



Golf Course Advisory Board Regular Meeting

Agenda

July 13, 2026 @ 8:00 AM

City Hall Commission Chambers
401 S. Park Avenue

welcome

Agendas and all backup material supporting each agenda item are accessible via the city's website at cityofwinterpark.org/meetings/ and include virtual meeting instructions.

decorum

As a courtesy to those present, please silence your mobile devices. If you must take a phone call, please excuse yourself and step outside.

Members of the public shall observe the same rules of propriety, decorum and good conduct applicable to members of the Board. Persons making remarks or exhibiting behavior that disrupts the orderly conduct of this meeting will be subject to removal from the meeting.

assistance & appeals

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office ([407-599-3277](tel:407-599-3277)) at least 48 hours in advance of the meeting.

"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." (F.S. 286.0105).

board member compliance

Board/Committee members when acting within the scope of their public duties are subject to the Florida Sunshine Law (Ch. 286, F.S.), Florida Public Records Act (Ch. 119, F.S.) and state ethics laws (Ch. 112, F.S.). All discussions with any other board member(s) regarding public items that are likely to come before the board/committee must occur on the record during a public meeting. No member shall vote upon, and no appointed member shall attempt to influence, any item considered which would inure to the special private gain or loss of the member, any principal/parent/subsidiary retaining the member, or any relative or business associate of the member. Members must announce their conflict and file a written conflict disclosure with the City Clerk within 15 days of the meeting.

1. Call to Order

- a. Board Orientation

2. Consent Agenda

- a. Minutes of May 11, 2026

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker**4. Action Items****5. Non-Action Items**

- a. Revenue Reports
- b. Irrigation Consultants
- c. Driving Range Bays

6. Staff Updates

- a. CIP Funds
- b. Course Conditions

7. Board Comments**8. Upcoming Agenda Items****9. Adjournment**



Golf Course Advisory Board

agenda item 2.a

item type

Consent Agenda

meeting date

July 13, 2026

prepared by

Kesha Thompson, Recreation Coordinator

approved by**subject**

Minutes of May 11, 2026

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. Minutes 05.11.26



Golf Course Advisory Board Regular Meeting Minutes

May 11, 2026 at 8:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

Nancy Freeman, Sidney Cash, Mark Hitchner, Matt Hurst, Dr Patti Dowling, Robert D. Maisenholder, David Webster

Absent

Staff Present

Parks and Recreation Director Jason Seeley, Assistant Directors Cathleen Daus and Mike McCosker, Operations Manager Gregg Pascale, Recreation Coordinator Laura Halsey

1. Call to Order

2. Consent Agenda

- a. Minutes Approval 03.09.2026

Motion made to approve minutes from March 9, 2026 by Nancy Freeman, seconded by David Webster. The motion passed.

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker

Bill Geisler, Winter Springs, addressed the Board and stated that he appreciates the progress being made on both courses. He also thanked Gregg and staff for assisting with the tournaments he has conducted for many years at the WP9. Mr. Geisler commented that the overall developments at the 9 are very positive and that the culture of the course is also very positive. He stated that he is available to consult regarding golf operations and expressed appreciation to the Board for its contributions.

Bill Geisler
776 Andover Circle
Winter Springs, FL

4. Action Items

5. Non-Action Items

a. USGA Course Conditions Report

Staff reviewed the findings of the USGA Course Conditions Report regarding WP18. Discussion focused on the condition of the greens, which are reaching the end of their life cycle and would typically require replacement approximately every 10 years. Recent weather fluctuations have caused additional thinning, and staff is monitoring recovery while planning targeted sod work during the next maintenance day. The report also highlighted ongoing infrastructure concerns, particularly with the irrigation system, which continues to impact overall course conditions and maintenance efforts. Staff advised that irrigation improvements will need to occur before major turf replacement projects, including greens and tee boxes. The Board discussed bringing in an irrigation consultant to evaluate the system and identify long-term solutions. Board discussion also centered on future capital priorities and whether currently allocated driving range funds should instead be redirected toward irrigation and course infrastructure improvements. The consensus was that overall course conditions remain the higher priority. Additional discussion included possible grant opportunities, drainage improvements, and alternative driving range enhancements, such as a target-finder system. Comments were also made regarding operational practices, including tee marker and pin placement, to better highlight areas with the strongest turf conditions.

b. WP18 Driving Range

6. Staff Updates

a. WP9 & WP18 Revenue Reports

WP9:

Staff reported that a 40% discount on greens fees was offered after the course began experiencing playing condition issues.

WP18:

Staff reported that WP18 is on track to exceed prior years in total rounds played. Discussion included questions regarding the decline in driving range revenue, while overall course revenue continues to trend upward compared to previous years. Staff also noted that memberships have been extended by an additional month.

b. WP9 Renovation & Repair

Staff provided an update on the WP9 course renovation project. The course may reopen next Monday using temporary greens. Bunker pours are scheduled to begin tomorrow, along with installation of sprigs, and sod installation is expected to be completed tomorrow. Staff has begun the interview process for the Superintendent Position. The estimated timeline for full reopening is mid-July. Staff also discussed plans to celebrate the 10-year anniversary of the course during the first weekend in

October in conjunction with the City Amateur tournament that was rescheduled. Additional maintenance items discussed included root intrusion issues near the live oaks, with staff planning to install root barriers. Staff also noted there is an opportunity to make minor course layout improvements as part of the project. WP9 members will also have access to play at WP18 during the transition period. Discussion also included traffic mitigation plans and timing of the reopening to help ensure a positive player experience. The Board will soon begin discussions regarding the fee schedule. Members were encouraged to send questions and recommendations by email.

7. Board Comments

8. Upcoming Agenda Items

9. Adjournment

Meeting adjourned at 8:56 a.m.

The Board thanked David Webster for his service and contributions. David addressed the Board and expressed his appreciation for the opportunity to serve. He thanked the Board members for their service and support during his time on the Board and asked the Board to keep former Board member Skip Smith in their prayers as he is currently battling health issues.

ATTEST:

Approved by the board
/s/ Kesha Thompson, Recreation
Coordinator



Golf Course Advisory Board

agenda item 5.a

item type

Non-Action Items

meeting date

July 13, 2026

prepared by**approved by****subject**

Revenue Reports

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. WP9 Revenue June Comps 2022-2026
2. WP18 Revenue June Comps 2023-2026

Winter Park Golf Course (WP9)

FISCAL YEAR 2026

		STATS				Revenues							
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 9 HOLE	Member Rounds	Night Golf	Greens Fees	Carts	Membership	Merchandise	Food & Beverage	Club RENTAL	Golf Events	Country Club
October	\$110,325.13	2987	2,075	912	0	\$54,445.48	\$6,568.57	\$25,214.92	\$8,848.79	\$5,388.44	\$539.15	\$1,925.26	\$7,394.52
November	\$117,502.72	3386	2,246	1,067	73	\$58,940.94	\$6,134.74	\$22,943.90	\$11,502.84	\$5,980.07	\$473.40	\$3,102.80	\$8,424.03
December	\$153,258.54	3291	2,196	980	115	\$58,348.01	\$5,915.20	\$47,996.71	\$17,963.99	\$5,920.40	\$420.80	\$7,274.76	\$9,418.67
January	\$149,299.02	3370	2,192	1,134	44	\$55,849.59	\$5,451.53	\$53,299.00	\$11,273.38	\$5,891.03	\$420.80	\$9,948.59	\$7,165.10
February	\$128,661.70	3144	2,143	941	60	\$54,115.96	\$5,654.19	\$32,690.15	\$15,396.21	\$4,726.45	\$644.35	\$8,009.16	\$7,425.23
March	\$173,674.50	3527	2,615	888	24	\$68,418.96	\$8,269.47	\$43,878.45	\$25,602.78	\$6,920.16	\$789.00	\$10,311.44	\$9,484.24
April	\$100,250.81	2850	2,119	731	0	\$42,064.16	\$6,147.39	\$20,186.88	\$10,072.92	\$5,298.07	\$744.29	\$7,183.77	\$8,553.33
May	\$27,641.06	872	668	204	0	\$9,293.05	\$1,649.96	\$1,261.68	\$3,811.28	\$1,110.13	\$118.35	\$224.30	\$10,172.31
June	\$46,038.83	1961	1,467	494	0	\$17,505.11	\$4,366.28	\$5,046.72	\$8,386.68	\$2,411.19	\$460.25	\$714.85	\$7,147.75
TOTALS	\$1,006,652.31	25388	17,721	7,351	316	\$418,981.26	\$50,157.33	\$252,518.41	\$112,858.87	\$43,645.94	\$4,610.39	\$48,694.93	\$75,185.18
			25,388		REVENUE								
			ROUNDS		\$1,006,652.31								

FISCAL YEAR 2025

		STATS				Revenues							
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 9 HOLE	Member Rounds	Night Golf	Greens Fees	Carts	Membership	Merchandise	Food & Beverage	Club RENTAL	Golf Events	Country Club
October	\$89,104.87	3750	2,893	857	0	\$41,149.90	\$4,567.92	\$25,467.26	\$7,204.10	\$5,041.27	\$347.51	\$0.00	\$5,326.91
November	\$110,288.65	4785	3,576	1,131	78	\$52,753.26	\$5,790.48	\$27,224.27	\$11,577.73	\$5,782.27	\$683.81	\$1,794.40	\$4,682.43
December	\$119,608.84	4408	3,292	1,051	65	\$47,546.65	\$4,836.80	\$30,158.84	\$19,029.08	\$4,990.00	\$437.19	\$2,781.31	\$9,828.97
January	\$135,112.69	4692	3,708	917	67	\$49,966.04	\$4,921.72	\$42,747.60	\$10,032.90	\$5,704.66	\$762.28	\$11,730.85	\$9,246.64
February	\$135,667.02	4510	3,442	1,046	22	\$54,093.45	\$5,838.44	\$40,355.09	\$9,921.54	\$5,316.86	\$459.61	\$6,476.81	\$13,205.22
March	\$149,823.21	5548	4,323	1,225	0	\$61,491.21	\$7,394.46	\$32,009.32	\$25,203.48	\$7,372.46	\$964.06	\$8,199.07	\$7,189.15
April	\$143,052.67	5329	4,178	1,151	0	\$56,907.90	\$6,627.67	\$34,813.03	\$14,525.87	\$7,165.73	\$919.22	\$12,288.81	\$9,804.44
May	\$99,302.00	4236	3,415	821	0	\$46,879.80	\$5,314.11	\$20,981.30	\$9,589.16	\$6,983.44	\$325.09	\$3,775.72	\$5,453.38
June	\$111,130.00	4233	3,225	1,008	0	\$48,452.97	\$5,590.47	\$26,869.12	\$9,032.54	\$7,084.26	\$257.83	\$4,822.47	\$9,020.34
TOTALS	\$1,093,089.95	41491	32,052	9,207	232	\$459,241.18	\$50,882.07	\$280,625.83	\$116,116.40	\$55,440.95	\$5,156.60	\$51,869.44	\$73,757.48
			41,491		REVENUE								
			ROUNDS		\$1,093,089.95								

FISCAL YEAR 2024

			STATS			Revenues							
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 9 HOLE	Member Rounds	Night Golf	Greens Fees	Carts	Membership	Merchandise	Food & Beverage	Club RENTAL	Golf Events	Country Club
October	\$82,075.35	4124	3,243	881	0	\$39,537.29	\$5,895.70	\$13,364.54	\$9,380.83	\$5,811.49	\$638.97	\$0.00	\$7,446.53
November	\$87,078.68	3567	2,679	738	150	\$44,164.43	\$4,553.66	\$15,700.98	\$11,762.69	\$4,930.06	\$582.92	\$1,407.48	\$3,976.46
December	\$104,424.48	3290	2,334	812	144	\$40,399.88	\$3,961.16	\$31,093.56	\$16,643.98	\$4,412.72	\$246.62	\$2,411.21	\$5,255.35
January	\$116,626.08	4113	2,942	1,089	82	\$45,482.85	\$4,345.09	\$39,289.85	\$12,249.11	\$4,746.21	\$437.19	\$7,337.39	\$2,738.39
February	\$112,505.55	4501	3,274	1,133	94	\$50,298.47	\$4,690.22	\$28,598.22	\$12,239.39	\$5,313.30	\$526.87	\$7,321.87	\$3,517.21
March	\$138,633.21	5345	3,979	1,308	58	\$59,781.27	\$6,646.40	\$31,028.14	\$21,750.85	\$6,965.96	\$751.07	\$4,829.91	\$6,879.61
April	\$133,490.87	5393	4,079	1,314	0	\$57,910.97	\$6,029.06	\$27,663.66	\$18,697.12	\$7,692.28	\$482.03	\$7,469.16	\$7,546.59
May	\$119,946.18	4808	3,686	1,122	0	\$51,797.05	\$5,824.29	\$28,972.06	\$12,452.73	\$8,201.46	\$369.93	\$8,362.63	\$3,966.03
June	\$101,584.02	4425	3,363	1,062	0	\$46,134.16	\$5,815.62	\$31,028.16	\$8,638.50	\$6,623.80	\$347.51	\$2,996.27	\$0.00
TOTALS	\$996,364.42	39566	29,579	9,459	528	\$435,506.37	\$47,761.20	\$246,739.17	\$123,815.20	\$54,697.28	\$4,383.11	\$42,135.92	\$41,326.17
			39,566 ROUNDS		REVENUE \$996,364.42								

FISCAL YEAR 2023

			STATS		Revenues							
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 9 HOLE	Member Rounds	Greens Fees	Carts	Membership	Merchandise	Food & Beverage	Club RENTAL	Golf Events	Country Club
October	\$98,534.98	3386	2,612	774	\$47,044.98	\$4,631.24	\$16,600.00	\$10,256.36	\$6,329.02	\$356.82	\$2,976.56	\$10,340.00
November	\$85,007.47	3424	2,506	918	\$43,030.83	\$4,296.38	\$15,507.97	\$8,858.43	\$5,052.64	\$201.34	\$2,323.82	\$5,736.06
December	\$102,334.22	3669	2,990	679	\$46,707.28	\$4,534.75	\$22,102.86	\$15,963.40	\$5,029.93	\$308.55	\$2,429.91	\$5,257.54
January	\$118,630.46	4493	3,716	777	\$55,161.53	\$5,452.92	\$27,962.69	\$12,815.68	\$5,822.33	\$398.31	\$4,953.27	\$6,063.73
February	\$117,733.27	3923	3,286	637	\$51,102.18	\$5,003.83	\$30,654.28	\$16,933.91	\$6,753.12	\$523.60	\$3,000.00	\$3,762.35
March	\$110,540.27	4570	3,878	692	\$55,898.05	\$6,393.05	\$21,822.48	\$14,405.90	\$7,390.40	\$719.95	\$0.00	\$3,910.44
April	\$107,026.11	3453	3,042	411	\$44,583.28	\$4,661.91	\$28,271.10	\$15,641.28	\$7,310.48	\$448.80	\$1,177.57	\$4,931.69
May	\$102,303.08	3715	3,198	517	\$46,434.74	\$4,954.02	\$20,934.64	\$12,200.65	\$7,568.20	\$400.18	\$7,336.55	\$2,474.10
June	\$95,681.72	3457	2,941	516	\$42,574.10	\$4,732.03	\$23,644.92	\$10,872.27	\$7,112.54	\$215.05	\$3,214.98	\$3,315.83
TOTALS	\$937,791.58	34090	28,169	5,921	\$432,536.97	\$44,660.13	\$207,500.94	\$117,947.88	\$58,368.66	\$3,572.60	\$27,412.66	\$45,791.74
			34,090		REVENUE							
			ROUNDS		\$937,791.58							

FISCAL YEAR 2022												
			STATS		Revenues							
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 9 HOLE	Member Rounds	Greens Fees	Carts	Membership	Merchandise	Food & Beverage	Club RENTAL	Golf Events	Country Club
October	\$176,630.38	2856	1,933	711	\$47,446.66	\$6,153.26	\$96,300.00	\$10,561.05	\$5,755.15	\$507.06	\$2,103.29	\$7,803.91
November	\$82,559.89	2822	1,734	829	\$44,449.49	\$5,034.81	\$5,000.00	\$12,201.24	\$5,107.49	\$422.55	\$3,277.94	\$7,066.37
December	\$103,651.02	3490	2,462	784	\$46,921.75	\$5,277.22	\$18,800.00	\$17,960.37	\$5,393.25	\$422.55	\$2,150.23	\$6,725.65
January	\$86,197.49	3466	2,405	835	\$45,365.38	\$5,110.31	\$10,000.00	\$12,628.15	\$5,029.00	\$356.82	\$2,378.40	\$5,329.43
February	\$95,911.91	3661	2,559	875	\$48,782.43	\$5,675.62	\$18,000.00	\$9,491.98	\$5,373.79	\$319.26	\$5,521.13	\$2,747.70
March	\$106,595.90	4027	2,869	935	\$53,225.08	\$6,355.72	\$18,200.00	\$11,751.79	\$7,216.46	\$403.77	\$6,801.88	\$2,641.20
April	\$104,630.73	4580	3,100	1,151	\$52,250.80	\$5,871.26	\$20,000.00	\$10,045.87	\$7,620.01	\$347.43	\$2,691.11	\$5,804.25
May	\$100,906.45	4312	2,888	1,215	\$52,255.65	\$6,425.81	\$20,400.00	\$8,286.06	\$7,379.00	\$300.48	\$3,516.45	\$2,343.00
June	\$91,611.56	3585	2,382	985	\$42,966.27	\$5,091.37	\$23,700.00	\$7,673.00	\$6,100.99	\$206.58	\$2,976.55	\$2,896.80
TOTALS	\$948,695.33	32799	22,332	8,320	\$433,663.51	\$50,995.38	\$230,400.00	\$100,599.51	\$54,975.14	\$3,286.50	\$31,416.98	\$43,358.31
			32,799		REVENUE							
			ROUNDS		\$948,695.33							

Winter Park Pines Golf Club (WP18)

FISCAL YEAR 2026 WP 18

			STATS			Revenues					
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 18 HOLE	Member Rounds	Driving Range	Greens Fees	Carts	Membership	Merchandise	Club RENTAL	Bonfire
October	\$215,985.75	2550	1,929	621	\$45,803.00	\$55,620.59	\$30,439.29	\$69,926.96	\$8,455.83	\$740.08	\$5,000
November	\$177,256.56	2971	2,272	699	\$25,589.38	\$66,657.74	\$37,801.91	\$32,632.04	\$8,751.31	\$824.18	\$5,000
December	\$181,925.64	3068	2,383	685	\$28,288.12	\$74,811.65	\$31,553.71	\$31,112.18	\$10,066.68	\$1,093.30	\$5,000
January	\$186,336.21	3508	2,569	939	\$32,430.90	\$78,490.77	\$31,257.15	\$31,292.45	\$7,225.78	\$639.16	\$5,000
February	\$168,676.74	3119	2,299	820	28,532.96	\$81,862.37	\$29,486.13	\$14,413.30	\$8,187.76	\$1,194.22	\$5,000
March	\$183,254.58	3950	2,866	1,084	34,094.31	\$83,524.09	\$37,817.45	\$12,108.63	\$9,330.86	\$1,379.24	\$5,000
April	\$171,328.63	3591	2,607	984	32,281.09	\$69,558.75	\$37,218.63	\$16,921.11	\$9,578.69	\$770.36	\$5,000
May	\$161,752.73	3934	2,349	1,585	34,442.76	\$55,564.97	\$36,744.54	\$20,893.31	\$8,373.80	\$733.35	\$5,000
June	\$133,317.23	3528	2,266	1,262	23,710.00	\$54,586.70	\$34,984.37	\$5,576.36	\$8,756.72	\$703.08	\$5,000
TOTALS	\$1,579,834.07	30219	21,540	8,679	285,172.52	\$620,677.63	\$307,303.18	\$234,876.34	\$78,727.43	\$8,076.97	\$ 45,000.00
			30,219 ROUNDS		REVENUE \$1,579,834.07						

FISCAL YEAR 2025 WP 18

			STATS			Revenues					
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 18 HOLE	Member Rounds	Driving Range	Greens Fees	Carts	Membership	Merchandise	Club RENTAL	Bonfire
October	\$184,091.55	1813	1,222	591	\$30,710.41	\$33,331.64	\$23,710.03	\$85,098.35	\$5,770.16	\$470.96	\$5,000
November	\$148,948.95	2676	1,909	767	\$24,517.74	\$54,204.88	\$35,806.44	\$21,305.83	\$7,390.80	\$723.26	\$5,000
December	\$143,956.11	2551	1,826	725	\$25,756.66	\$53,450.22	\$27,927.15	\$21,587.94	\$9,241.76	\$992.38	\$5,000
January	\$150,888.34	2570	1,854	716	\$25,328.54	\$50,751.80	\$28,412.31	\$33,696.82	\$6,807.41	\$891.46	\$5,000
February	\$161,363.20	3084	2,337	747	28,808.38	\$68,617.54	\$35,579.41	\$13,852.54	\$8,412.03	\$1,093.30	\$5,000
March	\$187,975.35	3489	2,702	787	37,692.72	\$80,131.68	\$45,810.93	\$8,065.14	\$10,316.14	\$958.74	\$5,000
April	\$186,942.76	3477	2,727	750	40,547.43	\$72,885.88	\$46,640.67	\$9,802.27	\$11,023.67	\$1,042.84	\$5,000
May	\$166,075.51	3261	2,559	702	34,762.14	\$63,898.89	\$40,848.38	\$11,448.25	\$9,562.79	\$555.06	\$5,000
June	\$157,312.03	3375	2,601	774	32,512.06	\$62,383.26	\$39,885.13	\$8,400.43	\$8,424.71	\$706.44	\$5,000
TOTALS	\$1,487,553.80	26296	19,737	6,559	280,636.08	\$539,655.79	\$324,620.45	\$213,257.57	\$76,949.47	\$7,434.44	\$ 45,000.00
			26,296 ROUNDS		REVENUE \$1,487,553.80						

FISCAL YEAR 2024												
			STATS			Revenues						
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 18 HOLE	Member Rounds	Driving Range	Greens Fees	Carts	Membership	Merchandise	Club RENTAL	Golf Events	Bonfire
October	\$233,088.16	2877	2,017	860	\$36,824.25	\$52,861.18	\$28,469.08	\$102,362.62	\$7,108.37	\$462.66	\$0.00	\$5,000
November	\$127,846.81	2644	1,829	815	\$22,054.75	\$53,982.07	\$25,793.46	\$13,156.83	\$5,999.93	\$1,859.77	\$0.00	\$5,000
December	\$137,599.19	2630	1,762	868	\$23,836.06	\$55,193.00	\$27,355.83	\$18,701.99	\$6,974.07	\$538.24	\$0.00	\$5,000
January	\$145,561.40	2894	1,975	919	\$25,435.71	\$58,286.50	\$32,133.27	\$18,951.20	\$5,065.10	\$689.62	\$0.00	\$5,000
February	\$141,172.46	2961	2,026	935	25,241.75	\$61,347.06	\$31,396.30	\$10,181.73	\$7,164.62	\$841.00	\$0.00	\$5,000
March	\$167,261.25	3476	2,479	997	33,489.98	\$73,263.62	\$41,308.29	\$3,333.33	\$9,890.47	\$975.56	\$0.00	\$5,000
April	\$151,877.58	3232	2,266	966	32,329.72	\$61,370.43	\$37,996.17	\$5,986.50	\$8,555.60	\$639.16	\$0.00	\$5,000
May	\$133,804.95	2870	2,199	671	27,475.47	\$47,131.25	\$36,527.23	\$8,899.28	\$8,199.84	\$571.88	\$0.00	\$5,000
June	\$132,149.88	2707	1,999	708	27,524.55	\$45,909.07	\$33,324.63	\$11,884.81	\$7,733.10	\$773.72	\$0.00	\$5,000
TOTALS	\$1,370,361.68	26291	18,552	7,739	254,212.24	\$509,344.18	\$294,304.26	\$193,458.29	\$66,691.10	\$7,351.61	\$0.00	\$ 45,000.00
			26,291		REVENUE							
			ROUNDS		\$1,370,361.68							

FISCAL YEAR 2023												
			STATS			Revenues						
DATE	TOTAL \$ (Pre-Sales Tax)	TOTAL Rounds per Month	# 18 HOLE	Member Rounds	Driving Range	Greens Fees	Carts	Membership	Merchandise	Club RENTAL	Golf Events	F&B
October	\$216,943.27	3600	2,900	700	\$19,009.19	\$53,478.19	\$28,469.08	\$104,837.10	\$6,149.71	\$0.00	\$0.00	\$5,000.00
November	\$130,480.28	2978	2,303	675	\$17,395.40	\$53,953.35	\$23,807.39	\$19,618.81	\$10,256.69	\$448.64	\$0.00	\$5,000.00
December	\$132,424.82	3583	2,856	727	19,881.58	\$68,162.49	\$31,347.12	\$14,733.68	\$12,466.51	\$715.02	\$0.00	\$5,000.00
January	\$173,423.27	3870	3,088	782	34,358.08	\$77,670.98	\$30,747.26	\$14,649.57	\$9,623.42	\$1,373.96	\$0.00	\$5,000.00
February	\$154,785.83	3723	3,060	663	29,741.84	\$78,291.55	\$30,485.50	\$2,056.08	\$8,299.56	\$911.30	\$0.00	\$5,000.00
March	\$179,816.28	4327	3,700	627	31,720.46	\$90,915.36	\$37,606.40	\$3,084.12	\$10,242.16	\$1,247.78	\$0.00	\$5,000.00
April	\$159,823.14	4464	3,689	775	27,829.22	\$71,194.73	\$36,283.41	\$9,766.38	\$8,922.22	\$827.18	\$0.00	\$5,000.00
May	\$153,421.32	4171	3,253	918	29,765.44	\$68,605.77	\$35,255.18	\$3,831.80	\$10,234.09	\$729.04	\$0.00	\$5,000.00
June	\$133,521.01	3439	2,662	777	29,491.55	\$58,010.46	\$30,373.17	\$747.68	\$9,393.43	\$504.72	\$0.00	\$5,000.00
TOTALS	\$1,434,639.22	34155	27,511	6,644	219,311.18	\$620,282.88	\$284,374.51	\$173,325.22	\$85,587.79	\$6,757.64	\$0.00	\$45,000.00
			34,155		REVENUE							
			ROUNDS		\$1,434,639.22							



Golf Course Advisory Board

agenda item 5.b

item type

Non-Action Items

meeting date

July 13, 2026

prepared by

approved by

subject

Irrigation Consultants

motion | recommendation

background

alternatives | other considerations

fiscal impact

attachments

1. WP18 JAS Irrigation Consulting Proposal 6-4-26
2. Winter Park Pines GC-WP18_ATI_ Irrigation Consulting Proposal-061526
3. ATI_Winter Park GC-System Evaluation-FINAL_050624

Prepared for
The City of Winter
Park



**JAS Irrigation
Consulting, LLC**

WHERE WISE USE OF WATER STARTS

Irrigation Consulting Proposal

Proposal for irrigation design consulting and project management services for WP18, the City of Winter Park.

Gregg Pascale – City of Winter Park
Golf Course Operations Manager

Jay Swanson CID, CGIA, CLIA, CIT
Irrigation Consultant





Gregg Pascale, Golf Course Operations Manager
The City of Winter Park
The Winter Park Pines Golf Club (WP18)

6/4/25

Gregg,

Thank you for the opportunity to provide a proposal and product solution for the Winter Park Pines Golf Club (WP18) irrigation system renovation needs. As requested, you will find the proposal for irrigation consulting services. This will provide the basis for a future full system irrigation upgrade at Winter Park Pines Golf Club (WP18). The proposal breakout includes a menu of services from System Assessment to Project Management.

Please know that I work diligently to differentiate myself, with extraordinary service and support bringing invaluable industry experience as a resource. I stand behind our designs, product specifications utilizing fantastic manufacturer and contractor relationships, to ensure the City of Winter Park will receive a successful high quality product. JAS Irrigation Consulting LLC is committed to bringing you unmatched service and support during the master planning, installation and beyond completion of the installation.

We take this opportunity to point out a few of the key benefits to the City of Winter Park when using JAS Irrigation Consulting LLC for your irrigation consulting needs.

- When a client hires JAS Irrigation Consulting LLC, owner Jay Swanson will be on site and work hand in hand with all stakeholders to ensure the planning, construction and finalization of the project runs smoothly.
- Jay has over 25 years of irrigation design experience in the golf industry, with a background in engineering and design, construction and project management. He has experience with product distribution, manufacturing (Toro, Rain Bird and Hunter) and construction to ensure oversight and product support is held to the highest level of expectation.
- Jay places great emphasis on flexibility and collaboration in all facets of his consulting process, considering each stakeholder's needs. Minor changes, revisions and phasing will not incur additional fees.

- JAS Irrigation Consulting, LLC is covered for general and professional liability insurance.
- Jay Swanson is a Certified Golf Irrigation Designer #004331, Certified Golf Irrigation Auditor, Certified Landscape Irrigation Auditor and holds a degree in Environmental Science with an emphasis on resource and energy conservation.
- Jay has been involved with or personally designed over 200 golf course irrigation systems throughout his career.

I look forward to sitting down with you, your team and course ownership and anyone else that will be involved in this renovation process. If you should have any additional questions or concerns, please feel free to reach out to me. I look forward to working with you on this project.

Very sincerely yours,



Jason Swanson CID, CGIA, CLIA, CIT

Owner and Founder

JAS Irrigation Consulting, LLC

E-mail: jason@jasirrigationconsulting.com

Ph: (518) 772-7750



Proposal for services to be provided by JAS Irrigation Consulting LLC to the City of winter Park**Irrigation Design : \$15,500**

Design of a new irrigation system for WP18, includes:

- On-site data collection, analysis of specific project scope, meeting with golf course and City of Winter Park representatives to discuss specific goals and vision.
- Fly the entire course with a drone to generate an orthomosaic aerial that can be used as the base map for design and layout.
- Production of an irrigation design including all hydraulics, electrical, and sprinkler layout with input from City stakeholders (City management, Golf Course Manager and Superintendent)
- Provide Plans, specifications and bid ready documents for contractors in .PDF format.

Staking : \$4,000

- Provide two (2) site visits for the staking of all sprinkler locations (Front 9/ Back 9).
- GPS supported as-staked drawings for field use and project records.

As-Built Review : \$3,500

Review of GPS map creation of final irrigation construction information.

- GPS As-built will utilize contractor daily work product and site visits to create final as-built maps.
- JAS Irrigation Consulting requires use of the latest surveyor grade R580 GNSS equipment from Trimble Industries with sub-centimeter/sub-millimeter accuracy at a minimum.

Central Control Programming and training : Included with GPS As-built production

- Jay will personally program the new Hunter Pilot CCS, Toro Lynx or Rain Bird Cirrus Pro database with all station information including, sprinkler and nozzle type, precipitation rates and hydraulic model
- Programming will occur in parallel with construction and GPS As-built creation.

Project Management : \$20,000 (10 site visits)

JAS Irrigation Consulting will provide the following Project Management:

- Attend pre-bid and pre-construction meetings to address and answer all pertinent questions.
- We will be present during delivery of all product from distribution to verify quantities and quality of product prior to construction start. All discrepancies will be addressed immediately.
- We will work with the City, course representative and contractor during the staging process to ensure a smooth start to the project.
- Bi-weekly site visits throughout the construction period to inspect and evaluate the contractor installation quality and recommend any changes/corrections.
- Coordinate course walkthrough with the City's representatives and the contractor to discuss challenges, progress and recommend solutions to address any concerns by both parties.
- Provide a follow-up brief with walk-through findings and punch list items
- Any additional site visits required by the city will be charged at \$2,000 per visit.
- Any remote meetings (Microsoft Teams, Zoom etc.) will be charged at \$250 per meeting.

Blueprints & As-Built: Included in the As-Built fee

- Provide two (2) sets of 11"x17" hole by hole As-built booklets.
- Wall mountable laminated As-built map 36" x 48".
- All pertinent project documents: As-Built, Product Cutsheets, Specifications, Distributor and contractor documents will be provided on a suitable storage thumb drive.
- Additional Blueprints or As-Built Booklets will be \$200 per printing.

In conclusion:

Total for Irrigation Design and Specification Production only: **\$15,500**

Total for Complete Project if all services are requested, including Project Management: **\$43,000**

Exceptions to fee structure:

- **Any fees or costs required or associated with the hiring of a Professional Engineer for stamping or project review. These costs are separate from JAS Irrigation Consulting LLC's service offering and will be borne by the City of Winter Park.**

Please see the below references for some of my most recent projects:

Warmouth Sands Golf Course (New Golf Course Construction 2023 – 2025, opening 2026)

Lyons, GA 30436

Hampton Kicklighter – Golf Course Superintendent

Cell – 239.440.1137

hamptonkicklighter@gmail.com

Villa Roma Resort (18 Hole Irrigation Renovation Apr 2023 – Jun 2024) – Phased

Callicoon NY 12723

Will O'Brien - Golf Course Superintendent

Cell: 845-807.3397

Willob4@yahoo.com

The Tunxis Country Club (45 Hole Irrigation Renovation October 2026 – Fall of 2027)

Farmington, CT 06032

Bryan Barrington – Owner, Alliance Northeast Golf Management

Cell: 203-687-3979

Norwood Country Club (18 Hole Irrigation Renovation October 2026 – April 2026)

Norwood, MA 02062

Kevin Osgood – Owner, Sterling Golf Management (Golf Course Management company)

Cell: 617-930-8650

Flatbush Golf Course (18 Hole Irrigation Renovation October 2026 – April 2026)

Littletown, PA 17340

Aaron Schroeder – Director of Agronomy, GreatLife Golf

Cell: 617-930-8650

Julington Creek Golf Course (18 Hole Irrigation Design & Budget Development 2025)

St Johns, FL 32259

Aaron Schroeder – Director of Agronomy, GreatLife Golf

Cell: 617-930-8650

Little Fishing Creek Golf Course (18 Hole Irrigation Design & Budget Development 2025)

Milledgeville, GA 31061

Jeff Miller – Director of Golf for Central Pro Supply

Cell: 231-357-5747

jmiller@centralpros.com

Asheville Municipal Golf Course (Front 9 Irrigation Renovation October 2026 – Fall of 2028)

Asheville, NC 28805

Ron Cutlip – Golf Course Architect : Cutlip Golf Design

Cell: 646-765-5540

ron@cutlipgolfdesign.com

Uncle Remus Golf Club

(9 Hole Irrigation Renovation October 2026 – April 2027)

Eatonton, GA 31024

Michael Benton, Superintendent

Cell: 706-474-3233

mbenton@putnamcountyga.us

Windsor Parke Golf Club (18 Hole Irrigation Renovation October 2027 – April 2028)

Jacksonville, FL 32224

Aaron Schroeder – Director of Agronomy, GreatLife Golf

Cell: 617-930-8650

Seven Springs Golf and Country Club

(18 Hole Irrigation Renovation October 2027 – April 2028)

New Port Richey, FL 34655

Aaron Schroeder – Director of Agronomy, GreatLife Golf

Cell: 617-930-8650

Aqua Turf International Consulting, Inc.

June 15, 2026

(Via Email)

Winter Park Pines Golf Club (WP-18)

Mr. Gregg Pascale

Golf Course Operations Manager

gpascale@cityofwinterpark.org

Dear Mr. Pascale,

Thank you for the opportunity to submit an irrigation consulting proposal for your upcoming project. The attached proposal outlines our irrigation design and construction services for the Winter Park Pines Golf Club (WP-18), including its 18-hole course and practice facility.

Aqua Turf International Consulting, Inc. (ATI) sets the industry standard for delivering high-quality irrigation systems within budget, using a collaborative, team-oriented approach. We work with all major irrigation manufacturers, prioritizing the owner's best interests. The strength of our company lies in the diversity and extensive experience of our staff.

During the design phase, all plans are created using AutoCAD 2025 and plotted in color to ensure clarity and ease of use. Updated plans and documents are hosted on Dropbox for seamless access by the client-City of Winter Park. Additionally, we provide a complete material take-off for all irrigation components, enabling accurate comparisons to ensure all bids are equitable. This service has consistently proven to save money for our clients.

Our construction phase services include specific sprinkler head layouts to ensure the irrigation design is accurately implemented on the golf course. Our staking services guarantee system efficiency and distribution while closely monitoring the overall budget. We utilize advanced Trimble GPS sub-centimeter units, TDC 600, and Trimble Connect software for precision staking, reviewing, and irrigation as-builts. This data can be incorporated into any GPS unit, Google Earth, ESRI, or global positioning software, enabling future troubleshooting and maintenance. The central computer will be programmed and mapped after each staking visit to ensure readiness for water delivery, with detailed finalization upon project completion.

I believe ATI's extensive experience and innovative approach make us an excellent fit for your golf course irrigation needs. With over 60 years of combined expertise in golf course irrigation design and construction, we have a proven track record of delivering successful projects. Our main office is in Tequesta, Florida, with an international office in Bangkok, Thailand.

Choosing ATI ensures peace of mind, knowing a team of seasoned irrigation professionals is always available. If selected, I will serve as the lead designer for your project. Additional information about our firm is available at www.aquaturfintl.com. Please feel free to contact me directly at 561-310-6260 with any questions. I look forward to the opportunity to work together with you and your team.

Thank you for your time and consideration.

Sincerely,



Sean Hyduk

Principal

**Irrigation Design Proposal
Winter Park Pines Golf Club (WP_18)
Winter Park, Florida
June 15, 2026**

Golf Irrigation Design Services

Pre-Design Consulting

ATI will coordinate and provide the following pre-design planning services:

Aerial and Base Map Acquisition:

- Provide an aerial map from an online source.

Water Use Planning:

- Collaborate with the city's representative and golf course superintendent, engineer, and other consultants as required to plan water use effectively.

Irrigation Planning and Scope Development:

- Conduct a detailed review of irrigation needs and develop a comprehensive scope of work.

Consumption Estimation:

- Estimate golf course water consumption requirements based on acreage, local weather patterns, turf/landscape needs, site conditions, and management practices.

Pump Station Review:

- Assess the existing pump station and provide projections for water requirements.

Irrigation System Consultation: Advise the client on irrigation system options, including:

- Control Systems: Satellite vs. Decoder/IC Systems
- Piping Systems: Herringbone vs. Loop Lateral Systems
- Piping Materials: HDPE vs. PVC, fittings, and valves

Preliminary Irrigation Design Services

ATI will provide the preliminary design services as follows:

Sprinkler Design Evaluation:

Collaborate with the city's representative, golf course superintendent and team to evaluate sprinkler design options.

Preliminary Layout and Revisions:

- Develop a preliminary sprinkler layout coverage plan and complete mainline routing.
- Provide reasonable revisions to the sprinkler layout plan at no additional charge.

Budget and Cost Estimates:

- Prepare a budget and soft cost estimates for the project.

Hydraulic Analysis:

- Conduct a piping system hydraulic analysis to ensure optimal performance.

Point of Connection Determination:

- Identify the point of connection along the golf course to facilitate common areas, if necessary.
- Note: This service does not include common area design outside the golf course corridors.

Pump Station Drawings:

- Provide pump station drawings, including intake pipe, intake screen, enclosure, and fertigation.
- Note: This service does not include pump station electrical service, building design, wet well structure, fertigation slab and containment walls.

Plan Updates and Accessibility:

- Update plans continuously and make them available for review online in PDF and AutoCAD formats. Share files via Dropbox for access by the city's representative, golf course superintendent, engineers, and other consultants.

Aqua Turf International Consulting, Inc.

Site Visits and Meetings:

- Includes one (1) day on-site meeting.

Final Irrigation Design

ATI will finalize the design documents to include the following:

Irrigation Plan Drawings:

- Detailed sprinkler layout, satellites/ remote units, electric auto valves, lateral pipe routing, pipe sizes, valve sizes and locations, and electrical wire routing and sizes.

Mechanical Plan:

- Design of one piping system (HDPE or PVC) with mechanical hydraulic specifications.

Electrical Plan:

- Design of one control system, satellite or two-wire/decoder-IC configurations, placement and sizing, power source locations, wire routing and sizes, and central communication requirements.

Communication Wire Plan:

- Drawing detailing communication cable routing and requirements.

Pump Station Specifications:

- Detailed specifications for the pump station, including all relevant components.

Construction Material and Installation Details:

- Comprehensive information on materials and installation procedures.

Irrigation Specifications:

- General and technical specifications for the irrigation system.

Bid Documents:

- Unit price bid documents and associated project information.

Material List:

- Complete list of irrigation materials with quantities.

Site Visits and Meetings:

- Includes one (1) day on-site meeting.

Bid Process Administration Services

ATI will prepare the following documents and provide administration services during the bidding process:

Material List Preparation:

- Compile a material list for sprinklers, pipes, wires, satellites/ remote units, valves, and other related irrigation materials.
- Ensure accurate comparisons between contractors and vendors to guarantee equitable bidding.

Bid Documents:

- Develop bid documents, including a list of irrigation unit price bid items and a product submittal section for contractors and vendors.

Pre-Bid Meeting:

- Attend an on-site pre-bid meeting with contractors and vendors to promote fair and competitive bidding.

Addendum Management:

- Prepare and manage the distribution of addendums to contractors as needed.

Bid Review and Compliance Monitoring:

- Review submitted bids to ensure compliance with project plans, specifications, and submittals, minimizing errors and omissions.

Bidder Evaluation and Recommendation:

- Evaluate bids and provide written recommendations to the city's representative to identify the most suitable bidder.

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Reimbursable Expenses

Travels Expenses: 3 site visits included in the lump sum price.

Additional site visits: Any site visits beyond those included in the agreement will be billed at \$1,500 per day.

Additional system designs: Design comparisons: Decoder-IC vs. Satellite systems or HDPE vs. PVC.

Plan Revisions: Revisions to plans after the final design approval will be billed at \$175 per hour.

Terms and Conditions

Proposal Validity:

- This proposal is valid until December 31, 2026.

Payment Terms:

- A service charge of 1.5% per month will be applied to all amounts overdue by more than 30 days from the invoice date.
- Fees are due as follows:
 - 25% upon commencement of work
 - 25% upon completion of 50% of the work
 - 25% upon completion of 75% of the work
 - The remaining balance is due upon completion of the work

Insurance Limits Provided

General Liability: Primary \$1,000,000 per occurrence/\$2,000,000 aggregate

Errors and Omissions: \$ 2,000,000 per claim/\$2,000,000 aggregate

Acceptance of Proposal

Please initial the requested services, sign, and return this document to formally accept the proposal.

Golf Course Irrigation Design Services

_____ Golf Irrigation Design Services **\$21,500**

Accepted by:

Title:

Date:

Aqua Turf International Consulting, Inc.

Main Office

Principal: Sean Hyduk
19940 Mona Road, Suite 2
Tequesta, FL 33469
Email: sean@aquaturfintl.com
Phone: 561-222-2650

International Office

Principal: Jim Schumacher
Suite 005, E5-11/3 Sukhumvit Rd., Klongteoy
Bangkok, Thailand 10110
Phone +66 813 092 230
Email: jbs@aquaturfintl.com

History

Aqua Turf International Consulting, Inc. (ATI) is a globally recognized irrigation consulting, design, and GPS mapping firm founded in 1999 by Jim Schumacher. With over 60 years of combined experience in irrigation consulting, ATI has successfully designed more than 200 golf course irrigation systems worldwide.

Our team of expert designers is committed to delivering innovative and customized solutions that address the unique needs of each client. ATI's mission is to maintain the highest standards of turf quality and irrigation design while meeting agronomic, economic, and environmental requirements. We pride ourselves on professionalism, timeliness, and collaboration, consistently exceeding customer expectations.

Services Offered

ATI provides comprehensive irrigation consulting services, including system evaluations, design, hydraulic analysis, electrical plans, pump station planning, water audits, usage reports, budget estimates, bid process administration, material take-offs, sprinkler staking and layout, construction and budget management, GPS as-builts, full-color maps and booklets, central control programming, field data entry, and Toro/Rain Bird computer mapping.

Staff Experience

Over 60 Years Combined Experience in Golf and Landscape Construction and Maintenance
Over 40 Two-Wire IC/Decoder Control Systems Designed (Timber Pines - largest in the world)
Over 60 HDPE Piping Systems Designed (Timber Pines Golf - largest in the world)
Landscape Architecture Degree – University of Florida, 1998
Turfgrass Management Degree – Mississippi State University, 1979
Certified Golf Course Superintendent, 1984 – 1989
Certified Texas Irrigator

Professional Affiliations

Members – American Society of Irrigation Consultants (ASCIC)
Members – Irrigation Association (IA)
Members – Palm Beach Golf Course Superintendents Association

Aqua Turf International Consulting, Inc.

PGA/USGA Golf Tournament Events

- **TPC Sawgrass, The Players Stadium Course – Ponte Vedra Inn, FL**
 - PGA Tour: The Players Championship
- **Sea Island Resort, Sea Side & Plantation Course – Sea Island, GA**
 - PGA Tour: RSM Classic
- **Innisbrook Resort & GC Copperhead Course – Palm Harbor, FL**
 - PGA Tour: Valspar Championship
- **Timuquana Country Club – Jacksonville, FL**
 - PGA Tour Champions: Constellation Furyk & Friends
- **Albany – New Providence, Bahamas, FL**
 - PGA Tour: Hero World Challenge
- **El Camaleon, Mayakoba Resort – Riviera Maya, Mexico**
 - PGA Tour: Mayakoba Golf Classic at Riviera Maya-Cancun
- **Mission Hills – Hainan Island, China**
 - PGA Tour: OMEGA Mission Hills World Cup
- **Broken Sound Country Club – Old Course, Boca Raton, FL**
 - PGA Champions Tour: Allianz Championship
- **The Quarry – Naples, FL**
 - PGA Champions Tour: The ACE Group Classic
- **The Bluffs at Ho Tram – Ho Tram Strip, Vietnam**
 - Asian Tour: Ho Tram Open
- **Fairmont Turnberry Isle Resort & Club (36-Holes) – Aventura, FL**
 - PGA Hosted: ADT Golf Skills Challenge
- **Soldier Hollow Golf Course (36) – Midvale, UT**
 - US Armature Pub Links
 - Site of 2002 Winter Olympic Games Cross Country Skiing
- **Casa de Campo – Teeth of the Dog**
 - 2016 Latin American Amateur Championship
- **Club de Golf de Panama – Panama City, Panama**
 - 2017 Latin American Amateur Championship
- **Ritz Carlton Golf Club – Orlando, FL**
 - PNC Father Son Championship
- **Sentosa Golf Club – Serapong Course - Singapore**
 - Asian Tour: SMBC Singapore Open

Firm's Management:

Sean J. Hyduk - Principal in Charge (Tequesta, FL Office)

Sean graduated from the University of Florida in 1998 with a bachelor's degree in landscape architecture. He brings extensive experience in the golf course industry, including irrigation design, golf course design, assistant project superintendent roles, and golf maintenance. Sean's expertise is a valuable asset to any irrigation design project. His design responsibilities encompass collaborating with owners, architects, and engineers; developing comprehensive irrigation designs; water use planning; material quantity take-offs; and managing the specifications and bid processes with contractors. During the construction phase, Sean works closely with contractors, conducts onsite inspections, lays out irrigation components, performs GPS mapping, programs central control systems, and provides detailed site visit reports to owners. Sean oversees all aspects of irrigation design, including specifications, bid documentation, construction management, GPS mapping, as-built development plans, and central computer irrigation programming..

Aqua Turf International Consulting, Inc.

Highlights of Qualifications:

- Over 25 years of experience in golf course development
- 20 years' experience in irrigation design and consulting handling over 100 projects
- Finalized over 100 GPS mapping and as-built development plans
- Completed over 100 Toro/Rain Bird/Hunter central control programming and hydraulic systems
- Comprehensive academic background in landscape architecture, design, and construction
- Extensive golf course construction and maintenance experience

Sean Hyduk (Municipal) Project Experience:

Sean was responsible for irrigation design and consulting, construction management, GPS as-built development, and central control system programming for the following projects:

- Hollywood Beach Golf Club – Hollywood Beach, FL (Under Construction)
- Sandridge Golf Club-Lakes & Dunes Course– Vero Beach, FL
- Sebastian Municipal Golf Course – Sebastian, FL
- Viera East Golf Club – Rockledge, FL
- Bobby Jones Golf Club – Sarasota, FL
- Barefoot Bay Golf Club – Barefoot Bay, FL (Construction Pending)
- St. John Golf Club – Elkton, FL
- Ocala Golf Club – Ocala, FL
- Lake Venice Golf Club – Venice, FL
- Pompano Beach Municipal Golf Course (36 Holes) – Pompano Beach, FL
- Ironwood Golf Club – Gainesville, FL
- Seven Bridges @ Springtree Golf Club – Sunrise, FL
- Palm Beach Par Three Golf Course – Palm Beach, FL
- Quail Valley Golf Course –Missouri City, TX

Jim Schumacher, Principal (Thailand Office)

Jim brings over 35 years of experience in golf maintenance and construction to his role. He earned a degree in Turfgrass Management from Mississippi State University and began specializing in irrigation as the Deputy Director of Parks for the City of Huntsville, AL. In this position, he installed and operated the first computer-controlled irrigation system for parks maintenance, managing over twelve parks from a single computer. Jim's expertise grew as he collaborated with Rain Bird on the product development of the Rain Bird Maxi and Maxicom systems. This central control experience has been instrumental in establishing ATI as a leader in commercial irrigation applications, serving prominent developers in Florida, including LandMar, Pulte Homes, Lennar Homes, and WCI. Jim also has extensive experience as a Certified Golf Course Superintendent (CGCS). In addition, he is a member of the PGA of America – Dixie Section, the American Society of Irrigation Consultants (ASIC), and is a Certified Texas Irrigator.

Project Management Responsibilities

Sean Hyduk: Direct person in charge. Sean's responsibilities include attending meetings, conducting site visits, design, system evaluations, pump station planning, budgeting, bid administration, material take-offs, on-site system staking and layout, construction oversight, field GPS work, as-built development, and system programming.

Jim Schumacher: Oversees quality control to ensure all work meets the highest standards.

Aqua Turf International Consulting, Inc.

References

Steve Ehrbar, Superintendent
Nokosi Club
(561) 262-4142
stephenehrbar100@gmail.com

Brian Birney, Superintendent
Everglades Club
(561) 602-1879
bbirney@theevergladesclub.org

Tony Nysse, Superintendent
Apogee Club
(561) 414-1394
tnysse@apogeeclub.com

Paul Malonson, GM/ COO
Vineyards Country Club
(239) 353-1500
pmalonson@vineyardscountryclubnaples.com

Eli Rahz, Superintendent
Lemon Bay Golf Club
(440) 376-1219
eli.rahz@lemonbaygolfclub.com

John Leibold, President
Leibold Irrigation, Inc.
(563) 213-0814
leiboldjnl@aol.com

Al Clements, Superintendent
Pablo Creek Golf Club
(904) 570-0574
aclements@pablocreekclub.com

Jon Cockerham, Superintendent
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Golf Course Irrigation Design/Consulting Project List

Selected Notable Projects

- TPC Sawgrass, The Players Stadium Course – Ponte Vedra Inn, FL (18 Holes)
- The Grove XXIII – Hobe Sound, FL
- Apogee Club – Hobe Sound, FL
- Pablo Creek Golf Club – Jacksonville, FL
- Sandglass Golf Club – Martin County, FL
- Palma Ceia Golf & Country Club - Tampa, FL
- The Everglades Club – Palm Beach, FL
- Timuquana Country Club – Jacksonville, FL
- White Oak (Dye & Legacy Course) – Yulee, FL
- Sea Island Resort (Plantation/ Seaside Course) – Sea Island, GA
- Innisbrook, Copperhead Course – Palm Harbor, FL

United States

- TPC Sawgrass, The Players Stadium Course – Ponte Vedra Inn, FL (18 Holes)
- Country Club of Charleston – Charleston, SC (Under Construction)
- The Ranch – Martin County, FL (Under Construction)
- Golf Course at Esplanade Rivergrass – Naples, FL (Under Construction)
- Bear Lakes Country Club (Links Course) – West Palm Beach, FL (Under Construction)
- Nokosi Club – Lake Worth, FL (Breaking Ground Spring 2026)
- The Wellington – Wellington, FL (Breaking Ground Spring 2026)
- New Holland Club – Aiken, SC (Breaking Ground Spring 2026)
- Boca West Country Club (Course #1) – Boca Raton, FL (Breaking Ground Spring 2026)
- High Ridge Country Club – West Palm Beach, FL (Breaking Ground Spring 2026)
- The Golf Club at Crown Colony – Fort Myers, FL (Breaking Ground Spring 2026)
- Sea Island Resort (Seaside Course) – Sea Island, GA (Breaking Ground Spring 2026)
- Golf Course at Esplanade St Mary's – St Mary's, GA
- Bent Pine Golf Club – Vero Beach, FL
- The Everglades Club – Palm Beach, FL
- Apogee Club – Hobe Sound, FL
- Miami Lakes Golf Club – Miami Lakes, FL
- Chi Chi Rodriguez Golf Club – Clearwater, FL
- Keys Gate Golf Club – Homestead, FL
- Sandglass Golf Club – Martin County, FL
- Addison Reserve Country Club – Delray Beach, FL
- Hollywood Golf Club – Hollywood, FL
- Avila Golf & Country Club – Tampa, FL
- Glynlea Country Club – Port St. Lucie, FL
- Vineyards Country Club (North & South Course) – Naples, FL
- University of Alabama Course – Tuscaloosa, AL
- Omni Amelia Island Resort (Oak Marsh Course) – Amelia Island, FL
- University Park Country Club – Sarasota, FL
- Wycliffe Golf & Country Club (West & East Course) – Wellington, FL
- Mission Inn Resort & Club (El Campeon Course) – Howey-in-the-Hills, FL

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- Delray Dunes Golf & Country Club – Boynton Beach, FL
- Watersound Club (The Third Golf Course) – Watersound, FL
- Loblolly Golf Course – Hobe Sound, FL
- Card Sound Golf Club – Key Largo, FL
- White Oak (Dye & Legacy Course) – Yulee, FL
- Hammock Dunes (Creek Course) – Palm Coast, FL
- Gleneagles Country Club (Victory Course)- Delray Beach, FL
- Lemon Bay Golf Club – Englewood, FL
- University of North Carolina, Finley Golf Course – Chapel Hill, NC
- The Killearn Club – Tallahassee, FL
- Naples Heritage Golf & Country Club – Naples, FL
- Saltleaf Golf Preserve – Bonita Spring, FL
- Bobby Jones Golf Club – Sarasota, FL
- Timuquana Country Club – Jacksonville, FL
- Omni Amelia Island Resort (Little Sandy Short Course) – Amelia Island, FL
- Ventura Country Club – Orlando, FL
- Sunseeker Resort, Aileron Golf Course – Charlotte Harbor, FL
- Viera East Golf Club – Rockledge, FL
- St. John Golf Club – Elkton, FL
- Mariner Sands Country Club (Gold Course) – Stuart, FL
- The Grove XXIII – Hobe Sound, FL
- Marsh Landing – Jacksonville, FL (Construction Pending, TBD)
- PGA National (Squire/Palmer-2020, Fazio-2021, Champ 2022/23) – Palm Beach Gardens, FL
- Lely Resort Golf & Country Club (Flamingo Course) – Naples, FL
- St Andrews Club – Delray Beach, FL
- Suntree Country Club, Challenge Course – Melbourne, FL
- Barefoot Bay Golf Club – Barefoot Bay, FL (Construction Pending, TBD)
- Stillwater Golf Club – Jacksonville, FL
- Pablo Creek Golf Club – Jacksonville, FL
- Gulf Harbour Yacht & Country Club – Fort Myers, FL
- Seven Lakes Country Club – Fort Myers, FL
- Ponte Vedra Inn & Club – Ponte Vedra Beach, FL
- Mariner Sands Country Club (Blue Course) – Stuart, FL
- Pelican Bay Golf Club – Naples, FL
- Hobe Sound Golf Club – Hobe Sound, FL
- Oceanside Country Club – Ormond Beach, FL
- Sea Island Resort (Plantation Course) – Sea Island, GA
- High Hampton Golf Resort – Cashiers, NC
- Fiddlesticks Country Club – Fort Myers, FL
- Butternut Creek Golf Course – Blairsville, GA
- Banyan Golf Club – West Palm Beach, FL
- Boca Country Club – Boca Raton, FL
- Floridian Par 3 – Palm City, FL
- Lexington Country Club – Fort Myers, FL
- Sandridge Golf Club-Lakes Course– Vero Beach, FL
- Aberdeen Golf & Country Club – Boynton Beach, FL
- Indian Hills Golf Club – Murfreesboro, TN

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- Pleasant Valley Country Club– Little Rock, AR
- Loxahatchee Club – Jupiter, FL
- Banyan Creek Golf Club – Palm City, FL
- Turtle Creek Club – Tequesta, FL
- The Plantation at Ponte Vedra Beach – Ponte Vedra Beach, FL
- Royal Poinciana Golf Club – Naples, FL (9 Holes)
- Golf Club of the Everglades – Naples, FL
- Sebastian Municipal Golf Course – Sebastian, FL
- Atlantic Beach Country Club – Atlantic Beach, FL
- Georgia Tech Golf Facility – Atlanta, GA
- The Club at Admirals Cove (Village Course) – Jupiter, FL
- Laurel Oak Country Club – Sarasota, FL
- Country Club at Mirasol – Palm Beach Gardens, FL
- Innisbrook, Copperhead Course – Palm Harbor, FL
- The Club at Boca Pointe – Boca Raton, FL
- Hammock Dunes Club – Palm Coast, FL
- Sandridge Golf Club-Dunes Course – Vero Beach, FL
- Bay Colony Golf Club – Naples, FL
- Lake Venice Golf Club – Venice, FL
- Floridian Yacht & Golf Club - Palm City, FL
- Timber Pines Golf Community (63 Holes & 7 miles of common area) – Spring Hill, FL
- Palma Ceia Golf & Country Club - Tampa, FL
- Suntree Country Club, Classic Course – Melbourne, FL
- Pompano Beach Municipal Golf Course (36 Holes) – Pompano Beach, FL
- Gator Creek Golf Club - Sarasota, FL
- Gleneagles Country Club (Legends Course) – Delray Beach, FL
- Palm Beach Country Club – Palm Beach, FL
- Ironwood Golf Club – Gainesville, FL
- Sterling Club @ Houston National – Houston, TX
- Seven Bridges @ Springtree Golf Club – Sunrise, FL
- Palm Beach Par Three Golf Course – Palm Beach, FL
- Ocean Reef Club – Key Largo, FL
- Roaring Gap Club – Roaring Gap, NC
- Tara Golf & Country Club – Bradenton, FL
- Quail Valley Golf Course –Missouri City, TX
- Ocala Golf Club – Ocala, FL
- Sawmill Creek Golf – Palm Coast, FL
- Tequesta Country Club – Tequesta, FL
- Imperial Golf Club East – Naples, FL
- Pipers Landing Yacht & Country Club – Palm City, FL
- Royal Palm Beach Commons- Royal Palm Beach, FL
- The Resort at Lake Conroe- Montgomery, TX
- Quail Creek Villages Golf Course – Naples, FL
- Orange Tree Country Club – Orlando, FL
- Ashley Farms Golf & Country Club – Ocala, FL
- Deering Bay Yacht & Country Club – Coral Gables, FL
- Fisher Island Club – Fisher Island, FL

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- Ave Maria – Naples, FL
- Gladstan Golf Course – Payson, UT
- The Polo Club of Boca Raton – Boca Raton, FL
- Boca West Country Club Course (Course #2 & Course #4) – Boca Raton, FL
- The Quarry – Naples, FL
- South Seas Island Resort – Sanibel Island, FL
- Fairmont Turnberry Isle Resort & Club (36-Holes) – Aventura, FL
- Carmel Valley Ranch – Carmel, CA
- Tern Bay Country Club (27-Holes) – Punta Gorda, FL
- Briar Rose Golf Club – White Plains, Georgia
- Southern Hills Plantation – Brooksville, FL
- Indian Spring Country Club – Boynton Beach, FL
- Jacaranda West Country Club – Venice, Florida
- Ibis Golf and Country Club – Palm Beach Gardens, FL
- Red Tail Run Golf Club – Decatur, Illinois
- Broken Sound Country Club – Old Course & West Course, Boca Raton, FL
- Wilderness Ridge Country Club – Lincoln, NE
- Belleair Country Club (2002). – Belleair, FL
- Persimmon Woods Country Club – St. Louis, MO
- Eaglewood Country Club – Hobe Sound, FL
- Camino Real Golf Course – Frio County, TX
- Twin Bridges Golf Course – Gadsden, AL
- Doral Resort and Spa – Great White Course, Miami, FL
- Bollettieri Academy – Bradenton, FL
- Feather Sound Country Club – Clearwater, FL
- Fishhawk Creek Golf Club – Sarasota, FL
- Legacy Ridge Country Club – Bonham, TX
- Soldier Hollow Golf Course (36 Holes) – Midvale, UT
- Thunder Bayou Golf Club – Blytheville, AR
- Gateway Golf and Country Club, Naples, FL
- Quail Valley Golf Club – Vero Beach, FL
- Tiburon Golf Club – Naples, FL
- Windstar Country Club – Naples, FL
- The Landings Club, Marshwood Course – Savannah, GA
- The Landings Club, Magnolia Course – Savannah, GA
- Riverchase Country Club – Birmingham, AL
- Cape Coral Golf & Tennis Club – Cape Coral, FL
- Circling Raven Golf Club – Worley, ID
- Saratoga Springs Country Club – UT
- PGA West – Norman Course – Palm Springs, CA
- Baton Rouge Country Club – Baton Rouge, LA
- Imperial Country Club West – Naples, FL
- Champions Gate Golf Club – Kissimmee, FL
- Osprey Cove Country Club – St. Mary's, GA
- Burnt Store Country Club – Punta Gorda, FL
- Southwood Golf Club – Tallahassee, FL
- My Old Kentucky Home State Park – Bardstown, KY

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- Deerfield Country Club – Deerfield Beach, FL
- Renaissance Park – Spartanburg, SC
- Dixon Country Club – Dixon, MO
- Arkadelphia Country Club – Arkadelphia, AR
- Hillcrest Country Club – Hollywood, FL

International

- Knokke Golf Club – Knokke, Belgium (Construction Pending)
- Kilada Hills – Kanidi, Greece (Construction Pending)
- Biwaco Country Club – Ritto, Japan (Construction Pending)
- Banh Thien Beach and Golf Club – Cam Ranh, Vietnam
- Amata Springs Country Club – Chonburi, Thailand (Construction Pending)
- DHA Multan Golf Course – Multan, Pakistan
- Novaland - Ocean and Garden Courses (36 Holes) – Ho Chi Minh City, Vietnam
- Xili Golf Club (Renovation – 36 Holes) – Shenzhen, China
- Sonadezi Golf Club Chua Duc, Vietnam- Chua Duc, Vietnam
- Sunrise Golf Club (Resort and Championship Courses) – Dong Hoi, Vietnam
- Serena Valley Golf Club – Hanoi, Vietnam
- Phu Sa Golf Club - Can Tho, Vietnam
- Elite Reverie Golf Club - Islamabad, Pakistan (Construction Pending)
- Thai Country Club – Bangkok, Thailand
- Tanjung Aru Eco Development - Kota Kinabalu, Malaysia
- Victoria Golf & Country Resort - Sri Lanka
- Ayutthaya Golf Club & Sports Center - Ayutthaya, Thailand
- Laem Chabang Golf Club – Chonburi, Thailand
- Mars De Indias Golf Club - Cartagena, Columbia
- Cau Doung Golf Resort - Hanoi, Vietnam
- Lotus Cam Ranh – Can Ranh, Vietnam
- Ashgabat Golf Club – Ashgabat, Turkmenistan
- Chee Chan – Pattaya, Thailand
- Nikanti Golf Club – Bangkok, Thailand
- Sentosa Golf Club – Singapore (Serapong and Tanjong Courses)
- Empire Hotel and Resort – Brunei
- Limni Resort – Chrysochou Bay, Cyprus (Nicklaus and Player Courses)
- Santapazienza Country Club – Itatiba-Sao Paulo, Brazil
- Estancia La Paz – Ascochinga Cordoba, Argentina
- Casa De Campo, Dye Fore Course – La Romana, Dominican Republic
- Casa De Campo, Five - Lakes Course – La Romana, Dominican Republic
- Casa De Campo, Links Course – La Romana, Dominican Republic
- Playa Nueva, Bahia Principe, La Romana – La Romana, Dominican Republic
- Casa De Campo, La Romana C. C. – La Romana, Dominican Republic
- Playa Nueva, Bahia Principe, La Romana – La Romana, Dominican Republic
- Santa Maria Golf Club – Panama City, Panama
- Imperial Golf Estates – Ludhiana, India
- The Petecourse – St.Petersburg, Russia
- Meishan Island Golf – Ningbo, China
- Phoenix International Resort – Dayi, China

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- Cite De La Democratie – Libreville, Africa
- Laguna Golf Club – Phuket, Thailand
- The Sanctuary Golf Resort – Chongming, China
- Dakak Golf and Resort – Dakak, Philippines
- Sanya Cheung Kong Golf Club – Sanya, China
- Royal Golf de Marrakesh– Morocco
- Ho Tram Golf Club – Vung Tao, Vietnam
- Sunrise Golf Club – Yang Mei, Taiwan, R.O.C.
- Siam Country Club – Pattaya, Thailand
- Guilin Landscape Golf Club – Guilin, China
- Raevo Golf Club – Moscow, Russia
- Pine Rock Beach Golf Club – Beidaihe, China
- Mozanaque Golf Club – (36 Holes) – Madrid, Spain
- The Peninsula – Wuhan, China
- Costa Baja Resort & Marina – LaPaz, Mexico
- Sanya Olympic Park – Sanya, China
- Albany – New Providence Bahamas
- Isla Viveros – Las Perlas, Republic of Panama
- Acacia Golf Club – Karachi, Pakistan
- Saadiyat Island Beach Course – Abu Dhabi , United Arab Emirates
- The Malkai – Muscat, Oman
- Skolkovo Golf Club – Moscow, Russia
- La Colonia – Dominican Republic
- Durrat Al Bahrain – Bahrain
- Mazagan Beach Resort – El Jadida, Morocco
- Agile Golf Club – Hainan Island, China
- Mercur Golf Club – Almaty, Republic of Kazakhstan
- Mission Hill Haiku – Haiku, Hainan Island, China (Courses A-F)
- Mission Hills (9) 18-Hole Courses – Hainan Island, China
- Ritz Carlton Cairo Palm Hills Resort (27 Holes) – Giza, Egypt
- Bijao Golf Club – Panamá City, Panamá
- Grand Coral – Playa Del Carmen, Mexico
- Valle Del Golf – Cordoba, Argentina
- Shenzhen Tycoon (Dye Course) – Shenzhen, China
- Chiba National Golf Club – Chiba, Japan
- Keya Golf Club – Fukuoka, Japan
- Kunming Caiyunwan Golf Course – Kunming, China
- Jinhai Golf Club – Ping Gu (Beijing), China
- Durrat Golf Club – Bahrain
- Mercur Golf Club – Almaty, Republic of Kazakhstan
- Skolkovo Golf Club – Moscow, Russia
- Allegria Golf Club – Giza, Egypt
- Cu Chi Golf Club – Ho Chi Minh City, Vietnam
- Porto Mariccio Golf Club – Istria, Croatia
- Golf Club Ibar – Sofia, Bulgaria
- Palm Hills Resort – Giza, Egypt
- El Ein Golf Resort – El Ein, Egypt

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- **Tai Ping Lake Golf Course – Hua Shan, China**
- **Le Paradis Golf Club – St. Lucia, British Virgin Islands**
- **Costa Isabela – Isabela, Puerto Rico**
- **Los Inkas Country Club – Lima, Peru**
- **Playa Grande Golf Club – Dominican Republic**
- **Arabian Ranch G. C., Baker-Finch Course – Dubai, United Arab Emirates**
- **Ritz-Carlton Resort – Grand Cayman, Cayman Islands**
- **El Camaleon, Mayakoba Resort – Riviera Maya, Mexico**
- **Puerto Los Cabos Golf Club – San Juan Los Cabos, Mexico**
- **Playa Mujeres Golf Club – Playa Mujeres, Mexico**
- **Temenos Golf Club – Rendezvous Bay West, Anguilla B.W. I.**
- **Caranage Bay Resort – Canouan, Grenadines**
- **Four Seasons Resort – Nevis, West Indies**
- **Beef Island Airport – Tortola, BVI**
- **Cedar Valley Golf Club – Antigua, British West Indies**
- **Levera Golf Club – Grenada, British West Indies**
- **Radisson Cable Beach Resort – Nassau, Bahamas**
- **Bahama Falls Golf Club – Emerald & Ruby Courses, Freeport, Bahamas**

Winter Park Pines Golf Club

City of Winter Park, Florida

Irrigation System Evaluation

Prepared by:



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Irrigation System Evaluation

I. Purpose of Study

The purpose of this study is to evaluate the current status of the golf course irrigation system and provide the anticipated life expectancy of the system. The irrigation system evaluation will assist in determining the capabilities, effectiveness and inefficiencies of the systems. Conclusions will then be drawn as to the extent of replacement and the timing thereof. The report will include the criteria listed below.

- A. Overview**
- B. Evaluation of the Irrigation System**
- C. Irrigation System Efficiency**
- D. Recommendations**
- E. Irrigation System Replacement Cost**
- F. Life Expectancy of the Irrigation System**
- G. Site Visit Pictures**

A. Overview

On Friday, March 29, 2024, Sean Hyduk, President of Aqua Turf International Consulting, Inc. “(ATI)” performed a site inspection of irrigation system at Winter Park Pines Golf Club, 18-hole facility. During the site evaluation, the entire systems were inspected. This inspection included the following components:

- History
- Water Supply
- Water Source
- Mainline Pipe, Fittings and Valves
- Sprinklers and Coverage
- Field Control and Wiring
- Control System

In addition, information was collected from Doug Andrade, Director of Golf Course Operations, and his staff with over 20 years of on-site experience. Their combined experience was helpful in gathering historical and daily operation data of the system showing the effects on the turf maintenance program. The following topics were discussed with them:

- Original Installation
- Standards of Operation
- Maintenance Procedures and History
- System Performance and Limitations
- Turf Needs
- Soil Conditions
- Water Use

B. Evaluation of the Irrigation System

Golf Course: Winter Park Pines Golf Club, 18-hole facility

Location: Winter Park, Florida

Superintendent Name: Doug Andrade

- **History:** Originally opened in 1954
 - Last known Irrigation Install: Early 1980's Contractor: Unknown
 - Renovations Date: None Upgrades: Small additions, replacing sprinklers, controllers, pipe and fittings as needed
- **Water Supply:** Direct feed from local reclaim water treatment facility
 - Quantity: Unknown GPM: Varies PSI: Varies
 - Quality: High chloride levels-Varies at certain parts of the year.
 - Restrictions: None
 - Well Pumps: None
 - Run Time Window: 14 hours
 - Notes: Water quality and variable pressures (PSI) is one of the major factors of poor turf health on the golf course. High Chloride levels creates burn out turf conditions mostly seen on greens. 14 hour run time is very poor and interferes with play during the morning and evenings.
- **Water Storage:** None
- **Pump Station:** No Pump Station
 - Size: GPM: NA PSI: NA
 - Fertigation: No
 - Water Use Reports: NA Pump Logs: NA
 - Notes: 99% of all golf courses in Florida run off some sort of pumping system either a pump station or wells from a known source.
- **Pipe, Fittings, Valves:**
 - Mainline Pipe: PVC Class 160 Condition: Fair
 - Lateral Pipe: PVC Class 160 Condition: Fair
 - Pipe Fittings: Mix - Pierce Fittings Condition: Very poor
 - Service Tee's: PVC & Galvanized Condition: Poor
 - Valves: None Working Condition: Very poor
 - Electric Valve: Brass & Plastic Condition: Fair
 - Independent Lateral Pipe Isolation: No
 - Mainline Pipe Isolation: Yes- poor working order or lost
 - Notes: Peirce fittings have been failing at alarming rate for years, very typical at other golf course with these fittings. Class 160 PVC pipe is worn and will need to be replaced, this was one of the cheapest pipes used on golf courses and have the highest failure rate. No Isolation valves on the golf course crates significant problems when irrigation problems arise. The maintenance staff is forced to shut off main water source valve creating water hammer every time it opens and closes worsening the condition of the pipe and fitting even causing additional breaks.

- **Sprinklers & Coverage:**

- Make & Model: Mix match of Rain Bird and Hunter sprinklers
- Sprinkler Actuation: Electric valve actuated block system operating 2-6 sprinklers at a time
- Individual Sprinkler Performance: Very poor
- Excessive Sprinkler Spacing (Dis.): Yes text.
- Sprinkler Patter: Single
- Sprinkler Pressure: Poor text.
- Perimeter & Rough Sprinkler Coverage: No
- In/Out Sprinklers on Greens: No
- Individual Sprinkler Control: No
- Replacement of original Sprinklers Qty: Yes
- Green Coverage: Poor
- Tee Coverage: Poor
- Fairway Coverage: Poor
- Rough Coverage: Very poor
- Distribution Uniformity (DU) *Measures how even the water is applied across the turf:* Very poor
- Notes: A block system on a golf course provides the least amount of control of water of any irrigation system. Golf maintenance is forced to overwater or under water areas of need. Golf courses are 80 acres or more and need different water requirements at different areas on a golf course, such as greens, tees fairways and roughs. These areas need to be individually controlled to get water where you need it. Block system are actuated by one electric valve turning on 2 to 6 sprinklers at a time. Most golf courses today are individually controlled by each sprinkler.

- **Field Control:**

- Activation: Electric – Residential commercial control boxes strung together
- Control Box: There are only a few control boxes on site Condition: Poor
- Electric Satellite Control: No
- Central Control: NO Condition: NA
- Grounding: No
- Notes: Very limited

- **Site Inspection:**

- Total Amount of Irrigated Turf - Acres: 80
- Existing As-Built: No
- Standards of Operation: Night Time & day time interfering with play
- Turf Type: Mix Bermuda
- Soil Conditions: Mucky to organic sand, with sand cap tees

C. Irrigation System Efficiency

The findings in this summary and recommendations are based on ATI's site evaluation of the irrigation system as detailed in Section B. The current state of the irrigation system creates numerous limitations of the turf maintenance, aesthetics and playability of the course. The weaknesses in the irrigation system are the lack of attention and wear and tear over the life of the irrigation system. Below are the primary weaknesses not listed in order.

Primary Weaknesses

- Inferior type and age of the pipe, fittings, valves, wire, sprinklers and controllers
- Single row sprinkler spacing
- Full circle block irrigation system on greens, tees & fairways
- Very poor sprinkler coverage, spacing and pattern
- Failing pipe & fittings
- Limited inboard and outboard sprinklers on greens complex
- No independent fairway and tee lateral pipe isolation
- Inadequate mainline and lateral pipe sizes
- Limited mainline pipe isolation
- Old equipment with no replacement part
- Lack of individual sprinkler control
- No central computer
- Excessive irrigation run time window
- No perimeter and rough sprinkler coverage
- Poor water quality
- Inability to operate multiple sprinklers simultaneously when needed.
- Poor sprinkler head placement on greens
- Poor sprinkler pressure

ATI has rated the overall irrigation system on a 100-point scale with 100 being the highest possible quality. Ten points is the highest possible score in each of the categories. Based on our evaluation, I have rated the course as follows:

Winter Park

Design	2.0
Sprinkler Pattern & Coverage	2.0
Water Source	3.0
Hydraulic Capacity	2.0
Satellite Control Capability	2.0
Water Use Efficiency and Quality	2.0
Installation Quality	2.0
Labor & Power Efficiency	2.0
Age and Material Quality	1.0
Frequency of Repair	2.0
TOTAL	20.0

Note: Most courses with an over **30-year** life cycle average score are around **40.0**.

D. Recommendations

Recommendations are formulated based on the results of the complete analysis and our firms' irrigation design experience. Improvements to the system are required in every category. The option of repair or partial replacement is not recommended due to the extensive nature of the weaknesses listed above. The entire irrigation system is failing; pipe, fittings, valves, satellites and sprinklers creating a significant problem. The frequency of these repairs compounds the problem each time a repair is made. The maintenance staff is spending as much time on past repairs as they are on new ones. It is extremely inefficient in the use of labor. The system can continue in its current state but is ineffective for growing or maintaining grass. The loss of Bermuda turf is very evident onsite, due to lack of irrigation coverage. ATI recommends starting with a master plan for a new irrigation system. The irrigation renovations should coincide with any other improvements to the course or by itself.

E. Life Expectancy of an Irrigation System

There are many reasons why golf course irrigation systems are replaced. The factors that affect the life expectancy of an irrigation system are:

- Age and System Operation: Years of abuse from water hammer from no isolation and poor pumping system. Poor water quality (including fertigation) will fatigue even the best PVC pipe and fittings to a point where they will inexplicably break at any time.
- Additions to the System: Many systems do not sufficiently irrigate the required area and adding pipe and Sprinklers to a system can exceed the original hydraulic capacity and weaken the system along with poor pressure.
- Product Substitution: Installers, suppliers and Owners have been known to substitute specified products with inferior ones expecting them to perform the same as the higher quality and more expensive product. Over the years the less value equipment fails at a much quicker rate.
- Poor Product Selection: Some products are selected and used without having a proven track record in the golf course industry at the time of the design. This results with a less than perfect outcome as seen with the Pierce fittings of the 80's/90's.
- Poor Installation: Even the best products can be mistreated and misused through poor installation procedures resulting in a shorter than normal life span.
- Poor Maintenance: Every system requires regular maintenance, checking grounding, exercising valves and regular pump maintenance. If this is neglected for a long period of time, problems will start small and compound themselves into larger problems.

The estimated irrigation life remaining on the current system:

- Sprinklers: 0-4 years (Failing and being replaced with new sprinklers constantly)
- Controllers: 0-3 years (Failing and being repaired with outdated parts)
- Central Computer: None
- Pipe: 0-5 years (Failing and being patched and repaired)
- Fittings: 0-3 years (Failing and being patched and repaired weekly)
- Valves: 0 years (Failing and or lost, Not being fixed or replaced, few left that work)

GOLF COURSE ITEMS EXPECTED LIFE CYCLE

HOW LONG SHOULD PARTS OF THE GOLF COURSE LAST?

No two golf courses are alike except for one thing: deferring replacement of key items can lead to greater expense in the future, as well as a drop in conditioning and player enjoyment. The following information represents a realistic timeline for each item's longevity.

Component life spans can vary depending upon location of the golf course, quality of materials, original installation and past maintenance practices. The American Society of Golf Course Architects (ASGCA) encourages golf course leaders to work with an ASGCA member, superintendents and others to assess their course's components.

ITEM	YEARS
Greens (1)	15 – 30 years
Bunker Sand	5 – 7 years
Irrigation System	10 – 30 years
Irrigation Control System	10 – 15 years
PVC Pipe (under pressure)	10 – 30 years
H.D.P.E. Pipe	40 – 60 years
Pump Station	15 – 20 years
Cart Paths – asphalt (2)	5 – 10 years (or longer)
Cart Paths – concrete	15 – 30 years (or longer)
Practice Range Tees	5 – 10 years
Tees	15 – 20 years
Corrugated Metal Pipes	15 – 30 years
Bunker Drainage Pipes (3)	5 – 10 years
Mulch	1 – 3 years
Grass (4)	Varies

NOTES: (1) Several factors can weigh into the decision to replace greens: accumulation of layers on the surface of the original construction, the desire to convert to new grasses and response to changes in the game from an architectural standpoint (like the interaction between green speed and hole locations). (2) Assumes on-going maintenance beginning 1 - 2 years after installation. (3) Typically replaced because the sand is being changed – while the machinery is there to change sand, it's often a good time to replace the drainage pipes as well. (4) As new grasses enter the marketplace – for example, those that are more drought and disease tolerant – replanting may be appropriate, depending upon the site.

ASGCA thanks those at the USGA Green Section, Golf Course Builders Association of America, Golf Course Superintendents Association of America and various suppliers for their assistance in compiling this information.

The materials presented on this chart have been reviewed by the following Allied Associations of Golf:



For more information, contact ASGCA at (262) 786-5960 or visit www.ASGCA.org

DATA COMPILED BY ASGCA, 125 NORTH EXECUTIVE DRIVE, SUITE 302, BROOKFIELD, WI 53005

F. Irrigation System Replacement Cost

The construction estimate provided outlines the cost of installing a new irrigation system today, including various components such as sprinklers, pipe, wire, controllers and a new central computer. The estimate suggests an installed cost range of \$1,800,000 to \$2,200,000 for the irrigation system itself. Adding a new pump station, wet well, intake line and screen could cost another estimated \$300,000 - \$450,000.

It's noted that accurate estimates can be challenging due to fluctuations in the cost of materials like pipe and wire, as well as variations in quantities based on the scope of work. To obtain a more precise estimate, it's recommended to hire an irrigation consultant to prepare a design. This design should include detailed plans for sprinkler layout, coverage, mainline routing, and mechanical and electrical components.

Once the design documents are finalized, the project can be put out to bid by qualified irrigation contractors. This process ensures that the project receives competitive pricing and that the selected contractor can execute the installation according to the specified requirements.

Overall, following these steps—hiring a consultant, preparing detailed design documents, and soliciting bids from qualified contractors—will help ensure an accurate estimate and successful implementation of the new irrigation system.

Renovating irrigation systems demands careful planning but does not mean that the golf course needs to close. The golf course shall remain open with only one hole closed at a time to minimize disruption to regular play. There are several approaches—installing all 18 holes in one year or replacing them in phases—have their advantages and considerations.

Installing all 18 holes in one year offers the benefit of completing the renovation swiftly, minimizing overall disruption to regular play by shutting down only one hole at a time. However, this approach might require more resources, including equipment, manpower, and coordination. It also necessitates a longer construction window.

On the other hand, phased installation, with 9 holes replaced each year, spreads out the disruption over multiple seasons. This approach allows the course to be only down one hole at a time for a shorter duration of the season, maintaining revenue streams to a greater extent. However, it extends the overall renovation timeline and will require more costs, such as contractor mobilization.

The choice between these approaches depends on factors such as budget, course utilization, and the tolerance for disruption by both management and players. Municipal golf courses like Sand Ridge Golf Club and Sebastian Municipal Golf Course serve as successful examples of executing irrigation renovations while managing these considerations effectively.

G. Summary

Based on the assessment provided, it seems clear that a completely new irrigation system is the most viable option for ensuring the long-term success of the golf course turf. Attempting to add onto or repair the current system would likely be ineffective and could potentially exacerbate existing issues due to its age and degradation.

Professionally, it would be prudent not to recommend any upgrades or repairs to the current system, as doing so would not address the fundamental problems outlined in the report. Instead, investing in a new irrigation system would not only resolve existing issues but also provide numerous benefits, including improved turf health, water efficiency, and overall course sustainability.

By making this recommendation, the golf course can position itself for long-term success and maintain its reputation as a quality destination for golf enthusiasts.

H. Site Visit Pictures



Old, worn and outdated irrigation equipment

Aqua Turf International, Inc.



Old, worn and outdated irrigation equipment

Aqua Turf International, Inc.



Poor green block sprinkler spacing & coverage

Aqua Turf International, Inc.



Poor block system fairway & tee sprinkler spacing & coverage

Aqua Turf International, Inc.



Lack of proper irrigation



Continuous irrigation repairs



Old, outdated, unsightly commercial irrigation controllers being used on the golf course

Aqua Turf International, Inc.



Old, outdated and mismatch sprinklers



Poor Spacing, Pattern, Pressure

THE END

Aqua Turf International, Inc.



Golf Course Advisory Board

agenda item 5.c

item type

Non-Action Items

meeting date

July 13, 2026

prepared by**approved by****subject**

Driving Range Bays

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. QUOTE 3.0 Winter Park Pines Golf Club - 10 Bays - PROPOSAL w_ ADD-ONS 25_25_50



COVER THE TEES

1713 Kennedy Pt. Suite 1001

Oviedo, FL

32765

Proposal

Job:	Winter Park Pines Golf Club - 10 Bays
Address:	950 S Ranger Blvd., Winter Park, FL 32792
Date:	6/1/2026
Attn:	Gregg Pascale
Phone:	407-599-3418
Email:	gpascale@cityofwinterpark.org
Job ID:	WPPGC3060126

Mr. Pascale,

As promised, attached is a quote for your review. Please review and let us know if you have any questions. Otherwise, we will follow up shortly to schedule a meeting to review in more detail and answer any questions you may have.

We appreciate the opportunity to bid on your project.

Sincerely,
Patrick Cherry
215-206-9992
pcherry@coverthetees.com

Scope Details

Aluminum Driving Range Cover

We will provide a pre-engineered hitting bay cover system per engineered drawings.

- 3" standing seam panels - White
- Uprights Columns minimum of 6x6 aluminum - Front Column set 8ft back from the front of structure - White
- Rolled gutter for rear if necessary - White
- Our cold weather system has SIP panel walls in the rear and on the side to block the wind, each bay will have acrylic sliding windows for the rear of bays (Options listed below)
- Front of the structure is approximatley 12ft tall and 8ft tall in the rear with slight variances depending on site grade.
- Product will meet all necessary building codes throughout the country with a maximum wind rating of 150 mph and 40 PSF snow load

Bid Pricing and Options:

Golf Hitting Bay Cover System

10 BAYS

<u>CTT-OA</u>	100 X 25	Aluminum Standard Open Air Hitting Bay Cover (Can not put on enclosure options)	2500 SF
Total Price for Standard "Open Air Only" Bay Cover			\$97,500.00

Additional Options:

Hitting Bay Dividers (4ft)

11 Dividers @ \$425.00 \$4,675.00

EXLED Range Lighting Fixtures

(To be mounted and wired by others)

4 Fixtures @ \$1,950.00 \$7,800.00

EXLED Wireless Controller (optional)

one controller allows you to adjust all EXLED lights

1 Fixtures @ \$1,950.00 \$1,950.00

LED lights in each bay - 3 per bay - mounted

(wired by others)

30 LEDs @ \$195.00 \$5,850.00

Monitor post - set behind first column

Recommended for larger monitors

10 Post @ \$325.00 \$3,250.00

iTarget Base Level 1 Package

Includes 2 Strike Points + 5 Night Sabers

\$45,000

*** CTT Anchoring system is included in the pricing. CTT anchoring system will reduce concrete costs of project.

Services & Fees Included with Price

Canopy & Enclosure Installation	Included
Delivery of the product	Included
System Engineering (signed and sealed drawings by licensed engineer)	Included
Logistics (Travel Costs etc..)	Included
Any necessary Core drilling needed for anchors during installation	Included
Door openings where instructed by customer	NA
*Permitting (See notes below)	Not Included
Site Prep and Soil Testing	Not Included
3rd party inspections fees	Not Included
Concrete Slab By Others (no less than 6" under columns. Varies by location)	Not Included
Electrical	Not Included
Municipality Permit Fees	Not Included
Seismic Engineering	Not Included
Proposal does not include costs associated with prevailing wage requirements	

*****Permitting: Responsibilities to be taken care of by owner or contractor hired by owner. Cover the Tees will not be the General Contractor on the project. We will provide signed and sealed structural drawings by a licensed engineer with your state seal ready for permitting. Cover the Tees is not able to use any existing slabs unless they meet the specs detailed on the signed and sealed plans that will be provided. In most cases a new slab will be needed to meet engineers requirements.***

- The above scope is for aluminum golf hitting bay cover at Winter Park Pines Golf Club
- We will furnish material and labor for the proposed Aluminum Golf Hitting Bay Cover complete in accordance with specifications and engineered drawing provided and in accordance with local building codes. Additional options listed above.
- This price includes all services detailed in the scope above in the "services & fees included with price" This product can be ready for shipment within 4-6 weeks upon receipt of 50% deposit.
- Once proposal is accepted and deposit has been sent, we will provide signed and sealed engineered drawings ready for permitting.
- **By signing the proposal, you agree not to share any of our proprietary foundation information or disclose design details.**
- This proposal is good for 30 days.
- Pricing is subject to increase as this proposal is based on current market prices. However, pricing can be locked in with a 50% deposit allowing us to order your materials.*
- Pay Schedule
 - 25% - Deposit upon acceptance of the proposal
 - *25% - Deposit at time of permitting - materials ordered at this time
 - 50% - Balance due upon completion

Payment due upon receipt of invoice. Payments not received within 15 days of invoice date will incur a 3% finance charge. A 3% finance charge will be incurred each month past the due date.

ACCEPTANCE OF PROPOSAL

When you are ready to move forward, please let us know and we will provide an agreement document via DocuSign for acceptance.

Financing Available - Ask for Details



Golf Course Advisory Board

agenda item 6.a

item type

Staff Updates

meeting date

July 13, 2026

prepared by**approved by****subject**

CIP Funds

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Golf Course Advisory Board

agenda item 6.b

item type

Staff Updates

meeting date

July 13, 2026

prepared by**approved by****subject**

Course Conditions

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. WP18 Course Assessment 7 7 26
2. WP9 Course Assessment 7 10 26

WP18 Course Assessments

7/7/26

NOTES:

- Greens have recovered nicely. Only a few bare spots remain on four or five greens. Remaining spots continue to grow in but are all on perimeters of greens and do not affect playability/pin placements. (Photo 1- Hole 18) (Photo 2 – Hole 17 before) (Photo 3 – Hole 17 current)
- Irrigation repairs continue to divide labor time for staff. New issues pop up daily and quick “band-aid” repairs are prominent and unsightly...but necessary... to keep water on course. Hole #10 affected. Also having issues with heads being stuck on...where heads keep running when scheduled to go off. Looks bad as course is soaked and carts aren’t allowed out, but water is still being sprayed on course due to heads stuck in the on position.
- Jon is currently spraying for weed control but it will be a long process as over the years, weeds are everywhere (Photo 8). They become more prominent when heavy rains occur as we cannot mow them down which helps mask them. He has also spot sprayed for mole crickets. Have other product from WP9 for a full course mole cricket application to be sprayed this week or next based upon weather conditions.



(1)



(2)



(3)

(Photo 4) Hole 6 Before



(4)

(Photo 5) Hole 6 Current



(5)



(6)

(Photo 6) Hole 4 Before



(7)

(Photo 7) Hole 4 Current

Weed Control Issues

Weeds around greens and tees become more visible with rain that prevents mowing:



(8)

Green perimeter photos of remaining spots:

Hole 16



(9)

Hole 12



(10)

Hole 2



(11)

Hole 14



(12)

A few areas that can be improved:

- Spoke with Jon about cleaning up around tee markers



(13)



(14)

Irrigation issues on Hole #10 brown color (PHOTO 15), Hole #11 (PHOTO 16)



(15)



(16)

Growing in 419 sod on Hole 15 (PHOTOS 17 & 18 Before and CURRENT) Irrigation not completely covering areas so manual watering taking place (rain has helped)



(17)



(18)



Bunker edges looking clean (19)

PLAN for next few weeks/months:

- Continue to attack weeds on course (boom spray and spot spray)
- Keep rough cut down to not show as much weed activity
- Continue Green maintenance Verticutting and topdressing to speed up greens
Approximate 8.5 to 9 on stimp currently.

Getting quotes to be approved for aerification tynes/sand for closure next Monday, July 20

OVERALL IMPRESSION:

Very pleased with overall conditions on the course. Many compliments on improvement from Members and Guests. We are clearly moving in the right direction. Spoke with Jon about focusing on little things (like tee marker maintenance) around tees and greens especially.

WP9 Course Assessments

7/10/26

NOTES:

- Greens are growing in according to plan. Greens soil report and nematode report showed mostly acceptable levels of nematodes in all 9 greens. Have sent reports to USGA for review/recommendations. Will coordinate with DTE on plan(s) to spray/treat.
 - DTE did first topdressing this week with height of cut at .125 inches. Progress also made in recent weeks...after DTE meeting on 6/29 and consultation with USGA Consultant and Ed Batcheller, DTE has started to address concerns including:
 - Weed control
 - Bunker Edging
 - TriPlex vs. Walk mowing (although still using triplex on final lap. Will discuss again with Ryan/DTE)
 - PHOTO 1 from 6/28 (#9) Photo 2 Current (#9)
-



(1)



(2)

Photo 3 5/28/26 Hole #8



(3)

Photo 4 Current Hole #8



(4)

Photo 5 5/28/26 Putting Green



(5)

Photo 6 Current Putting Green



(6)

- Bunker edges fly-mowed to look tight and clean. **Ryan is aware of weeds around perimeters (greenside bunkers)...** will treat those weeds after greens are completely established as **watering greens will dilute treatment right now.**
- Bunker “runners” are being allowed to grow right now. Ryan spoke with Keith about how they should grow in and how they should be maintained and, although currently unsightly, it is part of the grow in process.
- Some mole cricket activity has been popping up. Curfew treatment on Monday will take care of main areas around tees and fairways. Other areas like near path on hole #8 (Photo 8) will be treated separately by Ryan.



(8)

- A wall to wall fertilizer will be put down after curfew application next week. (15-0-15).
- Discussed edges of paths (PHOTO 9) and roadways as high visibility/first impression areas. Ryan will be getting crew more comfortable with mowing these areas and giving them more attention.



(9)

- “Tree Suckers” continue to pop up. (Photo 10). Landscaping usually cuts them down...Ryan will also treat them with a chemical to kill them. But would like to have the punch list provided to landscaping about their scope of work on closure days to:
 - Assure they complete all work
 - Communicate to Ryan about what they will be doing and what they won’t (Ryan will still spray things he sees popping up but knowing what landscaping will be doing will help him to work together as a team)



(10)

DTE has taken what we discussed in our first meeting and really addressed our concerns. We discussed our main concerns (weeds, greens grow in) and feel comfortable with the plan moving forward which is a lot of topdressing and verticutting. Ryan feels that an early August opening is on track. Practice Putting green remains the green that is lagging behind...along with hole number 4 green so he will be giving those the attention they need over the next few weeks. But even the putting green looks much better than a few weeks ago. (PHOTO 11)



(11)