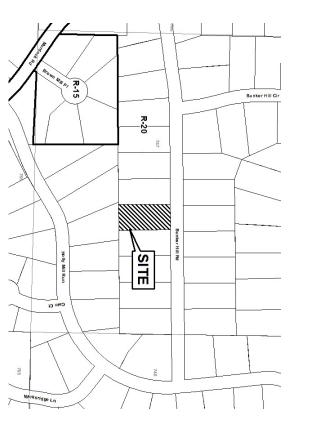


APPLICANT:	Robert Dawkins	PETITION No.:	V-111
PHONE:	770-578-4999	DATE OF HEARING:	11-12-2014
REPRESENTAT	REPRESENTATIVE: Robert Dawkins	PRESENT ZONING:	R-20
PHONE:	770-578-4999	LAND LOT(S):	747
TITLEHOLDER:	Robert D. Dawkins, Jr. and Roseanne E. Dawkins	DISTRICT:	16
PROPERTY LO	PROPERTY LOCATION: On the south side of	SIZE OF TRACT:	0.46 acre
Bunker Hill Road	Bunker Hill Road, east of Bunker Hill Circle	COMMISSION DISTRICT: 3	3
(3096 Bunker Hill Road).	Road).		

an accessory structure (proposed one car garage) to the side of the primary structure. requirement of parking on a treated and hardened surface to allow a commercially available reinforced concrete TYPE OF VARIANCE: pervious pavement alternative "Grasscrete" in order to achieve effective impervious coverage of 34.8%; and 3) allow 160 square foot existing shed) from the required 35 feet to 10 feet adjacent to the south property line; 2) waive the 1) Waive the rear setback for an accessory structure over 144 square feet (approximately

OPPOSITION: No. OPPOSED	
ETITION No.	
SPOKESMAN	

BOARD OF APP APPROVED REJECTED	BOARD OF APPEALS DECISION APPROVED MOTION BY REJECTED SECONDED
REJECTED	SECONDED
HELD CA	CARRIED
STIPULATIONS:	



APPLICANT: **Robert Dawkins** PETITION No.:

COMMENTS

TRAFFIC: This request will not have an adverse impact on the transportation network.

DEVELOPMENT & INSPECTIONS: No comment.

the Site Plan Review Section, Community Development Agency for review and approval prior to referencing the variance case in the standard plat revision note. The surveyor must submit the plat to recorded prior to the issuance of the certificate of occupancy showing all improvements on the lot and SITE PLAN REVIEW: If this variance request is approved, a subdivision plat revision must be recording. Call 770-528-2147.

of the grass strips being utilized for the driveway. grasscrete parking pad at the front of the house be extended across the driveway to protect the stability The product must be installed per the manufacturer's specifications. STORMWATER MANAGEMENT: Stormwater Management Division. Grasscrete is an acceptable pervious pavement alternative. The final layout must be approved by the It is recommended that the

impact or treatment of historic and/or archaeological resources. property surveys, county maps, and various other resources, staff has no comments regarding the HISTORIC PRESERVATION: After examining Civil War trench maps, Cobb County historic

DESIGN GUIDELINES: No comment.

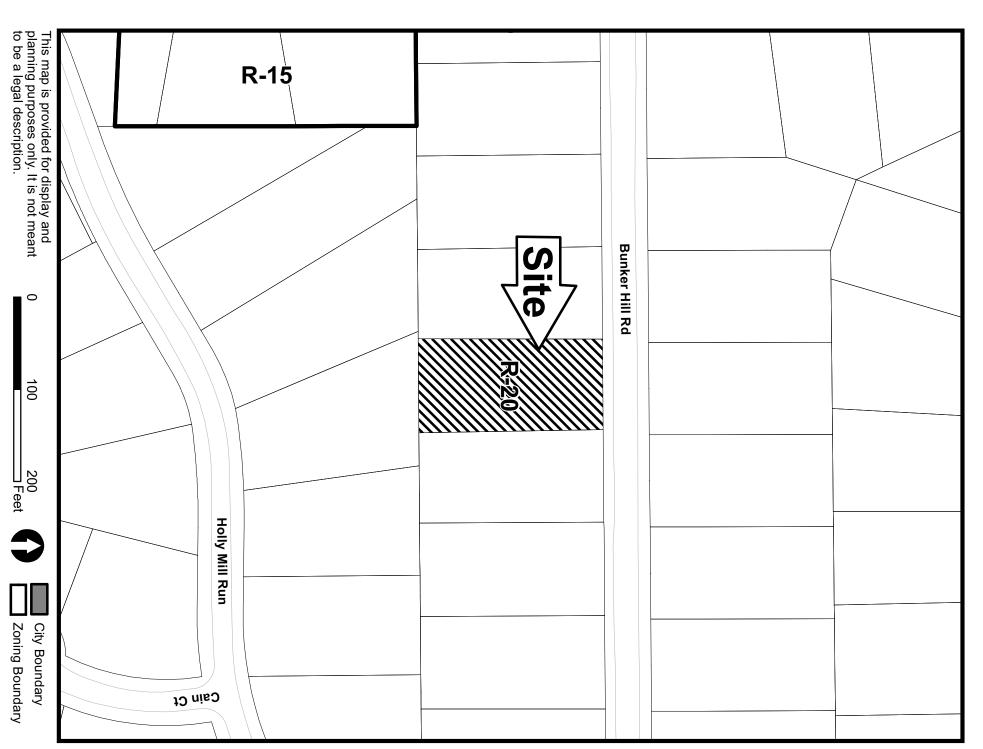
CEMETERY PRESERVATION: No comment.

WATER: No conflict.

SEWER: No conflict.

FIRE DEPARTMENT: After analyzing the information presented for a Preliminary Review, the Cobb County Fire Marshal's Office is confident that all other items can be addressed during the Plan

Review Stage. (Music Studio not for commercial use)



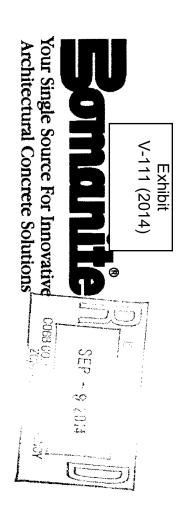


TA

The Cobb County Zoning Ordinance Section	Size of Property Shape of Property	Please select the extraordinary and exceptional condition(s) to the condition(s) must be peculiar to the piece of property involved.	Land Lot(s) 747	Location 3096 Bunker Hill Road, Marietta, GA 30062 (street address, if appl	Present Zoning of Property R-20	My commission expires Dec 17.2017	E South	Robert D. Dawkins Titleholder Roseanne F. Dawkins	My commission expires: Dec 17, 2019	(representative's signature)	Robert Dawkins (representative's name, printed)	Applicant Robert Dawkins
The Cobb County Zoning Ordinance Section 134-94 states that the Cobb County Board of Zoning Appeals must	pertyTopography of PropertyOther X	tional condition(s) to the piece of property in question. The property involved.	District 16th Size of Tract 0.458 Acre(s)	rietta, GA 30062 (street address, if applicable; nearest intersection, etc.)		COUNTY, COUNTY	Single Bunker Hill Road, Marietta, GA 30062 (street, city, state and zip code)	Phone 1.578 4899. E-mail rdawkins62@comcast.net	COUNTY COUNTY	Proposition 1999 E-mail rdawkins62@comcast.net	Address 3096 Bunker Hill Road, Marietta, GA 30062 (street, city, state and zip code)	Phone # 770-578-4999E-mail_rdawkins62@comcast.net

applying for Backyard Chickens pursuant to Sec. 134-94(4), then leave this part blank). determine that applying the terms of the Zoning Ordinance without the variance would create an unnecessary enclosing the current garage to provide a first floor bath and bedroom as well as handicapped accessible living space. The new handicapped accessible entrance requires use of pervious materials to meet the allowable impervious limits. The plan requires relocation of the garage to the rear of the home to permit handicapped accessibility to the first floor We are remodeling our home to accomodate our daughter and other family members who are disabled. This includes Please state what hardship would be created by following the normal terms of the ordinance (If

List type of variance requested: We're asking for permission to use a product called "Grasscrete" in lieu of standard Revised: March 5, 2013 pervious and permits water to reach the soil beneath the parking area (diagram and information attached). This will asking that an existing garden shed be allowed to remain in it's current location on the rear of the property. provide a more environmentally friendly solution and stay within the limit of impervious material. We are also hard surface for the parking areas in the front and rear of the residence. This is a material that is rated as 37.5%



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requently Asked Questions

BOMANITE GRASSCRETE GENERAL APPLICATION QUESTIONS:

1) What is Bomanite Grasscrete?

Grasscrete is a pervious reinforced concrete structure for all types of trafficked areas that is either covered with grass, has grass growing in the voids of the structure or has stone in the voids of the structure.

2) How is Bomanite Grasscrete made?

Grasscrete is made by pouring concrete over "Formers", a tool or mold that leaves voids in the concrete, that once opened can be filled with a variety of porous materials such as grass or gravel.

3) What are the Formers made of?

Grasscrete Formers come in two types. A re-usable plastic tool that is used only for fully grassed or concealed installations and the more common single-use Molded Pulp Former used for all Grasscrete types.

4) What is Molded Pulp?

The Molded Pulp is made from 100% recycled paper pulled from both post industrial and post consumer waste streams. It is suspended in a water slurry, vacuum formed to a mold and then air dried to a solid product. It is based on the same biodegradable material commonly found at landscape supply stores or nurseries that plant pots are made from.

5) What is the difference between Bomanite Grasscrete Systems and the competitors?

Grasscrete is the only product on the market that is made from continuously reinforced cast-in-place concrete. It is by far the most robust pervious grassed structure as it is not made from cheap plastic rings or supplied in segments. It has the load bearing capacity and durability comparable to concrete freeways or parking lots.

6) What are the products dimensions?

determined by the size of the project – every square foot of properly installed Grasscrete is connected with steel reinforcement The individual Grasscrete Formers are 24" x 48" in outside dimension and are 5 1/2" deep. The final installed product size is

7) What is Bomanite Grasscrete installed over?

which can be highly desired when controlling storm water runoff. cases it is installed over a deep bed of crushed stone or even storm water chambers so as to provide capacity for water project. In many situations the Grasscrete is installed over the native soils saving money on excavation and gravel. In some Grasscrete is installed over a sub-base of gravel at a depth determined by the load bearing capacity required for the

8) How well does grass grow over Bomanite Grasscrete?

Pacific Northwest it will grow the same as any lawn requiring no irrigation. In environments that are dry and hot, it is recommended that the Grasscrete be irrigated much like any other grassed area. Hardy, drought tolerant grass or groundcover can be selected for applications such as retaining pond bottoms or slope protection. Grasscrete has been installed extensively throughout the world in all climate types. In some environments such as the

Page: 2 of 3

9) How long do we have to wait before driving on Bomanite Grasscrete?

weeks before you drive on it for best results. Unlike other competitive systems that may require the grass to grow prior to use, Grasscrete can be driven on immediately after the concrete hardens in the extent of an emergency situation. Typically it is recommended that you wait two to four

10) What types of grass should I use in the product?

Use a species that is both deep rooting and robust. Generally a Blue/Rye/Fescue mix in northern climates Fescue, or Bermuda types in southern climates. and Zoysia

11) What material is Bomanite Grasscrete filled with for grassed installations?

Grasscrete functions best in fully concealed installations when a sandy soil is used to fill the voids and to cover the concrete. This will allow the grass to grow well and will support occasional non-emergency vehicle access. The same mixture is used for void grassed only installations which will allow for any type of vehicle access as often as required.

12) Can I seed or sod over the product?

Seed or sod can both be used dependant upon the application.

13) Is soil amending recommended?

Yes, a water retaining soil additive such as PAM or equal is recommended for grassed applications. It will retain moisture between watering or rainfall and will help aerate the root zone as it expands and contracts.

14) How are parking spaces delineated on a Grasscrete parking lot?

The use of traditional line paints is the most effective way to delineate stalls on a Grasscrete parking lot. Other methods, such as pouring the concrete in multiple pours, leaving a wider band of concrete between the stalls and planting brushes or shrubs in a predetermined pattern are all ways to distinguish between stalls and to control traffic patterns.

BOMANITE GRASSCRETE PERFORMANCE QUESTIONS:

1) How heavy of a load can Bomanite Grasscrete support?

Grasscrete can be designed and installed to support any vehicle. The standard minimum installation supports vehicles weighing 75,000 pounds with more customized installations capable of supporting vehicles exceeding 150,000 pounds including tracked vehicles

2) How much traffic can the product withstand?

Fully grassed installations can handle periodic traffic such as maintenance access or overflow parking. This is dictated by the robustness of the grass itself. Void grassed only installations can be driven on continuously with no issues associated with plowing, high speed travel or tires turning at particular places in the installation.

ω Can Bomanite Grasscrete be used for emergency access such as fire lanes?

been using Grasscrete exclusively since 1982. Yes, this is one of the more common uses for Grasscrete. As an example, the City of Los Angeles Fire Department has

4) What is the installed cost for Bomanite Grasscrete vs. Concrete?

Grasscrete is generally 30% higher than traditional concrete pavement. Using Grasscrete can eliminate or minimize the need for storm water collection systems which may be a substantial savings.

5) What is the installed cost for Bomanite Grasscrete vs. other pervious grass systems?

Grasscrete is generally slightly more than other pervious grassed systems such as plastic rings, plastic unit pavers and pre-cast unit pavers. However, using Grasscrete means you are using the most robust system with the lowest lifecycle costs of any pervious system with comparable capacity, durability and performance.

6) Can we plow Bomanite Grasscrete?

Applications requiring plowing are typically applications requiring continuous vehicle use and therefore are void grassed only installations. Grasscrete installed in this manner can be plowed with conventional equipment requiring no specialized attachments or care compared to other less robust systems.

Can we use Bornanite Grasscrete in lieu of a pervious concrete parking lot?

is exceedingly more abrasion resistant that pervious concrete mixes, and there is no issue with rock pop outs to the no fines mix of traditional pervious concrete, the mix designs are established freeze-thaw resistant, the final surface grass. Unlike no-fines pervious concrete Grasscrete is easily reinforced, the reinforcing steel is not subject to corrosion due Grasscrete is commonly used as a pervious concrete parking lot where as the voids are simply filled with stone rather than

Additionally Grasscrete is not subject to clogging issues and in the event that too much silt has entered the voids, they can be mechanically cleaned in an efficient manner unlike traditional pervious concrete.

BOMANITE GRASSCRETE BENEFITS QUESTIONS:

1) Does Bomanite Grasscrete lessen heat island effect?

Yes. Concrete is much lighter in color than blacktop so even for void grassed only installations there is improved

2) Can Bomanite Grasscrete have a recycled content?

Yes. Both due to the 100% recycled Mold Pulp Formers and to the fact that Grasscrete does not require the same set times and finishing as traditional concrete. This means that a high fly ash or blast slag content is possible along with reclaimed aggregates such as crushed concrete

3) Does Bomanite Grasscrete help control storm water runoff?

Yes. Fully grassed and void grassed only Grasscrete drains comparatively to local grassed areas with similar soils. Stone filled void installations have virtually zero runoff even in a exceptional rain event provided that there is adequate capacity to contain the water beneath the Grasscrete.

4) Can Bomanite Grasscrete channel storm water runoff?

grass or other plants in its voids the Grasscrete system can perform as an armored layer resisting washout yet remain predominantly concealed unlike traditional concrete channels Yes. Some of the most common installations for Grasscrete is river training, slope protection and channels. As it supports

5) Can Bomanite Grasscrete be used for retaining pond bottoms?

sediment to be excavated periodically using large pieces of equipment while maintaining the root structure of the grass which repopulates to conceal the system to provide a food source and cover for local animal species with using non-pervious concrete for retaining pond bottoms. It can also be mechanically scraped which allows for Yes. Grasscrete is ideal for use as a retaining pond bottom as it is pervious which helps avoid liability issues associated

6) Does Bomanite Grasscrete contribute to LEED?

Yes. For all the reasons listed above

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Pervious Concrete Systems

Grasscrete, a Bomanite Pervious Concrete System, is a cast-in-place, monolithic, pervious concrete pavement that is continuously reinforced to provide superior structural integrity.

Bomanite Grasscrete is the green alternative to standard concrete surfaces providing a variety of landscape solutions while maintaining a sustainable green product design used for emergency access lanes, delivery access routes, overflow parking areas, and for intermittent drainage channels that help prevent erosion. Grasscrete has been a Bomanite System for over 20 years with installations throughout North America in all climate types. Achieved through the use of two differing toolis known as "formers", Grasscrete is void structured concrete – a pervious pavement system that can be cast using proven mix designs with no potential for freeze-thaw or clogging issues. Grasscrete can be used as an exposed utilitarian product for functional applications or as a concealed system with vegetation such as grass or native ground cover installed over the concrete. This system allows you to mitigate drainage issues while maintaining strong structural integrity that allows for some of the heaviest vehicles to operate unencumbered.



The first application technique incorporates a reusable tool that creates the volds by having concrete placed in and around the tool formers prior to being pulled from the concrete slab. The second technique is using a single-use former that is placed on the sub grade with the concrete placed over the formers and the volds opened after the concrete hardens. The single-use formers are available in an ABS plastic former and the newly developed bio-degradable former, know as the Molded Puip Former, that is made with post consumer recycled components.

Grasscrete offers the ability to provide year-round access for a variety of applications requiring structural paving surfaces without compromising the aesthetics of the exterior landscaping. Grasscrete is a very sustainable product that can employ a large recycled material content both in the form of aggregate and binder such as fly ash or slag—its lifespan is indefinite and can be recycled itself to form the aggregates for future Grasscrete applications; providing Specifiers with a truly sustainable, eco-friendly system to accommodate a variety of needs.

GREEN BENEFITS

- The benefit to Grasscrete for businesses and developers is that it drains at about the same rate as would an ordinary lawn in the same location. The presence of concrete has little effect on the drainage; the soil and the slope are the controlling factors which makes it beneficial for eroslon control as well.

 Grasscrete is installed over a sub-base of gravel at a depth determined by the load bearing capacity required for the project. On site re-cycled fill materials are used in the sub-bases together with the use of topsoil in paving and retaining wall systems: as this is often available surplus from the excavation work it helps to avoid the unnecessary off-site disposal of parts restains the sub-base of the sub-base of the sub-base together with the use of topsoil in paving and retaining wall systems: as this is often available surplus from the excavation work it helps to avoid the unnecessary off-site
- disposal of waste materials.

 Grasscrete can also be installed over native soils saving money on excavation and gravel. The subsurface all depends on the needs and the water runoff requirements, from thick beds of stone to water piping systems. Grasscrete, as with man other "green" products generally costs 30% higher than traditional concrete pavement. At times however, using Grasscrete can eliminate or minimize the need for storm water collection systems which may in turn lead to substantial as with many
- savings.

 Contrary to convention, the structural advantages that Grasscrete offers over pre-cast can make significant savings in both the "construction" and "lifetime" costs of a project. Sub-base depths are reduced and curb edge restraints can often be eliminated. The construction process is much faster than for precast and the forms can be delivered by the truckload to cover 7200 sq m which is the equivalent to fifty truckloads of pre-cast. This is a serious statistic that saves both money and polluted transportation waste.

 SUDS, better known as "Sustainable Urban Drainage" is becoming an increasingly used term with planners and developers seeking to mitigate the implications of handling surface water run-off on the local storm water network. Preformed sub-ground retention tanks, to store surface water for a controlled release into the drainage network. Grasscrete provides a more uniform percolation process that creates a more natural balance thereby reducing the risk of shrinkage in clay soils due to the urbanized modification of water tables.

 Some other benefits of the Bomanite Grasscrete System, include the improved reflectance of the crete as compared to blacktop, reducing the heat Island effect. Grasscrete System, include the improved reflectance of the crete as compared to blacktop, reducing the heat Island effect. Grasscrete System, include the improved reflectance of the crete as compared to blacktop, reducing the heat Island effect. Grasscrete System, include the improved reflectance of the crete as compared to blacktop, reducing the heat Island effect. Grasscrete handles runoff and storm drainage via river training, slope protection and channels. It is also a sound product for retaining pond bottoms thanks to its pervious nature and helps provide a food

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