To prepare students for lifelong success through excellence in education



info@scasd.org — 814.231.1042

To: Board of Directors

From: Robert O'Donnell, Vernon Bock, Randy Brown, and Ed Poprik

Re: Playground Master Planning Update

Date: November 4, 2019

#### Recommendation

The administration is recommending three final playground schematic designs for Corl Street, Radio Park, and Spring Creek that have a mix of nature-based play options and traditional equipment. Each design includes a focus on accessibility and opportunities for students to swing, slide and climb.

This recommendation comes to you after a year and a half of research, community engagement, and planning to present the best possible playground designs for all of our students. Our recommendation includes a timeline that supports initial construction to begin in early May of 2020. Per the current schedule, this will allow for playground completion prior to the beginning of school in 2020.

Itemized cost estimates are attached to this recommendation and contain a piece-by-piece list of equipment for each location. In addition, Table A provides a summary of the estimated costs. Table B provides a listing comparing the play options and equipment proposed in each site plan.

The schematic designs will be presented as final designs (design development documents) for Board approval at the Dec. 2 or 16 meeting.

### **Updated site information**

Beginning in the summer of 2019 and continuing this fall, basketball hoops were installed at Corl Street, Radio Park and Spring Creek on the blacktop areas. Principals have also provided additional items like balls and cornhole games for recess play at each school to enhance the students' experiences while the final plan for playgrounds are developed.

In October, the principals at Corl Street, Radio Park, and Spring Creek met with their respective PTO's and faculty members to discuss the refined plans for each playground. Some of the feedback from these sessions was incorporated into the final designs.

Swing installation is scheduled for early November at Radio Park and Spring Creek, as this has been unexpectedly delayed from late October.

As we worked through the final design process, we were hoping to repurpose some existing equipment at each site. After further analysis, we learned that refurbishing equipment would not be cost effective, with the exceptions of a climber/slide at Corl Street and the rock climbing wall at Spring Creek. The Spring Creek item will be reinstalled in early November along with the swings, while the Corl Street item will be relocated with the work this summer. Taking into consideration community desire for more climbing structures, as well as safety concerns, we replaced the dome climbers with 17-foot tree climbing structures at all three locations. Additionally, a spinner structure was added at Radio Park to accommodate the larger number of students in that building.

As we evaluated plans on a site-to-site basis, we realized the plans were not comparable given student enrollment. Therefore we are considering adding play structures at Radio Park. (Table A, 2)

If approved, construction will begin in May, and all three projects are scheduled to be completed for the beginning of the 2020-2021 school year.

#### Project phasing and clarification of Phase I and II

When the district began the master planning process and started exploring nature based playgrounds, Metcalfe Architecture and Design, LLC developed the original plans. These conceptual drawings were high-level indications of what our playgrounds could look like and the types of things they might include.

Throughout the development, based on community input and costs, the final plans for Corl Street, Radio Park and Spring Creek took shape. Those original conceptual designs were whittled down to specific plans that could be implemented for the fall of 2020 and other possibilities that might be implemented in the future. This basically provides a Phase I, implementation for fall of 2020, and Phase II, other elements that could be included in the future.

During the process, we communicated to our communities that our playground master planning and implementation of new or updated playgrounds would begin with the three new elementary schools. Once those were complete, we would look at updating the playgrounds at the five remaining elementary schools and our three middle schools. Upon completion of Phase I at all

11 locations, the district will then evaluate our existing playgrounds and the master plan to determine what next steps (Phase II), if any, are necessary.

#### **Cost Estimates**

Cost estimates are provided in detail as an attachment to this update. Table A provides a summary of the cost estimates. These estimates include the construction cost portion of the project which will begin in May of 2020. As in other capital projects, a contingency has been included in the estimated costs to account for omissions and changes during design and construction. During the fall of 2019, basketball hoops have been installed at all three locations and swings will be installed in early November at Radio Park and Spring Creek.

Table A

	Spring Creek	Corl Street	Radio Park
Construction Cost (1), (2)	\$188,132	\$229,103	\$183,433
Design Cost Est.	50,722	50,722	50,722
Contingency	19,190	23,158	18,480
Swings/Basketball Hoops (1)	45,328	2,829	60,187
Grand Total	\$ 303,371	\$305,812	\$312,822

- (1) Construction costs for Corl Street include swings, as opposed to Spring Creek and Radio Park where they are separate projects.
- (2) The cost for the Radio Park project would increase if play structures are added as discussed.

These estimated costs reflect the most recent changes resulting from the review of faculty/staff and PTO's with the principals at each school community. The estimates align with the budget of \$250,000 per playground, which the design team had been assigned for construction cost. The total project costs are approximately \$300,000 after adding the design cost of \$50,000.

It should be noted that the cost of making these playgrounds accessible to all students is approximately 28% of the cost of construction and equipment, or on average \$60,000 per site.

# **Playground Components**

Table B provides a comparison of playground components included in the proposed designs for each school. Variations are due to site constraints and input from the respective communities, as well as available opportunities to reuse equipment.

Table B

Spring Creek	Corl Street	Radio Park
Kompan Swings	Kompan Swings	Kompan Swings
Kompan Robinia Tree Climber	Kompan Robinia Tree Climber	Kompan Robinia Tree Climber
Grass Mound	Grass Mound	Grass Mound
Kompan Embankment Slide	Slide Reused	Kompan Embankment Slide
Log Stepper Slope		Log Stepper Slope
Log & Boulder Climbing Area	Log & Boulder Climbing Area	
Log Mound	Log Mound	
Black Locust Posts		Black Locust Posts
	Kompan Parkour	Kompan Parkour
		Dynamo Cone Spinner
Log Stump Seats		Log Stump Seats

	Hillside Rock Slabs	
	Balance Logs	
Wood Bench		
Climber Re-used		

### History of playground master planning

During the summer of 2018, district administrators under direction by the Board of Directors developed an RFP for a playground master planning effort that incorporated nature-based play. The master planning effort was to prioritize playground construction at the three elementary schools undergoing construction — Corl Street, Radio Park, and Spring Creek — while also addressing a long-range plan to update all elementary playgrounds in the future. After careful consideration, the Board of Directors chose Metcalfe Architecture and Design, LLC as the firm to lead the district's playground master planning efforts.

The Metcalfe team began its work in the district near the end of October 2018 by conducting a playground audit at each of our elementary schools. The audit included an interview with the principal as well as a survey of the playground area and an inspection/safety audit of the existing equipment.

Our first meeting with the district Playground Master Planning Task Force and Metcalfe design team was held Jan. 16, 2019 from 6-8 p.m. in the Panorama Village board room. In attendance were 45 members representing parents, faculty and staff from each elementary and middle school, building principals, district administration, school board members, and representatives from the Finance and Facilities CAC.

At this meeting, the Metcalfe team updated the Task Force in regards to the playground audits that were conducted from their fall visits to each elementary school, and then engaged the Task Force in discussion around the types of play elementary and middle level students choose. This discussion included current engagement and future opportunities, as well as personal memories. The Metcalfe team began to generate the master plan for the playground process from the collected materials that night.

Also in mid-January, the district surveyed parents and faculty for input on the types of play opportunities they desired for their children and students at recess. During that same time period, information was collected from all elementary students in the district regarding their desire for play experiences at recess. Students were given a choice in how they provided this

information — either in writing or as a graphic organizer. Both the survey results and student feedback were provided to the Metcalfe design team, which used it to inform their master planning designs.

The evening of March 25, 2019, an evening session was held with students and parents from each elementary school in the boardroom of Panorama Village to interact with the Metcalfe team. At this meeting, parents were updated on further master planning efforts while groups of students created playground structures from provided materials. These playground structures, collected at the end of the night by the Metcalfe team, were used to inform further design efforts.

During the month of April 2019, five evening community input sessions were held in the boardroom at Panorama Village for the Metcalfe team to present initial schematic designs to each school community. Those in attendance had the opportunity to pose questions and provide input to the Metcalfe team. The Metcalfe team gathered feedback from those sessions to further refine schematic designs.

During the month of May, district administration participated in several meetings with the Metcalfe design team to incorporate traditional play opportunities into the schematic designs for the three sites under construction. This was in direct response to input from our community. We also discussed a tentative budget of \$250,000 for each site.

# **Elementary Playground Update History**

Date	Meeting	Info/Discussion	Action
August 2, 2018	RFP	Metcalfe response to SCASD RFP	
September 24, 2018	Board		Approve the contract with Metcalfe Architecture & Design, LLC for Playground Master Planning services as presented
January 21, 2019	Board	Elementary Playground Master Planning Update	
March 25, 2019	Playground Design Meeting 2	Metcalfe Design Presentation	
April 8, 2019	Board	Playground Planning Update and Implementation	

		Contract	
May 16, 2019	Joint Facilities and Finance	Playground Update	
May 20, 2019	Board	Playground Master Plan Process	
June 3, 2019	Board	Playground Master Planning	Approve contract with Metcalfe Architecture and Design for architecture and engineering services related to implementation of the playground master plan
August 5, 2019	Board	Playground Update	
August 14, 2019	Facilities and Grounds	Playground Update (not part of agenda, but asked by a Board member)	
August 19, 2019	Board	Update on Elementary and High School Projects	
September 5, 2019	Facilities and Grounds	Playground Update	
September 9, 2019	Board	Playground Update	
October 7, 2019	Board	Playground Update	

# **Upcoming planned actions**

Date	Meeting	Info/Discussion	Action
November 4, 2019	Board		Schematic Design update
November 7, 2019	Facilities and Grounds		Schematic Design update
November 18, 2019 (1)	Board	Design Development	
December 2 or 16, 2019 (1)	Board		Design Development

March 2020	Board	Bid Documents
April 2020	Board	Award Bids (construction begins in May 2020)

(1) A design development update will occur on November 18 or December 2, depending upon document availability. Board action could then take place at the following meeting, December 2 or 16.



- Stacked Log Mound - Vestibular, Proprioceptive, Ability to sit, Creativity
- Log Scramble Critical Thinking, Confidence, Creativity, Collaboration
- **Balance Beam** - Mental Health, Emotional Regulation
- Climber - Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- Climber with Slide (Reused) - Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit, Creativity
- **Parkour** - Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- **Belt and Group Swings** - Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- **Stone Slab Seating** 
  - Mental Health, Emotional Regulation



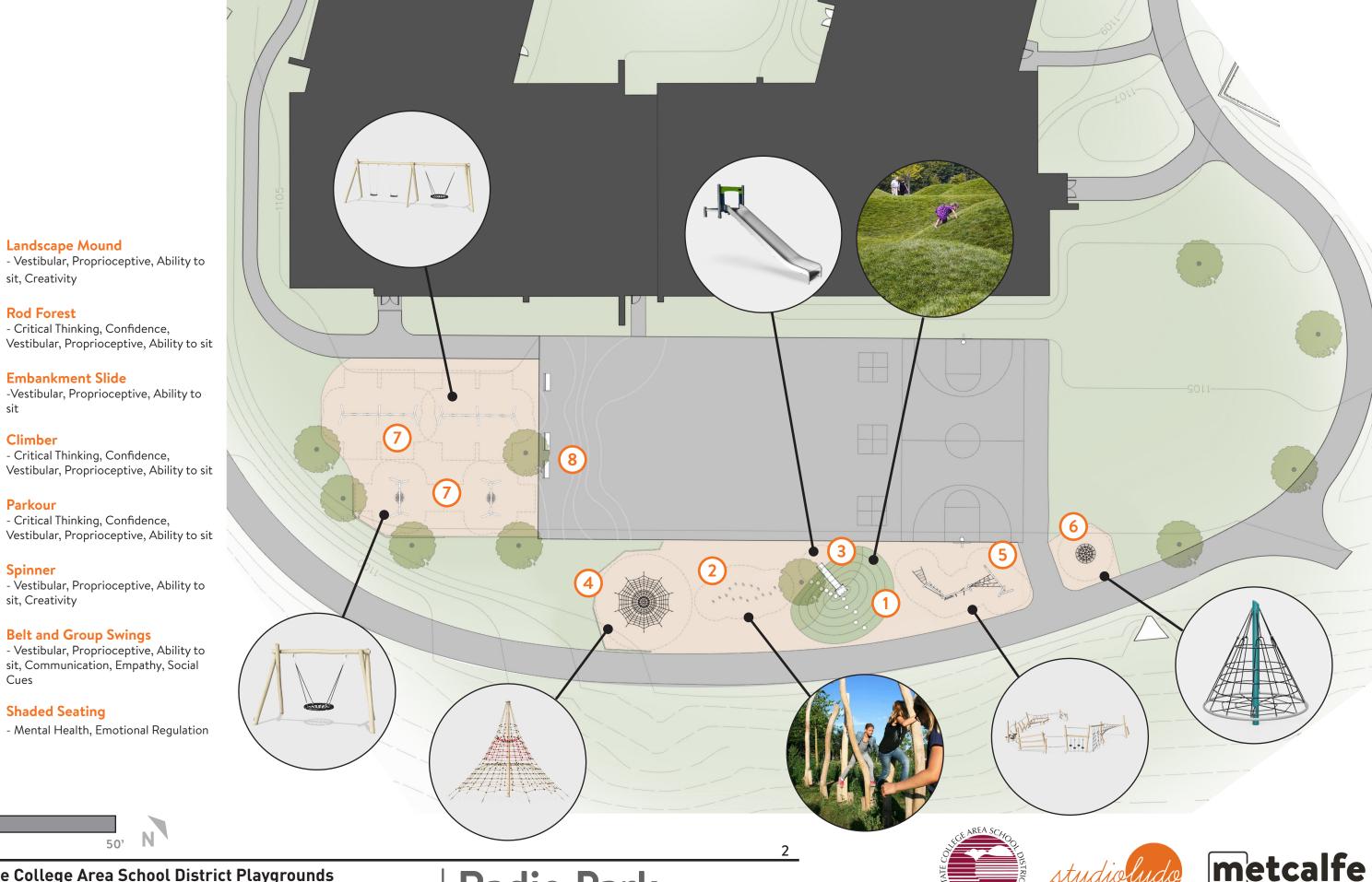












State College Area School District Playgrounds

November 4, 2019

Landscape Mound

**Embankment Slide** 

- Critical Thinking, Confidence,

- Critical Thinking, Confidence,

- Critical Thinking, Confidence,

**Belt and Group Swings** 

sit, Creativity

**Rod Forest** 

Climber

**Parkour** 

**Spinner** 

Cues

sit, Creativity

**Shaded Seating** 

Radio Park



**State College Area School District Playgrounds** 

November 4, 2019

**Rod Forest** 

sit, Creativity

sit, Creativity

sit, Creativity

Climber

Log Scramble

- Critical Thinking, Confidence,

- Critical Thinking, Confidence,

Creativity, Collaboration

**Belt and Group Swings** 

-Critical Thinking, Confidence,

- Critical Thinking, Confidence,

Climber (Reused)

**Embankment Slide** 

sit, Creativity

Landscape Mound

# Spring Creek Elementary Play Area

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

	Description	Notes	qnt	unit	size		unit cost	ex	tended cost	Tot	tal
Constructi	on & Implementation	,						_			_
											_
I Mobiliza	ation										_
	obilization - Provide on-site mobilization, layout, submittals, port-a- otty, etc.	approx 10% of project cost minus approx. previous construction and school purchases	1	ls		:	\$18,400.00		\$18,400.00		
	Mobilization Total							L		\$ 18,4	40
3 50 5								<u> </u>			_
2 Site Pro								<u> </u>		<u> </u>	_
	onstruction Entrance - Furnish, install, and remove rock construction strance for erosion and sediment control.		1	ls		•	7,000.00	\$	7,000.00		
	rosion Control Allowance- Allowance to furnish, install and remove			.5		Ψ	7,000.00	Ψ	7,000.00	<del></del>	_
	osion control measures		1	ls		\$	7,500.00	\$	7,500.00		
3 Pr	rotect Existing Equipment (#01)					Ψ.	7,500.00	_	7,500.00		_
	<b>3</b> 11 (** )	n.i. equipment outside of construction fence	2	ea		\$	100.00	\$	200.00	1	
4 Tr	ree Protection - Provide protection for existing tree and root	n.i. trees outside of construciton	-			*		Ť			_
	ructures during construction	fence	1	ea		\$	200.00	\$	200.00	1	
	te Protection Fence - Furnish and install 4' orange		422	lf		\$	3.00	\$	1,266.00		_
	Site Prep Total									\$ 16,1	16
3 Kompar	n Robinia Tree Climber NR0834 (#03)*										
I Tr	ree Climber NRO394	Costars 20% discount	I	ea		\$	14,928.00	\$	14,928.00		
2 Sh	ipping		I	ea		\$	1,763.00	\$	1,763.00		
3 Ins	stall, with footings	\$6,976 / 0.9 (no discount) x 1.2	I	ea		\$	9,301.00	\$	9,301.00		
	Kompan Robinia Tree Climber Total									\$ 25,9	99
4 Black Lo	ocust Posts (#08)	Per 10/15 Robi & designer email									_
	to 10" diameter x 8.5' plus length		10	ea		\$	300.00	\$	3,000.00		_
	to 10" diameter x 10.5' plus length		10	ea		\$	360.00	\$	3,600.00		_
	to 10" diameter x 1.5' plus length		10	ea		\$	48.00	\$	480.00		_
	to 10" diameter x 2.0' plus length		10	ea		\$	72.00	\$	720.00		_
	ipping	Includes contractor transport from Corl shipper drop	ı	ea		\$	1,960.00	\$	1,960.00		_
6 Ins	stall including hardware purchase & assemble, footings	Allowance, pending final attachment/install detail	20	ea		\$	310.00	\$	6,200.00		
	Black Locust Posts Total							<u> </u>		\$ 15,9	96
5 Log Stu	imps (#09)							$\vdash$			_
	og Stumps - Furnish and install 12-18" diam, 12-18" tall set on concrete										
	undations to frost line, on gravel drainage layer		7	ea	<u></u>	\$	300.00	\$	2,100.00		
	Log Stumps Total									\$ 2,1	10
6 1 09 540	ppers on Slope	revised per 10/2 Metcalfe Email						$\vdash$		<del>                                     </del>	
	og steppers - Furnish and install log steppers (12" - 18" diameter),	,						<u> </u>		$\vdash$	_
an	ichor to hillside with rebar, lag screw to one another (or set on one one one one one one one one one		П	ea		\$	300.00	\$	3,300.00		
<del>     </del>	Log Steppers on Slope					Ė		Ė		\$ 3,3	30
-+-+	=08 410Fb2:3 011 Globe				ļ	Ь		—		, -,-	_

# Spring Creek Elementary Play Area

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

### 2019 Preliminary Opinion of Cost - SCHEMATIC DESIGN PHASE

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		Description	Notes	qnt	unit	size		unit cost				T
7	Woo	d Bench	Hotes	qiit	ume	3120		umi cost	exi	ended cost		Totals
_		Furnish and install wood bench - Allowance										
				2	ea		\$	2,000.00	\$	4,000.00		
		Wood Bench Total									\$	4,00
8	Log 8	& Boulder Climbing Area (#07)	at 9" EWF area									
	I	Climbing Logs- Furnish and install (2) 24" x 16', (4) 18" x 10', & (1)										
		24"x10' climbing logs anchored together, countersunk		- 1	ls		\$	7,000.00	\$	7,000.00		
		Drainage Gravel - Furnish and install 6" min. (9" estimated) compacted										
		aggregate (on top of EWF 3" Drainage Gravel) final design TBD	280 sf @ 9" /27 @1.4tons/cy (under									
		(excavation is in EWF section)	the logs)	П	tons		\$	45.00	\$	495.00		
	3	Geotextile Fabric - furnish and install	approx sf of zone	400	sf		\$	0.50	\$	200.00		
		Log Climbing Area Total									\$	7,69
9		Mound #06					1					
		Log Mound - Furnish and install logs (12"-18" dia., 9 long), 22' wide x 4.5' h., mounded together horizontally to form hill, lag screw logs	Mound: 9'w x 4.5'h x 22'l (17 logs w.				1					
		together, rebar anchor base logs to frost line	× 3.5logs h. minus 3	57	ea		\$	250.00	\$	14,250.00		
	2	Excavate and dispose soil - 6" depth	200sf @ 6" /27 @ 1.33	5	су		\$	40.00	\$	200.00		
		Log Mound Drainage Gravel - Furnish and install 6" compacted			-/		Φ	₩.00	ψ	200.00		
	3	aggregate base and geotextile fabric	200sf @ 6" = 100cf = 3.7cy = 5t	5	tons		\$	45.00	\$	225.00		
	4	Geotextile Fabric - furnish and install	22' X 9' + approx. 10%	220	sf		\$	0.50	\$	110.00		
		Log Mound Total									\$	4,78
10		neered Wood Fiber - 9"	area of log mound not included									
	I	Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal	5723sf @ 12" depth @ 1.33x	282	су		\$	40.00	\$	11,280.00		
	2	Mulch Safety Surface - Furnish and install Engineered Wood Fiber			-7		Ψ	10.00	Ψ	11,200.00		
	_	(EWF) at 9" depth	5723sf @ 9" depth @ 1.33x	211	су		\$	70.00	\$	14,770.00		
	3	Drainage Stone - Furnish and install 3" compacted aggregate base and	5723sf @ 3" depth / 27 @ I.4									
		geotextile fabric	·	74	tons		\$	45.00	\$	3,330.00		
	4	Geotextile fabric - furnish and install- 2 layers	5723sf+approx 5% x2	12,020	sf			\$0.50	\$	6,010.00		
		9" Engineered Wood Fiber									\$ 3	35,39
П	Retai	ning Assembly (#14)										
		6x6 non-CCA pressure treated, heights per Schem. Grading plan: one	Excludes retaining assembly at swings									
	•	timber high along walkway; priced as edging assembly	and rock blocks, per 10/21/2019									
			instruction	52	lf		\$	20.00	\$	1,040.00		
		Retaining Assembly Total									\$	1,04
12		erdrainage at EWF and Retaining Walls Allowance - Underdrainage at low areas of EWF & retaining walls, plus	Allowance (panding dd				-					
	1	Allowance - Underdrainage at low areas of EVVF & retaining walls, plus discharge / connector pipes	Allowance (pending underdrainage design)	215	lf			\$36.00	\$	7,740.00		
		Underdrainage Total					1	7-0.00	Ť	.,	\$	7,74
							1				Ė	
13	Grass	s Mound	revised per 10/2 Metcalfe Email									
	I	Grass Mound - Furnish and install 6" topsoil on mound	955sf @ 6" @ 1.33x / 27	24	су		\$	95.00	\$	2,280.00		
	2	Move excavated soil to mound base, compact										
			1/3 x 955sf x (6' extended cone minus 6") @1.33 / 27	86	~			FF 00	_	4 = 2 2 2 2 2		
		N			су		\$	55.00	\$	4,730.00		
		Native grass plugs on half of mound, final design TBD	450 sf	520	ea		\$	7.00	\$	3,640.00		
	4	Sod on mound			ls		\$	700.00	\$	700.00		
		Grass Mound Total					1				Þ	11,35
	.,	pan Embankment Slide*	revised per 10/2 Metcalfe Email				1					
14	Komi		Costars discount	1	ea		\$	6,100.00	\$	6,100.00		
14		IKompan Embankment Slide				i	Ψ	0,100.00	ΙΨ	5,100.00		
14	I	Kompan Embankment Slide Shipping		ı	ea		\$	512.00	\$	512 00		
14	2	Shipping Install		I	ea ea		\$	512.00 2,626.67	\$ \$	512.00 2,626.67		

# Spring Creek Elementary Play Area

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

### 2019 Preliminary Opinion of Cost - SCHEMATIC DESIGN PHASE

.

	Description	Notes	qnt	unit	size	unit cost	exte	ended cost	Totals
15 P	Planting				211 1		—		
	I Red oak and sugar maple trees		9	ea	3" cal	\$ 875.00	) \$	7,875.00	
	2 River birch trees				1.5"-2" cal,				
					or 6-8'				
			4	ea	clump	\$ 650.00	) \$	2,600.00	
	3 Allowance for Grading and Reseeding - Allowance to provide labor and								
	equipment to grade and reseed areas of the site disturbed during								
	construction		I	ls		\$ 4,500.00	) \$	4,500.00	
	Planting Total								\$ 14,97
	Project Subtotal								\$188,13
Г	Design Contingency		3.0	%			+-		\$5,6
	Subtotal						+		\$193,77
-	Construction Contingency		5.0	%			+-		\$9,6
$\dashv$	Subtotal				<del> </del>		+-		\$203,46
		Assumes school dept equipment			<del>                                     </del>		+-		Ψ203,40
li li		purchase before price increase	1.0	%					\$2,0
	Subtotal						+		\$205,49
	Construction Bond (n.i. school dept purchases)		1.0	%			+		\$1,8
_	Project Total	-		,,			+-		\$207,32
		Pending cost of purchased					+-		\$207,32
P		replacement parts							\$44,4
	GRAND TOTAL						+		\$251,75
	* School district to purchase all parts, accessories and delivery, and coordinate delivery to site of all play equipment (to receive discount from manufacturers).								
E	Exclusions								
	Design & Engineering, Regulatory Submissions								
	Zoning/Soil Erosion & Sedim. Control/Construction Permitting & Fees						1		
	Lighting						1		
	Signage, Donor Recognition Signage						1		
	Irrigation						1		
	Phased Construction or Delays								
N	Note: Items are Furnish and Install unless otherwise noted								
Altern	nates						1		
							1		
	Edging Assembly (#13)						1		
AE	I 6x6 non-CCA pressure treated, with rebars	Note: LF may vary according to final scope and current construction; Add	150	lf		\$ 20.00	\$	3,000.00	
AE		\$10/LF if installing after the EWF							
AE	:	\$10/LF if installing after the EWF	150	-		<b>T</b>	+		\$ 3.00
AE		\$10/LF if installing after the EVVF	130			*	<del>                                     </del>		\$ 3,000

10/24/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

		Description	Notes	qnt	unit	size	unit cos	_	extended cost	_	Totals
Con	struc	 ction & Implementation						+		-	
1		F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						$\dashv$			
╗	Mohil	l lization						+		-	
-	I	Mobilization - Provide on-site mobilization, layout, submittals, port-a-potty, etc.	approx 10% of construction budget (\$250k minus approx, previous construction and school purchases within budget)	ı	ls		\$20,300	.00	\$20,300.00		
		Mobilization Total								\$ 7	20,30
2	Site	B						_		<u> </u>	
		-								<u> </u>	
	I	Construction Entrance - Furnish, install, and remove rock construction		1	ls		¢ 7000	00	* 700000		
		entrance for erosion and sediment control.			13		\$ 7,000	.00	\$ 7,000.00	├─	
	2	Erosion Control Allowance- Allowance to furnish, install and remove erosion control measures		ı	ls		\$ 7,500	.00	\$ 7,500.00		
	3	Protect Existing Equipment (#01)	as indicated, plus basketball hoop	2	ea		\$ 25	.00 :	\$ 50.00		
	4	Tree Protection - Provide protection for existing tree and root	r				ψ 23	-	- 50.00	<del>                                     </del>	
		structures during construction		3	ea				\$ 600.00	<u> </u>	
	5	Site Protection Fence - Furnish and install 4' orange		380	lf		\$ 3	.00	\$ 1,140.00	<u> </u>	
		Site Prep Total						$\perp$		\$ 1	16,29
								$\dashv$		<u> </u>	
3		olition	z men, z day @ 4050/day -							<u> </u>	
		Demo Existing Structures - as indicated on plan	\$2600 Machine @ 2 day @\$350/day = \$700	ı	la.		<b>4.300</b>	00			
		Demolition Total	Dump fee = \$1000	'	ls		\$ 4,300	.00	\$ 4,300.00	\$	4,30
4	Balan	nce Logs (#10)									
	I	Balance Logs - Furnish and install balance logs (12" - 18" diameter), +/- 16If each		1	ls		\$ 2,250	.00	\$ 2,250.00		
		Balance Logs Total									2,2
5		& Boulder-Climbing Area (#07)	at 9" EWF area					$oldsymbol{\perp}$			
	I	Climbing Logs- Furnish and install (2) $24" \times 16'$ , (2) $24" \times 14'$ , & (2) $18" \times 10'$ climbing logs anchored together, countersunk		I	ls		\$ 7,000	.00	\$ 7,000.00		
	2	Drainage Gravel - Furnish and install 6" min. (9" estimated) compacted aggregate (on top of EWF 3" Drainage Gravel) final design TBD	280 sf @ 9" /27 @ I .4tons/cy (under the logs)	Ш	tons		¢ 45	00	t 40F00		
	2	(excavation is in EWF section)  Geotextile Fabric - furnish and install	approx sf of zone	400	sf			.50	\$ 495.00 \$ 200.00	₩	
	3	Log Climbing Area Total	-FF. 37. 31. 31. 20110	.50	31		φ 0	30 3	₽ ∠00.00	\$	7,69
		<u> </u>						+		Ė	<u> </u>
6		n Grass Mound (#8)						1			
	Ι	Grass Mound - Furnish and install topsoil on mound 31' $\times$ 13' ellipse $\times$ 2'h	306sf @ 6" @1.33x	8	су		\$ 95	.00	\$ 760.00		
		Move excavated soil to mound base, compact, incl to 12" below finished grade due to existing mulch	Ellipse mound 306sf x 2.5' = 765 cf @ 1.33x = 1017cf = 38cy minus 6" topsoil	30	су		\$ 55	00 5	\$ 1,650.00		
	3	Sod on mound	306sf + approx 10% waste	ı	ls		\$ 700			$\vdash$	
		South Grass Mound Total	* *				, .50	+	, : : : : : : : : : : : : : : : : : : :	\$	3,11
		Journ Grass Fround Fotal	i			1				Ψ.	-,

10/24/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

		Description	Notes	qnt	unit	size	L	unit cost	ex	tended cost		Totals
7	Nort	h Grass Mound (#9)										
	I	Grass Mound - Furnish and install topsoil on mound 34' x 20' ellipse x	E18 of @4"door @1 22:	13	-			07.00	_			
		3'h	518 sf @6"deep @1.33x	13	су		\$	95.00	\$	1,235.00		
	2	Move excavated soil to mound base, compact, incl to 12" below finished	Ellipse mound 518sf x 3.5' =									
		grade due to existing mulch	1813 cf @ 1.33x = 2411cf =									
			89cy minus 6" topsoil	76	су		\$	55.00	\$	4,180.00		
	3	Sod on mound	5186sf + approx 10% waste									
				ı	ls		\$	750.00	\$	750.00		
		North Grass Mound Total									\$	6,16
8		de Rock Slabs (in mound #09)										
	I	Excavation - n.a. (installed during mound placement)							\$	-		
	2	3 Stone Slabs- Furnish and install 4'x6'x1.5' thk stone slabs	rough bluestone type. 3@									
			(4x6x1.5')=108cf = @170 / 2000	9			_					
				,	tons		\$	450.00	\$	4,050.00		
	3	Boulder Aggregate Base - Furnish and install 6" compacted aggregate	3@4'x6'x0.5'= 36cf = 1.33cy = 1.86 tons	2	tons		_	45.00				
		base PA 2A		2	tons		\$	45.00	\$	90.00		
		Hillside Rock Slabs Total									\$	4,14
0	Log	 Mounds (#06)										
,	_		M 14 6 45 10 0									
	'	widths, mounded together horizontally to form hill, lag screw logs	Mound: 6' w @ 4.5'h, 10' w @ 4'.5'h, assume 15" logs formula:									
		together, rebar anchor base logs to frost line	5logsx3.5logs-3=15 logs plus									
			8logsx3.5logs-3=25	40	ea		\$	250.00	\$	10,000.00		
	2	Excavation and disposal - assumed just mulch	150sf @ 6" /27 @1.33	4	су		\$	20.00	\$	80.00		
		Re-grading under log mound	<u> </u>	· ·	ls		\$	200.00	\$	200.00		
		Log Mound Drainage Gravel - Furnish and install 6" compacted		•	.,		Ψ	200.00	Ψ	200.00		
	4	aggregate base	150sf @ 6" /27 @1.5 tons/cy	4	tons		\$	45.00	\$	180.00		
	Ç	Geotextile Fabric - furnish and install	150sf +10% ×2	330	sf		\$	0.50	\$	165.00		
	,	Log Mound Total			3,		φ	0.30	φ	103.00	¢	10,62
		2061.00110.10021				1	ĺ		1			,
10	Renla	sce Playworld Challenger Stairs & Climbing net, re-assemble (#0	1)*									
10		ace Playworld Challenger Stairs & Climbing net, re-assemble (#0	1)*									
10		Playworld Challenger Stairs and Climbing Net, hardware, for existing	1)* school discount price	1	ea		\$	3,843.00	\$	3,843.00		
10	ı		,	-	ea ea		\$	3,843.00 400.00	\$	3,843.00 400.00		
10	l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance	,				<u> </u>		_			
10	l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment	,				<u> </u>		\$			
10	l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and	school discount price	I	ea		\$	400.00	\$	400.00	\$	7,24
10	l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)	school discount price	I	ea		\$	400.00	\$	400.00	\$	7,24
	la Ib	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)	school discount price	I	ea		\$	400.00	\$	400.00	\$	7,24
	la lb	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total	school discount price	I	ea		\$	400.00	\$	400.00	\$	7,24
	la lb	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*	school discount price	I	ea		\$	400.00	\$	400.00	\$	7,24
	la Ib	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt	school discount price	I	ea ea		\$	400.00 3,000.00 6,039.00	\$	400.00 3,000.00 6,039.00	\$	7,24
	la lb Kom	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt 1 Basket (#05)  Shipping, partial load	school discount price	1	ea ea ea		\$ \$	400.00 3,000.00 6,039.00 588.00	\$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00	\$	7,24
	la lb Komp	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load  Install, with footings	school discount price	1	ea ea ea		\$	400.00 3,000.00 6,039.00	\$ \$ \$ \$	400.00 3,000.00 6,039.00	\$	7,24
	la lb Komp	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load  Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I	school discount price	1	ea ea ea		\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00	\$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00	\$	7,24
	la la lb Kom	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load  Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03)	school discount price  Costars 10% discount	1 1 1 1 2	ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00	\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00	\$	7,24
	I la lb Kompl l la lb 2 2a	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03)  Shipping, partial load	school discount price  Costars 10% discount	1 1 1 1 2 2	ea ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00	\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00	\$	7,24
	I la lb Kompl l la lb 2 2a	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt 1 Basket (#05)  Shipping, partial load  Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include 1 ADA harness swing (#03)  Shipping, partial load  Install, with footings	costars 10% discount  Costars 10% discount	1 1 1 1 2	ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00	\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00		
	I la lb Kompl l la lb 2 2a	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03)  Shipping, partial load	costars 10% discount  Costars 10% discount	1 1 1 1 2 2	ea ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00	\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00		
	Komp I la lb 2 2a 2b	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03)  Shipping, partial load Install, with footings  Kompan Swings Total	costars 10% discount  Costars 10% discount	1 1 1 1 2 2	ea ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00	\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00		
	Kompli la 2a 2b	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05) Shipping, partial load Install, with footings  Double Swings - (I) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03) Shipping, partial load Install, with footings  Kompan Swings Total  pan Parkour*	costars 10% discount  Costars 10% discount	1 1 1 1 2 2	ea ea ea ea ea		\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00	\$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00		
	Kompli la 2a 2b	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05)  Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03)  Shipping, partial load Install, with footings  Kompan Swings Total	costars 10% discount  Costars 10% discount		ea ea ea ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00 484.00 2,720.00	\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00 5,440.00		
	Komp I la 2b Komp I l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05) Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03) Shipping, partial load Install, with footings  Kompan Swings Total  pan Parkour*  Parkour 004 - Furnish Kompan Robinia Parkour 004 (#04)	costars 10% discount  Costars 10% discount	1 1 1 1 2 2	ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00	\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00		
	Komp I la 2b Komp I l	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05) Shipping, partial load Install, with footings  Double Swings - (I) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03) Shipping, partial load Install, with footings  Kompan Swings Total  pan Parkour*	costars 10% discount  Costars 10% discount		ea ea ea ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 484.00 2,720.00	\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00 5,440.00		7,24
	Komple Land Land Land Land Land Land Land Land	Playworld Challenger Stairs and Climbing Net, hardware, for existing disassembled equipment Shipping allowance Re-assemble (remove rusted hardware), with footing for stairs (and post?)  Replace/Reassemble Challenger Total  pan Swings*  Combo Swings Robinia NRO912 - Robinia Double Swing Combo 2 Belt I Basket (#05) Shipping, partial load Install, with footings  Double Swings - (1) Robinia NRO924 Double Swing 4 Belts include I ADA harness swing (#03) Shipping, partial load Install, with footings  Kompan Swings Total  pan Parkour*  Parkour 004 - Furnish Kompan Robinia Parkour 004 (#04)	costars 10% discount  Costars 10% discount		ea ea ea ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 4,905.00 484.00 2,720.00	\$ \$ \$ \$ \$ \$	400.00 3,000.00 6,039.00 588.00 3,350.00 9,810.00 968.00 5,440.00		

10/24/2019

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Site Landscape

Project #18758

	Description	Notes	qnt	unit	size		unit cost	ext	tended cost	<u> </u>	Totals
13 h-	mpan Robinia Tree Climber NR0834*							$\vdash$		$\vdash$	
13 KO	Tree Climber NRO394	Costars 20% discount	1	ea		•	14 929 00	-	14,928.00		
	2 Shipping, partial load	Costairs 20% discount	i	ea		\$	14,928.00	\$	1,671.00	<u> </u>	
	3 Install, with footings		'	ea		<del>Ľ</del>	1,671.00	Ľ.	-	_	
	<u> </u>		'	ea		\$	9,301.00	\$	9,301.00	_	25.00
-	Kompan Total							$\vdash$		_	25,90
I4 En	gineered Wood Fiber - 12" (#11)							$\vdash$		_	
	Excavation - Provide labor and equipment for grading, excavation,	Assume 9" additional depth						$\vdash$			
	hauling and soil disposal	needed: 1342sf - 150sf at log						l			
		mound @ 9" /27 @ 1.33x	44	су		\$	40.00	\$	1,760.00		
	2 Excavation of Wood Chips - Provide labor and equipment for	Assume 6" depth of chips:									
	excavation, hauling and recycling	1342sf @ 6" /27 @1.33	33	су		\$	20.00	\$	660.00		
	3 Mulch Safety Surface - Furnish and install Engineered Wood Fiber	1342sf @ 12" depth /27									
	(EWF) at 12" depth	@1.33x	66	су		\$	70.00	\$	4,620.00		
	4 Drainage Stone - Furnish and install 3" compacted aggregate base	1342sf @ 3" /27 @ 1.4tons/cy	17	tons		\$	45.00	\$	765.00		
	5 Geotextile fabric - furnish and install- 2 layers	1342 +5% for edge/waste x2	2,818	sf			\$0.50	\$	1,409.00		
	12" Engineered Wood Fiber Total									\$	9,21
I5 En	gineered Wood Fiber - 9"	not under 150sf log mound									
	I Excavation of Soil - Provide labor and equipment for grading, excavation,	Assume 6" additional depth						l			
	hauling and soil disposal (to 12" below top of exist mulch)	needed: 7741 sf @ 6" /27						l			
		@1.33	190	су		\$	40.00	\$	7,600.00		
	2 Excavation of Wood Chips - Provide labor and equipment for	Assume 6" depth of chips: 7741	100					l			
	excavation, hauling and recycling	sf @ 6" /27 @1.33	190	су		\$	20.00	\$	3,800.00		
	3 Mulch Safety Surface - Furnish and install Engineered Wood Fiber	7741 sf @ 9" depth @ 1.33 /27	286	су		\$	70.00	•	20.020.00		
	(EWF) at 12" depth		200	cy.		Þ	70.00	<b>→</b>	20,020.00	_	
	4 Drainage Stone - Furnish and install 3" compacted aggregate base	7741 sf @ 3" /27 @ 1.4tons/cy	301	tons		\$	45.00	\$	13,545.00		
	5 Geotextile fabric - furnish and install- 2 layers	7741 sf +5% for edge/waste x2	16,256	sf			\$0.50	\$	8,128.00		
	12" Engineered Wood Fiber Total									\$ 5	53,09
I 6 Re	taining Assembly (#14)										
	I 6x6 non-CCA pressure treated, with rebars and tiebacks, incl. drainage	n.a. per 10/17/19 Schematic									
	stone and geotextile behind wall - furnish and install	Grading Plan	0	sf		\$	45.00	\$	-		
	Retaining Assembly Total							<u> </u>		\$	
								<u> </u>			
I7 Un	derdrainage at EWF and Retaining Walls							$\vdash$		<u> </u>	
	Allowance - Underdrainage at low areas of EWF & retaining walls, plus	Allowance (pending underdrainage design)	150	lf			<b>#37.00</b>		E 400 00		
_	discharge / connector pipes  Underdrainage Total	under dramage design)	130	-			\$36.00	\$	5,400.00	\$	5,40
-	Onder dramage Total							$\vdash$		<b>P</b>	3,40
								$\vdash$		<u> </u>	
		this item may be deleted if leaving existing mulch between						ł			
		proposed EWF and existing			[			1			
I8 Re	move Existing Mulch, Replace With Topsoil & Lawn	fence			[			1			
	Remove mulch between proposed EWF and existing fence, recycle	16/5 sf @ 6" assumed / 2/									
		@1.33 16/5 st @ 2" assumed, in lieu of	42	су		\$	20.00	\$	840.00	<u> </u>	
	Move excavated soil from EWF excavation to this location	shipping and disposal			[			1			
-	Import 4" topsoil	1675 sf @ 4" /27 @1.33	27	су	-	\$	65.00	\$	1,755.00	$\vdash$	
1	• • • • • • • • • • • • • • • • • • • •		1	ea		\$	200.00	\$	200.00	$\vdash$	
	I Seeding: allowance								£00.00		
	Seeding: allowance  Mulch Removal, add Topsoil and LawnTotal	n.a.	'	Cu		Ψ	_00.00	<u>ٺ</u>		\$	2,79

10/24/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

		Description	Notes	qnt	unit	size	╙	unit cost	ext	ended cost		Totals
19 P	lanti	ing										
	- 1	Red oak and sugar maple trees		3	ea	3" cal	\$	875.00	\$	2,625.00		
	2	Furnish and place topsoil 6" deep (at lawn area near mounds)	200sf @ 6" @1.33x	5	су		\$	90.00	\$	450.00		
	3	Allowance for Grading and Reseeding - Allowance to provide labor and										
		equipment to grade and reseed areas of the site disturbed during										
		construction		- 1	ls		\$	4,500.00	\$	4,500.00		
		Planting Total					Ť	,	•	,	\$	7,57
							1				Ť	.,
		Project Subtotal									\$2	29,10
D	esig)	n Contingency		3.0	%							\$6,8
		Subtotal									\$2	35,97
С	Const	truction Contingency		5.0	%							\$11,7
		Subtotal									\$2	47,77
			Assumes school dept equipment									
In	nflati	ion Escalation - approx 1/2 year	purchase before price increase	1.0	%							\$2,4
		Subtotal									\$2	50,25
С	Const	truction Bond (n.i. school dept purchases)		1.0	%		T					\$2,0
		Project Total									\$2	52,26
P	rior	Installation by Others					T					:
		GRAND TOTAL					T				\$2	52,26
		School district to purchase all parts, accessories and delivery, and coordinate delivery to site of all play equipment (to receive discount from manufacturers).										
E	velu	sions					₩					
		Design & Engineering, Regulatory Submissions					₩					
		Zoning/Soil Erosion & Sedim. Control/Construction Permitting & Fees					₩					
		·					₩					
		Lighting					₩					
		Signage, Donor Recognition Signage					₩					
		Irrigation					₩					
		Phased Construction or Delays					⊬					
N	lote:	Items are Furnish and Install unless otherwise noted										
							L.					
Alteri	nate	es					₩					
A E	dgin	g Assembly (#13)					t					
	- 1	6x6 non-CCA pressure treated, with rebars	Note: LF may vary according to final									
			scope and current construction;									
			Add \$10/LF if installing after the EWF	248	lf		\$	20.00	\$	4,960.00		
+		Edging Assembly Total					Ť				\$	4,96
		Plus mobilization, contingencies and escalation										

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape Project #18758

+-	Description	Notes	qnt	unit	size		unit cost	ex	tended cost		Tot
onstru	Inction & Implementation										
	The implementation										
I Mob	pilization										
	Mobilization - Provide on-site mobilization, layout, submittals, port-a-										
	potty, etc.	approx 10% of construction cost									
		(minus approx. previous construction									
		and school purchases within budget)	I	ls			\$15,200.00	\$	15,200.00		
	Mobilization Total									\$	15,
2 Site	a Prop										
	Construction Entrance - Furnish, install, and remove rock construction										
	entrance for erosion and sediment control.		I	ls		\$	7,000.00	\$	7,000.00		
1	2 Erosion Control Allowance- Allowance to furnish, install and remove										
	erosion control measures		ı	ls		\$	7,500.00	\$	7,500.00		
	3 Protect Existing Equipment (#01)	n.i. equipment outside of	_								
	, , , , ,	construction fence	2	ea		\$	100.00	\$	200.00		
-	4 Tree Protection - Provide protection for existing tree and root structures	n.i. trees outside of construciton		·							
	during construction	fence	0	ea		\$	200.00	\$	-		
<u> </u>	5 Site Protection Fence - Furnish and install 4' orange		600	If		\$	3.00	\$	1,800.00		
<del>-   -  </del>	Site Prep Total				1	Ė		Ė		\$	16
_										Ψ	
_		id 10/2 Massalfa Fassil									
	Steppers on Slope	revised per 10/2 Metcalfe Email									
	Log steppers - Furnish and install log steppers (12" - 18" diameter), anchor	increase quantity to account for 6"									
	to hillside with rebar, lag screw to one another (or set on concrete) -	risers on both sides of hill (22) or									
	TBD, detail pending	revise design to access only up one									
		side	П	ea		\$	300.00	\$	3,300.00		
	Log Steppers on Slope Total									\$	3,
4 Log	Stump Seats (#7)										
	I Log Stump Seats - Furnish and install 12-18" diam, 12-18" tall on gravel										
	drainage layer, secure with rebar driven to frost line		11	ea		\$	220.00	\$	2,420.00		
-	Log Stump Seats Total					Ψ	220.00	Ψ	2, 120.00	\$	2,
_	Log Stamp States Fotal									Þ	Ζ,
_											
5 Kom	npan Parkour*										
	Parkour 004 - Furnish Kompan Robinia Parkour 004	Costars 10% discount	1	ea		\$	10,179.00		10,179.00		
						Ψ	. 0,	\$	10,177.00		
	2 Shipping, partial load		I	ea		\$	1,161.00	\$	1,161.00		
	2 Shipping, partial load 3 Install, with footings		I	ea ea			1,161.00	-			
	3 Install, with footings		l I			\$	1,161.00	\$	1,161.00	\$	16
			I			\$	1,161.00	\$	1,161.00	\$	16,
3	3 Install, with footings  Kompan Parkour Total		I			\$	1,161.00	\$	1,161.00	\$	16,
6 Kom	Install, with footings  Kompan Parkour Total  Appan Robinia Tree Climber NR0834 (#03)*			ea		\$	1,161.00 5,360.00	\$	1,161.00 5,360.00	\$	16,
6 Kom	Install, with footings  Kompan Parkour Total  Inpan Robinia Tree Climber NR0834 (#03)*  I Tree Climber NRO394	Costars 20% discount	I			\$	1,161.00 5,360.00	\$	1,161.00	\$	16,
6 Kom	Install, with footings  Kompan Parkour Total  Appan Robinia Tree Climber NR0834 (#03)*			ea		\$	1,161.00 5,360.00	\$	1,161.00 5,360.00	\$	16,
6 Kom	Install, with footings  Kompan Parkour Total  Inpan Robinia Tree Climber NR0834 (#03)*  I Tree Climber NRO394			ea ea		\$	1,161.00 5,360.00 14,928.00	\$	1,161.00 5,360.00	\$	16,
6 Kom	Install, with footings  Kompan Parkour Total  Market Climber NR0834 (#03)*  Tree Climber NRO394  Shipping, partial load	Costars 20% discount		ea ea ea		\$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00	\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00	\$	
6 Kom	Install, with footings  Kompan Parkour Total  Repan Robinia Tree Climber NR0834 (#03)*  Tree Climber NRO394  Shipping, partial load  Install, with footings	Costars 20% discount		ea ea ea		\$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00	\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00		
6 Kom	3 Install, with footings  Kompan Parkour Total  Inpan Robinia Tree Climber NR0834 (#03)*  1 Tree Climber NRO394  2 Shipping, partial load  3 Install, with footings  Kompan Robinia Tree Climber Total	Costars 20% discount		ea ea ea		\$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00	\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00		
6 Kom	Install, with footings  Kompan Parkour Total  Marian Robinia Tree Climber NR0834 (#03)*  Tree Climber NR0394  Shipping, partial load  Install, with footings  Kompan Robinia Tree Climber Total	Costars 20% discount		ea ea ea ea		\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00	\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00		
6 Kom	Install, with footings   Kompan Parkour Total	Costars 20% discount		ea ea ea ea		\$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00	\$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00		
6 Kom 7	Rompan Parkour Total   Rompan Robinia Tree Climber NR0834 (#03)*     Tree Climber NR0394     Shipping, partial load     Install, with footings   Kompan Robinia Tree Climber Total     Install   Robini	Costars 20% discount	8	ea ea ea ea		\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00	\$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00		
6 Kom 7	Install, with footings   Kompan Parkour Total	Costars 20% discount		ea ea ea ea		\$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00	\$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00		
6 Kom 7 Blac	Rompan Parkour Total   Rompan Robinia Tree Climber NR0834 (#03)*     Tree Climber NR0394     Shipping, partial load     Install, with footings   Kompan Robinia Tree Climber Total     Install   Robini	Costars 20% discount	8	ea ea ea ea ea		\$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 300.00 360.00	\$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 2,100.00 2,880.00		
6 Kom 7 Blac	Rompan Parkour Total   Rompan Robinia Tree Climber NR0834 (#03)*     Tree Climber NR0394     Shipping, partial load     Install, with footings   Rompan Robinia Tree Climber Total     Kompan Robinia Tree Climber Total     Kompan Robinia Tree Climber Total     Court Posts (#06)     6" to 10" diameter × 8.5' plus length     6" to 10" diameter × 10.5' plus length     6" to 10" diameter × 1.5' plus length     6" to 10" diameter × 2.0' plus length     6" to 10" diameter × 2.0' plus length	Costars 20% discount	8	ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 300.00 48.00 72.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 2,100.00 2,880.00 336.00 576.00		
7 Blac	Install, with footings   Kompan Parkour Total	Costars 20% discount	8	ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 300.00 48.00	\$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 2,100.00 2,880.00 336.00		
7 Blac	Rompan Parkour Total   Rompan Robinia Tree Climber NR0834 (#03)*     Tree Climber NR0394     Shipping, partial load     Install, with footings   Rompan Robinia Tree Climber Total     Kompan Robinia Tree Climber Total     Kompan Robinia Tree Climber Total     Court Posts (#06)     6" to 10" diameter × 8.5' plus length     6" to 10" diameter × 10.5' plus length     6" to 10" diameter × 1.5' plus length     6" to 10" diameter × 2.0' plus length     6" to 10" diameter × 2.0' plus length	Costars 20% discount	8 7 8 I	ea		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 300.00 48.00 72.00 1,800.00	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 2,100.00 2,880.00 336.00 576.00 1,800.00		25,
7 Blac	Install, with footings   Kompan Parkour Total	Costars 20% discount  Allowance, pending final attachment/install detail	8	ea ea ea ea ea ea		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 300.00 48.00 72.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,161.00 5,360.00 14,928.00 1,671.00 9,301.00 2,100.00 2,880.00 336.00 576.00	\$	

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape

Project #18758

	Description	Notes	qnt	unit	size		unit cost	ext	tended cost	Totals
8 Dyna	amo DX-1200*									
- 1	Cone Spinner #0911 substitute by Ely		I	ea		\$	11,035.00	\$	11,035.00	
2	Shipping		I	ea		\$	202.00	\$	202.00	
3	Install, with footings		I	ea		\$	5,500.00	\$	5,500.00	
	Dynamo DX-1200 Total									\$ 16,73
9 Gras	s Mound	revised per 10/2 Metcalfe Email								
- 1	Grass Mound - Furnish and install 6" topsoil on mound	955sf @ 6" @ 1.33x / 27	24	су		\$	95.00	\$	2,280.00	
2	Move excavated soil to mound base, compact	1/3 x 955sf x (6' extended cone								
		minus 6") @1.33 / 27	86	су		\$	55.00	\$	4,730.00	
	Native grass plugs on half of mound, final design TBD	450 sf = 1035 plugs	520	ea		\$	7.00	\$	3,640.00	
4	Sod		I	ls		\$	700.00	\$	700.00	
	Grass Mound Total									\$ 11,35
IO Kom	pan Embankment Slide*	revised per 10/2 Metcalfe Email								
I	Kompan Embankment Slide	Costars discount (10 or 20%?))		ea		\$	6,100.00	\$	6,100.00	
	Shipping			ea		\$	512.00	\$	512.00	
3	Install			ea		\$	2,626.67	\$	2,626.67	
	Kompan Embankment Slide Total									\$ 9,23
	neered Wood Fiber - I2" (#II)					<u> </u>				
1	Excavation - Provide labor and equipment for grading, excavation, hauling		]							
	and soil disposal	1292sf x 1.5' @1.33x / 27 =	96	су		\$	40.00	\$	3,840.00	
2	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF)	_								
	at 12" depth	1292sf x 1 @1.33 / 27 =	64	су		\$	70.00	\$	4,480.00	
3	Drainage Stone - Furnish and install 6" compacted aggregate base and									
	geotextile fabric	1292sf x .5 / 27 @1.4 tons/cy =	34	tons		\$	45.00	_	1,530.00	
4	Geotextile fabric - furnish and install- 2 layers	1292sf +5% for edge/waste x2 =	2,713	sf		\$	0.50	\$	1,356.50	
	12" Engineered Wood Fiber Total									\$ 11,20
	neered Wood Fiber - 9" (#12) (excluding Dynamo Spinner)									
1	Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal	2990 sf @ 12" @1.33 / 27 =	147							
						•	40.00	¢	5 990 00	
2	· · · · · · · · · · · · · · · · · · ·	0 0	147	су		\$	40.00	\$	5,880.00	
2	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF)		111							
	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy =		cy		\$	70.00	\$	5,880.00 7,770.00 1,755.00	
3	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy =	111	су					7,770.00	
3	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth	2990 sf x 9" @1.33 / 27 =	111	су		\$	70.00	\$	7,770.00	
3	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste	39	cy		\$	70.00 45.00	\$	7,770.00 1,755.00	\$ 18,54
3	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base Geotextile fabric - furnish and install- 2 layers	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste	39	cy		\$	70.00 45.00	\$	7,770.00 1,755.00	\$ 18,54
3 4	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base Geotextile fabric - furnish and install- 2 layers	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste	39	cy		\$	70.00 45.00	\$	7,770.00 1,755.00	\$ 18,54
3 4 2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =	39	cy		\$	70.00 45.00	\$	7,770.00 1,755.00	\$ 18,54
3 4 2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  meered Wood Fiber - 9" (#12) at Spinner	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =	39	cy		\$	70.00 45.00	\$	7,770.00 1,755.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  Reered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 = per Metcalfe Plan rec'd 10-28-2019	111 39 6,280	cy tons		\$ \$	70.00 45.00 0.50	\$	7,770.00 1,755.00 3,140.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base Geotextile fabric - furnish and install- 2 layers  9" Engineered Wood Fiber Total  neered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 = per Metcalfe Plan rec'd 10-28-2019	111 39 6,280	cy tons		\$ \$	70.00 45.00 0.50	\$	7,770.00 1,755.00 3,140.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install- 2 layers  9" Engineered Wood Fiber Total  Prevented Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF)	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019  403 sf @ 12" @1.33 / 27 =	6,280	cy tons sf		\$ \$	70.00 45.00 0.50	\$ \$	7,770.00 1,755.00 3,140.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install- 2 layers  9" Engineered Wood Fiber Total  Prevent Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 =	111 39 6,280 20	cy tons sf cy		\$ \$	70.00 45.00 0.50 40.00	\$ \$ \$	7,770.00 1,755.00 3,140.00 800.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  neered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.33 / 27 =	111 39 6,280 20	cy tons sf cy		\$ \$	70.00 45.00 0.50 40.00	\$ \$ \$	7,770.00 1,755.00 3,140.00 800.00	\$ 18,54
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  neered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.35 / 27 = 403 sf x 9" @1.4 tons/cy = 403 sf x 4pprox. 5% for edge/waste x2 =	20 15 5.2	cy tons  sf  cy  cy  cy  tons		\$ \$ \$ \$ \$	70.00 45.00 0.50 40.00 70.00 45.00	\$ \$ \$ \$ \$	7,770.00 1,755.00 3,140.00 800.00 1,050.00 234.00	\$
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  Prevent Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.35 / 27 = 403 sf x 9" @1.4 tons/cy = 403 sf x 4pprox. 5% for edge/waste x2 =	20 15 5.2	cy tons  sf  cy  cy  cy  tons		\$ \$ \$ \$ \$	70.00 45.00 0.50 40.00 70.00 45.00	\$ \$ \$ \$ \$	7,770.00 1,755.00 3,140.00 800.00 1,050.00 234.00	
2a Engir	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  Prevent Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.35 / 27 = 403 sf x 9" @1.4 tons/cy = 403 sf x 4pprox. 5% for edge/waste x2 =	20 15 5.2	cy tons  sf  cy  cy  cy  tons		\$ \$ \$ \$ \$	70.00 45.00 0.50 40.00 70.00 45.00	\$ \$ \$ \$ \$	7,770.00 1,755.00 3,140.00 800.00 1,050.00 234.00	
2a Engin 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  eered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.35 / 27 = 403 sf x 9" @1.4 tons/cy = 403 sf x 4pprox. 5% for edge/waste x2 =	20 15 5.2	cy tons  sf  cy  cy  cy  tons		\$ \$ \$ \$ \$	70.00 45.00 0.50 40.00 70.00 45.00	\$ \$ \$ \$ \$	7,770.00 1,755.00 3,140.00 800.00 1,050.00 234.00	
2a Engin 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  eered Wood Fiber - 9" (#12) at Spinner  Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal  Mulch Safety Surface - Furnish and install Engineered Wood Fiber (EWF) at 9" depth  Drainage Stone - Furnish and install 3" compacted aggregate base  Geotextile fabric - furnish and install - 2 layers  9" Engineered Wood Fiber Total  ining Assembly (#14)	2990 sf x 9" @1.33 / 27 = 2990 sf x 3" / 27 @1.4 tons/cy = 2990 sf +approx. 5% for edge/waste x2 =  per Metcalfe Plan rec'd 10-28-2019 403 sf @ 12" @1.33 / 27 = 403 sf x 9" @1.33 / 27 = 403 sf x 9" @1.35 / 27 = 403 sf x 9" @1.4 tons/cy = 403 sf x 4pprox. 5% for edge/waste x2 =	20 15 5.2	cy tons  sf  cy  cy  cy  tons		\$ \$ \$ \$ \$	70.00 45.00 0.50 40.00 70.00 45.00	\$ \$ \$ \$ \$	7,770.00 1,755.00 3,140.00 800.00 1,050.00 234.00	2,50

10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape Project #18758

	Description	Notes	qnt	unit	size	unit cost	ex	tended cost	Totals
I4 Und	lerdrainage at EWF and Retaining Walls								
	I Allowance - Underdrainage at low areas of EWF & retaining walls, plus	Allowance (pending underdrainage							
	discharge / connector pipes (excluding 10/28/2019 spinner location)	design)	110	lf		\$ 36.00	\$	3,960.00	
:	2 Allowance at Spinner - Underdrainage at low area of EWF, plus discharge								
		Allowance, pending underdrainage design (Metcalfe 10-28-2019 revised							
		Spinner location)	35	lf		\$ 36.00	\$	1,260.00	
	Underdrainage Total						† ·		\$ 5,22
									, ,,
I5 Plan							-		
	I Red oak and sugar maple trees		10	ea	3" cal	\$ 750.00	\$	7,500.00	
	2 River birch trees			- Cu		φ /30.00	Ψ	7,300.00	
	I THYEF DITCH GEES				1.5"-2" cal or 6-8'				
			4	ea	clump	¢ 450.00	•	2 400 00	
	3 Allowance for Grading and Reseeding - Allowance to provide labor and			Ca	Ciamp	\$ 650.00	<b>P</b>	2,600.00	-
	equipment to grade and reseed areas of the site disturbed during								
	construction		١.	la.		4 4 500 00		4 500 00	
			'	ls		\$ 4,500.00	\$	4,500.00	
	Planting Total						-		\$ 14,60
							-		
	Project Subtotal								\$183,4
Desi	ign Contingency		3.0	%					\$5,5
	Subtotal								\$188,9
Con	struction Contingency		5.0	%					\$9,4
	Subtotal								\$198,3
		Assumes school dept equipment							
Infla	tion Escalation - approx 1/2 year	purchase before price increase	1.0	%					\$1,9
	Subtotal								\$200,3
Con	struction Bond (n.i. school dept purchases)		1.0	%					\$1,5
	Project Total								\$201,9
Prio	r Installation by Others								\$61,0
	GRAND TOTAL								\$262,9
*	School district to purchase all parts, accessories and delivery, and						1		
	coordinate delivery to site of all play equipment (to receive discount from								
	manufacturers).								
Excl	lusions						1		
	Design & Engineering, Regulatory Submissions				<u> </u>		1		<u> </u>
	Zoning/Soil Erosion & Sedim. Control/Construction Permitting & Fees						+		<del>                                     </del>
	Lighting						+		
	Signage, Donor Recognition Signage				<del> </del>		+-		<del>                                     </del>
	Irrigation						+		-
					1		-		<del>                                     </del>
_	Phased Construction or Delays						-		
					ļ		1		ļ
	e: Items are Furnish and Install unless otherwise noted								

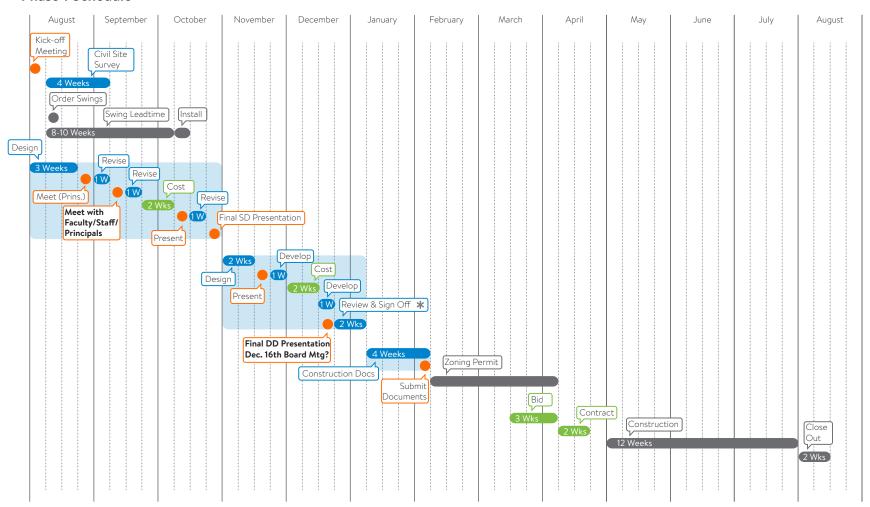
10/30/2019

ThinkGreen Landscape Architecture & Construction 215.887.2595

Site Landscape Project #18758

		Description	Notes	qnt	unit	size	unit cost	extended cost	Tota	als
AL	TERNA	TES								
Δ	Bond	ed Engineered Wood Fiber (#19) - 3" at path to/at planters	3" BEWF on 6" PA2A							
		Excavation - Provide labor and equipment for grading, excavation, hauling and soil disposal - 9" excavation	3080sf @ 9" /27 @1.33	114	су		\$ 40.00	\$ 4,560.00		
		Bonded Engineered Wood Fiber Surface - Furnish and install Bonded Engineered Wood Fiber (BEWF) at 3" depth - ALLOWANCE COST (will require suppliers updated estimate if this Alternate moves forward)								
			3080sf @ 3" depth /27 @1.33	38	су		\$ 90.00	\$ 3,420.00		
	3	PA2A Stone - Furnish and install 6" compacted aggregate base	3080sf @ 6" /27 @1.4x	80	tons		\$ 45.00	\$ 3,600.00		
	4	Geotextile fabric	n.a. with PA2A	0	sf		\$ 0.50	\$ -		
		Bonded Engineered Wood Fiber Total							\$ 11,5	580
		Add cost for grading/backfilling along sides of path, and for re-grading								
		Add mobilization, construction fencing, erosion control, seeding, contingencies, escalation, etc								
Е	3 Edgin	lg Assembly (#13)								_
		6x6 non-CCA pressure treated, with rebars - furnish and install - at base project (not including Alternates)	Note: LF may vary according to final scope and current construction; Add \$10/LF if installing after the EWF	141	lf		\$ 25.00	\$ 3,525.00		
		Cedar Edging Assembly Total							\$ 3,5	525
	1	Plus mobilization, contingencies and escalation								_

### Phase 1 Schedule



igspace\* No significant changes after Sign Off