Kubota's FZ2100 and FZ2400 with Zero Diameter Turn (ZDT) run circles around the competition.

The power in the innovative FZ front mowers starts with 20 or 24 horsepower Kubota liquid cooled diesel engines and continues with the Auto Assist Differential (AAD) drive system that automatically switches between 2WD and 4WD to match operating conditions. With AAD, you get extra power to maneuver easily in wet grass and muddy conditions with the front wheels rotating freely through the tightest turns. The FZ can turn completely around in one spot without damage to the turf, cutting way down the time spent on labor-intensive hand trimming jobs.

For productivity and versatility, Kubota's F-Series front mowers can't be beat. The F2400 is 4WD and 24 horsepower, while the F2100 is available in 2WD or 4WD, and has 20 horsepower. Both have Kubota diesel engines, and are equipped with hydrostatic rear-wheel power steering for easy handling. A wide selection of Performance Matched Implements provide the versatility. They include triplex reel, rotary, flail and mulching rear discharge mowers, rotary broom, leaf blower, snowblower, and front blade. Roomy operator's deck, tilt steering wheel, and excellent visibility increase comfort and productivity.

Your Kubota dealer can show you the complete Kubota turf equipment line with the power and maneuverability to run circles around the competition.
In Chicago, White Sox turf manager Roger Bossard relies on Hunter I-40 sprinklers to keep his turf green and playable at the new Comiskey Park.

“We selected I-40s because of their superior performance in a sand-based sports field. Comiskey Park has one of the latest irrigation and drainage systems of any professional league stadium because we need top field conditions within minutes of a Chicago downpour.

“Hunter I-40s proved to be the best sprinklers to handle these sandy soil conditions. Heavy-duty retraction springs and stainless-steel risers give us positive pop-downs, greater player safety and reliability.

“Hunters meet my major league standards.”

Play ball.

A third-generation major league groundskeeper, Roger Bossard was recently named SportsTurf’s Man Of The Year.
MAIN EVENTS

8 THE LONG AND THE SHORT OF SOD INSTALLATION
Whether you install sod in 4- or 40-foot lengths, the basics remain the same. Proper selection, soil preparation, installation techniques and irrigation are among the keys to insuring your sod investment.

14 TURFGRASS RENOVATION: MEASURES FOR SUCCESS
Turfgrass renovation falls just shy of a “radical” remedy — it employs measures beyond normal maintenance, but stops short of removing existing grass and replanting. Lake City College instructor John Wildmon offers step-by-step renovation procedures to revive athletic fields.

18 WATER FEATURE QUALITY: USING ALL THE TOOLS
Lakes and ponds provide soothing, eye-catching diversity in park settings. Keeping these bodies of water “at rest” in pristine condition is no mystery — it just takes an understanding and implementing of the tools for the job. Here’s a review.

22 MUNICIPAL DIAMOND OF THE YEAR: TWI-LIGHT FIELD GLEAMING
The town of Danvers, MA, wanted athletic field excellence, and community leaders knew they needed a pro. In John Schmidgall they got more than they bargained for — his attention to detail and professional knowledge pushed Danvers’ Twi-Light Field to excellence and the 1992 Municipal Diamond of the Year Award.

LINE-UP

6 FRONT OFFICE
6 EVENTS
29 CHEMICAL LOG
30 STMA IN ACTION
32 EXPLORING EQUIPMENT
34,35 PRODUCT SHOWCASE
35 SCOREBOARD

ON THE COVER: Twi-Light Field in Danvers, MA, the 1992 Municipal Diamond of the Year. Photo courtesy: John Schmidgall.
The More We Know, The More We Grow.

Sports Turf Managers Association Fifth Annual Conference & Exhibition
November 6-9, 1993
Oriole Park at Camden Yards
Baltimore, Maryland

Join the Sports Turf Managers Association (STMA) at the home of the 1993 Major League Baseball All-Star Game for its fifth annual conference and exhibition. This year's conference offers fantastic educational opportunities in a unique location — Camden Yards. The conference and exhibition offers:

- Exhibits on the Club and Lower levels of Camden Yards, featuring more than 100 booths with the latest in turfgrass technology.
- Practical education sessions on many aspects of sports turf management, including drainage systems, soil basics, turfgrass selection, grooming infields, pesticide usage, multi-use fields, field coverage, and much more.
- Dynamic speakers covering the past, present, and future of sports turf, development of Oriole Park, innovation in the turfgrass industry and tips on teamwork from the pros.

Look for registration and exhibitor information this summer. For more information, contact Susan Seibert, STMA Headquarters, 312/644-6610. STMA's Fifth Annual Conference and Exhibit — Come grow with us!

Sports Turf Managers Association • Promoting Better and Safer Sports Turf Areas
Living Trophies

In this issue we present the final 1992-1993 Baseball Diamond of the Year Award feature. The story covers the rise to excellence of Twi-Light Field in Danvers, MA, winner in the parks/high school/municipal category. Behind that ascendancy is John Schmidgall, trees and grounds supervisor. He was hired by a community with the uncommon foresight to know it needed a professional — one with an educational and practical background in athletic field management — to care for amateur baseball diamonds.

Just as Schmidgall is the man behind the scenes at Twi-Light Field, there are several people behind the Diamond of the Year Award scenes who deserve recognition. Most of you probably know the awards are sponsored by Beam Clay, the Sports Turf Managers Association and this magazine. The four judges, however, from each division of Major League Baseball, change every year. For 1992-1993 they were:

- Frank Albohn, stadium superintendent, Yankee Stadium, representing the American League East.
- Wilbur Loo, head groundskeeper, King County Stadium, (in Seattle, WA), representing the American League West.
- Steve "Dirt" Dinardo, head groundskeeper, Pittsburgh Pirates, representing the National League East.
- Albert Meyers, head groundskeeper, Los Angeles Dodgers, representing the National League West.

Thank you, gentlemen.

Diamond of the Year Award winners tend to be absolutely thrilled with the honor. Hopeful entrants often describe the award as their professional goal. It's difficult not to be touched by that kind of commitment and passion for a job so many people — but certainly not those souls in the town of Danvers — take for granted.

For their efforts, award winners receive plaques. But their real rewards are self-accomplishment and the baseball diamonds they labored to create and preserve. They are gems to be shared by grounds crews, players, fans and the surrounding communities. They are living trophies.

Matthew Trulio

Correction: An April 1993 sportsTURF news item, “Turf Diagnostics and Design Gets NFL Recommendation,” incorrectly implied that Turf Diagnostics and Design creates and builds high-performance turf systems. The firm was recommended by the National Football to consult on high-performance turf systems at venues within the league. We regret any confusion this error may have caused.
Meet the Adams Family of Green Industry Publications

**Landscape & Irrigation**
- **Title:** Landscape & Irrigation
- **Circulation:** 36,000 National
- **Frequency:** 12x
- **Market:** Full Service Landscape Contractors, Installation & Maintenance
- **Official Magazine of:** The Irrigation Association

**Landscape Design**
- **Title:** Landscape Design
- **Circulation:** 15,000 National
- **Frequency:** 10x
- **Market:** Landscape Architects

**SportsTURF**
- **Title:** SportsTURF
- **Circulation:** 22,500 National
- **Frequency:** 12x
- **Market:** Sports Turf Managers & Golf Course Superintendents
- **Official Magazine of:** Sports Turf Manager's Association

**Irrigation Journal**
- **Title:** Irrigation Journal
- **Circulation:** 19,000 National
- **Frequency:** 7x
- **Market:** Agricultural Irrigation Specialists
- **Official Magazine of:** The Irrigation Association

**Arbor Age**
- **Title:** Arbor Age
- **Circulation:** 17,000 National
- **Frequency:** 12x
- **Market:** Commercial, Municipal, & Utility Arborists

**California Fairways**
- **Title:** California Fairways
- **Circulation:** 3,500 Regional
- **Frequency:** 6x
- **Market:** California Golf Course Superintendents & Greens Committee Chairmen
- **Official Magazine of:** California Golf Course Superintendents Association

ADAMS PUBLISHING CORPORATION
68-860 Perez Road, Suite J, Cathedral City, CA 92234 (619) 770-4370 • FAX (619) 770-8019
Call or write for subscription information. Combination rates available on all APC Green Industry Publications. Contact your sales representative for details.
The Long and the Short of Sod Installation

By Matthew Trulio

A Cynet 48 turf-installation machine was used to install the baseball field for the Florida Marlins at Joe Robbie Stadium. Photo courtesy: Cygnet Turf.

In terms of field restoration “on the quick,” it would be difficult to name a more challenging situation than that faced by NFL turf consultant George Toma and his crew at Candlestick Park for the NFC Championship game between the San Francisco 49ers and the Dallas Cowboys on January 17. In one week, they transformed a quagmire into field suitable for a professional football game.

The key to success was going long. Prior to the contest, Toma employed a Magnum 42 Big Roll Harvester from Bucyrus Equipment Company to resod the middle sections of the decimated field. The 42-inch-wide, 35-foot-long rolls - cut 1-3/4-inch thick - of bermudagrass sod from West Coast Turf of Palm Desert, CA, incorporated SodWrap™ from Conwed Plastics, which helped hold them together during harvest and installation.

Toma was, to say the least, “fresh” on the technique and technology - he flew up to San Francisco to meet with San Francisco Parks and Recreation officials and NFL representatives just days after he oversaw a similar procedure at the Rose Bowl in Pasadena, CA. After the Rose Bowl game on January 1, the field’s sidelines, end zones, and field center where the Rose Bowl logo was painted, had to be resodded in preparation for Super Bowl XXVII. (The other areas of the field were overseeded with Ph.D. perennial ryegrass from International Seed.) Toma worked with Neal Beeson of Sports Turf Facilities Management, the Pasadena Parks and Recreation Department and Rose Bowl stadium crew, and West Coast Turf to get the job done in two days.

The Candlestick project was far more urgent. While the Rose Bowl would host the Super Bowl game in several weeks, Candlestick needed to be ready for an NFL championship game in one week. Despite applications of 12 tons of Turface, the field was still soggy. Toma and others knew they needed to provide a stable surface in a hurry, and that, in addition to reduction of manual labor, is the primary advantage of installing sod in long lengths.

“During the meetings in San Francisco, it was tough to convince people it would work — the press in San Francisco ripped me hot and heavy and said it was going to be another swamp,” Toma