

SUPPLEMENTAL LETTER AGREEMENT

May 11, 2016

RE: City of Edina

Winter Recreation Area at Braemar Park

SEH No. EDINA136169, 10.00

Ann Kattreh
Parks & Recreation Director
Parks and Recreation Department
4801 West 50th Street
Edina, MN 55424

Dear Ann:

The City of Edina continues to be the leader in providing its citizens with great amenities. We are excited to have the opportunity to help Edina add its next great amenity, winter recreation at Braemar Park. Thank you for already including us in several meetings with project stakeholders during the past few months. Exhibit 1 enclosed with this Supplemental Letter Agreement shows that that recreation can include activities relying on both machine made snow (snow) and natural snow that will not interfere with future golf course operations. For your convenience, this Supplemental Letter Agreement is divided into sections titled Project Understanding, Approach, Team Description, Fee, and Conclusion.

Project Understanding

We admire Edina for recognizing the opportunity that reconstructing the 27-hole golf course to 18-holes at Braemar Park presents to considering adding winter recreation featuring snow. Our experience shows that by considering both projects together now Edina is already addressing the fact that golf and snow are mutually exclusive. Many communities that have considered adding recreation that features snow to the wide open spaces of their golf course do not address this fact until it is too late. The price for that tardiness is usually expensive modifications to the golf course. Today golfers want to use a course as late as November and early as March. During November and March snow is usually being made or melting respectively. We understand this mutual exclusivity. Golfers do not want snow to diminish their late or early season golf experience.

Besides this mutual exclusivity, we will also help the City understand what kind of impacts snow, noise, and light generated by winter recreation might have on surrounding private property owners. Additionally, and maybe most importantly for some, we will help the City understand the revenues and expenses winter recreation will present. We have already developed these understandings for other winter recreation areas inside other metropolitan areas.

It is of great benefit to Edina that Braemar Park already has a large lit blacktop parking lot, clubhouse (containing Tin Fish), and adequate electrical power needed for a former municipal water well (now used for only golf course irrigation) adjacent to the area being considered for winter recreation shown in Exhibit 1. This well can likely become the source of water needed to make snow.

At a very schematic level, we believe the area shown in Exhibit 1 can physically contain the following opportunities for winter recreation with snow that all of Edina's property owners and visitors can use even when natural snow is absent without impacting golf.

- 1. A lighted cross-country skiing trail featuring snow that is about 2.5 kilometers long (loop).
- 2. The loop could contain about 30, 20, and 50 percent of beginner, intermediate, and difficult terrain levels respectively.
- 3. Because the loop can be 2.5 kilometers long, by completing laps of the entire loop common cross-country race distances in multiples of 5 kilometers can be achieved. These distances may be

attractive to Edina High School's Nordic Ski Team. Edina could consider hosting high school Nordic ski races on the loop. A sizable parking lot for cars and buses is already present. Additionally the clubhouse and Tin Fish are probably capable of handling concession needs of potential race athletes, their coaches, and fans.

- 4. Because the loop could be power groomed, it could periodically host other trail oriented activities such as fat-tire style winter biking and snow shoeing. At the conclusion of these activities, the power-groomer can return the trails to cross country skiing.
- 5. The loop can connect to possible cross-country skiing trails, featuring natural snow that Edina might locate inside of Braemar's proposed 18-hole golf course.
- 6. As many as 11 lighted snow tubing lanes that could include as many as 2 handle style tows that return tubers to the top of the hill for another run.
- 7. Because the snow tubing area could be power groomed, it could periodically host other downhill activities such as sledding or additional intermediate level cross country skiing trails. At the conclusion of these activities, the power-groomer can return the area to snow tubing.

Off-winter usage opportunities for this area will likely present themselves to Edina too. Edina may wish to consider opportunities such as zip wires, mountain biking, walking, running, and scenic overlooks for wedding event nuptial services and photography opportunities for wedding parties already using the clubhouse.

Approach

We understand the City would likely sell bonds to pay for this amenity. The bond sale would likely take place during late 2016. This timeframe causes us to simultaneously begin work not just on a feasibility study (study), but also the bidding documents themselves. Usually bid document preparation does not begin until the City Council (Council) accepts the study. However, this project's proposed production schedule below reveals that insufficient time exists to prepare the necessary bidding documents between the Council considering the study and the date the City must open bids from contractors to achieve its October bond sale.

	Proposed Production Schedule Key Milestones							
No.	Description	Date						
1	Receive Notice to Proceed	May 18, 2016						
2	Submit Preliminary Market Analysis/Financial Model Results to the City	May 30						
3	Park Department Chooses the Final Layout for Snow Tubing Area and Cross-Country Ski Trails (relying on both snow and natural snow) from the Base and Alternate Designs for the Snow Tubing and Cross-Country Ski Trails	June 6 to June 10						
4	Council Considers the Preliminary Results of the Market Analysis/Financial Model Results and Authorizes Conducting a Neighborhood Meeting on June 30 and Continuing the Preparation of the Study and Bidding Documents	June 7						
5	Continue the Design of Snow Making System using the Final Layout for the Snow Tubing Area and Cross-Country Ski Trails	June 11						
6	Send Invitations to Neighborhood Meeting to Affected Nearby Property Owners / Article Appears on the City Web Page and Newspaper Briefly Describing the Project Advertising the Meeting	June 16						
7	Conduct Neighborhood Meeting at the Braemar Golf Course Clubhouse to Review 90% Complete Study with Stakeholders	June 30						
8	Submit 90% Complete Study to City for Review by Park Board	July 1						
9	Park Board Reviews 90% Complete Study	July 12						
10	Submit Complete Study to the City	July 25						

	Proposed Production Schedule Key Milestones						
No.	Description	Date					
11	Council Considers the Study and Authorizes Advertisement for Bids	August 2					
12	Advertise for Bids	August 11, 18, and 25					
13	Open Bids	September 1					
14	Council Considers Awarding a Construction Contract to a Contractor	September 20					
15	City Uses Amount of Construction Contract for Budgeting Purposes	October - November					
16	Bond Sale to Finance this Project	December 2016 / January 2017					
17	Contractor Begins Construction	Winter 2017					
18	Snow Tubing Area and Cross-Country Ski Trails Relying on Snow Open for Business	December 2017 ¹					

Notes:

While we will immediately begin preparing both the study and bidding documents, we must particularly focus on preparing a market analysis/financial model verifying that it makes financial sense to add winter recreation featuring snow and natural snow to Braemar Park that can be used by all citizens of Edina. We will present the preliminary findings to the Council at its June 7 meeting. If the Council believes it makes sense, we will continue to use our wealth of experience to guide us as we prepare the study and bidding documents that will add winter recreation featuring snow and natural snow to Braemar Park within close proximity to private property, the golf course, and public streets shown in Exhibit 1. If it does not make sense to the Council, we will cease the preparation of both the study and bidding documents.

To achieve a year end bond sale, it is imperative that the City review and then choose a final layout for the snow tubing area and cross-country ski trails from the base and alternate designs for these features between June 6 and June 10, and no later than June 10, respectively. Otherwise it will be impossible to open bids on September 1. We will hurry to set out in the field no later than June 5 for City use the base and alternate designs for the snow tubing area and cross-country ski trails. In some areas, we will have to set this information out in the field before or after the 27-hole golf course opens or closes respectively. We understand our field activities cannot interfere with golf course operations.

Team Description

Since 2002 the SEH team that will execute the work plan described by this Supplemental Letter Agreement has successfully added winter recreation featuring snow inside metropolitan area parks in lowa, Illinois, and Minnesota. Successfully adding snow to winter recreation within close proximity to private property, the golf course, and public streets requires a special blend of winter recreation and municipal project design skills sets not found in the winter recreation design community. It is a lot different designing winter recreation inside Braemar Park than it is in the wide open spaces of the Soldier Hollow or Vail or Sunday River resorts in Utah, Colorado, and Maine respectively.

Our team for this project not only has this special blend, but it has also completed many municipal projects for Edina since the mid 1980's. We understand the Community that is Edina and what it takes to successfully complete projects in Edina. Edina deserves an expert team playing a proactive and pivotal role helping it make great decisions assuring winter recreation at Braemar Park featuring snow is a successful amenity. Our team has not only provided feasibility study, market analysis/financial model preparation, public engagement including project meetings, bid document preparation, permitting, bidding assistance, and construction phase services for winter recreation projects; but also specifically for projects in Edina.

¹ Weather dependent. If the weather is too warm leading up to December 2017, snow cannot be made.

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Besides strong winter recreation design and market analysis/financial model preparation bench strength, a detailed understanding of how nearby private property owners might view the impacts of winter recreation are a must. Our team not only has the required winter recreation design and market analysis/financial model preparation bench strength, but also a great understanding of how adding winter recreation needing snow in metropolitan areas can impact nearby property owners.

As a case in point, I will lead our team as its project manager. Since 1998 and 2002, I have had the pleasure of leading the SEH design teams that completed both our Edina municipal and winter recreation featuring snow projects respectively. As project manager, I will combine my unique knowledge of both winter recreation inside metropolitan areas and what it takes to successfully complete municipal projects for Edina. Besides myself, SEH employees Mike Horn, Ken Taillon, Tom Honer and Deric Deuschle have all not only completed Edina municipal projects, but also our winter recreation projects needing snow. They all understand how property owners near Braemar Park might view the impacts of winter recreation. Below are a few key items about these and some of our team members.

- 1. Mike Horn SEH Quality Assurance / Quality Control: Before joining SEH, Mike was a project manager for Three Rivers Park District. Mike managed all of Three Rivers Park District's projects either studying or adding winter recreation needing snow to Park District parks. As the Park District's consulting engineer, Paul worked with Mike on all of those projects. Since joining SEH, and on behalf of Edina, Mike has been inspecting Edina's contractor's work reconstructing both the Driving Range and Executive Golf Course in Braemar Park.
- 2. Noah Brautigam Morton Trails Cross Country Ski Trail Design: Morton Trails helped us 'trail blaze' the most challenging portions of the cross country ski trails receiving snow that were added to Three Rivers Park District's Hyland Lake Park Reserve. We worked together to assure that the added trail alignments would be both safe and enjoyable to ski. This time Noah will help us 'trail blaze' the most challenging portions of the trails the City might add to Braemar Park. The goal remains assuring a trail design that all of Edina's property owners and visitors can ski safely and enjoyably.
- 3. Dave Belin RRC Associates Market Analysis / Financial Model Preparation: Prepared an analysis and model for Three Rivers Park District during their study of potential summer time alpine activities at Hyland Ski and Snowboard Area. As our subconsultant, Dave just completed an analysis and model for a proposed winter recreation area in Sioux City, Iowa.
- 4. Mark Meadows and Mike Parsons Torrent Engineering and Equipment and HDR Engineering Respectively - Snowmaking Engineering and Noise Impact Study Preparation Respectively: Were both SEH subconsultants on Three Rivers Park District projects to reconstruct the snow making system at Hyland Ski and Snowboard Area and add snowmaking to cross country ski trails in Hyland Lake Park Reserve. Mark was the lead snowmaking engineer for the last two winter Olympic games in Vancouver, Canada and Sochi, Russia. He is currently designing the snowmaking for 2018 Winter Olympics in South Korea. Additionally, since 2002, Mark has been our subconsultant for all our winter recreation area projects needing snow.
- 5. Ken Taillon and Tom Honer SEH Trail Lighting and Electrical Power Distribution Design: Ken and Tom have provided these services for all our winter recreation area projects. Additionally, Ken has designed outdoor lighting for the City on numerous occasions as part of our street and utility reconstruction projects.
- 6. Toby Muse SEH Site Civil Engineering: Besides taking over project manager duties from Paul for the last 6 street and utility reconstruction projects completed by SEH for Edina, Toby is managing Three Rivers Park District's project to add the 9-Mile Creek Regional Trail to Edina.
- 7. Deric Deuschle- SEH Environmental: On behalf of Edina, Deric is providing wetland delineation and environmental permitting services for the project that will reconstruct the 27-hole golf course to and 18-hole golf course at Braemar Park. He provided these same services during the reconstruction of both the Driving Range and Executive Golf Course in Braemar Park.

Fee

Our experience with similar winter recreational projects reveals these specialty engineering services can cost as much as 21% of the project's construction cost. Of this 21%, the study and bid document preparation phases alone can cost as much as 5% and 8% respectively. Construction phase services (construction staking, inspection, and administration) usually require the balance of the 21%.

A very schematic level consideration of this project reveals its total project cost can be between \$2,000,000 and \$3,000,000. If we assume a construction cost of \$2,500,000 our estimated not-to-exceed fee described by the table below for study and bidding document preparation is 13% of the very schematic level construction budget. This is consistent with our experience for the scope of work required by this particular specialty project.

	Fee Summary Per Work Item								
No.	Description	Estimated Not to Exceed Fee ¹							
1	Prepare Study	\$138,131							
2	Prepare Bidding Documents and Provide Bidding Assistance	\$192,146							
	Subtotal	\$330,277							
3	Provide Construction Phase Services	To Be Determined							

Notes:

The City will be billed on an hourly basis subject to the not to exceed fee. The hourly billing rates are attached as Exhibit 2. The fees reported in this table are calculated in detail in the attached task hour budget. We will invoice the City monthly on an hourly basis. Our invoices will include expenses. The City may stop work at any time. If the Council chooses to stop work, we will immediately stop work and you will only be billed for work that has been completed.

Conclusion

This Supplemental Letter Agreement, Exhibit 1, Task Hour Budget, Exhibit 2, and our Agreement dated June 4, 2013 represent the entire understanding between the City of Edina and SEH in respect to the project.

Our combination of park design professionals, real world snowmaking experience, and market analysis/financial model preparation expertise will ensure that all of the Edina's immediate and long-term needs are covered. We sincerely appreciate our continued working relationship with the City. Please contact me at 952.912.2611 or ppasko@sehinc.com with questions regarding this Supplemental Letter Agreement.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.

Paul J. Pasko III, PE Project Manager

Enclosures

c: Dave Belin, RRC Associates

Noah Brautigam, Morton Trail Consultants

Mark Meadows, Torrent Engineering and Equipment

Mike Parsons, HDR

Marty Iozzo, General Corrosion Corporation

Toby Muse, SEH

Mike Horn, SEH

Ken Taillon, SEH

Tom Honer, SEH

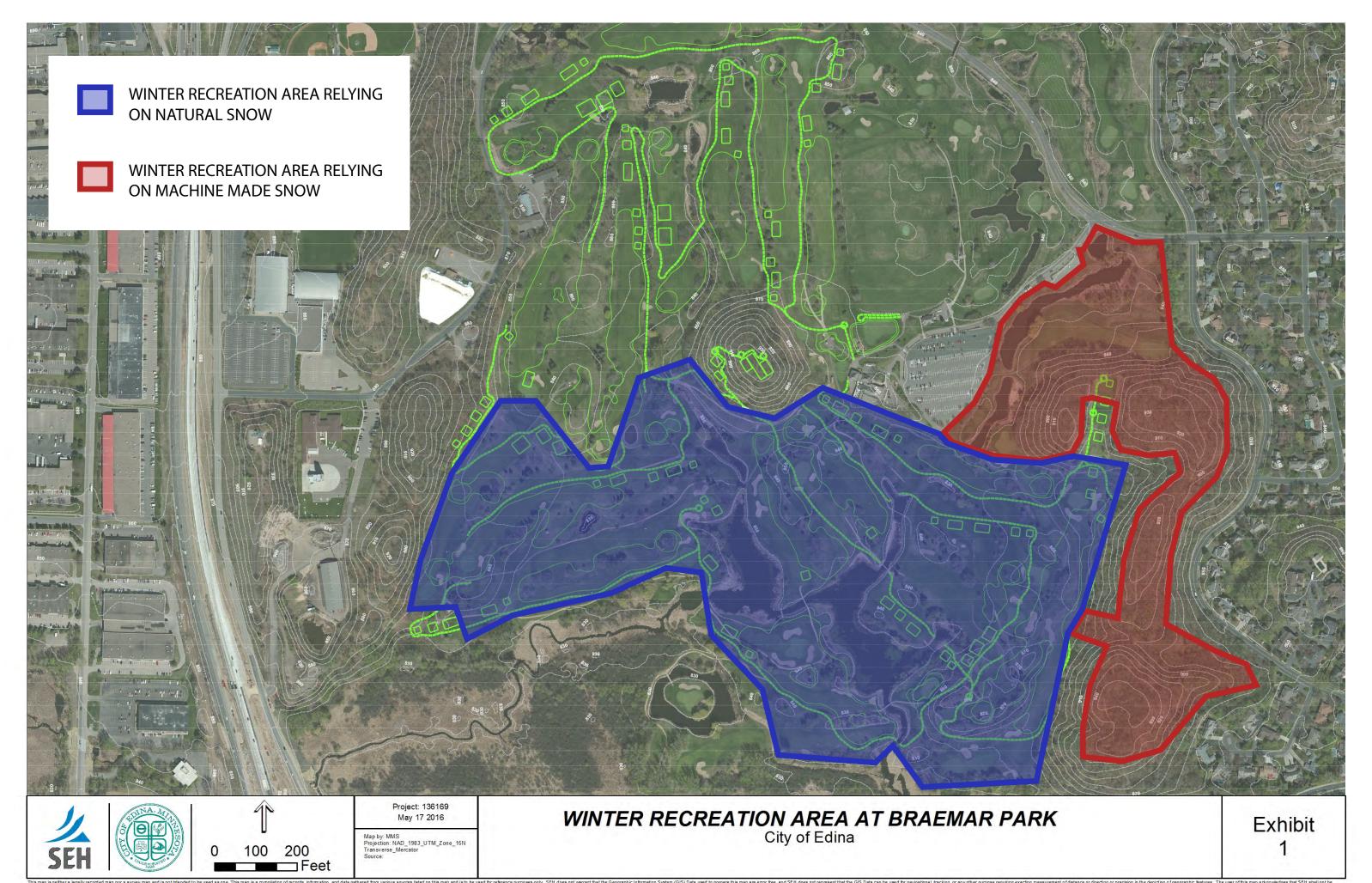
Brent Theroux, SEH

Mike Hemstad, SEH

¹ Includes reimbursable expenses including subconsultant fees.

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Accepted on thisday of	, 2016
City of Edina, Minnesota	
By:	
James Hovland, Mayor	
Scott Neal. City Manager	





Task Hour Budget Winter Recreation Area at Braemar Park

City of Edina

May 11, 2016

			ESTIMATED HOURS ESTIMATED HOURS															
	PROJECT TASKS	Client Service Manager	Project Manager	Senior Structural Engineer	Structural Engineer	Senior Designer	Electrical - Lighting	Electrical - Power	Electrical Staff Engineer	Geotech	Natural Resource s	Project Engineer	GIS	Landscape Architect	Survey Crew Chief	Survey Instrument Operator	Admin Tech	ESTIMATED COST
1.0 Feasibility Study (1)																		
1.1	Summary & Location																	
	Summary & Location (2)																	
	Subtotal Hours																	
	Subtotal Labor Cost																	
1.2	Initiation and Issues																	
	Initiation and Issues (3)																	
	Subtotal Hours																	
4.2	Subtotal Labor Cost																	
1.3	Existing Conditions Property (4)	1												4			2	
1.3.1	Utilities (5)	1 1	+						+		+			2			4	
1.3.3	Traffic (6)	'	1						1		1			2			1	
1.3.4	Trails (7)	1					1		1		1			4			2	
1.3.5	Water Well and Pumping (8)													4				
1.3.6	Lighting (9)													4				
1.3.7	Operations (10)													4				
1.3.8	Financial (11)(12)																	
1.3.9	Existing Golf Course Improvement Project																	
4240	Coordination (13) Review Geotechnical (33)	1	1	4	_						8			2				
1.3.10	Subtotal Hours	2		4	2						8			26			8	
	Subtotal Labor Cost	\$296		\$698	\$234						\$1,160			\$3,723			\$834	\$6,945
1.4	Proposed Improvements	\$290		\$090	ΨΖ34						\$1,100			φ3,123			\$634	Ψ 0,943
1.4.1	Property (14)											4		2			4	
1.4.2	Utilities (15)							8	24			4		2			4	
1.4.3	Trails (16)(17)	4										4		12			4	
1.4.4	Tubing (19)													4				
1.4.5	Water Well and Pumping (18)(58)							2										
1.4.6	Lighting (20)						24		24					2				
1.4.7	Noise Study (21)(22)																	
1.4.8	Corrosion Protection (23)																	
1.4.9	Operations (24)																	
1.4.10	Lift Options and Requirements Financial (25)	+							+		-							
1.4.12	Booster Station Pad and Foundations	+	+	6	12	12			+		+							
1.4.13	Coordinate with Prefab Building Supplier			2	4	12												
1.5	Project Cost / Schedule / Feasibility			_	7													
1.5.1	Statement of Estimated Probable Cost																	
	1 Construction Cost	4	†	1					1		1	32		12			4	
	2 Soft Cost (26)	7					2	1	8			32		12			-	
1.5.2	Project Schedule							•	+ -									
1.5.3	Feasibility Statement	+	+	4			2	2	+		+						 	
1.5.4	Appendix (27)	2	+	-					+		+	12					4	+
1.5.5	Pad for Snowmakers (no foundation)		1		2	2			1		1	12					1	
1.5.6	Foundations for Handle-tow at Tubing Hills (39)	1		8	12	20												
1.5.7	Details			8	12	16					1							
1.5.8	Cost Estimate for Study			2	4													
1.5.9	Footings for Lighting behind Retaining Walls			4		4												
1.5.10	QAQC		16									_						
		6	16	26	30	42	4	3	8			44		12			8	407 100
4.0	T (1.41)	\$887	\$3,343	\$4,537	\$3,505	\$5,729	\$741	\$673	\$1,065			\$4,106		\$1,718			\$834	\$27,139
1.6	Trail Alignment (28)	_	_	_									_				_	
1.6.1	Field Mark Trail Alignment Options (16)	2	4	2	2		8		1			12	8	24	12	12	2	

												ESTIMATE	D HOURS								
				PROJECT TASKS	Client Service Manager	Project Manager	Senior Structural Engineer	Structural Engineer	Senior Designer	Electrical - Lighting	Electrical - Power	Electrical Staff Engineer	Senior Geotech Engineer	Natural Resource s	Project Engineer	GIS	Landscape Architect	Survey Crew Chief	Survey Instrument Operator	Admin Tech	ESTIMATED COST
		1.6.2		Schedule Field Review													2				
		1.6.3		Field Review													8				
		1.6.4		Final Alignment Decision and Approval (69)												8	2				
				r man r mg. mont 2 colorer and r pprovar (co)	2	4	2	2		8					12	16	36	12	12	2	
					\$296	\$836	\$349	\$234		\$1,482					\$1,120	\$2,112	\$5,155	\$1,248	\$1,114	\$209	\$14,154
1	1.7			Public Involvement (70)	,		*			, , ,					* /	, ,	, , ,	, , -	* /		, , ,
-		1.7.1		Public Review		4											20				
		1.7.2		Council Review and Approval		4										4	2				
		1.7.3		Sub Consultant Attendance (71)																	
		1.7.3		Subtotal Hours		8										4	22				
				Subtotal Labor Cost		\$1,672										\$528	\$3,151				\$5,350
			1	Subtotal Labor Cost		\$1,072										\$320	φ3,131				\$5,550
2.0 Bid	Doc	cument	Prena	ration																	
	2.1	3		Data Collection																	
		2.1.1		Architecture (29)(30)																	
	- †	2.1.2	1	Civil(31)	8	16	1	1		1				1	24		20				
<u> </u>		2.1.3	<u> </u>	Topographic Survey(32) (63)				1						1			8	56	56		
		2.1.4	 	Geotechnical (33) (65) (66) (67) (68)			+			 			80				 				
		2.1.5	1	Electrical - Power (34)			1				2	4		1							
		2.1.6		Electrical - Lighting (35)						4	_	4									
		2.1.7		Mechanical(36)								-									
		2.1.8		Corrosion Protection Study (37)									2								
		2.1.9		Structural (38)																	
		2.1.10		Noise Study (40)																	
				Subtotal Hours	8	16				4	2	8	82		24		28	56	56		
	Ì			Subtotal Labor Cost	\$1,182	\$3,343				\$741	\$448	\$1,065	\$12,770		\$2,240		\$4,010	\$5,823	\$5,198		\$36,820
2	2.2			Plan Sheets									•						,		
		2.2.1		Title Sheet Signatures																	
		2.2.2		Site Plan Pump House Area (41)													12				
		2.2.3		Civil (42)(43)(44)(45)(46)(64)	4	12							20		140		12				
		2.2.4		Site & Grading (47)											40		24				
		2.2.5		Erosion Control Plan (48)										8	8						
		2.2.6		Electrical - Power (49)							8	20									
		2.2.7		Corrosion Protection (50)							_										
		2.2.8		Electrical - Lighting (51)						24	2	20	2								
		2.2.9		Mechanical (52)(59)																	
		2.2.10		Structural (53)			2	_	4				4				40				
		2.2.11		Retaining Wall (64)	4	40	8	6	4	24	10	40	8	0	100		12				
				Subtotal Hours Subtotal Labor Cost	\$591	12 \$2,507	10 \$1,745	6 \$701	8 \$1,091	\$4,447	10 \$2,242	40 \$5,327	34 \$5,295	\$1,160	188 \$17,546		60 \$8,592				\$51,244
-	2.3				\$39 I	⊅∠,50 /	Φ1,/40	\$/UI	\$1,U91	Ψ4,44 1	₽∠,∠4∠	φ5,321	φυ, ∠ 90	\$1,160	φ17,540		Ф0,392				Φ31,244
	2.3			Meetings Meetings (54)						3	3	3									
				Subtotal Hours						3	3	3									
				Subtotal Hours Subtotal Labor Cost						\$556	\$673	\$399									\$1,628
2	2.4			Project Manual						ΨΟΟΟ	Ψ3/3	ΨΟΟΟ									Ψ1,020
		2.3.1		Front End Sections (55)	2												12			4	
		2.3.2		Bidding Requirements (56)	2		1	1	1	1				1	1		12			2	
		2.3.3		Specifications (City of Edina)	2			1		8	10			1			8			4	
<u> </u>		2.3.4		Special Provision (64)	8		8	1		1	1			1			24			12	
		2.3.5		Pump Skid (59)	-		1				8									· -	
		2.3.6		Appendix (57)	2												24			2	
				Subtotal Hours	16		8			8	18						80			24	
				Subtotal Labor Cost	\$2,364		\$1,396			\$1,482	\$4,036						\$11,456			\$2,503	\$23,238
2	2.5			Opinion of Probable Cost																·	
		2.4.1		Cost Estimate	2	4				2	1	8	4		32		16			2	
				Subtotal Hours	2	4			_	2	1	8	4		32		16			2	
				Subtotal Labor Cost	\$296	\$836				\$371	\$224	\$1,065	\$623		\$2,987		\$2,291			\$209	\$8,901

PROJECT TARKS												ESTIMATE	ED HOURS								
3				PROJECT TASKS	Service		Structural					Staff	Geotech			GIS			Instrument		ESTIMATED COST
3	2 0 5	Diddina	a Accie	lance																	
1	3.0 1		ASSISI																		
No. 1.5 Notice of Headers and Justimes		0.1	3.1.1																		
3.11.2 Notes to biddens																				2	
3.7.2 Anterophysical Controlling 1.7.2 A																				2	
S 3 2 Value of Properties Securing Sec																				2	
1.10 1.10														_							
1.1.1.5 State Control 1.1.1.5 State				3.1.2.1 Watershed Permitting										2							
													0								
											2	4	0		•						
	-									8											
State Stat				3.1.3.4 Mechanical (59)								-									
State Stat																					
State Stat																					
St.16 Section Sectio			3.1.4										2								
S.1.5.1 Pergenar Technisher of Oliveria Award 12 24															8						
Subtrail Laber Cost																					
3.2				3.1.5.1 Prepare Tabulation of Bids																	
Subtoal Hours 12 24		2.2		3.1.5.2 Prepare Recommendation of Contract Award	12	24														2	
Subtoal Labor Cost		3.2								Ω	2	Ω	10	2	16					12	
Client Service Manager Project										-		_									\$14 376
Service Manager Mana				Cubicital Eudor Cost	ψ1,770	ψο,ο το				Ψ1,402	Ψ110	ψ1,000	Ψ1,001	ΨΣΟΟ	ψ1,430					Ψ1,202	Ψ14,010
Service Manager Mana		I			Client		Senior					Electrical	Senior	Natural	 				Survev		
Manager Mana																GIS			•		ESTIMATED
PROJECT COST SUMMARY						Manager		Engineer	Designer	Lighting	Power			S	Engineer		Architect	Crew Chief		Tech	COST
Subtotal Hours	PRC	JECT	COST	SUMMARY																	
Subtotal Hours	101	Eogeibi	lity Stu	dv /1)																	
Subtotal Labor Cost \$2,069 \$5,851 \$6,980 \$5,841 \$7,366 \$6,670 \$2,915 \$7,457 \$1,160 \$6,346 \$2,640 \$16,998 \$1,248 \$1,114 \$3,129 \$77,694.00 RRC Associates (GD)	1.01	easibi	ility Stu		14	20	40	50	E 4	26	12	EC			60	20	110	12	12	20	550
Subtotal Expenses							_							•							
RRC Associates (62)					\$2,009	\$5,651	\$6,960	\$5,641	\$7,300	\$0,070	\$2,915	\$1,451		\$1,160	\$6,346	\$2,040	\$10,090	\$1,240	\$1,114	\$3,129	
Torrent Engineering (58) (61)																					
HDR																					
Morton Trails																					
Morton Trails				General Corrosion																	\$2,700.00
2.0 Bid Document Preparation Subtotal Hours 30 32 18 6 8 41 34 59 120 8 244 184 56 56 26 92 92 121,831.00 Subtotal Expenses Subtotal Sub																					
Subtotal Hours 30 32 18 6 8 41 34 59 120 8 244 184 56 56 26 922				Subtotal																	\$138,131.00
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Subtotal Expenses								-	-					_							
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HDR				Soil Borings Braun Intertec																	\$14,040.00
Morton Trails \$8,800.00 Subtotal \$173,251.00 \$17			· · · ·	HDR																	\$4,320.00
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Subtotal Expenses \$200.00 Torrent Engineering (60) \$4,320.00 Subtotal \$18,895.00					\$1,773	\$5,015				\$1,482	\$448	\$1,065	\$1,557	\$290	\$1,493					\$1,252	\$14,375.00
Subtotal \$18,895.00																					\$200.00
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TOTAL COST ASSOCIATED WITH THIS PROPOSAL:	-			Subtotal	1			-													\$18,895.00
	тот	AL CO	ST ASS	OCIATED WITH THIS PROPOSAL:]															\$330,277.00

	ESTIMATED HOURS	ESTIMATED
PROJECT TASKS	Client Service Manager Service Manager Senior Structural Engineer Designer Designer Designer Service Manager Service Service Manager Service Service Manager Service S	COST

P:\AE\E\Edina\136169\1-genl\10-setup-cont\03-proposal\[05 06 16 Brmr THB- .xlsx]Hours-Costs

- (1) The format will follow established City of Edina format for Feasibility Study.
- (2) Basic information to include summary and address
- (3) To include existing CIP or existing plan information and process for public meeting.
- (4) 1. To include existing park use, boundaries and buffers, 2. Project Limits, 3. Project area with relationship with Club House and Parking.
- (5) 1. To include known public utilities and locations, 2. Existing available power, and use, 3. Private utilities locations and use, 4. Existing Irrigation System as builts provided by City.
- (6) Assumes existing pedestrian and vehicle traffic patterns will not be impacted, thus there is no additional traffic study effort included in this proposal.
- (7) To include existing location of trails and their use.
- (8) City to provide copy of existing permit status, permit quantities allowed, quantities used and water temperature.
- (9) To include existing lighting in the project area, parking area and Exterior Club House
- (10) City staff to provide list of existing staffing levels and existing equipment that will be utilized for Snowmaking
- (11) City to provide existing expenses and revenues for study.
- (12) RRC Associates will hired as a sub-consultant to SEH to complete this work
- (13) City to directly coordination with golf course architect if any change are needed due to WRA
- (14) Includes: 1, project limits and, 2, connections to existing Club House and Parking Area
- (15) To include; 1. any required upgrades to public or private utilities, 2. estimated additional power use, 3. changes to existing irrigation system.
- (16) SEH will field mark a primary alignment in the Area A with up to two altermatives in the asent area and the south area as noted on the Exhibit One, and a primary alignment in Area B with changes up to 25% of the total length of the primary alignment as noted on Exhibit One.
- (17) Trail alignments outside of the project area for non-snowmaking trails will be the responsibility of the City.
- (18) Torrent to provide; 1. additional power requirements and pumping needs, 2. Impacts to permit, 3. Water temperature impacts to snowmaking and possible solutions/costs, 4. snowmaking distribution layout, 5. Radon in water, we will need help/input from SEH on this.
- (19) Tubing area study to be limited to notes 28 and 29 on Exhibit A.
- (20) To include; 1. trail lighting needs, 2. Photometric graphic, 3. any recommended changes to existing course or exterior club house lighting, 4. any recommended changes to parking lot lighting.
- (21) HDR to provide results of noise data including a graphic representing the level of noise spill levels.
- (22) SEH to provide additional LIDAR information if needed to HDR graphic
- (23) General Corrosion to study existing soil conditions for conductivity.
- (24) To include recommendations for staffing and equipment addition require for Snowmaking and Groming Operations
- (25) RRC Associates will provide projected expenses and revenues.
- (26) To include design and construction contingencies, consultant fees, equipment costs.
- (27) To include; 1. Public meeting information, 2. Utility Information, 3. Existing Site Plan, 4. New Golf Course Plan, 5.
- (28) Trail Alignment Desgin Decision to be made by SEH, Morton Trails and City Staff.
- (29) Scope No Architecture work included. Pump House Architecture provided by Torrent.
- (30) City to provide as-built of existing pump house
- (31) Civil to include base mapping, aerial imaging, topographic mapping and site photos
- (32) Survey to include: 1. Gopher State One Call for design locate, 2. Topo in key areas, 3. Significant tree locations, 4. Field staking of preliminary alignment, 5. Soil Boring locations
- (33) Includes soil boring investigation (up to 14 borings), geotechnical evaluation, and technical memorandum summarizing investigation, evaluation and recommendations.
- (34) Review existing electrical infrastructure, existing public and private utilities, coordination and meeting with Xcel Energy, coordination with primary distribution, location of 3-phase power source.
- (35) Review existing light code for city, hours of operations and lighting impacts, provide a graphic of light spill area.
- (36) Survey of existing pumping equipment
- (37) General Corrosion report on existing soil conductivity.
- (38) Structural survey of existing pump house structure. (39) Lift location identified if included in the project.
- (40) Identify study area and set up data collection in field
- (41) Existing pump house modification (if needed) and new pump house plans, fencing, landscaping, equipment storage area.
- (42) Civil: Removals, Clearing and Grubbing, Tree Removal Plan, Construction staging area, and Access route plan
- (43) To include final trail alignment, to be staked and approved by city.
- (44) Tubing area to be limited to notes 28 and 29 on Exhibit A.
- (45) Pedestrian/Golfer Control Plan if Constrution Schedule is during golf season.
- (46) No pedestrian or vehicle traffic plan is included in this proposal
- (47) Site Grading; Pump house site and grading plan, general grading plan, retaining wall locations, Turf establishment, pruning details
- (48) Erosion Control Plan to include coordination with Watershed District, permitting, and development of Stormwater Pollution Prevention Plan (SWPPP).
- (49) Electrical Power to include main power needs, coordination with excel, pump skid power needs, power plan for pumping, power distribution for snowmaking.
- (50) A detail of cathodic protection will be developed if recommended by General Corrosion
- (51) Electrical Lighting Plan to include site, trail, pump house, service cabinet, transformer details.
- (52) Mechanical to include force main, pump house plan, snowmaking equipment pre-order.
- (53) Structural to include modifications to existing pump house and new pump house, Retaining wall design and review, lift if required.
- (54) Meeting with City staff review to include; 1. One review at 50% bid documents, One at 90% bid documents, Up to one additional.
- (55) Front End: Title Sheet, Certification Sheet, Table of Contents
- (56) Bidding Requirements; Bid Form, Instructions To Bidders, Advertisement for Bids
- (57) Appendix to include City of Edina standard plates, Permits, soil borings
- (58) Feasibility

Feasibility Items as applicable to Torrent expertise and the snowmaking system

Includes system capacity & snowmaking equipment recommendations, pump station mechanical & electrical design as related to the process equipment, and the distribution piping system

Power requirements

Water temperature impact and cooling options

- (59) Bid Docs Prep
- Includes pump station and distribution piping system mechanical design, plan sheets, bid docs
- (60) Bidding Assistance, for items pump station and distribution piping system

For items in 1.0 and 2.0 above.

					E	ESTIMATED	HOURS							ESTIMATED
	Client	Project Senior S	tructural Caniar	Flootrical	Flootrical E	Electrical	Senior	Natural		Landasana	Cumana	Survey	A almain	COST
PROJECT TASKS	Service Manager	Manager Structural Engineer	Engineer Designer	Lighting	Power E		Geotech Engineer	Resource Engineer	GIS	Architect	Survey Crew Chief	Instrument Operator	Admin Tech	0031

- (61) Includes cost for 1 site visit.
- (62) Financial Analysis, including size/depth of market, competitive analysis, and financial modeling (ticket an other reveneues, operating expenses). For Nordic only = \$9,400, for Nordic and Tubing = \$12,900. This also includes a trip to MN for a meeting.
- (63) Divide site into 5 areas of concern. All survey work will need to be done using the Total Station with a 2 man operation. Estimated 26 control Points, but most likely will need more in dense areas. Assuming borings, centerline alignment stakes and topo can be done with each trip. Additional time will be added depending on what's needed for specific trees within the corridor. A centerline shot, 15 ft and 30 ft left and right for 60 ft corridor for topo limits. Includes any significant grade breaks inside that corridor. Surveyors will be provided with a DXF map showing the corridor limits and centerline alignment for staking. Surveyors will also be provided with a .csv file for staking borings.
- (64) Includes signed plan sheets and special provisions for up to 2 modular block retaining walls.
- (65) Assumes geotechnical evaluation considers; up to 2 modular block retaining walls, booster station foundation, light pole foundations, tow machinery foundations, pipe subgrade/bedding, general earthwork.
- (66) Soil boring investigation will be performed by Braun Intertec using a rubber tracked geoprobe rig. Assumes proposed boring locations will be accessible to Braun, SEH staff, and utility locators. Braun drill crew will attempt to minimize any rutting or other damage to landscaping and lawns; however, Braun and SEH will not be responsible for repairs needed as a result of drilling operations.
- (67) Assumes the Park District will repair damage to the golf course resulting from the soil boring investigation.
- (68) The Park District understands that noise levels will be higher at the golf course on the days we are performing the soil boring investigation. The Park District will be responsible for communicating the potential for disruptive noise levels and vehicle activity to golf course users.
- (69) Final Alignment to be decided upon the conclusion of the field visit and graphically represented for a sign-off from City staff to move forward with the SEH team to start piping, electrical, grading plans.
- (70) SEH to attend up to: 1. One Park Commission Meeting, 2: One City Council Meeting, 3. Two on-site staff meetings, 4 City to reserve and hold meetings at Braemar Club House, 5. City to send out invitations to public meetings, distribute, collect and publish public comments.
- (71) Sub Consultant attendace for one public meeting and one additional meeting if needed for Torrent, RRC, HDR, and Morton Trails

SEH Hourly Billable Rates – Winter Recreation Area at Braemar Park

Classification - Office Staff	Billable Rate
Client Service Manager	\$147.76
Project Manager	\$208.95
Senior Structural Engineer	\$174.51
Structural Engineer	\$116.83
Senior Designer	\$136.40
Electrical Engineer - Lighting	\$185.28
Electrical Engineer - Power	\$224.22
Electrical Staff Engineer	\$133.16
Senior Geotech Engineer	\$155.73
Natural Resources Scientist	\$145.05
Project Engineer	\$93.33
Project GIS Analyst	\$131.99
Landscape Architect	\$143.21
Administrative Technician	\$104.31

Classification – Field Staff	Billable Rate
Survey Crew Chief	\$103.97
Survey Instrument Operator	\$92.83

