

3.5 Total Acres

Gravel Path



Benches as sculpture



Benches as retaining walls
R/W



Raised Planting Beds



Raised Planting Bed



Native plants for pollinators



Native plants for pollinators



Native plants for pollinators

WATERS ROAD

SILVER SPRING DRIVE

OAK VALLEY DRIVE



Playground for multiple age groups and abilities



Trail Benches



Path in the woods



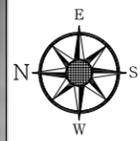
Healthy woods and understory

Exhibit Prepared by: Exhibit Prepared for:



WATERS · OAK VALLEY PARK
Pittsfield Charter Township
Concept Plan

0' 30' 60'
April 15, 2019

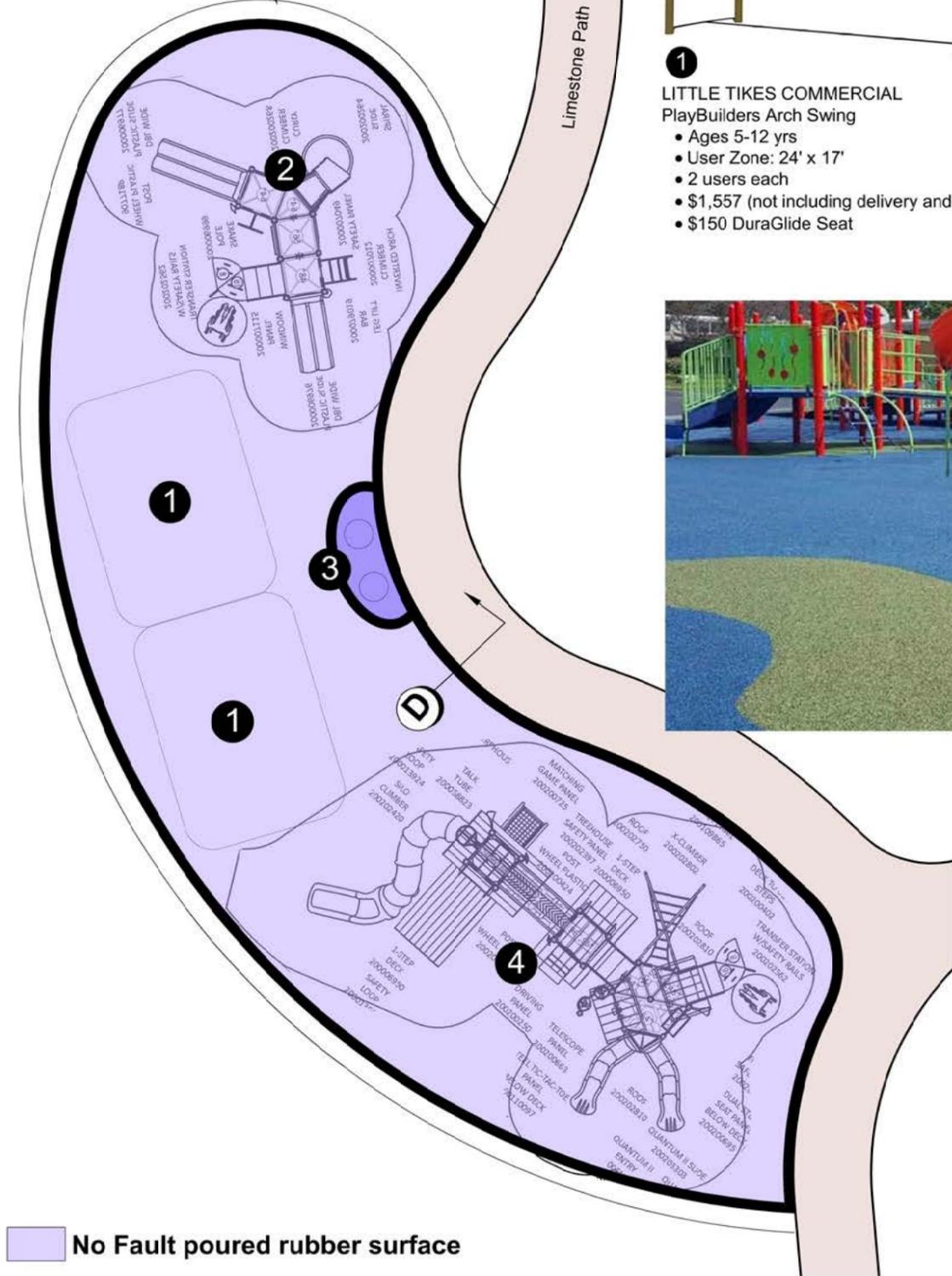


SHEET
1 of 3

flabby V:\2017\active\3075140800\Water oak valley park MidDrawing\2019 4 15\2019 4 15 exhibit\dwg Plotlist: 4/15/19 at 10:55am

Retaining Wall
See Detail 2, Sheet 3

Limestone Path



No Fault poured rubber surface



DuraGlide Seat

1
LITTLE TIKES COMMERCIAL
PlayBuilders Arch Swing

- Ages 5-12 yrs
- User Zone: 24' x 17'
- 2 users each
- \$1,557 (not including delivery and labor to install)
- \$150 DuraGlide Seat



Wheelchair Swing



Tot Seat



No Fault surface image



3
LANDSCAPE STRUCTURES
SuperScoop

- Ages 1-12 yrs
- User Zone: 3' diameter
- 1 user each
- \$1,000



2
LITTLE TIKES COMMERCIAL
Max Play 1

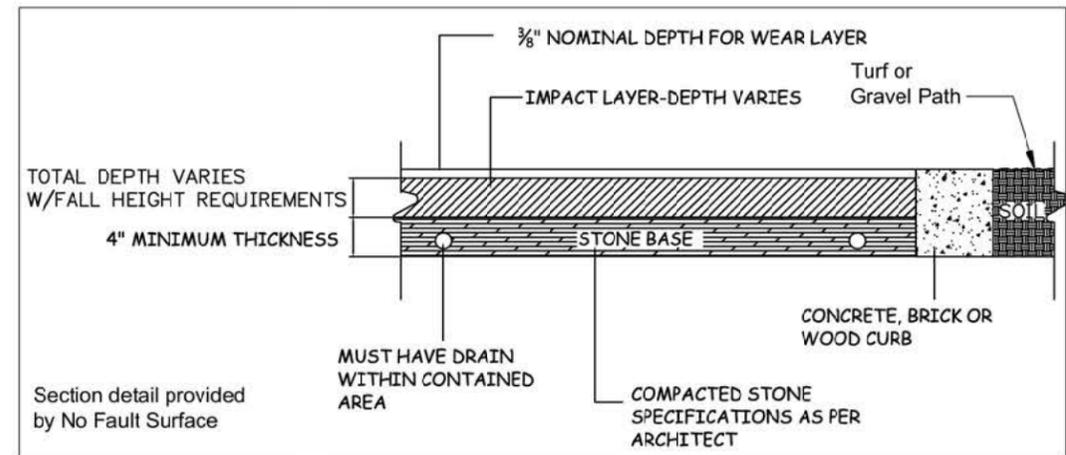
- Ages 2-5 yrs
- User Zone: 29' x 31'
- 42 users
- \$21,400 (not including, delivery and labor to install)



4
LITTLE TIKES COMMERCIAL
Nu-Edge NE19-071030

- Ages 5-12 yrs
- User Zone: 60' x 42'
- 73 users
- \$96,700 (not including, delivery and labor to install)

Fall Height Chart	
Depth	Fall Height
1.75"	4'
2.25"	5'
2.5"	6'
3"	7'
3.5"	8'
4.5"	9'
5"	10'
6.5"	12'



D No Fault surface section

Exhibit Prepared for:



Exhibit Prepared by:



WATERS - OAK VALLEY PARK

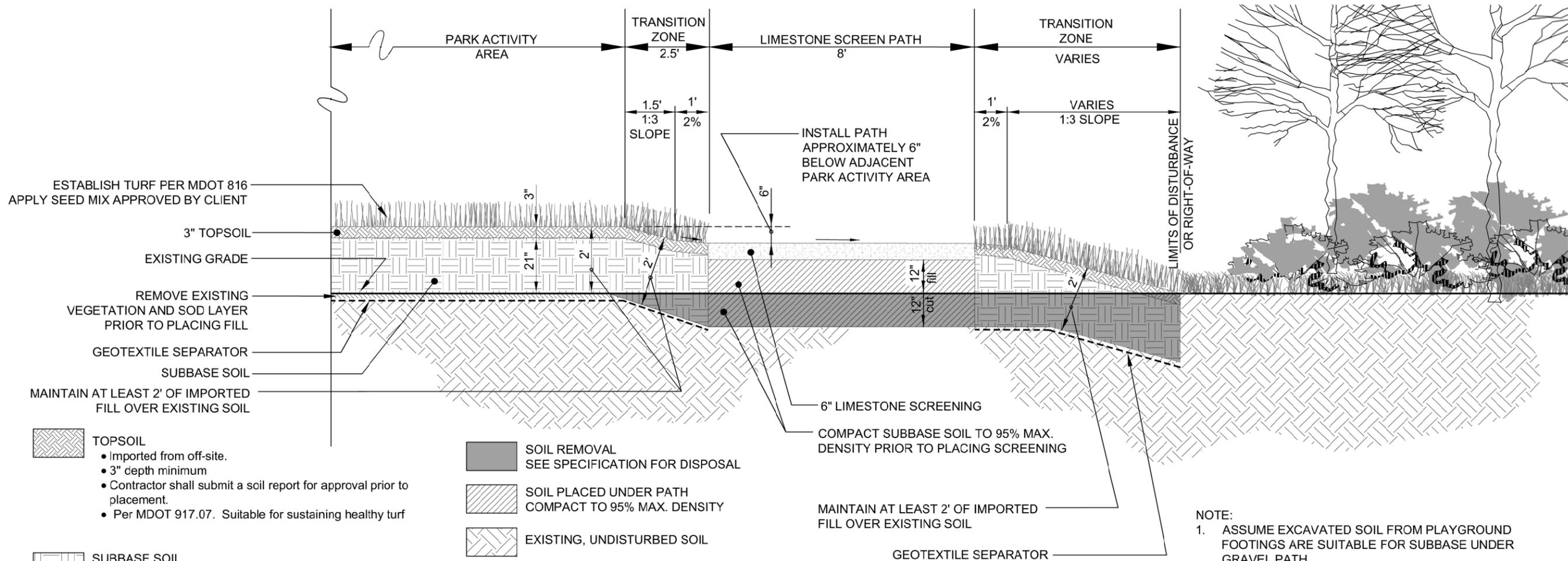
Pittsfield Charter Township

Concept Plan

April 15, 2019

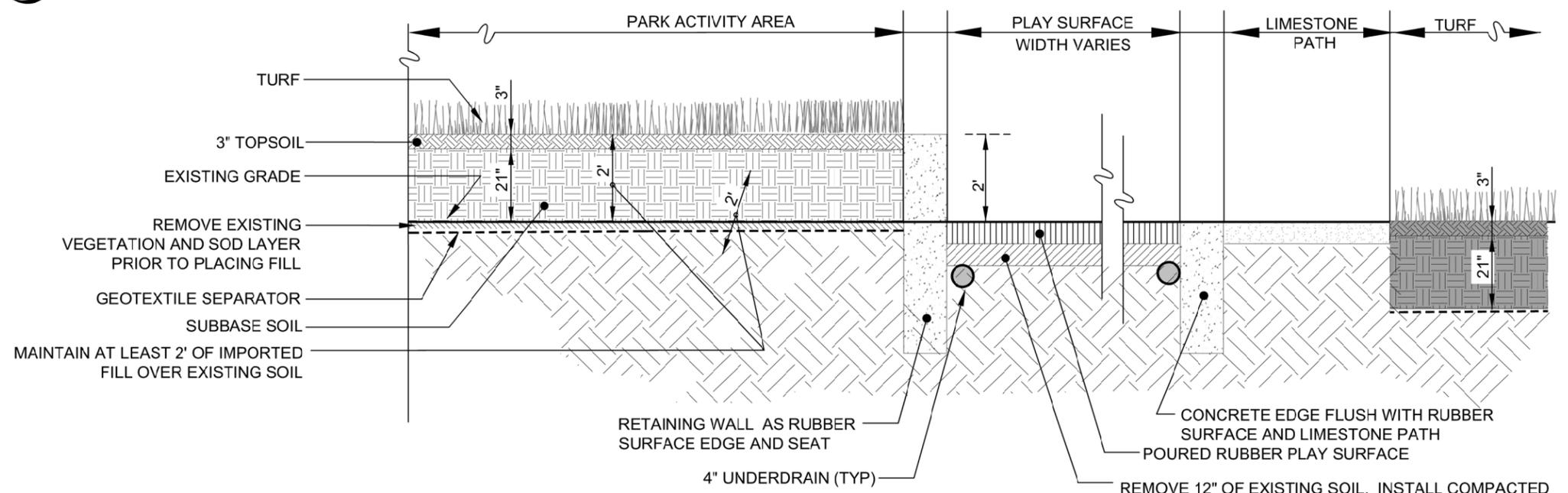
SHEET
2 of 3

Paddy V:\2017\wade\2017\14000\Waters - oak valley park MFC\wmg\2018 4 15\2018 4 15\wbl\dwg Plotted: 4/17/19 at 10:15am



- NOTE:
1. ASSUME EXCAVATED SOIL FROM PLAYGROUND FOOTINGS ARE SUITABLE FOR SUBBASE UNDER GRAVEL PATH.
 2. INSTALL GEOTEXTILE SEPARATOR PER MDOT 910.03 C. NOT NECESSARY UNDER PATH OR Poured RUBBER PLAY SURFACE.

1/3 SECTION



- TOPSOIL**
- Imported from off-site.
 - 3" depth minimum
 - Contractor shall submit a soil report for approval prior to placement.
 - Per MDOT 917.07. Suitable for sustaining healthy turf
- SUBBASE SOIL**
- Imported from off-site.
 - 21" minimum depth
 - Contractor shall submit a soil report for approval prior to placement.
 - Per MDOT 205. Compact in place embankment material
- SOIL REMOVAL**
SEE SPECIFICATION FOR DISPOSAL
- SOIL PLACED UNDER PATH**
COMPACT TO 95% MAX. DENSITY
- EXISTING, UNDISTURBED SOIL**

2/3 RUBBER SURFACE WITH RETAINING WALL ONE SIDE

jbooby V:\2017\active\507514000\Waters oak valley park Mfdrawing\2019 4 15\2019 4 15 exhibit.dwg Plotted: 4/15/19 at 10:50am

General Notes:

Age Group

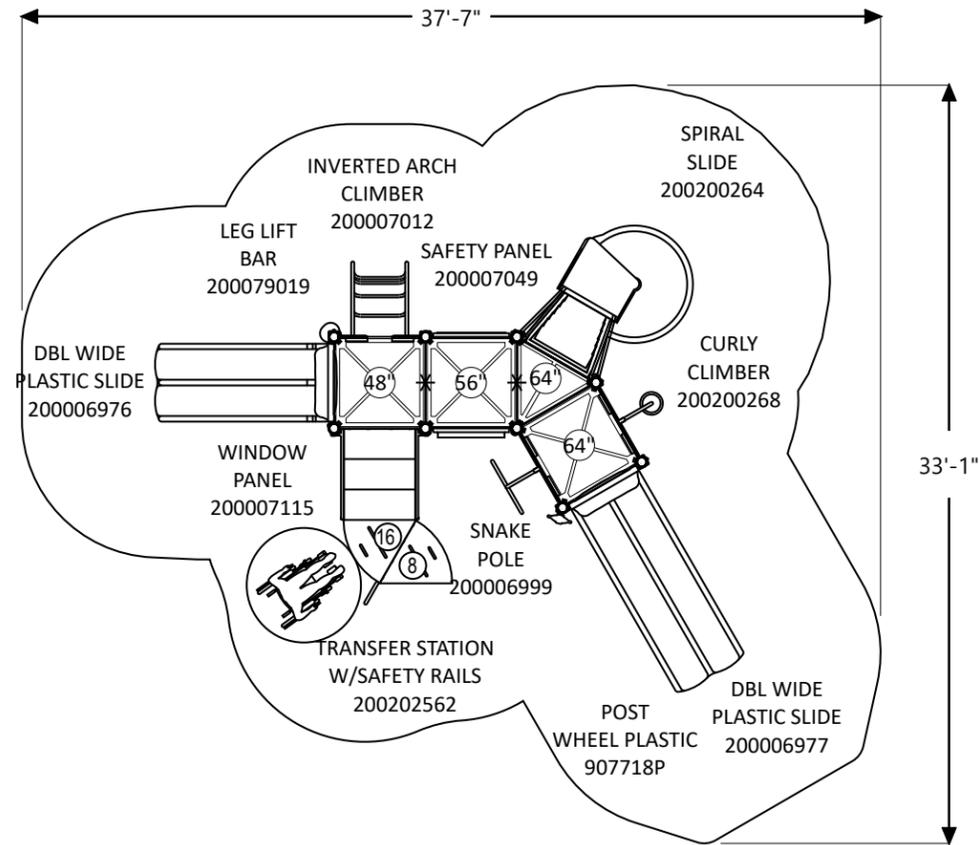
2-5yrs 5-12 yrs 2-12yrs 13+ yrs

1. The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your legal counsel to determine if the ADA applies to you.
2. For playground equipment to be considered accessible, accessible surfacing must be utilized in applicable areas.
3. Although a particular playground design may not meet the proposed Access Board Regulations in regards to the appropriate number of ground level events, the actual playground may be in compliance when considering existing play components.
4. All deck heights are measured from top of ground cover.
5. Fall absorbing ground cover is required under and around all play equipment.
6. The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots, rocks, border material, etc.).
7. All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post.
8. Not all equipment may be appropriate for all children. Supervision is required.

AGE GROUP: 2-5
 ELEVATED PLAY ACTIVITIES - TOTAL: 6
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 6 REQ'D 3
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 0 REQ'D 0
 GROUND LEVEL ACTIVITY TYPE: 2 REQ'D 2
 GROUND LEVEL QUANTITY: 2 REQ'D 2



Playgrounds Fun & Easy!



Project:
 KB19-071318
 MONETT, MO
LTCPS rep:
 DONNA FRIEDMAN
 Playpower
 573-915-7740

Ground Space: 26'-6" x 22'-6"
Protective Area: 38'-0" x 33'-6"

Drawn by: Donna Friedman
Date: 11/8/2018
DWG Name: 0000_42639470006

LTCPS - Farmington
 878 East Highway 60
 Monett, Missouri 65708
Voice: 1-800-325-8828
Fax: 417-354-2273

Playground Layout Compliance:

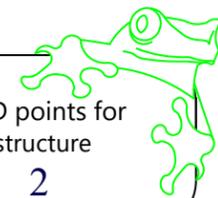
- ASTM F1487 - Playground Equipment for Public Use.
- CPSC Handbook for Public Playground Safety

This playground design meets the final Access Board Regulations.



The play components identified in this plan are IPEMA certified. The use and layout of these components conform to the requirements of ASTM F1487.

LEED points for this structure
 2



General Notes:

Age Group

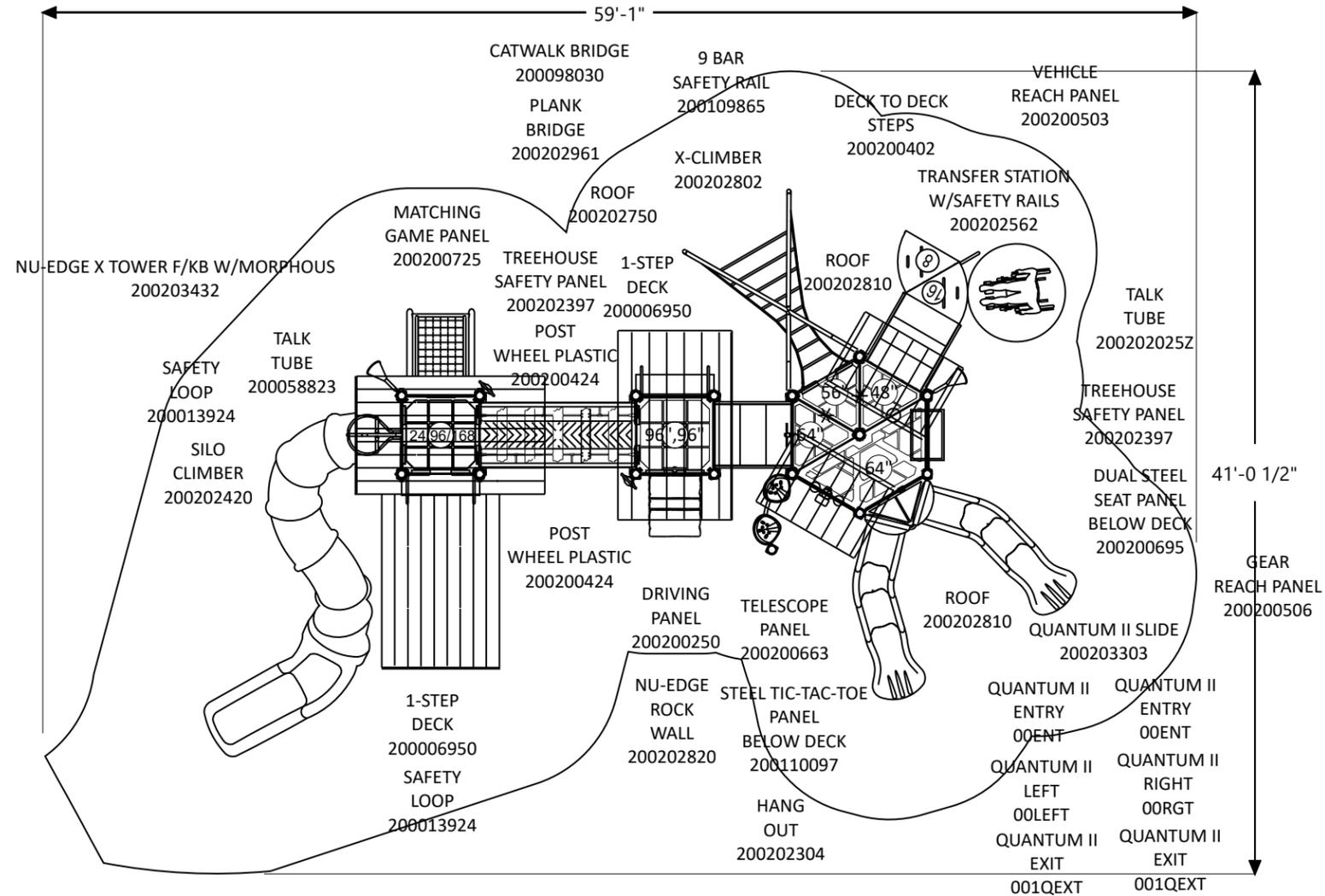
2-5yrs 5-12 yrs 2-12yrs 13+ yrs

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5. Fall absorbing ground cover is required under and around all play equipment.
6. The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots, rocks, border material, etc.).
7. All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post.
8. Not all equipment may be appropriate for all children. Supervision is required.

AGE GROUP: 5-12
 ELEVATED PLAY ACTIVITIES - TOTAL: 17
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 9 REQ'D 9
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 0 REQ'D 0
 GROUND LEVEL ACTIVITY TYPE: 6 REQ'D 3
 GROUND LEVEL QUANTITY: 9 REQ'D 6



Playgrounds Fun & Easy!



Project:
 NE19-071030 2019 CATALOG
 MONETT, MO
LTCPS rep:
 DONNA FRIEDMAN
 PPLT
 573-915-7740

Ground Space: 45'-6" x 29'-6"
 Protective Area: 59'-0" x 41'-6"

Drawn by: Donna Friedman
 Date: 8/28/2017
 DWG Name: 0000_42975342641

LTCPS - Farmington
 878 East Highway 60
 Monett, Missouri 65708
 Voice: 1-800-325-8828
 Fax: 417-354-2273

Playground Layout Compliance:

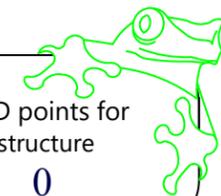
- ASTM F1487 - Playground Equipment for Public Use.
- CPSC Handbook for Public Playground Safety

- This playground design meets the final Access Board Regulations.



The play components identified in this plan are IPEMA certified. The use and layout of these components conform to the requirements of ASTM F1487.

LEED points for this structure
 0



STANTEC CONSULTING MICHIGAN - ENGINEER'S OPINION OF CONSTRUCTION COST



Pittsfield Charter Township

Waters / Oak Valley Park north of stream
North 1/3 of site (north of stream)

Conceptual	X
Preliminary	
Final (As Bid)	

Project Number: 2075140800
Prepared By: JEL
Checked By:
Date: April 17, 2019

DESCRIPTION		QUANT.	UNIT	UNIT COST	TOTAL COST
Work By Contractor					
1	Mobilization: signage, staging, bonds, etc.	1	LSUM	\$10,000.00	\$10,000
2	Construction Staking	1	LSUM	\$7,500.00	\$7,500
3	Import subbase soil, 21" turf and pollinator area , 5 mile haul, no compaction	2,264	Cyd	\$40.00	\$90,560
4	Import topsoil, 3" turf and pollinator areas, 5 mile haul, fine grade	323	Cyd	\$30.00	\$9,690
5	Place topsoil, fine grade,	323	Cyd	\$20.00	\$6,460
6	Remove existing sod layer, turf and pollinator area only	35	MSF	\$30.00	\$1,050
7	Remove existing soil, \$30 + \$15 for contaminants	862	Cyd	\$45.00	\$38,790
8	Geotextile, Separator - under turf and pollinator areas	4,000	Syd	\$1.00	\$4,000
9	Seed, straw, fertilize - turf areas	3,262	Syd	\$2.50	\$8,155
10	Seed pollinator areas,	618	Syd	\$5.00	\$3,090
11	Pollinator plants, 2 gallon, random placement throughout pollinator area, 5'x5' spacing rate	240	EA	\$25.00	\$6,000
12	Pollinator seed bed prep, weed seed eradication, invasive removals	1	EA	\$5,000.00	\$5,000
13					
14	Erosion Control, Silt Fence, project perimeter	879	Ft	\$1.50	\$1,319
15	Mudmat Access Road	1	LSUM	\$5,000.00	\$5,000
16	Limestone screens for gravel path, 6876 sf, 6" depth, 127 cy	254	TON	\$25.00	\$6,350
17	Import subbase soil under path, compact to 95% density, 6953 sf, 24" deep	515	Cyd	\$50.00	\$25,750
18	Contaminated Soil Disposal Allowance	1	LSUM	\$10,000.00	\$10,000
19	Playground: 5-12 yrs product	1	EA	\$96,700.00	\$96,700
20	Playground: 5-12 yrs labor, 15 holes	1	Ea	\$20,000.00	\$20,000
21	Playground: 2-5 yrs product	1	Ea	\$21,400.00	\$21,400
22	Playground: 2-5 yrs labor, 10 holes	1	Ea	\$10,000.00	\$10,000
23	Playground: swings (3-bay, 2 swings, 1 wheelchair swing) Bluegrass or equal	1	EA	\$4,200.00	\$4,200
24	Playground: swings labor	2	EA	\$500.00	\$1,000
25	Playground: SuperScoop	2	EA	\$1,000.00	\$2,000
26	Playground: poured rubber surface, 4" thick black, 2" thick topping with colors	4,614	SF	\$30.00	\$138,420
27	Playground: play sand for SuperScoop, 24" deep x 50 sf	4	Cyd	\$50.00	\$200
28	Playground: concrete edge adjacent path, 8" wide, 42" deep, poured	109	Ft	\$25.00	\$2,725
29	Playground: concrete edge adjacent turf, 8" wide, 42" deep, poured	150	Ft	\$25.00	\$3,750
30	Playground: concrete wall adjacent turf, 8" wide, 217' long, 2' tall	434	SF	\$50.00	\$21,700
31	Bench	3	EA	\$500.00	\$1,500
32	Trash Can	3	EA	\$300.00	\$900
33	Bike Rack	1	Ea	\$1,000.00	\$1,000
34	Sculpture benches	20	EA	\$500.00	\$10,000
35	4" Underdrain in rubber surface play area	284	LF	\$18.00	\$5,112
SUBTOTAL ESTIMATE					\$579,000
				CONSTRUCTION CONTINGENCIES	20%
					\$116,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST NORTH					\$695,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST MIDDLE					\$260,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST SOUTH					\$30,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST					\$985,000

NOTE: The ENGINEER has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's method of determining prices, or over competitive bidding or market conditions. Opinions of probable project costs and construction costs provided herein are made on the basis of the ENGINEER'S professional judgement and experience. The ENGINEER cannot and does not guarantee that proposals, bids or actual project or construction costs will not vary from the prepared opinion of probable cost.

STANTEC CONSULTING MICHIGAN - ENGINEER'S OPINION OF CONSTRUCTION COST



Pittsfield Charter Township

Waters / Oak Valley Park
Middle 1/3 of site (south of stream, north of woods)

Conceptual	X
Preliminary	
Final (As Bid)	

Project Number: 2075140800
 Prepared By: JEL
 Checked By:
 Date: April 15, 2019

DESCRIPTION		QUANT.	UNIT	UNIT COST	TOTAL COST
Work By Contractor					
1	Mobilization: signage, staging, bonds, etc.	1	LSUM	\$10,000.00	\$10,000
2	Construction Staking	1	LSUM	\$7,500.00	\$5,000
3	Import subbase soil, 21" turf area , 5 mile haul, no compaction	2,594	Cyd	\$40.00	\$103,760
4	Import topsoil, 3" turf areas, 5 mile haul, fine grade	370	Cyd	\$30.00	\$11,100
5	Place topsoil, fine grade,	370	Cyd	\$20.00	\$7,400
6	Remove existing sod layer, turf area only	40	MSF	\$30.00	\$1,200
7	Remove existing soil under turf areas adjacent path and woods	521	Cyd	\$30.00	\$15,630
8	Contaminated Soil Disposal Allowance	1	LSUM	\$10,000.00	\$10,000
9	Geotextile, Separator - under turf	4,448	Syd	\$1.00	\$4,448
10	Seed, straw, fertilize - turf areas	4,448	Syd	\$2.50	\$11,120
11					
12	Erosion Control, Silt Fence, project perimeter	882	Ft	\$1.50	\$1,323
13	Mudmat Access Road	1	LSUM	\$5,000.00	\$5,000
14	Limestone screens for gravel path, 5024 sf, 6" depth, 92cy	186	TON	\$25.00	\$4,650
15	Import subbase soil under path, compact to 95% density, 5024sf, 24" deep	372	Cyd	\$50.00	\$18,600
16	Remove topsoil under path, 5024, 12" dep	186	Cyd	\$30.00	\$5,580
17	Bench	3	EA	\$500.00	\$1,500
18	Trash Can	3	EA	\$300.00	\$900
19					
SUBTOTAL ESTIMATE					\$217,000
CONSTRUCTION CONTINGENCIES				20%	\$43,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST					\$260,000

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STANTEC CONSULTING MICHIGAN - ENGINEER'S OPINION OF CONSTRUCTION COST



Pittsfield Charter Township

Waters / Oak Valley Park
South 1/3 of site (south of woods)

Conceptual	X
Preliminary	
Final (As Bid)	

Project Number: 2075140800
 Prepared By: JEL
 Checked By:
 Date: April 15, 2019

DESCRIPTION		QUANT.	UNIT	UNIT COST	TOTAL COST
Work By Contractor					
1	Mobilization: signage, staging, bonds, etc.	1	LSUM	\$10,000.00	\$2,000
2	Construction Staking	1	LSUM	\$7,500.00	\$3,000
3	Remove existing soil under path	125	Cyd	\$30.00	\$3,750
4	Contaminated Soil Disposal Allowance	1	LSUM	\$5,000.00	\$5,000
5					
6	Mudmat Access Road	1	LSUM	\$5,000.00	\$5,000
7	Limestone screens for gravel path, 3373 sf, 6" depth, 62cy	124	TON	\$25.00	\$3,100
8	compact to 95% density, import not needed in south section	124	Cyd	\$15.00	\$1,860
9	Bench	1	EA	\$500.00	\$500
10	Trash Can	1	EA	\$300.00	\$300
11					
SUBTOTAL ESTIMATE					\$25,000
CONSTRUCTION CONTINGENCIES				20%	\$5,000
TOTAL ESTIMATED FINAL CONSTRUCTION COST					\$30,000

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