

# Memorandum

To: Brent Damman - Building & Zoning  
Administrator  
From: Adam C. Hoff, P.E. - City Engineer *ACH*  
cc: Jon Bisher, Tony Cotter, Jeff Marihugh  
Date: January 10, 2000  
Subject: Kidz Kingdom - Site Plan Review

I have received satisfactory responses to my comments regarding site drainage for the proposed Kidz Kingdom (see attached letter). Based upon my review of the plans submitted, I hereby approve the site plan as submitted. The proposed site will not create additional runoff from the site.

If you have any questions, please see me.

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**KIDZ  
KINGDOM**  
*Building the Dream Together*

RECEIVED

JAN 10 2000

CITY OF NAPOLEON

January 6, 2000

Mr. Adam Hoff, P.E.  
City Engineer  
City of Napoleon, Ohio  
255 West Riverview Avenue  
Napoleon, Ohio 43545-0515

Re: Kidz Kingdom Site Plan

Dear Mr. Hoff:

In response to your December 27, 1999 letter requesting additional information on the drainage system for the proposed playground complex, a cross section detailing the drainage system is enclosed. Detail 1 on the enclosure shows the cross section for Kidz Kingdom. The detail shows that a filter fabric will be placed on existing grade. No excavation is planned. Above the filter fabric is a four-inch layer of gravel, another layer of filter fabric and then the sixteen inches of woodfiber mulch.

As requested, four copies of the cross section are enclosed.

I hope this answers your questions. If you have any additional questions, please call me at work, Midwest Environmental Consultants, Inc., at (419) 891-1800 or at home at 592-2953.

Sincerely,

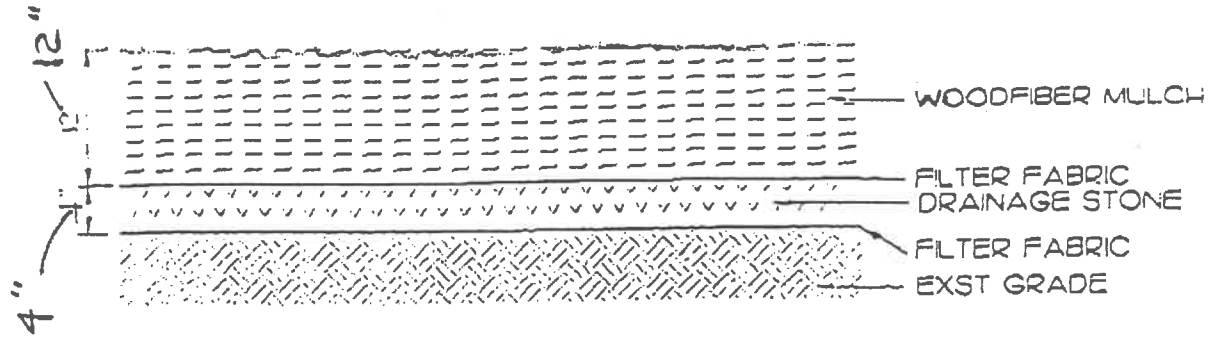


Timothy J. Schumm, P.E.  
Kidz Kingdom Tri-Chair

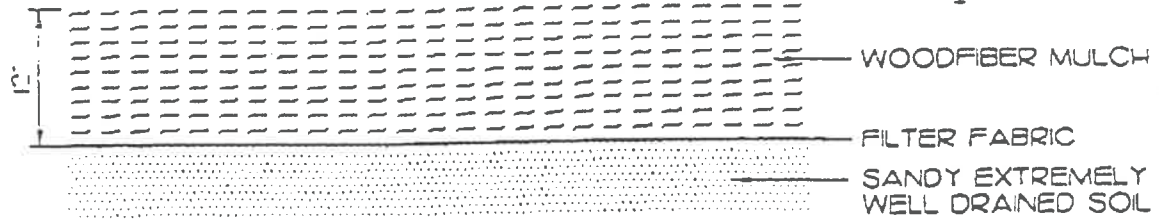
enclosures

Make Checks Payable To:  
Henry County Community Foundation  
C/O Operation Playground  
611 N. Perry St.  
Napoleon, OH 43545  
(419) 592-1786  
Bill Panning, Treasurer

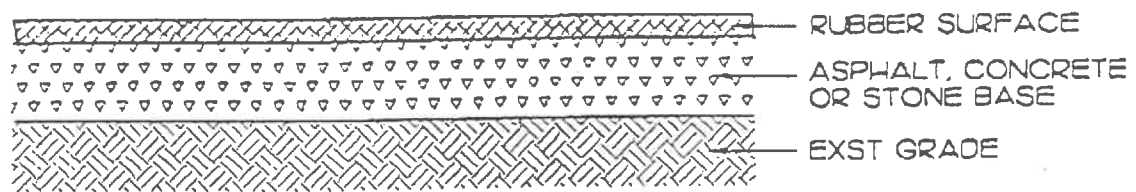
### SURFACING



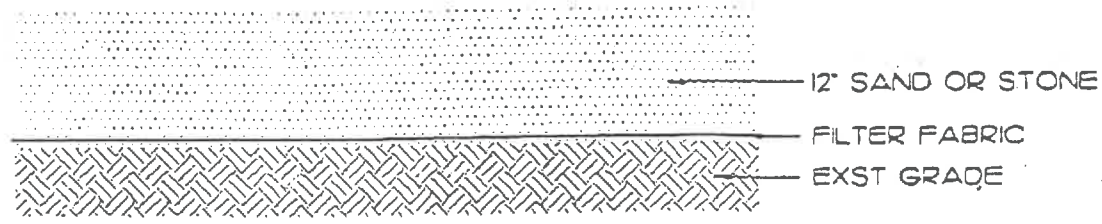
① WOOD FIBER - 16" PROFILE



② WOOD FIBER - 12" PROFILE



③ RUBBER



④ STONE OR SAND

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**LEATHERS & ASSOCIATES**  
 99 Eastlake Road  
 Ithaca NY 14850  
 Phone 607 277-1650  
 Fax 607 277-1333

**SURFACING**  
 3/4" x 1'-0"

Job Number:	Drawing No.
SURFACE	3
Drawn By:	
MSL	
Date:	
JAN 95	

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KINGDOM**  
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CITY OF NAPOLEON

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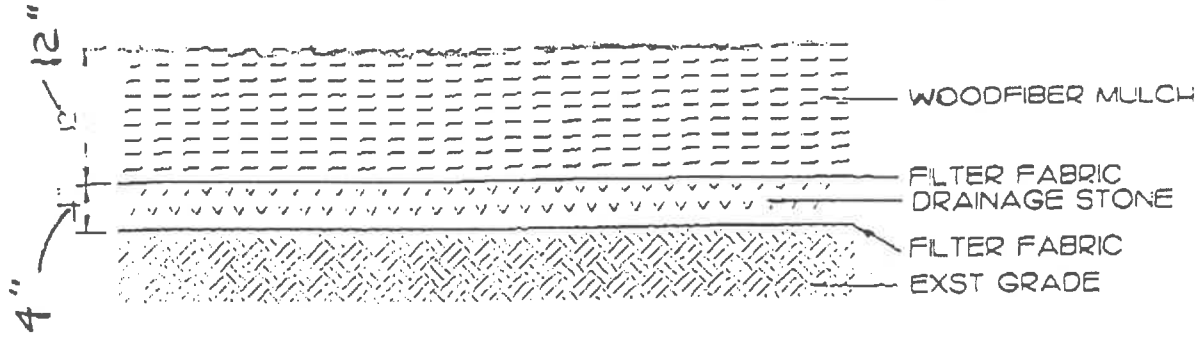


Timothy J. Schumm, P.E.  
Kidz Kingdom Tri-Chair

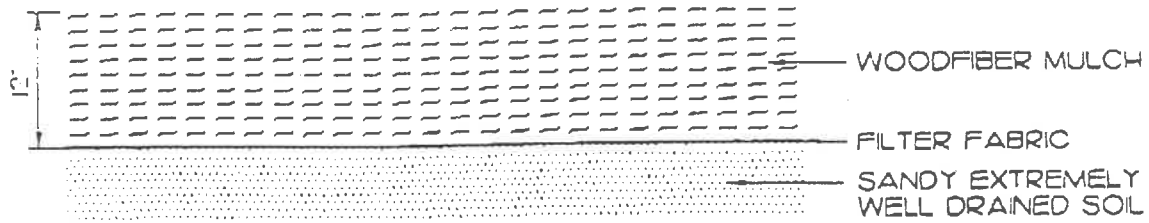
enclosures

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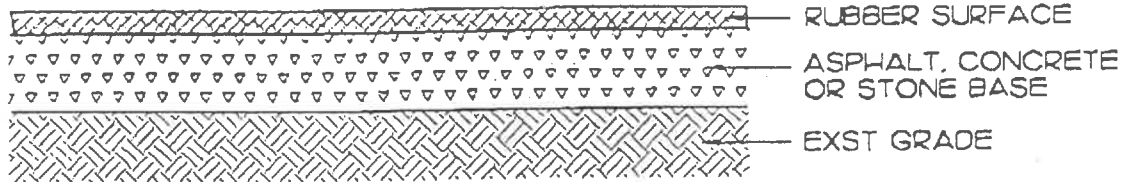
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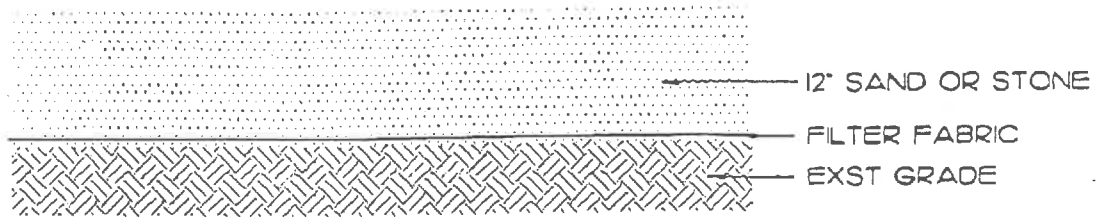
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## SURFACING

3/4" x 1'-0"

Job Number:	Drawing No.
SURFACE	3
Drawn By:	
MSL	
Date:	
JAN 95	



# City of NAPOLEON, OHIO

255 WEST RIVERVIEW AVENUE, P.O. BOX 151  
NAPOLEON, OHIO 43545-0151  
(419) 592-4010  
FAX (419) 599-8393



December 27, 1999

Ms. Christine M. Lankenau  
315 Briarcliff Drive  
Napoleon, Ohio 43545

Re: City of Napoleon  
Kidz Kingdom Site Plan Review

Mayor  
Donald M. Stange

Dear Ms. Lankenau:

Members of Council  
Michael J. DeWit, President  
Terri A. Williams  
James Hershberger  
Travis B. Sheaffer  
Char Weber  
David F. Miller, Jr.  
Glenn A. Miller

I have reviewed the site plan presented to the City for the proposed Kidz Kingdom complex and have some concerns regarding the drainage system, or lack thereof, for the proposed facility. The specifications for the proposed facility require that a drainage layer be provided and state that "The drainage system beneath the wood fiber varies depending upon your specific situation." The specifications further state that "The wood fiber must be separated from the drainage layer and the drainage layer must be separated from the existing ground by geotextile fabric." The site plan provided does not have a cross-sectional view of the facility showing any drainage layer, only a reference to sixteen (16) inches of wood fiber.

City Manager  
Dr. Jon A. Bisher

Additionally, it is unclear from the site plan as to whether the area for the proposed facility is to be excavated below the existing grade of the proposed site or if the facility will be placed on the surface. If the area is to be excavated, subsurface drainage (i.e. - perforated tile) will also be required as the soils at the proposed site are heavy clays and rain water that leaches through the wood chips will not dissipate quickly. In essence, any excavation would act very much like a pond without some form of subsurface drainage.

Finance Director  
Gregory J. Heath

Law Director  
David M. Grahn

Please have the required cross-sections showing details of the drainage layer prepared and provide my office with four (4) copies for our review. Also, if the area is to be excavated, please provide my office with four (4) copies of a drainage plan for the site. This information will be required prior to the issuance of a zoning permit by the City.

City Engineer  
Adam C. Hoff, P.E.

If you have any questions or require further information, please call my office at (419) 592-4010.

Yours truly,

Adam C. Hoff, P.E.  
City Engineer

ACH:rd

cc: Dr. Jon A. Bisher, City Manager  
Mr. Tony Cotter, Parks & Recreation Director  
Mr. Brent Damman, Bldg. & Zoning Administrator  
Mr. Matt Gloor

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Records Retention ENG-018 Permanent

# *Memorandum*

*To: Brent Damman - Zoning Administrator*  
*From: Adam C. Hoff, P.E. - City Engineer* *ACH*  
*cc: Jon Bisher, Tony Cotter, Jeff Marihugh*  
*Date: November 8, 1999*  
*Subject: Kidz Kingdom - Plan Review*

Based upon my review of the preliminary plans submitted for the referenced project, it is my recommendation that details for site drainage and under drains need to be provided prior to the approval of the plan. As currently proposed, it appears that the plan requires excavation for the placement of sixteen (16) inches of wood chips. As the proposed site has primarily heavy clay soils, I am concerned that the excavated area will retain water causing the proposed wood chips to decompose. It is my recommendation that the excavated areas be sloped to an underdrain system and overlaid with at least six (6) inches of stone beneath the wood chips.

If you have any questions, please see me.

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3 November 1999

TO: Spring 2000 Playground Projects  
FROM: Cathy Hoover, Community Organizer  
SUBJECT: Groundcover approval process

Because safety is always of paramount importance on Leathers' playgrounds, we must change the procedure for having your wood fiber approved. The surfacing material that you use for your project must now meet two standards required by the American Society for Testing and Materials (ASTM):

- ASTM F1292 Standard Specification for Impact Attenuation for Surface Systems Under and Around Playground Equipment, and
- ASTM F1951 (formerly PS83) Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment

Meeting these standards will help ensure that your project is built to all necessary standards regarding impact attenuation and accessibility.

We can recommend several sources that have already had their products tested for the two standards and have provided us with a copy of the lab test results showing that they meet both standards. If you obtain your wood fiber from one of these sources, just send us a letter confirming this and giving us the name and address of the supplier. If you obtain your wood fiber from a manufacturer that is not on our list of approved sources, send us a letter stating that their product meets both ASTM standards. We also will need a copy of the manufacturer's lab test results.

The Fibar Group has the longest history of providing good service and a safe, high-quality product to our clients. Fibar has a 15-year performance warranty as well as product liability insurance. The Fibar Group has representatives throughout the U.S. and Canada, so that in all likelihood, you will be able to obtain your Fibar from a nearby location. The combination of these qualities has made Fibar a preferred source. Other approved sources include Wood Carpet, Safe Site Systems, and Haessly Hardwood Lumber. Contact information is listed in your Final Materials List. We can also fax that information to you.

For further information or if you have any questions, please feel free to call and talk to your Project Manager.

Enclosed is the new specification sheet. Please replace the wood fiber specification sheet with this one in your materials list.

*Founding Member: Community Built Association*

*Leathers & Associates, Inc. • 99 Eastlake Road, Ithaca, NY 14850 • 607 277-1650*

*Fax: 607 277-1433 • E-mail: leathers@leathersassociates.com • Web: www.leathersassociates.com*



## PLAYGROUND SURFACING SPECIFICATIONS

The wood fiber playground surfaces used on Leathers' playgrounds consist of specially chipped and shredded wood fibers, manufactured specifically for playground use. The system consists of 12" of wood fiber (once compacted) and a drainage system beneath.

The drainage system beneath the wood fiber varies depending on your specific situation. On extremely sandy, well-drained sites, there may be no need for additional drainage. Some manufacturers can supply specially designed lightweight drainage systems with their product. Most commonly, however, a stone drainage system is placed beneath the wood fiber. The stone for this can be obtained locally. Generally, you may use whatever stone is typically used in your area for drainage. It can be crushed or natural. It must have stones no larger than 3/4", as the aggregates over 3/4" in size are difficult for volunteers to rake and shovel. You should also consult the supplier of your wood fiber for their recommendation on the drainage stone.

The wood fiber must be separated from the drainage layer and the drainage layer must be separated from the existing ground by geotextile fabric. The suppliers of the wood fiber can provide this fabric or you can obtain it locally. Fabric typical to this application is a 4 oz./sq.yd. non-woven needle punch. The material should be obtained in rolls approximately 6' wide.

These systems can be placed directly over existing asphalt or concrete. Consult the manufacturer for information on how this can be accomplished. Some suppliers can also provide mats to place under heavy wear areas such as swings and slides. You may want to discuss this option with your committee and the wood fiber supplier.

The wood fiber surfacing material that you use for your project must meet two standards required by the American Society for Testing and Materials (ASTM): (1) ASTM F1292 Standard Specification for Impact Attenuation for Surface Systems Under and Around Playground Equipment, and (2) ASTM F1951 (formerly PS83) Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment. Meeting these standards will help ensure that your project is built to all necessary standards regarding impact attenuation and accessibility.

Several sources have already had their products tested for the two standards and have provided us with a copy of the lab test results showing that they meet those standards. If you obtain your wood fiber from one of them, just send us a letter confirming this and giving us the name and address of the supplier. If your wood fiber is obtained from another source, we need a letter stating that their product meets both ASTM standards and a copy of the manufacturer's lab test results.

The companies listed below are aware of our process and both ASTM specifications. They have supplied quality material to past projects. Most suppliers will sell this surface on a square-foot basis. If you purchase it on a cubic-yard basis, be sure they have converted it properly. Square feet of wood fiber x .05=cubic yards of product.

The Fibar Group has the longest history of providing good service and a safe, high-quality product to our clients. Fibar has a 15-year performance warranty as well as product liability insurance. In addition, they have representatives throughout the U.S. and Canada, so that your Fibar may be obtained from a nearby location. The combination of these qualities has made Fibar a preferred source.

**The Fibar Group  
Wood Carpet**

**Safe Site Systems  
Haessly Hardwood Lumber Co.**