

Chapter Sponsors



JOHN DEERE

Hunter
The Irrigation Innovators

Alpine Services, Inc.
Premium Athletic Fields ... For All Sports



stabilizer
SOLUTIONS

syngenta

Board member Jay Warnick, CSFM resigns

Board Member Jay Warnick, CSFM has resigned his position on the STMA Board of Directors. Warnick has taken a new position at World Class Athletic Surfaces, Inc., effective Nov. 17. Per the STMA Bylaws, a board member who was elected to represent a non-commercial category must resign the board position if he/she becomes employed in the commercial sector.

Warnick was completing his first elected year of a two-year term as the college and university board representative. He was appointed on March 8, 2005, by President Mike Trigg, CSFM to fill out the term of Jimmy Rodgers, CSFM, who resigned his board seat due to becoming employed in a category other than the one he was elected to represent.

By the end of this year, President Trigg plans to appoint a replacement to fulfill the remainder of Warnick's term, which is up in January 2008.

Trigg says, "Jay has been an excellent board member, and we will miss the studied and balanced perspective he brings to our discussions. His absence will leave a void, but I know he'll continue to be involved in STMA through committee service, chapter involvement, conference, and in other ways. We wish him every success in his new job."

Warnick was the Grounds Supervisor for BYU Idaho, where he and his full time crew of 10 managed 35 acres of athletic fields, and 85 acres of grounds and hardscape for the University. Prior to BYU Idaho, Warnick was the Director of Fields for the Seattle Seahawks for four years, the Athletic Field Manager for the University of Utah, and the Assistant Field Manager for the Baltimore Ravens. Warnick will not need to relocate for his new position. He will direct distribution for World Class Athletic Surfaces in the western U.S. ■

Minnesota Chapter STMA:

www.mstma.org.

MO-KAN Sports Turf Managers

Association: www.mokanstma.com.

New England STMA (NESTMA):

www.nestma.org.

Nebraska Sports Turf Managers

Association: 402/441-4425.

Sports Turf Managers of New York:

www.stmony.org.

Sports Field Managers Association of New Jersey:

www.sfmanj.org.

Ohio Sports Turf Managers

Association (OSTMA): www.ostma.org.

Pacific Northwest Sports Turf Managers Association:

www.pnwstma.org.

Southern California Chapter:

858/
679-2526.

South Carolina Chapter of STMA:

www.scstma.org.

Texas Sports Turf Managers

Association: 866/897-8621.

Tennessee Valley Sports Turf

Managers Association (TVSTMA):

www.tvstma.org.

Virginia Sports Turf Managers

Association: www.vstma.org.vt.edu.

Wisconsin Sports Turf Managers

Association: www.wstma.org.

FORMING CHAPTERS:

North Florida STMA Chapter:

850/580-4026.

Idaho STMA: 208/496-2421.

Nevada STMA Chapter: 702/433-3113.

Quad-State STMA Chapter: 417/

836-5963. ■

CL185 CONE LASER



Easily adjustable head makes dialing in your desired cone quick and easy.



Excellent for use with a rod mounted receiver or machine control applications. With an adjustable range of flat to -1.85%, this laser is a sports field contractors most valuable tool.



"Over 20 years of experience in the sports field industry."

1-800-972-5273

LASERFORCELLC.COM

Fill in 135 on reader service form or visit <http://oners.hotims.com/9140-135>

GBS 1200 VERTICUTTER



belt driven both sides

graden usa inc
7309 capehart road
richmond, va 23294
ph: 804 249 9950
fx: 804 249 9951

offset mounting

48" cutting width

em: michael@gradenusa.com

CALL FOR YOUR FREE DEMO!

GRADEN

www.gradenusa.com

Fill in 155 on reader service form or visit <http://oners.hotims.com/9140-155>

TriWave 60 OVERSEEDER

NEW



The next wave in overseeding is here!

The patent-pending TriWave™ 60 overseeder is perfect for rejuvenating heavily-used sports fields – allowing ongoing overseeding with minimal disruption to play. Here's how:

- Three independent floating heads seed both low and high spots.
- WaveBlade™ technology optimizes slit width for improved seed-to-soil contact with minimal turf disruption.
- Special seed delivery system puts seed directly into slit, increasing germination with reduced waste.
- Infinite depth adjustment allows tools-free in-field adjustments.
- 1-1/2" blade spacing increases germination with fewer passes.



Experience the TriWave difference.
Call Turfco at 800-679-8201 today!

Turfco Manufacturing • 1655 101st Avenue NE • Minneapolis, MN 55449-4420 U.S.A.
Tel (763) 785-1000 • Fax (763) 785-0566 • www.turfco.com

TURFCO

THE LEADER. SINCE 1961.

Fill in 143 on reader service form or visit <http://oners.hotims.com/9140-143>

MASA

Request a FREE 96 page catalog TODAY!

800-264-4519



- Multi-Sport Section
- Baseball & Softball
- Football & Soccer
- Lacrosse
- Field Maintenance Equipment
- Field Hockey

Check us out for the best prices & largest selection!

Secure Shopping 24/7!

www.masa.com

Fill in 144 on reader service form or visit <http://oners.hotims.com/9140-144>

Got Thatch?



GET A THATCH MASTER

60"/72" (Fairways/Athletic Fields)

Turf Specialties, Inc.

800-201-1031

www.turfspecialties.net

Fill in 145 on reader service form or visit <http://oners.hotims.com/9140-145>



AERATION • MOISTURE & TEMPERATURE CONTROL FOR YOUR TURF

"There is no better way to healthy grass than through soil aeration and oxygenation. I absolutely love my SubAir system."



Russ Kurcab
CSFM Turf Manager
Denver Broncos
INVESCO Field at Mile High

SUBAIR SPORTS FIELD SYSTEMS allow for longer growing seasons, shorter rain delays, and faster turf recovery following special events, severe weather, and excessive use.

www.subairsystems.com
866.641.6663

SubAir TRUE BEAUTY LIES JUST BENEATH THE SURFACE

Fill in 146 on reader service form or visit <http://oners.hotims.com/9140-146>



Peat Inc.
golf • sports turf • horticulture

Organics You Can Trust

A Minnesota-based peat company servicing worldwide.

Peat, Inc. • Elk River, MN 55330 U.S.A.
www.peatinc.com • 763.441.8387 or 1.800.441.1880

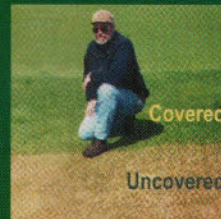
Fill in 147 on reader service form or visit <http://oners.hotims.com/9140-147>

Supreme-Green™ Turf Growth Cover

Supreme-Green is a multi-purpose turf growth cover made of a specially designed material to provide early green-up, accelerated germination and winter protection. The Supreme-Green cover encourages root development and rapid growth while extending your spring and fall seasons.

Supreme-Green turf growth cover is specifically engineered to promote earlier openings by 2-3 weeks.

- Reduces seed loss
- Promotes earlier root establishment
- Accelerates Germination
- Reduces frost and ice-damage
- Porous to allow water and air circulation
- Mildew and rot resistant
- Quick turf repairs



Specifications:

- Made of tough woven non-coated polyethylene material
- UV treated for long life
- Green tint for best heat build-up
- One piece construction
- Comes complete with anchor pegs and storage bag

279 Humberline Dr. Etobicoke, Ontario M9W 5T6
Phone: 1-800-837-8961

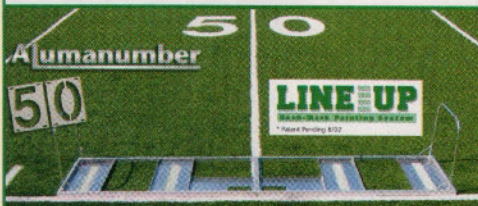
COVERTECH
Fax: (416) 798-1342
E-mail: sales@coverttechfab.com
Website: www.coverttechfab.com

Fill in 148 on reader service form or visit <http://oners.hotims.com/9140-148>

LINE UP

Hash-Mark Painting System

Made of lightweight aluminum & **FOLDABLE**.
Self-aligning, 5 yard units.



Aluminum

4x6 in size, made of 1/8" aluminum
Offsets built-in for quick alignment
Three font types available

**The Only Painting System
You'll Ever Need.**

888-780-4441

DSS

Diversified Sports Specialties
www.DSSworks.com

Fill in 149 on reader service form or visit <http://oners.hotims.com/9140-149>

THE BLECAVATOR



ONE PASS PERFECTION

From 52" - 160" working widths

RESHAPING THE FACE OF NATURE

BLEC
USA, INC.

864.225.3666 • www.blecusa.com

Fill in 150 on reader service form or visit <http://oners.hotims.com/9140-150>

TURF DIAGNOSTICS & DESIGN

Independent Accredited
Testing of
Artificial and Natural Turf
On Site & Laboratory Analyses

Artificial Turf Testing
Hardness Testing (GMAX)
Subgrade Testing

Natural Turf Testing
Full service analysis of sand-
based and native soil fields.

phone: 913-723-3700

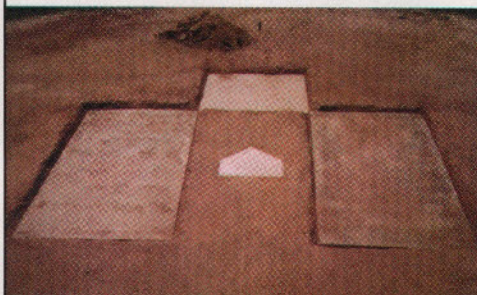
fax: 913-723-3701

email: turfdiag@turfdiag.com

www.turfdiag.com

Fill in 151 on reader service form or visit <http://oners.hotims.com/9140-151>

PERMANENT PITCHER'S MOUNDS & BATTER'S BOXES



Save time and money with these patented, poured red polyurethane, permanent outdoor Pitcher's Mound and Batter's Box Pads. Legal in College, High School, Babe Ruth, Pony and Little League Baseball. Great for recreational fields! Bury 2" below surface, eliminating deep holes and 95% of the maintenance in these high wear areas! Safe, long-lasting and provides the feel of properly packed clay. On-Deck Circles and Fungo Pads also available with non-skid granular surface. Some of the over 200 baseball and softball products available from "Your One-Stop Source for America's Baseball Surfaces and Supplies:"

PARTAC® /BEAM CLAY®
800-247-BEAM
WWW.BEAMCLAY.COM

Fill in 154 on reader service form or visit <http://oners.hotims.com/9140-154>

PLAN FOR A WINNING SEASON



Stabilizer Solutions, Inc.
33 South 28 Street
Phoenix, Arizona 85034 USA
info@StabilizerSolutions.com

800-336-2468
tel 602-225-5900
fax 602-225-5902
www.stabilizersolutions.com

Fill in 153 on reader service form or visit <http://oners.hotims.com/9140-153>

TRU MARK®

Athletic Field Marker



- Stripers
- Attachments
- Stencils
- Sprayers
- Tools
- Paint

Battery Operated Field Markers

- Rugged
- Dependable
- Easy to operate



Time Saving Tools & Tips



- Field Stencils
- String Winders
- Anchors & Flags
- Field Layout & Painting Tips
- Tarps

1-800-553-MARK
www.AthleticFieldMarker.com

Fill in 152 on reader service form or visit <http://oners.hotims.com/9140-152>

Green TV is brought to you by GreenIndustryEducation.com. Offering the Landscape Industry a green news TV show format online!

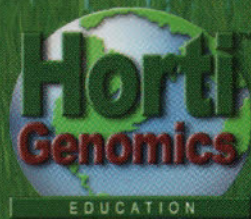
Episodes are either "Live" or "Pre-Recorded" and archived for easy viewing 24 hours day, 7 days a week, 365 days a year! Episodes will include coverage of industry and associations, tradeshow and conference events, new technology, professional trends, tips and more. Lots of FREE information in FUN and EASY streaming internet video show.



www.landsnetwork.net • www.green-tv.net

Fill in 139 on reader service form or visit <http://oners.hotims.com/9140-139>

BECOME A CERTIFIED SUSTAINABLE LANDSCAPER



Visit

HortiGenomics.com

Diminishing resources and client demands have made Sustainable Landscapes extremely important. This valuable certification is a must for any industry professional.



GreenIndustryEducation.com

Your Continuing Education Oasis

877.964.6222

Fill in 156 on reader service form or visit <http://oners.hotims.com/9140-156>



RED

IMPROVED CONDITIONER

SELECT

PREMIUM FERTILIZED DRYING POWDER

rapidDRY

PROmound

800.648.1166

www.proschoice1.com

<http://info.hotims.com/9931-304>

Fill in 140 on reader service form or visit <http://oners.hotims.com/9140-140>

SportsTurf MANAGERS ASSOCIATION Online Training

STMA Members - \$30 each
Non-members - \$50 each

Session OC01 - Schools K-12

Speaker 1 - Floyd Perry, Grounds Maintenance Services
Speaker 2 - Dr. Grady Miller, University of Florida
Speaker 3 - John Mascaro, Turf-Tec International
Speaker 4 - Dr. John Cisar, University of Florida

Session OC02 - Parks & Recreation

Speaker 1 - Preston Courtney, Disney Wide World of Sports
Speaker 2 - Floyd Perry, Grounds Maintenance Services
Speaker 3 - Bill Berry, City of Rock Hill
Speaker 4 - Richard Sanger, Sarasota County

Workshop OC03 - Developing A Master Plan

Speaker 1 - Francois Hebert, Consultant



Workshop OC04 - Building Athletic Fields

Speaker 1 - Dr. Chuck Darrah, CLC Labs
Speaker 2 - Boyd R. Montgomery II, The Toro Company
Speaker 3 - Mark Heinlein, The Motz Group

Workshop OC05 - Fertilizer

Speaker 1 - Brad Jakubowski, University of Nebraska
Speaker 2 - Dr. Tom Samples, University of Tennessee

Demonstration OC06 - Outdoor Demonstrations

Speaker 1 - Dr. Roch Gaussoin
Speaker 2 - Floyd Perry, Grounds Maintenance Services
Speaker 3 - Preston Courtney, Disney Wide World of Sports

For STMA Online Training information and registration, visit



GreenIndustryEducation.com

SportsTurf Managers Association (800) 323-3875

Fill in 141 on reader service form or visit <http://oners.hotims.com/9140-141>



Advertisers' Index/Reader Service Information

Three fast and easy ways to get additional information on products and services in this issue:

1. Visit the Web address next to the advertiser's name for the ad in this issue.
2. Go to sportsturf.hotims.com to search for products by category or company name. Plus, link directly to advertisers' Web sites, or request information via e-mail or by fax.
3. Complete the reader service information below. Write in the reader service number from the product or circle advertiser from the index, copy, and fax to (416) 620-9790

Please write the reader service number for **FREE product information** in the boxes above. If this is not your copy of ST, please go to www.submag.com/sub/ou to sign up for a **FREE one year subscription** of your own.

SportsTurf ADVERTISERS' INDEX

Advertiser	Web Address	Fill in #	Page #
Aerway/Holland Equipment	http://www.oners.hotims.com/9140-124	124	29
Airfield Systems	http://www.oners.hotims.com/9140-131	131	37
Bannerman	http://www.oners.hotims.com/9140-114	114	11
Beacon Athletics	http://www.oners.hotims.com/9140-127	127	32
BLEC USA	http://www.oners.hotims.com/9140-150	150	43
Covermaster	http://www.oners.hotims.com/9140-119	119	19
Covertch	http://www.oners.hotims.com/9140-148	148	42
Diamond Pro	http://www.oners.hotims.com/9140-120	120	21
Diversified Sports Specialties	http://www.oners.hotims.com/9140-149	149	43
First Products	http://www.oners.hotims.com/9140-129	129	35
Graden	http://www.oners.hotims.com/9140-155	155	41
Green Industry Education	http://www.oners.hotims.com/9140-139,141,156	139, 141, 156	44
GreenOne Industries	http://www.oners.hotims.com/9140-134	134	27, 36
GreensGroomer	http://www.oners.hotims.com/9140-113	113	9
Hydraway Drainage	http://www.oners.hotims.com/9140-115	115	12
Jacobsen	http://www.oners.hotims.com/9140-138	138	48
KRain	http://www.oners.hotims.com/9140-111	111	3
Laser Force	http://www.oners.hotims.com/9140-135	135	41
Laser Leveling	http://www.oners.hotims.com/9140-116	116	13
Lebanon Turf	http://www.oners.hotims.com/9140-112	112	5
MASA	http://www.oners.hotims.com/9140-144	144	42
Newstripe	http://www.oners.hotims.com/9140-142	142	40
Oil Dri/Pro's Choice	http://www.oners.hotims.com/9140-140	140	44
Partac Peat/Beam Clay	http://www.oners.hotims.com/9140-154	154	43
Peat Inc.	http://www.oners.hotims.com/9140-147	147	42
Pennington Seed	http://www.oners.hotims.com/9140-130	130	35
Pioneer Athletics	http://www.oners.hotims.com/9140-122	122	25
PPW	http://www.oners.hotims.com/9140-123	123	27
Precision Turf	http://www.oners.hotims.com/9140-136	136	20
Rain Bird	http://www.oners.hotims.com/9140-158	158	33
Redexim Charterhouse	http://www.oners.hotims.com/9140-117	117	15
Sports Turf Managers Association	http://www.oners.hotims.com/9140-157	157	39
Stabilizer Solutions	http://www.oners.hotims.com/9140-153	153	43
SubAir Systems	http://www.oners.hotims.com/9140-146	146	42
Synthetic Surfaces	http://www.oners.hotims.com/9140-118	118	17
The Toro Company	http://www.oners.hotims.com/9140-110	110	2
TifSport Growers Association	http://www.oners.hotims.com/9140-125	125	29
Tru Mark Athletic Field Marker	http://www.oners.hotims.com/9140-152	152	43
Turco Manufacturing	http://www.oners.hotims.com/9140-143	143	42
Turf Diagnostics & Design	http://www.oners.hotims.com/9140-151	151	43
Turf Specialties	http://www.oners.hotims.com/9140-145	145	42
TYCROP	http://www.oners.hotims.com/9140-128	128	32
Varicore Technologies	http://www.oners.hotims.com/9140-137	137	47
Vermeer Manufacturing	http://www.oners.hotims.com/9140-121	121	23
World Class Athletic Surfaces	http://www.oners.hotims.com/9140-126	126	31

Please complete this form in its entirety to receive your product information.

1. **What is your company's primary business?** (check **ONLY ONE**)
 F Sports Complex G Athletic Field and/or Park Architect/Designer
 T School, College or University P Park H Other (please specify) _____
2. **Which of the following best describes your title?** (check **ONLY ONE**)
 A EXECUTIVE/ADMINISTRATOR — President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Athletic Director
 B MANAGER/SUPERINTENDENT — Superintendent, Landscape/Ground Maintenance Manager, Foreman, Supervisor
 C GOVERNMENT OFFICIAL — Government Commissioner, Agent, Other Government Official
 D SPECIALIST — Architect, Designer, Consultant, Agronomist, Horticulturist, Certified Specialist
 F COACH E Other (please specify) _____
3. **Do you have the authority to buy, specify or recommend products and/or services for your business or organization?**
 Y Yes N No
4. **Yearly operating expenditures** (excluding salaries)
 F Over \$1 million C \$50,001 - \$100,000
 E \$500,001 - \$1 million B \$25,001 - \$50,000
 D \$100,001 - \$500,000 A \$25,000 and under
5. **Please also send a free subscription to the following people at the same location**
 Name _____ Title _____
 Name _____ Title _____

Yes, Please start/continue my subscription to SportsTurf

No, thank you.

Signature: (required) _____ Date: _____

Name: (please print) _____

Title: _____

Company: _____

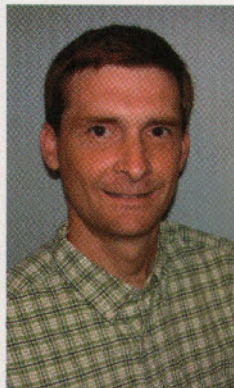
Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: (required) _____

You may need a blanket!



BY DR. GRADY MILLER
Professor, North Carolina State University

Questions?

Send them to Grady Miller at North Carolina State University, Box 7620, Raleigh, NC 27695-7620, or email grady_miller@ncsu.edu

Or, send your question to David Minner at Iowa State University, 106 Horticulture Hall, Ames, IA 50011 or email dminner@iastate.edu.

have responsibility for getting several baseball fields in central North Carolina ready for play by June 2007. The fields are in different stages of completion. They are all sand-based fields and will be established to Tifway bermudagrass. One field was sprigged in mid-summer and is 95% covered, one was sprigged in late summer and is only about 50%, and the third field was set to be completed the first week of November. We will be hauling in sod harvested from a southern location for the last field. What are the options for getting the fields ready now [letter written in October 2006]?

This is a good question that has some obvious and not so obvious issues, which will have to be carefully considered. Central North Carolina is in the transition zone. It's an area that can grow bermudagrass, but it is certainly not going to be growing by the time one sits down for a Thanksgiving meal. So, if the fields are not mostly grown-in by November (or even earlier most years), then do not expect them to be grown-in when green up comes around in the spring.

Let's evaluate options for individual fields one at a time, starting with the easiest. To me the field that was sprigged first is the easiest because it is nearly established. When I visited the fields, I noted there were a few localized areas less than 3 feet in diameter that were bare due to one or another reason (irrigation repair, etc). With a little localized sodding or plugging, this field is basically ready for the winter. Once it greens up in the spring, there should be several weeks to make final adjustments and the field will be ready for play.

To me, the second easiest field is the one that will be sodded. They knew early on that this field was not going to be completed in time for sprigging so all parties agreed very early in the construction process to sod this field. While sodding this late in the year is has risks, previous research and experience indicate that it can be done with a reasonable assurance of success. One of the most important issues is that the sod, even though it is dormant, is not allowed to desiccate during the winter.

The last field is the problem field. There are several options. Option #1 is to do nothing and hope that global warming kicks up a few notches so that North Carolina has the warmest winter and spring on record. Option #2 is to tear up the half grown-in turf, smooth the surface, and then sod the field. Option #3 is to do nothing to the turf, but cover the surface with some sort of cover or blanket, relying on the heat to promote growth and protect the crowns of the plant. And Option #4 is to overseed the weak stand of bermudagrass with a perennial ryegrass and manage the field as an overseeded field.

Option #1 is probably the worst choice. The odds are not in their favor that the field will go ahead and fill in by June. One could commit to this if you wanted to line up enough sod in the late spring to go ahead and sod the field once you determined that the sprigged surface was not going to be adequately grown-

in for play. Remember that these are sand-based fields so putting sod over the sand is going to cause its own set of management issues. It is bad enough that you have one sod-over-sand field to manage.

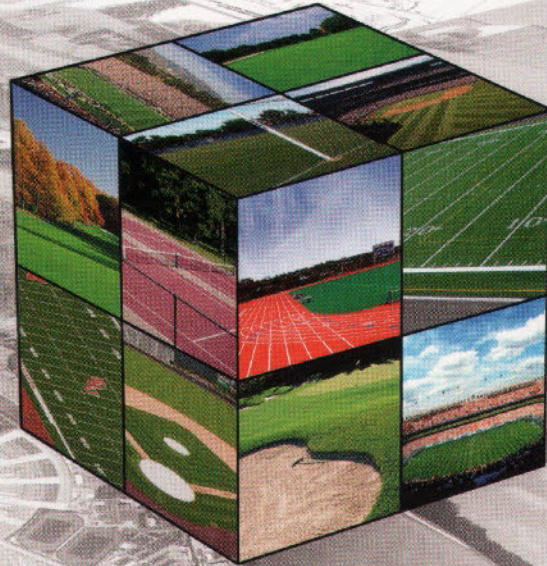
That's also why Option #2 is poor. The sod layering issue means you likely will need to re-establish the field's grade before sodding, which introduces a significant negative-cost, including turf removal, grading, sod, and sod installation. This option probably provides the greatest assurance of success, however, and should result in a surface similar to the other field that will be sodded. But I would still consider other options.

Option #3 is to do nothing but cover the field. While this option may not seem to be a good because it takes less effort and is less expensive, let's further analyze this one. Remember, the field will go into November with at least 50% turf cover. The existing turf is adequately rooted and healthy. If you can heat up the soil surface a few degrees and prevent the nighttime soil surface from getting as cool, one might be able to pick up another 10% of growth before the turf succumbs to dormancy. There should be an even greater benefit in the spring. With sunny days and warming temperatures, the cover will promote more rapid greening and earlier growth. Since the field is not needed until June, the jumpstart in the spring should be enough to complete fill. Worst case the long, cold spring results in delayed dormancy not overcome by the cover. Then, spot sodding or total sodding may be necessary. There are risks associated with this option, but it may be the best.

What about #4? This is an interesting option that warrants serious consideration. On the positive side, the field will be ready for play in the spring (even though it is not needed at that time). The field could look beautiful in June with mowing patterns of the cool-season grass. It would take careful management to hold the cool-season grass into the summer, but it could be done. The cost would be nominal: seed, fertilizer, and labor to manage the turf over the winter. On the down side, the field could be stressed and look poor if there is an early, warm summer. You also have inconsistency among fields with one cool-season grass field and two bermudagrass fields. But the biggest downside is what happens when the cool-season turf does transition. The field may still only have 50% bermudagrass turf cover. And if you held the cool-season grass until late summer to early fall, then one is still facing the decision of what to plant.

No matter which option is chosen it must fit within any contracts or management plans currently in place. No option is without risks. All parties involved should be involved in on the final decision so that everyone is aware of the risks, and considerations can be made on how to respond if a risk becomes reality. ■

Inevitably, **INNOVATION** rises above tradition.
Let us show you how **INNOVATION** in drainage can benefit your project.



www.varicore.com | www.varicore.com | www.varicore.com | www.varicore.com | www.varicore.com



Technical Assistance | Complimentary Design & Layout | Project Planning

Varicore Technologies, Inc. | 800-978-8007 | service@varicore.com

Fill in 137 on reader service form or visit <http://oners.hotims.com/9140-137>

