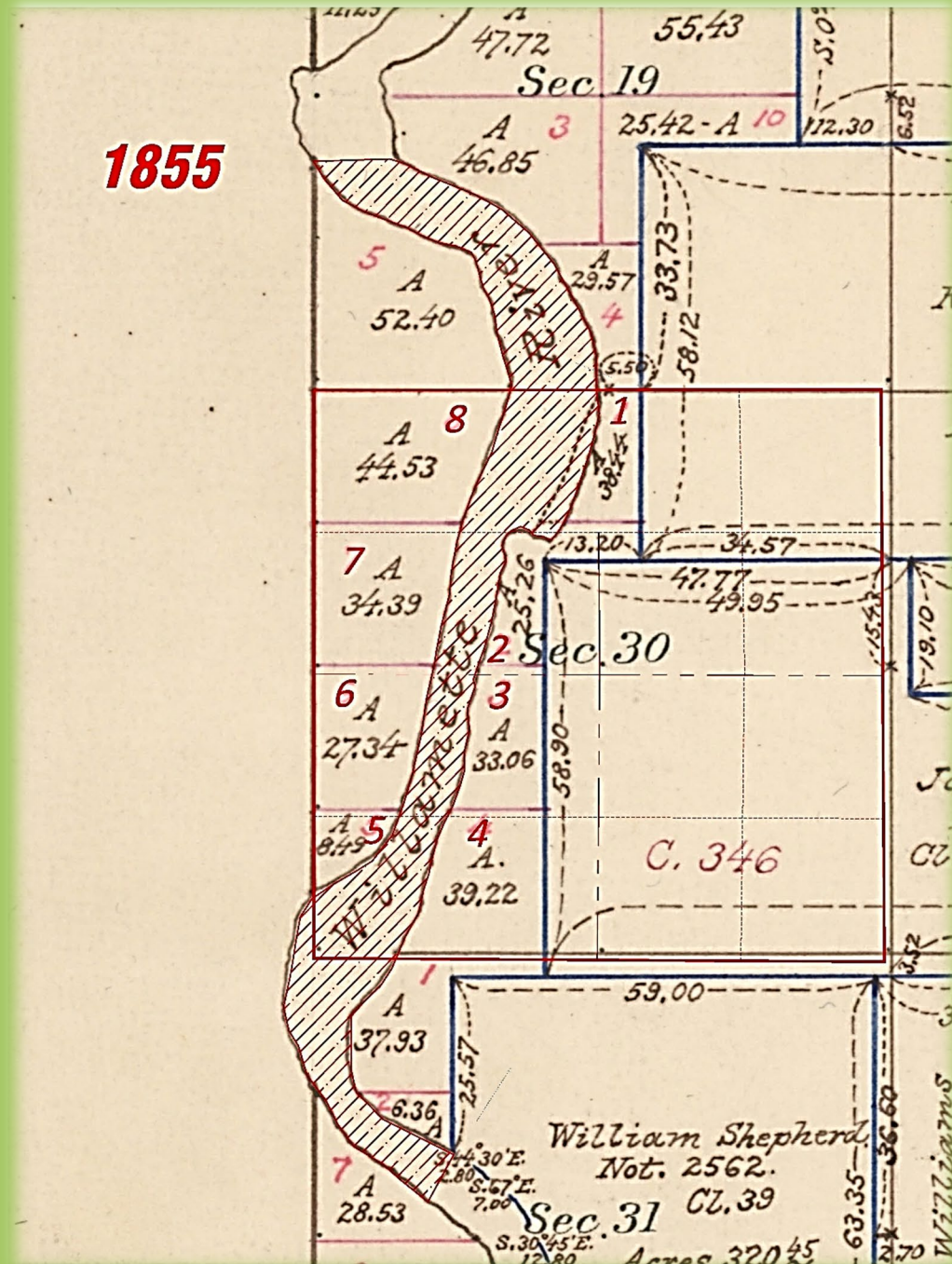


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1855



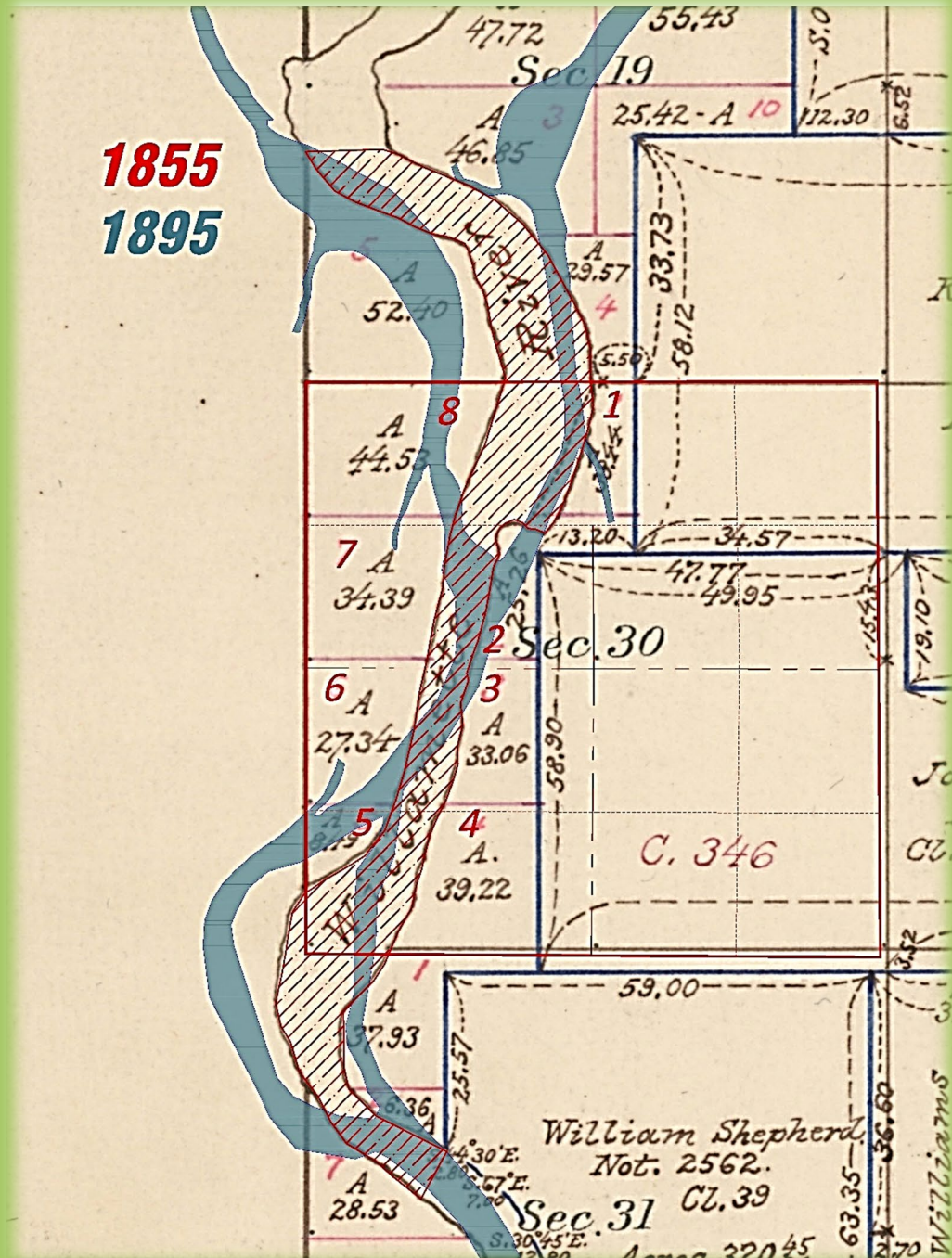
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1895

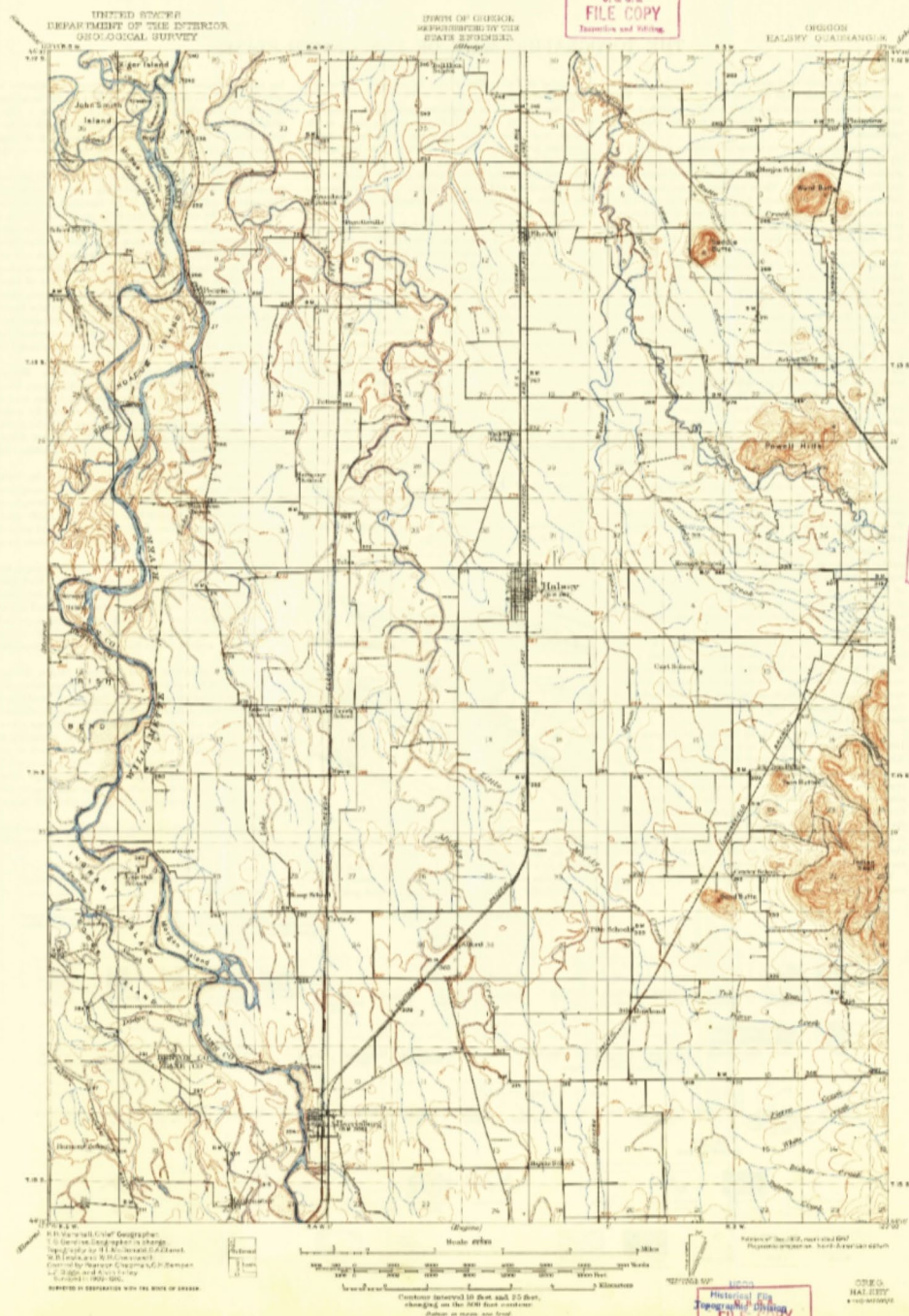


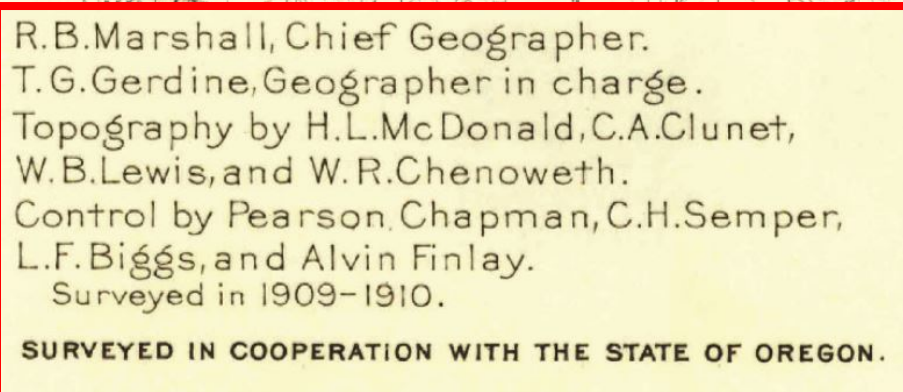
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Oregon Parks and Recreation Department





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HALF CITY
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Oregon Parks and Recreation Department

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U.S.A.
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Executive and Mining

(Corvallis)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

123°15' R.5 W.
44°30'
T.12 S.

25 Kiger Island 30 240 29

R.B.Marshall, Chief Geographer.
T.G.Gerdine, Geographer in charge.
Topography by H.L.McDonald, C.A.Clunet,
W.B.Lewis, and W.R.Chenoweth.
Control by Pearson, Chapman, C.H.Semper,
L.F.Biggs, and Alvin Finlay.
Surveyed in 1909-1910.

SURVEYED IN COOPERATION WITH THE STATE OF OREGON.

U.S.A.
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Scale 1:50,000

Horizontal distance in feet and 20 feet
changing on the 200 foot contour
shown on map and level

Historical File
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OREGON
HALSEY QUADRANGLE
123°00' 44°30' T.12 S.

(Corvallis)
123°15' R.5 W.
44°30' T.12 S.
Kiger Island

OREGON
HALSEY QUADRANGLE
123°00' 44°30' T.12 S.
(Lebanon)

U.S.G.A.
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Examination and Rating

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Historical City
Topographical Division
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Examination and Rating

HISTORICAL

DEC 29 1947

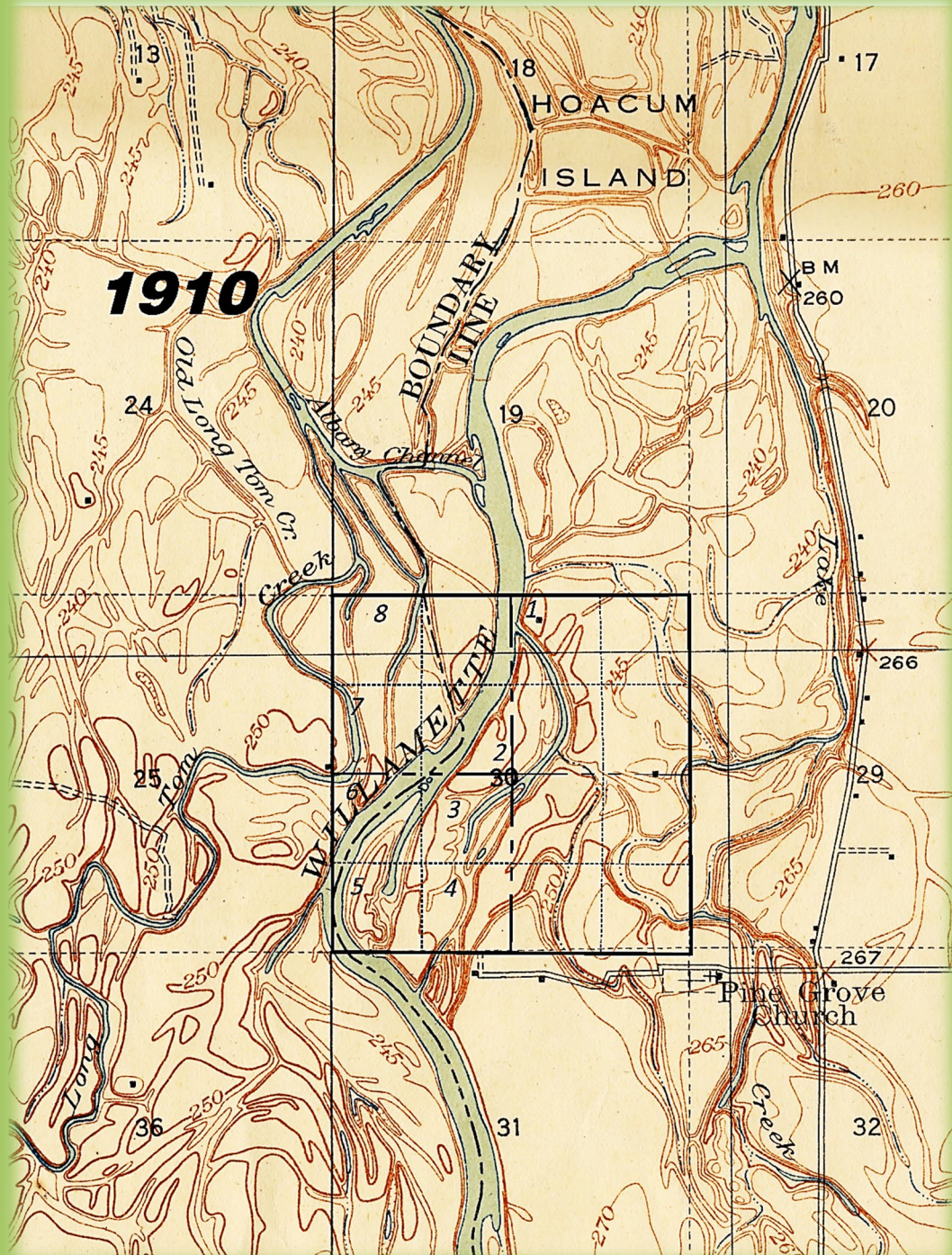


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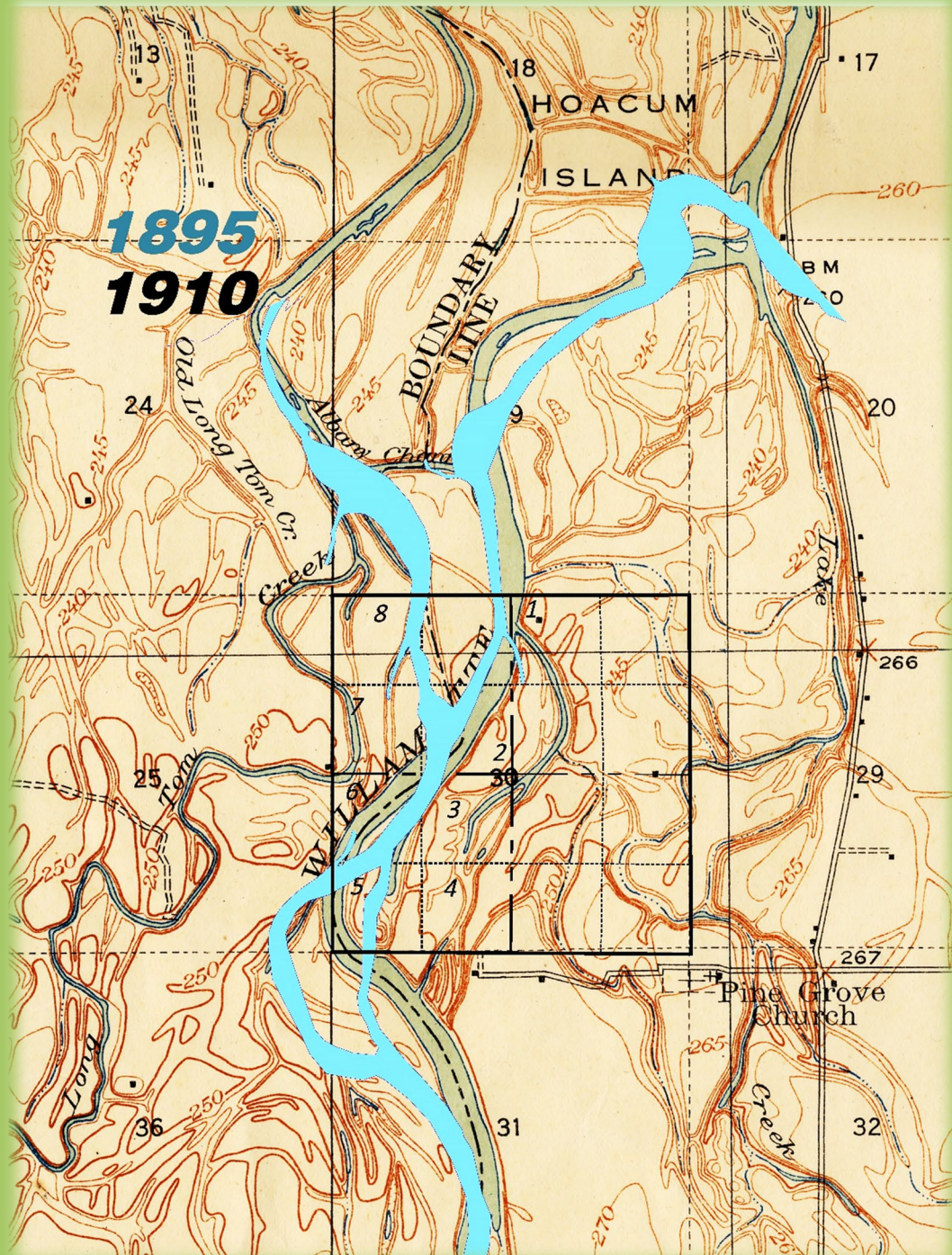


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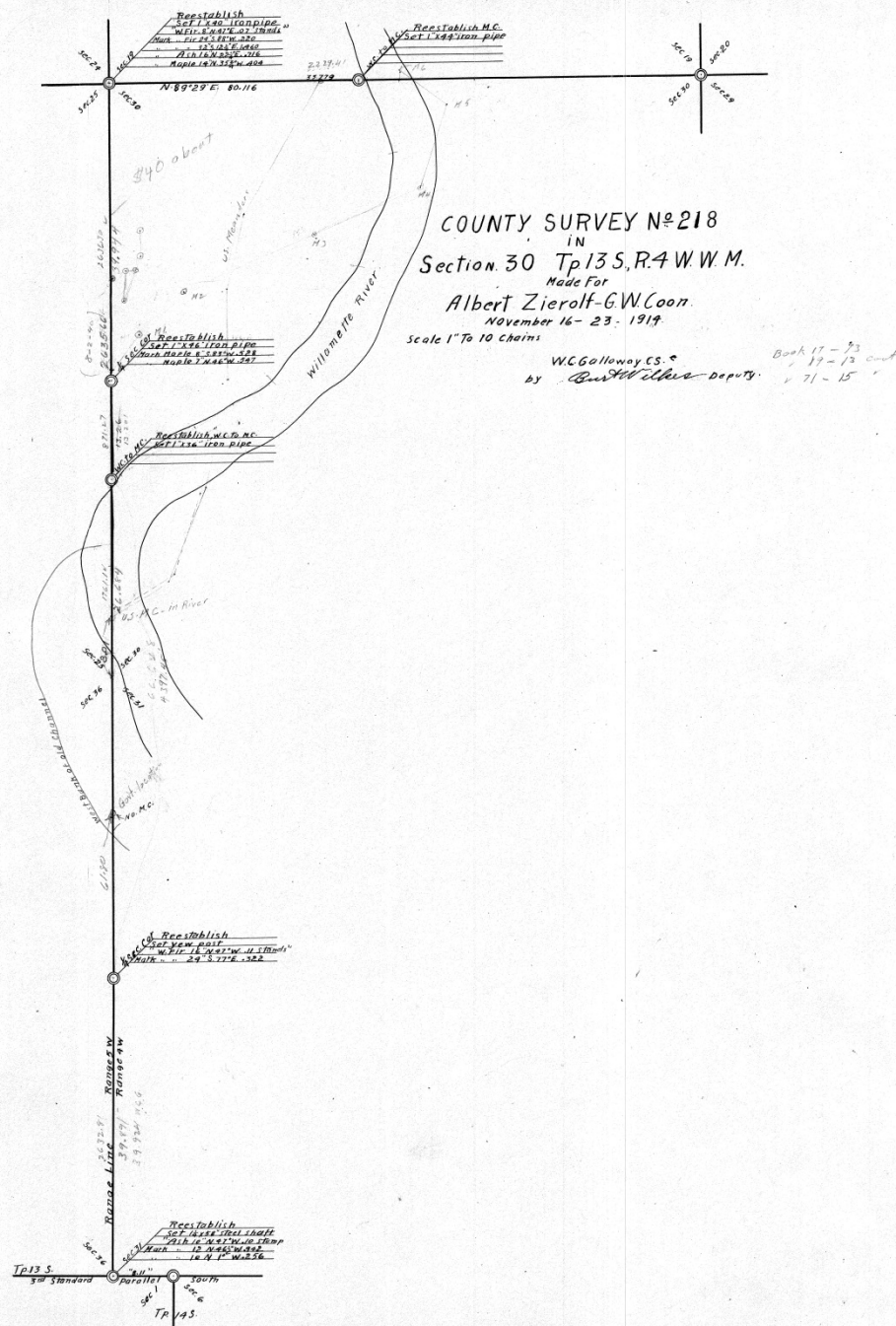




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CS 218

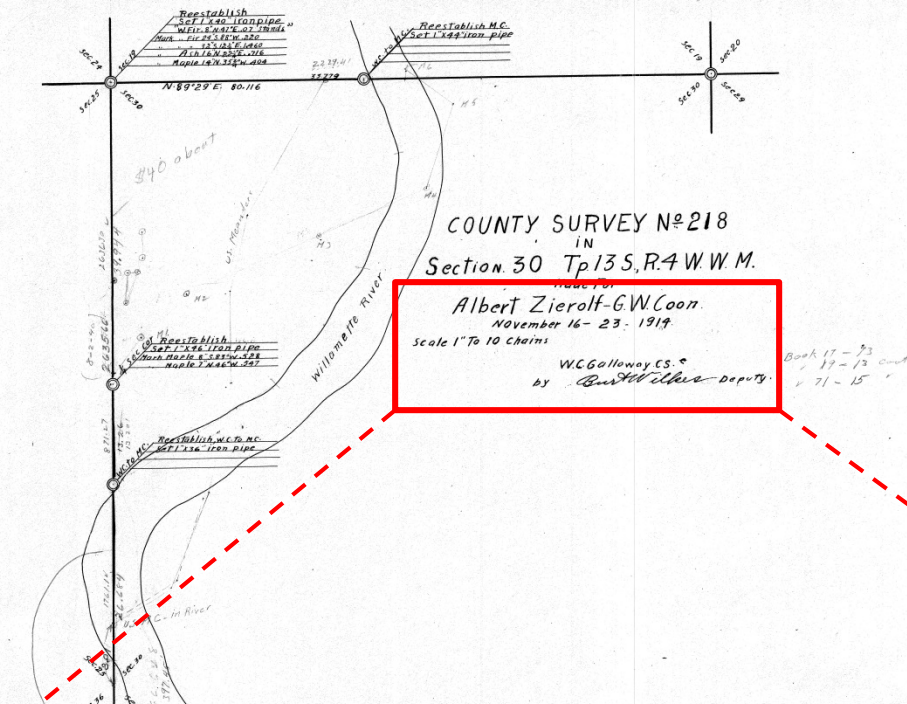




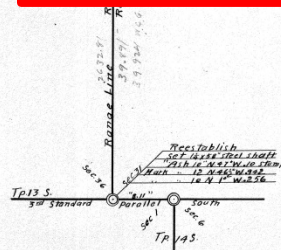
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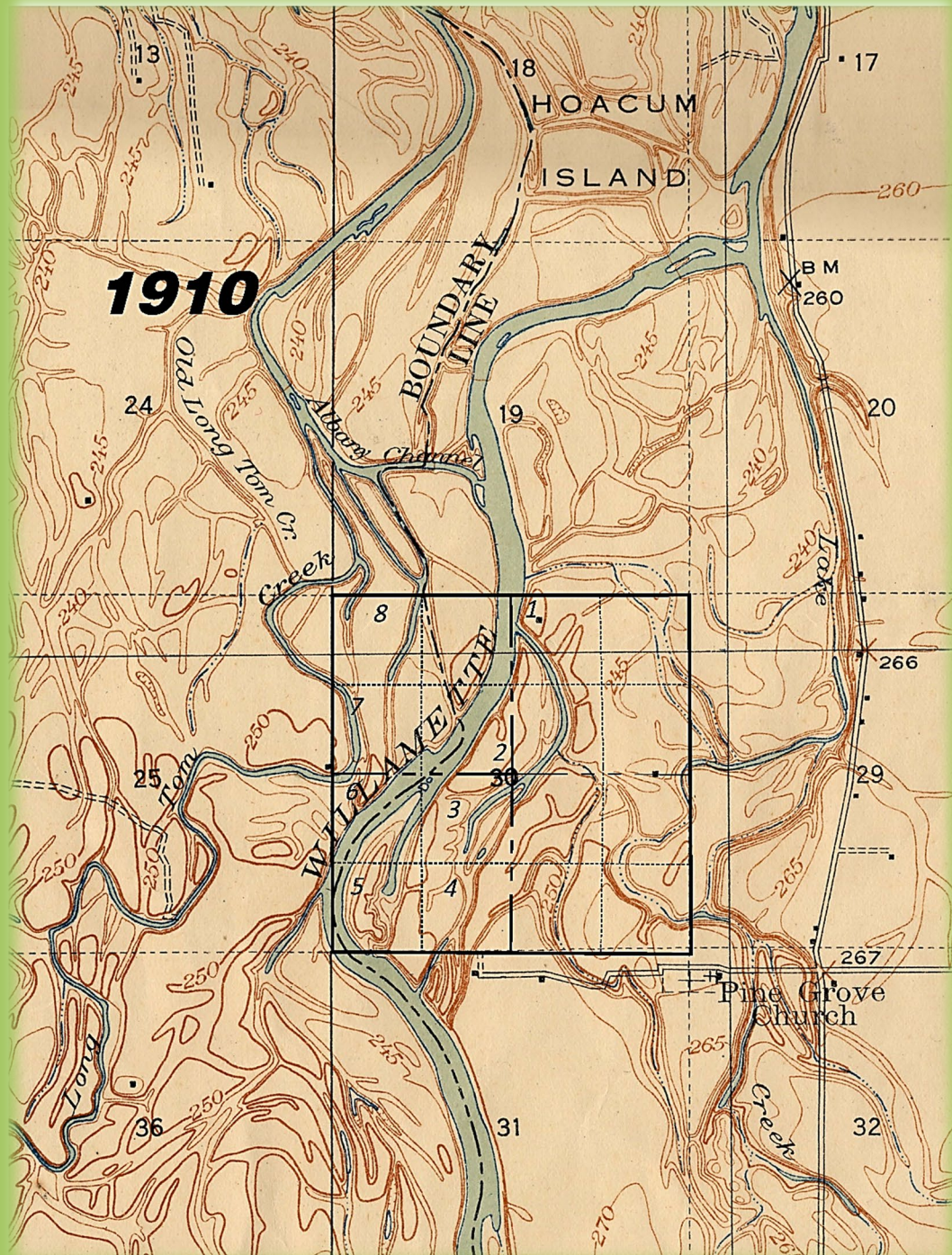


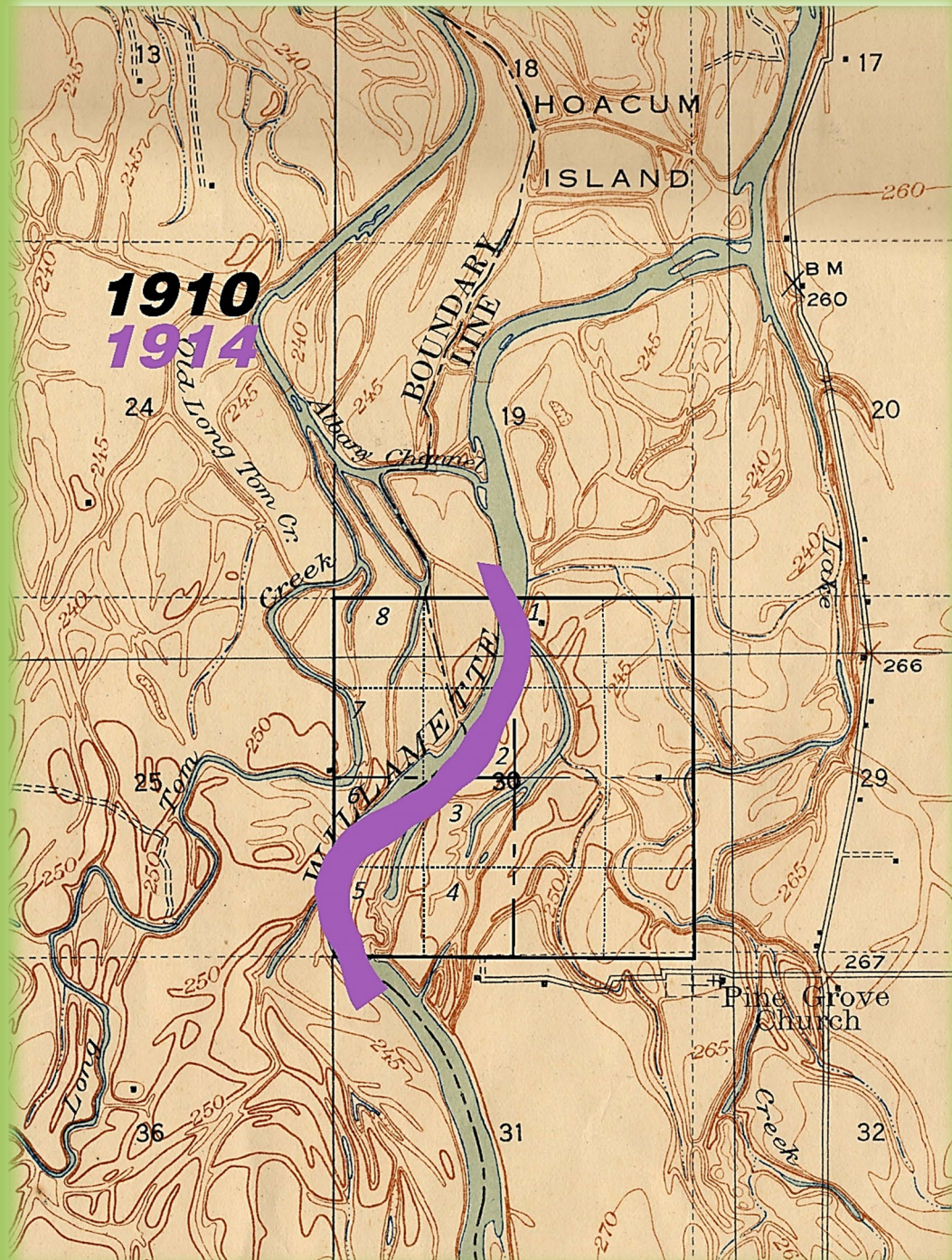
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Albert Zierolf-G.W. Coon.
November 16- 23 - 1914.
Scale 1" To 10 chains
W.C. Galloway C.S. &
by Burt Wilkes Deputy.



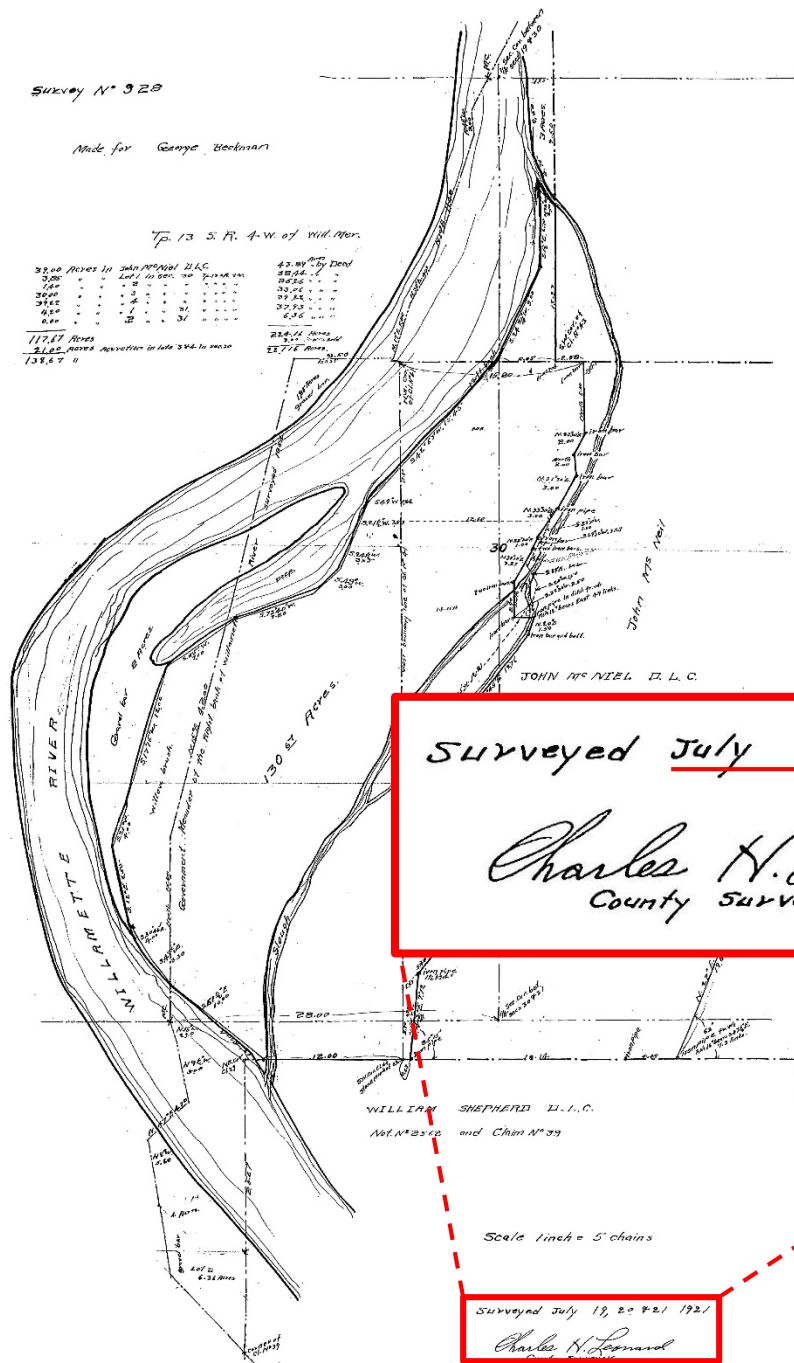


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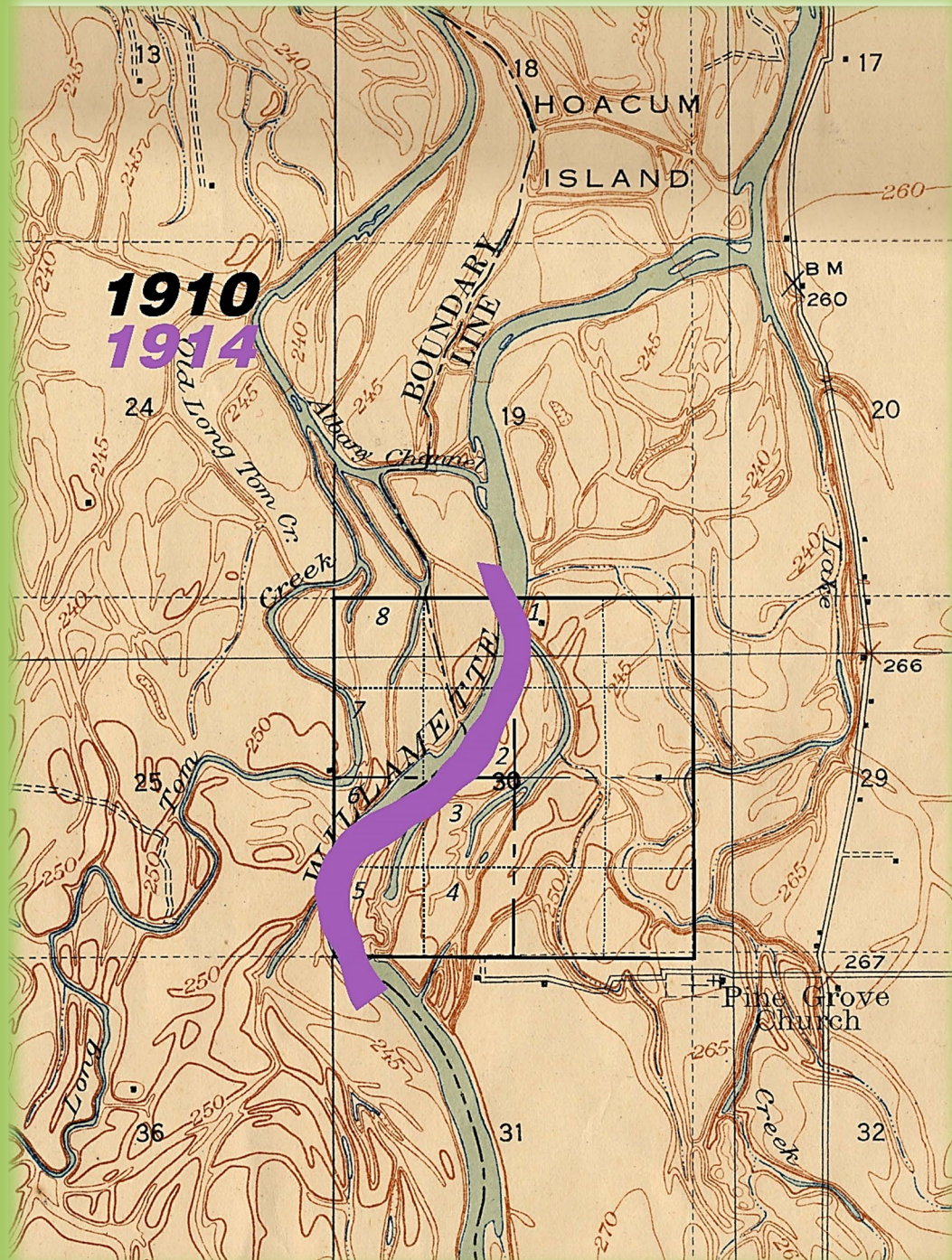






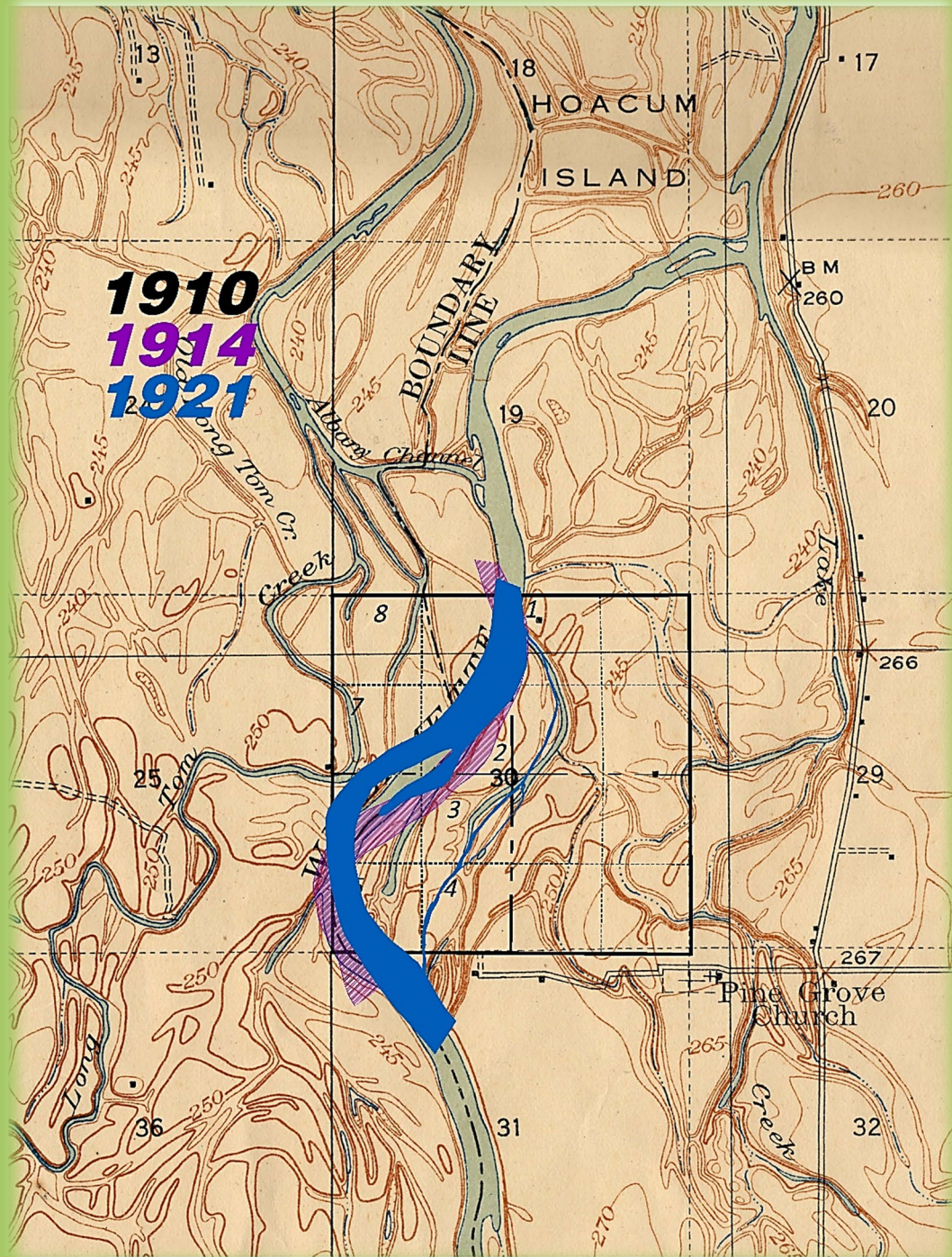


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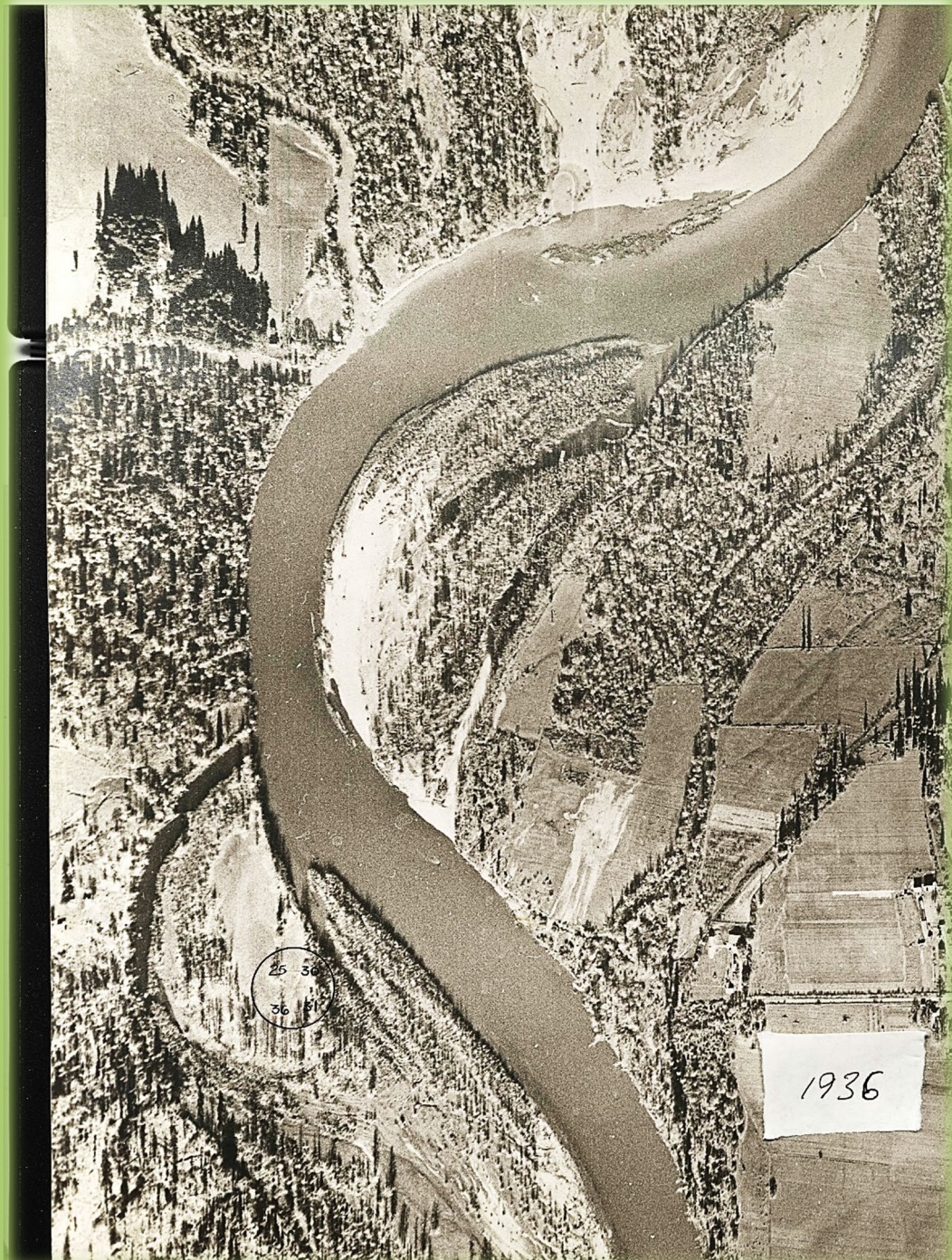
Aerial Photography



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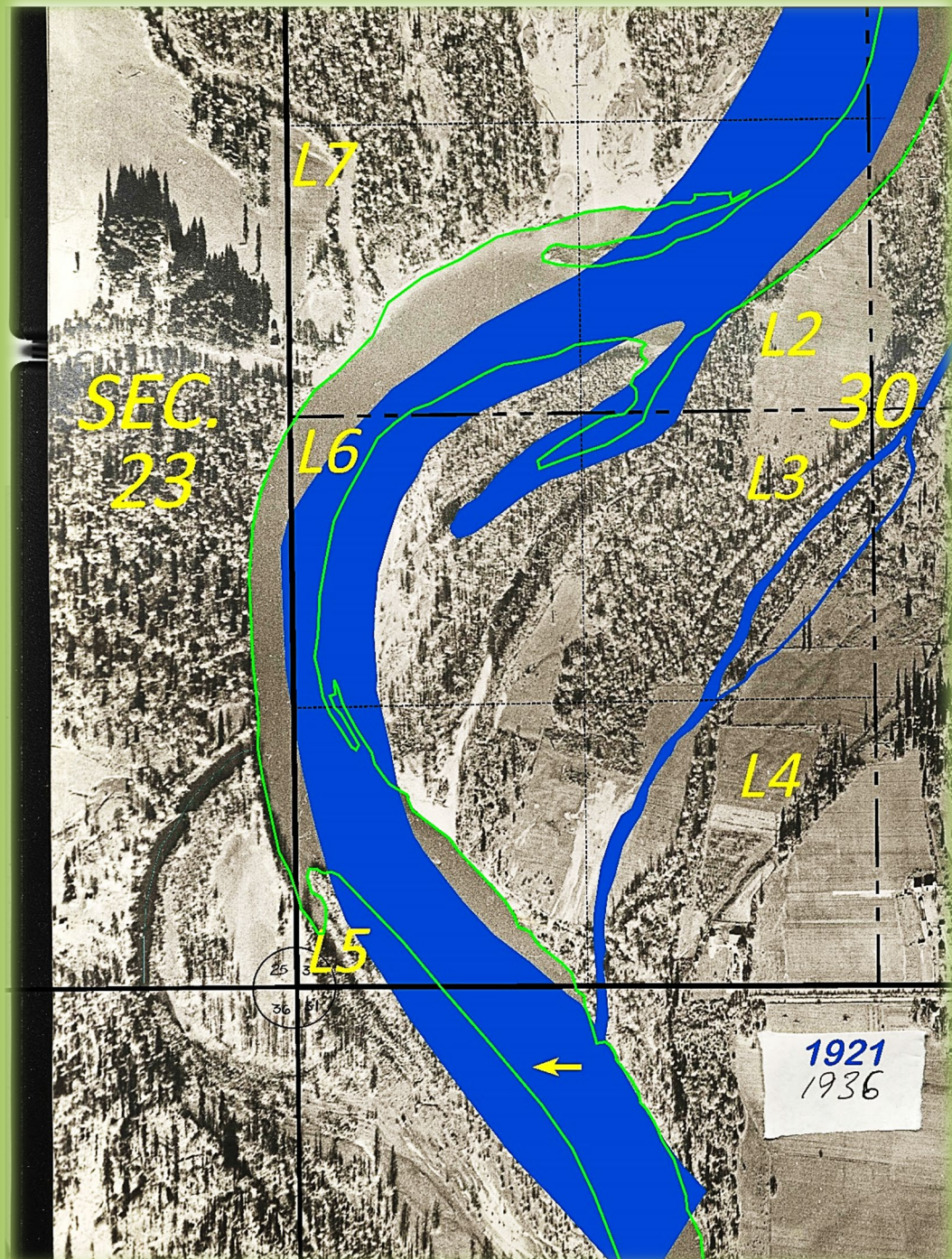


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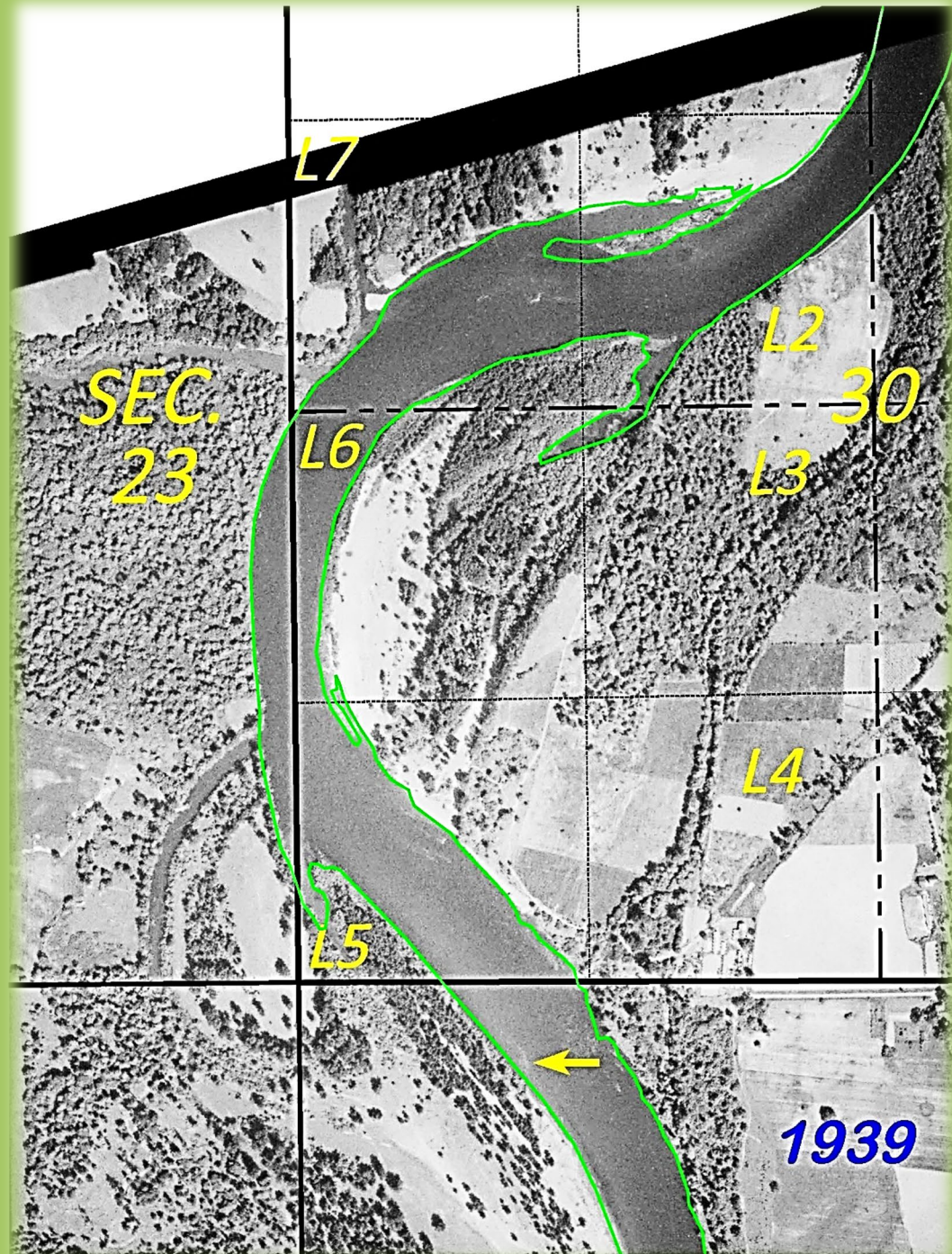
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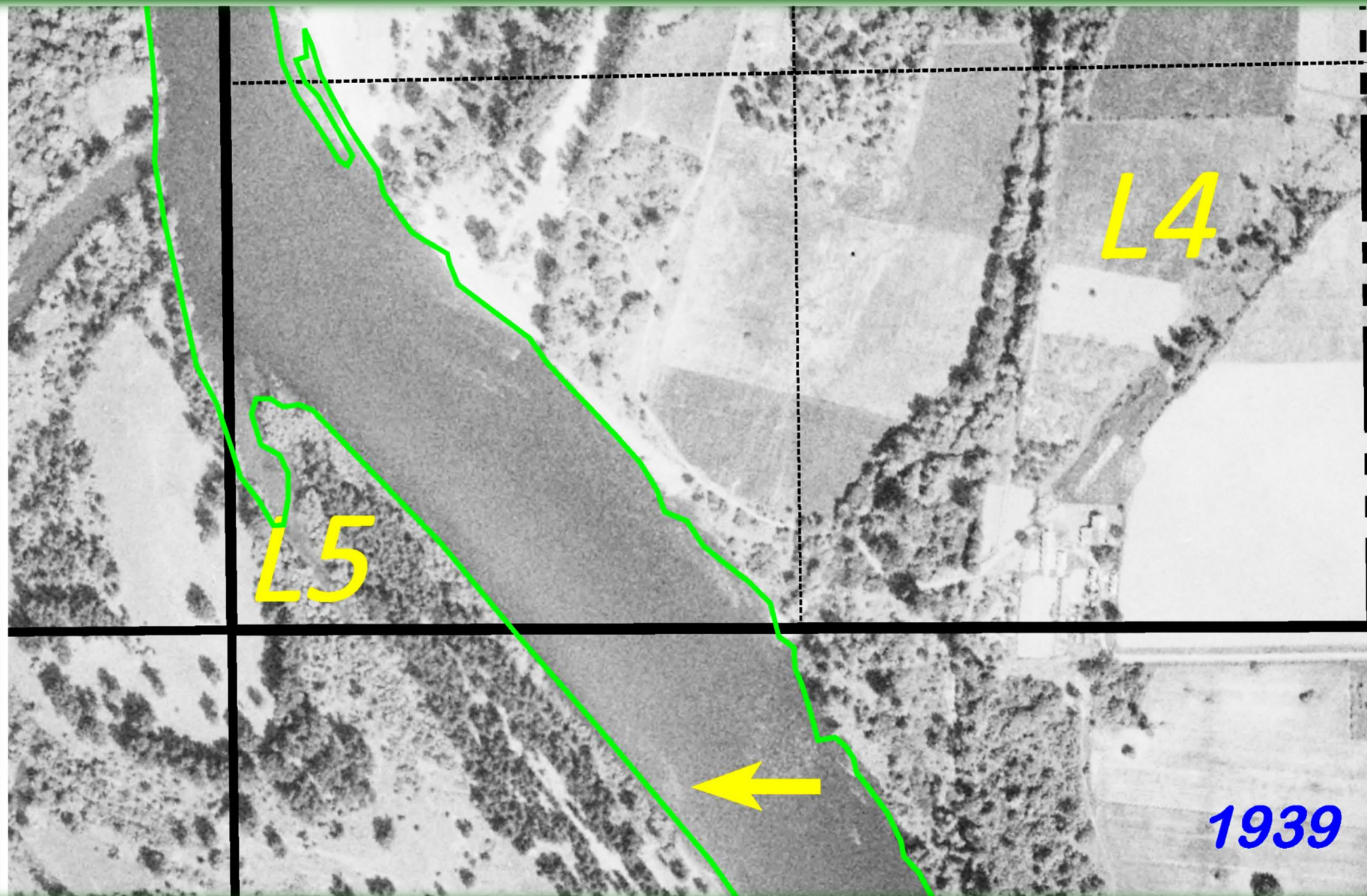


1939



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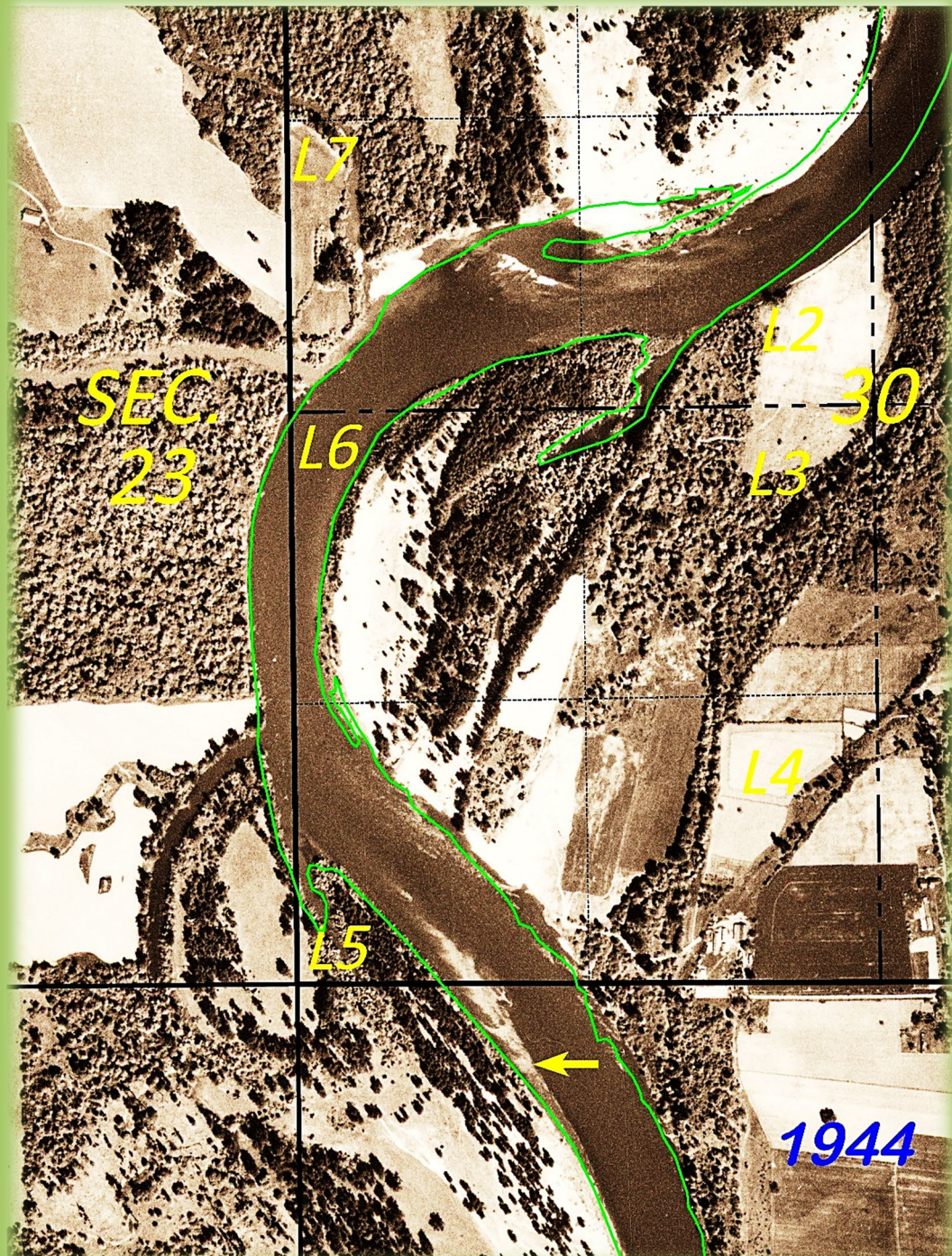


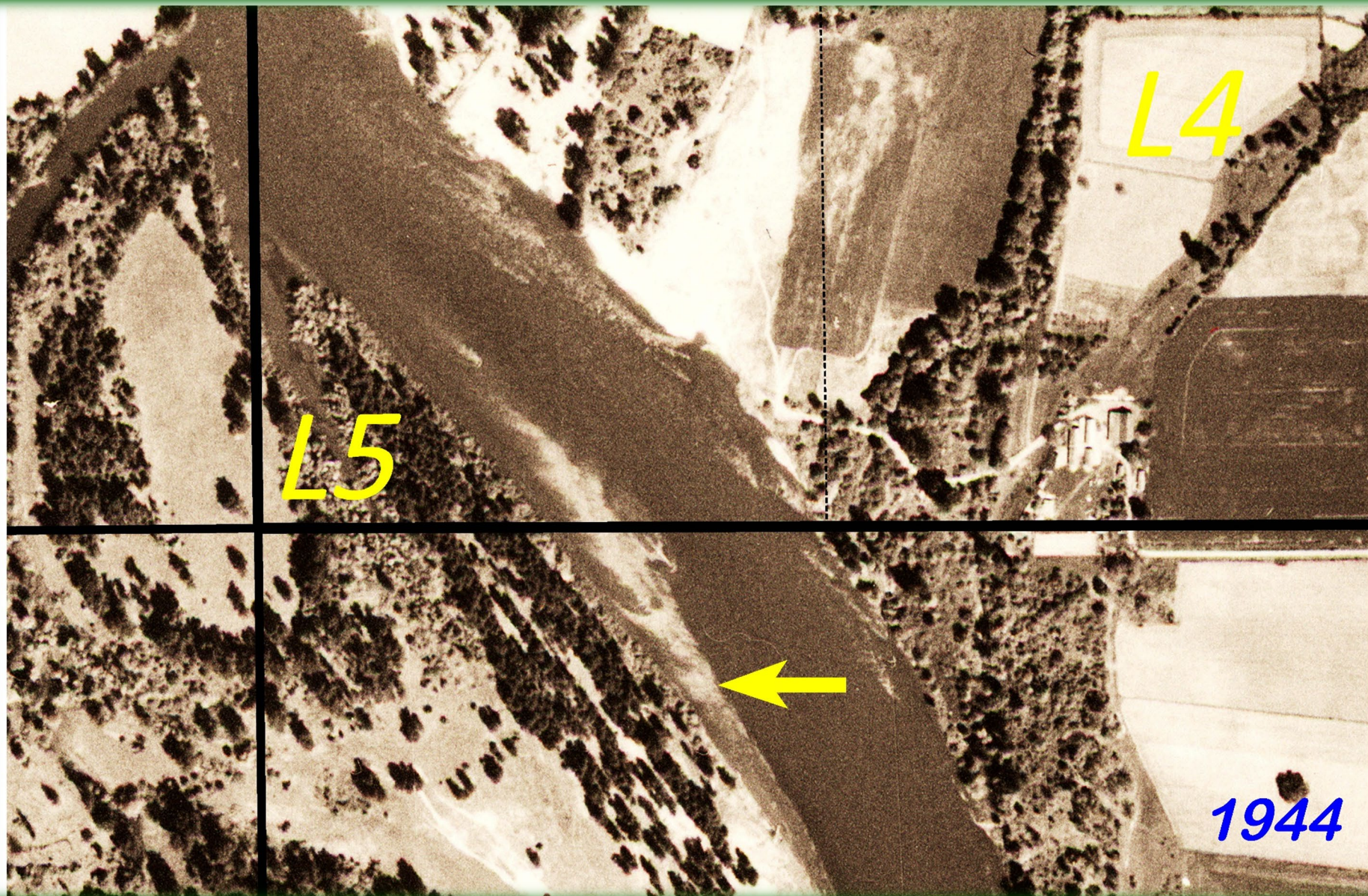
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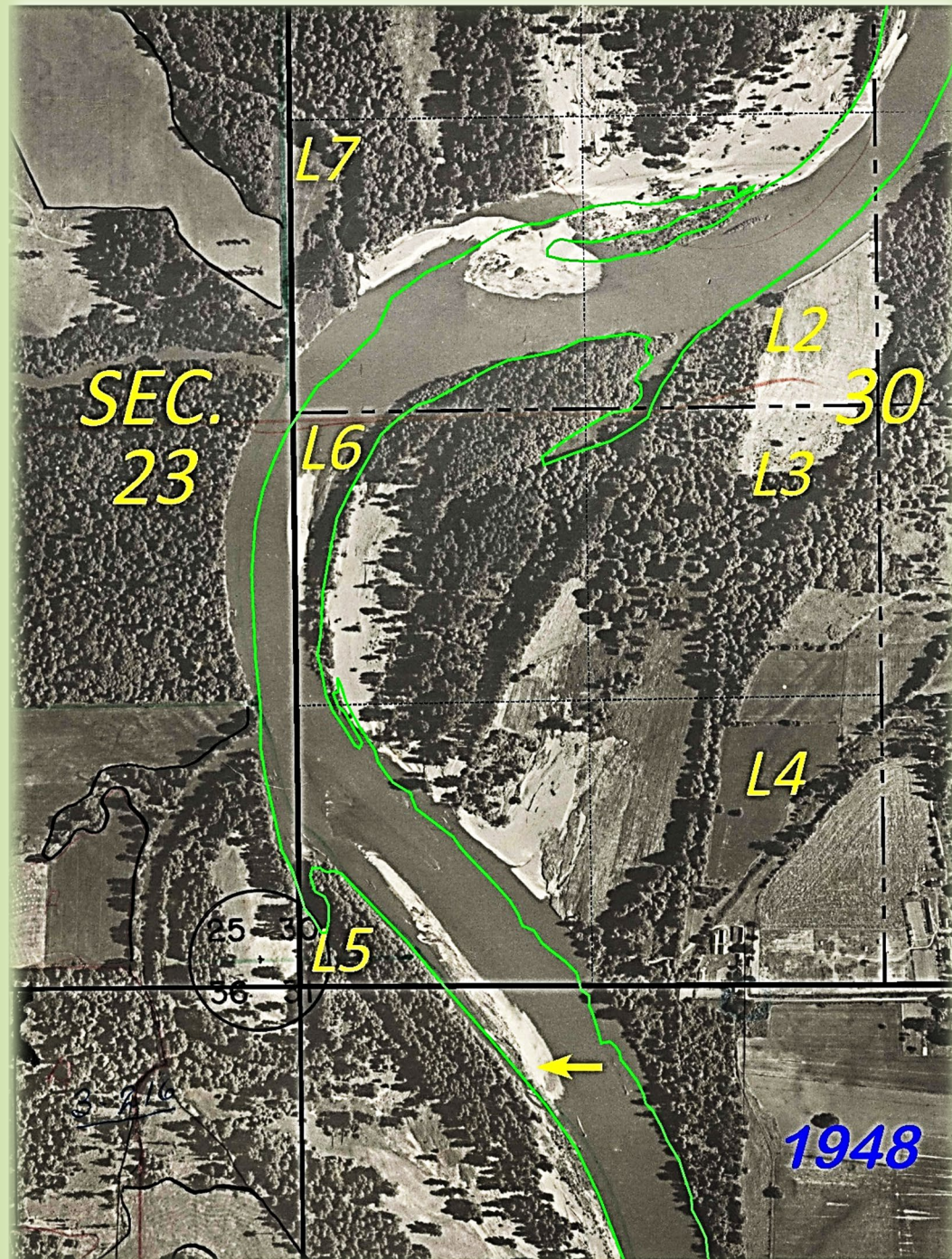


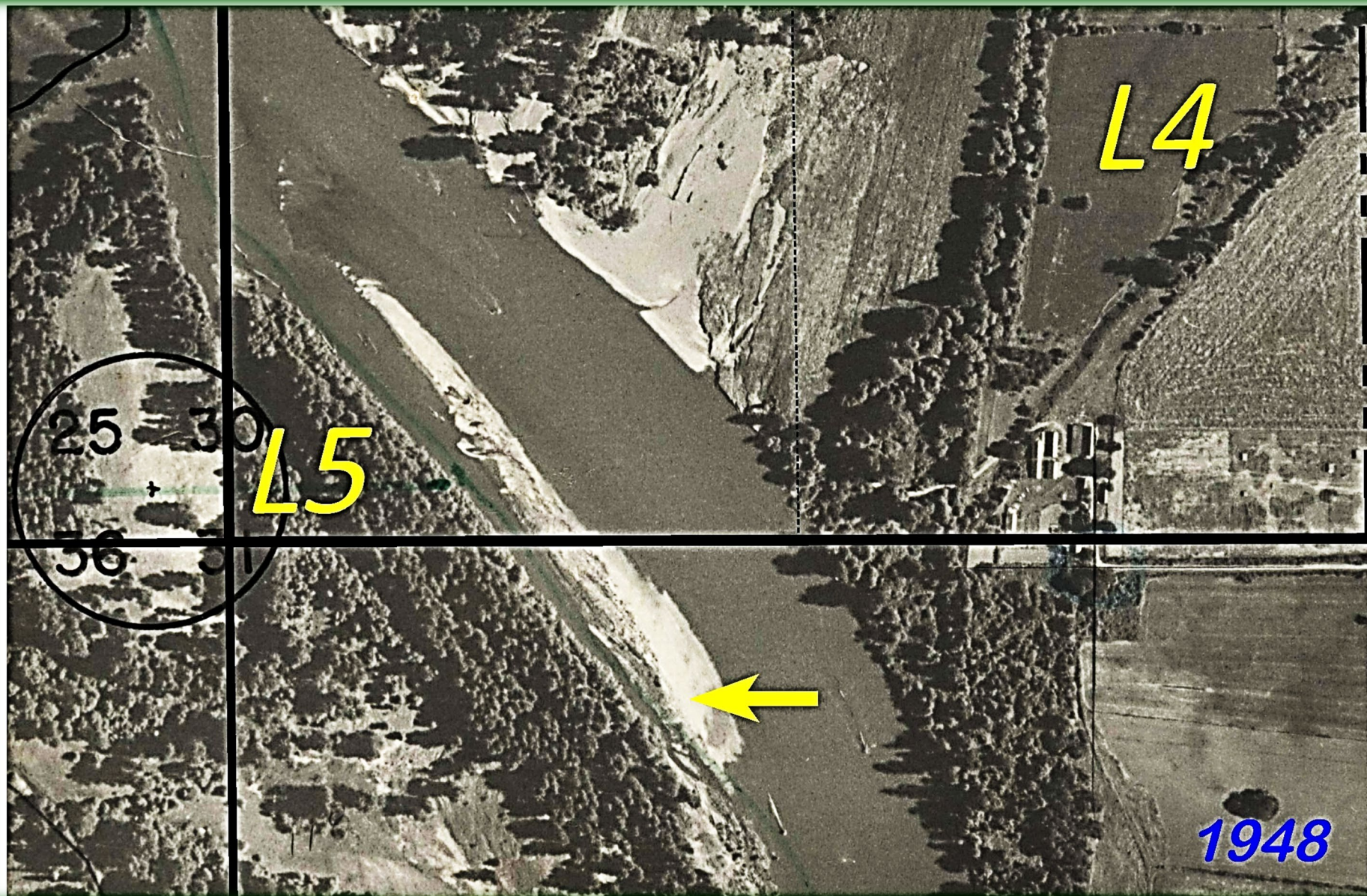
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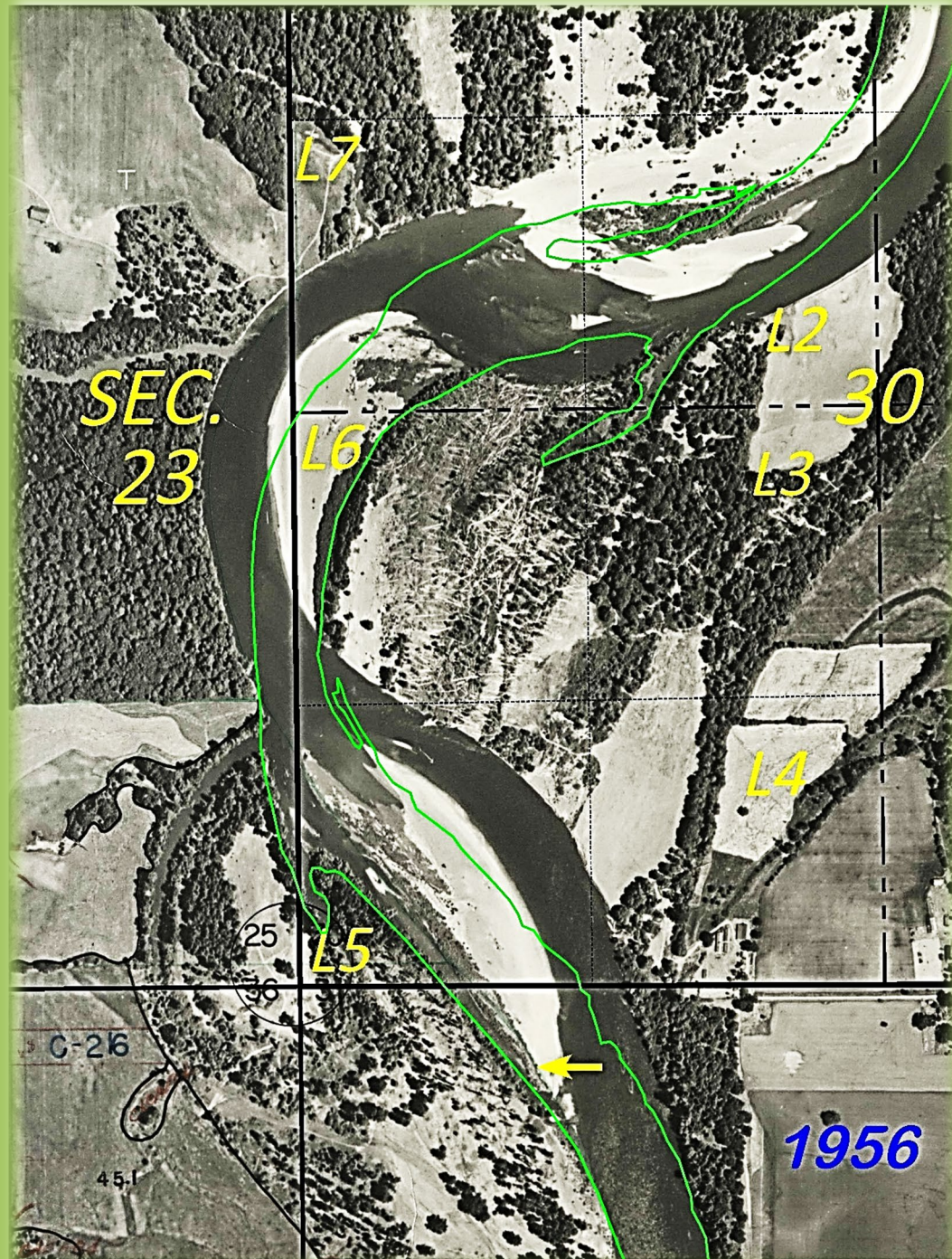


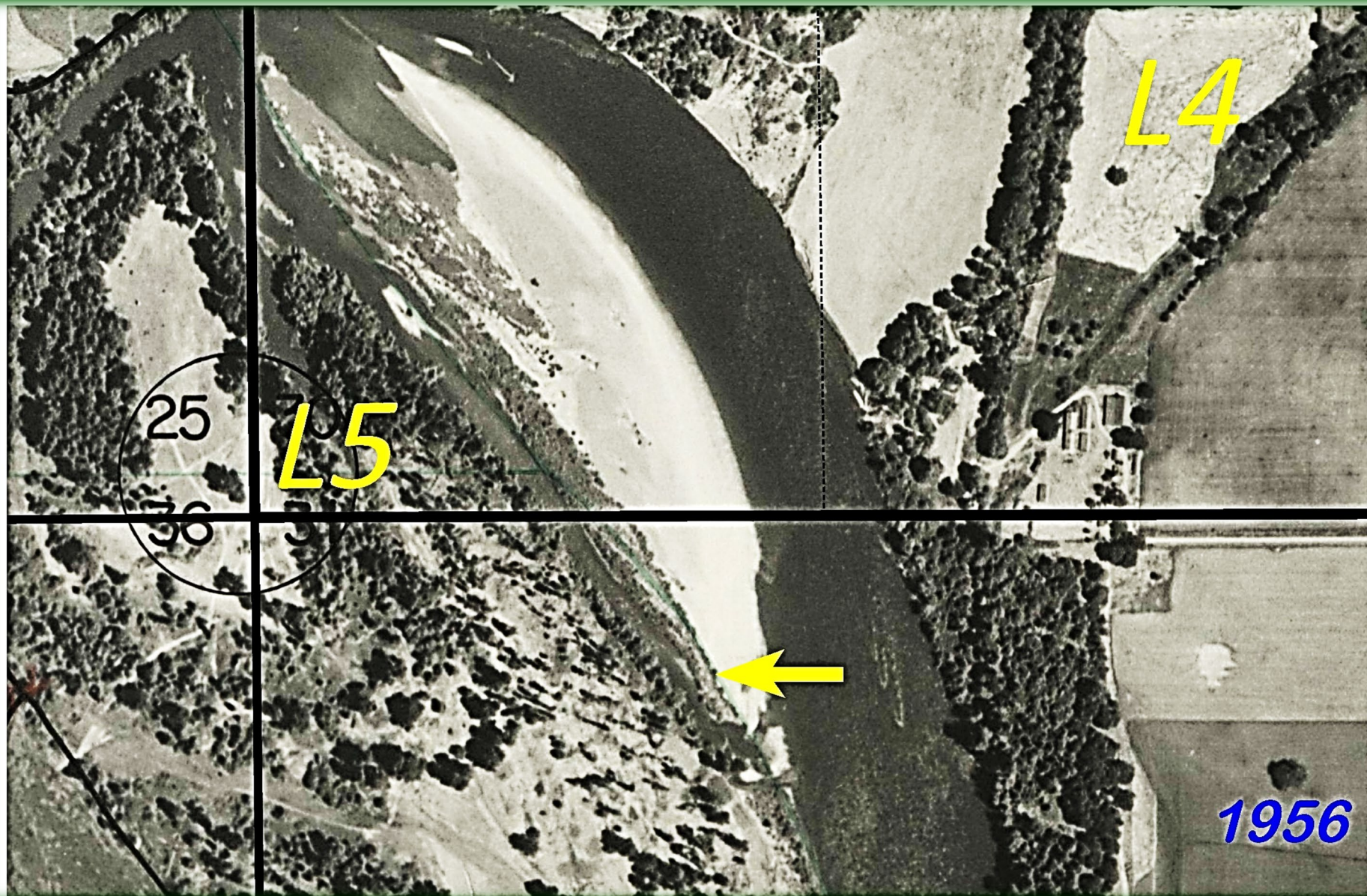
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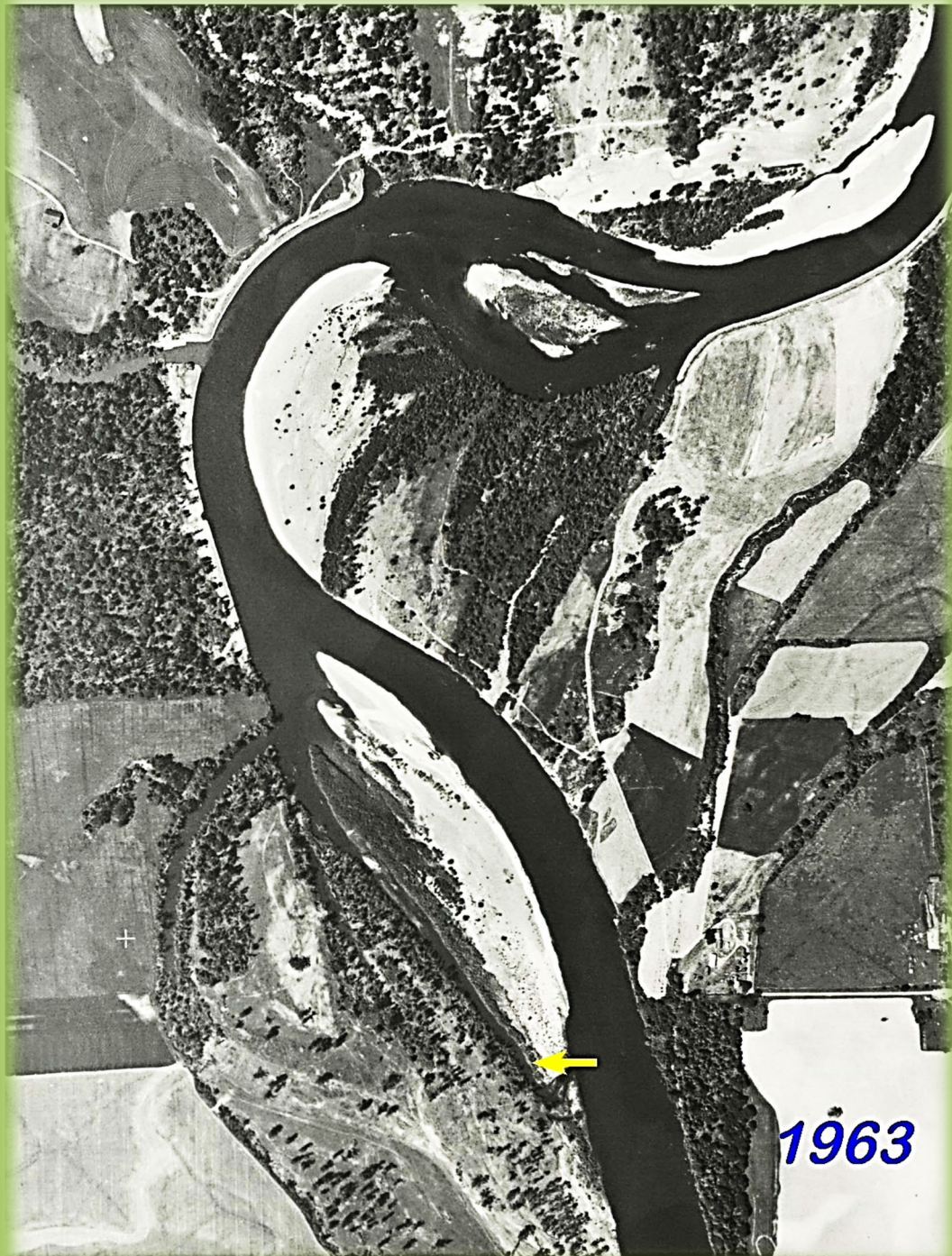
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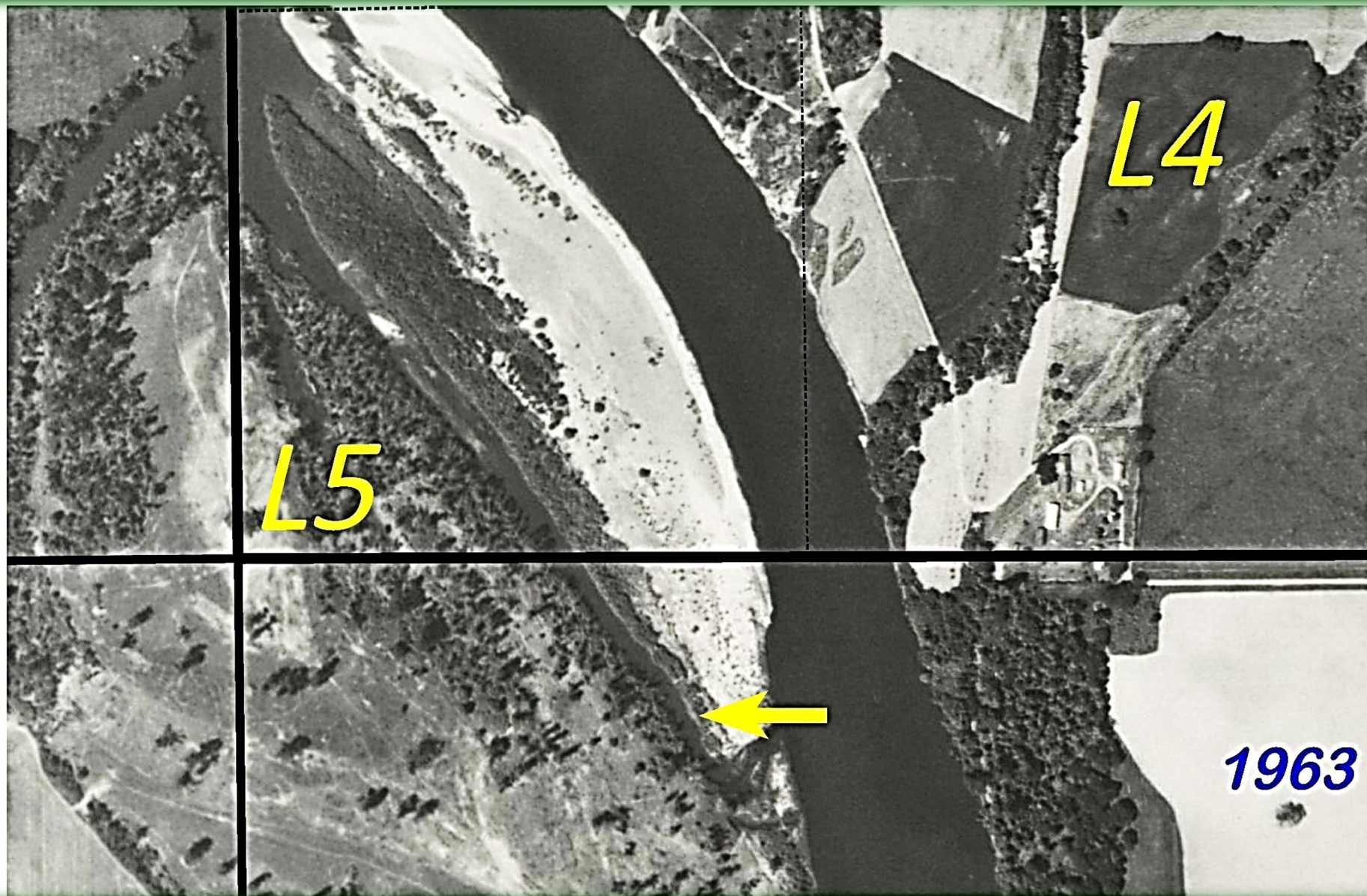
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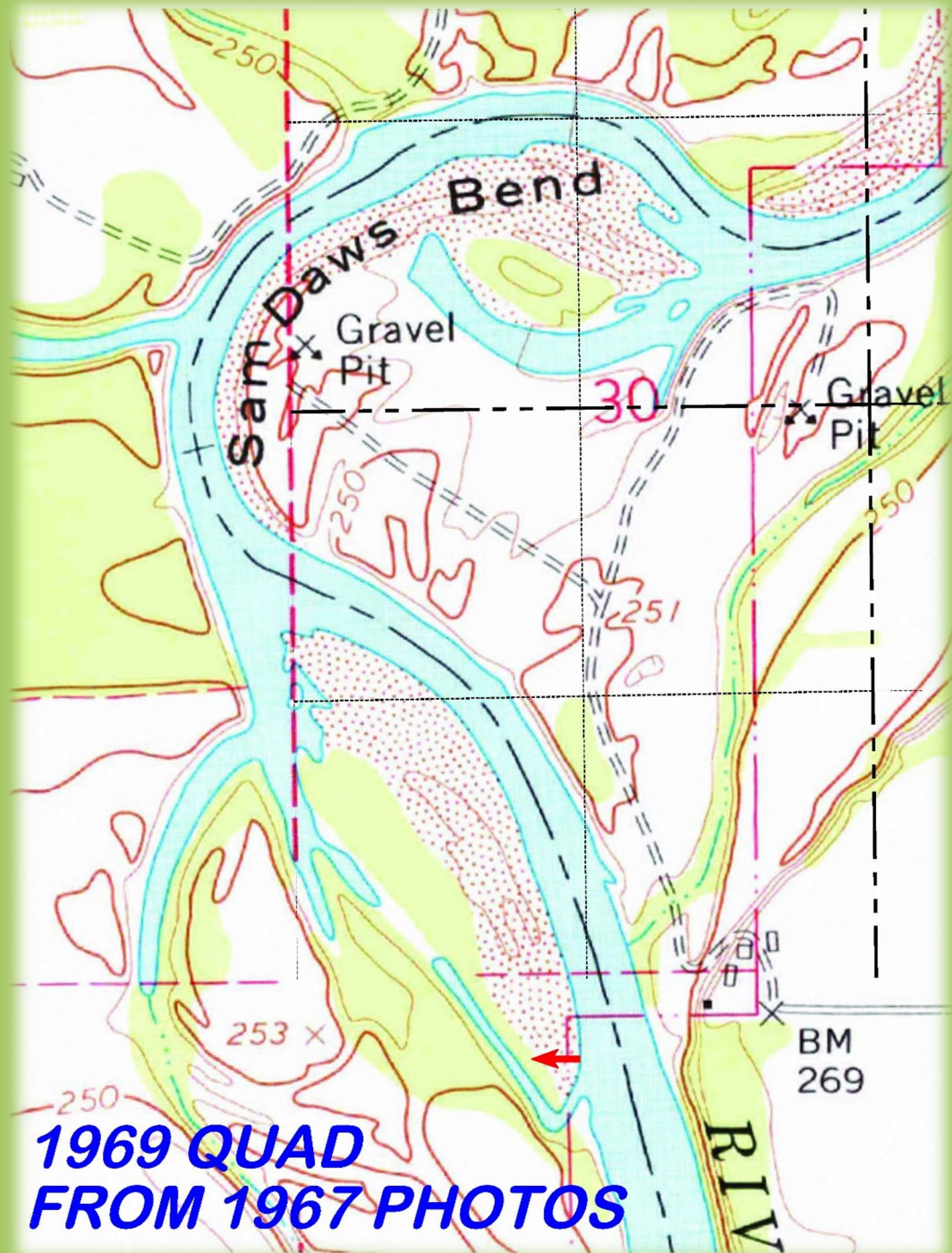
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**1969 QUAD
FROM 1967 PHOTOS**

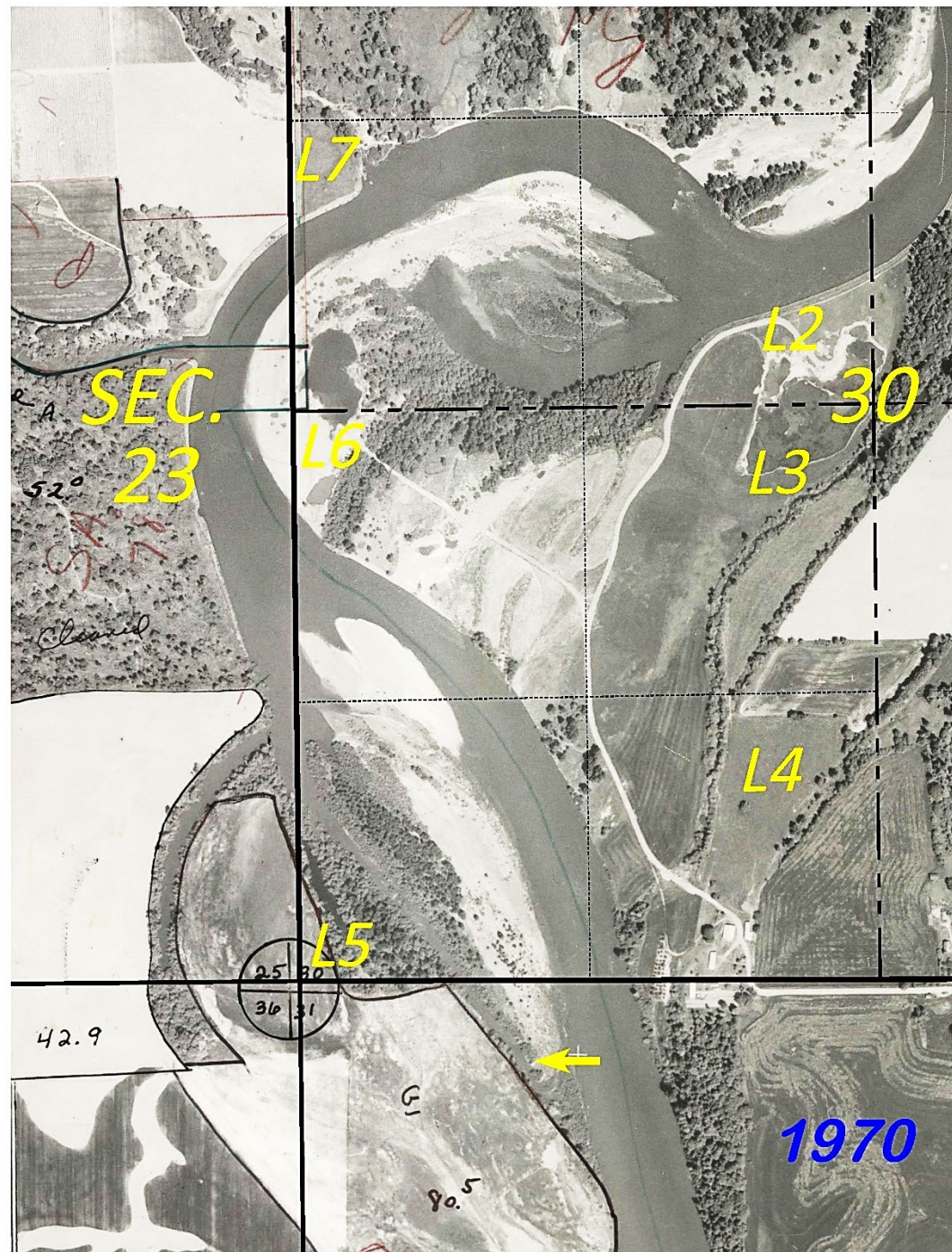


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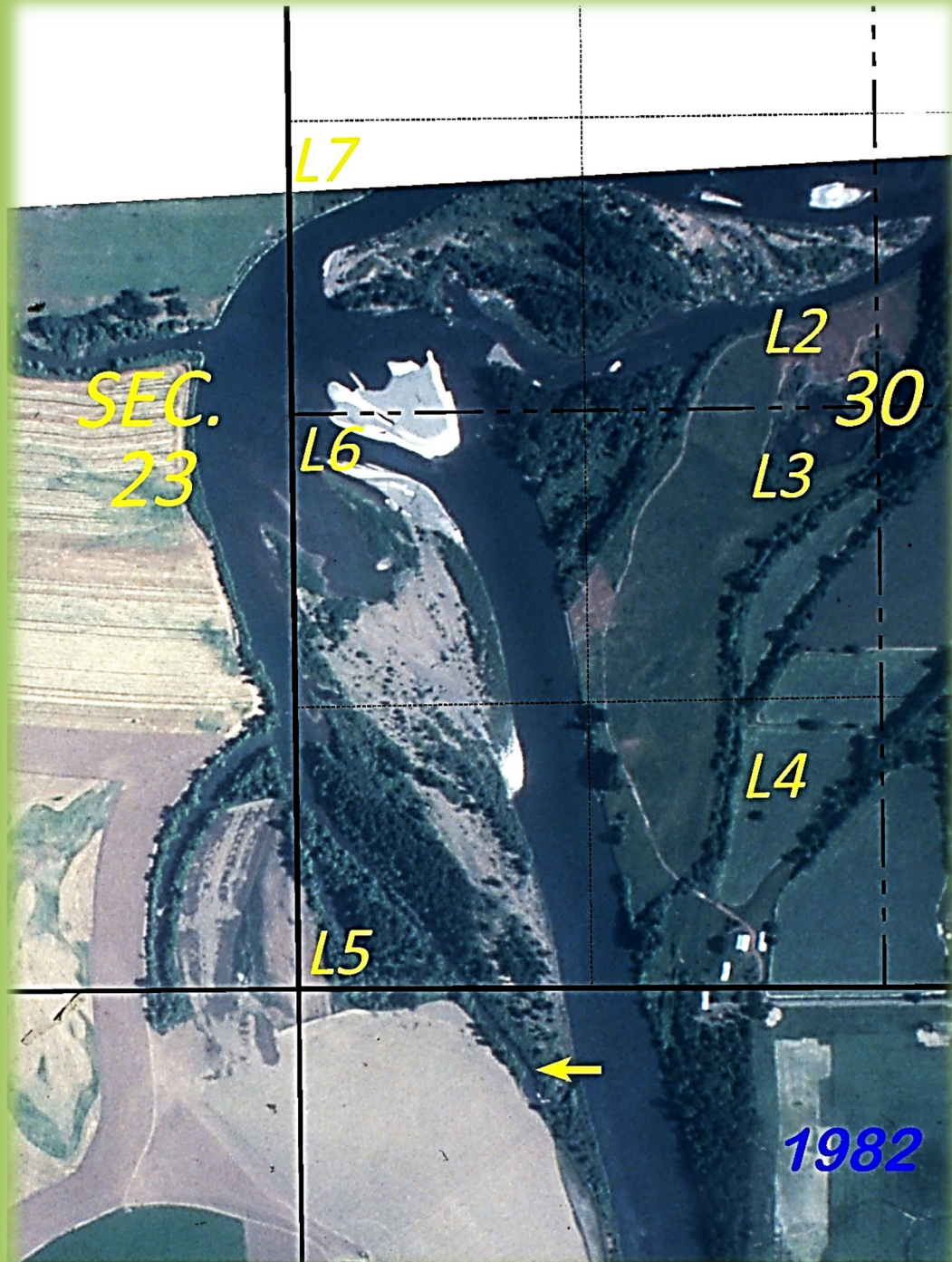


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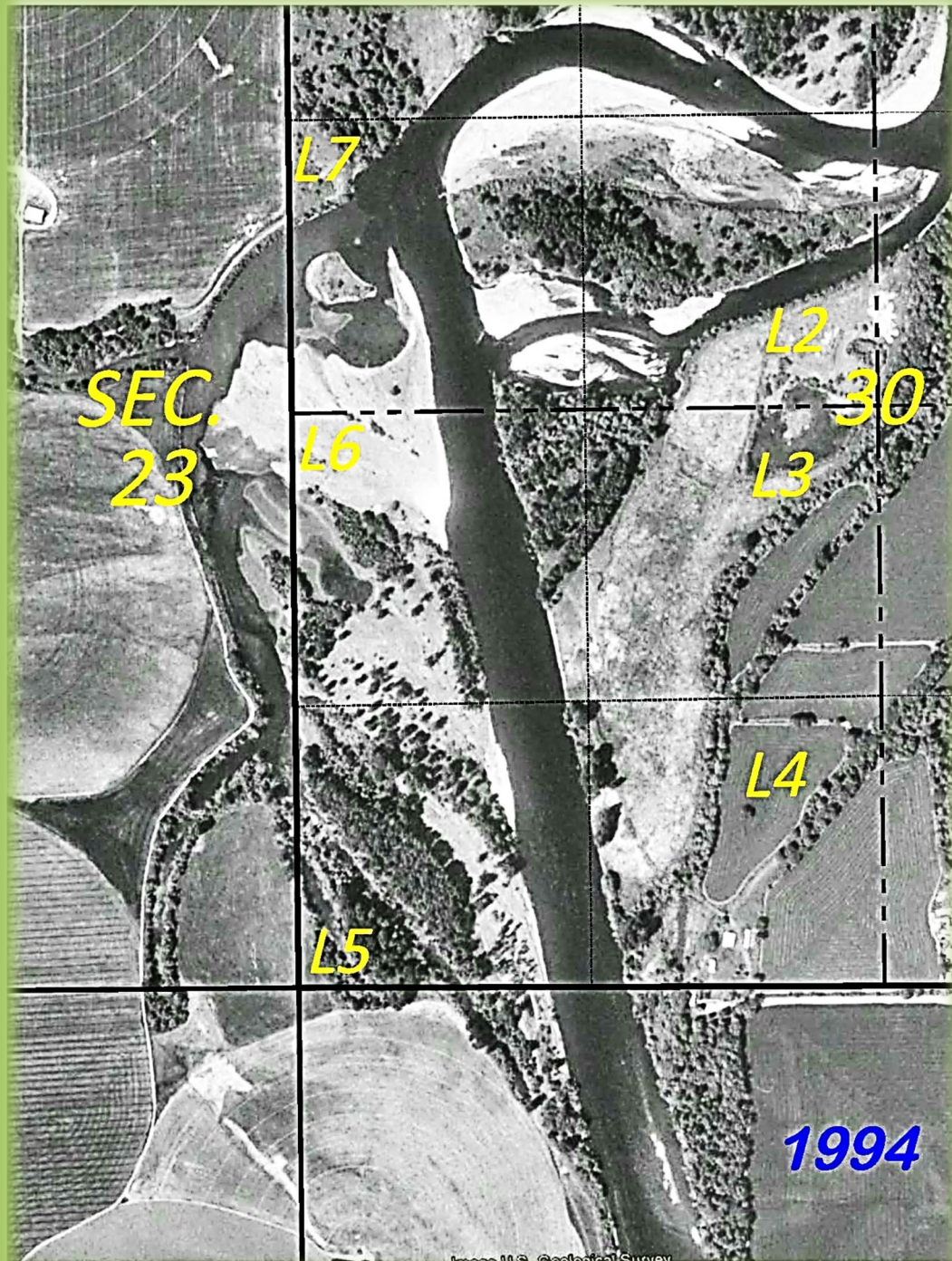


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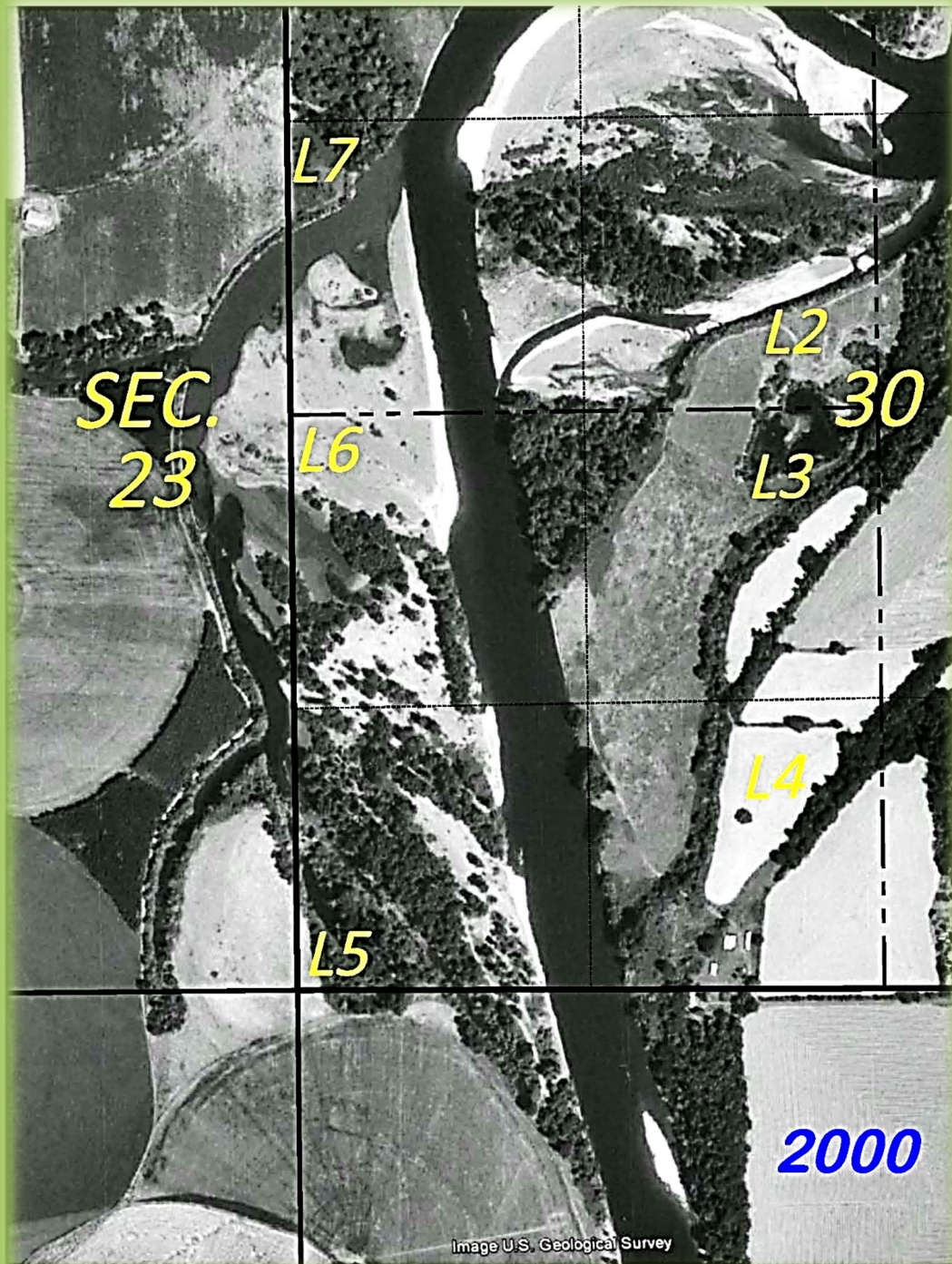


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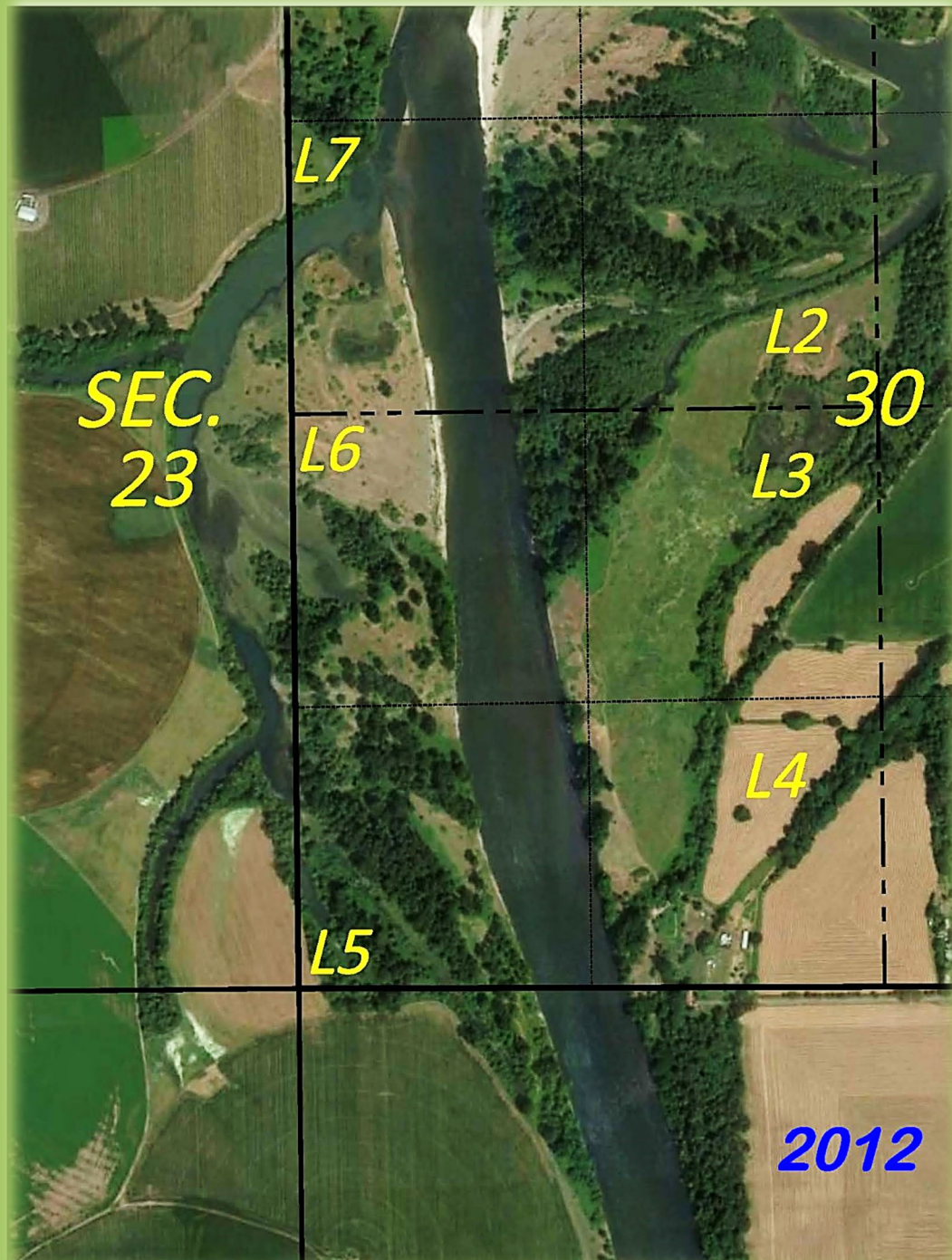


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Oregon Department of State Lands



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INFORMATION SOURCES

UNITED STATES ARMY CORPS OF ENGINEERS

1874 General River Survey (Portland to Eugene)
 1895 General River Survey (Portland to Eugene)
 1932 General River Survey (Portland to Eugene)
 1936 Photo Mosaic (Portland to Eugene)
 1971 Low Water Profile
 Miscellaneous Maps, Charts, and Aerial Photos

UNITED STATES WEATHER SERVICE

UNITED STATES GEOLOGICAL SURVEY

BUREAU of LAND MANAGEMENT

1850-1853 General River Survey (Portland to Eugene)

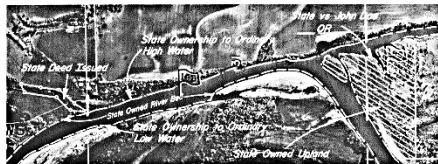
COUNTIES

BENTON	MARION
CLACKAMAS	MULTNOMAH
LANE	POLK
LINN	YAMHILL

DIVISION of STATE LANDS

State Deeds, Plots, and Records

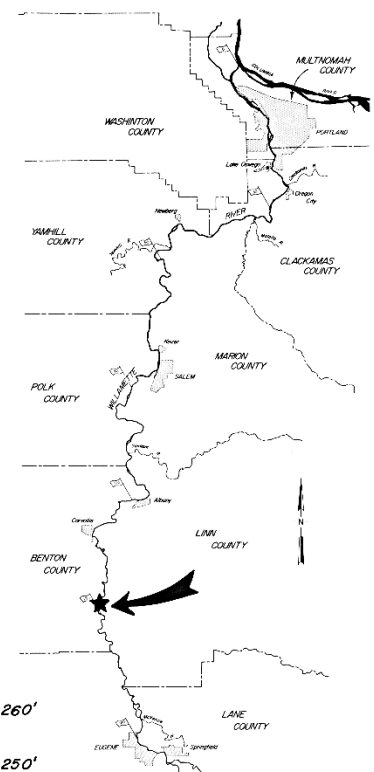
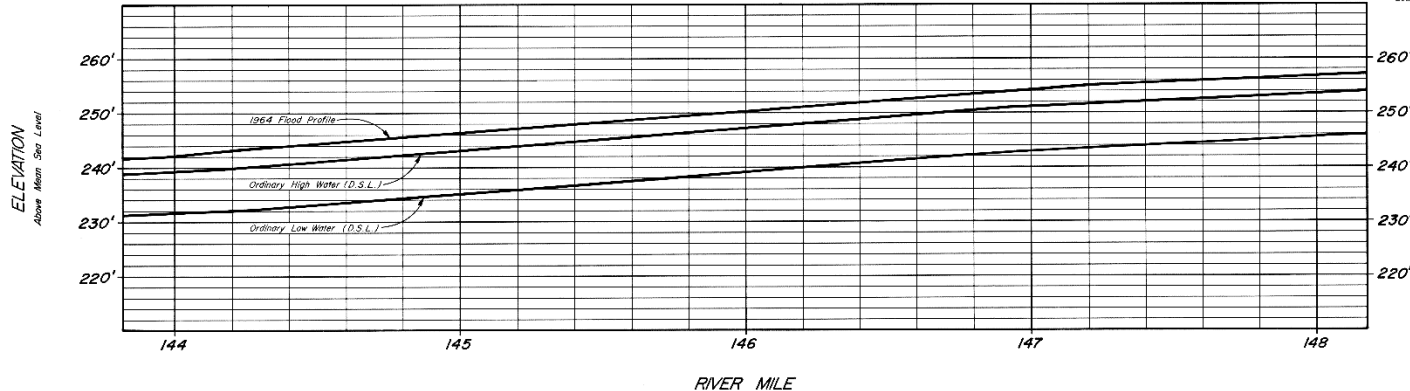
LEGEND



USCE Aerial Photography May 2, 1972

State ownership of the riverbed extends to either Ordinary Low Water or Ordinary High Water and is symbolized on the photograph by two types of lines. These lines do not necessarily trace the actual location of the low or high water boundary.

SCALE IN FEET
 1000 0 1000 2000 3000



WILLAMETTE RIVER
PUBLIC LANDS
 Under Jurisdiction of
OREGON STATE LAND BOARD
 PREPARED BY
 Division of STATE LANDS
 William S. Cox, Director
 Stanley F. Hamilton, P.E., Staff Engineer
 July 1975 Sheet 47 of 57

INFORMATION SOURCES

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UNITED STATES GEOLOGICAL SURVEY

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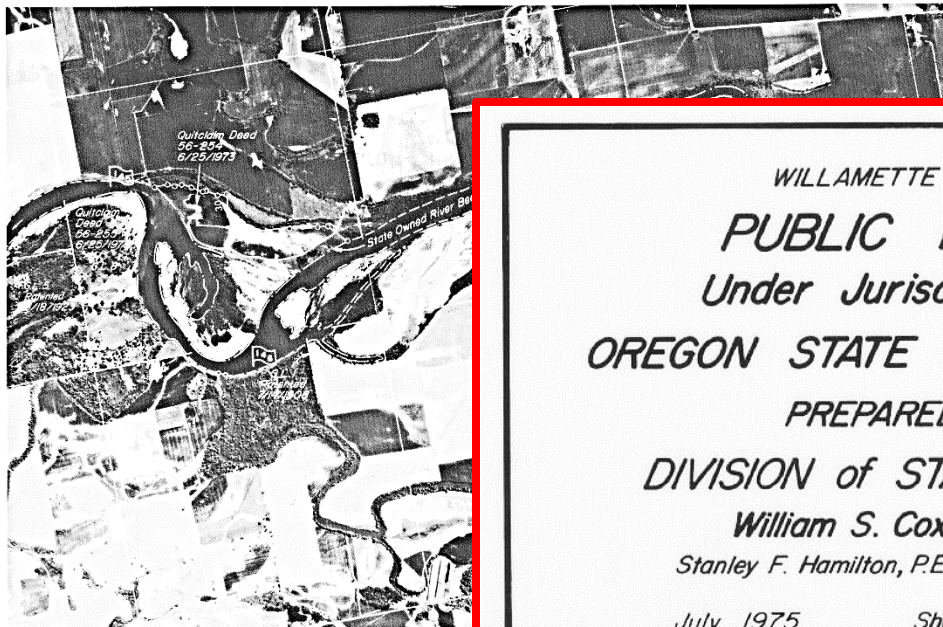
COUNTIES

BENTON	MARION
CLACKAMAS	MULTNOMAH
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LINN	YAMHILL

DIVISION of STATE LANDS

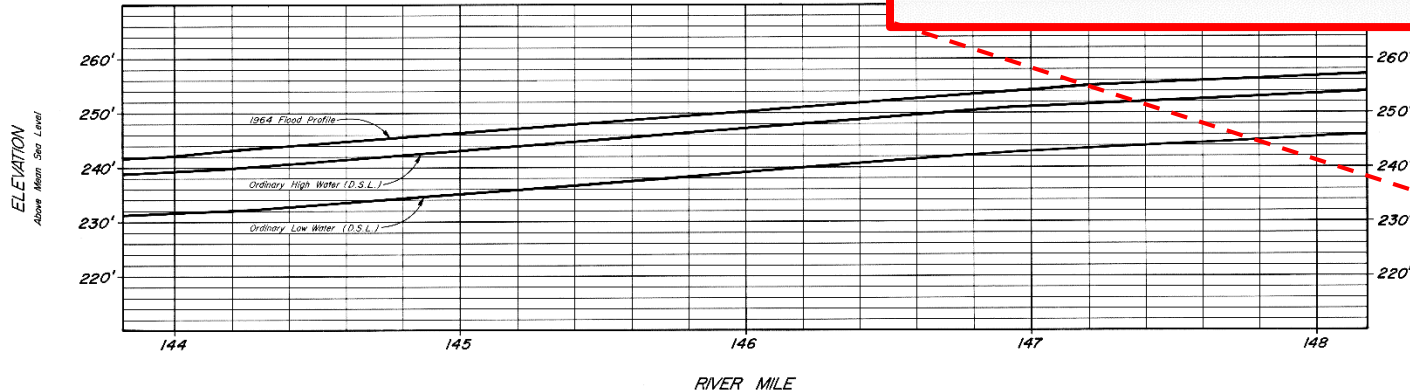
State Deeds, Plots, and Records

LEGEND



USCE Aerial Photography May 2, 1972

State ownership of the riverbed extends to Ordinary High Water and is symbolized by types of lines. These lines do not necessarily of the low or high water boundary.



WILLAMETTE RIVER PUBLIC LANDS Under Jurisdiction of OREGON STATE LAND BOARD

PREPARED BY
DIVISION of STATE LANDS

William S. Cox, Director
Stanley F. Hamilton, P.E., Staff Engineer

July 1975 Sheet 47 of 57

WILLAMETTE RIVER
PUBLIC LANDS
Under Jurisdiction of
OREGON STATE LAND BOARD
PREPARED BY
DIVISION of STATE LANDS
William S. Cox, Director
Stanley F. Hamilton, P.E., Staff Engineer
July 1975 Sheet 47 of 57

INFORMATION SOURCES

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UNITED STATES WEATHER SERVICE

UNITED STATES GEOLOGICAL SURVEY

BUREAU of LAND MANAGEMENT

1850-1853 General River Survey
(Portland to Eugene)

COUNTIES

BENTON MARION

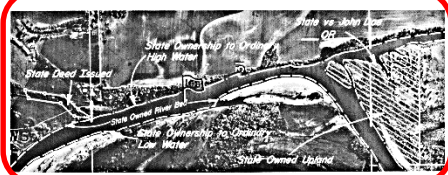
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LANE POLK

DIVISION of STATE LANDS

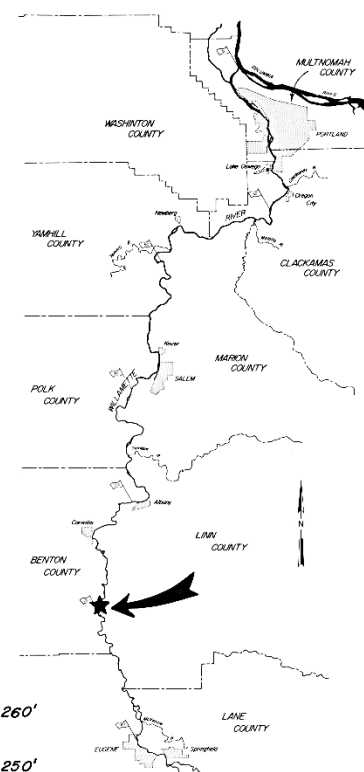
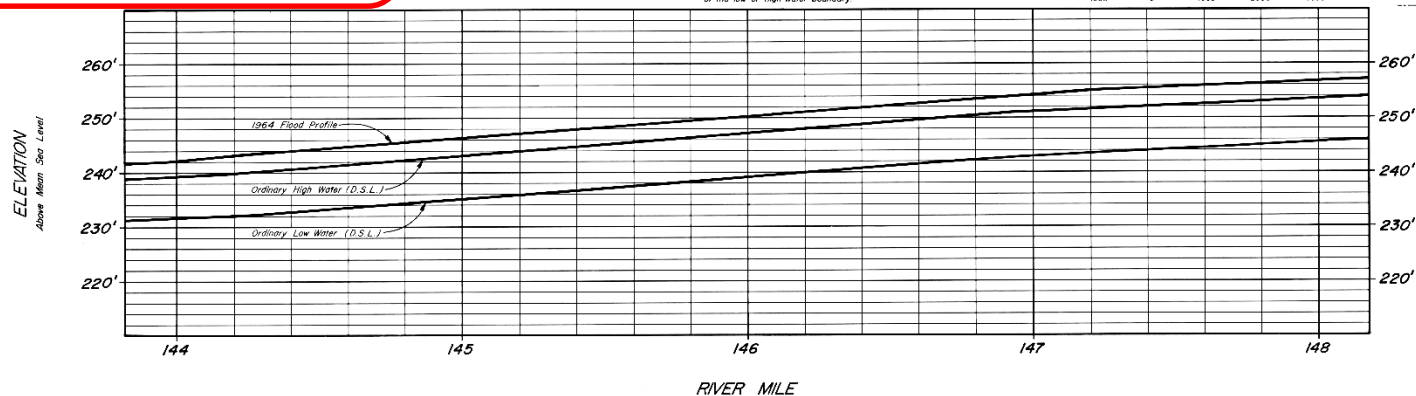
State Deeds, Plats, and Records

LEGEND



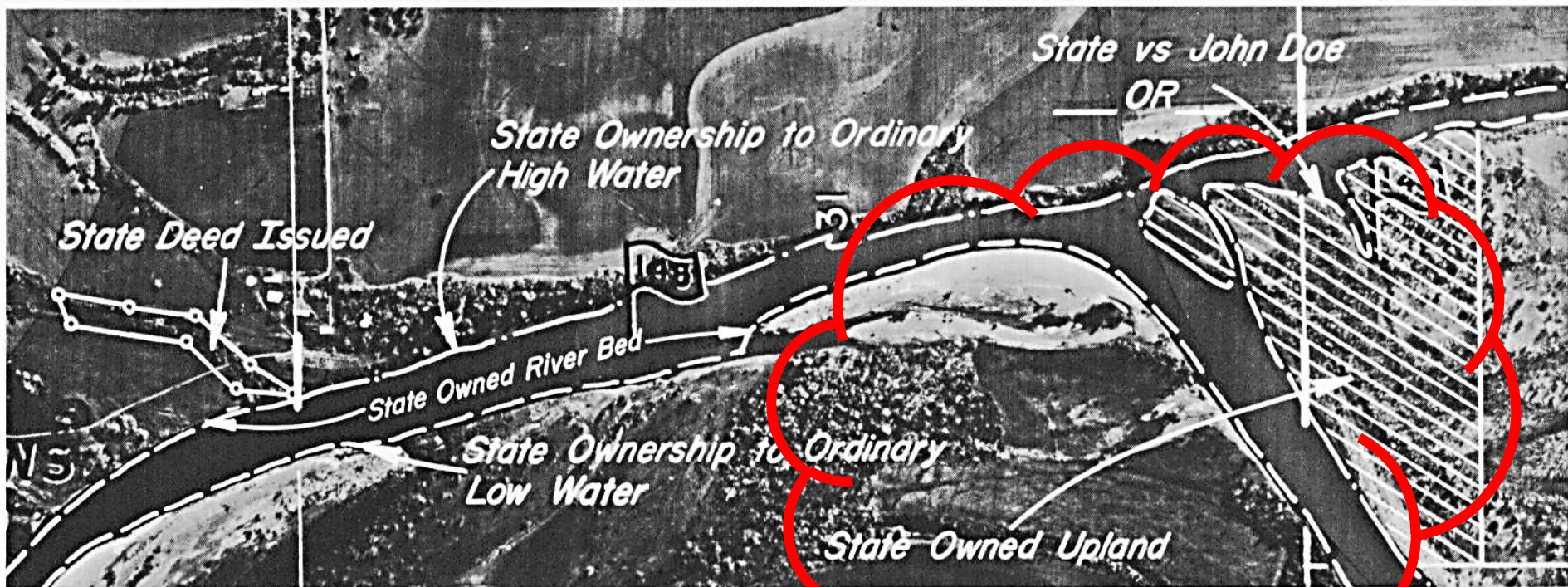
USCE Aerial Photography May 2, 1972

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WILLAMETTE RIVER
PUBLIC LANDS
Under Jurisdiction of
OREGON STATE LAND BOARD
PREPARED BY
DIVISION OF STATE LANDS
William S. Cox, Director
Stanley F. Hamilton, P.E., Staff Engineer
July 1975 Sheet 47 of 57

LEGEND



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BUREAU of LAND MANAGEMENT

1850-1853 General River Survey (Portland to Eugene)

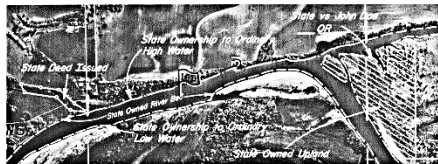
COUNTIES

BENTON	MARION
CLACKAMAS	MULTNOMAH
LANE	POLK
LINN	YAMHILL

DIVISION of STATE LANDS

State Deeds, Plots, and Records

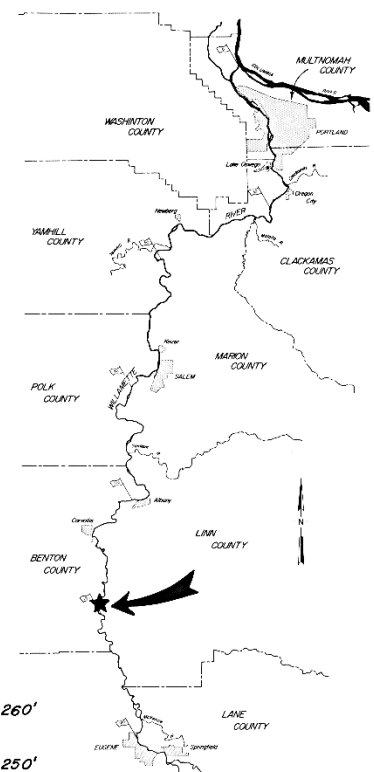
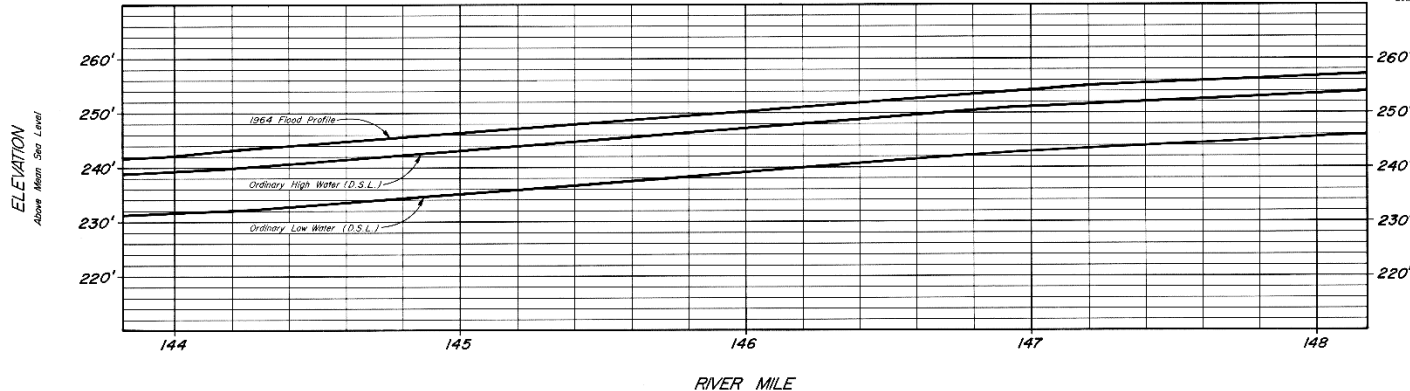
LEGEND



USCE Aerial Photography May 2, 1972

State ownership of the riverbed extends to either Ordinary Low Water or Ordinary High Water and is symbolized on the photograph by two types of lines. These lines do not necessarily trace the actual location of the low or high water boundary.

SCALE IN FEET
 1000 0 1000 2000 3000



WILLAMETTE RIVER
PUBLIC LANDS
 Under Jurisdiction of
OREGON STATE LAND BOARD
 PREPARED BY
 DIVISION of STATE LANDS
 William S. Cox, Director
 Stanley F. Hamilton, P.E., Staff Engineer
 July 1975 Sheet 47 of 57

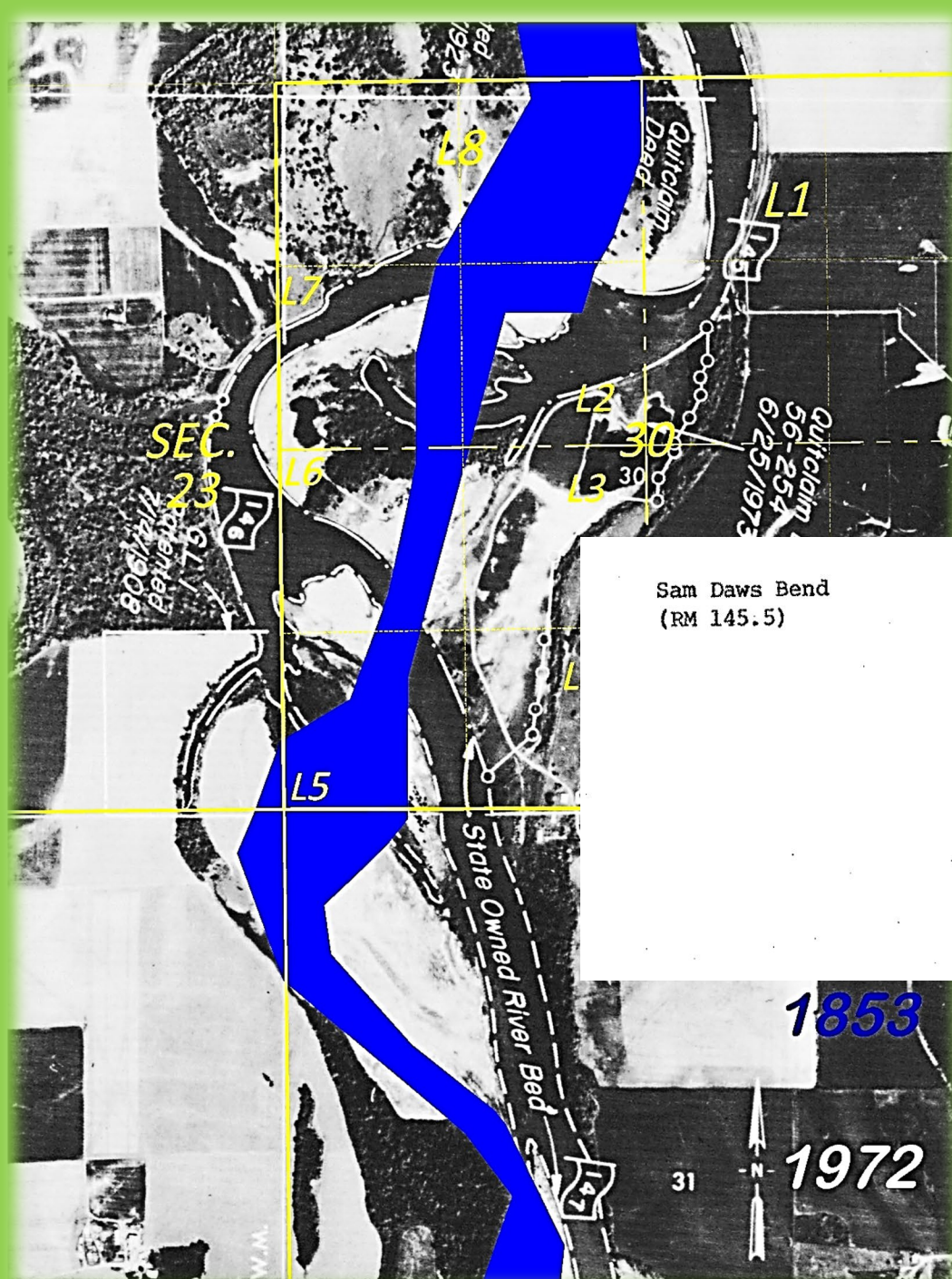




Sam Daws Bend
(RM 145.5)

By comparing the 1853 G.L.O. survey to the Army Engineers' of 1895, it can be seen that there has been little change at the point except for a slight westward migration of the channel. By 1932 the area now called Sam Daws Bend had developed into a well-established river characteristic. The major factor causing the development of this land form was a slight reorientation of the river's channel after it took the east channel around a small island just upstream.

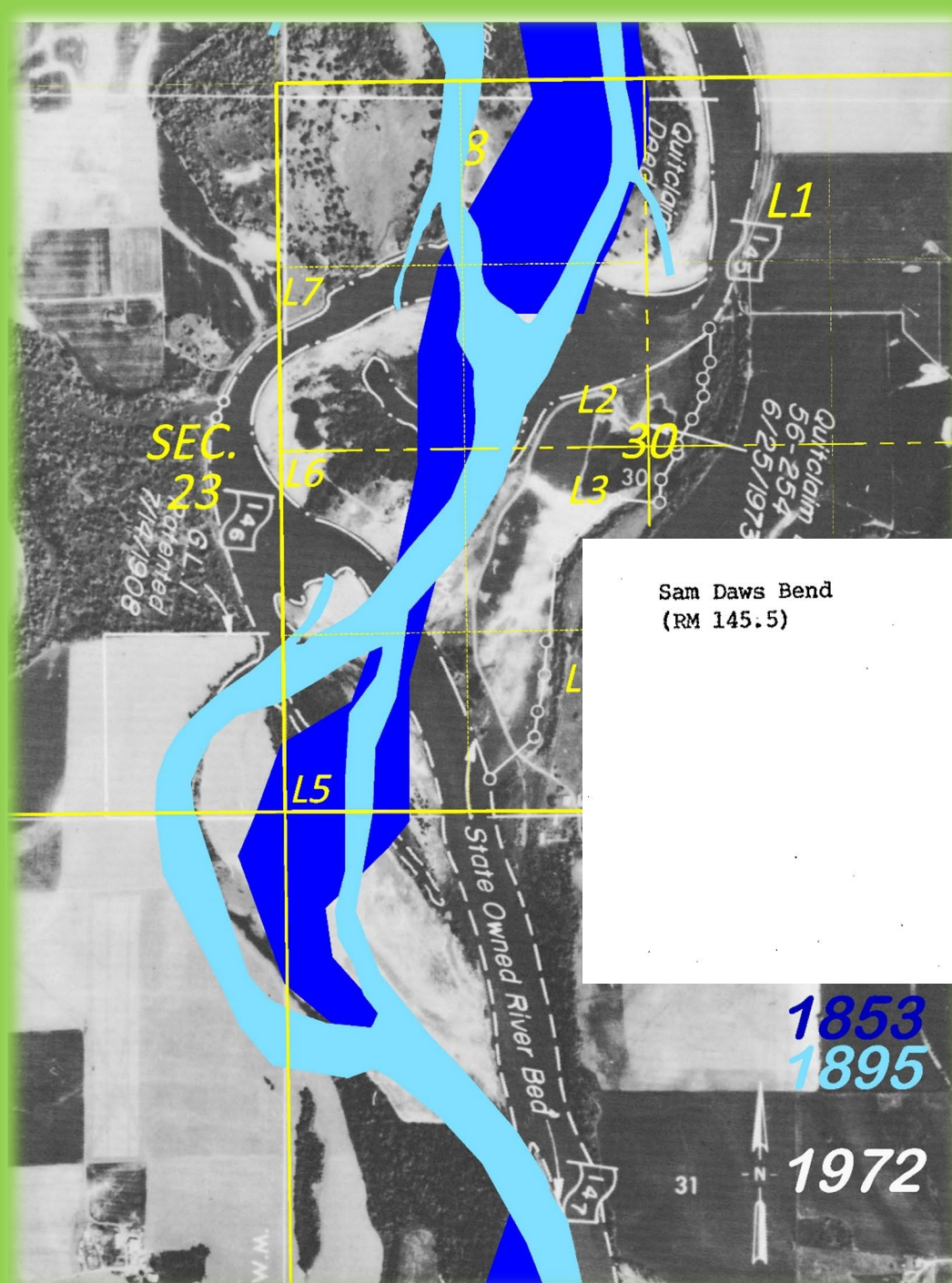
It is the Division's opinion that the changes which resulted in the transition from the 1853 channel to the 1972 channel are the result of natural, slow, and gradual processes of accretion and erosion.



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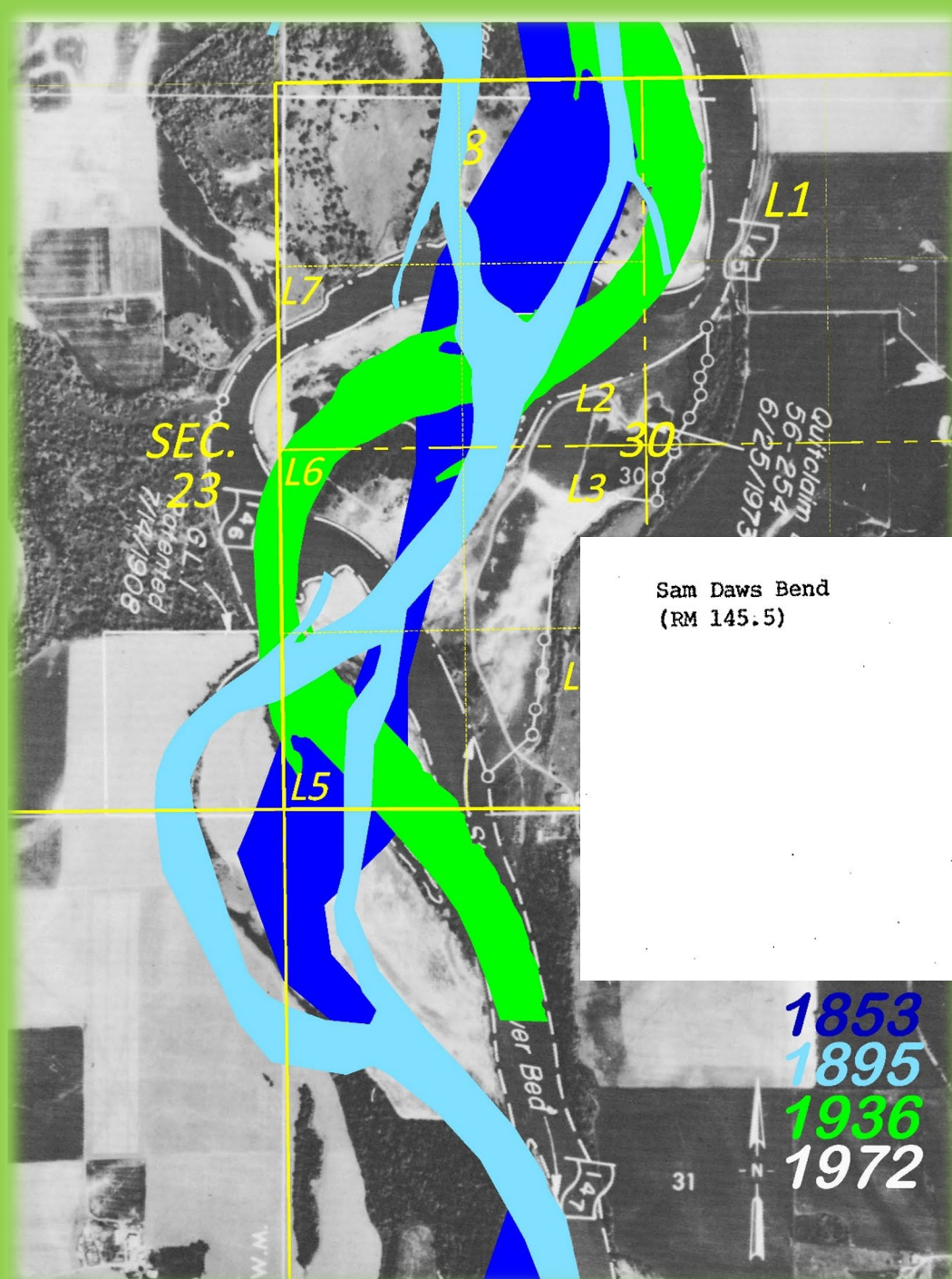
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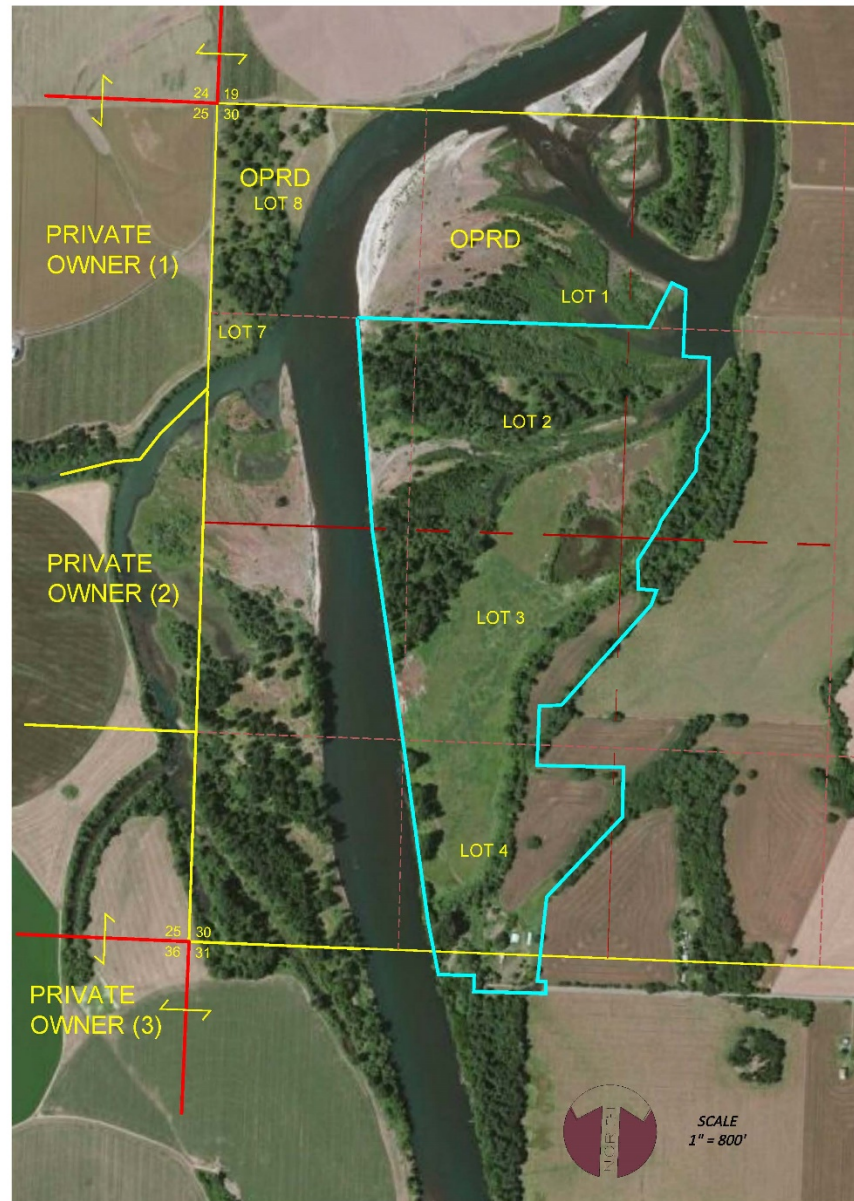
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1853
1895
1936
1972



Oregon Parks and Recreation Department



SAM DAWS WILLAMETTE GREENWAY
TOWNSHIP 13 SOUTH, RANGE 4 WEST, SECTION 30



Bill Baierski, P.L.S., C.W.R.E.

Senior Surveyor, Engineering Section, Park Development Division

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**Oregon Parks
and Recreation
Department**