

Winter Recreation at Braemar Park Tonight's Agenda



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- 7:00 – 7:15 Gather (Add your name to sign-in sheet)
- 7:15 – 8:00 Formal Presentation
- 8:00 – 8:30 Formal Question & Answer Period
- 8:30 – 9:00 Informal Question & Answer Period
- 9:00 Adjourn

Leave a completed comment card?



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Winter Recreation at Braemar Park

Open House

July 13, 2016

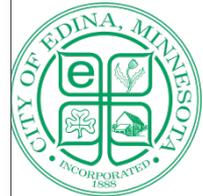


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Introduction

- Golf Operation Study 2013 – 2014
 Goal – 100% Cost Recovery
- Clubhouse Interior and Exterior Renovations and Tin Fish
- Driving Range & Academy 9
- Multi-Use Winter Trail Grooming – 2013
- Regulation Course Renovation - 2017 - 2018

Braemar Master Plan



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~CARD OF THE COURSE~

HOLES	PAR	A	B	C	D	E
1	4	374	387	321	286	242
2	4	405	377	337	313	262
3	5	344	331	344	332	312
4	5	331	308	274	249	145
5	3	177	162	134	117	119
6	5	320	293	260	240	138
7	5	329	311	270	257	138
8	5	315	280	250	230	147
9	4	265	276	262	232	211
TOTAL	36	3,274	3,070	2,596	2,444	2,034
10	4	374	300	333	292	244
11	5	388	354	326	312	305
12	4	475	489	392	306	287
13	3	284	194	186	133	137
14	4	439	412	391	340	286
15	4	420	394	375	326	273
16	5	276	306	294	279	260
17	5	337	330	311	321	301
18	4	337	411	365	346	284
TOTAL	36	3,467	3,448	3,306	3,043	2,483

LEGEND

GREEN	OAK SAVANNA 37.50 AC	CREATED/RESTORED/ENHANCED WETLAND MITIGATION 4.06 AC
FAIRWAY / ROUGH	POND	WETLAND BUFFER 32.11 AC (20.11 REQUIRED)
TEE	CLUBHOUSE	BOCCIE BALL COURTS (6)
SAND BUNKER	BUILDING	CROSS COUNTRY SKI TRAIL 5.3 MILES
CART PATH	EXISTING TRAIL	
EXISTING TREE	NEW TRAILS 1.02 MILES	



Production Schedule Key Milestones



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Description	Date
Park Board Introduction	April
City Council – Start Feasibility Study	May 17
City Council Update – Trail & Financial Feasibility	June 7
City Council Update – Trail & Financial Feasibility (Direction to continue feasibility study)	June 21
Feasibility Study – Sound, Light, and Snow Spill Modeling and Cont’d Financial/Operational Study	June & July
Public Open House	July 13
Park Board Review	August 8

Production Schedule Key Milestones - Continued



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Description	Date
Complete Study	June 29
City Council Public Hearing – Request for bid document preparation	September 7
City Council Bid Authorization	November 1
Bid Project	Nov. 2 – Dec. 2
Open Bids	December 2
Bid Award	December 20, 2016
Construction	Jan – Sept 2017
Open for 2017/2018 Winter Season	December 2017

Community Outreach



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- Press release
- Direct Mailing (3,600 households)
- Sun Current
- Star Tribune
- City Extra
- Project Website
- Social Media
 - Facebook (7500+ followers)
 - NextDoor (8300+ members)



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What is
Proposed?

Snowmaking at Braemar Park

View to the Northwest



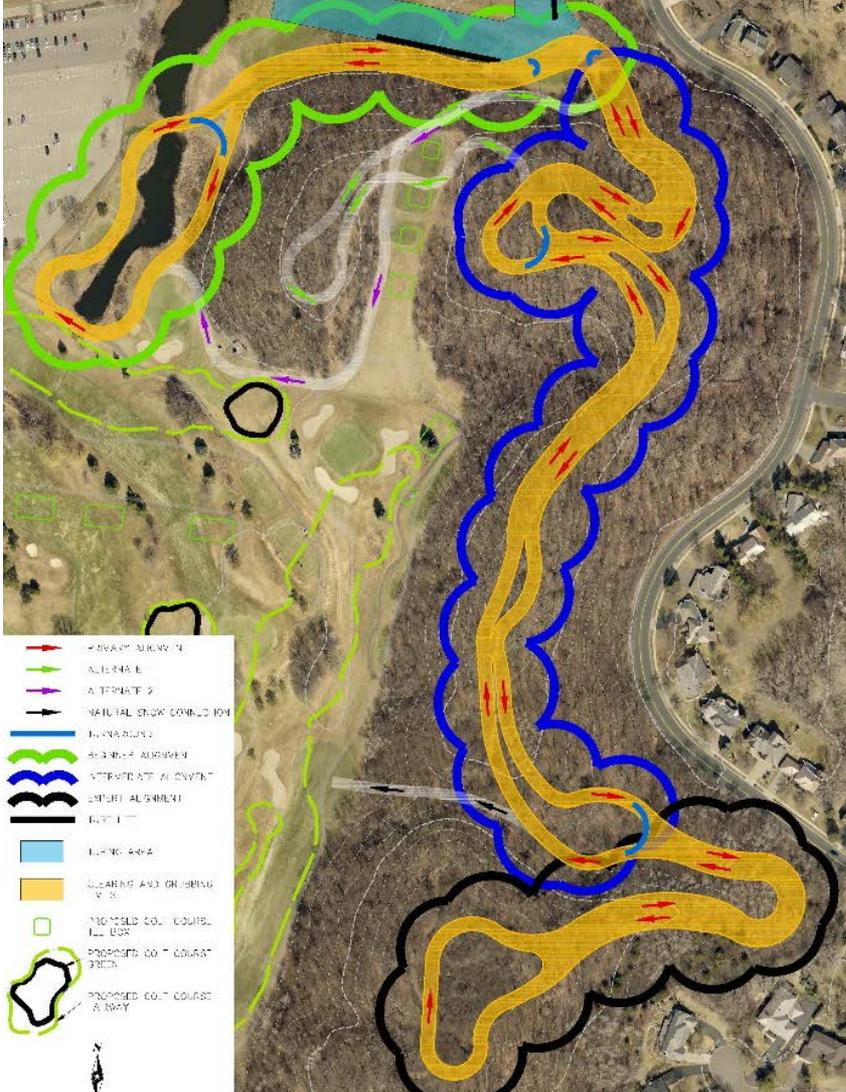
July 13, 2016



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Cross – Country Ski Trail Alignment :

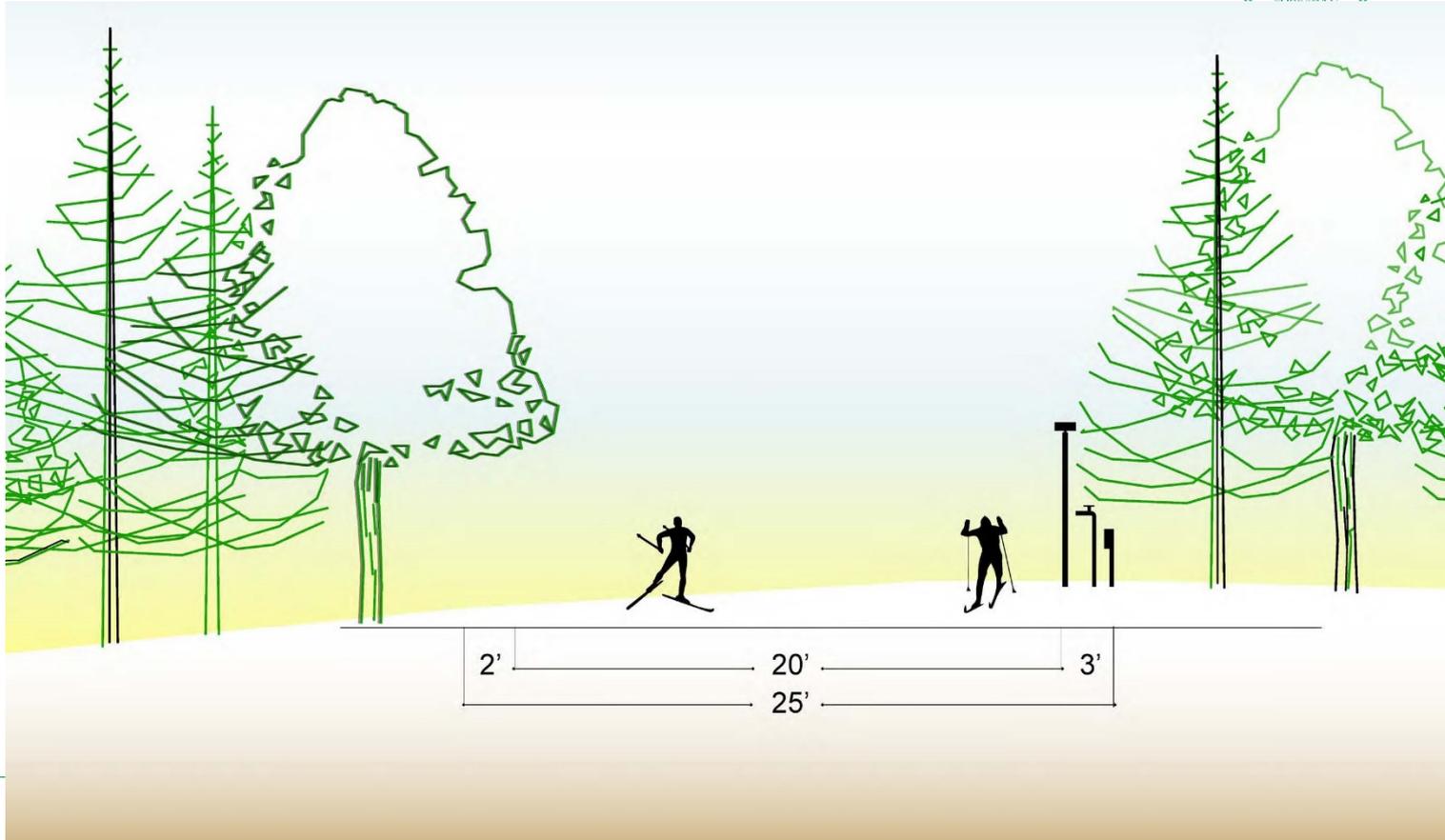
Machine Made Snow



Cross – Country Ski Trail Sections – 1 Way Trail



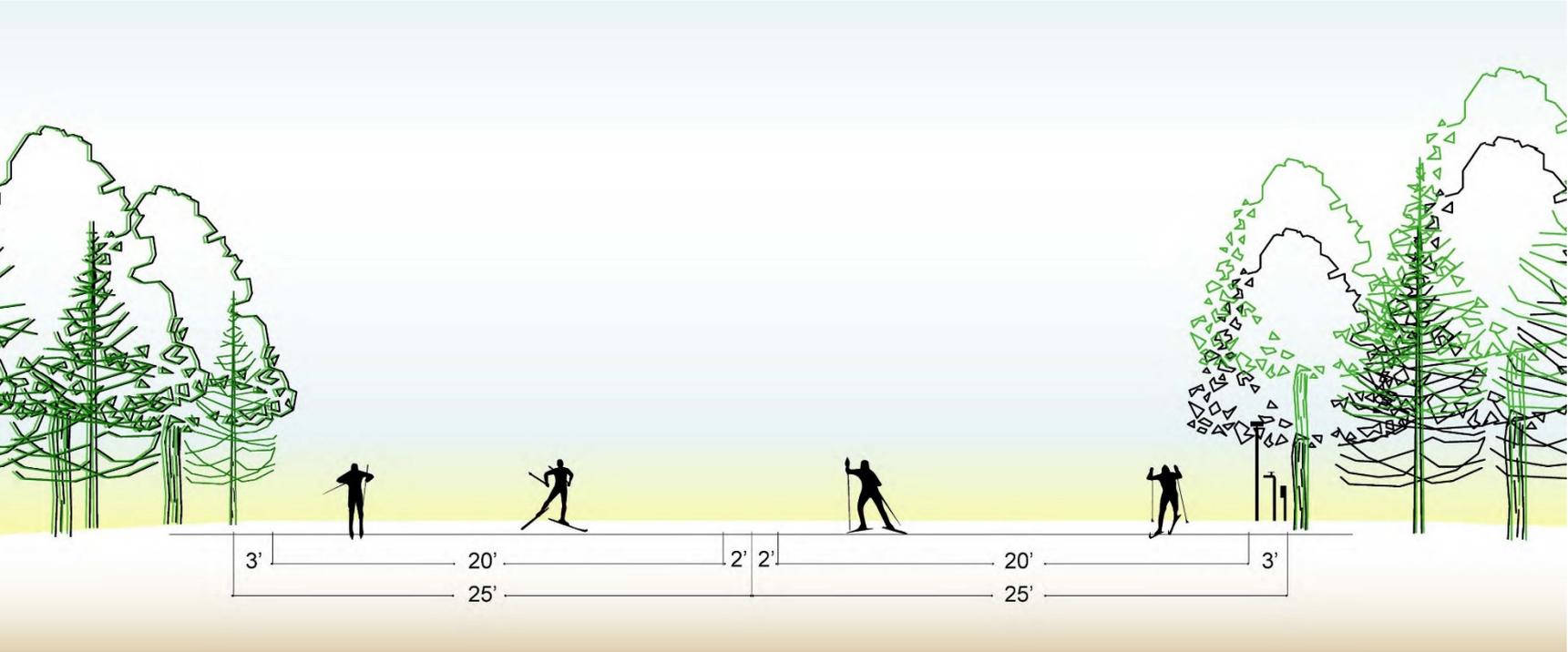
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Cross – Country Ski Trail Sections – 2 Way Trail



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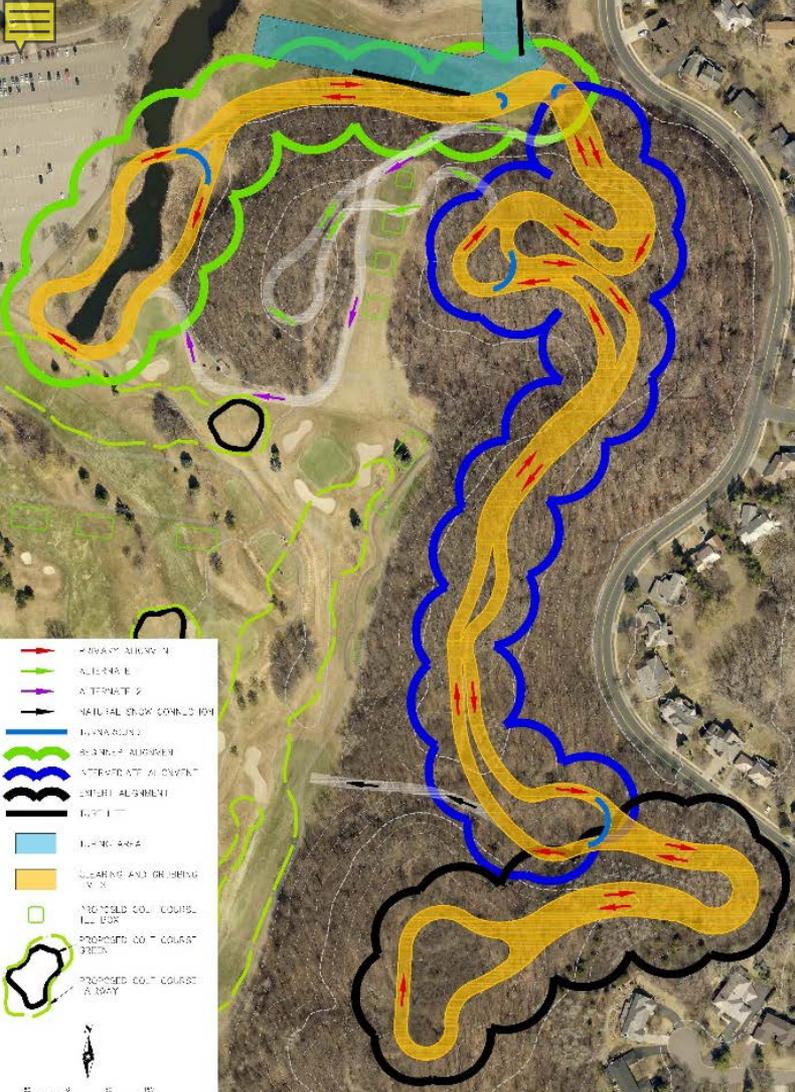




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• Trail Breakdown

- **Beginner** – 0.8 km
- **Intermediate** – 1.45 km
- **Expert** - 0.75 km
- Strategic Turnarounds
- **Total Length** – 3.0 km



LEGEND

-  Natural Snow Trail
-  Connection to Man Made Trail

MULTI-USE AREA:
DISC GOLF
PING GOLF
POKE GOLF
WALKING TRAILS
PICNIC AREAS
FIELD GAMES
WATER ACTIVITIES
SLIDING/TUBING



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Cross – Country Ski Trail Alignment : Natural Snow

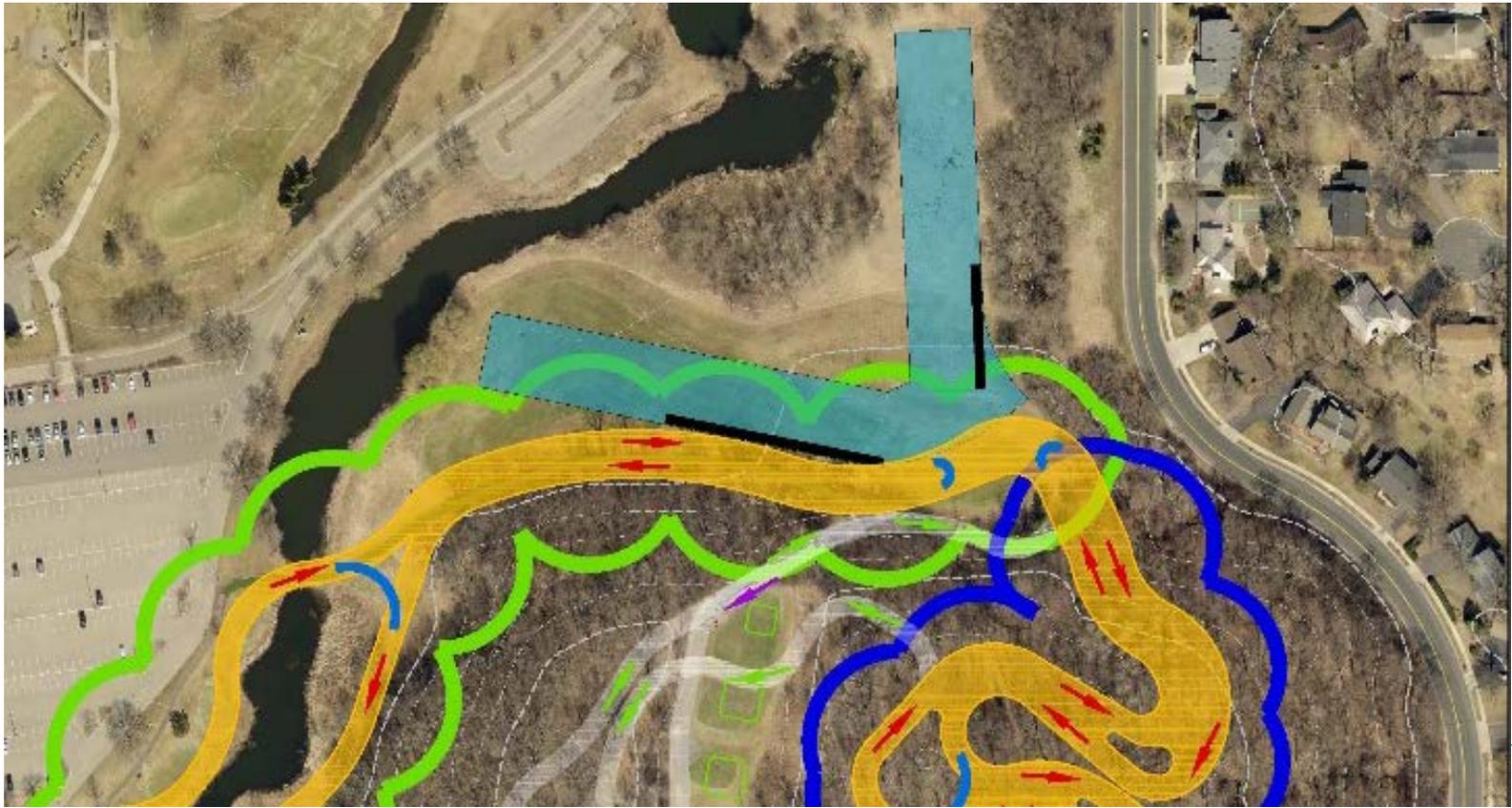
- Connects to machine-made snow trail
- Upper Loop 3 km
- Lower Loop 4 km
- Probably no lighting



Tubing Area



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North Tubing Hill

- 25' of vertical drop
- 6 lanes
- 28% for 80' of run
- 300' runout
- Handle tow along left side





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Northwest Tubing Hill

- 25' of vertical
- 5 lanes
- 11' wide @
- 9% for 150' of run
- 300' runout
- Handle tow along right side



Snow Tubing



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11' Lane



Handle Tow

Winter: Fat Tire Biking



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- Dedicated Single Track with snow making– adjacent to beginner XC skiing
- Special Events – groom all XC trails w/ machine made snow



Non–Winter: Single Track Mountain Biking



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- weave back and forth across cleared openings of XC trail



Snowmaking Operation – Cross Country Skiing



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Snowmaking Operation – Cross Country Skiing



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Snowmaking Operation Tubing



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Grooming Operations with
a 'lane-maker'



Impact - Expected Trail Side Equipment



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Lighting &
Snowmaking Water
& Electrical



Snowmaking Water
& Power - Detail



Pipe Corrosion
Protection

Impact - Construction



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Impact - Construction



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Impact – Snow Making – Duration Needed



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- Open for Christmas Break
- November – 30 hours
- December - 100 hours
- 26 days @ about 5 hours per day – likely overnight
- Must be below about 28 degrees Fahrenheit
- 7 snow making machines fed by 2 – 60 hp pumps to via pipes:
- Convert 1.7 M gallons of water to 1.5' of snow on 5.6 acres of XC trail
- Convert 1.9 M gallons of water to 3' of snow on 3.1 acres of tubing area

Impact – Potential Overspray with Machine-made Snow



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View to the
Northwest

Impact – Potential Overspray with Machine-made Snow



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View to the
South

Impact – Potential Overspray with Machine-made Snow



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Examples

Day	Highest Wind Gust Speed (mph)	Average Wind Speed (mph)	Highest Gust Direction
1	35	14.4	W
2	33	15.2	W
3	29	12.9	W
4	21	8.1	S



Impact – Noise From Machine-made Snow



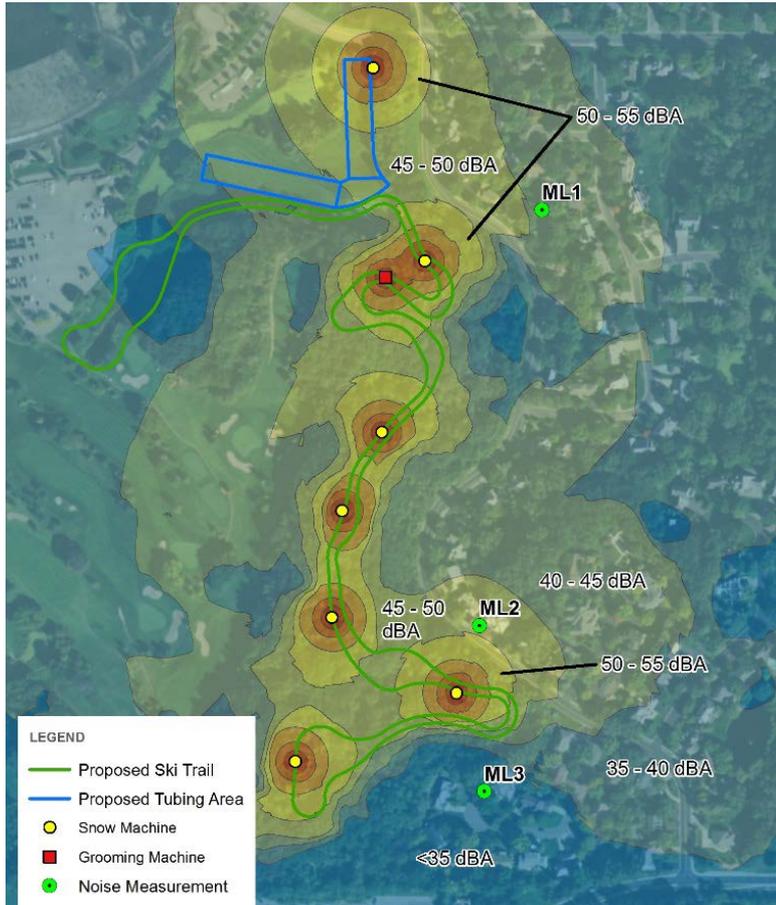
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Impact – Noise From Machine-made Snow



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MPCA guidelines limit noise levels;

60 dBA during the day

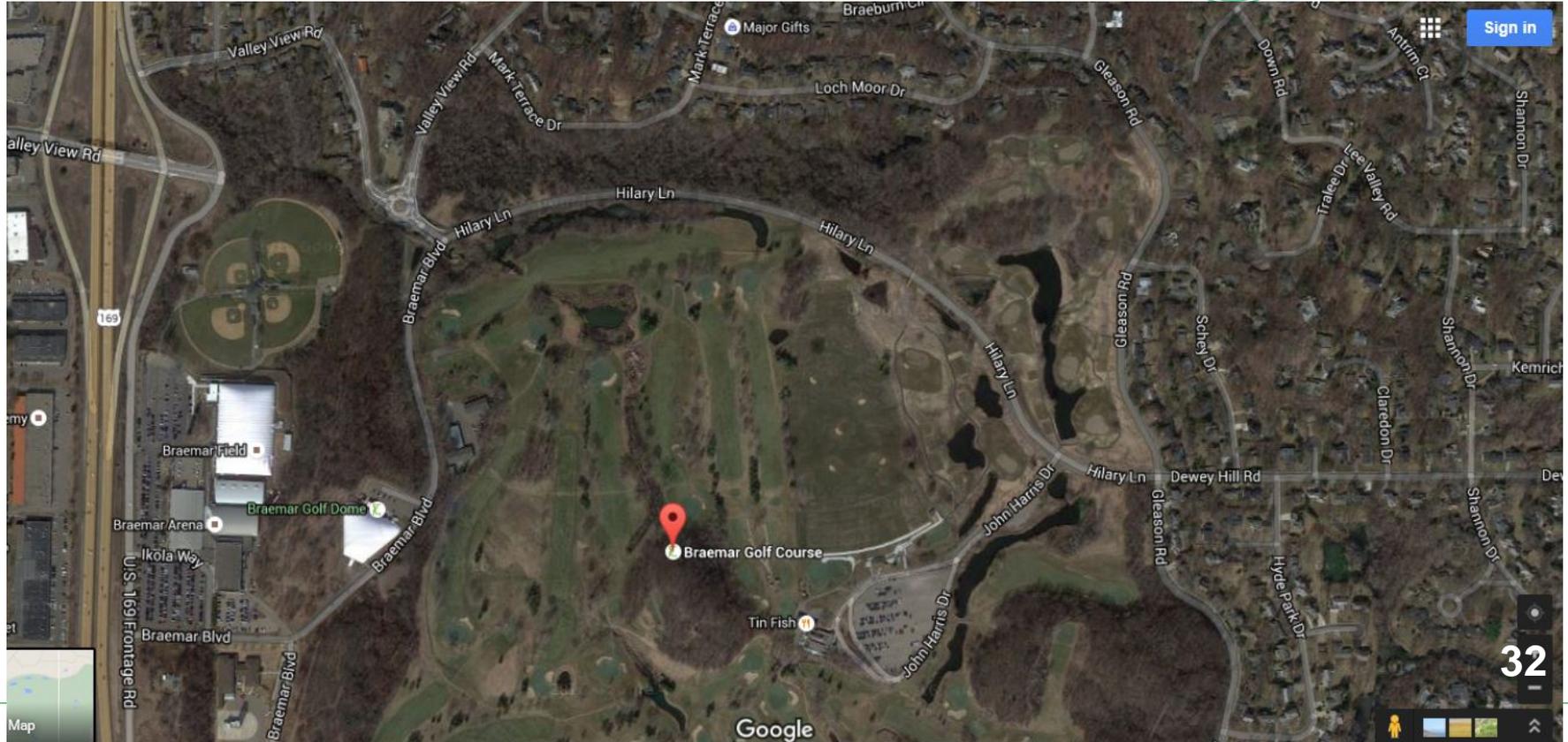
50 dBA during the night

Snowmaking operations fall slightly below the night time limit of 50dBA.

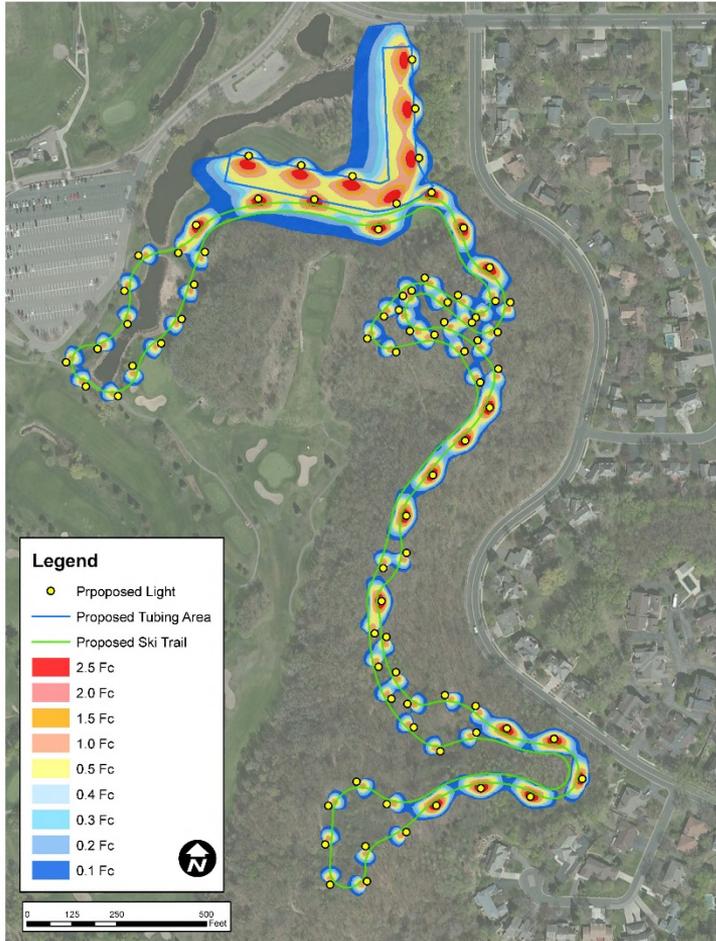
Impact – Light – Machine-made Snow Areas Only



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Impact – Light – Machine-made Snow Areas Only



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Impact – Light – Machine-made Snow Areas Only



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Shoebox LED Light –
XC Skiing & Tubing

Directional LED Light – XC
Skiing Only

Impact - Traffic

- Existing 475 space parking lot
- Existing Golf Use – 700 vehicles per day
- Anticipated Non-Golf Use – 300 vehicles per day
- Surrounding road network remains adequate



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Impact – Opinion of Probable Cost



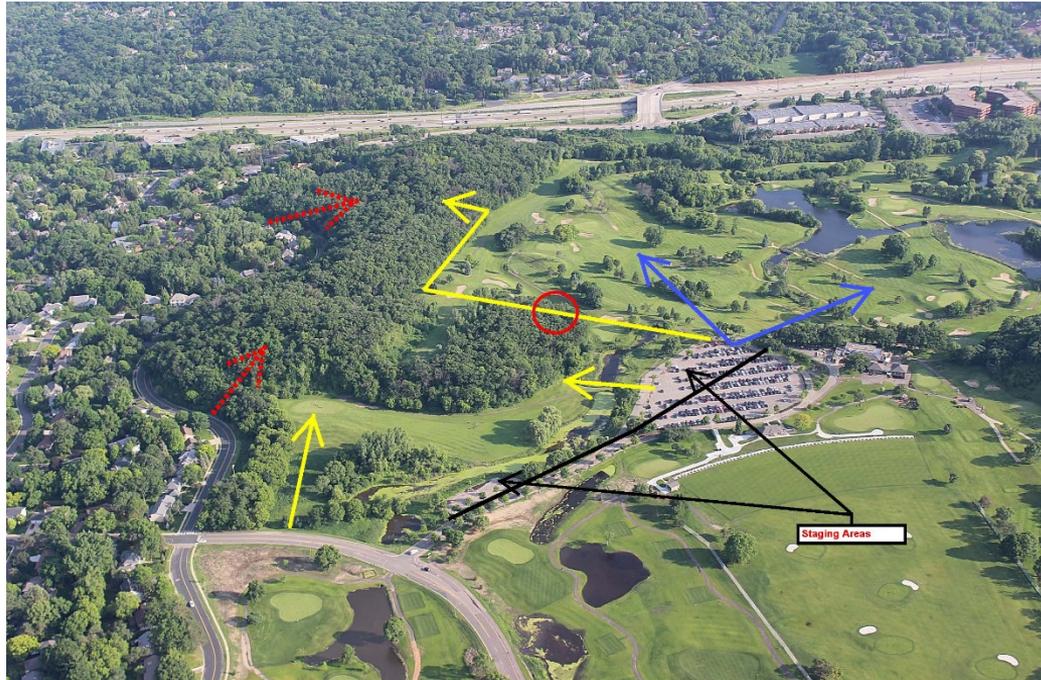
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Item	Opinion of Cost
Opinion of Total Project Cost – Construct XC Skiing and Tubing	\$2,900,000

Why Open During 2017?



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- use likely golf course construction access – black line & blue arrows.....
- to access winter recreation project at multiple points – yellow arrows.....
- to avoid access to winter recreation project from Gleason Road - red arrows

Why Open During 2017?



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- Concurrent construction with golf course – easier to make adjustments at border between projects
- Avoid impacts to north edge of proposed golf hole No. 10 – pump house / pipe installation
- Use steel pipe & copper / aluminum electrical cable – volatile costs
- Access winter recreation project thru golf course project - restore access with golf course project



Snow Season & Rates

- Two scenarios – Tubing & Nordic
 - Short season: 70 days (10 weeks, opening December 20 and closing March 1)
 - Long season: 84 days (12 weeks, opening December 20 and closing March 15)
- Pricing
 - \$9 for Nordic day ticket, \$75 for Nordic season pass
 - \$12 for Tubing (2-hour session)

Tax Impact



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- **PRELIMINARY ESTIMATES ONLY**
- \$3 million construction cost
- Proposed tax levy is 4.9% increase for 2017
- \$450,000 bond payment or 1.5% additional tax levy
- Impact to median (\$457,300) single family home would be approximately \$20/year

Thank You



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Questions?

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