



# CSA Releases Details on Proposed Soccer Stadium

30,000 SEAT, \$82 MILLION MULTI-USE STADIUM IN THE WORKS FOR EXHIBITION PLACE, TORONTO

t a media conference held at the National Trade Centre at Exhibition Place in downtown Toronto on July 21, 2003, the Canadian Soccer Association unveiled its plans for a new 30,000-seat, \$82 million stadium complete with a FIFA recommended artificial grass playing surface designed to ideally suit international soccer while being compatible for CFL football as well as rugby, lacrosse and other field sports.

The proposed location would be at Exhibition Place in downtown Toronto. In support of the project, CSA has submitted a complete and detailed application for financial contribution to the Government of Ontario. CSA President Andy Sharpe accompanied by FIFA Vice President Jack Warner met with senior officials of the Government of Ontario and submitted a complete dossier of information related directly to this application of support. It is via the Government of Ontario as well as the Government of Canada that CSA is seeking \$62.5 million in total public financial support for the project (shared equally between the provincial and federal governments).

#### Maintaining Momentum

"We are grateful to FIFA for supporting the high quality work which has occurred over the past 11 months by virtue of their financial commitment" stated CSA President Andy Sharpe. "We have stated

that this project is of the utmost importance to the future of Canadian soccer, to Canadian sport in general and we now will shift our efforts towards convincing the public that this project must move forward now, particularly with the amount of work completed."

Association has applied to host the FIFA Men's U-20 World Youth Championship in 2007, with this proposed stadium being one of the most important sites for the event," continued Warner. "This 24 nation 3 week tournament is the second largest Championship FIFA stages and I am



We first reported on the plans for Toronto's new stadium in the Winter 2002 issue. At that time, press releases stated that the stadium would be natural grass - not articifial turf as is stated in this article. Stay tuned for more details as the project progresses.

FIFA Vice President Jack Warner was also in praise of the project. "With the momentum generated from this wonderful dossier of material, it is now critical that the stadium project keep moving forward and that it ultimately succeed, for the good of Canadian soccer and for the good of our sport in this confederation. With well over 800,000 young Canadians playing soccer and almost half of this number within a two hour drive of downtown Toronto, the time has arrived for this City to finally develop a proper soccer/sport facility where the world's best male and female players can compete at the highest levels."

"I am also pleased to announce that with my full support, the Canadian Soccer pleased that the initial response from FIFA President Blatter to the Canadian bid has been enthusiastic. I also hope that FIFA will accept an offer from CSA to host the 2007 annual FIFA Congress in Toronto as well, with 204 member nations expected to attend."

#### Maximum Usage

Design plans for the stadium were completed by Stadium Consultants International, a division of Brisbin Brook Beynon, Architects, and features many unique aspects to it, including themed zones to allow for maximum enjoyment of the facility by the different user groups expected to frequent the stadium. Providing premium covered seating on the

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### 2002 General Statistics

Total Player Registration: 789,289 Increase from 2001: 31,866 (4.2%)

Total Female Registration: 307,258 Increase from 2001: 18,475 (6.5%)

Total Male Registration: 482,081 Increase from 2001: 13,171 (2.8%)

Total Youth (under 18) Registration: 685,310

Increase from 2001: 20,847 (3.1%)

Total Senior (over 18) Registration: 100,143

Increase from 2001: 7,183 (7.7%)

west side for 10,000 fans, the stadium is an open air facility - something that is unavailable in the Greater Toronto area. As such it complements SkyDome as a mid-range, outdoor facility catering to the needs of various sports not usually seen within the dome.

Intimacy was the primary factor in the design phase of the stadium and with spectators only six metres from the playing surface, this has been achieved by the architects over the past eight months of design development. The built-in capabilities for the stadium to ultimately expand up to 70,000 seats has also been achieved should ever the need for this to occur, for such events as the FIFA World Cup, the Grey Cup or for other sporting spectacles.

The stadium playing surface will feature a FIFA recommended third generation artificial grass product of the highest standard. The only major stadium facility in Canada which currently has this designation is Ottawa's Frank Clair Stadium with FieldTurf which has now hosted two national women's team matches in 2003 since receiving this approval from FIFA earlier this year. Usage of this artificial grass in the stadium will allow for extensive training and multiple events to be staged from late March through to the end of November.

The stadium has been designed so that it perfectly meets the playing requirements of international soccer but of other rectilinear sports as well, including CFL football, rugby and lacrosse. It will seat just over 30,000 for soccer and almost 28,000 for CFL football (allowing for removable end zone seating accommodate the longer CFL field).

The stadium, due to the efficiency of its design and artificial grass surface, will be ideal for multiple forms of community use including all levels of soccer from youth events up to and including the professional level of the sport. In addition, major inter-university sports events could easily be staged at this facility while the same could be said for national/ international level rugby. It is the intent to make this facility an affordable one to use so that many sport and community groups can take advantage of the stadium. → page 15

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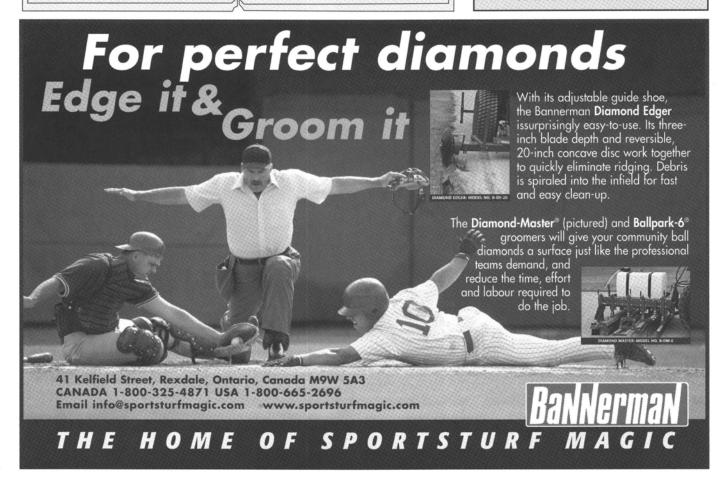
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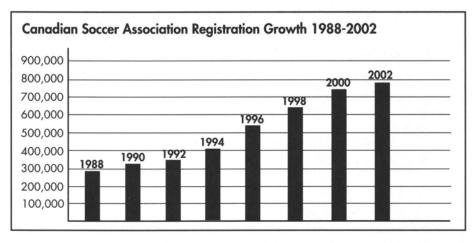
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#### **Financial Details**

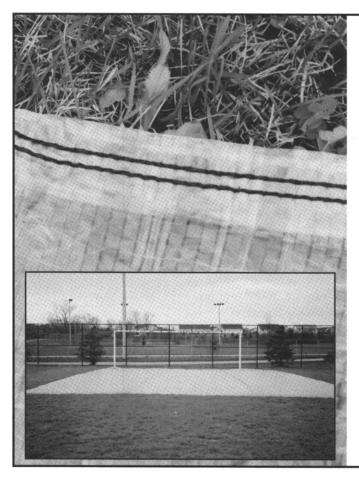
A financial and market impact assessment of the project was completed by Deloitte & Touche. Based on that analysis, the operations of the stadium would be sustainable. In addition, the study identified that the construction of the stadium could generate some \$121 million in both direct and indirect spending and 750 jobs. Once operational, it is estimated to generate almost \$7.0 million of annual spending and create about 90 jobs. The stadium is also expected to stimulate local tourism when it hosts high profile international events and exhibitions.

The cost of all the work to date, totaling close to \$600,000, has been supported by the Federation Internationale de Football Association (FIFA) and its overall GOAL development Program. FIFA, the international governing body for world soccer with 204 member nations and headquartered in Zurich, Switzerland, responded positively to a funding request by CSA in support of this stadium project



last fall. Since then, CSA has been at work intensively with this announcement representing the culmination of this phase of the stadium project. With IMG Solutions retained as project manager and IMG Canada providing overall guidance and support, all necessary design work as well economic feasibility and impact studies have been fully completed and submitted to the Government of Ontario as part of CSA's overall application for support. Initial meetings have been held

with the City of Toronto, knowing full well that any final decision to be taken on this project must in fact be that of City Council. As well, meetings have occurred with Exhibition Place, the Government of Ontario and others. The announcement by CSA completed the initial phase of research and development. The focus will now shift to detailed meetings with potential stakeholders including all three levels of government, as well as Exhibition Place. ♦ — www.canadasoccer.com



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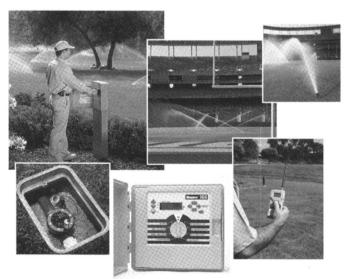




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# Central Irrigation Control Systems — It's Time to Consider

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Water is an integral part of plant health care. For sports fields we need healthy turfgrass to make sure that it is firm yet resilient enough to withstand intensive athletic activities. To maintain that turf we need supplemental watering, as normal rainfall patterns do not always mesh with community activity schedules.

his additional watering can be provided by hand or hose travelers. But by far the most efficient precipitation pattern for an even distribution of water is that devised by nature in the form of rainfall. Our closest approximation to it is to design and install a uniform layout of water emitting devices either above or below soil level.

These "sprinklers" are controlled with a piping system. A series of valves allow us to introduce water into the pipe lines which are then directed over a landscaped area when and where we wish. This irrigation system makes it possible to be an efficient water manager as well as provide for plant life maintenance.

This dual stewardship has thankfully been assisted by technology. Safe low voltage electricity can turn a valve off or on. Timing mechanisms as simple as mechanical gear boxes or as sophisticated as today's personal computer allow us to sequentially activate these watering systems. Like all other applications of automation technologies, this has freed people to pursue other activities.

Efficient management of these systems still requires frequent adjustment. If enough rain falls there is no need for

supplemental watering, so a timed landscape watering cycle needs to be halted for a period of time. If we are in the middle of a hot and dry summer or have a tournament schedule to meet, an increase in water replenishment may be required. If any cutting or aerifying equipment are needed to operate on the site, then the irrigation system must be scheduled to accommodate it.

Repair and replacement work is also a constant. Public interaction can sometimes lead to vandalism on park sites. As sprinkler systems age some of their components naturally stop performing.

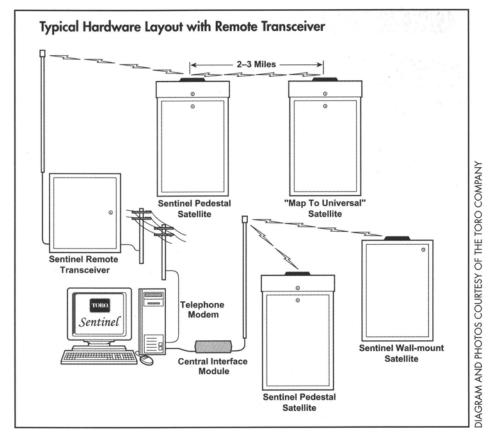
This demand for irrigation system repairs and seasonal adjustments is more than possible to effectively manage for one site with just a single person dedicated to that purpose. As two, three, five or ten more sites are added for maintenance, there arises a need for assistance. This may be in the form of trained staff or hired professional contracting firms.

From here, a multi-site landscaper or parks manager also take on the task of financial analyst. What portion of a labour budget is allocated for irrigation work? How much money is to be spent on old or inadequate sprinkler system upgrade or repair? What are the parks' water usage bills like and are there directives to limit or reduce these expenditures without sacrificing park quality? Are present staff numbers to remain the same, be allowed to increase, or required to decrease over the next 3 to 10 years?

Then there is the role of emergency coordinator. As sometimes happens, a portion of the park may have flooded or eroded because a sprinkler line broke or a valve failed to close over night. Drought weather conditions may have dictated a need for water restrictions or outright bans for landscape watering purposes.

We can resolve all of these financial and emergency scenarios with regards to landscape watering through automated off-site monitoring and control irrigation systems. Central/satellite control systems allow one to view, record and manage irrigation water use over extended areas from a single location. Through developments achieved in the electronics and communications industries, alarms and fail safe shutoffs are triggered should water or hydro use occur beyond the range of normal consumptions.

These control packages greatly speed up repair response times. Irrigation component problems are pinpointed before reaching the site. Master water valves would have already shut the lines down, without losing thousands of liters



of water to landscape runoff. Hand-held radios can then be used to turn valves on as required, eliminating the need for reaching into submerged valve box enclosures or directing additional staff to turn a timing switch device on and off.

Supplemental waterings are directed to occur based on complex programming parameters designed to step in only when nature skips a beat. Only as much water as is needed is released from the sprinkler zones to top off the soil reservoir to its optimum mix of oxygen and plant available water.

This type of control has actually been around for decades. While controlling

devices have evolved, golf courses have been making full use of central control technology with great benefit for half a century. Superintendents have been able to adjust watering schedules for their entire golf course from within their offices instead of sending staff out to press buttons on satellite timing boxes placed over hundreds of acres of land.

Golf central irrigation control has advanced to the pace of the evolution of the personal computer. Digital time keeping alone has saved millions of gallons of water over the mechanical clocks of early generation controllers. The sophistication and degree of today's golf



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One of the innovations of modern golf systems occurred over 20 years ago in the use of uhf frequency radio communication. This not just as a tool for valve actuation for repair functions, but as a means for a central computer to communicate scheduling information to its satellites without having to hard wire everything together. It was this advance in communication technology that made central irrigation control a viable option for non-contiguous sites such as college campuses and cities.

Piggy-backing the telecommunications industry, central control can now transmit and receive programming operations through telephone line or short range radio. Advancing radio technologies like the cellular telephone and the promise of satellite information relay systems are bringing to focus a new all-encompassing

monitoring devices are inserted into each water service pipe line. From this analysis, service adjustments to some of the site irrigation components may be required to achieve optimum uniformity.

A master shutoff valve is also added to react to unexpected water usage. Flows during various stages of irrigation cycle operation are continually measured to ensure that all is operating when and how it should be. If not, an alarm is created while the piping system is shut down automatically. These alarms can even be qualified so that those incidents where water flows remain unstopped immediately page emergency service personnel. For public parks this can translate into a near elimination of unscheduled down time for athletic play due to water damaged landscape.

Best central control practices also require a series of environmental measuring sensors be introduced into the landscape. One or two weather stations

> should be set up in regional typifying areas. They would measure several atmospheric factors such as temperrelative ature, humidity, wind and solar radiation levels to arrive at an accurate assessment of evapotranspiration (ET) loss during the day. This figure communicated generally once a day at a time when sprinklers are not in operation through-

out the system to adjust daily watering schedules. This information is critical to ensure that only the exact water replenishment amount is released through the sprinkler system.

Rain sensors are used on each site to override scheduled irrigation cycles should a cloudburst occur between ET programming relays. More sophisticated rainfall units can even measure the amount of rainfall and relay that to a logged system data base for historical tracking – rainfall

data- stored and recorded for report and review.

Soil moisture sensors retain final veto of sprinkling operations for each site. They are designed to respond to the water holding capacity different soil bases have when being used as subterranean plant water reservoirs. For example, sand based soils would allow for more frequent watering applications due to lower moisture retention capabilities.

With this level of hydraulic control and real time environmental tracking, irrigation systems become a best management process for the plant care regimen. Water consumption may be reduced by 30 to 50 percent annually from previous non-monitored sprinkler methods. Plant material may also be trained for drought tolerance through deep infrequent cyclings of supplemental water.

Central irrigation control systems can also interact with lock and lighting systems through the use of low voltage electric relays. Utilizing a dry contact switch methodology, the system can recognize whether hydro has operated and create alarms similar to those used for water applications.

Central irrigation system control has arrived in the 20th century ready for the 21st. It carries a price in dollars which might not appear fiscally possible given present budgets. It seems initially to be a lot to pay up front for what looks like something as simple as turning water valves off and on. Like all other digital technologies, however, as hardware/software items adapt the latest circuitries unit, costs are coming down. Even at today's market prices for these systems, payback periods of two to five years are not unheard of.

Solid state circuitry continues to shrink all communication and information access into the palm of our hand. The irrigation industry is keeping pace.

The growing scope of a parks management workload that strives to meet higher community service standards demands the use of the best tools available. Water supply agencies demand conservative accountability for all water usage. It is indeed time to consider central irrigation control systems. •



wireless network as the communication standard of the future.

The flexibility now inherent in central to satellite would be merely electronic soup without a complete and functioning database of every working sprinkler zone. Each valve operated group of sprinkler heads must be identified and detailed. Expected station flow rates based on manufacturer's published data are then compared to actual flow rates measured through flow meters. These water flow