



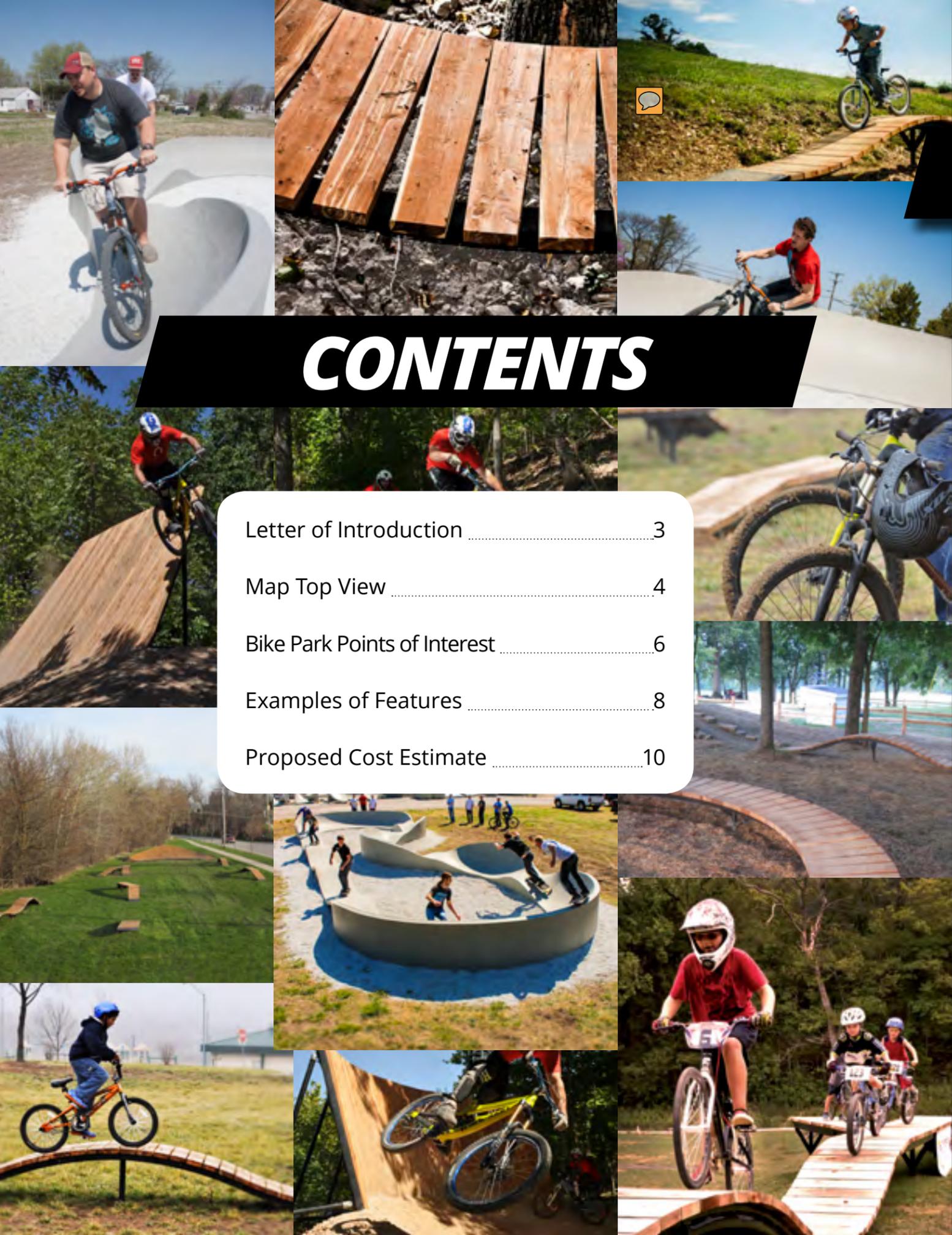
FROST FIRE
The Pembina River Gorge
North Dakota



FROST FIRE BIKE PARK

WALHALLA, ND





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LETTER OF INTRODUCTION

FROST FIRE SKI AREA & BIKE PARK

North Dakota Parks and Recreation Department
 Attn: Matthew Gardner, Recreation Division Manager

We are excited to submit a conceptual proposal for the development of biking infrastructure at Frost Fire Ski Area. This proposal should serve as a resource for planning and grant application processes. As the premiere provider of sustainable mountain bike features and bike park design, developing mountain bike projects throughout the US, we are pleased to see the North Dakota State Parks and Recreation Department working to be at the forefront of bike recreation development.

The plan we are proposing for Frost Fire will be a key component on not only serving visitors of the park but attracting a demographic that may have not visited in the past. We are confident that you will see a greater demand for biking activities and infrastructure with each successful project that is completed.

Included in this proposal are various graphics and an associated cost proposal to develop what we believe is an optimal use of the area and a great first step to making Frost Fire Ski Area a mountain biking destination. Of course this is still conceptual and we will work with the project team to make any changes in layout, scope or project budget necessary.

Sincerely,

Tim Babcock
 Bike Park Development Manager
 Progressive Bike Ramps
 601 South McKinley Ave
 Joplin, MO 64801

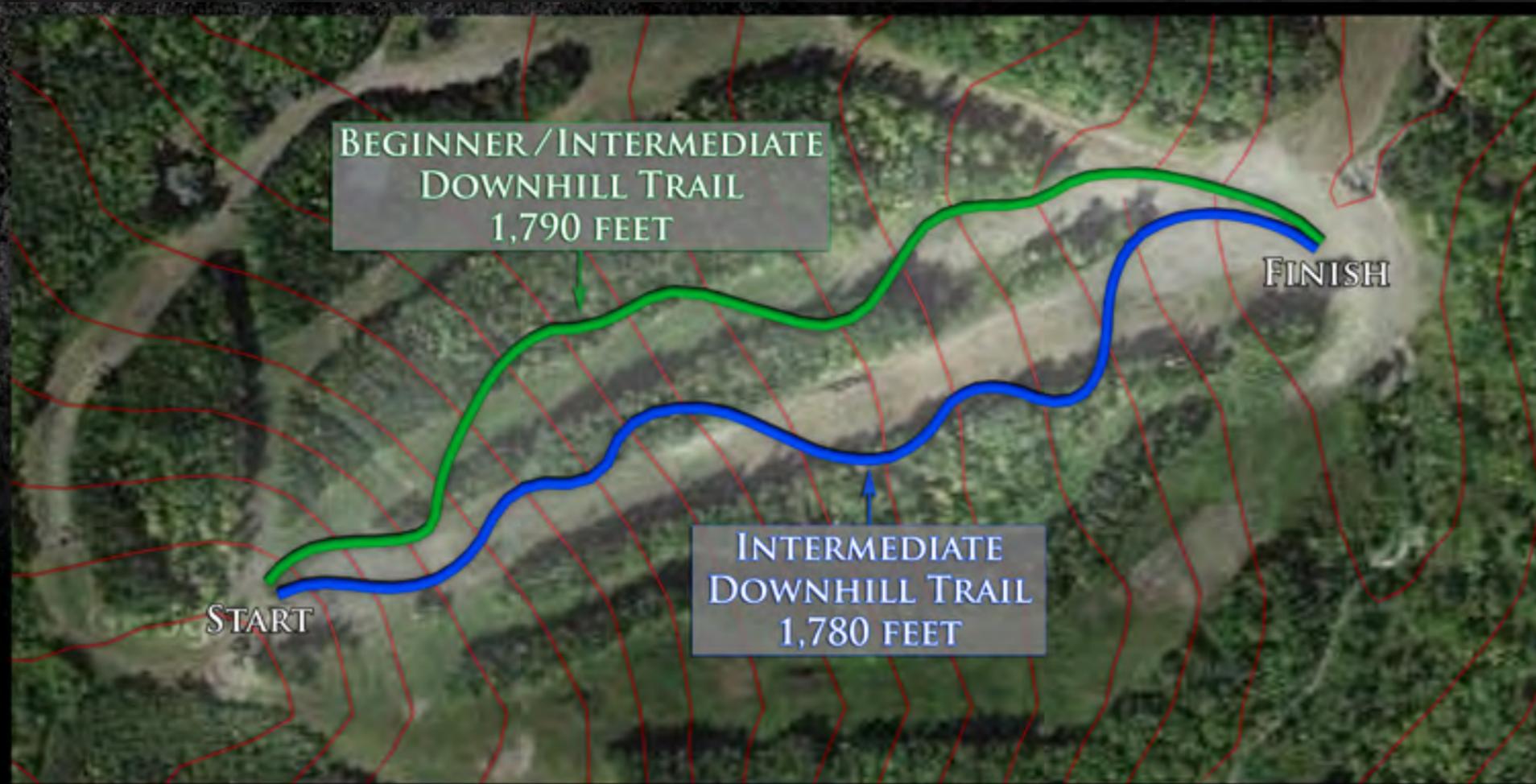


BEGINNER / INTERMEDIATE
DOWNHILL TRAIL
1,790 FEET

FINISH

START

INTERMEDIATE
DOWNHILL TRAIL
1,780 FEET



FROST FIRE
The Pembina River Gorge
North Dakota



CURVED WALLRIDES

DOWNHILL TRAILS

EXAMPLES OF FEATURES



The Hammock



Curved Wall Ride



Kicker Ramp



Whale Tail



Talladega



Triple Roller

PROPOSED COST ESTIMATES

Frost Fire Ski Area Bike Park. Walhalla, ND					
Proposed Cost Estimate By: Progressive Design Team - January 2016					
Item #:	Description:	Unit:	Unit Price:	Quantity:	Total:
Master Plan Design Package					
1	Master Plan Design Package (NJPA)		\$15,000.00	1	\$15,000.00
DH Intermediate Trail					
2	Intermediate Trail Construction	LF	\$15.00	1780	\$26,700.00
3	Insloped Bermed Turns	LS	\$750.00	8	\$6,000.00
4	2' Rock Drop	LS	\$400.00	1	\$400.00
Trail Construction Total:					\$33,100.00
Progressive Bike Ramp Features:					
5	Double Roller (2' P, 0' V)	LS	\$4,269.84	1	\$4,269.84
6	Ladder Drop	LS	\$2,067.64	2	\$4,135.28
7	Kicker Ramp	LS	\$3,726.56	2	\$7,453.12
8	Hammock	LS	\$13,444.44	1	\$13,444.44
9	Intermediate Curved Wall 65 Deg. 20' Rad.	LS	\$13,444.44	1	\$13,444.44
10	Kicker Ramp	LS	\$4,294.98	4	\$17,179.92
11	Step Up/Down Box	LS	\$9,158.80	1	\$9,158.80
12	Intermediate Slant Wall	LS	\$11,247.20	1	\$11,247.20
Subtotal:					\$80,333.04
Shipping & Handling:					Free
Install:					\$8,033.30
PBR Features Subtotal:					\$88,366.34
DH Intermediate Total:					\$121,466.34

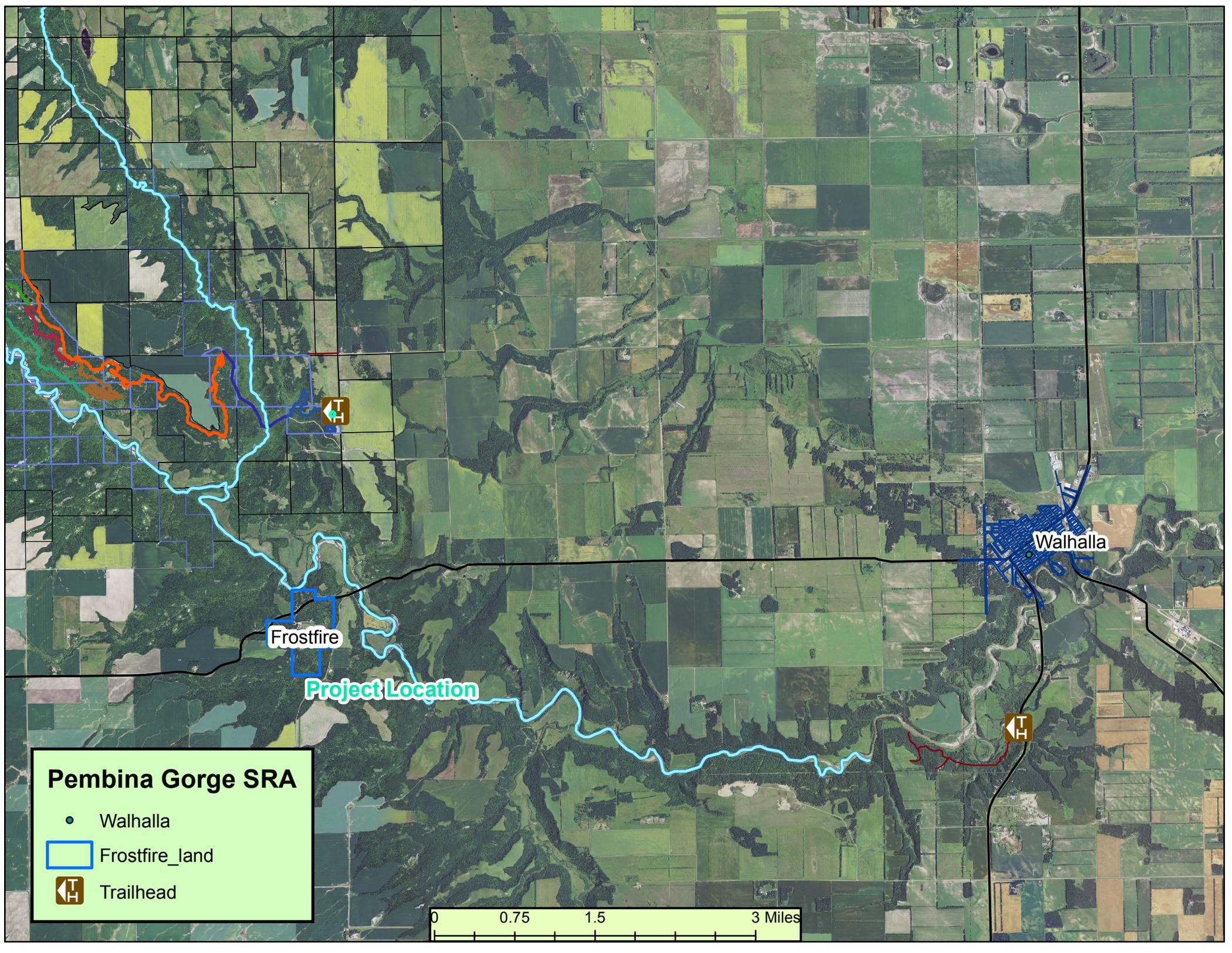
DH Beginner/Intermediate Trail					
Item #:	Description:	Unit:	Unit Price:	Quantity:	Total:
13	Intermediate Trail Construction	LF	\$15.00	1790	\$26,850.00
14	Insloped Bermed Turns	LS	\$750.00	7	\$5,250.00
15	2' Rock Drop	LS	\$400.00	2	\$800.00
Trail Construction Total:					\$32,900.00
Progressive Bike Ramp Features:					
16	Teeter Totter	LS	\$1,998.40	2	\$3,996.80
17	Ladder Drop	LS	\$2,067.64	1	\$2,067.64
18	Kicker Ramp	LS	\$3,726.56	2	\$7,453.12
19	Wedge Table	LS	\$14,983.48	1	\$14,983.48
20	Beginner Curved Wall (55 Deg) (20' R)	LS	\$9,448.96	1	\$9,448.96
21	Kicker Ramp	LS	\$3,726.56	4	\$14,906.24
22	Wide Triple Roller	LS	\$12,121.52	1	\$12,121.52
23	Beginner Slant Wall (55 Deg)	LS	\$8,859.72	1	\$8,859.72
Subtotal:					\$73,837.48
Shipping & Handling:					FREE
Install:					\$7,383.75
PBR Features Subtotal:					\$81,221.23
DH Intermediate Total:					\$114,121.23
TOTALS:					
Master Plan Design Package					\$15,000.00
DH Intermediate Trail:					\$121,466.34
DH Beginner/Intermediate Trail:					\$114,121.23
Subtotal:					\$250,587.57
Mobilization (5%):					\$12,529.38
Subtotal:					\$263,116.95
5% Owner Contengency:					\$13,155.85
Frost Fire Ski Area Bike Park Estimate Grand Total:					\$276,272.80



**PROGRESSIVE
BIKE RAMPS**

Progressive Bike Ramps
601 S. McKinley
Joplin, MO 64801
855-727-7267





Frostfire

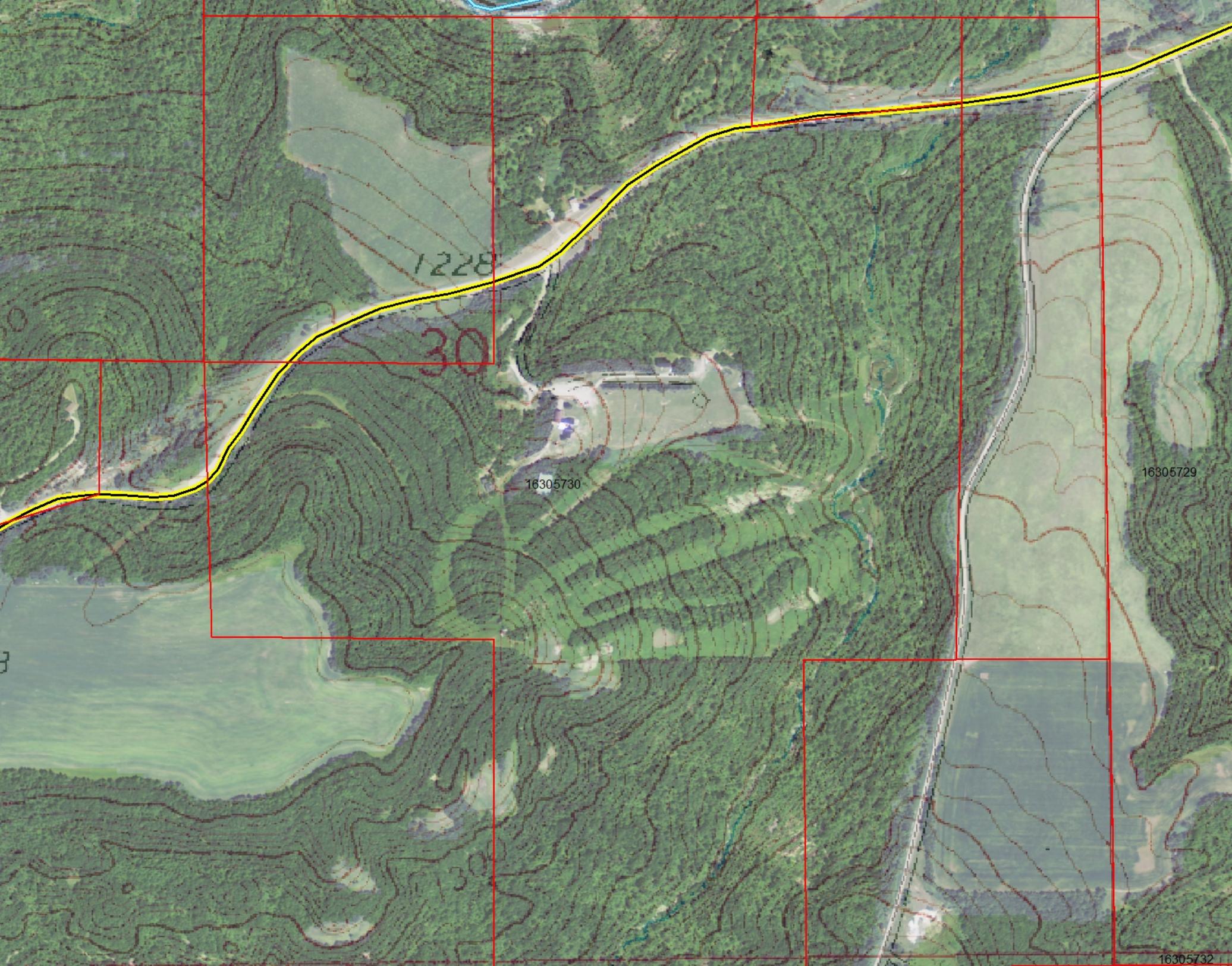
Walhalla

Project Location

Pembina Gorge SRA

- Walhalla
- ▭ Frostfire_land
- 📍 Trailhead





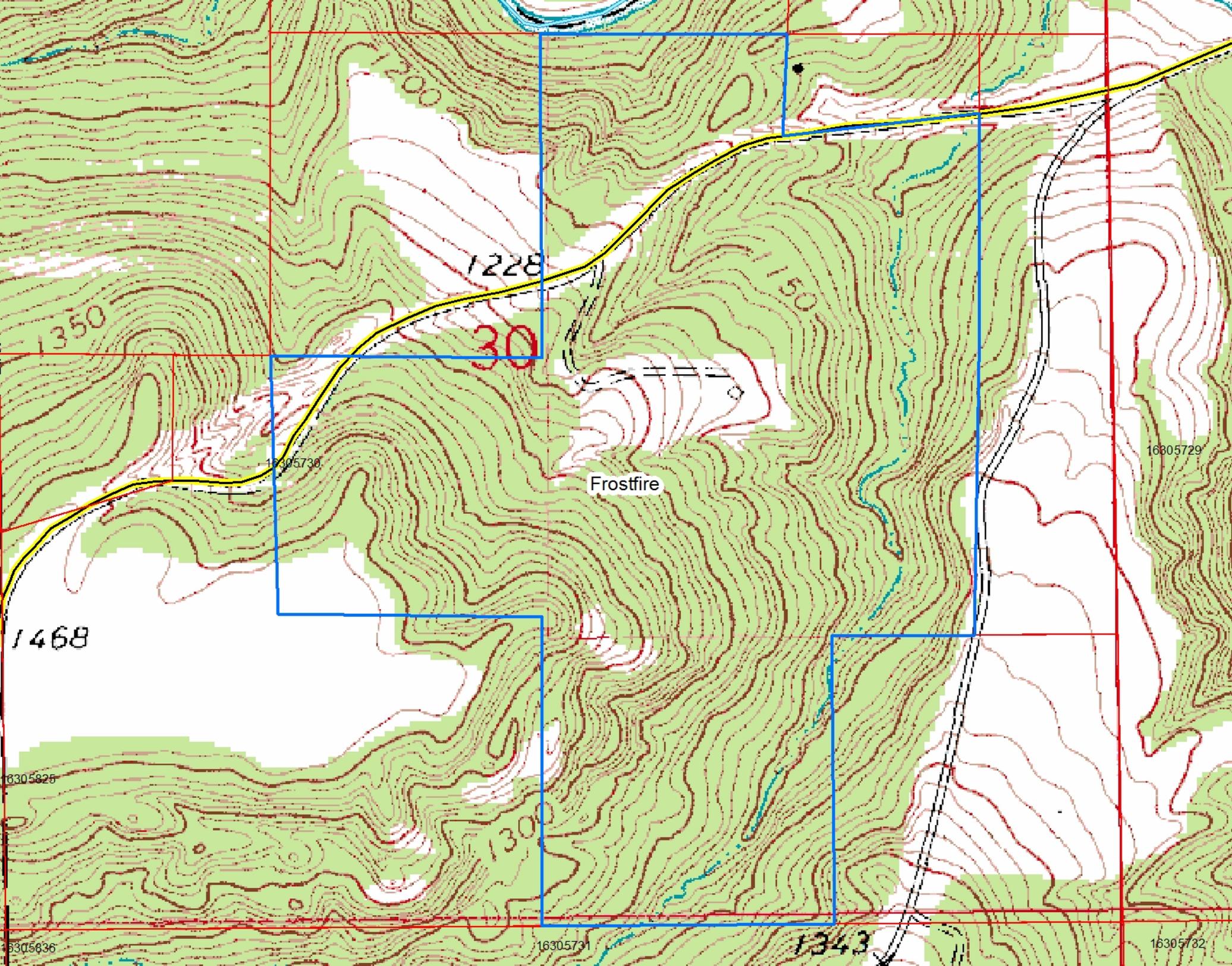
1228

30

16305730

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1228

30

Frostfire

1350

150

1468

1300

1343

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