CSUEB Playground Project



California State University East Bay

Project Management BAN - 658, Spring 2023

Faculty: Dr. Steve Peng

Professor - Department of Management College of

Business and Economics

Presented By



Palak Patel

Project Overview/Background

CSU EAST BAY Child Development Center is currently lacking a safe play area. We have been approached by CSU EAST BAY to develop a project plan.

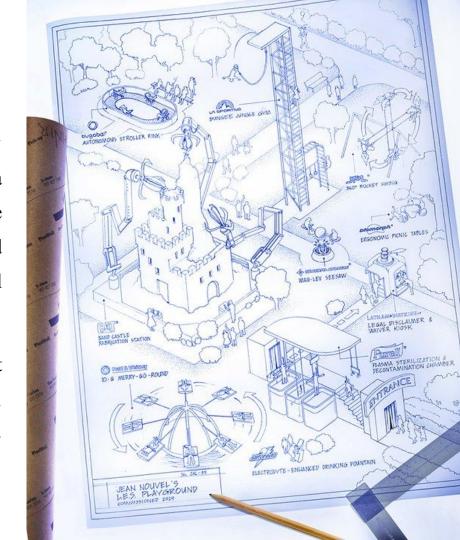


EastBay Consulting consisting of 8 Project Managers working together and presenting the Playground Project, the project to build a playground in the CAL STATE CSUEB Child Development Center, and potentially implement it as an example project for other playgrounds to be built in Hayward Parks and Recreation Area.

Project Scope

Based on the initial inquiry from the CSU East Bay (the Client), the institution is requesting developing a project plan for engineering and construction of an age appropriate playground in the area adjacent to the Child Development Center of the Hayward campus of Cal State East Bay.

The playground structure and playground around it should accommodate up to 50 children safely. In addition, the risk assessment and risk mitigation was requested and will be presented to the client.



Goals



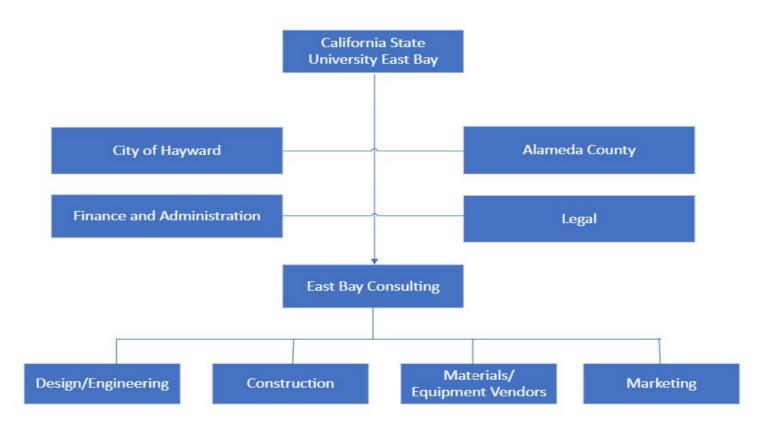




Major Deliverables

Project Scope and Objectives	Work Breakdown Structure	Resource Requirements	Project Schedule	Budget and Financial Plan	Communicati on Plan
Build an age-appropriate playground structure in CSU East Bay Hayward Campus Child Development Center.	Provide Organized Work Breakdown Structure to support project development and construction schedule	CSU East Bay Consulting workgroup Stakeholders Engineering Marketing Construction Materials Equipment Vendors	Detailed Project Schedule to Start on February 13, 2023 to be completed on April 22, 2024.	Financial Sources: Alameda County Disaster Recovery/FEMA funds City of Hayward Hayward Parks and Recreation Area funding CSUEB Budget	Project Presentation To be delivered to Stakeholders during Stakeholder Meeting Marketing Mailers to CSU East Bay Students and Hayward residents (construction notices)

Organization Structure



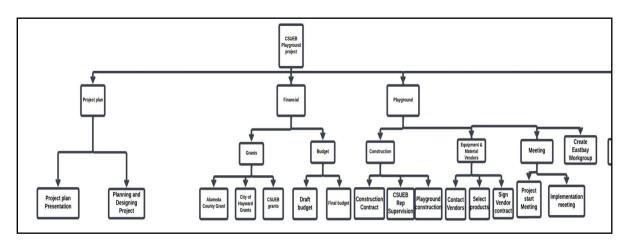
Project Resources

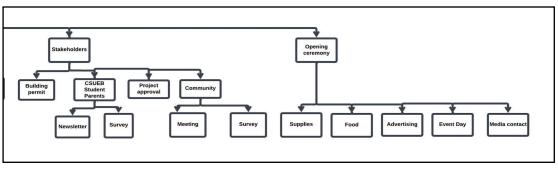
- Project Team
- Materials
- Equipments
- Tools
- Transportation
- Permits and approvals
- Funding
- Time
- Communication & coordination





Work Breakdown Structure

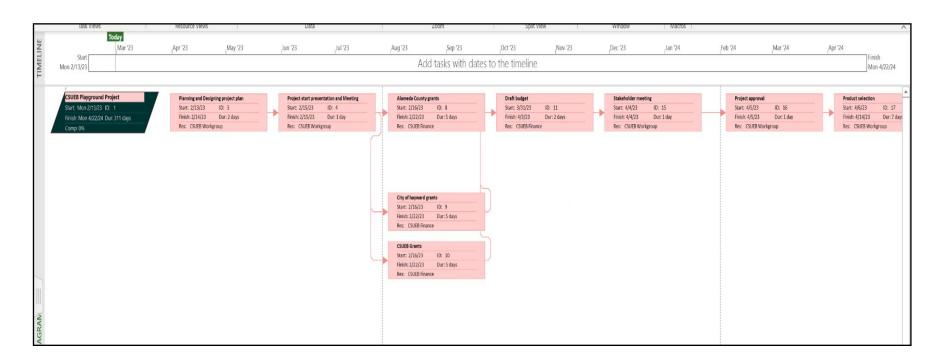


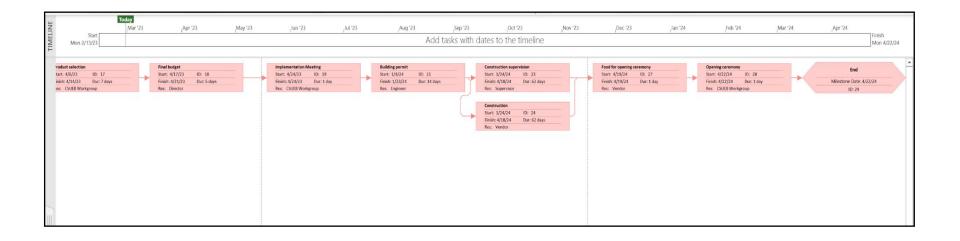


Gantt Chart

	Columns	Bar Styles				Gantt	Chart Style			L2	Show/Hide	Drawings
	Mar '23 Apr '23	May '23	Jun '23	Jul '23	Aug '23 ,S	ep '23 Oct '23	Nov '2	3 Dec '23	Jan '24	Feb '24	Mar '24	Apr '24
art 23				100000000	Add tasks	with dates to the timel	line	1000000		10000000		Finish Mon 4
23					7 100 0000	77101 00000 10 010 0110						Mon 4)
k							Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024 Q	tr 2, 2024 Qtr 3, 2
de 🕶	Task Name				Predecessors	Resource Names -	Dec Jan Feb	o Mar Apr May	/ Jun Jul Aug Sep	Oct Nov De	ec Jan Feb Mar	Apr May Jun Jul
	1 CSUEB Playground Project	311 days	Mon 2/13/23									1
	1.1 Start	0 days	Mon 2/13/23					2/13				
	1.2 Planning and Designing project plan	2 days	Mon 2/13/23			CSUEB Workgroup		CSUEB Workgroup				
•	1.3 Project start presentation and Meeting	1 day	Wed 2/15/23	Wed 2/15/23	3	CSUEB Workgroup		CSUEB Workgroup				
-	1.4 Create workgroup	1 day	Thu 2/16/23	Thu 2/16/23	4	CSUEB Workgroup		CSUEB Workgroup	•			
3	1.5 CSUEB Purchasing Vendor list	2 days	Fri 2/17/23			CSUEB Finance	i	CSUEB Finance				
3	1.6 Vendor contact	1 day	Tue 2/21/23			CSUEB Workgroup		*CSUEB Workgrou	р			
\$	1.7 Alameda County grants	5 days	Thu 2/16/23			CSUEB Finance	1	CSUEB Finance				
÷	1.8 City of hayward grants	5 days	Thu 2/16/23			CSUEB Finance	1	CSUEB Finance				
→	1.9 CSUEB Grants	5 days	Thu 2/16/23			CSUEB Finance	I	CSUEB Finance				
->	1.10 Draft budget	2 days			8FS+26 days,9FS+26 days,10FS+26			CSUEB Fi				
÷	1.11 Newsletters	2 days	Fri 2/17/23			CSUEB Workgroup	i	CSUEB Workgrou				
÷	1.12 Survey parents	7 days	Tue 2/21/23			CSUEB Workgroup		CSUEB Workgro				
4	1.13 Survey Community	7 days	Tue 2/21/23	Wed 3/1/23	12	CSUEB Workgroup		CSUEB Workgro				
\$	1.14 Stakeholder meeting	1 day	Tue 4/4/23	Tue 4/4/23	11,13,14	CSUEB Workgroup			/orkgroup			
3	1.15 Project approval	1 day	Wed 4/5/23	Wed 4/5/23	15	CSUEB Workgroup			/orkgroup			
	1.16 Product selection	7 days	Thu 4/6/23	Fri 4/14/23	16	CSUEB Workgroup			Workgroup			
3	1.17 Final budget	5 days	Mon 4/17/23	Fri 4/21/23	17	Director		Direc				
3	1.18 Implementation Meeting	1 day	Mon 4/24/23	Mon 4/24/23	18	CSUEB Workgroup			B Workgroup			
4	1.19 Media release	3 days	Tue 4/25/23	Thu 4/27/23	19	Marketing head		Mar	keting head			
>	1.20 Building permit	14 days	Thu 1/4/24	Tue 1/23/24	19FS+182 days,20	Engineer					Engineer	
-	1.21 Sign Vendor contract	3 days	Thu 1/4/24	Mon 1/8/24	19FS+182 days,20	Director					Director	
>	1.22 Construction supervision	62 days	Wed 1/24/24	Thu 4/18/24	22,21	Supervisor						Supervisor
>	1.23 Construction	62 days	Wed 1/24/24	Thu 4/18/24	21,22	Vendor						Vendor
>	1.24 Opening ceremony Advertisements	4 days	Wed 1/24/24	Mon 1/29/24	21,22	Marketing head					Marketing he	
3	1.25 Supplies for opening ceremony	1 day	Tue 1/30/24	Tue 1/30/24	25	CSUEB Workgroup					CSUEB Works	
3	1.26 Food for opening ceremony	1 day	Fri 4/19/24	Fri 4/19/24	24,23	Vendor						Vendor
3	1.27 Opening ceremony	1 day	Mon 4/22/24	Mon 4/22/24	26,27	CSUEB Workgroup						CSUEB Workgroup
3	1.28 End	0 days	Mon 4/22/24	Mon 4/22/24	28							4/22

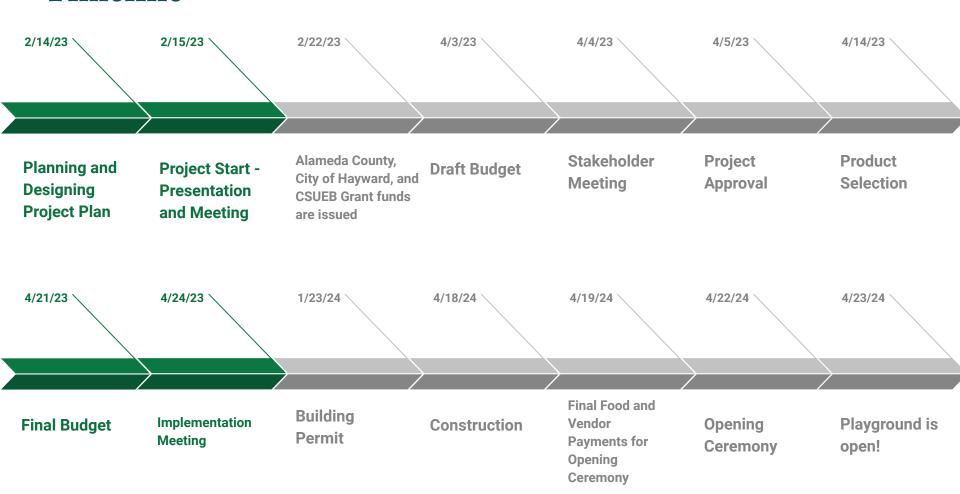
Critical Path





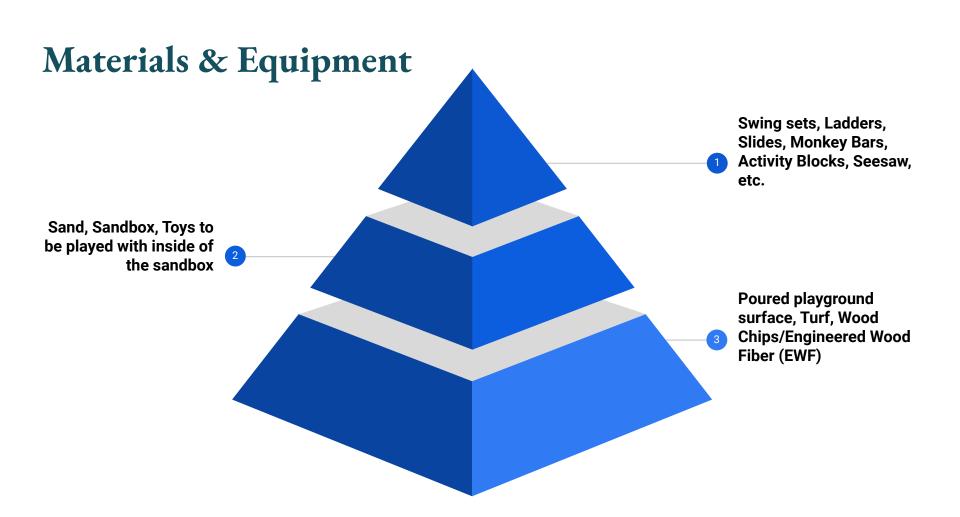
Planning and designing project plan—Project start presentation and meeting—Alameda County grants/City of Hayward grants/Alameda County grants—Draft budget—Stakeholder meeting—Project approval—Product selection—Final budget—Implementation meeting—Building permit—Construction/Construction supervision—Food for opening ceremony—Opening ceremony—End

Timeline



Funding Source & Budget

Incoming Funds:	\$150,000 in Grants received from:	 Alameda County (\$75,000) City of Hayward (\$50,000) California State University, East Bay (\$25,000)
Expenses:	\$100,000 spent on Construction Costs:	 Permit application and approval (\$3,000) Labor (\$90,000) Workers Comp Insurance (\$2,000) Landscaping (\$5,000)
Expenses:	\$35,000 spent on Material Costs:	 Poured playground surface (\$12,000) Swing sets, ladders, activity blocks, etc. (\$15,000) Sand (\$1,000) Toys to be played with inside sandbox (\$2,000) Wood Chips (\$1,000) Turf (\$4,000)
Expenses:	\$15,000 spent on Opening Ceremony costs:	 Printed invitations and flyers (\$500) Goody bag/swag bag costs (\$3,000) Rental equipment (tables, chairs, tablecloths, speaker, etc.) (\$8,000) Necessary supplies (paper plates, napkins, cutlery, etc.) (\$1,000) Food, dessert, drinks, etc. (\$2,500)



Stakeholders

CSUEB

Alameda County

City of Hayward

CSUEB Work Group (East Bay Consulting)

Client, Funding Resources: A public California State University local to the Bay Area in Northern California offering both undergraduate and graduate areas of study, including having a Child Development Center.

Funding Resources;
A county in Northern
California that
provides social
services, health care,
public protection, and
general government
programs for their
residing residents.

Funding Resources;
A city in the East Bay
of Alameda County
falling under their
jurisdiction, and
providing those same
or similar resources
to their general
population.

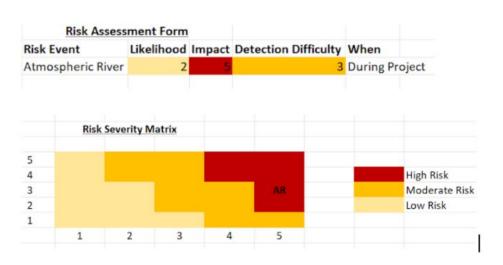
Project Manager;
A work group
consisting of 7 Project
Managers working
together on this project
to build a playground in
the CSUEB Child
Development Center,
part of Hayward Parks
and Recreation area.

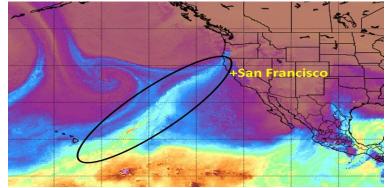
Technical Challenges

- Slope of Site
- Type of Soil
- Vegetation
- Underneath the Playground



Risk Management Scenario #1: Atmospheric River

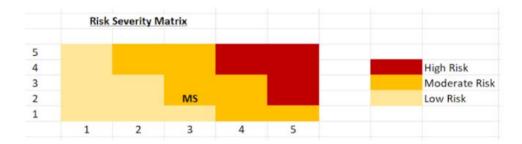


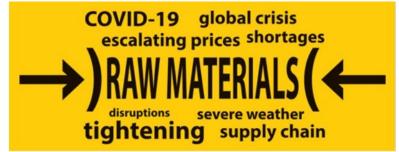




Risk Management









Reducing Project Duration





Activity	Predecessor activity	Normal time	Maximu m crash time	Normal cost	Crash cost	Extended crash cost
Building Permit	Implementation Meeting	14 days	4	\$214/day	\$350/day	\$1400
Constructi on	Building Permit	62 days	21	\$1,452/day	\$1,600/day	\$33,600
					Total additional cost	\$35,000

Achievements

- 1. Addressed technical challenges during playground construction to ensure functionality and safety.
- 2. Prepared for natural disasters such as atmospheric rivers and earthquakes by implementing proper construction methods and emergency response plans.
- 3. Managed the project's budget effectively, including contingency plans for emergency maintenance and reconstruction.
- 4. Demonstrated foresight in purchasing extra materials in advance, saving costs and ensuring timely completion.



Conclusion

The team managed risks and made contingency plans. They also accelerated the project timeline by 25 days and identified which activities to crash within the budget. They learned about technical challenges, disaster planning, communication, and teamwork.



Questions?