City of Carroll

112 E. 5th Street Carroll, Iowa 51401-2799 (712) 792-1000 FAX: (712) 792-0139

MEMO TO: Mike Pogge-Weaver, City Manager

FROM: Jack Wardell, Director of Parks and Recreation JW

DATE: April 20, 2017

SUBJECT: Memo to City Council – Presentation for All-Inclusive Playground System

I have met several times over the last few months will Pat & Allie Tigges and Kim Hackett. We have discussed their idea of the Carroll Community having an All-Inclusive Playground System. Attached to this memorandum is a presentation from Miracle Recreation that gives information for communities to think about when considering placing an All-Inclusive Playground in their community.

The suggestion to staff would be to place the system, if approved, in Graham Park. There are two possible areas and the attached Graham Park map shows the two areas.

Below is an estimate of probable cost for the project with possible grant opportunities.

All Inclusive Playground System	$ 80,000.00
Surface	$ 52,000.00
Total Estimate of Cost	$132,000.00

Revenue:

City of Carroll – Hotel / Motel Tax	$ 50,000.00

Grant Possibilities:

- Peter Kiewit Foundation
- Iowa West Foundation
- Union Pacific Foundation
- Carroll County Foundation
- Gilbert and Barbara Renze Foundation
- Warren H. Timmerman Foundation

Private Fundraising

The total estimate of probable cost does not include installation of either the playground equipment or the poured rubber surface.

If the City Council decides to proceed with the project, below is a tentative timeline.

Tentative Timeline:

City Council Recommendation	April 24, 2017
Apply for Grants/Request Donations	April - August 2017
Receive bids	September 2017
Install (weather permitting)	October/November 2017

RECOMMENDATION: Mayor and City Council give direction to City Staff and volunteers to proceed with applying for grants and request donations.

City Park
Carroll, IA. CD220445

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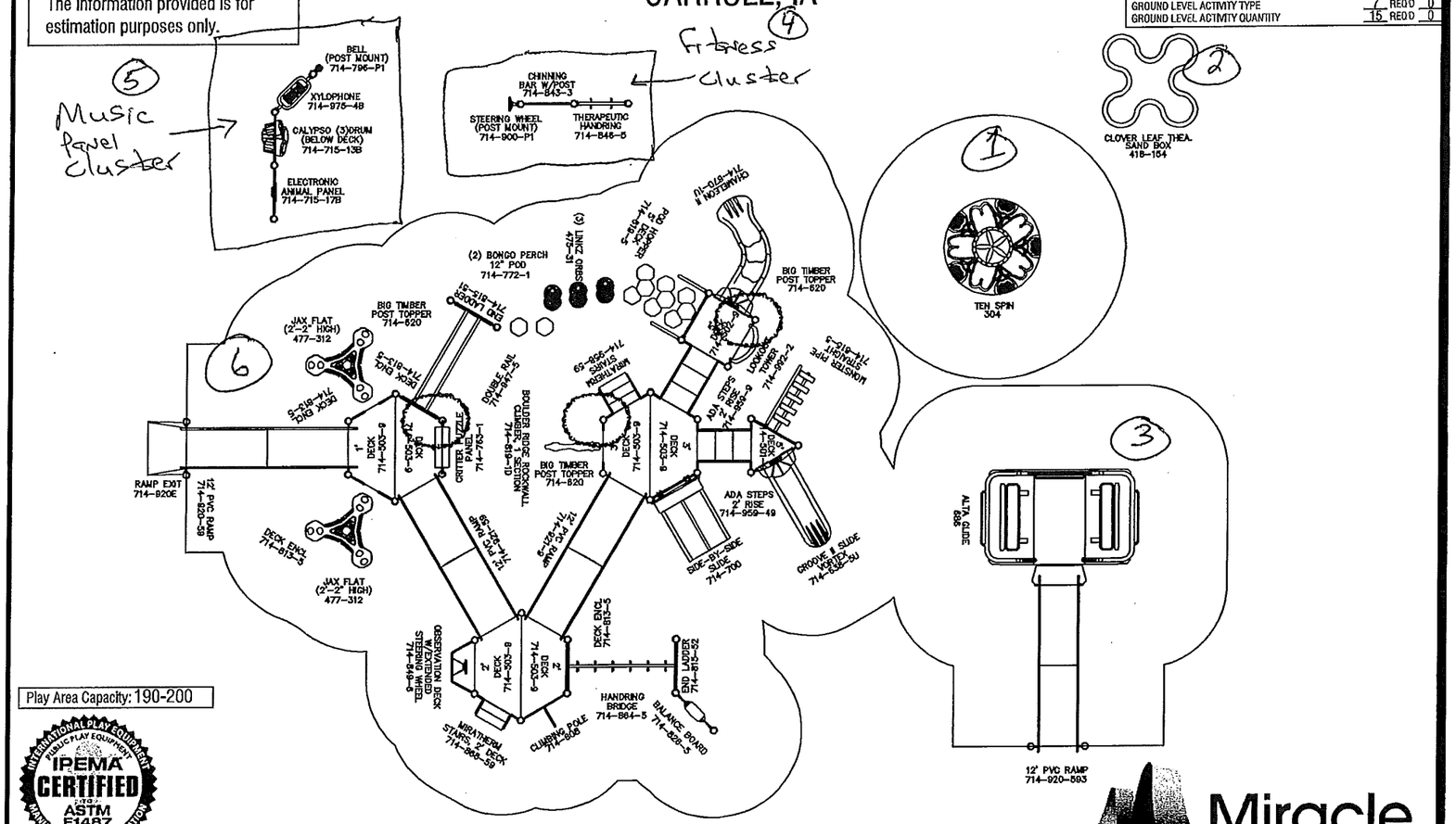
CITY PARK
CARROLL, IA

AREA: 2860 SQUARE FEET
PERIMETER: 323'
The information provided is for estimation purposes only.

5-12 PLAY AREA

ELEVATED PLAY ACTIVITIES - TOTAL	13		
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER	0	REQ'D	0
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP	9	REQ'D	7
GROUND LEVEL ACTIVITY TYPE	7	REQ'D	0
GROUND LEVEL ACTIVITY QUANTITY	15	REQ'D	0



Play Area Capacity: 190-200

INTERNATIONAL PLAY EQUIPMENT MANUFACTURERS ASSOCIATION
PUBLIC PLAY EQUIPMENT
IPEMA CERTIFIED
to ASTM F1487
To verify product certification, visit www.ipema.org

To promote safe and proper equipment use by children, Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each playsystem's main entry point(s) to inform parents and supervisors of the age appropriateness of the playsystem and general rules for safe play.

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THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.	CD220445-446	✓	COMPLIES TO CPSC	DESIGNED FOR AGES 5-12		SCALE: 1"=10'-0"
	GROUND SPACE: 71' X 42'	✓	COMPLIES TO ASTM	ADDITIONAL GROUND LEVEL ACCESSIBLE ITEMS NEEDED FOR ADA COMPLIANCE		DATE: 1/4/2017
AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS.	PROTECTIVE AREA: 77' X 53'	✓	COMPLIES TO ADA	TYPE: 0	QUANTITY: 0	AR

Miracle
Unleash the Power of
Sensory-Rich Inclusive Play

Why Sensory-Rich Inclusive Play?

Every child deserves to feel exhilarated and experience new sights, sounds and textures. It is important to design a playground that not only meets ADA requirements but also provides engaging experiences for children of all abilities. We offer a variety of products that provide additional accessibility and sensory benefits to create a truly inclusive play space.

6.4 million, or 13% of children receive special education services in the United States.[i]

Of all children with disabilities:

- **1%** are described as having an orthopedic impairment
- **35%** have a specific learning disability
- **21%** have a speech or language impairment
- **8%** have autism
- **13%** have either an intellectual disability or developmental delay

1 in 6 children in the US have one or more developmental disabilities or delays.[ii]

i. National Center for Education Statistics
ii. Center of Disease Control

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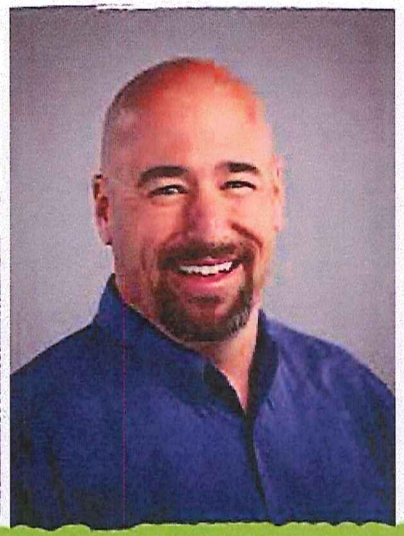
Our Experts

Dr. Zoe Mailloux

Dr. Zoe Mailloux, OTD, OTR/L, FAOTA, is a pediatric occupational therapist, nationally and internationally recognized for her expertise in child development, autism, sensory integration, test development, and occupational therapy for more than 35 years.

Dr. Mailloux helps inform the designs for many of our inclusive products. Dr. Mailloux has more than 30 published journal articles and textbook chapters and over 500 presentations at workshops and conferences worldwide. She is currently on the faculty of Thomas Jefferson University in the Department of Occupational Therapy and serves as a consultant for a variety of businesses and organizations.



Lloyd Reese

Lloyd Reese, *Director of Engineering and Development at PlayPower, Inc.,* has more than 30 years of experience in design engineering with 24 years focused on play and accessibility in the playground industry. Mr. Reese is an active member of ASTM and CSA committees on play. He sits on the Board of Directors of IPEMA, and is a past President of the organization and also is a charter member of the IPEMA Equipment Certification committee. Mr. Reese participated in the ASTM advisory group which helped create the Access Board's original Accessibility Guidelines for Play Areas. Mr. Reese holds a Bachelor of Engineering degree from the University of Missouri-Rolla .

4 Must-Haves for an Inclusive Playground

1

Accessibility

There must be an ADA-approved route to the playground use zone.

2

Equal Opportunity Play

All kids should be able to participate in elevated and ground-level play. Ramps and transfer points throughout the playground allow children of all abilities to engage.

3

Variety

Integrating a variety of play opportunities can allow children to explore, develop and integrate all their senses, including the sensations of touch, movement, body awareness, vision and hearing while supporting motor planning and social play experiences.

4

Integration

The play space should feel like a cohesive community where accessible and sensory-rich play opportunities are located in the midst of all the action.

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Designed to bring play to everyone, regardless of abilities, this sample of our Inclusive product offering details the value certain products bring to children.

Ten Spin

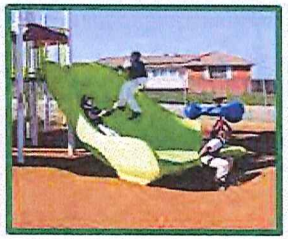
- Built to accommodate up to 10 kids at once, this popular, freestanding event allows children of all abilities to join in the fun by either sitting, kneeling, or standing.

Reflex

- Children can ride the waves and enjoy the up and down motion of the Reflex. Multiple children can work together to achieve a smooth, swaying movement.

Ramps, Decks, Transfer Points

- Ramps can include straight, curved and double wide ramps to accommodate both 1 and 2 wheelchairs and a variety of designs. Extra wide decks allow for wheelchairs to turn around.



Avalanche Slide

- The first and only accessible slide of its kind, the Avalanche Inclusive Slide has a lower transfer point so children can access the slide from ground level before pulling themselves up using the side rail.

Accelerator Swing

- Built with a large disc and protective rubber bumper, this group swing incorporates the motion of a traditional swing with the added fun of interactivity.

Clover Leaf Sandbox

- Specifically designed with multiple access points, this inclusive sandbox offers sensory play for children with varied developmental and physical needs.

Interactive Play Panels

- Miracle offers a variety of interactive play panels that provide diverse sensory experiences to children of all abilities.

Alta Glide Inclusive Glider

- This swaying, bouncing, wheelchair accessible glider makes play exciting for all kids, with two large benches with springs for added motion and exterior standing ledges.

Roller Slide

- The Roller Slide lets kids experience a new, tactile way to slide with the added movement and texture of rollers beneath them, and also encourages cooperative, inclusive play

Pull Along

- This wheelchair accessible freestanding event offers a slider bay and overhead climber, providing multiple play events in one.

Therapeutic Swing Seat

- Our Therapeutic Swing Seat provides a safety harness for children who need extra security and support.

Focus Areas for Inclusive Play

1

Access

Ramps and transfer points throughout the playground allow children of all abilities to engage in both elevated and ground-level play. Ramps can provide access to above-ground activities, while the rails provide continuous gripping support.

2

Sensory Play

All children can enjoy the nurturing and valuable elements of tactile play at the "just right" height for everyone. Some children do not have good touch perception, and because they may also have limited play and motor skills, they may not engage in activities that would help to develop the tactile sense, but interactive Play Panels can help!

3

Proprioception

Allows children to slide back and forth, providing deep muscle pressure that supports and develops the vital sense of body awareness - proprioception. Learning about position, grading of force and developing upper body strength and coordination are other benefits of the Pull Along.

4

Playing Together

The Ten Spin is powered by teamwork. Accessible and supportive, it supports balance and postural support, providing helpful boundaries for children who need help recognizing and adjusting the position of their bodies.

5

Vestibular Input

Up and down, side to side and all the way around - the Accelerator Swing helps activate and integrate the important sense of movement and gravity - the vestibular sense. Activating motion receptors beyond typical linear swings. Supports ability to keep body and head upright without slouching!

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Ten Spin

SENSORY BENEFITS:

Rotary motion is essential in early development to support important functions such as balance, muscle tone, head-eye-hand coordination and spatial orientation The cozy cocoon shaped seats also offer postural support, providing helpful boundaries for children who need help recognizing and adjusting the position of their bodies.

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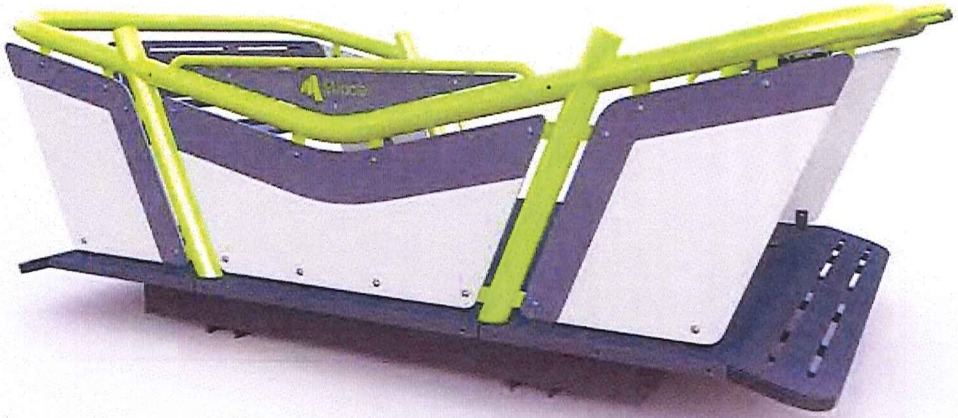
Alta Glide Inclusive Glider



SENSORY BENEFITS:

Push-pull motion helps kids develop balance, coordination, body awareness, eye tracking and muscle tone. Wheelchair access ensures that all children have the chance to feel the exhilaration of moving through space in fun, enriching ways! It is also large enough that there is room for a parent or caregiver to ride along. Not many pieces of equipment allow for experiencing movement in as many planes of action, as this swing-sitting, standing, kneeling or even lying down!

*REQUIRED ACCESS TO 12" ENTRY VIA 12' RAMP SOLD SEPARATELY (NOT SHOWN)

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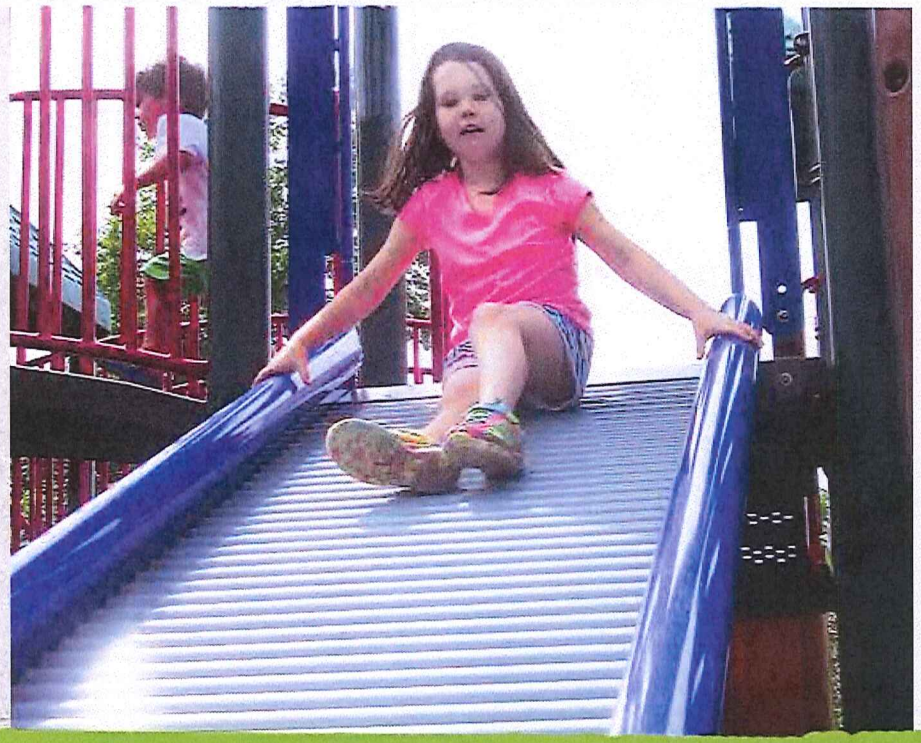
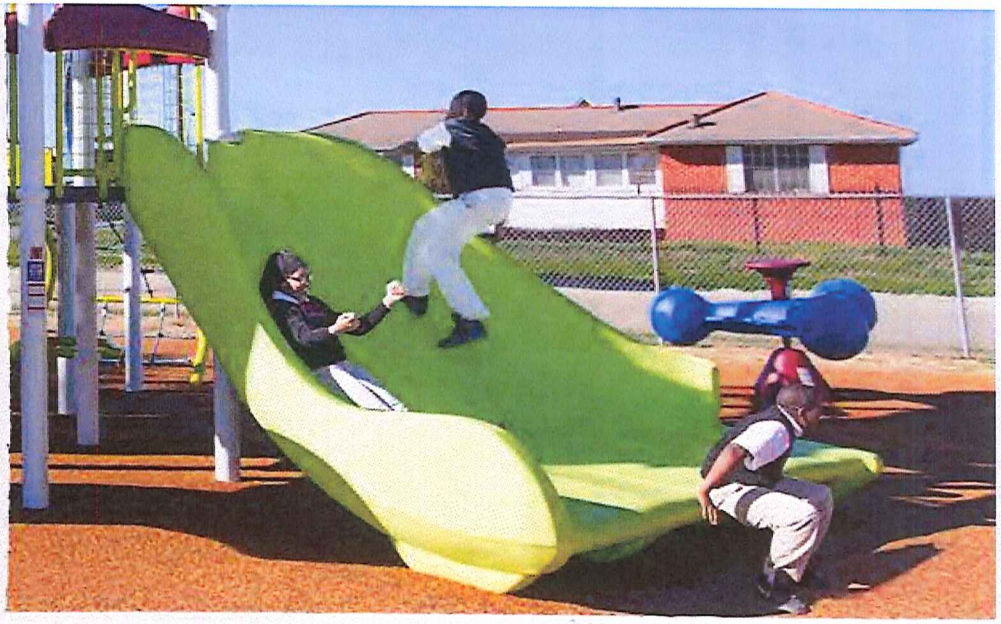
Roller Slide



SENSORY BENEFITS:

The Roller Slide offers a unique tactile component provided by the gentle but fun "bumps" that help propel the child down this slide. Combining movement (activating the vestibular sense) and push-pull actions to muscles and joints (activating the proprioceptive sense) touch sensation helps children to know where their bodies are and how to plan their actions-with toys, tools and when playing with peers.

Avalanche Inclusive Slide



SENSORY BENEFITS:

The Avalanche Inclusive Slide is great for developing upper body strength, and facilitates many other sensory motor skills. The unique width and design of this slide affords an opportunity for children to move up and down the slide in fun, novel and challenging ways. For children with autism and other sensory needs, having the chance to go down a slide that has enough room for a caregiver, older sibling or peer to offer side-by-side support is another bonus.

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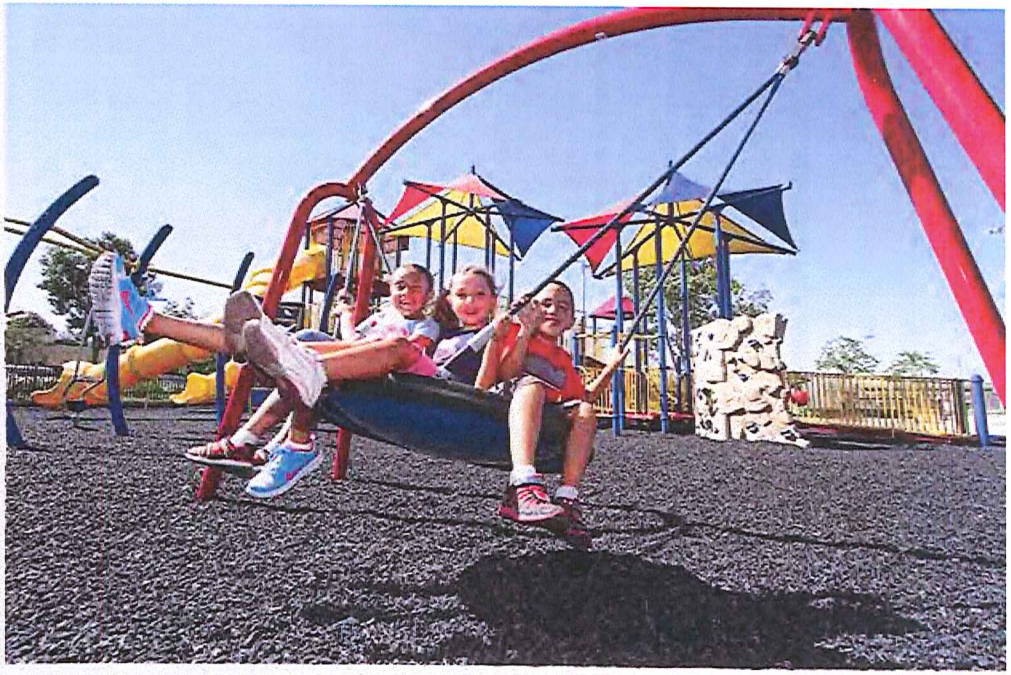
Accelerator Swing



SENSORY BENEFITS:

Up and down, side to side and all the way around - the Accelerator Swing helps activate and integrate the important sense of movement & gravity—the vestibular sense. The Accelerator Swing activates motion receptors beyond typical linear swinging and supports the ability to keep the body and head upright without slouching. This sort of intense movement is important and often hard to find.

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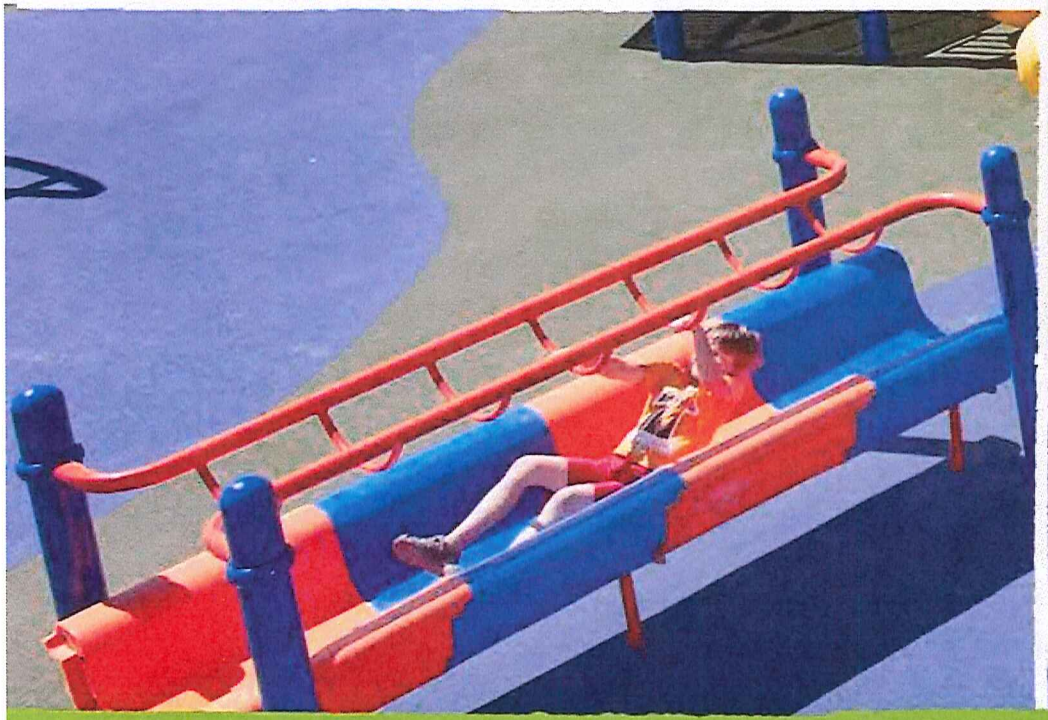
Pull Along



SENSORY BENEFITS:

Reach for the sky! This one-of-a-kind horizontal slider allows children to glide back and forth, providing deep muscle pressure that supports and develops the vital sense of body awareness - proprioception. Learning about position, grading of force and developing upper body strength and coordination are other benefits of the Pull Along.

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Reflex

SENSORY BENEFITS:

This highly interactive piece provides up- and- down movement that is hard to find on most playground equipment supports the development of balance, postural control, and core strength, as well as position awareness. In addition, a wonderful sense of team work and partnership is a natural consequence of this social and collaborative piece.

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Clover Leaf Sandbox

SENSORY BENEFITS:

Children can enjoy the nurturing and valuable elements of tactile play at the "just right" height for everyone. Some children experience the light touch of sand as irritating and in a regular sandbox this response can be elevated by the unpredictability of other children playing in and moving the sand around. The divided sections thus enable children to play among peers, while staying in their own personal space, and having a better sense of control of how much contact they have with the sand.

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Therapeutic Swing Seat

SENSORY BENEFITS:

This snug, supportive seat offers all children a high-flying ride, while providing a bit of help for keeping their balance and staying upright. For children with physical disabilities, the carefully designed seat offers a difficult to find opportunity for feeling the thrill of independently swinging high into the air. Some children who do have the physical ability to sit independently in a swing may have sensory issues which create uneasiness or fear when sitting unsupported. The cozy and secure nature of this swing provides a way for all children to benefit from the simple pleasure of swinging - a sensation that is important for developing balance, equilibrium, coordinating actions on the right and left sides of the body and tracking with the eyes.

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Interactive Play Panels

SENSORY BENEFITS:

With these interactive panels, all children can enjoy the nurturing and valuable elements of tactile play at the "just right" height for everyone. Children with inefficient touch perception, limited play skills or motor challenges may not be able to engage fully in many typical play activities that help children to develop the tactile sense. Without a strong sense of touch, planning fine motor actions (such as buttoning or holding a pencil) are extremely difficult. Interactive Play Panels offers all children the chance to explore and engage in tactile play, which in turn helps them develop skills for life!

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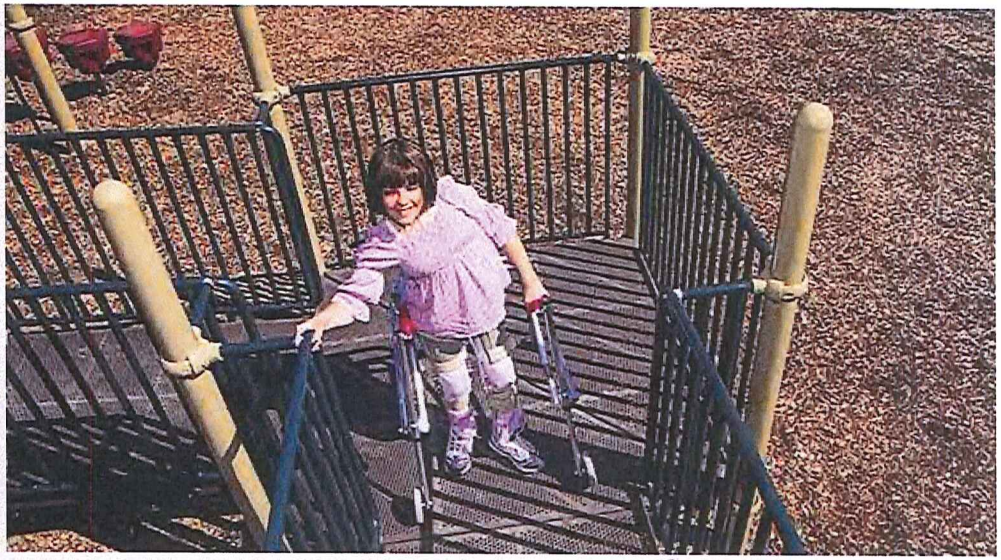
Ramps, Decks & Transfer Points



SENSORY BENEFITS:

While ramps and transfer points provide essential supports for children you need special access to playground equipment, they also provide a fun and purposeful challenge for all children. Learning to negotiate varying heights and grades of inclines can be a perfect first step for children who struggle with motor planning on more demanding or complex play pieces. Simply having enough space to traverse pathways and plan routes to crisscross over to a friend can foster imagination, enhance problem solving and enhance spatial awareness and orientation.

Smother Park, Owensboro, KY

- Largest continuing ADA Accessible playground in the U.S
- Ranked in the top 20 of the best 50 Playgrounds in the U.S.
- Built for the City of Owensboro, KY
- One structure for ages 2-5 and another for 5-12 combine to accommodate 600+ children
- Playground cost was approximately $3.5 million. This includes approximately $1.1 million for the custom trees, all custom components, poured in place/turf surfacing and installation
- Park measures 25,000 Square Feet with over 500 Feet of accessible ramps
- Nearly every play activity is accessible
- https://www.youtube.com/watch?v=ZSgqB09lQ9M

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Roll Around the Park, Whitehouse, TN

- Miracle donated the playground to honor brothers Conner and Cayden Long. Cayden was born with hypertonic cerebral palsy, and Conner has always pushed for him to have the same experiences as any other child.
- 4,700 square foot playground
- 200+ volunteers assisted with the installation in March 2014
- The park's features are all accessible components designed for children ages 5-12
- Inclusive pieces designed to encourage sensory play include an Accelerator Swing, Ten Spin, Pull Along and various interactive play panels for all to enjoy
- https://www.youtube.com/watch?v=lKKjmtpu-Sg

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ARISE at the Farm, Chittenango, NY

- ARISE at the Farm sits on 77 acres and works to provide opportunities for people with disabilities to live independently in the community.
- The playground is fully wheelchair accessible with multiple points of entry
- Unique equipment helps build strength and improve balance, including a custom Ten Spin, a Reflex, Hand Peddlers, Therapeutic Rings and more
- Appeals to the vision or hearing impaired by providing activities with instruments & chimes for sound stimulation.
- All-weather rubberized surface allows true independence for users with mobility devices
- A large central awning provides shade to visitors, and a walking track around the outer edge allows parents to watch children play, or added exercise or stretching for those in wheelchairs
- https://www.youtube.com/watch?v=eRPs1rJp14c

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