

AIA Learning Unit

- Understand the various ground covering options for playground structures.
- Identify the available inclusive playground equipment elements and how to incorporate these elements into new and existing playground structures.
- Learn how to create playground environments that promote inclusive play.
- Understand the different types of play that can occur on inclusive playgrounds and the health benefits they provide to kids.
- Identify different types of project delivery methods and approaches for implementation and procurement.



Introductions



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LISD Profile

More than 48,000 Students

127 square miles - one of the largest footprints in DFW Top 20 largest district in the state, Top 100 in the nation

79 sites containing approx. 10 million sq. ft.

- 39 Elementary Schools
- 15 Middle Schools
- 10 High School level campuses
- 2 Career Centers
- 1 Learning Center

- 1 Early Childhood Campus
- 2 Aquatic Centers
- 5 Stadiums, multiple athletic, and support buildings



The Importance of Play



Traditional Playground

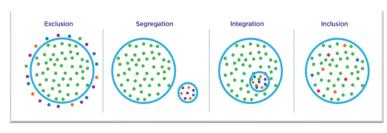


Americans with Disabilities Act of 1990



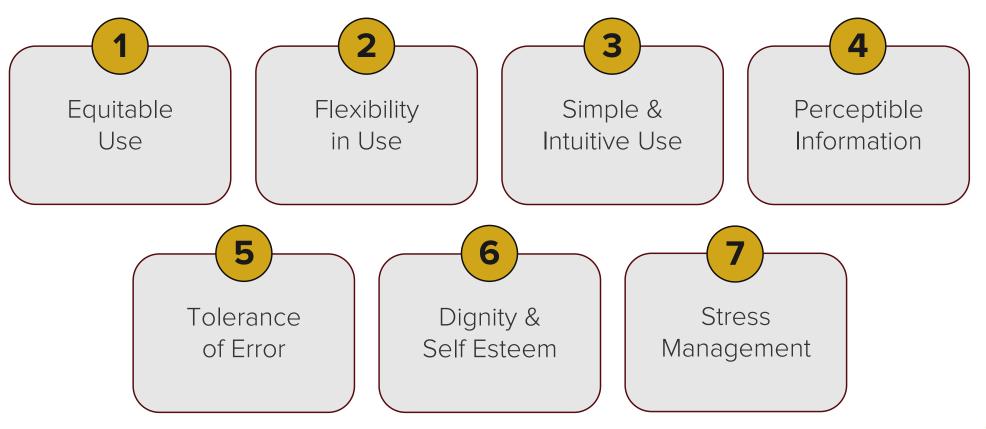
Universal Design

- Access for all, regardless of abilities
- Account for the diverse
 perspectives and backgrounds
 of users. Include users from
 different ethnicities, genders,
 and/or with cultural differences,
 varying language abilities and
 preferences, and more.



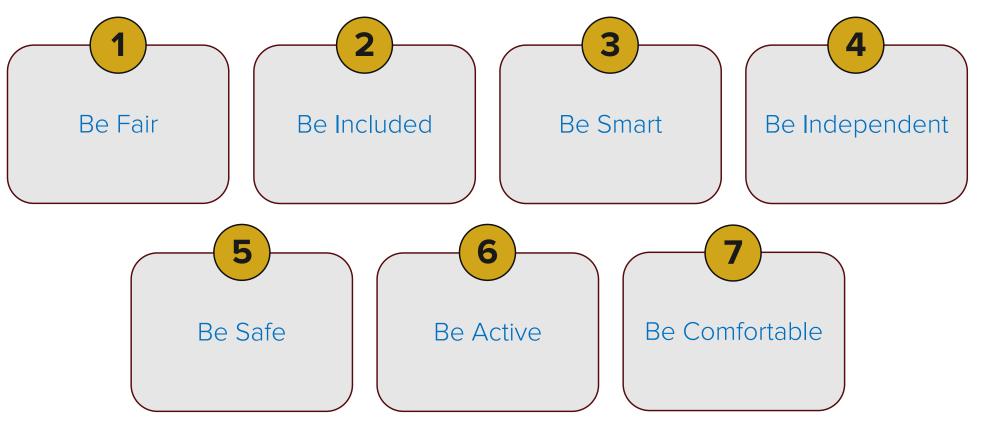


7 Principles of Universal Playground Design





7 Principles of Inclusive Playground Design





7 Principles of Universal Playground Design

Tailoring the Principles

Uniquely Aligned for Outdoor Play and Recreation Environments

Principles of Universal Design

Center for Universal Design NC State University

7 Principles of Inclusive Playground Design

Institute for Disability Research,
Policy & Practice
Utah State University

Equitable Use Be Fair

Flexibility in Use Be Included

Simple & Intuitive Use Be Smart

Perceptible Information Be Independent

Tolerance for Error Be Safe

Low Physical Effort Be Active

Size & Space for Approach & Use Be Comfortable

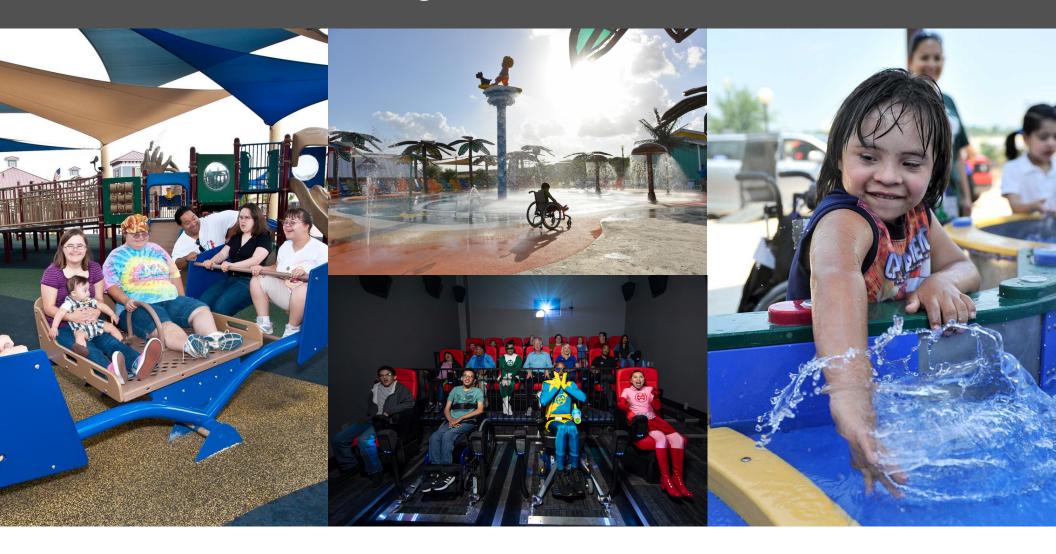
The Center for Universal Design (1997). The Principles of Universal Design, Version 2.0. Accessed September 22, 2016 from https://www.ncsu.edu/design/cud/about_ud/ud/inciplestext.html

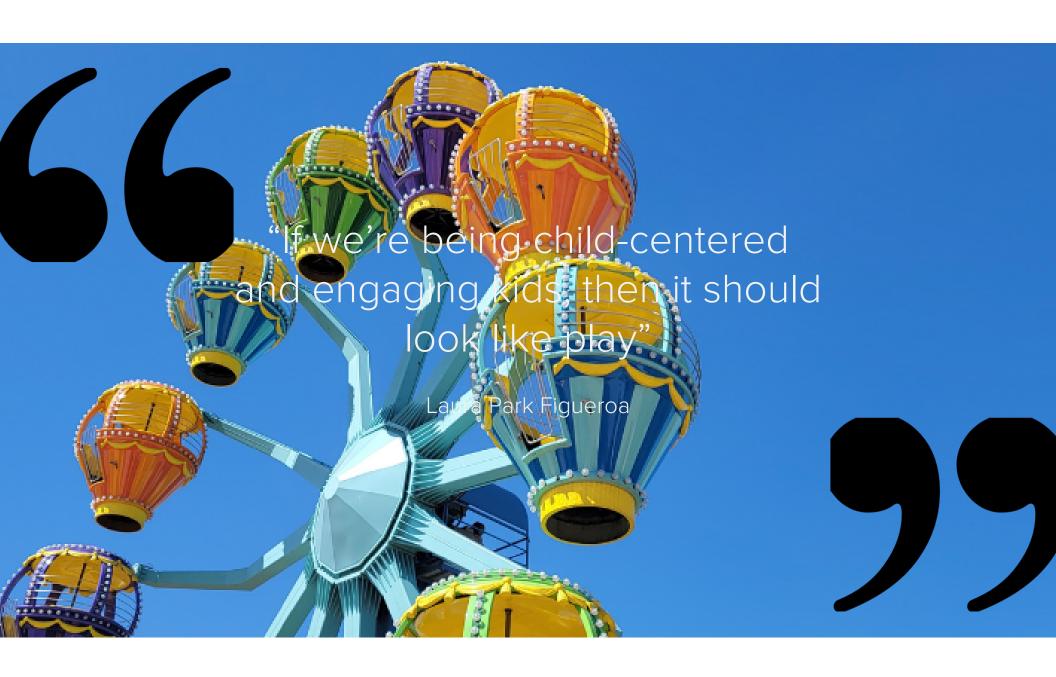
PlayCore & Utah State University (2010). 7 Principles of Inclusive Playground Design, Chattanooga, TN.





Morgan's Wonderland





Neurodivergence

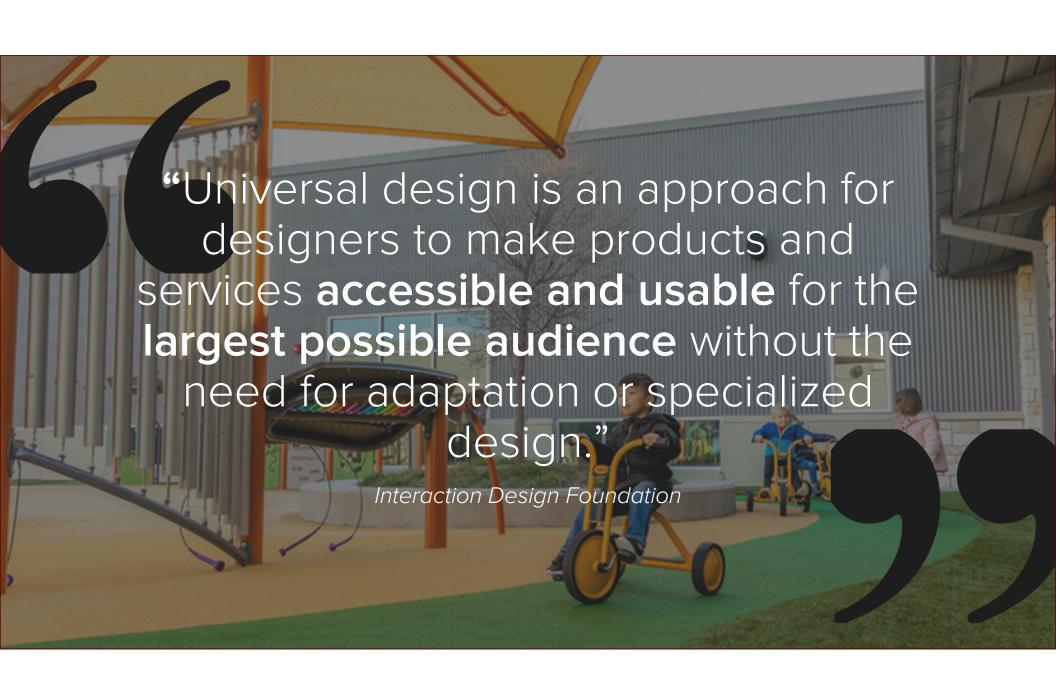
- Encourage play-based approaches that support social participation, develop relationships, and cultivate motor skills
- When a narrow skill set is expected or required by the built environment or program to participate, it often creates physical, psychological, and/or social barriers.
- Include a multigenerational approach

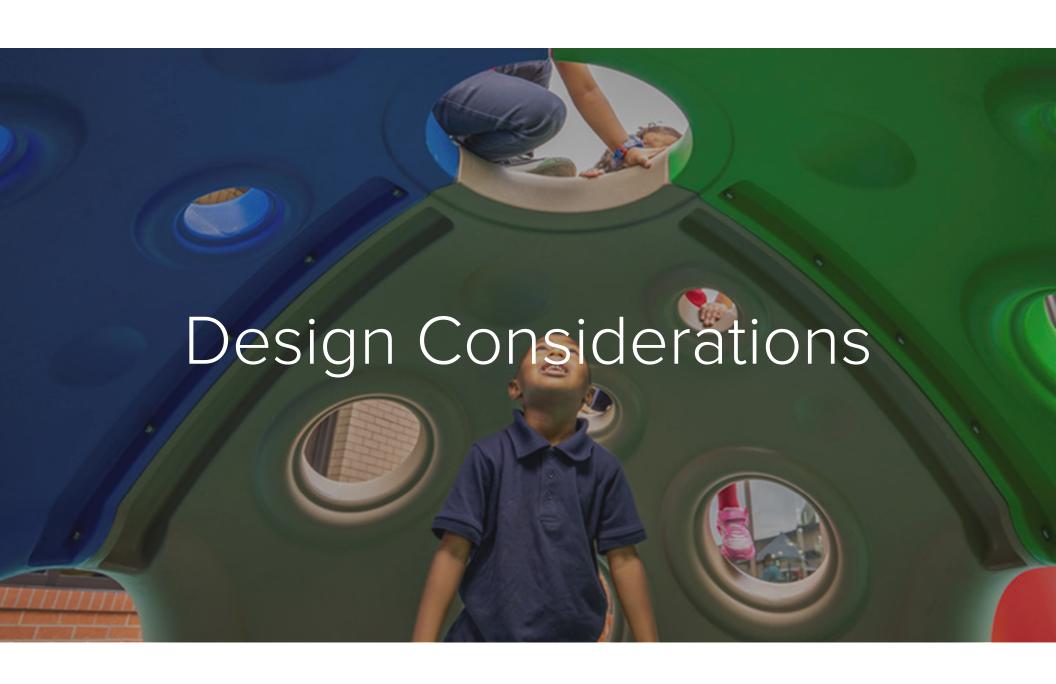


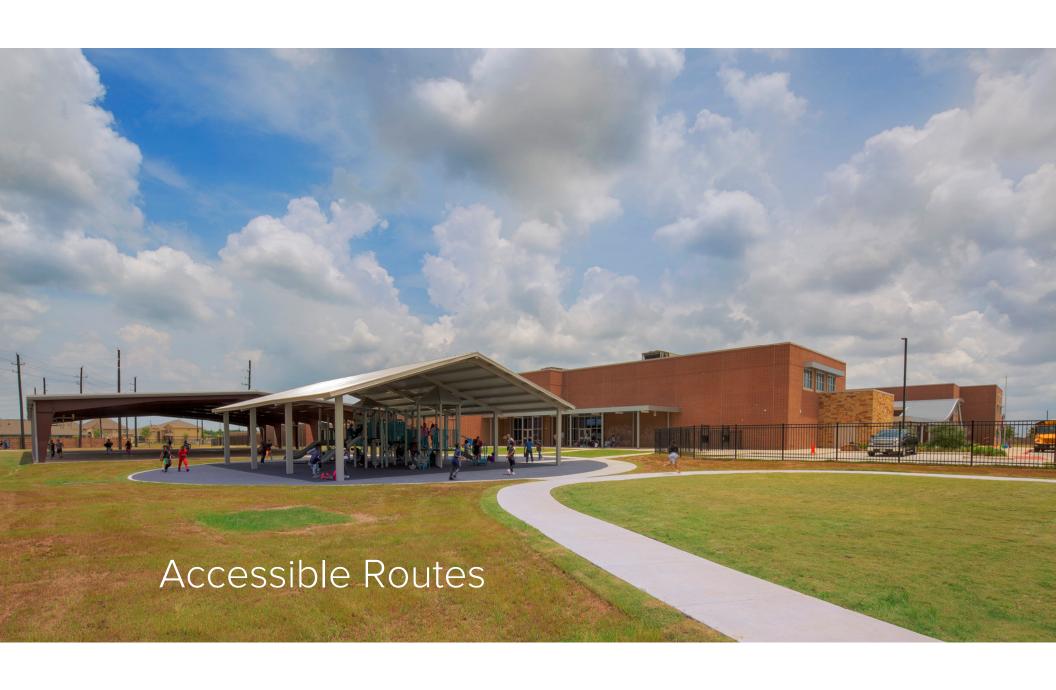
6 Principles of Trauma Informed Design

Empowerment & Security, Privacy, Sense of Personal Care & Personal Space Community Dignity & Self Stress Beauty & Meaning Esteem Management











- Access is provided, but not universal. Goal should be access for all at all entry points.
- Consider ease of moving beyond a single piece of equipment

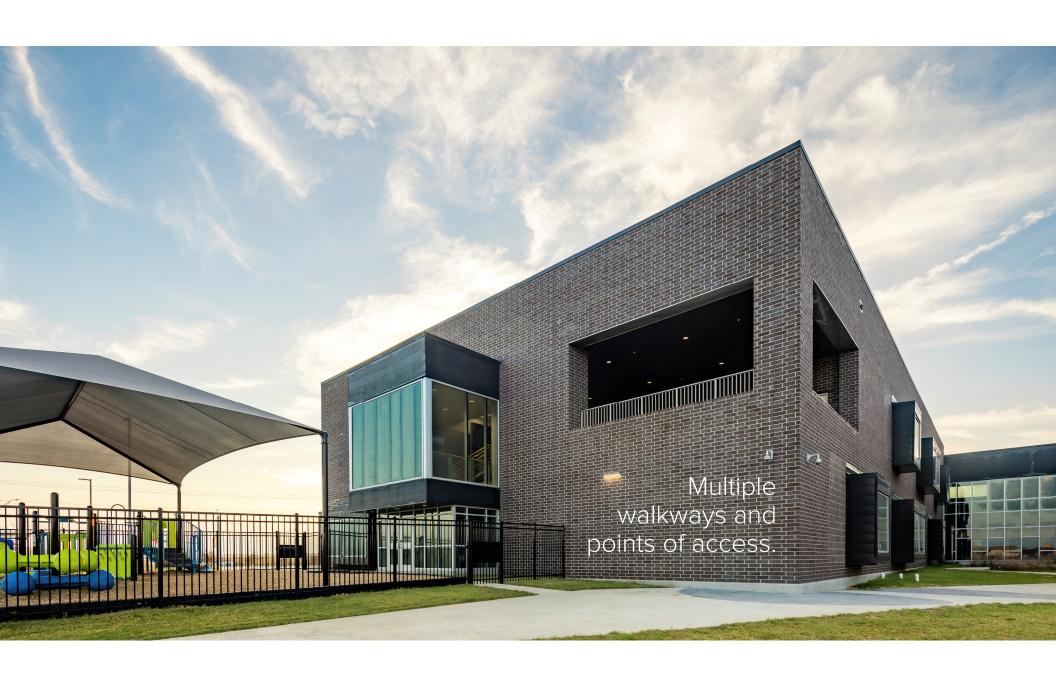




Slide 20

similar entry to a stage, everyone can get an award at the same access point... caudillt@lisd.net, 2024-09-24T20:37:32.941 ca0

ADA swings and belt swings are allowed in same space. caudillt@lisd.net, 2024-09-26T20:48:23.820 ca0 0

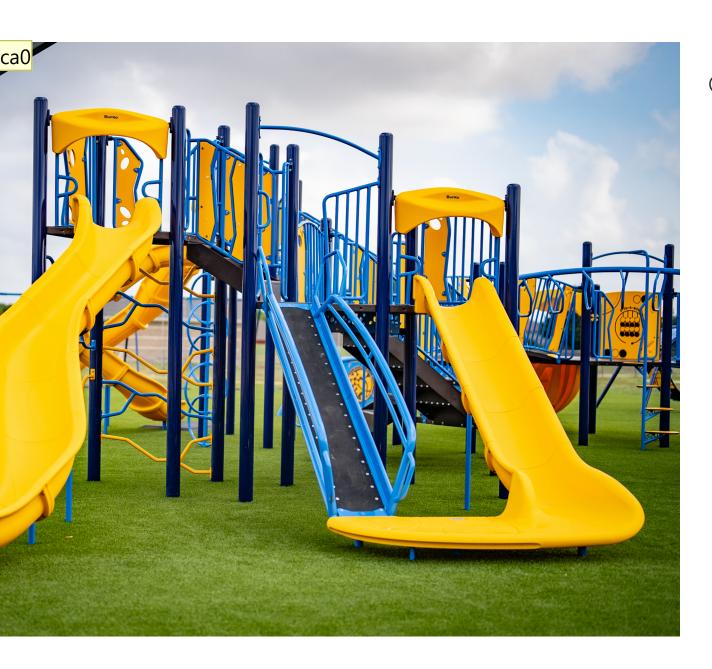












Consider:

- Size
- Inclusive Play
 - Material
 - Safety
- Accessible Bridges
 - Variety
 - Flexibility
 - Location

Slide 26

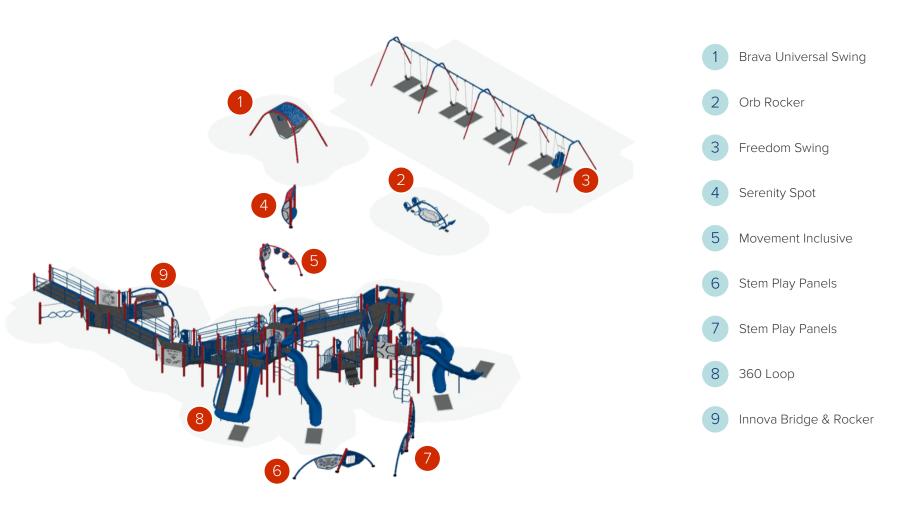
LISD used a 16'-0" eave height to avoid vandalism. caudillt@lisd.net, 2024-09-24T20:52:56.948 ca0

CH0 0 eaves on shades?

Corrie Hood, 2024-09-24T21:35:41.922

ca0 1 yes!

caudillt@lisd.net, 2024-09-26T20:03:57.587



McAuliffe Elementary School – Lewisville ISD



Slide 28

CHO @caudillt@lisd.net Love this!

Corrie Hood, 2024-09-24T21:36:35.969

ca0 0 Thank you! :)

Thank you! :) caudillt@lisd.net, 2024-09-26T20:03:27.149



Brava Swing Set

- Allows for independent transfer.
- Tool for children on the Autism spectrum to freely express stimming behaviors such as rocking while participating in the natural movement of the swing.
- Creates an equitable and accessible environment for all children to be part of the action with their peers, family members and caregivers.



Orb Rocker

- Provides place for hands and feet and a side entrance that allows all users to enter and ride comfortably.
- Helps children develop socially, emotionally physically and cognitively all while having fun and getting exercise.



Freedom Swing

- Ergonomically designed seat provides greater stability, security and comfort for kids with limited core and upper-body strength.
- Safety harness is easy to lift and secure with a latch mechanism.

Serenity Spot

- A fort-like environment that offers special features such as a kick flap, objects to manipulate and a mirror to help see and express emotion.
- Allows children to express themselves freely and provide an outlet for stimming behaviors of children on the ASD spectrum.
- Enhances and encourages
 intergenerational play with spaces for
 children and caregivers to sit and
 interact.





MOVMNT Inclusive

- Offers the opportunity for socialization and cooperation within a child-directed setting.
- People-powered.
- Fosters intergenerational engagement when children and adults play together and helps kids get more time at the playground when parents or caregivers participate in play.

StemPlay

- Children learn best through play.
- Science & Engineering outdoors.
- Parallel Play.





360 Loop

- This transfer, climber, slide combination allows for children of all abilities to have control over their play experience and be able to play and move independently.
- Transferring onto the climber, kids can climb however they are comfortable using their upper bodies or legs to work their way to the top before they come down the slide.



Innova Bridge & Rocker

- Provides rocking and socialization options for children of all abilities and doesn't require a transfer from a mobility device.
- Brings equity to the playspace and promotes inclusivity by providing options for children of all abilities to have the same experience on the playground.







Consider:

- Size
- Transparency
- Material
- Structure
- Angles
- Sun Path
- Height

Modifications to Existing Playgrounds

- Ensure fall zones are accounted, including non-competing fall zones.
- Select play structures that can share fall zones or have zero fall zones like the Movmnt.
- Consider playground flow and run zones.
- Parallel entry points.





Delivery Methods

- Construction Manager at Risk (C@MR)
- Competitive Sealed Proposal (CSP)
- Job Order Contract (JOC)



[@Emily Cozort] Do we have symbols for these delivery types? Maybe a quick intro slide from a bond presentation? Corrie Hood, 2024-09-25T14:40:40.180 CH0

Construction Coordination

- Surrounding Sod Extents
- Adjacent Irrigation
- Fencing Extents
- Staging Area
- Identify Utility locations
- Lead Times



Budget







