

Marsh/HNTB

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acre softball and soccer complex. Construction on the golf course and residential infrastructure will begin this summer, with the course scheduled to open in 1999.

Active on the pro circuit since 1969 and winner of 60 international tournaments, Marsh started Australia-based Graham Marsh Golf Design 10 years ago. The group has been responsible for more than 25 courses in Australia, New Zealand, Japan, Malaysia, Indonesia and the Philippines.

HNTB is an 80-year old planning, architecture and engineering firm headquartered here, with more than 2,000 employees in 60 offices nationwide. HNTB has planned and designed new and renovated golf courses and resorts throughout the United States and Japan.

Marsh said he chose to associate with HNTB not only for its extensive resources and golf course experience, but for its recognized planning abilities.

"A well designed golf course is just one element in today's development schemes," Marsh explained. "Through their experience in golf course design and planning residential communities and resorts throughout the U.S., HNTB has the savvy to maximize prime residential lots and designate commercial components that create the right synergy to assure long-term financial success of any development.

"Their in-house capabilities — including clubhouse architecture, civil engineering, environmental planning and landscape architecture — mean that we can provide turnkey design."

HNTB Vice President and Director of Golf Course Architecture Chris Dimond added, "As a member of the Senior PGA Tour for the past three years, and an international competitor for more than 26 years, Graham sees the best of the best. His experience as player and designer will help attract players and assure ongoing revenues for course operators."

Graham Marsh Golf Design/HNTB will make use of sophisticated computer technology — to assist in document preparation, to control earthworks costs, to enable Marsh to review designs from remote locations while on tour and to produce "fly-throughs" of designed golf holes for owners to use as marketing tools.

"We've been using 3D imaging and animations for several years to help fine tune the design of each hole so that the real-life experience matches golfers' expectations," said Dimond. "It also serves as an excellent tool to reduce construction costs, help in the environmental approval process and assist the contractor in the field."

First of five Palm-Aire renovations complete

POMPANO BEACH, Fla.— Palm-Aire Country Club, home of the Florida Open Golf Championship, has completed a massive greens/fairway/irrigation improvement project at its Palms course.

The project was supervised by International Golf Management, Inc. (IGM), a Lakeland-based firm which provides contractual golf course maintenance services at the five Palm-Aire courses.

All of Palm-Aire's golf courses are scheduled to be upgraded, starting with The Cypress, where work begins early in 1998. Palm-Aire Country Club is owned by Palm-Aire Development, a Philadelphia-based firm owned by developer Jeffrey Orleans.

Designed by the team of Karl Litten and Lorrie Viola, the \$800,000 Palms project provided for the redesign and rebuilding of the greens, bunkers, select tees and fair-

ways, in addition to major irrigation and drainage improvements. The project, which began in April, is the first significant facelift for the Robert von Hagge-designed course since it opened in 1959.

IGM equipped the Palms course with an OSMAC irrigation system by Toro, in addition to new irrigation around all greens. The project also provided for improvements to the fairways and tees, the installation of USGA-approved green mix, and the conversion of the putting surface on all greens from Bermuda 328 to Tifdwarf.



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