

PSA HORTICULTURAL

Landscape Consulting & Contract Management
"Protecting Your Landscape Investment"

925 Florida Avenue, Suite D
Palm Harbor, Florida 34683

DRAINAGE SYSTEM MAINTENANCE INSPECTION REPORT

Date:	May 28, 2020	Inspection # 5
Client:	EAST LAKE WOODLANDS COMMUNITY ASSOCIATION	
Attended by:	Drainage Committee-Jack Picker, Jeff Fosbrook AMI-Cary Williams Manager- Debi Hudrlik PSA-Tom Picciano	

SCOPE

This was the fifth of the regularly scheduled maintenance inspections of the stormwater drainage system. During these reviews we inspect for issues that may adversely affect the flow of drainage water through the system. Items such as debris or silt build up in culverts, erosion, excessive vegetation, blocked drainage grates, and any pond control structures that may need maintenance shall be noted and prices for those corrective actions shall be provided.

FOR AMI RECYCLING:

- 1) Woodlands Parkway at Cypress Estates- clear vegetation and silt out of mouth of culverts. **\$1,200.00**



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 2) Woodlands Parkway- there are several locations where concrete flumes need to be constructed. They are marked with orange paint. Price per flume. \$ 2,695.00



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

- 3) Woodlands Parkway inbound between Cypress Estates and Woodlake Wynde- clear vegetation and silt away from headwall. \$ 1,125.00



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

- 4) Woodlands Parkway outbound east of Woodland Estates at golf course #1 south- clear silt and vegetation away from headwall and out of ditch 100' feet in each direction. \$ 2,000.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 5) Woodlands Parkway at office building- clear silt away from pipe that drains the parking lot. \$ 450.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 6) Corner of Woodlands Parkway at East Lake Woodlands Parkway- clear silt from end of concrete flume. \$ 450.00



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

- 7) Corner of Woodlands Parkway at East Lake Woodlands Parkway- eliminate the grass flume by re-grading.
\$ 950.00



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

- 8) East Lake Woodlands Parkway inbound across from office building driveway- clear vegetation and silt in area where multiple pipes empty. \$ 2,300.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 9) East Lake Woodlands Parkway inbound along golf course- there are several locations where concrete flumes need to be constructed. They are marked with orange paint. There is also a larger eroded area which will need a flume as well as rip-rap and sod.

Price for standard flume \$ 2,695.00

Price for larger eroded area with flume \$ 5,600.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 10) Woodlands Boulevard inbound and outbound west of Deerpath by "Caution Speed Wave Ahead" sign- clear vegetation and silt away from headwalls. \$ 5,800.00 * Needs to be Jetted - per AMI



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

- 11) Woodlands Boulevard Bridge at Isleworth- clean silt from creek and install rip rap by exposed pipe to prevent erosion and jet drains in ditch. \$3,500.00 Jetting and silt removal COMPLETED. Install rip rap \$1,250.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

12) Woodlands Boulevard at Stonebriar- jet drains in ditch \$ 3,200.00 Provide price to replaced rusted grates. \$998.00



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

13) Woodlands Boulevard at “Lake Aberdeen”- dig channel to newly installed drain box. \$ TBD



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

14) Woodlands Boulevard at Cross Creek- repair multiple pipe separations along pipe route. **\$14,927.25 Per Section**

*Section consists of 20'



Notes: Multiple dig sites, repairs to existing stormwater pipe will not exceed \$14,927.25 per section. Depending upon repair, new installation of pipe may not be needed which would lower costs depending on repair method used (i.e. poured concrete pipe collar or CMP repair band).

Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

15) East Lake Road north of Woodlands Parkway- clear vegetation from channel EL between East Lake Road and Woodlands Estates. **\$24,672.00**



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

PROPOSALS NEEDED:

EAST LAKE WOODLANDS COMMUNITY ASSOCIATION

16) Cypress Estates at Holly Hill- clear debris in front of headwall on entrance and exit side. \$ 1,375.00



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

FOR EAST LAKE WATER:

9) Nursery Rd-fabricate grate for wet well. Proposal requested by East Lake Water. \$2400.00 NOT COMPLETED



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

FOR CLUB:

10) #1 North tee bridge to driving range at power easement- remove vegetation **\$18,500.00 NOT COMPLETED**



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

NEW 11) Maintenance path between #4 and #15 north. \$ _____



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

12) Moccasin Creek along Tampa Rd-clear vegetation on both side of creek behind #15 south tee box. **\$22,850.00**
NOT COMPLETED



Approved:

Initial _____ **Date** _____

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Initial _____ **Date** _____

13) Moccasin Creek along Tampa Road at #14 south green-needs to be bush hogged. **\$650.00 NOT COMPLETED**



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

14) #15 north/green/#16 north tee-assumed failure of drainage pipes underneath cart path structure. \$_____



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

15) General recommendation- the accumulated debris should be removed from control structures. Remove dead palm fronds from creeks on the golf courses.

16) East side of #4 north green-tree lying across the creek. **\$275.00 NOT COMPLETED**



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

17) Channel on # 3 north fairway-repair creek bank, dead Bermudagrass. The Association previously seeded the bank and installed geo-textile fabric to hasten the seeding. Erosion will now cause sediment to spill into the creek until the bank is again stabilized. **\$9,500.00 NOT COMPLETED**

October 2018



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

18) #1 north bridge to driving range at power easement-remove vegetation. **\$18,500.00 NOT COMPLETED**



Approved:

Initial _____ Date _____

Initial _____ Date _____

Initial _____ Date _____

19) #1 north bridge to fairway-repair weir. **\$6,800.00 NOT COMPLETED**



Approved:

Initial _____ **Date** _____

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Initial _____ **Date** _____

20a) #15' south tee box from bridge

20b) #15' south tee box from bridge

Remove low hanging tree limbs **\$2,590.00** for both pictures **NOT COMPLETED**

October 2018

October 2018



Approved:

Initial _____ **Date** _____

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Initial _____ **Date** _____

21) Bridge at #4 north green-repair leaning wall and hole forming along carpath. The wall behind the rip-rap is leaning, leaving a void between the two walls. Rainfall can get between the wall and rip-rap causing erosion. The hole along the edge of the carpath is weakening the structural integrity of the path. **\$42,000.00 NOT COMPLETED**



Approved:

Initial _____ **Date** _____

Initial _____ **Date** _____

Initial _____ **Date** _____

FOR AQUATIC COMPANY:

22) Channel EL- aquatic weed control. \$ _____



COST SUMMARY

ELWCA Drainage System Maintenance	\$ _____
Club Drainage System Projects	\$ _____
East Lake Water System Projects	\$ _____
Aquatic Company System Project	\$ _____

ITEMS TO REMEMBER:

Repair of the drainage box on South Woodlands Drive.

Repair of joints and alternatively, replacement of 36" pipe through Cluster Four.

CLUBCORP RESPONSIBILITY- ITEMS TO REMEMBER:

Cluster 5- Phase 1 Control structure, grate, baffle. \$9,395.00 per estimate #323 dated 3/7/2019- placed on hold. Cost could be more if control structure needs repairing.

Cluster 5- Phase 2- Exploratory Excavation for Possible Pipe Collar. \$7,900.00 per estimate #323 dated 3/7/2019- placed on hold. Repair costs could be more based on findings.

Weir on pond #55- \$5,575.00 per estimate dated 1/15/2019.

SUMMARY

There were no large-scale repairs noted during this inspection. Most of the corrective actions involved the removal of silt and vegetation to improve water flow. In addition, several locations were identified for the installation of concrete flumes to quickly remove water from arterial roads and to help preserve the integrity of the asphalt. The concrete flumes would not require the same degree of maintenance as the grass flumes currently do.

Respectfully submitted,

Tom Picciano

PSA Horticultural