

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 1 (Pre-Con Meeting)
Meeting Date – 5-18-11

Record of Attendees: See Attached Sign-in Sheet

Project Team:

Owner: Anura Karuna-Muni, LCBOCC

Owner Site Representative: Lee Coffee, Lee County Parks & Recreation

Engineer: Lee Flynn, AIM Engineering & Surveying, Inc.

Contractor: D.N. Higgins

Executive: Brandy Bartolone

Project Manager: Dereck Moorley

Superintendent: Ken Fritz

Project Status:

Structures No. 3 & 5:

- Contractor is fine with access;
- LP Staff wants advanced notification before work on Structure 3 so they can close the Summerlin Park entrance;

Structures No. 1 & 4:

- Discussed access through Reflection Lakes. After lengthy discussion, it was decided that this was not the best route due to residential impacts;
- General intent is to avoid the train loading area (circle with pavers);
- Discussed using the same perimeter access that was used in the pilot project. The Contractor requested to construct an access road across the cat tail low-area to avoid the sharp corner with Gumbo Limbo trees. This was considered a preferred access option;
- Interaction and logistics with the train ride facility was discussed with a Train Representative. It was agreed that the Contractor would give advanced notification to the Train group when a crossing or other interruption would occur.

Spoil Islands:

- The Sub-Contractor performing the earthwork was contacted by speaker phone. He reiterated his plan to make a temporary access path to the spoil islands using silt fence to block off pedestrian traffic. This access path would be installed east of the sprinkler park and the adjacent pavilion.

Open Discussion / Miscellaneous

- Lakes Park Staff informed the team of summer camp that would begin around June 20th. The Camp would run from about 8am to 6pm daily. The camp would mostly be held in areas between the amphitheater and the causeway. The Contractor will have to avoid these areas and coordinate ingress/egress as needed with Park Staff.

- The Team drove to look at the location for the proposed access road, as well as where the access path would have to cross the train ride tracks. The train track crossing location was relocated slightly to avoid the existing concrete pad/crossing. A few trees will have to be relocated for the new track crossing.

Submittals/RFI's

Submittals:

The Contractor has provided submittals for the concrete mix, inlet boxes, pipe, and turbidity barriers.

RFI's:

No Open RFI's

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 2 (Pre-Construction Meeting)
Meeting Date – 5-27-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Bob Reppenning, LCP&R
Lee Coffee, LCP&R
Lee Flynn, AIM Engineering & Surveying, Inc.
D.N. Higgins – Brandy Bartolone, Dereck Moorley, Ken Fritz

Pre-Construction Agenda – Provided by Lee County and reviewed by Attendees. Items of discussion and additional consideration are as follows:

- Progress meetings will be held on-site every-other Thursday at 2pm, starting today (next regular progress meeting will be held 6/9/11);
- The Kickoff meeting with SFWMD Representatives is scheduled for 6/1/11;
- Engineer will check if a notice of commencement is required for the USACOE;
- Under “Work Sequence”, the team reviewed the Contractor’s progress report and two-week look ahead;

Project Status:

Structure No. 1:

- The Contractor has constructed the path to improve access to CS-1 and CS-4.
- Contractor has constructed temporary walkway;
- Rebar and forms have been installed for concrete cap additions;
- Concrete is being poured today;

Structure No. 3:

- Contractor anticipates constructing temporary walkway 5/27;
- Concrete pour for cap additions is anticipated for 6/1.

Spoil Islands:

- The Sub-Contractor performing the earthwork will be on-site next week to finalize his plan for access & construction;

Open Discussion / Miscellaneous

- Work is currently ahead of schedule.
- Status of carp gates will be verified. They currently catch debris and impede flow through the structure, so removal would be preferred.
- Before work proceeds on the spoil island modifications, the Contractor shall provide a plan showing access, staging, storage, and security measures for this area, as it is in a main park area.
- The Contractor was reminded that there is a potential for park goers to get hurt if they are allowed access to stored equipment and materials. Therefore, the

Contractor shall secure equipment and materials stored during and after working hours.

- The Contractor is expected to utilize appropriate fencing and signage to prevent public access to the work areas. The County is able to help with additional signage if specific requests are made by the Contractor.
- The need for dust control will be based on construction methods.

Submittals/RFI's

Submittals:

Previous submittals have been returned to the Contractor.

The Contractor has provided a new submittal for the hand railing.

RFI's:

No Open RFI's

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 3 (Construction Progress Meeting)
Meeting Date: 6-9-11

Record of Attendees:

Steve Farah, LCBOCC
J.D. Langford, AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley & Jimmy Nelson (Superintendent)
Derek **** - Earth Tech (Superintendent)

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms were still on the structure, but the Contractor said that they would be removed in the next few days. Contractor is waiting for slide gates to arrive, to mount on face of structure.

Structure No. 4:

- CS-4 has been staked for construction by a survey crew. A DN Higgins, Inc. Underground crew will be mobilizing next week to the site. Old structure will be removed first.

Structure No. 5:

- CS-5 has been staked for construction by a survey crew. A DN Higgins, Inc. Underground crew will be mobilizing next week to the site. Old structure will be removed first.

Spoil Islands:

- The Sub-Contractor performing the earthwork will mobilize at the site next week.

Open Discussion on Topics from Last Progress Meeting:

- Work is currently ahead of schedule.
- Status of carp gates was verified. AIM brought an email to the meeting from John Cassani, stating that it was up to Parks staff discretion as to whether the lake would be stocked with grass carp in the future. A hard copy of this email was given to Steve Farah, to bring to Lee County staff. The email was also sent electronically to Lee County Staff.
- The Contractor provided a plan showing access, staging, storage, and security measures for the spoil island area. The plan proposes appropriate fencing and signage.

- It was determined by AIM that US Army Corps of Engineers does not require a construction commencement application. They do however require a self-certification to be filed upon completion of the construction.
- The Contractor is expected to utilize appropriate fencing and signage to prevent public access to the work areas. The County is able to help with additional signage if specific requests are made by the Contractor.
- DN Higgins, Inc. stated that Earth Tech would be responsible for landscape relocation at structures CS-4 & CS-5. DN Higgins, Inc. stated that they would coordinate a meeting with Park staff next week to discuss relocation plans.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 4 (Construction Progress Meeting)
Meeting Date: 6-23-11

Record of Attendees:

Anura Karuna-Muni and Steve Farah, LCBOCC
Lee Coffee, Lakes Park Staff (LCP&R)
Lee Flynn, AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Frank Reynolds - Earth Tech

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure.

Structure No. 4:

- The old structure was removed, and the new pipe, inlet box, and grate have been installed. Final grading, installation of rip rap, and removal of downstream cat tails are remaining.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. Staking for the littoral & ditch areas will commence tomorrow, and the grading/planting work will begin next week.

Spoil Islands:

- The Sub-Contractor performing the earthwork has mobilized equipment on the spoil islands. Construction fencing has been installed for security. Clearing and grading work will proceed next week.

Open Discussion on Topics from Last Progress Meeting:

- The Contractor acknowledged fixing the asphalt path around CS-5 after the heavy equipment work is complete.
- The Superintendent will be coordinating directly with Lee Coffee before existing landscaping is relocated.
- It was decided by the team to push future progress meetings back to 3pm.
- The Team discussed expanding the footprint of the littoral islands for improved maintenance access, and because additional plants will be used due to the 3:1 conversion ratio (the Contractor will be using bare root). This should create a larger littoral bench area.

- The Contractor asked about filling in the “gap” between two of the islands. However, the point was made that water circulation should be maintained in this gap between the islands. Therefore, it was decided that the gap could be filled/graded to create additional littoral area, which would allow for continued water circulation in this area. This would also improve future hand maintenance access.
- The Contractor has been given a ship date of late August for the slide gates.
- The excavation and grading at CS-5 and the spoil islands will begin next week.
- Future gate operation was discussed for the new structures. The operation should be to close the gates on CS-5 and CS-3 during extreme high tide events to prevent backflow into the West Lake.

Discussion Item for next Progress Meeting:

- Use of culvert between spoil islands in “gap” to increase circulation.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 5 (Construction Progress Meeting)
Meeting Date: 7-7-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Bob Repenning, LCP&R
Mary Beth Krause, Lakes Park Staff (LCP&R)
Lee Flynn, AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Frank Reynolds - Earth Tech

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 4:

- The old structure was removed, and the new pipe, inlet box, and grate have been installed. Final grading, installation of rip rap, and removal of downstream cat tails are remaining.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. Grading for the littoral & ditch areas is underway, and should be complete by the end of next week.

Spoil Islands:

- The Sub-Contractor performing the earthwork has mobilized equipment on the spoil islands and is working on vegetation removal and grading. Construction fencing has been installed for security. Clearing and grading work should be complete by the end of next week.

Open Discussion on Topics from Last Progress Meeting:

- The Contractor acknowledged fixing the asphalt path and adjacent ruts around CS-5 after the heavy equipment work is complete. Earth Tech will also be installing 57 stone on the pathway leading out of the spoil islands to minimize rutting. The area will also be restored upon completion of the work.
- Safety measures are in place for the work sites.
- The land connection to the spoil islands will be removed as the project is complete to discourage public access out onto the spoil islands. Also, the

proposed grading will keep deeper “channels” between the islands for water circulation.

- The Contractor has been notified of existing, underground irrigation and electric lines in the work area(s). Lee Coffee can provide locate assistance if required.
- The Contractor is planning to have major grading activities complete by next Friday.
- The questions relating to plantings (submitted by the Planting Sub Contractor) were discussed and resolved (see follow up emails from Bob Repenning and Lee Coffee).
- The intent of the proposed planting submittal is to maximize the diversity of species used (per the list in the approved permit).
- It was decided that the old carp gates will be disposed of and not re-installed, as they are not needed for fish and they impede flow by capturing debris and vegetation.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 6 (Construction Progress Meeting)
Meeting Date: 7-21-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Mary Beth Krause and Lee Coffee, Lakes Park Staff (LCP&R)
Lee Flynn, AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Earth Tech - Frank Reynolds and Chris Gehring

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 4:

- The old structure was removed, and the new pipe, inlet box, and grate have been installed. Final grading, installation of trash baffle & rip rap, and removal of downstream cat tails are remaining.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. Grading for the littoral & ditch areas is complete, and the surveyor is collecting cross-sections to verify elevations before planting. Planting work should begin next week.

Spoil Islands:

- Clearing and grading work is complete, and the surveyor is collecting cross-sections to verify elevations before planting. Planting work should begin in the next two weeks.

Open Discussion on Topics from Last Progress Meeting:

- The Contractor is checking grades on the spoil islands and CS-5 (with Survey) to verify proper elevations before plantings are installed.
- Planting work should begin next week, with the relocated landscaping at CS-5 being replaced first. Park managers will mark installation locations for the new replacement plants.
- There have been no safety problems since the last progress meeting.
- The hand rail sub contractor is meeting with park staff today to locate the hand rails at CS-5.

- The team discussed lowering the west lake water elevation by opening the slide gates in CS-3. AIM will evaluate this suggestion further.
- The remainders of the carp gates were removed from CS-1 and CS-3.
- The Contractor will be installing the trash baffles for CS-4 and CS-5 next week.
- The Contractor will prepare a change order to mechanically remove cattails around the beach area. This will be provided to County Staff for consideration.
- The Contractor submitted pay request No. 1.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 7 (Construction Progress Meeting)
Meeting Date: 8-4-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Mary Beth Krause, Lakes Park Staff (LCP&R)
Lee Flynn & J.D. Langford, AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Earth Tech - Frank Reynolds
Earth Tech Environmental – Donn Brown

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting.

Structure No. 4:

- The new pipe, inlet box, grate (including trash baffle), and the majority of the upstream rip-rap have been installed. Final grading, completion of removal of downstream cat tails, and installation of remaining rip-rap are remaining.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. Grading for the littoral & ditch areas is complete. The surveyor collected cross-sections to verify elevations before planting. As-Built Survey for CS-5 have been provided and accepted. Earth Tech Environmental verified that they would provide the As-Built survey to the District, prior to planting. All plants that were within the construction zone of proposed structure CS-5 have been relocated.

Spoil Islands:

- Clearing and grading work is complete. The surveyor has collected cross-sections to verify elevations & littoral shelf area prior to planting. This said As-Built survey was sent to AIM for review. It was discovered that there was a discrepancy between the As-Built and Design areas of the littoral shelves. AIM will provide a modified littoral bench delineation, however, the total littoral As-Built area shall be equivalent to the designed littoral area. Additional filling and grading of the spoil islands and submission of the updated As-Built Survey shall be completed prior to planting. Anticipated planting date for spoil island littoral zones was determined to be around August 22nd, 2011.

Open Discussion on Topics from Last Progress Meeting:

- The Contractor is checking grades on the spoil islands and CS-5 (with Survey) after additional grading to verify proper elevations before plantings are installed.
- There have been no safety problems since the last progress meeting.
- The team discussed lowering the west lake water elevation by opening the slide gates in CS-3. This task will be further coordinated when the grading is complete and the project is ready for planting.
- The Contractor provided a change order to mechanically remove cattails around the beach area. This will be reviewed by County Staff for consideration.

Observations from Project Walk-Through After meeting;

- Tracked excavator was parked on-top of the downstream end of the CS-4 pipe as it was removing cat tails. The pipe should be checked for damage after the excavator has been removed.
- There appears to be some wash-out (erosion) of the sod and dirt in the vicinity of the CS-5 downstream end wall. This should be repaired before final walk-through.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 8 (Construction Progress Meeting)
Meeting Date: 8-18-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Lee Coffee & Bob Repenning, Lakes Park Staff (LCP&R)
Lee Flynn - AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Earth Tech - Frank Reynolds

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor is waiting for slide gates to arrive, to mount on face of structure. The status is unchanged from last progress meeting. Slide Gates are supposed to be shipped August 26th, 2011.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. The status is unchanged from last progress meeting. Slide Gates are supposed to be shipped August 26th, 2011. Underwater gates on CS-3 will be opened (tested) over the weekend to try and reduce water levels in the west lake for littoral planting. Lee County Staff stated that they would check the salinity downstream of CS-3 compared to the salinity levels in the west lake on Friday.

Structure No. 4:

- The new pipe, inlet box, grate (including trash baffle), and all of the upstream & downstream rip-rap have been installed. The downstream CS-4 outlet pipe was checked to ensure that there was no crushing to the pipe during construction. It was determined that there was no damage. It was noticed that there was some erosion on the downstream embankment of CS-4. Contractor to correct through rip-rap or sod.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. Grading for the littoral & ditch areas is complete. The surveyor collected cross-sections to verify elevations before planting. As-Built Survey for CS-5 have been provided and accepted. Earth Tech Environmental verified that they would provide the As-Built survey to the District, prior to planting. All plants that were within the construction zone of proposed structure CS-5 have been relocated. Slide Gates are supposed to be shipped August 26th, 2011. Sod should now be stabilized on the downstream end of CS-5.

Spoil Islands:

- Additional filling and grading of the spoil islands was required for the spoil islands to meet the proposed littoral bench areas. Contractor requested that the equivalent area of the littoral shelf be achieved closer to shore. The total area of the littoral shelf is to remain as proposed. Contractor stated that the grading will be complete early next week for the spoil islands. Contractor sent a copy of the revised littoral footprint and corresponding emails to SFWMD's Ricardo Valera to try and expedite the As-Built survey approval from SFWMD prior to planting. Anticipated planting date will be determined once approval for the As-Built survey has been approved by SFWMD.

Open Discussion on Topics from Last Progress Meeting:

- Park Staff requested that smaller gravel will be needed on the north end of the constructed maintenance road to allow for bike traffic.
- It was noticed at the last meeting, after reviewing the contractor's bathymetric survey, that the "As-Built" Littoral Shelf Areas for the spoil islands were considerably smaller than the proposed design littoral shelf area. Lee County staff expressed concern over this said area discrepancy as the proposed littoral bench area will be applied for as a water quality credit through the TMDL program, by removing nutrients from the surface water of Lakes Park, prior to discharging downstream.
- There have been no safety problems since the last progress meeting.
- The team discussed lowering the west lake water elevation by opening the slide gates in CS-3. This task will be further coordinated when the grading is complete and the project is ready for planting.
- It has been noticed that CS-4 has not been flowing when CS-1 has flowed. These two structures are intended to discharge water at the same permitted elevation of 4 ft-NGVD. This will be evaluated by the Contractor and Engineer to evaluate the as-built condition and solution.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 9 (Construction Progress Meeting)
Meeting Date: 9-1-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Lee Coffee & Bob Repenning, Lakes Park Staff (LCP&R)
Lee Flynn - AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Earth Tech - Frank Reynolds

Project Status:

Structure No. 1:

- The Contractor has poured the caps at structure CS-1. Forms had been removed. Contractor has received slide gates from manufacturer, and is planning to install slide gates by the end of next week.

Structure No. 3:

- The Contractor has poured the caps at structure CS-3. Forms have been removed. The Contractor has received slide gates from the manufacturer, and is currently installing the slide gates on the structure.

Structure No. 4:

- The new pipe, inlet box, grate (including trash baffle), and all of the upstream & downstream rip-rap have been installed. The Contractor and Engineer will determine how much the grate (top) elevation will be lowered to match CS-1 (elevation 4). It was noticed that there was some erosion on the downstream embankment of CS-4. Contractor to correct through rip-rap or sod.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. The slide gate has been delivered and will be installed next week. Grading for the littoral & ditch areas is complete, and the Contractor has submitted final grading and plantings to the SFWMD for approval. Planting downstream of CS-5 are planned to be installed before the next progress meeting. The upstream plantings will be discussed at next progress meeting as the lake water level is monitored.

Spoil Islands:

- Additional filling and grading of the spoil islands was required for the spoil islands to meet the proposed littoral bench areas. Contractor sent a copy of the revised littoral footprint and plantings to SFWMD for approval. Anticipated planting date will be determined at next progress meeting as the lake water level is monitored.

Open Discussion on Topics from Last Progress Meeting:

- Park Staff requested that smaller gravel will be needed on the north end of the constructed maintenance road to allow for bike traffic (still needs to be addressed).
- The recent lake draw-down results (using the CS-3 existing gates) was discussed. Some relief of the west lake water levels is possible, but the outfall is heavily influenced by the capacity of the downstream ditch. Also, heavy rains result in increased runoff entering Lakes Park from the surrounding watershed.
- There have been no safety problems since the last progress meeting.
- The Team discussed exempting the Spoil Island and CS-5 upstream plantings from substantial completion and to be included in the final completion. This would be to allow for maximum lake water level draw-down time as the rainy season subsides. The team will evaluate lake water levels and the plantings again at the next progress meeting.

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 10 (Construction Progress Meeting)
Meeting Date: 9-15-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Lee Coffee & Bob Reppenning, Lakes Park Staff (LCP&R)
Lee Flynn - AIM Engineering & Surveying, Inc.
D.N. Higgins –Dereck Moorley
Earth Tech - Frank Reynolds

Project Status:

Structure No. 1:

- The Contractor has poured installed slide gates and catwalk from manufacturer. The existing hand cranks on the installed slide gates are in conflict with the catwalk railings. Contractor has contacted slide manufacturer to provide non-conflicting hand cranks.

Structure No. 3:

- The Contractor has poured installed slide gates and catwalk from manufacturer. The existing hand cranks on the installed slide gates are in conflict with the catwalk railings. Contractor has contacted slide manufacturer to provide non-conflicting hand cranks.

Structure No. 4:

- The Grate (top) elevation was lowered to match CS-1 (elevation 4). It was noticed that there was some erosion on the downstream embankment of CS-4 before the previous progress meeting. Contractor has corrected through placing additional rip-rap.

Structure No. 5:

- The pipe, headwall, inlet box, and grate have been installed for CS-5. The slide gate has been delivered and will be installed next week. Grading for the littoral & ditch areas is complete, and the Contractor has submitted final grading and plantings to the SFWMD for approval. Planting Zones 1 & 2 downstream of CS-5 are planned to be installed by September 20th. The upstream plantings will be discussed at next progress meeting as the lake water level is monitored. Discussion of erosion around the headwall at the downstream end. Contractor suggested placing a rip-rap strip on the embankment at the downstream end. A Change Order is currently being completed by the contractor to complete the rip-rap work.

Spoil Islands:

- Additional filling and grading of the spoil islands was required for the spoil islands to meet the proposed littoral bench areas. Contractor sent a copy of the revised littoral footprint and plantings to SFWMD and received approval. Anticipated planting date will be October 10th. Contractor it will take 2 days to

plant littoral areas. Rock has been removed from area. Maintenance fence will be removed from area and sodding will be placed on disturbed areas on September 16th.

Open Discussion on Topics from Last Progress Meeting:

- Park Staff requested that smaller gravel will be needed on the north end of the constructed maintenance road to allow for bike traffic (still needs to be addressed). – **Contractor has removed gravel on maintenance road. Shell paving is expected to be installed by the contractor on September 16th.**
- The recent lake draw-down results (using the CS-3 existing gates) was discussed. Some relief of the west lake water levels is possible, but the outfall is heavily influenced by the capacity of the downstream ditch. Also, heavy rains result in increased runoff entering Lakes Park from the surrounding watershed. – **The Design Team will discuss lowering lake water levels again at the next Progress Meeting.**
- There have been no safety problems since the last progress meeting. – **Same as Previous Meeting.**
- The Team discussed exempting the Spoil Island and CS-5 upstream plantings from substantial completion and to be included in the final completion. This would be to allow for maximum lake water level draw-down time as the rainy season subsides. The team will evaluate lake water levels and the plantings again at the next progress meeting. – **It was agreed that plantings will be moved to final completion.**

END

Lakes Park Water Quality Improvements Project
Project No. 208598
Meeting Minutes – No. 11 (Substantial Completion Walk-Thru Meeting)
Meeting Date: 9-20-11

Record of Attendees:

Anura Karuna-Muni, LCBOCC
Steven Farah & Lee Coffee, Lakes Park Staff (LCP&R)
Lee Flynn - AIM Engineering & Surveying, Inc.
Dereck Moorley, D.N. Higgins
Frank Reynolds, Earth Tech

Substantial Completion Project Status:

Structure No. 1:

Structure No. 1 construction is considered complete except for the following:

- Installation of workable hand cranks for slide gates
- Seal Joint between Concrete & Catwalk

Structure No. 3:

Structure No. 3 construction is considered complete except for the following:

- Installation of workable hand cranks for slide gates
- Seal Joint between Concrete & Catwalk
- Provide angle support brackets to back of catwalk support mounting plate adjacent to the “v-notch” portion of the weir crest.
- Correct erosion areas with hand-grading and sod (north site walkway, near chain link fence post)

Structure No. 4:

Structure No. 4 construction is considered complete except for the following:

- Final grading & dressing of pathway and shoulders.

Structure No. 5:

Structure No. 4 construction is considered complete except for the following:

- Repair sod damage from heavy equipment
- Complete Plantings
- Level Trash Skimmer
- Address seal leaking at top of CS-5 slide gate

Spoil Islands:

Spoil Island construction is considered complete except for the following:

- Complete Plantings (Anticipated October 15th)
- Demobilize and clean up access/storage area – including sod

Open Discussion

- Lakes Park Staff discussed increased plant spacing around structure CS-5 to promote growth and viability for the proposed littoral trees and plants.
- Lee County Natural Resources staff discussed providing a “clear halo” around littoral plantings at Structure No. 5, by prohibiting sod growth at the base of said plants with either a mulch ring or round up. This will promote growth of the littoral plants, and reduce routine maintenance within these areas.

END