



**BOARD OF DIRECTORS MEETING**

**JULY 20, 2024**

**9:00 A.M. – ACL CLUBHOUSE, 14A157 CANYON CLUB DR, APPLE RIVER, IL 61001**

**AGENDA**

- 1.0 CALL TO ORDER – 8:00 A.M.
- 2.0 EXECUTIVE SESSION – 8:00 A.M
- 3.0 RETURN TO OPEN SESSION – 9:00 A.M.
- 4.0 PLEDGE OF ALLEGIANCE
- 5.0 TREASURER’S REPORT
- 6.0 COMMITTEE/COMMISSION REPORTS
- 7.0 GENERAL MANAGER’S REPORT
- 8.0 PRESIDENT’S REPORT
- 9.0 ANY ADDITIONS TO THE AGENDA
- 10.0 CONSENT AGENDA
  - 10.1 APPROVE/ADOPT MINUTES FROM THE JUNE 15, 2024, BOARD MEETING, COMMITTEE/COMMISSION CHANGES, AND BOARD LIAISONS
- 11.0 UNFINISHED BUSINESS
- 12.0 NEW BUSINESS
  - 12.1 FAMILY BEREAVEMENT LEAVE
  - 12.2 ATTENDANCE
  - 12.3 WINCHESTER 319 EPA GRANT
  - 12.4 HELM – SPILLWAY CONTRACT
  - 12.5 CMT – SPILLWAY ENGINEERING CHANGE ORDERS
  - 12.6 PROPANE BID ACCEPTANCE 2024 – 2025
  - 12.7 FOOD & BEVERAGE COMMISSION
- 13.0 PROPERTY OWNER COMMENTS (3 MINUTES PER MEMBER)
- 14.0 ADJOURN

**Apple Canyon Lake Property Owners Association  
Board of Directors Meeting Minutes  
June 15, 2024**

**UNAPPROVED**

**1.0 Call to Order:** Meeting called to order by President Nolan Mullen at 8:03 AM. Other Directors present: Bob Ballenger, Bill Becker, Carmel Cottrell, Brian Holt, Debra McNamee, Mark Kosco, Laura Pratt and Mike Ward. General Manager John Sabo was also present.

**2.0 Executive Session** – motion to proceed to executive session made at 8:03 AM.

**3.0 Return to Open Session** – motion to return to open session made by Bob Ballenger at 9:02 AM. Seconded by Mark Kosco, motion carried unanimously.

**4.0 Pledge of Allegiance** – after the Pledge of Allegiance, a quorum was present with the following Directors in attendance: Nolan Mullen, Bob Ballenger, Bill Becker, Carmel Cottrell, Brian Holt, Debra McNamee, Mark Kosco, Laura Pratt and Mike Ward. General Manager John Sabo was also present.

**5.0 Approve/Adopt Minutes from the May 18, 2024, and May 29, 2024 Board Meeting** - Deb McNamee motioned “to approve/adopt minutes from the May 18, 2024 and May 29, 2024 Board Meetings.” Seconded by Bill Becker, motion carried unanimously.

**6.0 Approve Amended Agenda** – Motion by Brian Holt to approve amended agenda, seconded by Carmel Cottrell. Motion carried unanimously.

**7.0 Election of Officers**

**7.1 President** - Motion by Bill Becker to nominate Nolan Mullen for President, seconded by Bob Ballenger. Motion carried unanimously.

**7.2 Vice-President** - Motion by Bob Ballenger to nominate Bill Becker for Vice-President, seconded by Carmel Cottrell. Motion carried unanimously.

**7.3 Secretary** - Motion by Carmel Cottrell to nominate Laura Pratt for Secretary, seconded by Bill Becker. Motion carried unanimously.

**7.4 Treasurer** - Motion by Deb McNamee to nominate Carmel Cottrell for Treasurer. Brian Holt motioned to nominate Mark Kosco for Treasurer. Mark Kosco declined the nomination. Bill Becker seconded the nomination of Carmel Cottrell for Treasurer. Motion carried unanimously.

**8.0 Treasurer’s Report** - will be in *The Apple Core*.

**9.0 Committee/Commission Reports**

**Maintenance** – Carmel Cottrell reported they checked out the cardboard baler, a transistor was ordered. More information at next meeting.

**Memorial Pavilion** – Carmel Cottrell reported they are still waiting for bricks to come in. They were delayed at the engraver.

**Rules & Regs** – Brian Holt reported they met and discussed several items--lake draw down, E-bikes, deer stand inspections to name a few. No changes at this point, discussion only.

**Golf** – Mark Kosco reported at the last meeting they discussed sand traps. Big Cup and Night Golf discussion.

**Board Policy** – Brian Holt reported they are meeting regularly and making progress.

**Sports Complex** – Mike Ward reported they are days away from having this completed. Final step is putting in the nets. Another phase, from their perspective, would be adding accessories, e.g. wind protectors. We’re putting together a list of those items along with costs and will present those.

**Campground** – Ron Carpenter reported they served just over 400, including volunteers, at the pancake breakfast. Netted a little over \$100. Biggest expense was with the vendor. Also had quite a

bit of milk and orange juice left over because not as many people. Last year's profit was about \$400. There are some dead trees at the Campground that Maintenance will be taking care of. There will be a few additional sites added.

**Employee Handbook** – Jody Ware reported agenda items for the 2<sup>nd</sup> reading today. Looking forward to moving on to the other items. More to come to the board for the July meeting.

**Sports Complex** - Gary Hannon reported they are tentatively planning to have a ribbon cutting ceremony next Saturday.

**Flood Mitigation** – Gary Hannon: Major decisions to be made today. New information coming in—the Winchester project grant, we have two years to use. Flood Mitigation Commission, is considering phasing the flood mitigation project. Jeff Rice: Phasing option – if we were to remove the rocks, waterfall side, this would greatly improve our spillway capacity. Talked to Helm they did not see any issues in phasing the project. Gives us some breathing room to do the project. Only 6-8” draw down this year. Cofferdam decision to be made—should be buy it ourselves?

**10.0 General Manager's Report** – Jon Sabo reported the following updates – staffing has now been almost completed (temporary and seasonal folks). Will allow us to better address the amenity upkeep. Shout out to Tyler regarding the plant life at the beach (vacuuming out dead plant life). Stratifier proposed to be at Nixon Beach – not entirely sold on this. Three phase 220 motor may be an issue. Normally you do not see a three-phase motor in water. We want to guarantee this to be 100% safe. Reminder – Owners' Facebook page is **not** the official way to communicate with us. Staff does not monitor. If an issue – please call, email or stop by. Very optimistic on the multi-year phasing options discussed - this is a cost savings. Exploring rock removal as a landowner. Could be a six-figure savings. Congratulations on the Flood Mitigation group for their efforts.

**11.0 President's Report** – will be in *The Apple Core*.

**12.0 Any Additions to the Agenda** - none

**13.0 Consent Agenda**

**13.1 Committee/Commission Changes** – Laura Pratt motioned “to approve Tim Brokl to join the Employee Handbook Ad Hoc Commission; to allow Bill Bourell to resign from the Nominating Committee; to allow Tim Brokl to join the Nominating Committee; to allow Mark Kosco to resign from the Zebra Mussel Ad Hoc Commission; to allow Paula Wiener to resign as Chair of the Conservation Commission; to allow Paula Wiener to resign from the Nominating Committee; and to allow Gary Hannon to resign from the Board Policy Ad Hoc Commission.” Seconded by Carmel Cottrell, motion carried unanimously.

**14.0 Unfinished Business**

**14.1 [Employee Handbook] 6.1 Requesting Leave, 6.3 Holidays and Holiday Pay, Charts for 6.2 Paid Time Off, and 6.3 Holidays and Holiday Pay** – 2<sup>nd</sup> Reading: Laura Pratt motioned “to approve the Employee Handbook Ad Hoc Commission request to approve Employee Handbook 6.1 Requesting Leave, 6.2 Paid Time Off, 6.3 Holidays and Holiday Pay, Charts for 6.2 Paid Time Off and 6.3 Holidays and Holiday Pay.” Seconded by Mark Kosco, motion carried unanimously.

**15.0 New Business**

**15.1 Designated Fund Purchase Request** - Mark Kosco motioned “to purchase a \$250.00 Visa prepaid gift card for Jon Sonntag + \$5.00 for the card fee (\$255.00 total) using the Deer Management Commission's designated fund.” Seconded by Bill Becker. Discussion: Brian Holt asked about why the purchase of this magnitude would come to the board. Seems like this does not need to come before the board. Can discuss at the next Board Policy Commission meeting. Motion carried unanimously.

**15.2 Recommendation for Spillway Project** - Brian Holt motioned “to approve the Flood Mitigation Commission's recommendations: 1) moving forward with the project right now; 2) opting for the 30-inch drawdown to minimize logistical issues with docks and ramps; 3) potentially

phasing the project over two years if finances are challenging and for other reasons as indicated in attached document. Understand staging the project over two years may result in additional costs in labor and material.” Seconded by Laura Pratt. Discussion: Mike Ward - If the lake is the most valuable asset – then the dam is even more valuable than the lake. The dam is why we have a lake. My estimate is our community is probably worth about \$750 million. If you add up homes, land, lake, golf course, etc. The dam is protecting this \$750 million asset. Investment we are making to protect this. It’s about making sure this never gets broken. Less than a \$1000 per property owner. Protecting the community we live in, that’s the issue. Laura Pratt - As dam owners we have a responsibility to the community downstream from us. Loss of life downstream would be our legacy here if we ignore the problem. Cannot put a price on life, we have an obligation. Nolan Mullen – this motion is a commitment to move forward with the project, not the funding. Motion carried unanimously.

**15.3 Zebra Mussel Ad Hoc Commission Recommendations** - Deb McNamee motioned “to use our current equipment, there are additional items ACL needs to purchase. With this additional equipment, ACL can monitor for hot spot areas, be able to predict spawn events, and monitor the success of treatments. ACL currently owns a polarizing microscope, which is useless without additional equipment. The Ad Hoc Commission will develop procedures and training to volunteers/ACL staff. Data collected can be reported to property owners. The cost of additional equipment is not to exceed \$2000.” Seconded by Carmel Cottrell. Discussion: Brian Holt – idea of having lake temperature information added would be good information to have. Gary Hannon – there is a group (Water Monitoring sub-commission) that goes out every two weeks and they do report numbers. That data goes to Joe Rush and Conservation Commission. Motion carried unanimously.

**15.4 ACLPOA Employee Benefits Renewal** – Laura Pratt motioned “to approve the 2.99% increase from Blue Cross; dental optical was worked down to a 4% increase with Principal.” Seconded by Brian Holt. Discussion: Brian Holt - thank you for the work to save money and negotiate the increase. Do the employees like these plans? John Sabo – initial outreach, we did ask the employees that question. What is good, what is bad, etc. They love Blue Cross, love the PPO. If approved, this would improve morale. Motion carried with Bob Ballenger not present.

**15.5 2023 Audit Report** – Deb McNamee motioned “to approve the 2023 Audit Report.” Seconded by Mark Kosco. Discussion: Brian Holt - Should this be available for review prior? For next year, we need to see this report before the annual meeting. Gives us time for questions, etc. Need time for discussion. John Sabo – part of this was recreating the financials that previous management did not do. Typical cycle, this would be done before the annual meeting. Steve Borst, Financial Manager– wondering why we are approving the audit. At the annual meeting last week, you heard the opinion from the auditors. Independently reviewed – gave a copy to the Board of Directors. Deb McNamee – Should be to accept this rather than approve. John Sabo – will correct moving forward. Ron Carpenter - tough to get ahead of time, a lot of times comes before the annual meeting. Steve Borst – you are getting monthly financials – would feel less blindsided than just getting the audit. Can’t run a business without knowing where you stand financially. Our numbers that we gave the auditors were solid. Motion to accept the 2023 Audit Report carried unanimously.

### **16.0 Property Owner Comments**

Mary Hannon, 8A239 – Thank you to whoever that paved the path from hole 8 to 9 – appreciate that. They also filled in a hole coming down from hole 8, but needs to be filled in better. Gravel in the middle of the path is unsafe.

Jeff Rice 8-152 – Thank you for the vote earlier. Also, currently Vice-chair of Golf and of Trails. I have the good fortune of working with Ed and Julie – two great employees doing a wonderful job. Don’t



think any of us grasp how much it takes to maintain this property. We need to realize that we have a great group of employees.

Steve Davis, 11A193 – Thank the commissions for the hard work on zebra mussels, spillway, watershed. Other side of the dam – south side of the dam – brush, bushes, trees. Certainly can put a person on this to kill the bushes and trees, etc. Very important. Laura Pratt: It is very important. Growth needs to be removed and prevented from growing to help maintain integrity of the dam.

Jody Ware, 12A134 – Value of the dam – If Mike could possibly write up his notes to be placed in *The Apple Core*. This is the week to submit the letters. We have to reframe this – too focused on the money. Every time we put off a project – cost goes up substantially.

Therese Nelson, 8-152 – budget is a big deal for all of us. Became aware that we do not have an inventory of everything here at Apple Canyon Lake. Encourage us to get started on that. How do we reconcile that we have a budget if we don't know what we own, what's going out, etc. Steve Borst – our Reserve Study lists every asset of the association, originally done in 2013 by an outside party. When I first got on the Board and became Treasurer, I asked the GM about it updated regularly. Spent about a ¼ of my time as Finance Manager updating this. We do manage this.

Ron Carpenter, 11-247 – Thank the board for the vote on the flood mitigation. People need to understand that the existing dam is inspected every year with no deficiency in that structure. Don't want people to be overly concerned that we have a problem with the dam – we don't. Getting back to the brush, if you just cut back, roots rot, then we have a hole. We have to stay on top of it.

Reserve study – in house about 10 years ago and working on that regularly. Every time it gets done, it's better.

LeAnn Killeen, 12A62 – Thank you to the ladies for the pavilion. My parents would have loved this – they did contribute to it. Question about the names on a spreadsheet that donated – wish the higher donations would be more noticed. Laura Pratt – We tried to give the original donors more prominence by placing their pavers right at the pavilion.

Gary Hannon, 8-239 – Conservation commission, Winchester project – need to understand that we have been waiting close to 3 years on getting this 319 grant. Fantastic grant 60/40 split with EPA paying 60%. Make sure the Winchester project does not get overlooked.

Henry Doden, 13A129 – Growth on the dam – problem there. But, Koesters pond has the same problem. Trees growing. Not being maintained. Railings – can get a splinter on them. Should have a commercial railing system in here and install.

**17.0 Adjournment** – motion to adjourn by Bob Ballenger, seconded by Deb McNamee, motion carried unanimously at 10:33 AM.

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Recording Secretary, Rhonda Perry

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President, Nolan Mullen

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Corporate Secretary, Laura Pratt

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Date



# Memorandum

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**To:** Board of Directors

**Date:** July 11, 2024

**From:** ACLPOA

**Memo:** 2024-39

**Topic:** July Consent Agenda

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**Recommendation:** To approve/adopt minutes from the June 15, 2024, Board meeting.

To approve Dave Bohnenkamp to join the Nominating Committee; to allow Mark Fill to join the Recreation Commission, and to approve Sue Gardner to join the Tellers Commission.

To approve the reassignment of Board Liaisons:

AECC –

Board Policy –

Budget/Audit –

Campground –

Conservation –

Deer Management –

Employee Handbook –

Flood Mitigation –

Golf –

*Continued – See reverse side.*

Legal –

Maintenance –

Memorial Pavilion –

Multi-Sport Complex –

Nominating –

Recreation –

Rules & Regulations –

Safety & Emergency Planning –

Strategic/Long Range Planning –

Tellers –

Trails –

Zebra Mussel –



# Memorandum

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**To:** Board of Directors

**Date:** July 20, 2024

**From:** Employee Handbook Ad Hoc Commission

**Memo:** 2024-45

**Topic:** 6.8 Family Bereavement Leave – 1<sup>st</sup> Reading

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**Issue:** The Employee Handbook Ad Hoc Commission has been working on updating the Employee Handbook. The Family Bereavement Leave Act (820 ILCS 154/10(a)) became effective in Illinois on January 1, 2023. The language in this policy is aligned with the statute and has been reviewed by the Association's Attorney. The policy will come back to the Board of Directors for second and final review at the August meeting.

**Recommendation:** To review policy 6.8 Family Bereavement Leave, ask questions, and/or make recommendations for edits. **No vote to be recorded at this time.**

## 6.8 Family Bereavement Leave

(new)

Effective Date: October 15, 2016

Revision Date:

Employees are entitled to a maximum of two calendar weeks of unpaid leave time in the event of:

- the death of a “covered family member”;
- a miscarriage;
- an unsuccessful reproductive procedure;
- a failed adoption match or an adoption that is not finalized because it is contested;
- a failed surrogacy agreement;
- a diagnosis that negatively impacts pregnancy or fertility; or
- a stillbirth

A “covered family member” is an employee’s child, stepchild, spouse, domestic partner, sibling, parent, mother-in-law, father-in-law, grandchild, grandparent, or stepparent.

1. Employees may use FBLA leave time to: grieve;
  2. attend the funeral or alternative to a funeral of a covered family member;
  3. make arrangements necessitated by the death of the covered family member;
- or
4. Be absent from work due to (i) a miscarriage; (ii) an unsuccessful round of intrauterine insemination or of an assisted reproductive technology procedure; (iii) a failed adoption match or an adoption that is not finalized because it is contested by another party; (iv) a failed surrogacy agreement; (v) a diagnosis that negatively impacts pregnancy or fertility; or (vi) a stillbirth.

FBLA leave time must be completed within sixty (60) days after the date the employee receives notice of the event. Employees must give their manager/supervisor at least 48 hours of advanced notice before taking FBLA leave, unless not reasonable or practicable.

A manager/supervisor may require an employee to provide reasonable documentation of the FBLA leave. Documentation may include a death certificate, published obituary or written verification of death, burial, or memorial services from a mortuary, funeral home, burial society, crematorium, religious institution,

or government agency.

For leave following a loss of negative diagnosis related to pregnancy, surrogacy, or adoption, the manager/supervisor is not allowed to require an employee to disclose the specific event that qualified the employee for the leave. Documentation may be provided by a health care practitioner, or an adoption or surrogacy organization, or on the FBLA form available on the Illinois Department of Labor's website. The website can be found at [labor.illinois.gov](http://labor.illinois.gov).

Employees are entitled to a maximum of six (6) weeks of leave if they experience more than one event during a 12-month period.

Unpaid leave pursuant to the Family Bereavement Leave Act (FBLA) may not be taken in addition to unpaid leave permitted under the Family and Medical Leave Act (FMLA), 29 U.S.C. 2601 et seq., and may not exceed unpaid leave time allowed under the FMLA. However, nothing prohibits the General Manager from allowing employees additional leave time in addition to FMLA.

## 6.8 Bereavement Leave

(original)

Effective Date: October 15, 2016

Revision Date:

Eligible full-time employees are entitled to up to five days paid leave to attend the funeral or otherwise deal with the death of an immediate family member. "Immediate family members" include an employee's spouse, civil partner, child (biological, adopted, foster, stepchild, or otherwise), parent, sibling, grandparent, grandchild, same-sex domestic partner, or same-sex domestic partner's parent or child. Additionally, eligible full-time employees are entitled to use up to three days paid leave to attend the funeral or otherwise deal with the death of a relative who is not an immediate member, including an aunt, uncle, nephew, niece, brother-in-law, sister-in-law, or parent-in-law. Bereavement leave will be paid at an employee's base pay rate multiplied by the number of hours that the employee would have worked if not absent. The employee should notify his/her department manager immediately if he/she wishes to take bereavement leave. Bereavement leave will normally be granted unless there are unusual business needs or staffing requirements. An employee, with his or her manager's approval and final signature of the General Manager, may use any available vacation or personal time off. ACLPOA may request verification of the facts surrounding the requested leave.



# Memorandum

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**To:** Board of Directors

**Date:** July 20, 2024

**From:** Employee Handbook Ad Hoc Commission

**Memo:** 2024-44

**Topic:** 2.5 Attendance – 1<sup>st</sup> Reading

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**Issue:** The Employee Handbook Ad Hoc Commission has been working on updating the Employee Handbook. 2.5 Attendance has been updated to inform the employee about required attendance during the regular work week and during inclement weather. This policy has been reviewed by the Association’s Attorney. The policy will come back to the Board of Directors for second and final review at the August meeting.

**Recommendation:** To review 2.5 Attendance policy, ask questions, and/or make recommendations for edits. **No vote to be recorded at this time.**



## 2.5 Attendance

Effective Date:

Revision Date: October 15, 2016

ACLPOA expects that every employee will be regular and punctual in attendance. This means being in the workplace, ready to work, at their starting time each day. Absenteeism and tardiness place a burden on other employees and on ACLPOA.

When an employee is unable to work due to illness or an accident, they should promptly notify the department manager/supervisor. In the event the department manager/supervisor is unavailable, contact the General Manager. Leaving a message with another staff member or on voicemail does not constitute an accepted notification of absence. If an employee does not report for work and ACLPOA is not notified of their status-circumstance, it will be assumed after two consecutive scheduled work days of absence that the employee has resigned, and will be removed from the payroll.

If an employee becomes ill at work or must leave the workplace for some other reason before the end of the workday, they will inform the department manager/supervisor of the situation.

If an employee arrives at work after their starting time, that time will be charged as unpaid time.

Should undue tardiness or absenteeism become apparent, disciplinary action up to and including discharge may be required.

If an employee is absent two or more days without approval from or contact with the manager/supervisor, ACLPOA may consider the absence a resignation (without proper notice) by the employee.

### **Inclement Weather**

ACLPOA is open for business unless there is a declared State of Emergency the Jo Daviess County Sheriff's department has advised no travel. There may be times, however, when ACLPOA will delay opening or implement an early closure. Use

common sense and best judgment when traveling to work in inclement weather. The General Manager or designee may use their discretion to make the final decision.

However, Safety & Security, Maintenance, Communications, and Natural Resource personnel are essential employees, and are expected to report, and remain on duty until relieved of duty by the General Manager or designee when conditions are safe.

When potentially dangerous weather develops during the day and a decision is made by General Manager to close, the employee will be compensated as if they had worked to the end of the regularly scheduled hours for that day. ~~for the hours actually worked.~~ If an employee elects to leave prior to a decision being made by ACLPOA and has the General Manager's approval to do so, time will be ~~the employee will be~~ charged as unpaid time.

## **2.5 Attendance**

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Revision Date: October 15, 2016

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However, Safety & Security, Maintenance, Communications, and Natural Resource personnel are essential employees, and are expected to report, and remain on duty until relieved of duty by the General Manager or designee when conditions are safe.

When potentially dangerous weather develops during the day and a decision is made by General Manager to close, the employee will be compensated for the hours actually worked. If an employee elects to leave prior to a decision being made by ACLPOA and has the General Manager's approval to do so, time will be charged as unpaid time.

# Memorandum

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**To:** Board of Directors

**Date:** July 10, 2024

**From:** Jon Sabo, General Manager

**Memo:** 2024-40

**Topic:** Winchester Bay 319 EPA Grant

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**Issue:** In order to accept the Winchester Bay 319 EPA Grant, and facilitate the improvements of that area, the board needs to approve cost-sharing as an expense from reserves. The EPA Grant must also be accepted.

**Recommendation:** To accept the Winchester Bay 319 EPA Grant and to authorize the General Manager to facilitate cost-sharing as an expense from reserves.



# Memorandum

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**To:** ACL Board

**Date:** May 4, 2021

**From:** Shaun Nordlie

**Memo #:** 2021-49

**Topic:** Agreement with RES-AES for Final Design Plans for Winchester Bay

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**Analysis:** Resource Environmental Solutions (RES) acquired Applied Ecological Services (AES) in February 2021. AES was hired in 2020 to develop a concept plan for the Winchester Bay stream reach to reduce erosion and limit silt entering into the lake. RES is now proposing Final Design Plans for this area with work starting in 2021. The plan includes the following –

- Topographical Survey – This will be a 1' topographic survey of the proposed project area
- Tree Survey – including all native trees that are recommended to be preserved with the 10-acre project area
- Stream and Riparian Area Site Assessment – Using the topographical data to create a leaf-off color aerial photograph to be used during the site visit
- Preliminary and Final Design Plans & Opinion of Probable Cost for Construction (OPCC) - A preliminary design will be submitted for review and comment from ACL and the permitting agencies. Changes and recommendations will be incorporated into the Final Design which will be signed by an Illinois Licensed Engineer.
- Environmental Permitting – A Corps (Rock Island District / IEPA) Joint Application will be submitted for the project as well as IDNR & USFWS (U.S. Fish and Wildlife Service). They will also complete the Jo Daviess SWCD permit application. And IEPA Stormwater Pollution Prevention Plan. This also includes payment fees for IDNR < JDSWCD and IEPA permits
- Illinois DNR-OWR (Office of Water Resources) requires stream projects with mapped floodways and/or a drainage area greater than 10 square miles in rural area. The project area is less than this requirement, but RES-AES has not received confirmation from the DNR that this would not be a requirement for this project.

The association plans on submitting a 319 Grant with the Illinois EPA in 2023 to help offset some of the cost of the Final Design project/ The total cost of the proposal is

\$61,000. Work will be started in 2021. Money has been budgeted in the 2021 R&R budget for this project.

**Recommendation:** To approve the contract with RES-AES of Broadhead, WI for Preliminary and Final Design Plans for Winchester Bay Stream Reach for \$61,000 to be paid out of the R&R fund.

***Plan on a Page: Improvement of Infrastructure: 1YAP – Retain and continue utilizing consultant services for lake and watershed management and communicate their findings, Continue Dry Dam action plan for sub-watersheds surrounding the lake***



120 W Main Street  
West Dundee, IL 60118

AES Headquarters  
17921 Smith Road  
Broadhead, WI 53520

## A. Cover Letter

March 16, 2021

Shaun Nordlie  
General Manager  
Apple Canyon Lake Property Owners Association  
14A157 Canyon Club Drive  
Apple River, IL 61001

**Re: Proposal for Preliminary & Final Design Plans for Winchester Bay Stream Reach 1.**

Dear Shaun,

Thank you for the opportunity to provide this proposal for services related to Preliminary & Final Design Plans for the proposed Winchester Bay Stream Reach 1 Restoration Project. For your review, we have enclosed our scope of work based on our understanding of your request for services.

AES was acquired by Resource Environmental Solutions, LLC on February 5, 2021 and is undergoing a name change to RES Great Lakes, LLC. This entity is now a wholly-owned subsidiary of Resource Environmental Solutions, LLC (RES), and all work will be conducted by trusted AES staff, who now have access to the support of RES, without disruptions to your service during our integration. The same experienced and customer-focused AES staff, with whom you have longstanding relationships, will be guiding and performing the services required for this proposal. RES commits to AES' continuity and allocation of quality service.

Once reviewed and signed, please return this Agreement according to the instructions on the signature page.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve R. Zimmerman", with a long horizontal flourish extending to the right.

Steve R. Zimmerman M.S.  
Principal Restoration Ecologist  
RES-AES  
120 West Main Street  
West Dundee, IL 60118  
Cell: 773-507-0982  
Email: szimmerman@res.us



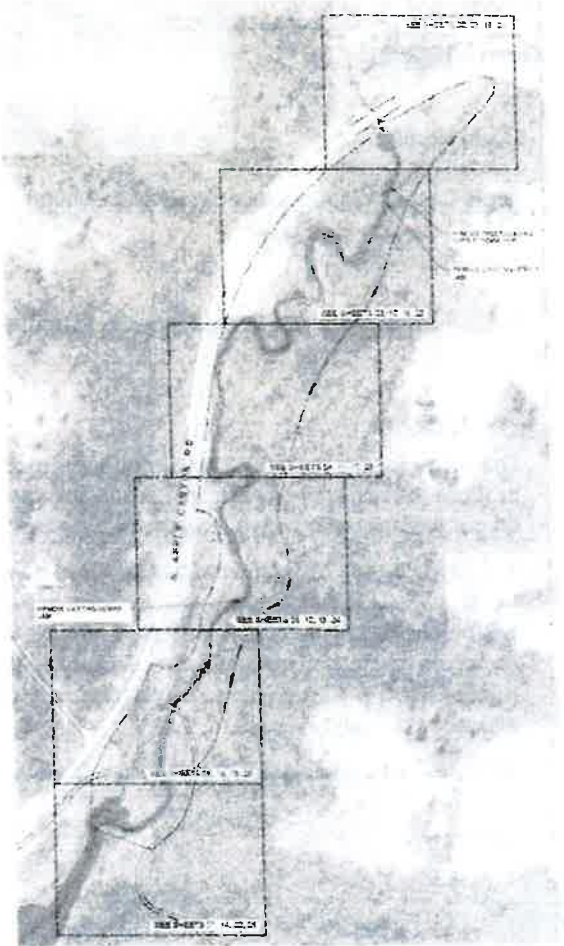


## B. Scope and Fee

### **Task 1. 1' Topographical Survey**

RES-AES will subcontract with HR Green to obtain a 1' topographic survey of the proposed project area (see project boundary below). The survey will primarily include the stream bottom along the centerline, cross sections throughout, and within the riparian areas of Winchester Bay Stream Reach 1 (approximately 2,500 lf & 10 acres). The survey will be done specifically to inform the hydraulic modeling (if required), geomorphic assessment, and the proposed natural stream restoration design. The survey will include:

- Ground shots shall be taken that are sufficient to generate 1-foot interval contours.
- All data will be Georeferenced (NAVD 88) drawing file compatible with AutoCAD Civil 3D DWG format with surface model (contours and TIN) via 3D drawing elements of LandXML.
- Ground control and elevations will be referenced to the nearest Survey Control Point.
- The survey will include ground shots along the stream centerline approximately every 15-20 feet.
- Ground shots shall be taken from the top of the stream banks to the edge of the project boundary.
- The survey will field locate all underground utilities as well as all visible structures such as manholes, outfalls, bridges, rim elevation, invert elevations/directions for all accessible structures and existing property and easement markers adjacent to the project. Markers will be surveyed using typical locating techniques such as metal detectors, and ground shots taken.
- The survey will include cross sections of the stream taken every 100' feet and more frequently along the stream's centerline (25-50') to capture meanders, changes in channel material, spring and seep locations, and other features. Cross sections will extend 50 feet beyond the top of each bank or to the project boundary, whichever is larger. Cross section measurements shall include bank slopes, bottom of stream channel and wetted width on both sides of the stream channel.



*Product:* 1' Topographical Survey

*Lump Sum Fee:* \$17,000

### **Task 2. Tree Survey**

RES-AES will survey all desirable native trees only that are recommended to be preserved within the approximately 10-acre Winchester Bay Stream Reach 1 project area with the assumption that all other trees and shrubs will be removed as part of the proposed project. Each desirable tree will be tagged, assessed, and located using submeter GPS. The information will be tabulated in a Tree Inventory Table including tree tag #, species (common and scientific), DBH, condition, and general comments regarding quality. Resulting data will be used when developing the Tree Preservation/Removal portion of the Design Plan.

*Product:* Tree Survey & Summary Table

*Lump Sum Fee:* \$2,500



### **Task 3. Stream & Riparian Area Site Assessment**

AES will use 1' topographic data (completed under Topographic Survey Task) and display it on a leaf-off color aerial photograph for use during a site visit. A RES-AES Ecologist, Landscape Architect, and Environmental Engineer will meet onsite with the client to determine the appropriate natural stream restoration and riparian area ecological restoration options along Winchester Bay Stream Reach 1. RES-AES will also record detailed notes and take photos related to the existing condition and proposed options. This information will be used to develop the Design Plan.

*Product: Survey Site Notes & Photos*

*Lump Sum Fee: \$3,000*

### **Task 4. Preliminary & Final Design Plans & OPCC**

A RES-AES Ecologist and Landscape Architect will use the Conceptual Plan for Winchester Bay Stream Reach 1 and notes taken during the site visit as the basis for developing Preliminary & Final Design Plans. RES-AES will submit an electronic copy of both the Preliminary Design Plans to the Client for one review and comment. RES-AES will also incorporate all changes that may be required by permitting agencies. In addition, RES-AES will prepare an Opinion of Probable Cost for Construction (OPCC) for both the Preliminary and Final Design. The Final Design Plan will be signed by an Illinois Licensed Engineer. The Preliminary & Final Design Plans will include:

1. Title Sheet with the project location map, general notes, and materials/quantities schedule
2. Construction Specification Sheets including General Provisions, Selective Woody Tree & Brush Removal, Grading, Slope Protection, Rock Based Channel Stabilization, Soil Preparation, Native Seeding, Native Herbaceous Perennial Planting, Native Tree Planting, and Management of Plantings & Stream Structures
3. Existing Condition Sheets depicting existing topographic conditions, floodplain, wetland delineation, etc.
4. Tree Preservation Sheets showing desirable trees to remain and notes regarding debris clearing and removal
5. Layout and Grading Sheets showing existing and proposed topography contours and streambank/channel treatments
6. Stream Profile & Cross Section Sheets showing existing and proposed conditions. Cross sections will be provided every 50-100'
7. Planting Plan Sheets with associated native seed, plant plug, and tree lists and quantities
8. Erosion Control Sheets outlining erosion control measures
9. Detail Sheets with typical channel cross sections, riffle details, planting details, erosion protection details, etc.

*Product: Preliminary & Final Design Plans & OPCC*

*Lump Sum Fee: \$30,000*

### **Task 5. Environmental Permitting**

AES will prepare a Corps (Rock Island District)/IEPA Joint Application for this project. For the Corps (Rock Island District)/IEPA Joint Application permit, RES-AES will submit the Final Design Plans, AES wetland delineation report (April 2020), and prepare appropriate applications to the Illinois DNR & USFWS for T&E Species, Illinois DNR-SHPO for historic properties, as well as prepare the application package and coordinate with the Corps project manager. RES-AES will also complete the Jo Daviess SWCD permit application for soil erosion and sedimentation control and will coordinate requests for additional information and/or revisions to the plan. RES-AES will also prepare an IEPA Stormwater Pollution Prevention Plan (SWPPP) and Notice of Intent (NOI) for the project. Note: The lump sum fee for this task includes Illinois DNR, Jo Daviess SWCD, and IEPA permit fees which are estimated to be approximately \$150, \$2,300, and \$750 respectively.

*Product: Permit Applications*

*Lump Sum Fee: \$8,000*



**Task 6. Illinois DNR-OWR and/or Jo Daviess County Planning & Development**

Under Illinois DNR-OWR requirements, stream projects with mapped floodway and/or with a drainage area greater than 1 square mile in an urban area and greater than 10 square miles in a rural area likely require a Floodway Construction Permit. The permit application requires the applicant to prepare detailed hydrology models to show that flood elevation will not increase as a result of the project. There is no mapped floodway or floodplain within the project boundary. The project is also in a rural area where the watershed to the project 2.43 acres, far less than the 10 acres required for a permit. We prepared a letter to IDNR-OWR on March 8, 2021 requesting a permit determination and followed up twice with no response. Since the drainage area to the project site is less than 10 square miles in a rural area, we assume that an Illinois DNR-OWR permit is not required.

Jo Daviess County Planning & Development Department is responsible for administering various permits related to building codes, zoning, etc. The Department assists the "Floodplain Officer" with administering the Floodplain Ordinance. The Floodplain Officer works with applicants to issue permits that ensure proposed developments do not increase flood heights or velocities. RES-AES contacted the Development Department on March 5, 2021 to obtain permit requirement information. According to the Department, a permit will not be required for doing "stream restoration" work. Rather, correspondence with Illinois DNR-OWR will be forwarded to the Department for their records.

*Product:* IDNR-OWR Application  
*Lump Sum Fee:* \$500

**Total Lump Sum Fee Tasks 1-6:           \$61,000**



## C. Contract Terms and Conditions

### Acceptance

In signing below, each party agrees to abide by all terms and conditions presented in this Agreement and the defined contents. Work will begin upon receipt of this signed authorization.

**\*\*PLEASE SIGN AND RETURN to Applied Ecological Services. An executed contract containing both signatures will be returned to you. This Agreement is not binding upon AES until executed by an officer of AES.**

### Applied Ecological Services, Inc.

Signature:

Date:

Name:

Title:

P.O. Box 256, 17921 Smith Rd.

Brodhead, WI 53520

Phone: 608.897.8641

Fax: 608.897.8486

Email:

### Client:

Signature:

Date:

Name:

Title:

Company:

Address:

City, State, Zip:

Phone:

Fax:

Email:

### Billing Address:

Mark if same as above.

Company:

Name:

Title:

Address:

City, State, Zip:

Phone:

Fax:

Email:

# AmpliFund

## Budget

### Proposed Budget Summary

#### Expense Budget

	Grant Funded	Non-Grant Funded	Total Budgeted
<b>7. Consultant Services and Expenses (2 CFR 200.459)</b>			
Ecological Restoration Firm	\$3,000.00	\$2,000.00	\$5,000.00
<b>Subtotal</b>	<b>\$3,000.00</b>	<b>\$2,000.00</b>	<b>\$5,000.00</b>
<b>8. Construction</b>			
Ecological Restoration Firm	\$331,639.20	\$221,092.80	\$552,732.00
<b>Subtotal</b>	<b>\$331,639.20</b>	<b>\$221,092.80</b>	<b>\$552,732.00</b>
<b>Total Proposed Cost</b>	<b>\$334,639.20</b>	<b>\$223,092.80</b>	<b>\$557,732.00</b>

#### Revenue Budget

	Grant Funded	Non-Grant Funded	Total Budgeted
<b>Grant Funding</b>			
Award Requested	\$334,639.20		\$334,639.20
<b>Subtotal</b>	<b>\$334,639.20</b>		<b>\$334,639.20</b>
<b>Non-Grant Funding</b>			
Cash Match		\$223,092.80	\$223,092.80
In-Kind Match		\$0.00	\$0.00
Other Funding and Contributions		\$0.00	\$0.00
<b>Subtotal</b>		<b>\$223,092.80</b>	<b>\$223,092.80</b>
<b>Total Proposed Revenue</b>	<b>\$334,639.20</b>	<b>\$223,092.80</b>	<b>\$557,732.00</b>

### Proposed Budget Detail

See attached spreadsheet.

### Proposed Budget Narrative



**Winchester Bay Stream Reach 1 Restoration Project**

Prepared by Apple Canyon Lake Property Owners' Association  
for Environmental Protection Agency Section 319(h) "NPS Pollution Control Financial Assistance Program - Watershed-  
Based Plan Implementation and Other Activities

**Submitted by Ashlee Miller**

**Submitted on 12/06/2022 2:12 PM Central Standard Time**

## Opportunity Details

### Opportunity Information

CSFA Number

532-60-0378

CSFA Popular Name

Section 319(h) Grant Program

Title

Section 319(h) – NPS Pollution Control Financial Assistance Program - Watershed-Based Plan Implementation and Other Activities

Description

The Illinois Environmental Protection Agency (Illinois EPA) is seeking proposals for nonpoint source (NPS) pollution control projects (Projects) to prevent, eliminate, or reduce water quality impairments to Illinois' surface and groundwater resources. The Illinois EPA receives federal funds from the United States Environmental Protection Agency (U.S. EPA) through Section 319(h) of the Clean Water Act (33 U.S.C. § 1329(h)) to help implement the Section 319(h) Nonpoint Source Pollution Control Financial Assistance Program (a.k.a. Section 319(h) Grant Program) (<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Pages/section-319.aspx>). Specifically, to implement performance measures as outlined in Chapter 7 (Short and Medium-Term Objectives and Milestones) in the Illinois' Nonpoint Source Management Program (INPSMP) (Illinois EPA, 2013) (<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Documents/NPS-Management-Program.pdf>).

NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into lakes, rivers, wetlands and even our underground sources of drinking water. It has been determined that over 60% of the (national) documented water pollution problem can be traced to nonpoint sources.

The Section 319(h) Grant Program prioritizes Projects addressing Illinois waters for which NPS pollution is a significant cause of water quality impairment. Assessment information for Illinois' waterbodies can be found in the most recent Integrated Water Quality Report and Section 303d List (<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/303d-list.aspx>).

This NOFO will give higher priority to projects that implement components of an Illinois EPA-approved watershed-based plan (WBP) (<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/watershed-based-planning/Pages/default.aspx>) or an Illinois EPA-approved Total Maximum Daily Load (TMDL) Implementation Plan (<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/default.aspx>). These Projects can include best management practice (BMP) implementation, environmental monitoring, social indicator monitoring, and outreach efforts. Individual BMPs, treatment systems or outreach efforts not identified in a WBP or TMDL Implementation Plan are eligible for funding but will not be prioritized as highly as those Projects specifically identified in an Illinois EPA-approved WBP or TMDL Implementation Plan.

Examples of project types and BMPs that have been, or could be, funded through the Section 319(h) Grant Program-Watershed-Based Plan Implementation and Other Activities are listed below. The list is not all-inclusive, and inclusion of a Project, activity, or BMP does not equate to an automatic eligibility for funding under the NOFO.

Eligible Section 319(h) Grant Program Project types include:

- o Implementation of NPS components of an Illinois EPA-approved watershed-based plan (WBP)
- o Implementation of NPS components of an U.S. EPA-approved Total Maximum Daily Load (TMDL) Implementation Plan
- o Best Management Practice (BMP) Implementation
- o NPS Information and/or Outreach Programs
- o NPS Technical Assistance (planning and/or implementation)
- o Monitoring (requires an Illinois EPA approved QAPP submitted by application deadline)

Eligible Section 319(h) Grant Program BMP types include:

o WETLANDS (RURAL AND URBAN)

- Wetland restoration or enhancement
- Wetland area protection
- New wetland development

o STREAMS (RURAL AND URBAN)

- Stream channel and streambank stabilization
- Meandering a channelized stream
- In-stream habitat restoration
- Reconnecting stream to floodplain
- Levee removal or modification

o LAKES (RURAL AND URBAN)

- Lakeshore stabilization
- In-lake practices
- Detention practices (sediment and nutrient)
- Aeration/destratification

o AGRICULTURAL

- Nutrient management planning and plan implementation
- Erosion and sediment control
- Livestock exclusion
- Livestock waste management (limited to non-permitted activities)
- Buffers and filter strips

o URBAN (URBAN BMPs - SUPPLEMENTAL GUIDANCE FOR FUNDING ELIGIBILITY -

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Documents/Urban-BMPs-Supplemental-Guidance.pdf>)

- Rain gardens and rain barrels
- Permeable and porous pavements
- Green roofs
- Bioswales, bioretention, and urban filter strips

o RESOURCE EXTRACTION (LIMITED TO MINE LAND ABANDONED PRIOR TO 1972)

- Acid mine drainage control
- Soil erosion and sediment control

o RIPARIAN ZONE (RURAL AND URBAN)

- Native vegetation planting
- Tree and shrub planting
- Riparian wetland restoration

o EDUCATION AND OUTREACH ACTIVITIES.

- Projects to promote implementation of activities to help restore degraded waters or protect waters from degradation due to NPS pollution. Projects could be:
  - statewide or community-based efforts such as training, displays, and workshops.
  - development of technical and administrative guidance tools to assist responsible units of government and agencies in the selection and implementation of BMPs and administrative mechanisms for controlling NPS pollution.
  - Local NPS information/education projects as recommended in a WBP or TMDL Implementation Plan.

o MONITORING FOR ENVIRONMENTAL AND/OR SOCIAL INDICATORS.

- Environmental and social indicator monitoring to help document the need for NPS pollution control or to validate the accomplishments of ongoing and completed NPS pollution control projects. Applications that include monitoring (environmental, social indicator, or data management) are required to submit a copy of an Illinois EPA approved Quality Assurance Project Plan (QAPP) for that monitoring at the time of application. Monitoring components for applications without an approved QAPP will not be considered for funding, however, the remainder of the application and budget will be reviewed for funding consideration. U.S. EPA guidance for QAPPs can be found at: <https://www.epa.gov/quality/guidance-quality-assurance-project-plans-epa-qag-5>

Applicants may apply for more than one project.

Partial funding may be offered if sufficient funds are not available to fund an entire application.



Illinois Environmental Protection Agency

Agency Contact Name  
Christine Davis

Agency Contact Phone  
217-782-3362

Agency Contact Email  
epa.bowgrants@illinois.gov

Fund Activity Categories  
Environmental Quality

Category Explanation  
Illinois EPA's Section 319(h) Nonpoint Source Pollution Control Financial Assistance Program (a.k.a. Section 319(h) Grant Program) is designed to provide grant funds for projects that prevent, eliminate, or reduce water quality impairments caused by NPS pollution.

Opportunity Manager  
Christine Davis

Announcement Type  
Initial Announcement

Funding Opportunity Number  
378-2421

Assistance Listings Number  
66.460

Public Link  
<https://il.amplifund.com/Public/Opportunities/Details/a45bb70d-d072-41e5-b1d9-5ef00782047b>

Is Published  
Yes

## Funding Information

Funding Sources  
Federal Or Federal Pass Through, State

Funding Source Description  
This grant award is utilizing State and federal pass-through funds. The federal pass-through funds are received from U.S. EPA and distributed by Illinois EPA under Section 319(h) of the Clean Water Act. Illinois EPA expects to award a total of up to \$4.5 million and anticipates distributing this amount across twelve (12) to fifteen (15) projects. The actual amount depends upon the final U.S. EPA budget approved by Congress and the allocation awarded to Illinois by U.S. EPA. The Section 319(h) Grant Program does not have a set maximum or minimum total project cost or grant amount. However, in the past, Projects have had total project costs that generally ranged from \$80,000 to \$2,000,000 and federal grant assistance has generally ranged from \$48,000 to \$1,200,000. No more than 50% of the funds, per funding cycle, shall be allocated to any one applicant or project.

The Section 319(h) Grant Program is a reimbursement program. The Grantee must perform the work, pay Project costs, and submit an invoice with supporting documentation before Illinois EPA will reimburse the Grantee for any approved eligible costs. Illinois EPA shall only make reimbursements to the Grantee and shall reimburse the Grantee no more frequently than monthly.

The Illinois EPA may elect to partially fund an application by funding discrete portions or phases of the Project scope of work. This could be due to ineligible (e.g., proposed monitoring without an approved QAPP) or low priority components identified in the application or inadequate funds available to complete the entire Project.

The Section 319(h) Grant Program may provide up to 60% of the approved Project costs. The remainder, normally 40% is the responsibility of the Grantee and constitutes the match. The Grantee must document the required match at, or before, the time of invoice for reimbursement. Match may include money spent or in-kind services utilized to complete the approved Project tasks. Match cannot be federal funds or funds used to match another federal program. Match can be provided by the Grantee, sub-contractor, or Project partners (e.g., State programs, private foundations, landowners). A Grantee may match greater than 40%.

If an applicant wants to use a grant from another funding agency as match, the applicant should check with that funding agency issuing the grant to ensure that it may be used as match for the Section 319(h) Grant Program. The following applies when using other grants to match the Section 319(h) Grant Program:

- The matching grant scope of work must directly satisfy a portion of the Section 319(h) Grant Program scope of work
- The date that the Grantee incurs costs for the matching grant must fall within the effective and expiration dates of the Section 319(h) Grant Program grant agreement
- The costs incurred under the matching grant must be eligible according to the Section 319(h) Grant Program criteria

## Award Information

Award Type

Competitive

Expected Number of Awards

12.00

Indirect Costs Allowed

Yes

Indirect Cost Description

In order to charge indirect costs to a grant, the Grantee must have an annually negotiated indirect cost rate agreement (NICRA). There are three types of NICRAs:

1. **Federally Negotiated Rate.** Organizations that receive direct federal funding may have an indirect cost rate that was negotiated with the Federal Cognizant Agency. The State of Illinois will accept the federally negotiated rate. The applicant must provide a copy of the federally negotiated NICRA.
2. **State Negotiated Rate.** The applicant must negotiate an indirect cost rate with the State of Illinois if they do not have a Federally Negotiated Rate or elect NOT to use the De Minimis Rate. The indirect cost rate proposal must be submitted to the State of Illinois within 90 days of the Notice of State Award.
3. **De Minimis Rate.** An organization that has never received a Federally Negotiated Rate may elect a de minimis rate of 10% of modified total direct cost (MTDC). Once established, the de minimis rate may be used indefinitely. The State of Illinois must verify the calculation of the MTDC annually in order to accept the de minimis rate.

An applicant has the discretion not to claim payment for indirect costs. Applicants that elect not to claim indirect costs cannot be reimbursed for indirect costs.

Restrictions on Indirect Costs

No

Matching Requirement

Yes

## Submission Information

Submission Window

10/21/2022 12:00 PM - 12/07/2022 12:00 PM

Submission Timeline Type

One Time

## Submission Timeline Additional Information

The Illinois EPA shall not extend the application deadline date. Incomplete applications shall not be considered for funding and preclude the Illinois EPA from making an award to the applicant.

## Allow Multiple Applications

Yes

## Technical Assistance Session

### Technical Assistance Session

Yes

### Session Date and Time

11/02/2022 1:30 PM

### Conference Info / Registration Link

<https://illinois.webex.com/illinois/j.php?MTID=m20d48817e89bfb44a0354790b1ef8c5b>

## Eligibility Information

### Eligibility Type

Public

### Eligible Applicants

- Government Organizations
- Nonprofit Organizations
- Education Organizations
- Public Housing Organizations
- For-Profit Organizations
- Small Businesses
- Individuals
- Others

### Additional Eligibility Information

Section 319(h) Grant Program funds are available to any entity that has legal status to accept funds from the State of Illinois. This can include: local watershed groups; land conservancies or trusts; public and private profit and nonprofit organizations and institutions; units of county, municipal, township, and state governments; universities and colleges; park districts and other local land managing agencies; soil and water conservation districts; conservation organizations; and others.

Section 319(h) Grant Program applicants must have the financial ability to initiate the project, pay expenses, and then request reimbursement from the Illinois EPA, while continuing to finance their normal operating expenses.

Applicants must have the authority and ability to implement the proposed project or propose to subcontract portions of the project to the appropriate entities for implementation.

Match is required. See the Funding Information Section for more information.

Applicants may only apply for a grant through the Grant Accountability and Transparency Act (GATA) Grantee Portal, [www.grants.illinois.gov](http://www.grants.illinois.gov). During GATA Portal pre-qualification, Dun and Bradstreet verifications are performed including a check of Debarred and Suspended status and good standing with the Secretary of State. The pre-qualification process also includes a financial and administrative risk assessment utilizing an Internal Controls Questionnaire. If applicable, the applicant will be notified that it is ineligible for award as a result of the Dun and Bradstreet verification. The applicant will be informed of corrective action needed to become eligible for a grant award.

Examples of ineligible projects, activities, tasks, and components that shall not be funded through Section 319(h) are provided below. The list is not all-inclusive:

- o Any activity or project that does not control, prevent, or address NPS pollution
- o Any activity or project required by State or federal law or State or federal permit, including activities required or

anticipated to be required by National Pollutant Discharge Elimination System (NPDES) regulations, including Phase 1 and Phase 2 stormwater permit requirements

- o Routine maintenance or repair of existing on-site systems, such as culvert replacement, street sweeping, catch-basin cleaning
- o Bonus or acceleration payments to contractors to meet contractual completion dates for construction; fees for failure to pay invoices on time, check overdrafts, etc.
- o Mitigation costs
- o Projects used mainly for habitat improvement, flood control, sediment removal (dredging), support facilities (roads, sewer systems), historic preservation, water supply protection, recreation, or wastewater treatment. However, if the Project serves both eligible and ineligible components, Section 319(h) funds may be provided for the eligible portion of the Project, on a proportional basis
- o Ineligible activities based on current U.S. EPA guidelines for Section 319(h) grants

Match cannot be federal funds or funds used to match another federal program.

The grantee must have Illinois EPA's approval prior to incurring costs for implementation of any part of the Project. In addition, costs incurred prior to the grant agreement's effective term date or after its term ends are ineligible for reimbursement. Costs incurred prior to the grant agreements' effective date or after its term ends are ineligible as match unless otherwise approved as match by Illinois EPA.

Grantees shall not use any subcontractors, outside associates, or consultants in connection with any services covered by a grant agreement unless specifically authorized by the Illinois EPA.

Grantees shall use procurement procedures that reflect applicable local and State of Illinois laws and regulations relating to any sub agreements for the performance of grant projects funded under the Section 319(h) Grant Program.

The requirements of the U.S. EPA Guidance for Management of Section 319(h) Grant Program Funds apply to all recipients of grants made with funds appropriated by Congress under Section 319(h) of the Clean Water Act.

## Administrative Criteria

If the answer to any of the following Administrative Criterion is No, the application shall not be considered for funding.

Did the applicant meet all of the following requirements for Merit-Based Review eligibility?

- 1) All Section 319(h) Grant Program – Project Details completed with support documentation (i.e., map, design and drawings), as appropriate
- 2) Included a QAPP, if applicable.

## Additional Information

Additional Information URL

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Pages/default.aspx>

Additional Information URL Description

Additional information about Section 319(h) can be found on Illinois EPA's NPS webpage. Check out the Illinois' Nonpoint Source Management Program and the Section 319(h) Biannual Report, which describes the projects that have been funded in the past under the Section 319(h) Grant Program.

Environmental or social indicator monitoring is not required in order to qualify for the Section 319(h) Grant Program.

It may be difficult to complete projects that include BMP design, engineering and permitting, BMP implementation, and monitoring during a single grant period. Applications for renewal or supplementation of existing projects are eligible to compete with applications for new grant awards. Contact the NPS Unit at (217) 782-3362 to discuss application options for long-term projects.

Illinois EPA has the right to use (including, but not limited to, citing, circulating, displaying, and reproducing) all products that result from the Grantee receiving financial assistance under the grant agreement whether the product is developed by the Grantee or a sub-grantee.

Illinois EPA is not obligated to make any grant award as a result of this NOFO.

## Award Administration Information

## State Award Notices

The Illinois EPA shall issue a Notice of State Award (NOSA) to the successful grant applicants. The NOSA shall specify the funding terms and specific conditions resulting from the Fiscal and Administrative and Programmatic Risk Assessments. The NOSA must be accepted by an authorized representative of the grant applicant before a grant agreement can be sent to the applicant. A NOSA is not an authorization to begin project activities or incur costs.

## Administrative and National Policy Requirements

The terms and conditions of the award shall be specified in the NOSA and the grant agreement.

No Grantee shall receive a grant or any other State or federal assistance that would provide more than 100% of the eligible Project costs.

Each Grantee must agree to comply with all applicable federal and State requirements. This includes Uniform Administrative Requirements, 2 C.F.R. § 200, Executive Order 12372 "Intergovernmental Review of Federal Programs", and GATA. These can have a significant impact on the costs and complexity of a Project. The Section 319(h) Grant Program Grantees will be expected to submit signed assurances that they will comply with all federal mandates, including:

- a) The Interagency Wetland Policy Act of 1989; 20 ILCS 830/: In accordance with the Interagency Wetland Policy Act of 1989, a Grantee whose proposed Project site is located on or within 250 feet of a wetland site listed on the National Wetlands Inventory will be required to comply with the requirements of the Act. This includes developing a plan to minimize adverse impacts on wetlands or providing written evidence that the proposed Project will not have an adverse impact on a wetland. Project must also comply with Federal Wetlands Protection regulations at 24 C.F.R. § 58.5(b)(2), which may require preparation of an Eight-Step Wetlands Review.
- b) Illinois Endangered Species Protection Act; 520 ILCS 10/ and the Illinois Natural Area Preservation Act; 525 ILCS 30: Compliance requires consultation with the Endangered Species Consultation Program of the Illinois Department of Natural Resources to assure compliance. The consultation process must be implemented to avoid or minimize adverse impacts to State-listed species and their essential habitats that may result from the actions of State and local units of government. Grantees must certify the completion of the consultation process.
- c) Illinois Prevailing Wage Act; 820 ILCS 130/: The Illinois Prevailing Wage Act requires the payment of prevailing wages for all construction funded in whole or in part with State funds, including funds passed through to private firms. Grantees shall comply with all requirements of the Prevailing Wage Act, including but not limited to, inserting into all contracts for construction a stipulation to the effect that not less than the prevailing rate of wages as applicable to the Project shall be paid to all laborers, workers, and mechanics performing work under the award and requiring all bonds of contractors to include a provision as will guarantee the faithful performance of such prevailing wage clause as provided by contract. Grantees will be required to report on Prevailing Wage Act compliance. If your Project involves construction and/or equipment installation, go to <https://www2.illinois.gov/idol/LawsRules/CONMED/Pages/prevailing-wage-act.aspx> for more information.
- d) Illinois Works Jobs Program Act; 30 ILCS 559/: Grantees must comply with requirements in the Illinois Works Jobs Program Act. For grants with an estimated total Project cost of \$500,000 or more, the Grantee will be required to comply with the Illinois Works apprenticeship Initiative; 30 ILCS 559/20-20 to 559/20-25 and all applicable administrative rules. The "estimated total Project cost" is a good faith approximation, at the time an applicant submits a grant application, of the costs of an entire project being paid for in whole or in part by appropriated capital funds to construct a public work. The goal of the Illinois Works Apprenticeship Initiative is that apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. Grantees will be permitted to seek a waiver or reduction of this goal in certain circumstances pursuant to 30 ILCS 559/20-20(b). The Grantee must ensure compliance for the life of the entire Project, including during the term of the grant and after the term ends, if applicable, and will be required to report on and certify its compliance.
- e) Business Enterprise Program for Minorities, Females, and Person with Disabilities Act; 30 ILCS 575/: For grant awards of \$250,000 or more, the Grantee will be required to comply with the Business Enterprise Program for Minorities, Females, and Persons with Disabilities Act, which establishes a goal for contracting with businesses that have been certified as owned and controlled by persons who are minority, female, or who have disabilities. The Grantee must document a plan for compliance prior to the establishment of the grant agreement and ensure compliance through the life of the grant.
- f) The National Emission Standards for Hazardous Air Pollutants for Source Categories; 40 C.F.R. § 63: These standards assure that, when existing buildings are demolished and/or renovated, people outside of those buildings (e.g., passers-by or neighborhood residents) are protected from airborne asbestos. If asbestos materials are involved in the rehabilitation work, the Grantee must contact the Field Operations Section, Bureau of Air of



the Illinois EPA to ensure compliance with asbestos NESHAP.

Successful applicants will be required to execute a formal grant agreement and adhere to all requirements of the Section 319(h) Grant Program and other State and federal contractual requirements.

In the grant agreement, the Grantee shall be required to:

- Certify that it does and shall comply with all provisions of the federal Internal Revenue Code (26 USC 1), the Illinois Income Tax Act; 35 ILCS 5/, and all rules promulgated thereunder, including withholding provisions and timely deposits of employee taxes and unemployment insurance taxes.
- Certify that it does and shall comply with the reporting requirements of the Federal Funding Accountability and Transparency Act of 2006; PL 109–282, September 26, 2006, 120 Stat. 1186 with respect to federal Awards greater than or equal to \$25,000.
- Certify that it shall adhere to the applicable Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations, and are incorporated herein by reference. See 44 Ill. Admin. Code 7000.30(b)(1)(A).
- Certify that it and its sub-grantees shall: (i) be registered with the federal SAM if seeking an Award that is partially or fully paid by federal funds and registered with the State equivalent of SAM; (ii) be in good standing with the Illinois Secretary of State; and (iii) have a valid DUNS number. It is Grantee's responsibility to remain current with these registrations and requirements. If Grantee's status with regard to any of these requirements change, or the certifications made in and information provided in the Uniform Grant Application changes, Grantee's must notify the Grantor in accordance with ARTICLE XVIII.
- Submit a "Section 319(h) BMP Documentation Form Part I" with designs, maps, and pollutant load calculations for all BMPs, including BMPs installed with matching funds. The designs must be certified by U.S. Department of Agriculture - Natural Resources Conservation Service (NRCS) staff or a registered or licensed professional engineer of Illinois. The designs must be approved by the Illinois EPA, Bureau of Water, NPS Unit prior to the start of BMP construction or implementation.
- Secure applicable State and federal permits for all BMPs, including BMPs installed with matching funds, prior to the start of their implementation.
- Develop and submit a 10-year O&M Plan for each of the BMPs. This includes BMPs installed with matching funds. O&M Plans must be approved by the Illinois EPA's NPS Unit before BMP implementation and are for a minimum of ten (10) years starting from the completion date of the BMP.
- Submit a Section 319(h) BMP Documentation Form Part II with cost documentation and pre- and post BMP photos and/or video of the Project site.
- Submit personnel activity reports accounting on an after-the-fact basis for 100% of the employee's actual time, separately indicating the time spent on the Section 319(h) grant, other grants or projects, vacation or sick leave, and administrative time, if applicable.

## Reporting

All Projects require quarterly reporting of progress. Quarterly progress reports shall include both a Periodic Financial Report and a Periodic Performance Report.

All Projects require a final project report. The grantee shall submit to the Illinois EPA, by the date specified in the grant agreement, a report explaining the execution of the project and evaluating the Project's success. The report shall document the Project tasks and summarize the findings, costs, and benefits of the Project.

## State Awarding Agency Contacts

If you have any programmatic questions regarding the Section 319(h) Grant Program, this NOFO, or the Section 319(h) Grant Program application, contact the Illinois EPA's Nonpoint Source Unit staff at:

Illinois Environmental Protection Agency  
Bureau of Water, WMS, NPS Unit #15  
1021 North Grand Avenue East, P.O. Box 19276  
Springfield, Illinois 62794-9276  
Email: [epa.bowgrants@illinois.gov](mailto:epa.bowgrants@illinois.gov)  
Phone: (217) 782-3362

If you have any fiscal and administrative questions regarding the Uniform Grant Application, the Uniform Grant Budget Template, Indirect Cost Rates, Internal Controls Questionnaire (ICQ), contact the Illinois EPA's Fiscal staff at:

Illinois Environmental Protection Agency Fiscal  
1021 North Grand Avenue East, P.O. Box 19276  
Springfield, Illinois 62794-9276  
Email: [Max.Paller@illinois.gov](mailto:Max.Paller@illinois.gov)  
Phone: (217) 558-3386

## Other Information

Additional information about Illinois' Nonpoint Source Management Program can be found on Illinois EPA's website, including the Section 319(h) Biannual Report, which describes the projects that have been funded in the past under the Section 319(h) Grant Program.

Illinois EPA is not obligated to make any grant award as a result of this NOFO.

In the event that a grant award is not fully spent within the grant period, or the project is terminated, Illinois EPA reserves the right to use those unspent funds for another Notice of Funding Opportunity.

## Project Information

### Application Information

Application Name

Winchester Bay Stream Reach 1 Restoration Project

Award Requested

\$334,639.20

Cash Match Requirement

\$0.00

Cash Match Contributions

\$223,092.80

In-Kind Match Requirement

\$0.00

In-Kind Match Contributions

\$0.00

Other Funding Contributions

\$0.00

Total Award Budget

\$557,732.00

### Primary Contact Information

Name

Ashlee Miller

Email Address

ashlee.miller@applecanyonlake.org

Address

14A157 Canyon Club Drive  
Apple River, Illinois 61001-9576

Phone Number

(815) 492-2238



## Project Description

### Uniform Grant Application:

#### Applicant Completed Section

Legal Name (Name used for DUNS registration and grantee pre-qualification)

Apple Canyon Lake Property Owners Association

Common Name (DBA)

Apple Canyon Lake Property Owners Association

Employer/Taxpayer Identification Number (EIN, TIN)

36-2752703

Organizational DUNS Number

GMRAWDXZ157G7

GATA ID (assigned through the grantee portal)

699414

SAM Cage Code

7N4P2

#### Applicant's Organizational Unit

Department Name

Apple Canyon Lake Property Owners Association

Division Name

Apple Canyon Lake Property Owners Association

#### Applicant's Name and Contact Information for Person to be Contacted for Program Matters involving this Application

First Name

Ashlee

Last Name

Miller

Suffix

Title

Interim General Manager

Organizational Affiliation

Apple Canyon Lake Property Owners Association

Telephone Number

815-492-2238

Fax Number

815-492-2160

Email Address

ashlee.miller@applecanyonlake.org

Applicant's Name and Contact Information for Person to be Contacted for Business/Administrative Office

## Matters involving this Application

First Name

Ashlee

Last Name

Miller

Suffix

Title

Interim General Manager

Organizational Affiliation

Apple Canyon Lake Property Owners Association

Telephone Number

815-492-2238

Fax Number

815-492-2160

Email Address

ashlee.miller@applecanyonlake.org

## Areas Affected

Are areas affected by the project?

Yes

No

Please list the areas affected by the Project (cities, counties, state-wide)

The area affected by the proposed Winchester Bay Stream Reach 1 Restoration Project will include approximately 2,600 linear feet of stream and 7.5 adjacent riparian corridor acres primarily along the west side of E. North Apple Canyon Rd. in Apple River, Jo Daviess County, Illinois.

Add Attachments (e.g., maps)

Winchester Bay Stream Reach 1 Site Location Maps.docx

Legislative and Congressional Districts of Applicant

Illinois Congressional District 17

Legislative and Congressional Districts of Program/Project

Illinois Congressional District 17

Attach an additional list, if necessary

## Applicant's Project

Description Title of Applicant's Project

Winchester Bay Stream Reach 1 Restoration Project

Proposed Project Term Start Date

10/2/2023

Proposed Project Term End Date

10/1/2024

## Applicant Certification

By signing this application, I certify (1) to the statements contained in the list of certifications\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil or administrative penalties. (U.S. Code, Title 18, Section 1001)

(\*The list of certification and assurances, or an internet site where you may obtain this list is contained in the Notice of Funding Opportunity. If a NOFO was not required for the award, the state agency will specify required assurances and certifications as an addendum to the application.

Applicant Certification

I Agree

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## 1. Project Eligibility

### Eligibility Information

***If you have any questions regarding this application, please contact Jeff Edstrom at [jeffrey.edstrom@illinois.gov](mailto:jeffrey.edstrom@illinois.gov) or 217.782.3362.***

Please answer the following questions related to determine project eligibility.

Which of the following does the proposal primarily address:

- A. Watershed-Based Plan or TMDL Implementation Plan development
- B. Nonpoint Source Pollution Best Management Practice implementation
- C. Information/Education/Outreach
- D. Monitoring
- E. Any combination of options B, C, and/or D

More information on nonpoint source pollution is found at:

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Pages/what-is-nonpoint-source-pollution.aspx>

Additional information is available in: "Urban BMPs - Supplemental Guidance for Funding"

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Documents/Urban-BMPs-Supplemental-Guidance.pdf>

Is any part of the proposed project being implemented as part of a mitigation effort as required by Illinois state law or federal law?

- Yes
- No

Is any part of the proposed project identified as an action to meet NPDES permit requirements, including MS4 permits?

- Yes
- No

For more information on NPDES permit requirements, view this web link:

<https://www2.illinois.gov/epa/topics/forms/water-permits/waste-water/Pages/default.aspx>

More information on nonpoint source pollution is found at:

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Pages/what-is-nonpoint-source-pollution.aspx>

## 2. Project Summary

Applicant Organization

Apple Canyon Lake Property Owners Association

Project Name

Winchester Bay Stream Reach 1 Restoration Project

Please provide a short summary of the proposed project (up to 1500 characters)

Apple Canyon Lake Property Owners Association (ACLPOA) invested \$73,500 in 2020-2022 working with an Ecological/Engineering Firm to develop Final Engineering Plans for the proposed Winchester Bay Stream Reach 1 Restoration Project located in Apple Lake, Jo Daviess County, Illinois. The project is shovel ready for implementation in 2023 and would be the first water quality improvement project to be constructed as a result of the 2016 Apple Canyon Lake Watershed-Based Management Plan. The proposed project is also located entirely on land owned and managed by ACLPOA.

Illinois EPA approved the 2016 Apple Canyon Lake Watershed-Based Management Plan while the Addendum Report-Water Quality Improvement Projects was submitted to Illinois EPA for review and approval in November 2020. The watershed plan and addendum report identify Winchester Bay Stream Reach 1 as a "Critical Area" for water quality improvement to Winchester Bay of Apple Canyon Lake which requires periodic dredging.

In April 2022, ACLPOA completed the Final Engineering Plans for the proposed Winchester Bay Stream Reach 1 Project. The plan outlines steps to 1) remove invasive/non-native trees and shrubs, 2) install stone toe stabilization, 3) reshape and grade streambanks, 4) install cross vane riffles, then 5) seed and plant the riparian area with native prairie vegetation and a variety of native trees. ACLPOA also plans to fund the first three years of maintenance to establish the project then in perpetuity.

***Remember to periodically save your work while filling out the application.***

- **When you're finished answering the questions on this page, click Mark as Complete. An application cannot be submitted until all pages are marked as complete.**
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### 3. Project Overview

#### Project Details

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**If you have any questions regarding this application, please contact Jeff Edstrom at [jeffrey.edstrom@illinois.gov](mailto:jeffrey.edstrom@illinois.gov) or 217.782.3362.**

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#### Project Background

What is the focus of the project implementation?

Is the proposed project intended to have impacts on specific waterbodies?

Is the proposed project work located within the boundaries of an existing Watershed-Based Plan and/or TMDL?

Project Length (in months)

12 Months

Source of water pollution to be addressed by the project: (Check all that apply. To select more than one, press the CTRL button on the keyboard and use the mouse to click on appropriate choices)

Agriculture, Hydrological Modification/Wetlands, Other

Urban BMPs - Supplemental Guidance for Funding Eligibility found at:

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/nonpoint-sources/Documents/Urban-BMPs-Supplemental-Guidance.pdf>

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**Identify the primary activity or activities to be undertaken through the project by answering yes or no to the questions below.**

Is a primary focus to implement Best Management Practice (BMP) ?

Is a primary focus to undertake Information/Education/Outreach activities?

Does the project have an Environmental Monitoring or Social Monitoring/Indicator component?

No

Other

Yes

Describe "Other" below

Streambank erosion is also a source of water pollution.

## Environmental Justice Areas

Environmental Justice areas are identified on the IEPA Integrated Report GIS Tool by activating the EJStart2021Data layer

<https://illinois-epa.maps.arcgis.com/apps/webappviewer/index.html?id=773c1711e0e9417ea7cd6cad8afb66ea>

Is the project located in, or provides capacity building for, Environmental Justice Communities?

No

Information on Environmental Justice and Illinois EPA is found at the following link:

<https://www2.illinois.gov/epa/topics/environmental-justice/Pages/default.aspx>

## Relationship to Existing Watershed Based Plan(s) and/or TMDL(s)

Status of Watershed-Based Plan or Total Maximum Daily Load (TMDL) Report for project area

Relationship to an approved Watershed-Based Plan

Illinois EPA Approved LESS than 10 Years Old

Information on Watershed-Based Plans can be found here:

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/watershed-based-planning/Pages/default.aspx>

Name(s) of the completed Watershed Based Plan(s) and year approved

Apple Canyon Lake Watershed-Based Management Plan & Addendum Report-Water Quality Improvement Projects

Impairments addressed by the project listed in the completed plan

Sediment, Nitrogen, Phosphorus

Plan website link(s): (if available)

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/watershed-based-planning/Documents/Apple%20Canyon%20Lake%20WBP.pdf>

Relationship to an approved Total Maximum Daily Load (TMDL) Implementation Plan

None

View information for the TMDL Report Status

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/reports.aspx>

Are proposed activities recommended in a Watershed-Based Plan or TMDL?

Yes

**Remember to periodically save your work while filling out the application.**

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## Best Management Practices

The design/engineering approval of the BMPs will be completed by the following: (check all that apply. To select more than one, press the CTRL button on the keyboard and click on all choices.)

Licensed or Registered Professional Engineer of Illinois that has proven experience designing BMPs, Other

Description of "Other" design/engineering approval

A Society for Ecological Restoration certified Ecologist will review plan.

Note: Applications that identify NRCS staff as a source of technical assistance (planning/design/engineering) must submit written confirmation from the NRCS state office that their employees can provide such assistance for this project. Upload copy of written confirmation here.

Have specific BMPs, including type, units, and specific location (known latitude-longitude center point) been identified?

Yes

Have all landowners of the site(s) been identified?

Yes

Have all landowners agreed to allow construction on their property?

Yes

Please describe the status of landowner engagement and willingness to participate in the project.

The proposed Winchester Bay Stream Reach 1 Restoration Project is located entirely on land owned and managed by Apple Canyon Lake Property Owners Association (applicant).

Upload a copy of a map of the location of the project

Winchester Bay Stream Reach 1 Site Location Maps.docx

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## Outreach, Information and Education

Describe the outreach, information and education activities undertaken as part of the project, Include:

- **Project activities and deliverables (Workshops, brochures, etc)**
- **Number of the activities or deliverables (You may have 3 workshops or 500 brochures, etc.)**
- **Total Cost per activity**



- Audience (Urban, Agricultural or All, and Adult, Youth, or All)
- Why it is needed

Examples include:

- Brochures, 500, \$XXXX, Agricultural-Youth, Reason why it is needed
- Meetings, 3, \$XXXX, Urban-All, Reason why it is needed

List outreach, information, and education activities here.

Apple Canyon Lake Property Owners Association (ACLPOA) will produce two (2' by 4') information/education signs that will be strategically placed along the stream restoration project. The signs will cost \$2,500 to produce. The information/education signs are generally aimed at residents of the surrounding rural residential subdivisions. The signs will feature educational material aimed at explaining why stream and riparian area restoration is beneficial for improving water quality, green infrastructure, and wildlife & pollinator habitat.

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## Project Description

In terms of water quality or NPS pollution control, describe the project and the problems it will resolve or prevent including

- the purpose, need and goals for this project
- the local water quality problem that will be addressed
- why this project is important for water quality and Illinois
- its relationship to any Watershed-Based Plans or TMDLs

According to the 2016 Apple Canyon Lake Watershed-Based Management Plan, 948 lbs/yr of Nitrogen, 397 lbs/yr of Phosphorus, and 397 tons/yr of Sediment needs to be reduced from Winchester Bay Subwatershed to meet water quality improvement goals. Stream/riparian restoration projects are extremely beneficial when it comes to improving water quality in Illinois by essentially eliminating streambank erosion which reduces Phosphorus, Nitrogen, and Sediment by nearly 100%. Per the U.S. EPA's PLET Tool, the proposed project proposes to remove 535.45 lbs/yr of Nitrogen (56.5% of total reduction needed), 172.56 lbs/yr of Phosphorus (43.5% of total reduction needed), 7,768.92 lbs/yr of Total Suspended Solids, and 221.48 tons/yr of Sediment (55.8% of total reduction needed). Stream/riparian projects are also important in Illinois for green infrastructure and wildlife habitat, especially in rural areas where much of the native Pre-European settlement vegetation was removed in the past 150 years for agricultural purposes.

The purpose of the proposed Winchester Bay Stream Reach 1 Restoration Project is to stabilize and ecologically restore approximately 2,600 linear stream feet (5,200 lf both banks) and adjacent 7.5 acre corridor. This is needed because the stream reach suffers from moderate to severe bank erosion which is depositing in Winchester Bay of Apple Canyon Lake. ACLPOA then needs to be dredged every few years to alleviate the problem. In addition, much of the riparian corridor is overrun by non-native and invasive trees and ground layer vegetation. The proposed project has 3 primary goals: 1) Improve water quality to Apple Canyon Lake, 2) Improve wildlife and aquatic habitat, and 3) Improve passive recreation and educational opportunities.

Describe the specific outputs and tasks including details about the proposed project

- Summarize the courses of action and detail the tasks and strategies that will achieve the project goals
- Identify the project deliverable and outputs, their order and timing, and who is responsible for each task

Apple Canyon Lake Property Owners Association (ACLPOA) worked with an Ecological/Engineering Firm in 2020-2022 to develop Final Engineering Plans for the proposed Winchester Bay Stream Reach 1 Restoration Project. Since the project is shovel ready, ACLPOA plans to hire an Ecological Restoration Construction Firm to implement the project beginning in late 2023 and likely continuing through fall 2024 (approximately 1 year).

The proposed project has several deliverables and outputs under various entities:

1) ACLPOA will hire an Ecological Restoration Construction Firm with experience in stream and natural area restoration to construct the project.

2) Project outputs are based on the Final Engineering Plan for the project and include:

- Removal of invasive and non-native trees and shrubs from approximately 7.5 acres along the riparian corridor.
- Installation of streambank treatments including bank shaping and stone toe protection along approximately 2,600 linear feet (5,200 if both banks).
- Installation of in-stream treatments including 4 cross-vane riffles.
- Enhancement of 10 existing natural riffles.
- Rock stabilization at 1 culvert outlet.
- Restoration and/or enhancement of approximately 7.5 riparian acres to mesic prairie and wet prairie.
- Planting of 19 native trees.

\*Note that ACLPOA will fund maintenance of the site in perpetuity.

Optional additional narrative describing the project (only one file can be uploaded here).

## 4. Project Background and History

### Background

***If you have any questions regarding this application, please contact Jeff Edstrom at [jeffrey.edstrom@illinois.gov](mailto:jeffrey.edstrom@illinois.gov) or 217.782.3362.***

Please provide a brief history, context and relationship of the proposed project to other NPS control or watershed activities

A diverse group of watershed stakeholders (farm owners, farm operators, property owner association homeowners, government agency representatives, and property owner association personnel) formed in 2014 and led by Jo Daviess County Soil and Water Conservation District to identify water quality and other environmental concerns in the Apple Canyon Lake Watershed then develop the 2016 Apple Canyon Lake Watershed-Based Management Plan and 2020 Addendum Report-Water Quality Improvement Projects.

Apple Canyon Lake Property Owners Association (ACLPOA) was a key stakeholder in the watershed planning process because 2,366 acres (24.2% of the watershed) is part of the Association which includes a private residential recreational community developed around the lake, including the proposed project location. In 2020, ACLPOA hired an Ecological/Engineering Restoration Firm to develop the 2020 Addendum Report-Water Quality Improvement Projects. This document was prepared as a means to locate the most important water quality improvement projects on ACLPOA property. Through this process, Winchester Bay Stream Reach 1 was identified as a "Critical Area" due primarily to the severity of streambank erosion and degraded riparian condition.

Having identified Winchester Bay Stream Reach 1 as a "Critical Area" project, ACLPOA worked with an Ecological/Engineering Restoration Firm between 2020 and 2022 to develop a Final Engineering Plan and cost estimate to complete the project.

Has the applicant ever received Section 319 funds?

No

**When you're finished answering the questions on this page, click [Mark as Complete](#). An application cannot be submitted until all pages are marked as complete.**

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## 5. Additional Project Details

### Project Details

*Remember to periodically save your work while filling out the application.*

- **When you're finished answering the questions on this page, click Mark as Complete. An application cannot be submitted until all pages are marked as complete.**
- **Not finished with this page yet? Click Save or Save & Continue to edit and complete at a later time.**

*If you have any questions regarding this application, please contact Jeff Edstrom at [jeffrey.edstrom@illinois.gov](mailto:jeffrey.edstrom@illinois.gov) or 217.782.3362.*

The application requires completion of relevant worksheets in the following spreadsheet. There are instructions found below and within the spreadsheet file to guide you regarding which worksheets should be completed.

When you complete the worksheet, save it as an Excel file with an appropriate identifying name and upload it below. It should be completed while filling out the online application.

Download the Excel spreadsheet file here

319 Implementation Additional Details (version 9).xlsx

Upload the completed Excel spreadsheet with information required for your project.

Winchester Bay Stream Reach 1-319 Implementation-Application Workbook.xlsx

*Complete the worksheets with information relevant to your project. You can navigate among the worksheets by clicking on the buttons at the top of each worksheet. Instructions for individual worksheets are found below and within the worksheet itself.*

### Watersheds

- **Applicants must list specific watersheds related to the proposed project (up to 10) fill out the "Watersheds" worksheet**
- Identify the Hydrologic Unit Code(s) (HUC) where the project is located. Use the most appropriate size (8-, 10-, or 12-digit) HUC. If it is statewide, write "Statewide".

### Waterbodies

- **Applicants must list specific waterbodies related to the proposed project (up to 20).**
- Use the most recent Integrated Report information to complete rows for up to 20 waterbody segments that are related to the proposed project.
- Information on Assessment Unit ID (AUIDs) and Impaired Waters can be found at the IEPA Integrated Report GIS Tool and the IEPA Integrated Report Web Page
- Information on AUIDs and HUCs can also be found at the RMMS site.

### Specific BMPs

- **Applicants must complete the "Specific BMP" worksheet for projects with known BMP locations.**
- List BMPs to be installed by 12-digit watersheds – Enter all of the BMPs to be implemented, location (lat/long), design status, numbers of units, the relevant estimated pollutant load reductions, the page number where the

BMP is listed in a watershed-based plan, as applicable, and the total construction costs (does not include design costs). The Pollutant Load Reductions can be calculated using the Region 5 Model for Estimating Pollutant Load Reductions. If the BMP type is NOT listed in the dropdown, you may type it in to the table.

- View and download the Region 5 Model to Calculate the Pollutant Load Reductions

## BMP Summary

- **Applicants complete the "BMP Summary" worksheet if BMPs will be implemented as part of the proposed project.**
- Enter a summary of all of the BMPs to be implemented, including the type, number of sites, total units installed, up to three causes of impairments, that the BMP will correct, any reference pages from watershed plans, and total cost per BMP type. This is to provide an overview of numbers and types of BMPs to be installed through the proposed project.

## Scope of Work

- **Applicants must complete the "Scope of Work" worksheet.**
- List all tasks needed to implement the proposed project and the entities responsible for these tasks. Type an "X" into the cells corresponding to the quarters during which work will be done on that task. This fills in the cell. To delete filled cell, simply select the cell and hit the "delete" button in that cell.
- In some circumstances, applicants can request 30 months to complete a project rather than 24. It is determined on a case-by-case basis.

## Budget Summary

- **Applicants should fill out the "Budget Summary" worksheet.**
- When you have completed the budget in the online system, transfer the totals for each category to the spaces below. Verify the total costs and the total project costs. Indicate the amount of State requested funds and the amount of non-State funds that will support the project.

Did you upload the Additional Project Details spreadsheet?

- Yes  
 No

---

## Links for resources listed above

IEPA Integrated Report GIS Tool

<https://illinois-epa.maps.arcgis.com/apps/webappviewer/index.html?id=773c1711e0e9417ea7cd6cad8afb66ea>

RMMS Site

<https://www.rmms.illinois.edu/>

IEPA Integrated Report Web Page

<https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/303d-list.aspx>

Region 5 Model for Estimating Pollutant Load Reductions | US EPA

<https://www.epa.gov/nps/region-5-model-estimating-pollutant-load-reductions>

## 6. Partners and Local Match

Project Partners, their general tasks and responsibilities, and whether the match is cash, in-kind, or both. (Remember to put specific match amount for each partner in the budget section of the application.)

*If you have any questions regarding this application, please contact Jeff Edstrom at [jeffrey.edstrom@illinois.gov](mailto:jeffrey.edstrom@illinois.gov) or 217.782.3362.*

List Project Partners and their General Tasks and Responsibilities for this project using the following suggested format:

- **Project Partner** - Brief description of the project responsibilities performed by the project partner in one or two sentences.
- **Ecological Restoration Contractor** - IEPA Grant/Task Management, Project implementation/construction and hired to perform long term management.
- **Jo Daviess County Soil & Water Conservation District** - Technical Advise, Guidance & Support
- **Apple Canyon Lake Property Owners Association** - Guidance & Support

Briefly summarize expertise/qualifications, knowledge, capabilities, experience and resources relevant to the project.

The proposed Winchester Bay Stream 1 Restoration Project is shovel ready for implementation/construction in 2023. Due to complexity of the proposed project, Apple Canyon Lake Property Owners Association (ACLPOA) will hire a highly skilled team of individuals with a Ecological Restoration Firm to complete the work. Constructing stream restoration projects if often difficult and involves as much art as science. Machine operators must know how to work within areas that often contain flowing water, steep slopes, etc. In addition, the Senior Restoration Ecologist that designed and permitted the project will perform construction oversight to ensure project success.

### Local Match

Will project partners provide match funding?

Yes

Please describe the match funds by match partner including:

- **Name of the organization**
- **Match dollar amount**
- **Type of match (Cash or In-kind)**
- **Availability of match (available immediately, applied for, or pledged)**

Examples include:

- **Organization1, \$X,XXX, Cash, Available immediately**
- **Organization2, \$X,XXX, Cash, Applied for with decision by MM/DD/YEAR**
- **Organization3, \$X,XXX, In-kind, Available immediately**

- **Organization4, \$X,XXX, Cash, Pledged**

Please note that cash and in-kind services incurred prior to the execution of the agreement with Illinois EPA are not eligible as match.

- **Apple Canyon Lake Property Owners Association, \$223,092.80 Cash (40% of total project cost), Available immediately**



## 7. Additional Support Documentation (as needed)

Please upload additional Location Maps (as needed)

Winchester Bay Stream Reach 1 Site Location Maps.docx

Please upload photos (as needed)

Winchester Bay Stream Reach 1 Existing Condition Photos.docx

Please upload additional support documentation File #1 here (as needed):

Winchester Bay Stream R1 Final Engineering Plan.pdf

Please upload additional support documentation File #2 here (as needed):

ACLPOA Cover Letter.docx

Please upload additional support documentation File #3 here (as needed):

Apple Canyon Lake Watershed Plan Addendum Report-Water Quality Projects.pdf

Please confirm that all necessary supporting documents have been uploaded.

I confirm that all necessary additional support documentation has been uploaded.

**When you're finished answering the questions on this page, click [Mark as Complete](#). An application cannot be submitted until all pages are marked as complete.**

Not finished with this page yet? Click [Save](#) or [Save & Continue](#) to fill out the missing information at a later time.



## 8. FFATA Form

All proposals must include a completed copy of the FFATA form. A copy of the form can be downloaded below.

For purposes of this form, the applicant for this notice of funding opportunity is the "sub-recipient". Please fill information about your organization where it asks for information for the sub-recipient.

Please download the FFATA form here.

FFATA-UGBT-201210.pdf

Please upload a completed FFATA form here with an appropriate file name

Form FFATA.pdf

***Remember to periodically save your work while filling out the application.***

- **When you're finished answering the questions on this page, click Mark as Complete. An application cannot be submitted until all pages are marked as complete.**
- **Not finished with this page yet? Click Save or Save & Continue to edit and complete at a later time.**

## 9. Budget Preparation Information

The proposed budget must detail all expenses the organization seeks to cover with the anticipated grant and match funding.

Projects costs are limited to those incurred only during the grant agreement period

Closely follow the instructions and pay special attention to cost eligibility and expenses that may not be covered by the grant or match.

Budgeted items must be cost-effective in relation to the proposed activities.

Include budget narrative that describes all costs within the pop up forms for each line item.

### Tips for filling out the budget form

The budget form includes line items that allow you to document how the budgeted amounts were calculated.

Click on the "+" to add individual line items for each selected budget category. Follow the instructions within the pop up forms.

This form requires the applicant to identify costs as either grant or match line items.

- For grant funded items, select "No" for the "Non-grant funded" field.
- For match funded items, select "Yes" for the "Non-grant funded" field. When you select "Yes", "Cash Match" and "In-Kind Match" input boxes will become visible.

***Remember to periodically save your work while filling out the application.***

- **When you're finished reviewing the information on this page, click Mark as Complete. An application cannot be submitted until all pages are marked as complete.**

## Budget

### Proposed Budget Summary

#### Expense Budget

	Grant Funded	Non-Grant Funded	Total Budgeted
<b>7. Consultant Services and Expenses (2 CFR 200.459)</b>			
Ecological Restoration Firm	\$3,000.00	\$2,000.00	\$5,000.00
<b>Subtotal</b>	<b>\$3,000.00</b>	<b>\$2,000.00</b>	<b>\$5,000.00</b>
<b>8. Construction</b>			
Ecological Restoration Firm	\$331,639.20	\$221,092.80	\$552,732.00
<b>Subtotal</b>	<b>\$331,639.20</b>	<b>\$221,092.80</b>	<b>\$552,732.00</b>
<b>Total Proposed Cost</b>	<b>\$334,639.20</b>	<b>\$223,092.80</b>	<b>\$557,732.00</b>

#### Revenue Budget

	Grant Funded	Non-Grant Funded	Total Budgeted
<b>Grant Funding</b>			
Award Requested	\$334,639.20		\$334,639.20
<b>Subtotal</b>	<b>\$334,639.20</b>		<b>\$334,639.20</b>
<b>Non-Grant Funding</b>			
Cash Match		\$223,092.80	\$223,092.80
In-Kind Match		\$0.00	\$0.00
Other Funding and Contributions		\$0.00	\$0.00
<b>Subtotal</b>		<b>\$223,092.80</b>	<b>\$223,092.80</b>
<b>Total Proposed Revenue</b>	<b>\$334,639.20</b>	<b>\$223,092.80</b>	<b>\$557,732.00</b>

### Proposed Budget Detail

See attached spreadsheet.

### Proposed Budget Narrative

**OPINION OF COST**

ITEM	DESCRIPTION	QUANTITY		Unit Price	Total Cost
		TOTAL	UNIT		
<b>0</b>	<b>GRANT MANAGEMENT</b>				
0.1	QUARTERLY REPORTING & FINAL REPORT	1	LS	\$2,500.00	\$2,500.00
0.2	INTERPRETIVE SIGNAGE (2 SIGNS)	1	LS	\$2,500.00	\$2,500.00
<b>SITE PREPARATION SUBTOTAL</b>					<b>\$5,000.00</b>
<b>1</b>	<b>SITE PREPARATION</b>				
1.1	SURVEY/STAKING/LAYOUT	1	LS	\$10,000.00	\$10,000.00
1.2	MOBILIZATION	1	LS	\$20,000.00	\$20,000.00
1.3	CLEARING, GRUBBING, & TREE REMOVAL	1	LS	\$50,000.00	\$50,000.00
1.4	HERBICIDING (2x)	14.98	AC	\$500.00	\$7,490.00
1.5	DISCING/TILLING (1x)	7.49	AC	\$800.00	\$5,992.00
<b>SITE PREPARATION SUBTOTAL</b>					<b>\$93,482.00</b>
<b>2</b>	<b>EARTHWORK</b>				
2.1	EXCAVATION	1,680	CY	\$25.00	\$42,000.00
2.2	FILL	1,680	CY	\$20.00	\$33,600.00
2.3	FINE GRADING (2.5 TOTAL ACRES)	1	LS	\$40,000.00	\$40,000.00
2.4	CROSS VANE (4 EA) 24"-36" STONE	4	EA	\$3,500.00	\$14,000.00
2.5	RIFFLE TIE IN (IDOT CLASS A5 RIPRAP)	236	CY	\$150.00	\$35,400.00
2.6	STONE TOE PROTECTION (IDOT CLASS A5 RIPRAP)	543	CY	\$150.00	\$81,450.00
2.7	AGGREGATE BASE (IDOT CLASS A1 RIPRAP)	195	CY	\$150.00	\$29,250.00
2.8	RIFFLE ROCK RELOCATION (USING EXISTING STONE)	1	LS	\$10,000.00	\$10,000.00
2.9	OUTLET PROTECTION (IDOT CLASS A7 RIPRAP)	15	CY	\$300.00	\$4,500.00
<b>EARTHWORK SUBTOTAL</b>					<b>\$290,200.00</b>
<b>3</b>	<b>EROSION AND SEDIMENT CONTROL</b>				
3.1	TEMPORARY ROCK CONSTRUCTION ENTRANCE	2	EA	\$6,000.00	\$12,000.00
3.2	STAGING & STOCKPILE AREAS WITH CONSTRUCTION & SILT FEENCE	2	EA	\$4,000.00	\$8,000.00
3.3	SUMP PIT & DEWATERING	1	LS	\$15,000.00	\$15,000.00
3.4	EROSION CONTROL BLANKET - NAG DS75	7,611	SY	\$2.50	\$19,027.50
3.5	EROSION CONTROL BLANKET - NAG SC150BN	4,264	SY	\$4.50	\$19,188.00
3.6	STRAW MULCH	24,412	SY	\$1.80	\$43,941.60
<b>EROSION AND SEDIMENT CONTROL SUBTOTAL</b>					<b>\$117,157.10</b>
<b>4</b>	<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT</b>				
4.1	WET PRAIRIE SEEDING	0.70	AC	\$4,000.00	\$2,800.00
4.2	WET-MESIC PRAIRIE SEEDING	6.79	AC	\$4,000.00	\$27,160.00
4.3	TREE PLANTING & TREE TRUNK PROTECTION (2.5 CAL)	19	EA	\$891.21	\$16,932.90
4.4	TURF GRASS REPAIR AND RESEEDING AS NEEDED	1.00	LS	\$5,000.00	\$5,000.00
<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT SUBTOTAL</b>					<b>\$51,892.90</b>
<b>TOTAL</b>					<b>\$557,732</b>



# Memorandum

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**To:** Board of Directors

**Date:** May 12, 2022

**From:** Ashlee Miller

**Memo:** 2022-61

**Topic:** Winchester Bay Reach 1 Restoration Project Approval for 319 Grant Application

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**Issue & Analysis:** Resource Environmental Solutions (RES) has completed the Final Design for the Winchester Bay Stream Reach 1 Restoration Project. Winchester Bay is the second largest inlet of water in the lake in our watershed and is the second priority of the watershed plan projects. The RES design re-meanders the stream, taking out some of the drastic ox bows currently in the stream. The plan creates some flood plains for taking nutrients out of the water in heavy rain events, armors sides of the stream in areas where there is high erosion, and creates shelves in areas of the stream where one side has a steep bank. Invasive trees and brush will also be removed with native grasses planted to help take sediment out of the water during heavy rain events. The estimated cost of the project is \$590,711.38. This project could qualify for a 319 IEPA Grant and RES will submit a grant on behalf of the Association if they will be hired to oversee the project once construction starts. 319 grant requests are due by the end of July, awards are usually revealed in February of the following year. If ACL were to submit a grant in 2022 and were awarded, work would then start in 2023. With the 319 Grant, the Association would be responsible for 40% of the project cost, approximately \$236,000.

**Recommendation:** To approve the Final Design of Winchester Bay Reach 1 Restoration Project done by RES and to work with RES to submit ACLPOA's application for a 319 IEPA Grant by July 2022.

*Plan on a Page: Improvement of Infrastructure: Create a long-range capital development plan to include but not limited to flood mitigation, clubhouse area and offices, watershed management, dry dam improvements, dredging programs, and campground expansion.*



17921 W. Smith Road  
Brodhead, WI 53520

**Corporate Headquarters**  
6575 West Loop South, Suite 300  
Bellaire, TX 77401

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**Project Information**

**Opinion of Probable Cost**

Winchester Bay Stream Reach 1 Restoration

May 9, 2022

Apple Canyon Lake Property Owners Association.

Below is our Opinion of Probable Cost for the Winchester Bay Stream Rach 1 Restoration project. We will be happy to answer any questions that you may have.

Sincerely,

A handwritten signature in black ink that reads "Josh LaPointe".

Josh LaPointe, Regional Operations Manager  
RES  
608-214-2355  
jlapointe@res.us

A handwritten signature in black ink that reads "Travis Lanser".

Travis Lanser, Estimator  
RES  
262-895-9005  
tlanser@res.us



Scope of Work and Estimate

WINCHESTER BAY STREAM REACH 1 OPC

ITEM	DESCRIPTION	QUANTITY		Unit Price	Total Cost
		TOTAL	UNIT		
<b>1</b>	<b>SITE PREPARATION</b>				
1.1	SURVEY/STAKING/LAYOUT	1	LS	\$8,500.00	\$8,500.00
1.2	MOBILIZATION	1	LS	\$15,900.00	\$15,900.00
1.3	CLEARING, GRUBBING, & TREE REMOVAL	1	LS	\$48,700.00	\$48,700.00
1.4	HERBICIDING (2x)	14.98	AC	\$400.00	\$5,992.00
1.5	DISCING/TILLING (1x)	7.49	AC	\$500.00	\$3,745.00
<b>SITE PREPARATION SUBTOTAL</b>					<b>\$82,837.00</b>
<b>2</b>	<b>EARTHWORK</b>				
2.1	EXCAVATION	1,680	CY	\$32.00	\$53,760.00
2.2	FILL	1,680	CY	\$16.00	\$26,880.00
2.3	FINE GRADING (2.5 TOTAL ACRES)	1	LS	\$11,700.00	\$11,700.00
2.4	CROSS VANE (2 EA) 24"-36" STONE	78	CY	\$270.00	\$21,060.00
2.5	RIFFLE TIE IN (IDOT CLASS A5 RIPRAP)	236	CY	\$220.00	\$51,920.00
2.6	STONE TOE PROTECTION (IDOT CLASS A5 RIPRAP)	543	CY	\$207.00	\$112,401.00
2.7	AGGREGATE BASE (IDOT CLASS A1 RIPRAP)	195	CY	\$150.00	\$29,250.00
2.8	RIFFLE ROCK RELOCATION (USING EXISTING STONE)	1	LS	\$9,600.00	\$9,600.00
2.9	OUTLET PROTECTION (IDOT CLASS A7 RIPRAP)	15	CY	\$360.00	\$5,400.00
<b>EARTHWORK SUBTOTAL</b>					<b>\$321,971.00</b>
<b>3</b>	<b>EROSION AND SEDIMENT CONTROL</b>				
3.1	TEMPORARY ROCK CONSTRUCTION ENTRANCE	2	EA	\$4,800.00	\$9,600.00
3.2	STAGING & STOCKPILE AREAS WITH CONSTRUCTION & SILT FEENCE	2	EA	\$3,400.00	\$6,800.00
3.3	SUMP PIT & DEWATERING	1	LS	\$27,000.00	\$27,000.00
3.4	EROSION CONTROL BLANKET - NAG DS75	7,611	SY	\$1.81	\$13,775.91
3.5	EROSION CONTROL BLANKET - NAG SC150BN	4,264	SY	\$3.29	\$14,028.56
3.6	STRAW MULCH	24,412	SY	\$0.40	\$9,764.80
<b>EROSION AND SEDIMENT CONTROL SUBTOTAL</b>					<b>\$80,969.27</b>
<b>4</b>	<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT</b>				
4.1	WET PRAIRIE SEEDING	0.70	AC	\$4,200.00	\$2,940.00
4.2	WET-MESIC PRAIRIE SEEDING	6.79	AC	\$3,500.00	\$23,765.00
4.3-					
4.5	TREE PLANTING & TREE TRUNK PROTECTION (2.5 CAL)	19	EA	\$700.00	\$13,300.00
4.6	TURF GRASS REPAIR AND RESEEDING AS NEEDED	1.00	LS	\$2,300.00	\$2,300.00
4.7	MANAGEMENT OF PLANTINGS-9.62 TOTAL ACRES (ALL ZONES, 3 YEARS)	3.00	YR	\$11,500.00	\$34,500.00
<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT SUBTOTAL</b>					<b>\$76,805.00</b>
<b>CONTINGENCY 5%</b>					<b>\$28,129.11</b>
<b>TOTAL</b>					<b>\$590,711.38</b>

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**Notes:**

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1. This quote is valid for 60 days.
2. RES is a non-union shop. Prevailing Wages rates not have been included in the above price.
3. Upon acceptance of this quote by the Owner/Client, RES Great Lakes LLC (RES) will provide a Services Agreement necessary for acceptance of the contract by each party.
4. Quote is exclusive of sales tax. Client/Owner shall pay all applicable sales or use taxes, or provide RES with a sales tax exemption certificate to support any exemption.



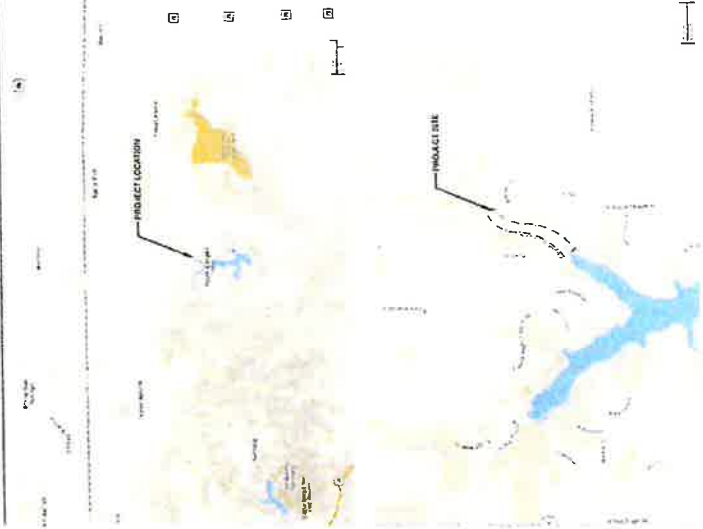


Apple Canyon Land Priority District, Appleton, WI 53002  
 Apple Canyon Land Priority District, Appleton, WI 53002  
 Apple Canyon Land Priority District, Appleton, WI 53002

# FINAL DESIGN FOR WINCHESTER BAY STREAM REACH 1 RESTORATION PROJECT

APPLE RIVER, ILLINOIS  
 APRIL 2022

## PROJECT LOCATION



**CONTACTS**  
 JD DAVIS COUNTY PLANNING & DEVELOPMENT  
 1100 W. COAL DRIVE, SUITE 1  
 HANOVER, IL 61041  
 PHONE: 618-971-3810  
 EMAIL: edavis@jdc.org

**CLIENT CONTACT**  
 ED AVENUE  
 BUILDING AND SOUNDINGS MANAGER  
 OFFICE: 618-482-2187  
 CELL: 618-588-4119

**TYLER HUSSELBAECKER**  
 NATURAL RESOURCE MANAGER  
 OFFICE: 618-482-2187  
 CELL: 618-481-5881

## GENERAL NOTES

1. TOPOGRAPHY AND CONTROL DATA PROVIDED BY HIS DESIGN. 2021. ADDITIONAL FIELD OBSERVATIONS WERE CONDUCTED BY RES STAFF TO SUPPLEMENT AND REVISE DATA. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNER IMMEDIATELY.
2. FINAL PHOTO SOURCE JO DAVISS COUNTY, IL 2018.
3. WETLAND DELINEATION PROVIDED BY AEG MAY, 2020. (AES PROJECT NUMBER 180025)
4. FLOOD MAP. (MMP INFORMATION FROM JO DAVISS COUNTY REGULATORY DEPARTMENT)
5. ANY FIELD ADJUSTMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. SITE BENCHMARKS
7. SOURCE BENCHMARKS
8. COUNTY CONTROL STATION 117  
 ELEVATION 421.0 (MEASURED NAVD83) 12A - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12B - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12C - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12D - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12E - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12F - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12G - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12H - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12I - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12J - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12K - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12L - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12M - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12N - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12O - DISK CAP MISSING ON CONTROL STATION  
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 ELEVATION 421.0 (MEASURED NAVD83) 12Y - DISK CAP MISSING ON CONTROL STATION  
 ELEVATION 421.0 (MEASURED NAVD83) 12Z - DISK CAP MISSING ON CONTROL STATION
9. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION PERMITS SHALL BE CONTACTED PRIOR TO START OF CONSTRUCTION FOR EXACT LOCATION OF ALL UTILITIES AND THEIR PROTECTION DURING CONSTRUCTION. CONTACT JULIE, AT 618-482-2187 OR 482-692-003 TWO WEEKS PRIOR TO START OF CONSTRUCTION FOR THIS PLAN SET.
10. IF UTILITIES ARE ENCOUNTERED THAT CONFLICT WITH ANY OF THE PROPOSED WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
11. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL TO INFORM AND PROTECT THE PUBLIC. THIS SHALL INCLUDE ADEQUATE SIGNAGE AND MANUAL OR AUTOMATIC TRAFFIC CONTROL DEVICES (MUTCO) AND THE ALWAYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ON ALL STREETS, SUBURBAN, AND RECREATIONAL AREAS.
12. IF CONSTRUCTION AND/OR MATERIAL AND EQUIPMENT STAGING REQUIRES PARTIAL CLOSURE OF ANY STREET DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND MANUAL OR AUTOMATIC TRAFFIC CONTROL DEVICES (MUTCO) AND THE ALWAYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ON ALL STREETS, SUBURBAN, AND RECREATIONAL AREAS.
13. ENTRY ONTO PRIVATE PROPERTY SHALL NOT OCCUR UNLESS AUTHORIZED BY PROPERTY OWNER.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND BEED AND PLANT SUPPLIERS PER THE SPECIFICATIONS PRIOR TO COMMENCING BIDDING AND PLANTING WORK.

## SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT	TOTAL
1	SOIL REMEDIATION			
1.1	SOIL REMEDIATION	1	LS	1
1.2	SOIL REMEDIATION	1	LS	1
1.3	SOIL REMEDIATION	1	LS	1
1.4	SOIL REMEDIATION	1	LS	1
1.5	SOIL REMEDIATION	1	LS	1
1.6	SOIL REMEDIATION	1	LS	1
1.7	SOIL REMEDIATION	1	LS	1
1.8	SOIL REMEDIATION	1	LS	1
1.9	SOIL REMEDIATION	1	LS	1
1.10	SOIL REMEDIATION	1	LS	1
1.11	SOIL REMEDIATION	1	LS	1
1.12	SOIL REMEDIATION	1	LS	1
1.13	SOIL REMEDIATION	1	LS	1
1.14	SOIL REMEDIATION	1	LS	1
1.15	SOIL REMEDIATION	1	LS	1
1.16	SOIL REMEDIATION	1	LS	1
1.17	SOIL REMEDIATION	1	LS	1
1.18	SOIL REMEDIATION	1	LS	1
1.19	SOIL REMEDIATION	1	LS	1
1.20	SOIL REMEDIATION	1	LS	1
1.21	SOIL REMEDIATION	1	LS	1
1.22	SOIL REMEDIATION	1	LS	1
1.23	SOIL REMEDIATION	1	LS	1
1.24	SOIL REMEDIATION	1	LS	1
1.25	SOIL REMEDIATION	1	LS	1
1.26	SOIL REMEDIATION	1	LS	1
1.27	SOIL REMEDIATION	1	LS	1
1.28	SOIL REMEDIATION	1	LS	1
1.29	SOIL REMEDIATION	1	LS	1
1.30	SOIL REMEDIATION	1	LS	1
1.31	SOIL REMEDIATION	1	LS	1
1.32	SOIL REMEDIATION	1	LS	1
1.33	SOIL REMEDIATION	1	LS	1
1.34	SOIL REMEDIATION	1	LS	1
1.35	SOIL REMEDIATION	1	LS	1
1.36	SOIL REMEDIATION	1	LS	1
1.37	SOIL REMEDIATION	1	LS	1
1.38	SOIL REMEDIATION	1	LS	1
1.39	SOIL REMEDIATION	1	LS	1
1.40	SOIL REMEDIATION	1	LS	1
1.41	SOIL REMEDIATION	1	LS	1
1.42	SOIL REMEDIATION	1	LS	1
1.43	SOIL REMEDIATION	1	LS	1
1.44	SOIL REMEDIATION	1	LS	1
1.45	SOIL REMEDIATION	1	LS	1
1.46	SOIL REMEDIATION	1	LS	1
1.47	SOIL REMEDIATION	1	LS	1
1.48	SOIL REMEDIATION	1	LS	1
1.49	SOIL REMEDIATION	1	LS	1
1.50	SOIL REMEDIATION	1	LS	1

## SHEET LIST TABLE

Sheet No.	Sheet Title
01	COVER
02	GENERAL NOTES
03	EXISTING CONDITIONS
04	PROPOSED CONDITIONS
05	PROPOSED CONDITIONS
06	PROPOSED CONDITIONS
07	PROPOSED CONDITIONS
08	PROPOSED CONDITIONS
09	PROPOSED CONDITIONS
10	PROPOSED CONDITIONS
11	PROPOSED CONDITIONS
12	PROPOSED CONDITIONS
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49	PROPOSED CONDITIONS
50	PROPOSED CONDITIONS

Apple Canyon Land Priority District, Appleton, WI 53002  
 Apple Canyon Land Priority District, Appleton, WI 53002  
 Apple Canyon Land Priority District, Appleton, WI 53002

COVER  
 01



RES Environmental Services LLC  
 1000 West 10th Street, Suite 100  
 Fort Collins, CO 80521  
 Phone: 970.221.1111  
 Fax: 970.221.1112  
 www.resenv.com

**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Apple Canyon Lake Property Owners Association  
 4000 Apple Canyon Rd  
 Fort Collins, CO 80521

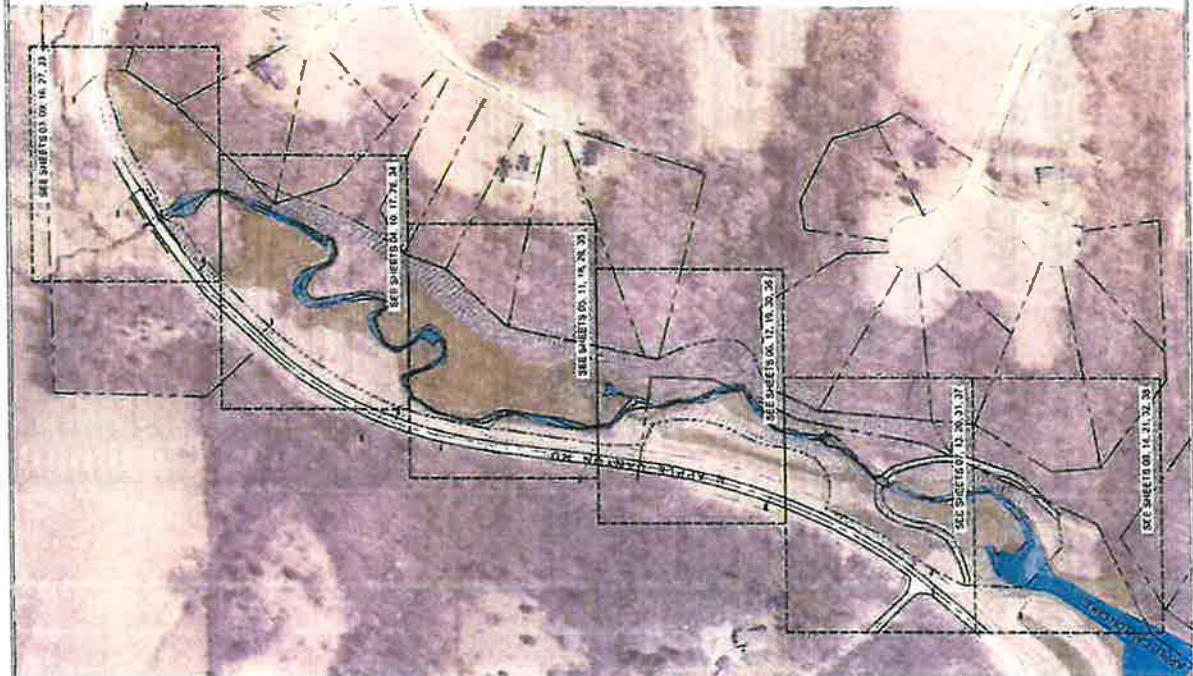
NO.	DESCRIPTION	DATE
1	Issue for Review	10/15/10
2	Final for Permitting	10/15/10

**FINAL FOR PERMITTING**

DATE: 10/15/10

**OVERALL PLAN**

SHEET NUMBER  
**02**







# WINCHESTER BAY STREAM REACH 1 RESTORATION E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	DATE	DESCRIPTION
1	01/20/17	Initial Conceptual Design
2	02/20/17	Final Design
3	03/20/17	Construction Start
4	04/20/17	Construction Complete

**FINAL FOR PERMITTING**

DATE: 01/20/17

**EXISTING CONDITIONS**

SHEET NUMBER: **03**

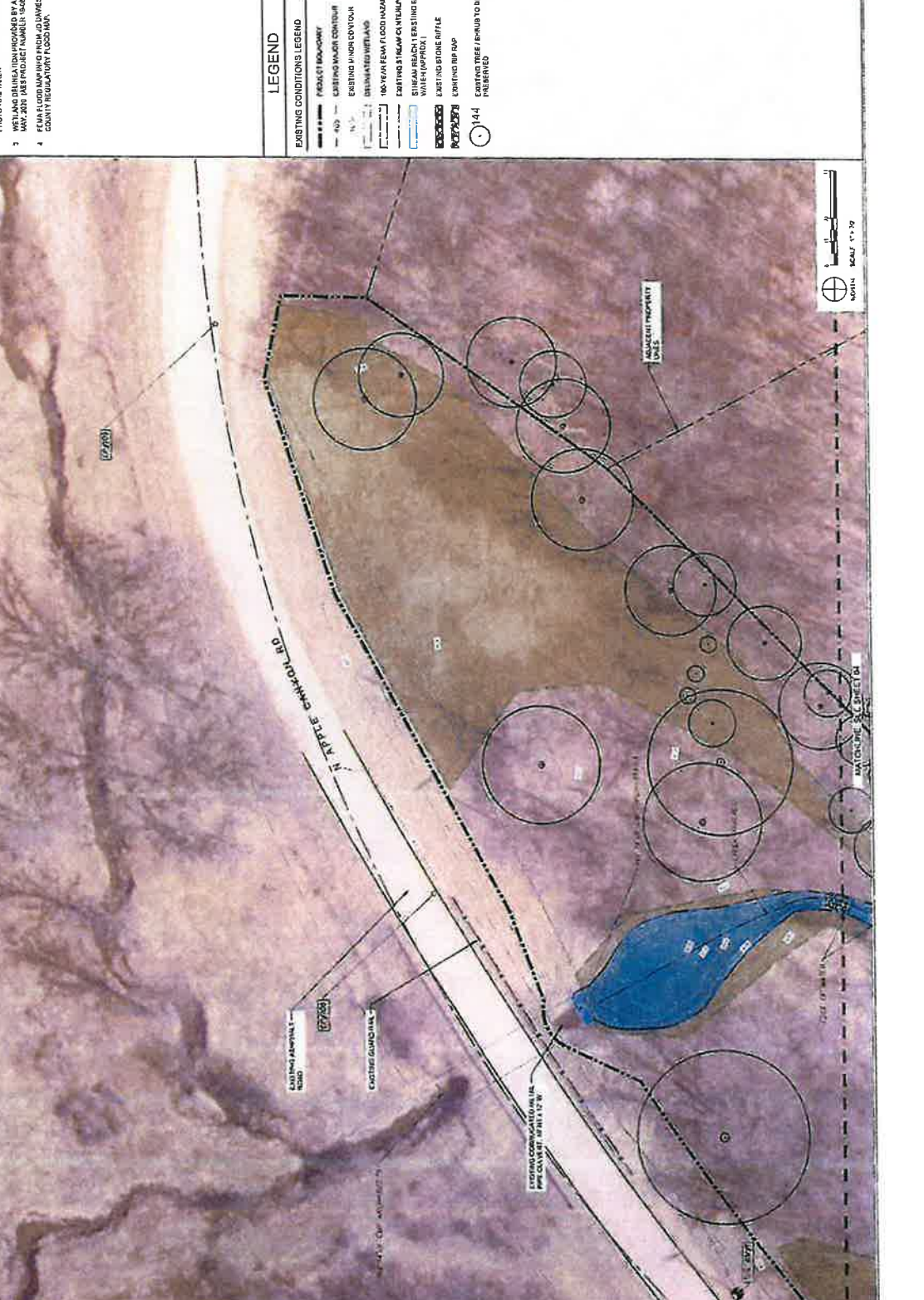
**SHEET NOTES**

1. THIS DRAWING AND CONTIGUOUS DRAWINGS INDICATED BY REFERENCE, FOR ADDITIONAL INFO, SEE DRAWING SHEET NO. 01 AND 02. THESE SHEETS CONTAIN THE MAIN PLAN AND SECTION DRAWINGS. FOR THE LATEST REVISIONS, SEE THE REVISION LOG AND CONSTRUCTION LOG.
2. AERIAL PHOTO SOURCE: JO HANVERS COUNTY, DATE: 05/11/11. LOCATION: IDENTIFIED SOURCE, ACTUAL FLOOD MAP DATE.
3. WEST AND EAST BANKS IDENTIFIED BY AS5 MAY 2010. (SEE PROJECT NUMBER: 04023)
4. FEMA FLOOD HAZARD FROM JO HANVERS COUNTY REGULATORY FLOOD MAP.

**LEGEND**

EXISTING CONDITIONS LEGEND

- PROJECT BOUNDARY
- EXISTING AND/OR CONDUIT
- EXISTING P-I-POR CONTOUR
- DEGRADED CHANNEL
- NO YEAR FEMA FLOOD HAZARD ZONE
- EXISTING STREAM CHANNEL
- EXISTING CHANNEL EXISTING EDGE OR WIDE (APPROX)
- EXISTING POLE OFFICE
- EXISTING SP-300
- EXISTING TREE / REMAIN TO BE PRESERVED



DATE: 01/20/17

SCALE: 1" = 100'



# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	REVISED	DATE	BY	DESCRIPTION
1		08/27/2018	JL	ISSUED FOR PERMITS
2		09/10/2018	JL	REVISED TO ADD 10' BUFFER TO EXISTING STREAM CENTERLINE
3		09/10/2018	JL	REVISED TO ADD 10' BUFFER TO EXISTING STREAM CENTERLINE
4		09/10/2018	JL	REVISED TO ADD 10' BUFFER TO EXISTING STREAM CENTERLINE

**FINAL FOR PERMITTING**

DATE: 8/27/2018

**EXISTING CONDITIONS**

Sheet 04 of 04

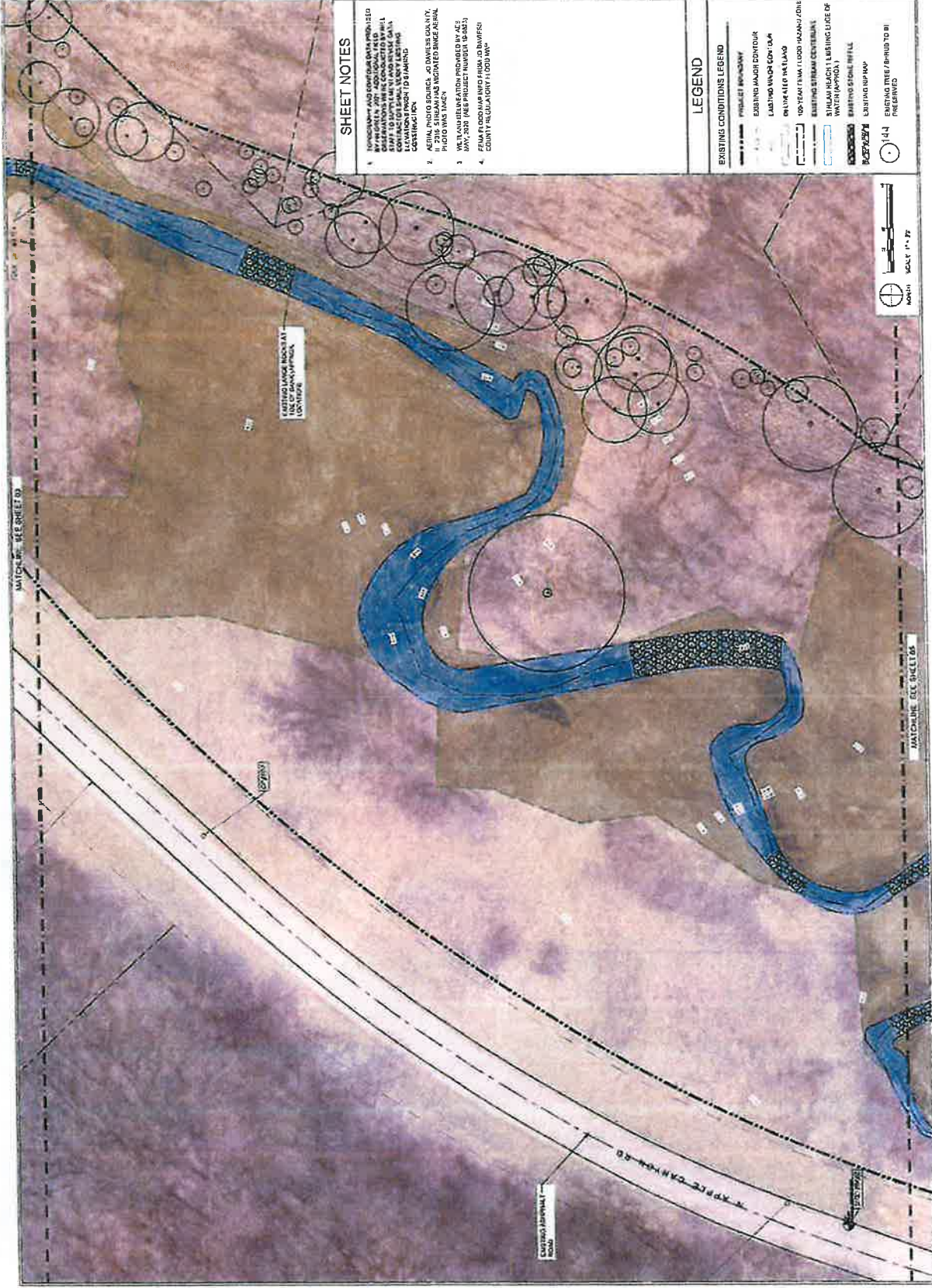
**SHEET NOTES**

1. TOPOGRAPHY AND CONTIGUOUS DATA PROVIDED BY PROPERTY OWNER. ADDITIONAL FIELD SURVEY DATA WAS OBTAINED FOR THE PROJECT TO VERIFY THE EXISTING STREAM CENTERLINE AND BUFFER ZONE.
2. AERIAL PHOTO SOURCE: JO DAVIS COUNTY, FL. 2016 AIRPHOTO HAS MOUNTAIN RANGE AERIAL PHOTO HIS INDEX.
3. ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED.
4. FEMA FLOOD HAZARD STUDY (JO DAVIS COUNTY REGULATION 11.000.04).

**LEGEND**

**EXISTING CONDITIONS LEGEND**

- PROJECT BOUNDARY
- EXISTING MAJOR CONDUIT
- EXISTING MINOR CONDUIT
- EXISTING WINDY CONDUIT
- ON-LINE RIVER WETLAND
- 100-YEAR FLOOD HAZARD ZONE
- EXISTING STREAM CENTERLINE
- EXISTING STREAM CENTERLINE BUFFER ZONE
- EXISTING STONE WEIR
- EXISTING RIP RAP
- EXISTING TREE/SHRUB TO BE PRESERVED







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 11220 S. 28th Street, Suite 100  
 Phoenix, AZ 85048  
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# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	REVISION	DATE
1	ISSUED FOR PERMITTING	05/11/11

SCALE FOR PERMITTING  
 EXISTING  
 CONDITIONS  
 05

### SHEET NOTES

1. PHOTOGRAPHY AND CONTIGUOUS SHEETS TO BE REFERENCED TO THE PROJECT TO OBTAIN A COMPLETE UNDERSTANDING OF THE PROJECT AREA AND TO VERIFY THE ACCURACY OF THE DATA. THE PROJECT AREA IS LOCATED IN THE WINCHESTER BAY RESTORATION AREA.
2. AERIAL PHOTOGRAPHS, AIRBORNE PHOTOGRAMMETRY, AND GROUND SURVEY DATA WERE USED TO DEVELOP THIS PLAN. THE DATA IS BASED ON THE 2008 DATUM.
3. THE PLAN IS BASED ON THE 2008 DATUM. THE ELEVATION OF THE STREAM CENTERLINE IS 1025.00 FEET.
4. THE PLAN IS BASED ON THE 2008 DATUM. THE ELEVATION OF THE STREAM CENTERLINE IS 1025.00 FEET.

### LEGEND

EXISTING CONDITIONS LEGEND

- PROJECT BOUNDARY
- EXISTING MAJOR CHANNEL
- EXISTING MINOR CHANNEL
- EXISTING WETLAND
- EXISTING FLOODPLAIN
- EXISTING STREAM CENTERLINE
- EXISTING STREAM CENTERLINE OF WINCHESTER BAY
- EXISTING SHORELINE
- EXISTING ROAD
- EXISTING UTILITY



MATCHLINE SEE SHEET 04  
 MATCHLINE SEE SHEET 06



# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project Name: Winchester Bay Stream Reach 1 Restoration  
 Date: April 18, 2017

NO.	DESCRIPTION	DATE	BY
1	Issue for Permitting	4/18/17	[Signature]

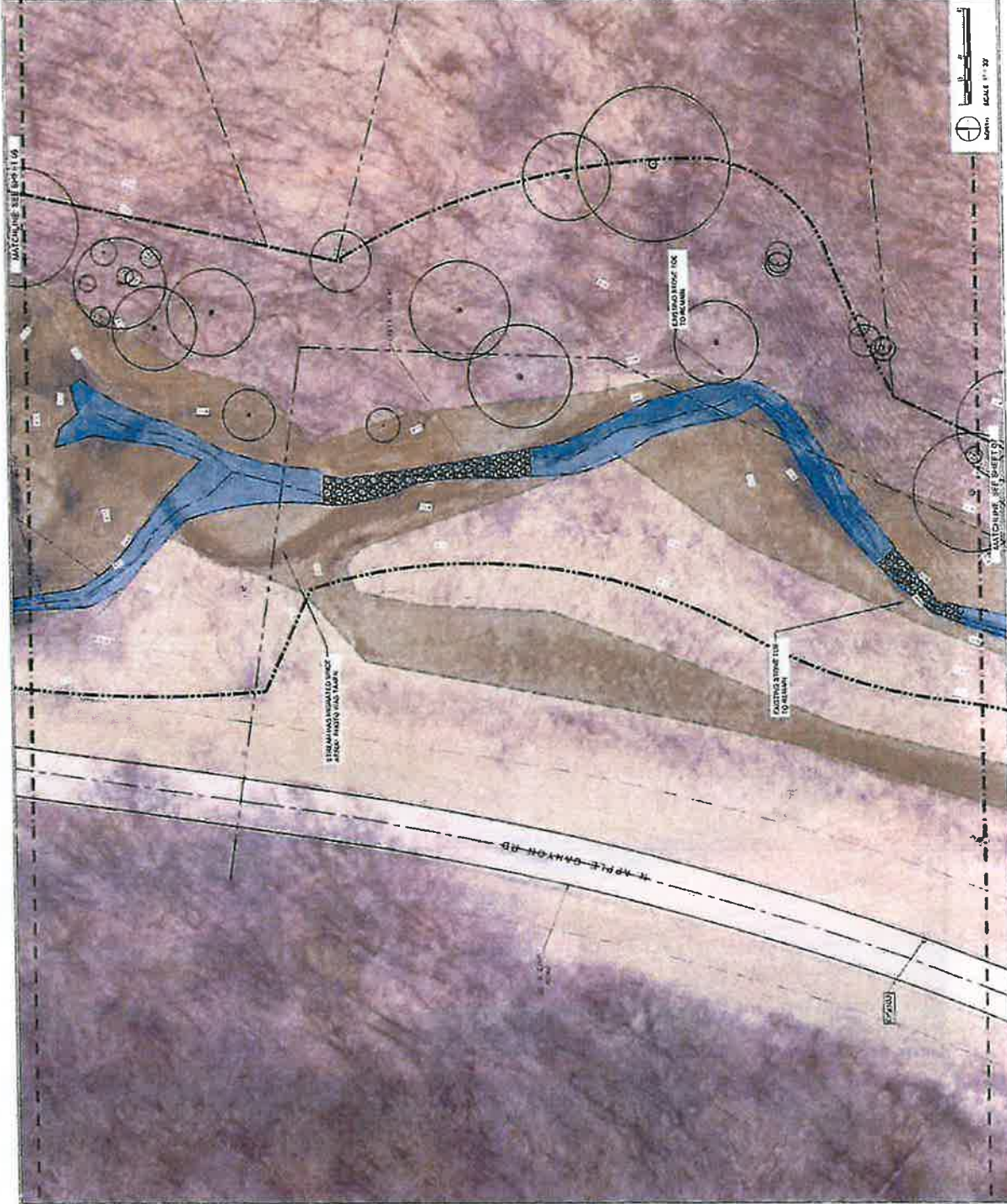
DATE: 4/18/17  
 EXISTING CONDITIONS  
 SHEET NUMBER 06

- ### SHEET NOTES
1. TOPOGRAPHY AND CONTIGUOUS WETLANDS ARE SHOWN AS EXISTING CONDITIONS. ALL RESTORATION WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS SET FORTH IN THE DESIGN MANUAL. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL AND THE DESIGN MANUAL SHALL BE USED TO DETERMINE THE LOCATION OF ALL RESTORATION WORK.
  2. AERIAL PHOTO SHOWS THAT WINCHESTER BAY STREAM HAS BEEN DAMAGED BY A FIRE IN 2014. THE FIRE HAS CAUSED THE STREAM TO BECOME A DRAINAGE CANAL FOR THE WETLANDS. THE STREAM HAS BEEN DAMAGED BY THE FIRE AND THE WETLANDS HAVE BEEN DESTROYED. THE STREAM HAS BEEN DAMAGED BY THE FIRE AND THE WETLANDS HAVE BEEN DESTROYED. THE STREAM HAS BEEN DAMAGED BY THE FIRE AND THE WETLANDS HAVE BEEN DESTROYED.
  3. THE DESIGN MANUAL PROVIDES THE DESIGN AND CONSTRUCTION STANDARDS FOR THE RESTORATION WORK. THE DESIGN MANUAL SHALL BE USED TO DETERMINE THE LOCATION OF ALL RESTORATION WORK.
  4. THE DESIGN MANUAL PROVIDES THE DESIGN AND CONSTRUCTION STANDARDS FOR THE RESTORATION WORK. THE DESIGN MANUAL SHALL BE USED TO DETERMINE THE LOCATION OF ALL RESTORATION WORK.

### LEGEND

**EXISTING CONDITIONS LEGEND**

- PROJECT BOUNDARY
- EXISTING WETLAND BOUNDARY
- EXISTING WETLAND
- DESIGNED WETLAND
- 100 YEAR FLOOD FLOOD HAZARD ZONE
- EXISTING 8 FOOT CENTERLINE
- EXISTING 3 FOOT FLOOD TOLERANCE OF WETLANDS
- EXISTING STONE BATTLE
- EXISTING SIGN
- EXISTING TREE 1-4 INCH DBH
- PRESENTED



MATCHLINE SEE SHEET 05  
 MATCHLINE SEE SHEET 07  
 SCALE 1" = 20'  
 NORTH





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 1000 North Central Expressway, Suite 100  
 Appleton, WI 54912  
 Phone: 920.833.1111  
 Fax: 920.833.1112  
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# WINCHESTER BAY STREAM REACH 1 RESTORATION

E North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	DATE	DESCRIPTION
1	08/14/13	PROJECT INITIATION
2	09/10/13	FIELD SURVEY
3	10/01/13	DESIGN DEVELOPMENT
4	11/01/13	FINAL DESIGN
5	12/01/13	CONSTRUCTION

**RISK FOR PROTECTING**

EXISTING  
 CONDITIONS

07

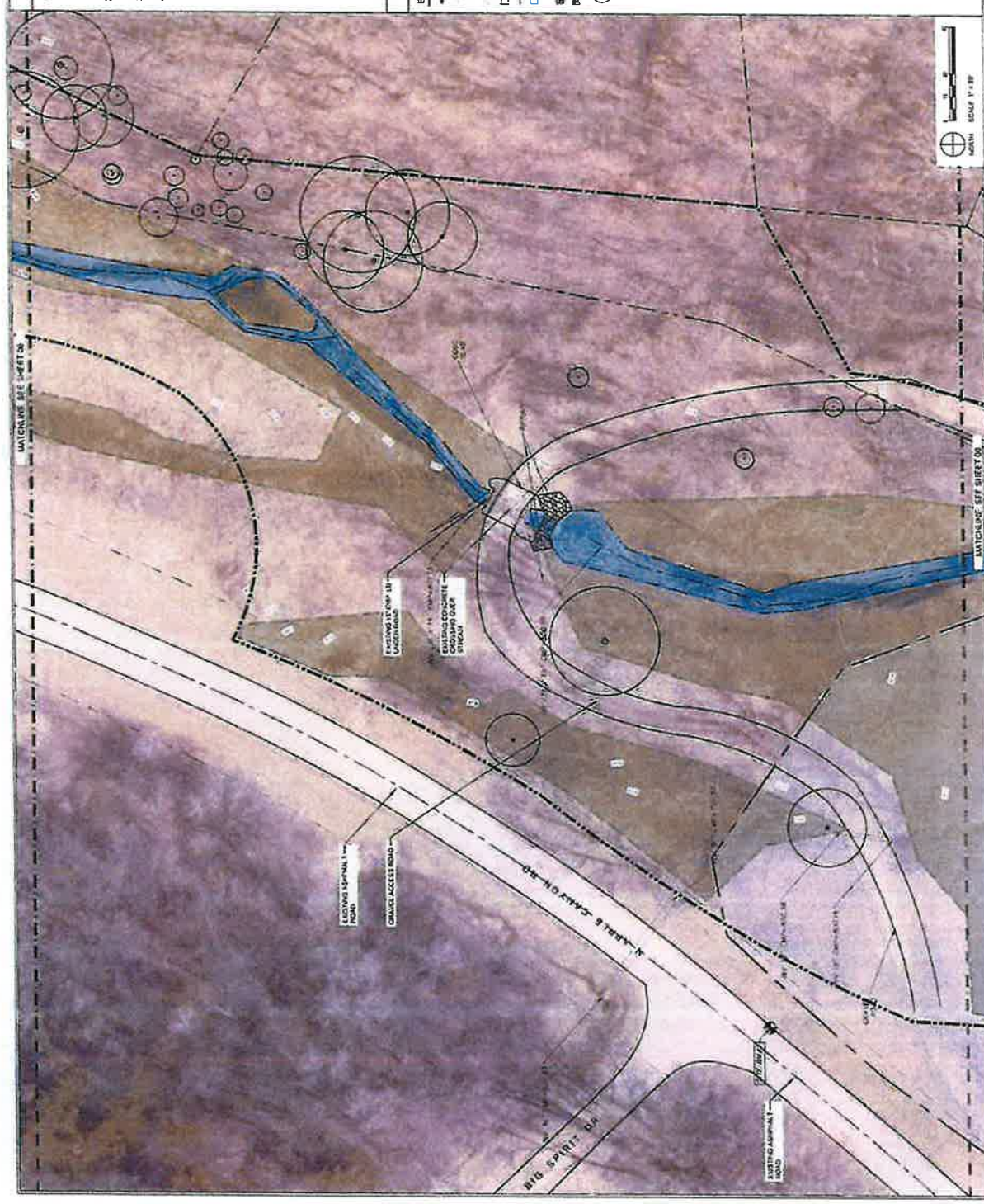
**SHEET NOTES**

1. TOPOGRAPHY AND CONTIGUOUS PROPERTY PROVIDED BY THE CLIENT. ADDITIONAL FIELD SURVEY DATA WILL BE REQUIRED TO VERIFY EXISTING CONDITIONS AND TO DETERMINE THE EXACT LOCATION OF STREAM CHANNELS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS CONSTRUCTION CODE.
3. WETLAND Delineation PROVIDED BY ALES FROM 08/14/13.
4. FEMA FLOOD MAPING FROM OLD DIVERSITY COUNTY REGULATORY FLOOD ZONE.

**LEGEND**

EXISTING CONDITIONS LEGEND

- PROJECT PROPERTY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- DEVELOPED WETLAND
- 10-YEAR FLOOD HAZARD ZONE
- EXISTING STREAM CENTERLINE
- STREAM REACH 1 EXISTING EDGE OF WATERSHED (APPROX)
- EXISTING STONE WALL
- EXISTING DIRT ROAD
- EXISTING TREE / SHRUB TO BE PRESERVED



MATCHLINE SEE SHEET 06

MATCHLINE SEE SHEET 08









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 Fax: 954.576.1112  
 Email: info@res.com

# WINCHESTER BAY STREAM REACH 1 RESTORATION

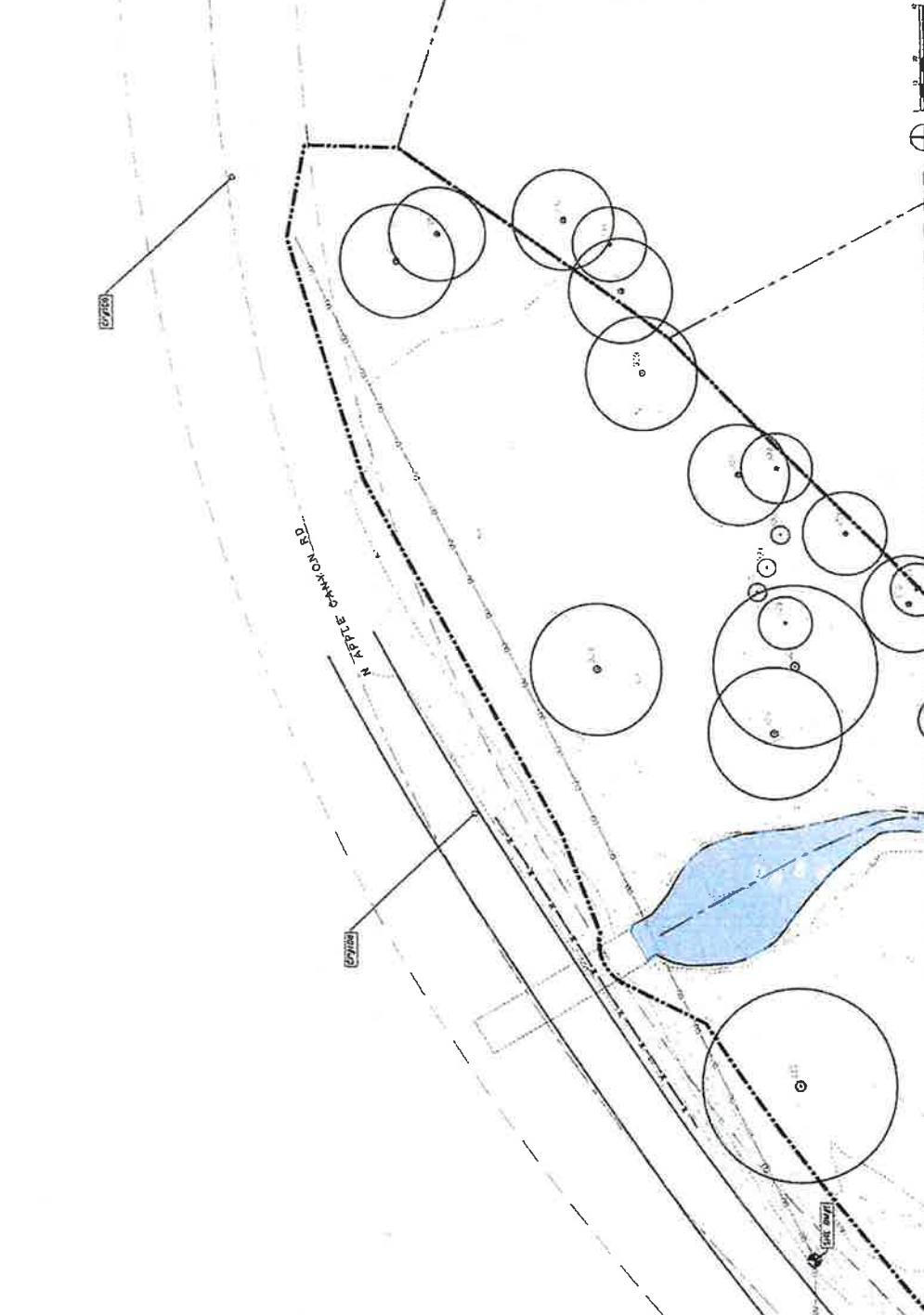
E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project No.	10000000000000000000
Client	FL Dept. of Transportation
Contract No.	10000000000000000000
Contract Title	10000000000000000000
Contract Location	10000000000000000000
Contract Dates	10000000000000000000
Contract Status	10000000000000000000
Contract Value	10000000000000000000
Contract Description	10000000000000000000
Contract Reference	10000000000000000000
Contract Agency	10000000000000000000
Contract Manager	10000000000000000000
Contract Engineer	10000000000000000000
Contract Designer	10000000000000000000
Contract Checker	10000000000000000000
Contract Approver	10000000000000000000
Contract Date	10000000000000000000
Contract Revision	10000000000000000000

DATE: 10/11/2011  
 DRAWN BY: J. B. [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]  
 PROJECT NO.: 10000000000000000000

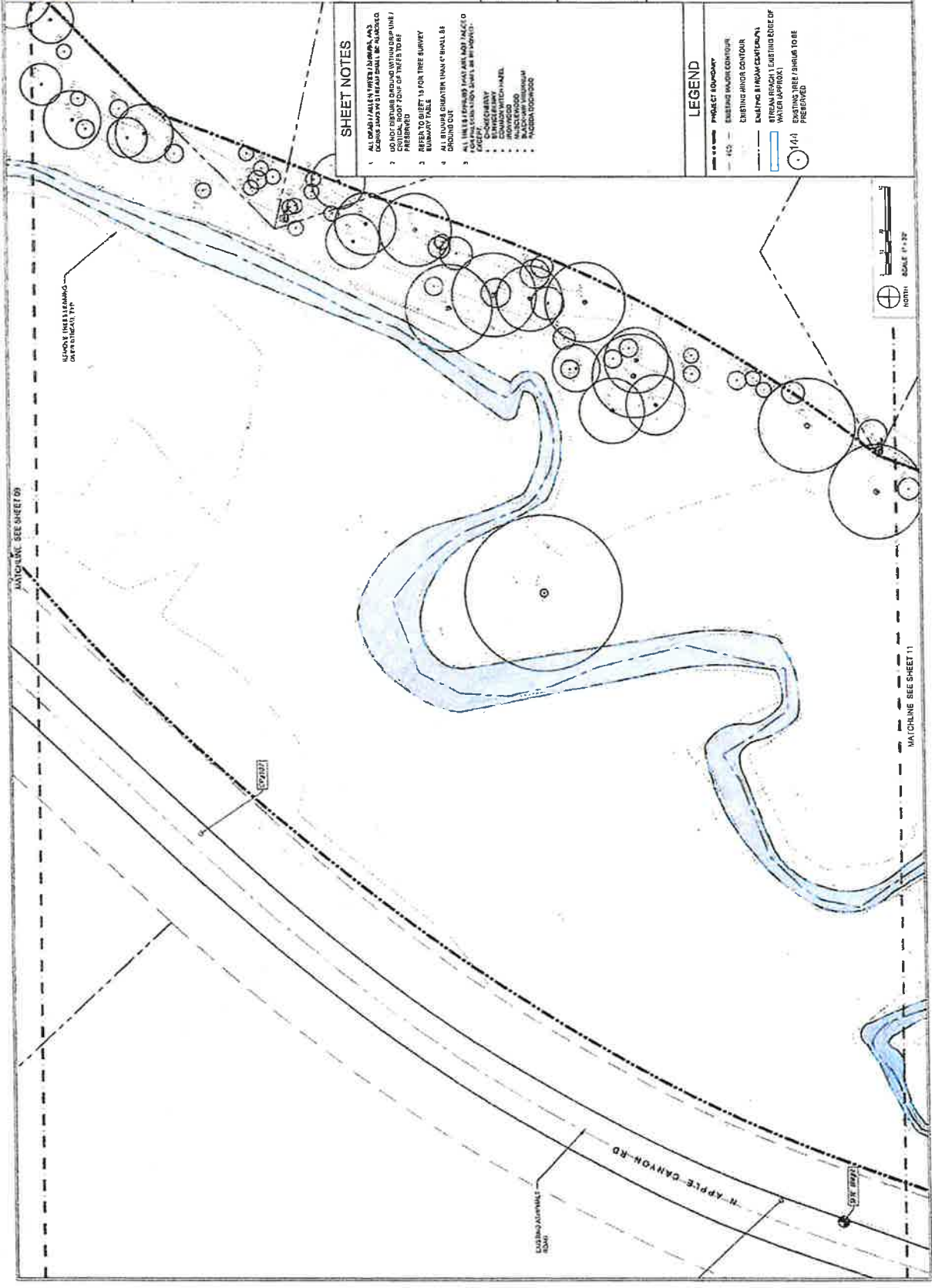
- ### SHEET NOTES
1. ALL DEAD OR Dying TREES SHALL BE REMOVED AND DEBRIS SHALL BE REMOVED FROM THE STREAM CHANNEL AND ADJACENT AREAS.
  2. DO NOT RESTORE OR BURN WITHIN THE CHANNEL OR ADJACENT AREAS.
  3. REFER TO SHEET 10 FOR TREE SURVEY DATA.
  4. ALL STUMP QUANTITIES SHALL BE SMALL IN QUANTITY.
  5. ALL TREES TO BE REMOVED SHALL BE IDENTIFIED BY TAGS AND SHALL BE IDENTIFIED BY TAGS.
  6. ALL TREES TO BE REMOVED SHALL BE IDENTIFIED BY TAGS AND SHALL BE IDENTIFIED BY TAGS.

- ### LEGEND
- EXISTING MAJOR CONTOUR
  - EXISTING WORK CONTOUR
  - LAND FOR STREAM DELIVER THE
  - STREAM REACH 1 EXISTING EDGE OF WATER (APPROX)
  - EXISTING TREE / SHUR TO BE PRESERVED



SCALE: 1" = 20'  
 NORTH  
 DATE: 10/11/2011  
 DRAWN BY: J. B. [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]  
 PROJECT NO.: 10000000000000000000

NO.	DATE	DESCRIPTION
1	10/15/10	ISSUED FOR PERMITTING



**SHEET NOTES**

1. ALL DEAD/ALLEN TREES (ARMS, AND LIMBS) SHALL BE REMOVED.
2. ALL TREES TO BE REMOVED SHALL BE NUMBERED AND MARKED WITH A DUMP LINE / PRESERVED.
3. REFER TO QUOTE 15 FOR TREE SURVEY SUMMARY TABLE.
4. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
5. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
6. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
7. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
8. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
9. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.
10. ALL TREES GREATER THAN 4" SHALL BE DUMPED OUT.

**LEGEND**

- PROJECT BOUNDARY
- EXISTING WADSWORTH CONTOUR
- EXISTING GRADE CONTOUR
- EXISTING STREAM CENTERLINE
- STREAM REACH 1 (EXISTING DUMP LINE / PRESERVED)
- EXISTING TREE / SHRUB TO BE PRESERVED







RES Environmental Engineering, Inc.  
 1405 E. Mountain View Road, Suite 111  
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**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project No.	1000000000
Client	Apple Canyon Lake Property Owners Association
Location	Apple Canyon Lake, IL
Scale	AS SHOWN
Drawn by	JAK
Checked by	JAK
Date	08/11/10
Contract No.	1000000000
Contract Description	WATER TREATMENT PLANT
Sheet No.	12
Total Sheets	12

**DATE:** 08/11/10  
**DATE PLOTTED:** 08/11/10  
**SCALE:** 1" = 20'  
**PROJECT:** WINCHESTER BAY  
**SHEET NO.:** 12

**SHEET NOTES**

1. ALL DEAD/DAUNTING TREES / BRUSH AND OTHER LIMBS IN SITE SHALL BE REMOVED
2. DO NOT DISTURB GROUND WITHIN ONE-LINE / TWO-LINE ROOT ZONE OF TREES TO BE PRESERVED
3. REFER TO SHEET 11 FOR TREE SURVEY SUMMARY TABLE
4. ALL TREES LARGER THAN 4" DBH @ 4.5' GROUND OUT.
5. ALL TREES / LIMBS THAT ARE NOT FACED BY THE RESTORATION SHALL BE REMOVED.

**PLANTING SPECIFICATIONS:**  
 CHOICEFRY  
 COMMON WITCH HAZEL  
 HICKORY  
 BLACKHAWK VIBURNUM  
 RED TWIG DOGWOOD

**LEGEND**

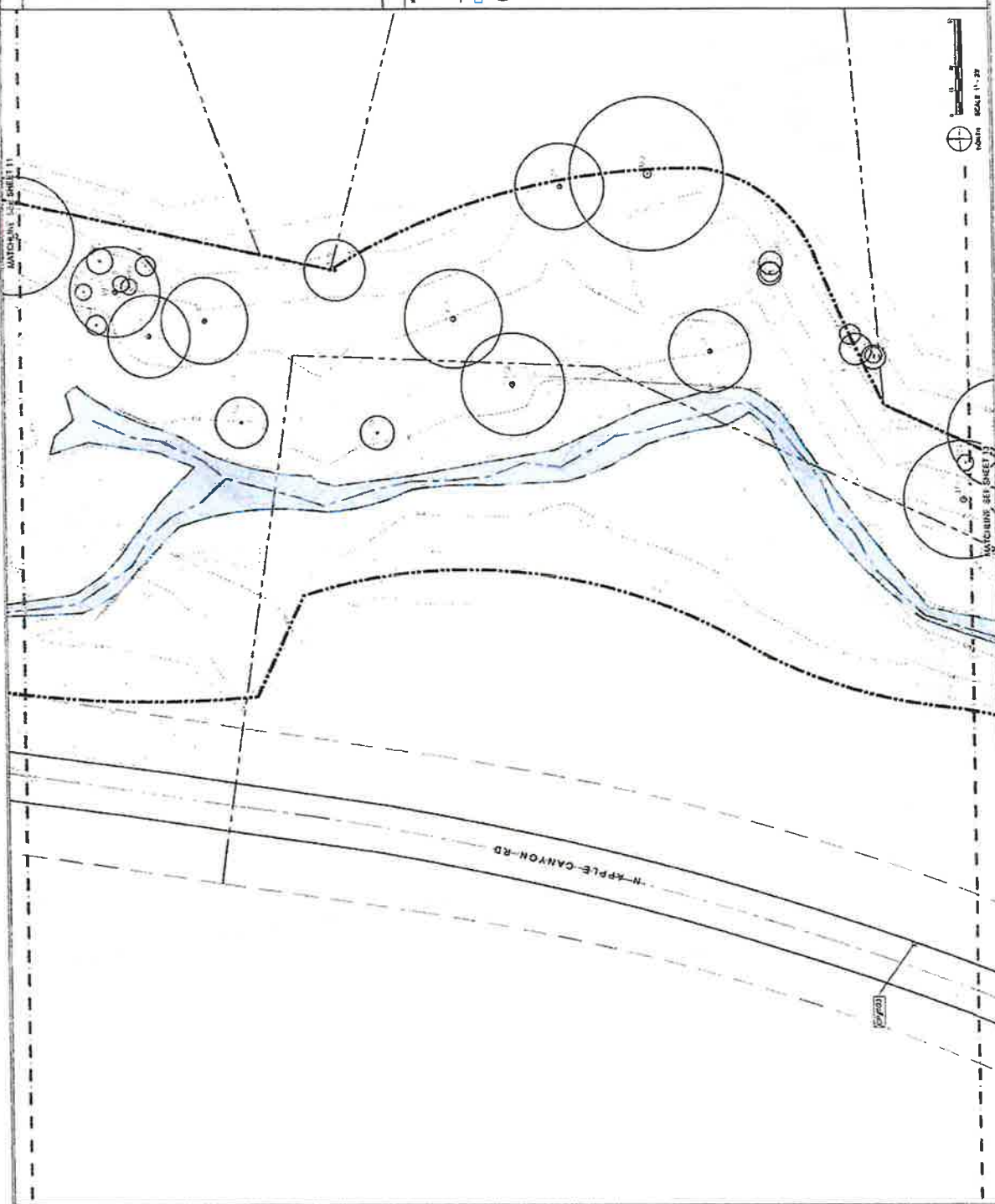
--- POLICEZ BOUNDARY

--- FUTURE WADONZ BOUNDARY

--- EXISTING WADONZ BOUNDARY

--- STREAM REACH 1 EXISTING DEBRIS OR WATER APPROX.

○ 1/4" CASINO TREE / SHrub TO BE PRESERVED





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# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

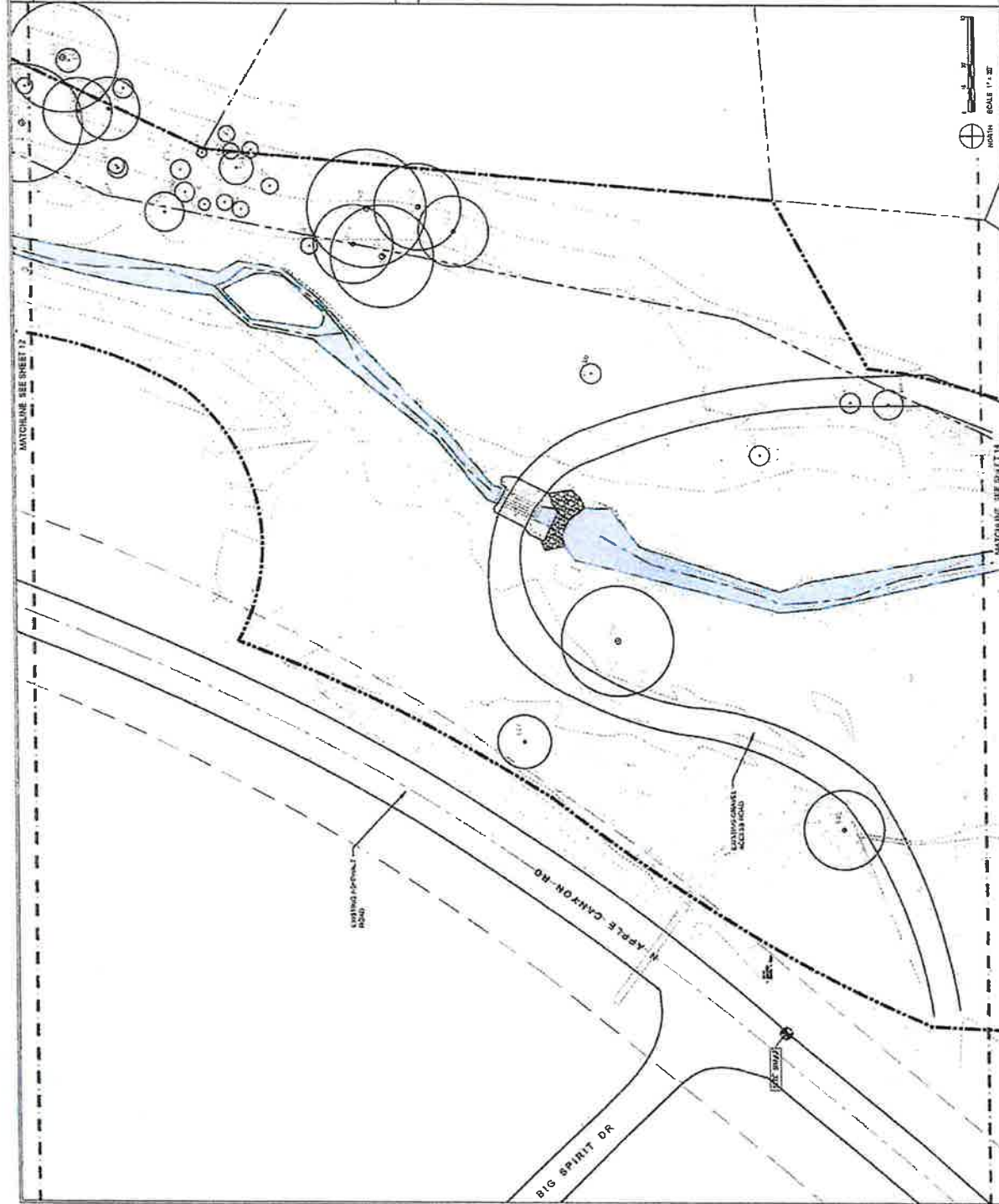
Apple Canyon Lake Property Owners Association  
 Appleton, WI 54912

NO.	DATE	DESCRIPTION
1	08/14/14	ISSUED FOR PERMITTING

DATE: 08/14/14  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 PROJECT NO.: [Number]  
 SHEET NO.: 13

- ### SHEET NOTES
1. ALL DEAD OR FALLING TREES/BRANCHES AND DEBRIS JAMS IN STREAM SHALL BE REMOVED PRIOR TO CONSTRUCTION.
  2. DO NOT DISTURB OR REMOVE ANY PLANTS OR TREES TO BE PRESERVED.
  3. ALL TREES TO BE REMOVED SHALL BE IDENTIFIED BY TAGS AND A TAG LIST SHALL BE SUBMITTED TO THE PERMITTING AGENCY.
  4. ALL STUMP REMOVAL SHALL BE COMPLETED WITHIN 30 DAYS OF THE END OF CONSTRUCTION.
  5. ALL TREES TO BE REMOVED SHALL BE IDENTIFIED BY TAGS AND A TAG LIST SHALL BE SUBMITTED TO THE PERMITTING AGENCY.

- ### LEGEND
- PROPOSED IMPROVEMENTS
  - EXISTING IMPROVEMENTS
  - EXISTING STREAM CENTERLINE
  - EXISTING STREAM EDGE OF WALKWAY
  - EXISTING STREAM EDGE OF WALKWAY (APPROX.)
  - 1444
  - EXISTING TREE (WHICH IS TO BE PRESERVED)



Apple Canyon Lake Property Owners Association  
 Appleton, WI 54912



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 1800 South Bascom Avenue, Suite 100  
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 www.resinc.com

# WINCHESTER BAY STREAM REACH 1 RESTORATION

El Norte Apple Canyon Rd downstream to Apple Canyon Lake, II

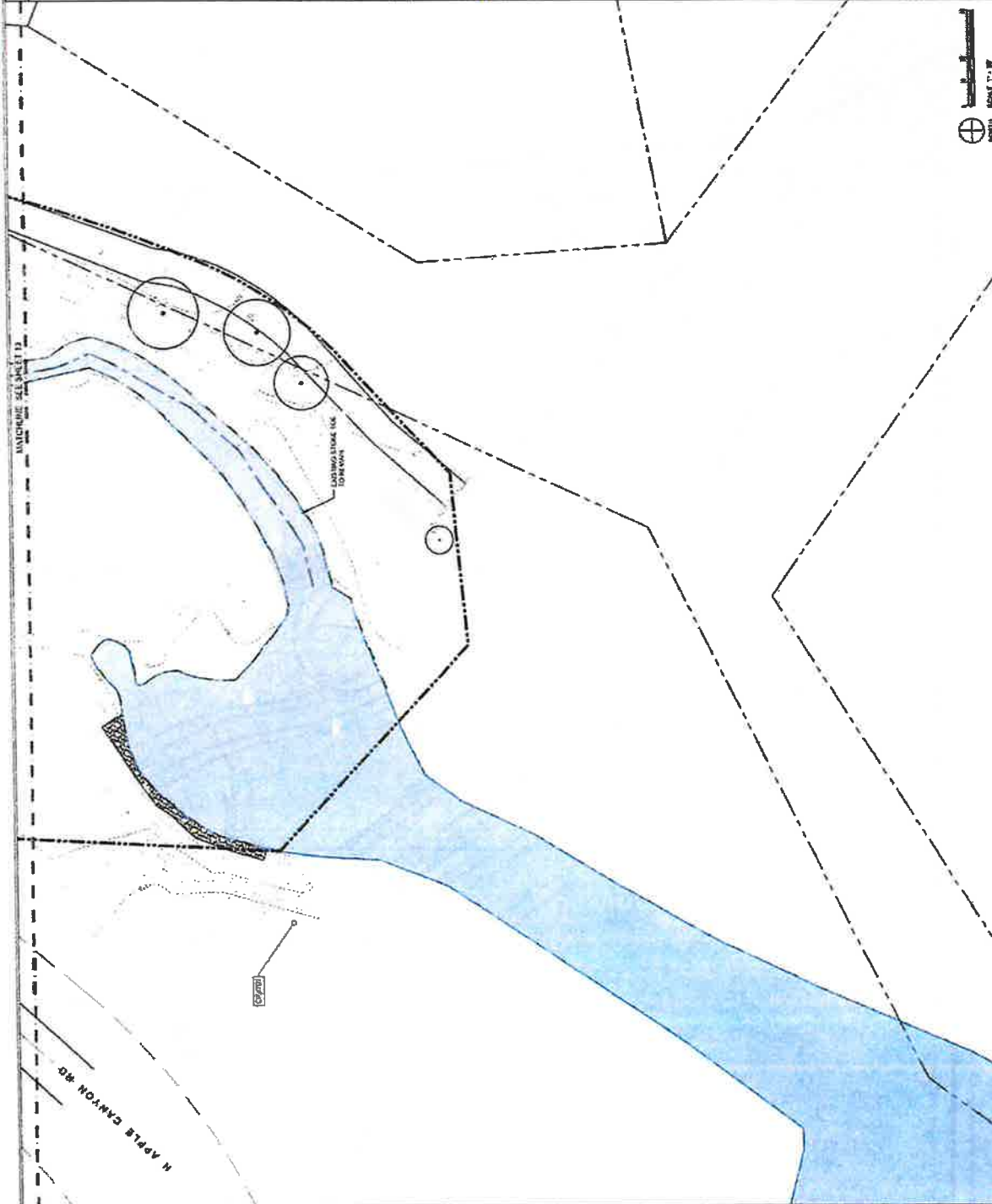
DATE: 10/18/11  
 DRAWN BY: JRM  
 CHECKED BY: JRM  
 CADD: 10/18/11

## SHEET NOTES

1. ALL OF CUTLINES SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE. ALL CUTLINES SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
2. EXISTING ROOT ZONE OF TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
3. ALL STUMP CHAIRS SHALL BE REMOVED AND BACKFILLED WITH SOIL.
4. ALL STUMP CHAIRS SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
5. ALL TREES TO BE REMOVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
6. ALL TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
7. ALL TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
8. ALL TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
9. ALL TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.
10. ALL TREES TO BE PRESERVED SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE.

## LEGEND

- PROJECT BOUNDARY
- EXISTING ROOT ZONE
- CUTLINE
- EXISTING STREAM CHANNEL
- STREAM REACH 1 RESTORATION
- EXISTING BANK / STUMP TO BE PRESERVED



North Arrow  
 Scale: 1" = 50'







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 10000 N. 19th Ave, Suite 100  
 Denver, CO 80202  
 Phone: 303.755.1000  
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 Email: info@res.com

# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITTING	5/14/20	RES

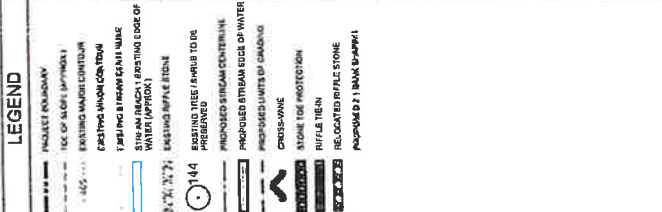
DATE: 5/14/20  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 PROJECT NO: [Number]  
 SHEET NO: 16

**SHEET NOTES**

1. THE PROPOSED RESTORATION DATA PROVIDED BY THE CLIENT. ADDITIONAL FIELD OBSERVATIONS SHALL BE CONDUCTED TO VERIFY THE ACCURACY OF THE DATA. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. STREAM NOTES:  
 a. BANK FULL ELEVATION (BFE) IS 8' ABOVE THE STREAM CENTERLINE (SCL) WITH A WETTED WIDTH AVERAGE OF 12' WIDE.  
 b. CHANNEL BOUNDS:  
 i. THE CHANNEL BOUNDS SHOWN ON THIS PLAN ARE BASED ON THE BFE AND THE CHANNEL CENTERLINE (CCL).  
 ii. THE CHANNEL BOUNDS SHALL BE MAINTAINED TO THE STREAM CENTERLINE AND SHALL NOT BE WIDENED OR NARROWED.  
 iii. ANY CHANNEL BOUNDS CHANGES SHALL BE APPROVED BY THE CLIENT.
3. ROCK PROTECTION TO HAVE 1' ABOVE THE STREAM CENTERLINE (SCL) AND SHALL BE PRESERVED.
4. MINIMUM GRADING AROUND CASING TIE INS TO BE PRESERVED.

**LEGEND**

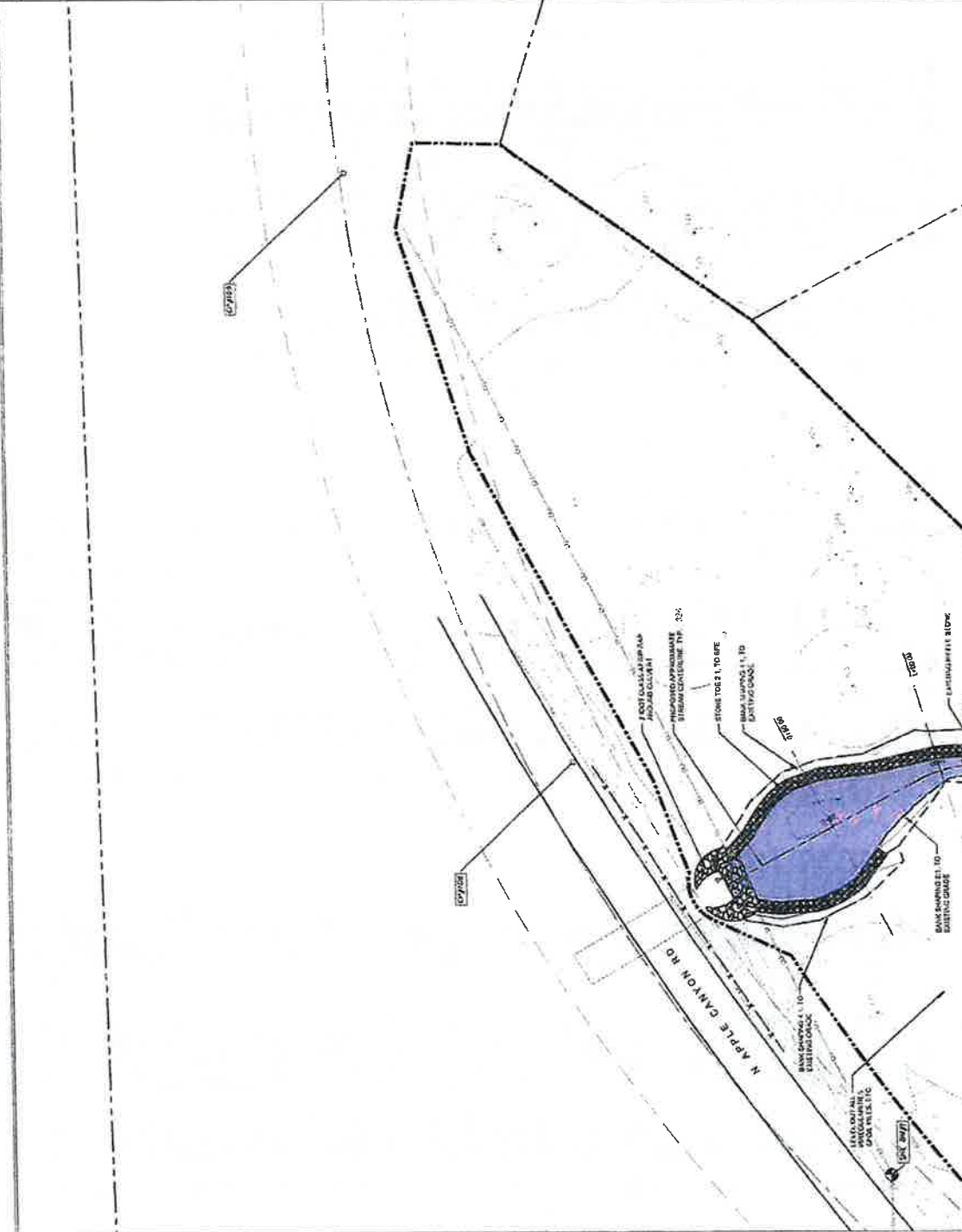
- PROJECT BOUNDARY
- EDGE OF ASPH/PAVEMENT
- EXISTING CHANNEL CENTERLINE
- EXISTING CHANNEL BOUNDS
- EXISTING BANK PROTECTION
- EXISTING STREAM CENTERLINE
- EXISTING STREAM BOUNDS
- PROPOSED STREAM CENTERLINE
- PROPOSED STREAM BOUNDS
- PROPOSED LIMITS OF GRADING
- CROSS-WALK
- STONE TOE PROTECTION
- RUFFLE TIEN
- RELOCATED APPLE TREE
- PROPOSED 1 BANK (BANK#1)



**SCALE 1" = 20'**

**NORTH**

DATE: 5/14/20



**SCALE 1" = 20'**

**NORTH**

DATE: 5/14/20

PROJECT NO: [Number]

SHEET NO: 16



## WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

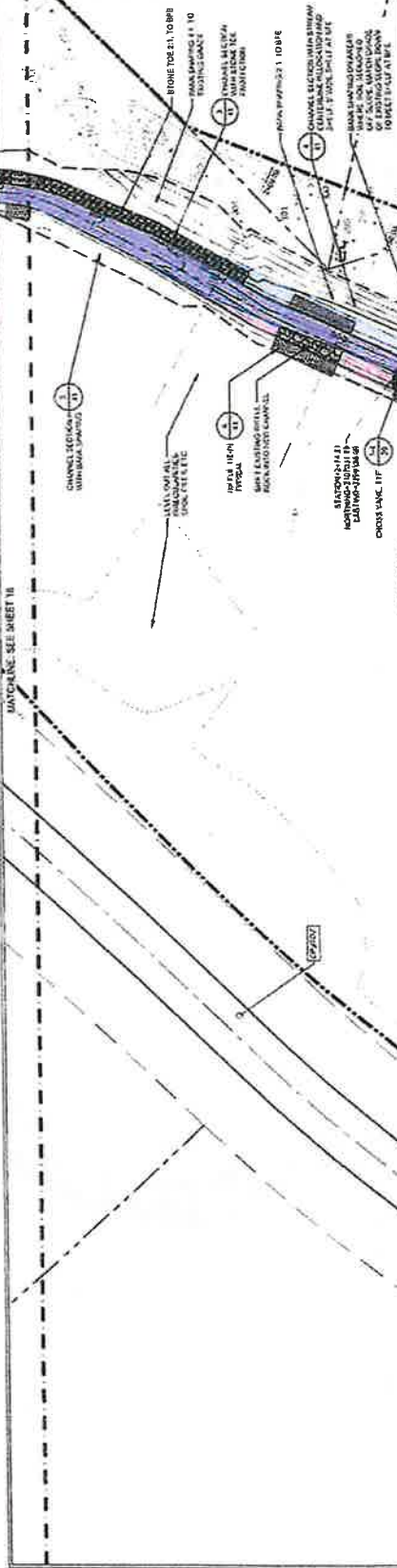
NO.	DATE	BY	REVISION
1	07/2017	RES	ISSUE FOR PERMITTING

### GRADING & LAYOUT

SHEET TITLE

SHEET NUMBER

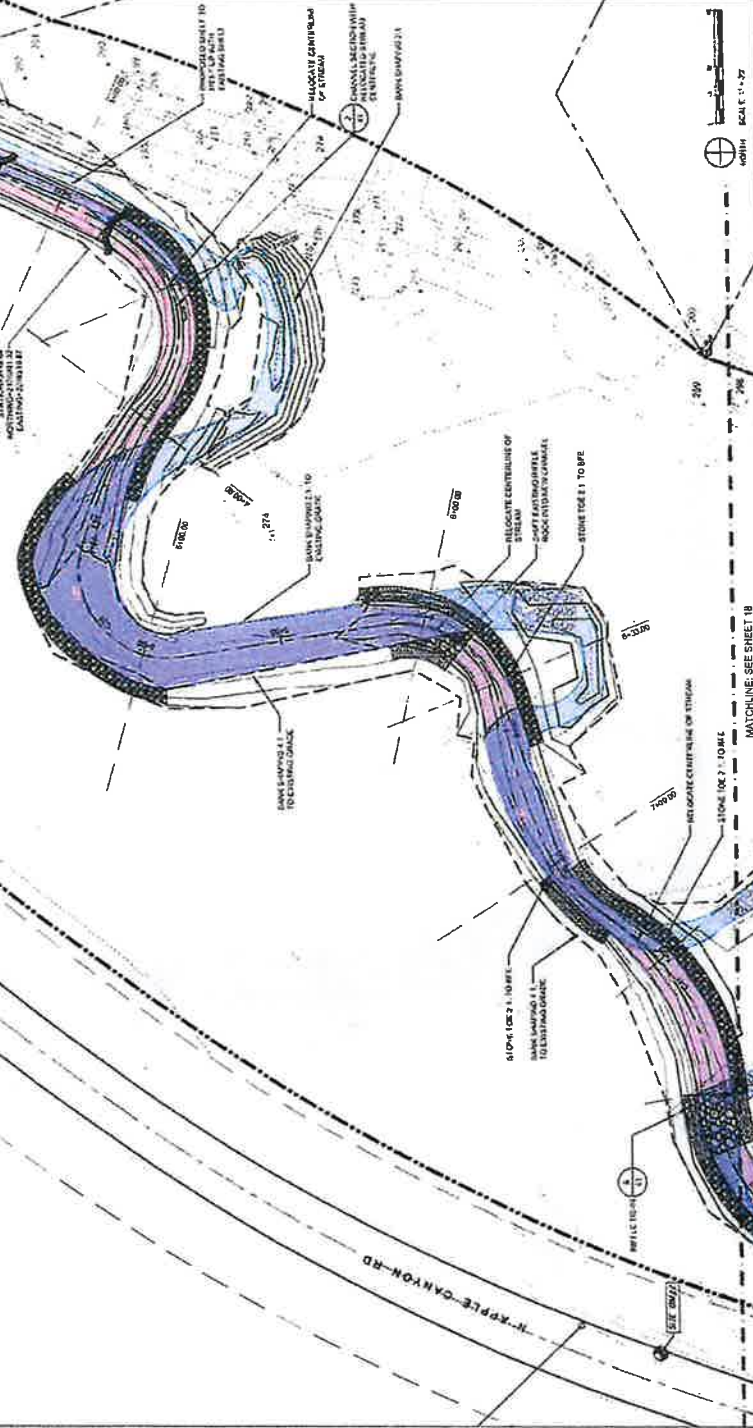
17



- #### SHEET NOTES
1. TRACKING AND CENTER LINE DATA ACQUIRED BY SURVEY. NOT ADDITIONAL FIELD OBSERVATIONS WERE CONDUCTED AT THE CONTRACTOR'S RISK. VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
  2. STREAM WIDTHS: BANKFACE VELOCITY (FEET) IS 1.5X ABOVE AVERAGE STREAM VELOCITY OF 27 MPH. WETTED WIDTH (MEANS) IS 15' WIDE.
  3. CHANNEL SECTION WITH PROPOSED STONE PROTECTION (DO NOT REMOVE STONE) TO MAINTAIN PROTECTION DOWNSLOPE TO BANKS TO PREVENT EROSION AND TO MAINTAIN PROPER SLOPE AND TO MAINTAIN PROPER PROTECTION TO THE STREAM AS WELL AS TO MAINTAIN PROPER PROTECTION TO THE STREAM CHANNEL. THE CHANNEL IS TO BE RELOCATED TO THE EXISTING CHANNEL.
  4. STONE TREE PROTECTION TO MAINTAIN VEGETATION.
  5. MAINTAIN SLOPE.
  6. MINIMIZE GRADING AROUND EXISTING TREES TO BE PRESERVED.

#### LEGEND

- PROJECT BOUNDARY
- TOE OF SLURP (APPROX)
- EXISTING MINOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STREAM CENTERLINE
- PROPOSED CHANNEL CENTERLINE OF WATER (APPROX)
- EXISTING TRIFURCATION STONE
- EXISTING TREE (HURD) TO BE PRESERVED
- PROPOSED STREAM EDGE OF WATER
- PROPOSED LIMITS OF GRADING
- CROSS-VALE
- STONE TREE PROTECTION
- REFLECTOR
- RELOCATED REFLECTOR
- PROPOSED 7 BANK SHAPING



MATCHLINE SEE SHEET 18

MATCHLINE SEE SHEET 18

SCALE: 1" = 20'







1815 E. 11th Street, Suite 100, Lincoln, NE 68502  
 402.441.1111  
 www.resinc.com

**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 E. North Apple Canyon Rd downstream to Apple Canyon Lakes, IL

Project No.	1815-11-1111
Client	Apple Canyon Lakes Property Owners Association
Scale	1" = 40'
Drawn By	JW
Checked By	JW
Approved By	JW
Date	11/11/11

**FINAL FOR PERMITTING**

**GRADING & LAYOUT**

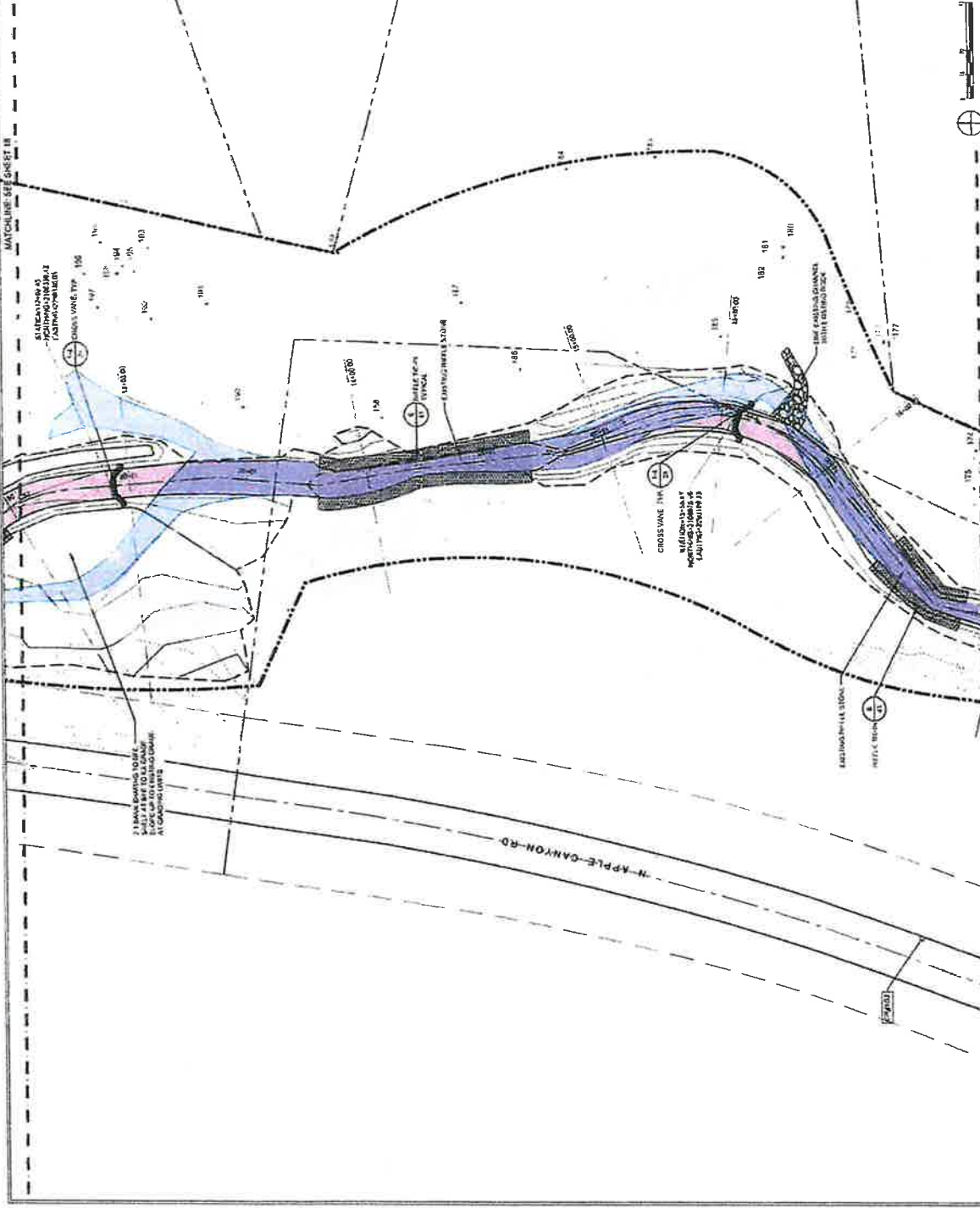
19

**SHEET NOTES**

1. TOPOGRAPHY AND CONTIGUA DATA PROVIDED BY THE CLIENT. ALL DATA WAS CHECKED BY THE DESIGNER. FIELD SURVEY DATA WAS OBTAINED BY THE DESIGNER. FIELD SURVEY DATA WAS OBTAINED BY THE DESIGNER. FIELD SURVEY DATA WAS OBTAINED BY THE DESIGNER.
2. STREAM CENTERLINE ELEVATION (BERT) = 24' ABOVE MEAN SEA LEVEL (MSL). ALL ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL EXISTING AND PROPOSED STONE AND CONCRETE STRUCTURES SHALL BE CONSTRUCTED TO MEET THE FOLLOWING REQUIREMENTS:
  - a. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" REINFORCING BARS.
  - b. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" REINFORCING BARS.
  - c. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" REINFORCING BARS.
4. SOILS ARE CLASSIFIED AS TYPE 1.
5. USUALLY GRASSING AND/OR SEEDING TREES TO BE PRESERVED.

**LEGEND**

- PROJECT BOUNDARY
- 100' SPACING (APPROX)
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STREAM CENTERLINE
- PROPOSED STREAM CENTERLINE
- PROPOSED 10' WIDE BUFFER
- PROPOSED 20' WIDE BUFFER
- PROPOSED 30' WIDE BUFFER
- PROPOSED 40' WIDE BUFFER
- PROPOSED 50' WIDE BUFFER
- PROPOSED 60' WIDE BUFFER
- PROPOSED 70' WIDE BUFFER
- PROPOSED 80' WIDE BUFFER
- PROPOSED 90' WIDE BUFFER
- PROPOSED 100' WIDE BUFFER
- PROPOSED 110' WIDE BUFFER
- PROPOSED 120' WIDE BUFFER
- PROPOSED 130' WIDE BUFFER
- PROPOSED 140' WIDE BUFFER
- PROPOSED 150' WIDE BUFFER
- PROPOSED 160' WIDE BUFFER
- PROPOSED 170' WIDE BUFFER
- PROPOSED 180' WIDE BUFFER
- PROPOSED 190' WIDE BUFFER
- PROPOSED 200' WIDE BUFFER



MATCHLINE SEE SHEET 18  
 MATCHLINE SEE SHEET 20

SCALE 1" = 40'

11/11/11



# WINCHESTER BAY STREAM REACH 1 RESTORATION

IN North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project No.	2014-001
Client	Apple Canyon Lake Property Owners Association
Scale	AS SHOWN
Date	08/14/14
Drawn by	[Signature]
Checked by	[Signature]
Approved by	[Signature]

DATE FOR PERMITTING

EXTENT

GRADING & LAYOUT

EAST NUMBER 20

**SHEET NOTES**

1. TOPOGRAPHY AND CONTIGUA DATA PROVIDED BY THE CLIENT. ADDITIONAL FIELD SURVEY DATA WILL BE PROVIDED AS NECESSARY TO START TO SUPPLEMENT AND FILL DATA GAPS. CONTRACTOR SHALL VERIFY ALL DATA FOR ACCURACY PRIOR TO CONSTRUCTION.

2. **STREAM NOTES**

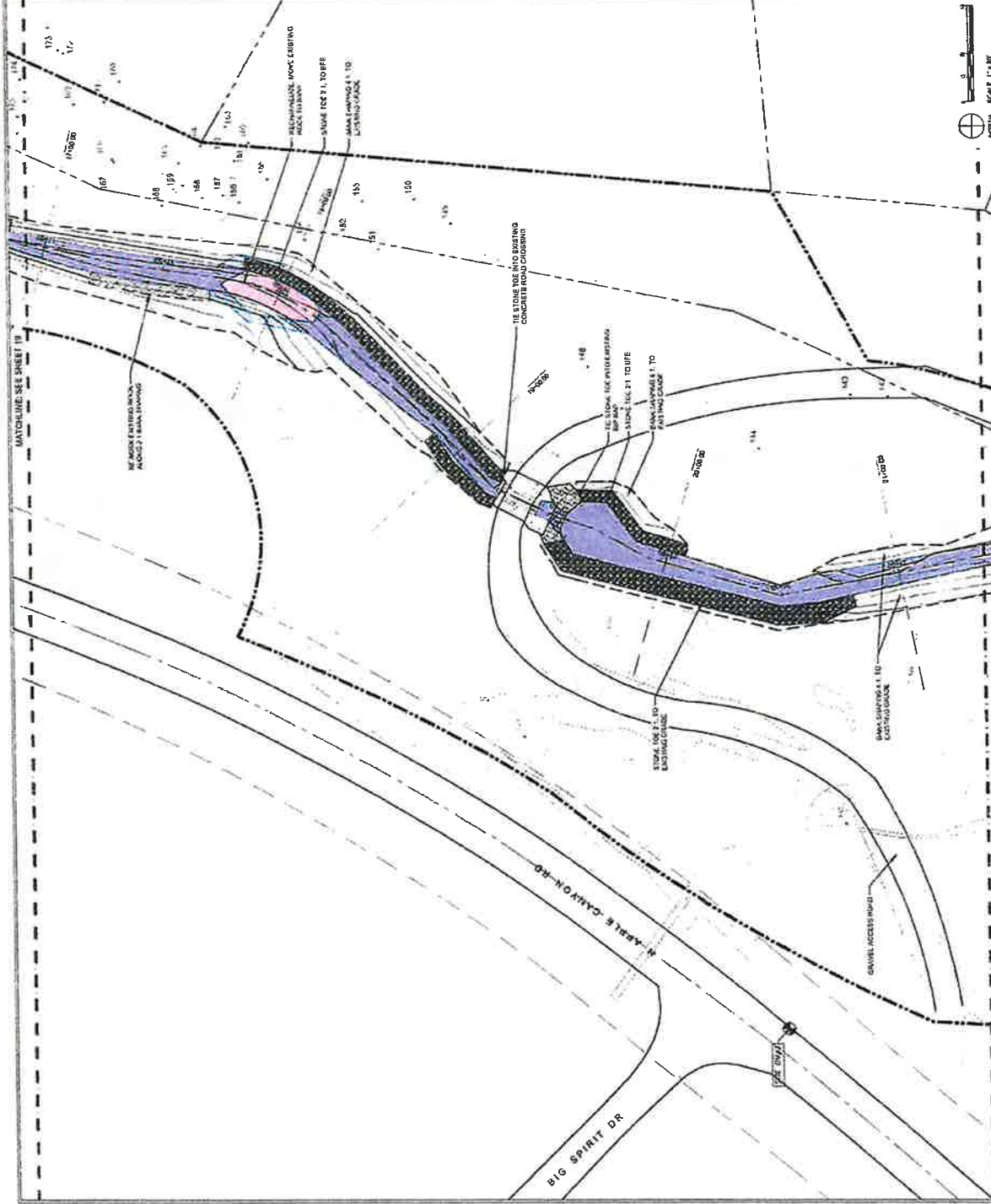
2.1. BANK FULL ELEVATION (BFE) IS THE HIGHEST ELEVATION OF THE STREAM CHANNEL AT THE LOCATION. BFE IS BASED ON THE HIGHEST FLOODING OF THE STREAM CHANNEL AT THE LOCATION. BFE IS NOT TO BE CONSIDERED AS A DESIGN FLOODING ELEVATION.

2.2. PROTECTION SHALL BE PROVIDED FOR THE STREAM CHANNEL AND BANKS TO PREVENT EROSION AND TO MAINTAIN THE CHANNEL CHANNEL IN THE DESIGN CHANNEL IN THE DESIGN CHANNEL.

3. STONE FOR PROTECTION TO NAVIS 1 APPROXIMATE QUANTITY AND HOW LONG (IN LS) TO BE PROVIDED.

**LEGEND**

- PROJECT BOUNDARY
- TOP OF SILT BARR (APPROX)
- EXISTING WATER CONTROL
- EXISTING WASH CONTROL
- EXISTING BARRIAGE STRUCTURE
- EXISTING RIPPLE STONE
- EXISTING TREE (TO BE PRESERVED)
- PROPOSED STREAM CHANNEL
- PROPOSED STREAM EDGE OF WATER
- PROPOSED LEVEL OF SPACING
- CROSS-BARR
- STONE FOR PROTECTION
- REFLECTOR
- RELOCATED REFLECTOR
- PROPOSED BANK SHAPING





RES  
 1515 Highway 100, Suite 200  
 Appleton, WI 54912  
 Phone: (920) 844-7700  
 Fax: (920) 844-7701  
 www.resinc.com

# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

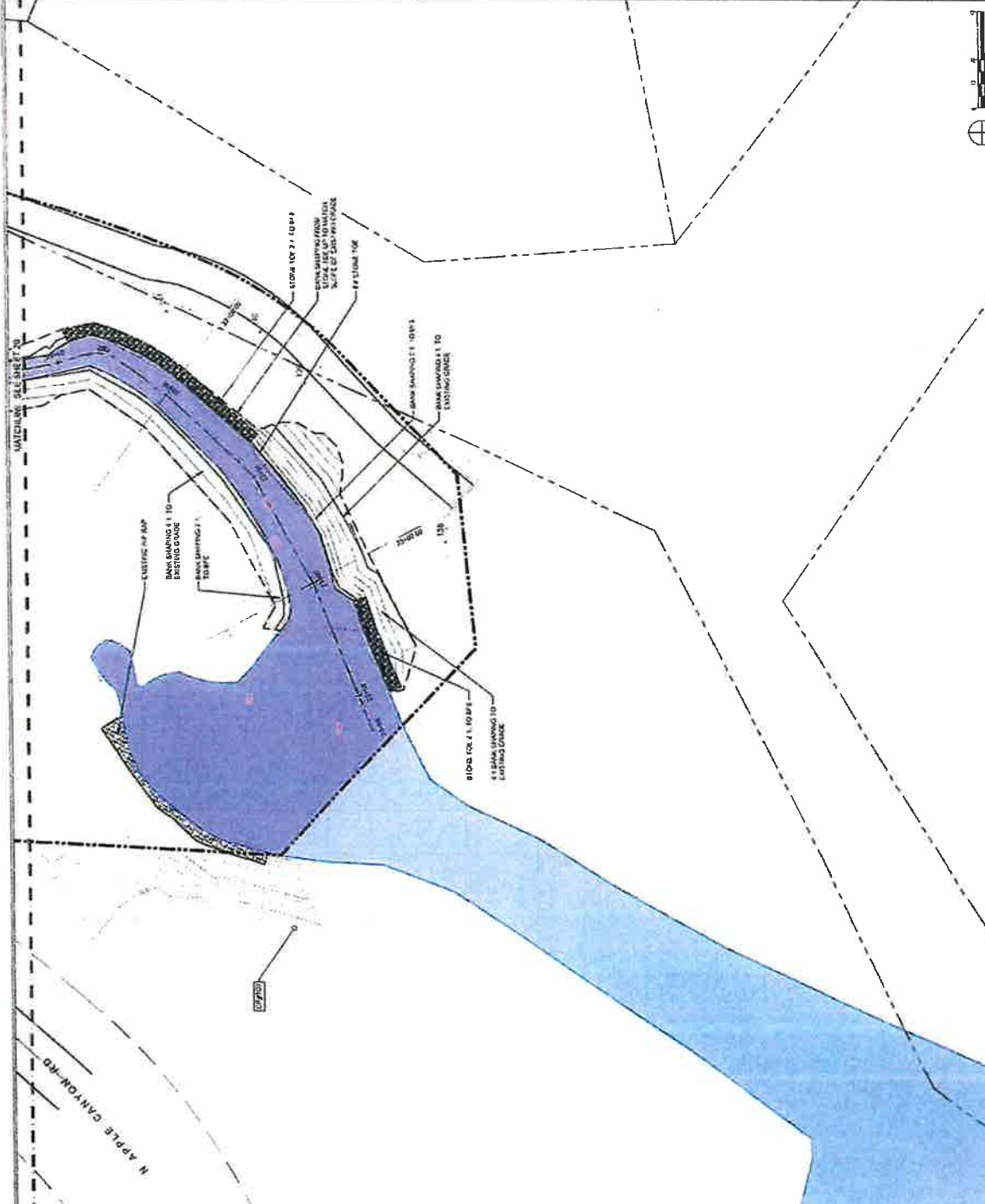
Project No.	10010010
Contract No.	10010010
Scale	AS SHOWN
Drawn by	JW
Checked by	JW
Date	10/11/17
Project Name	WINCHESTER BAY
Client	RES
Location	IL
Project Manager	JW
Author	JW
Checker	JW
Date	10/11/17

DATE: 10/11/17  
 SHEET NUMBER: 21

**FINAL FOR PERMITTING**

- ### SHEET NOTES
1. TOPOGRAPHY AND CONTIGUAL DATA PROVIDED FOR THIS PROJECT IS THE RESULT OF SURVEY OBSERVATIONS WERE CONDUCTED BY RES TO DETERMINE EXISTING ELEVATIONS AND ELEVATIONS PRIOR TO STREAM RESTORATION CONSTRUCTION.
  2. ELEVATIONS ARE IN FEET AND DECIMAL FEET UNLESS OTHERWISE NOTED.
  3. ELEVATIONS ARE BASED ON THE MEAN SEA LEVEL DATUM (MSL) WITH A BENCHMARK ELEVATION OF 100.00 FEET.
  4. ALL GRADED AREAS SHALL BE STABILIZED WITH VEGETATION AS SOON AS POSSIBLE AFTER CONSTRUCTION.
  5. EXISTING AND PROPOSED STREAM CHANNELS SHALL BE MAINTAINED AND RESTORED TO THEIR ORIGINAL CHANNELS TO THE EXTENT POSSIBLE.
  6. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS STREAM RESTORATION ACT AND ALL APPLICABLE REGULATIONS.
  7. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS STREAM RESTORATION ACT AND ALL APPLICABLE REGULATIONS.
  8. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS STREAM RESTORATION ACT AND ALL APPLICABLE REGULATIONS.

- ### LEGEND
- PROPOSED STREAM CHANNEL
  - EXISTING STREAM CHANNEL
  - EXISTING MINOR CHANNEL
  - EXISTING STREAM GRADE LINE
  - EXISTING BANK LINE
  - EXISTING RIFLE STONE
  - EXISTING TREE PERIMETER
  - PROPOSED STREAM CHANNEL
  - PROPOSED STREAM GRADE LINE
  - PROPOSED BANK LINE
  - PROPOSED RIFLE STONE
  - PROPOSED TREE PERIMETER







**WINCHESTER BAY  
STREAM REACH 1 RESTORATION**  
E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project No.	19-0103
Client	Apple Canyon Lake Property Owners Association
Location	Apple Canyon Lake, IL
Scale	AS SHOWN
Drawn by	JM
Checked by	JM
Approved by	JM
Date	01/18/17

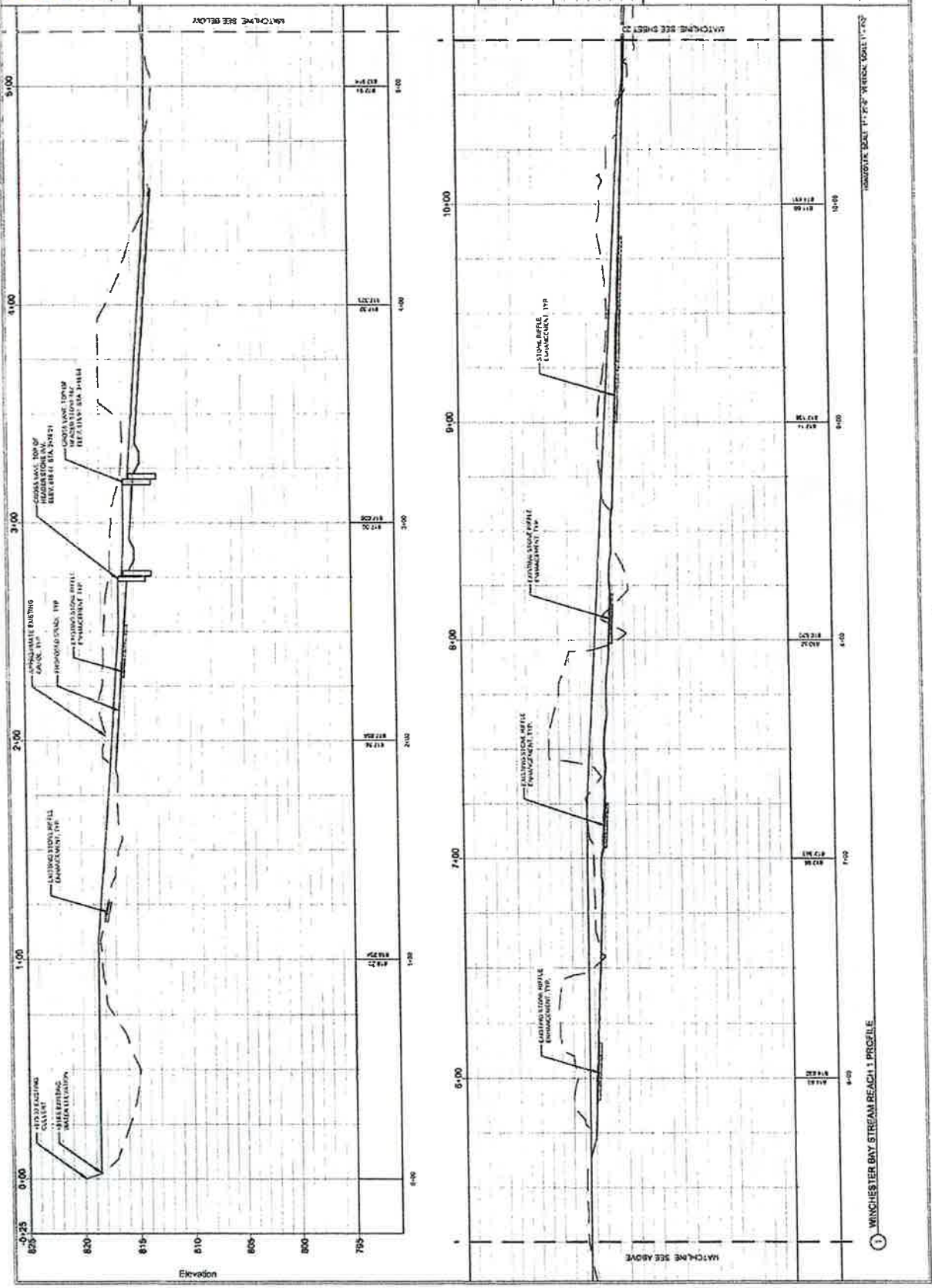
**STREAM PROFILE**

DATE: 01/18/17

SCALE: 1" = 20'

PROJECT NO: 19-0103

22



1 WINCHESTER BAY STREAM REACH 1 PROFILE





WINCHESTER BAY  
STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Maple Creek Land Property Owners Association  
14412 Maple Creek Rd  
Maple Creek, IL 60151

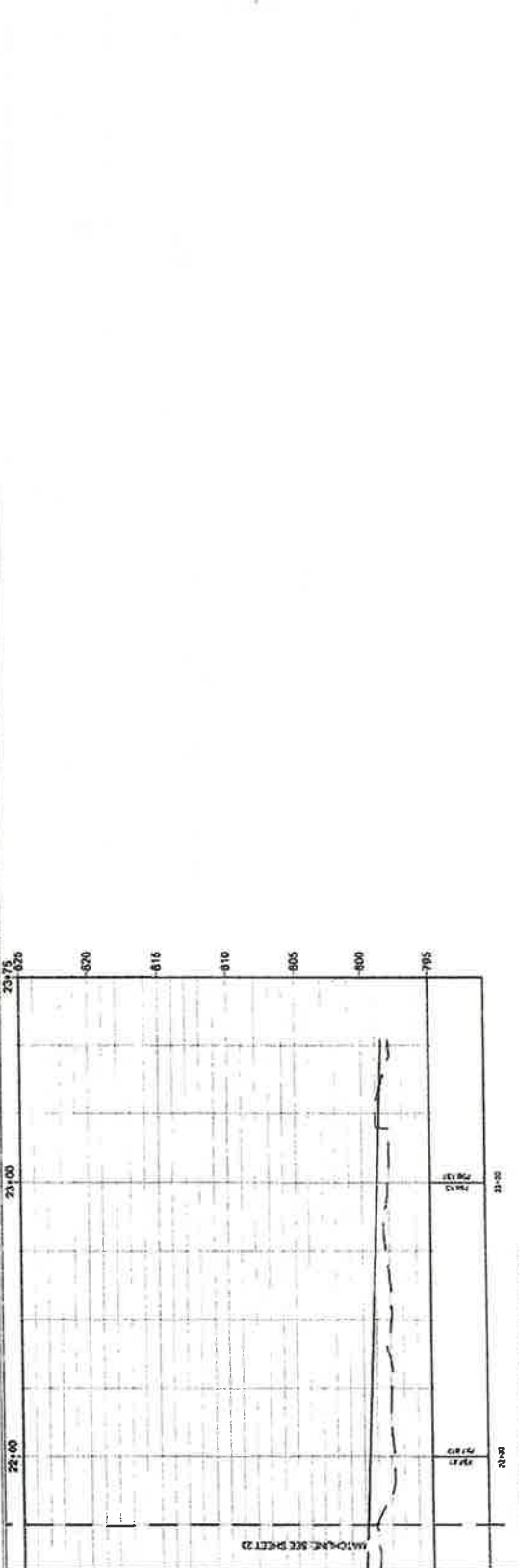
Project No.	10000000
Sheet No.	24
Scale	AS SHOWN
Contract No.	10000000
Contract Name	WINCHESTER BAY
Contract Date	08/11/11
Contract Value	\$1,000,000
Contract Status	Completed
Contract Location	Maple Creek, IL
Contract Description	Stream Restoration
Contract Owner	Maple Creek Land Property Owners Association
Contract Designer	RES
Contract Engineer	RES
Contract Surveyor	RES
Contract Architect	RES
Contract Contractor	RES
Contract Subcontractor	RES
Contract Consultant	RES
Contract Date	08/11/11
Contract Value	\$1,000,000
Contract Status	Completed
Contract Location	Maple Creek, IL
Contract Description	Stream Restoration
Contract Owner	Maple Creek Land Property Owners Association
Contract Designer	RES
Contract Engineer	RES
Contract Surveyor	RES
Contract Architect	RES
Contract Contractor	RES
Contract Subcontractor	RES
Contract Consultant	RES

FINAL FOR PERMITTING

DATE: 08/11/11

PROJECT NUMBER: 10000000

24



1 WINCHESTER BAY STREAM REACH 1 PROFILE

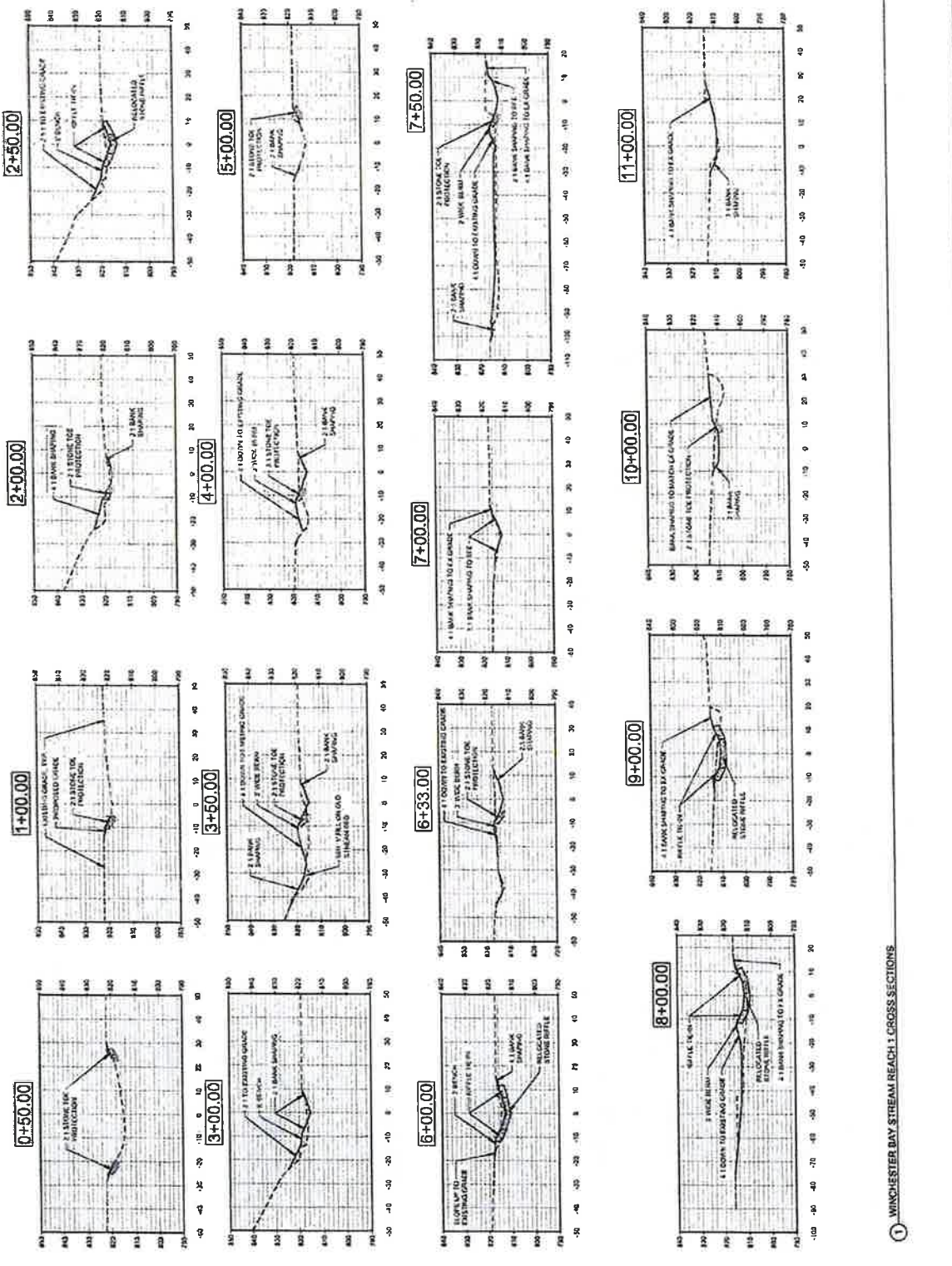
HORIZONTAL SCALE 1" = 25'-0" VERTICAL SCALE 1" = 4'-0"

ALIGNMENT	TYPE	START STATION	START CHORDIC	START PASTING	LENGTH	RADIUS	LINERATIONS DIRECTION	END STATION	END POINTING	END LARVAD	DELTA	CHORD	CHORD BEARING	BEARING OF ARC
C20	CURVE	0+00.00	230110.00	230110.00	45.00	45.00	0° 30' 00" W	0+45.00	230155.00	230155.00	15° 23' 15"	45.00	152° 36' 45"	152° 36' 45"
C21	CURVE	0+45.00	230155.00	230155.00	11.12	88.85	0° 30' 00" W	0+56.12	230166.12	230166.12	15° 11' 28"	11.12	150° 30' 36"	150° 30' 36"
C22	CURVE	0+56.12	230166.12	230166.12	4.25	100.00	0° 00' 00" W	0+60.37	230170.37	230170.37	0° 00' 00"	4.25	180° 00' 00"	180° 00' 00"
C23	CURVE	0+60.37	230170.37	230170.37	6.84	77.81	0° 30' 00" W	0+67.21	230177.21	230177.21	15° 23' 15"	6.84	152° 21' 21"	152° 21' 21"
C24	CURVE	0+67.21	230177.21	230177.21	6.84	77.81	0° 30' 00" W	0+74.05	230184.05	230184.05	15° 23' 15"	6.84	152° 21' 21"	152° 21' 21"
C25	CURVE	0+74.05	230184.05	230184.05	28.27	188.86	0° 00' 00" W	0+102.32	230212.32	230212.32	0° 00' 00"	28.27	180° 00' 00"	180° 00' 00"
C26	CURVE	0+102.32	230212.32	230212.32	13.84	112.00	0° 30' 00" W	0+116.16	230226.16	230226.16	15° 23' 15"	13.84	152° 21' 21"	152° 21' 21"
C27	CURVE	0+116.16	230226.16	230226.16	65.83	31.37	0° 30' 00" W	0+182.00	230291.83	230291.83	15° 23' 15"	65.83	152° 21' 21"	152° 21' 21"
C28	CURVE	0+182.00	230291.83	230291.83	33.27	29.65	0° 30' 00" W	0+215.27	230325.10	230325.10	15° 23' 15"	33.27	152° 21' 21"	152° 21' 21"
C29	CURVE	0+215.27	230325.10	230325.10	61.63	29.65	0° 30' 00" W	0+276.90	230386.73	230386.73	15° 23' 15"	61.63	152° 21' 21"	152° 21' 21"
C30	CURVE	0+276.90	230386.73	230386.73	42.18	29.65	0° 30' 00" W	0+319.08	230428.91	230428.91	15° 23' 15"	42.18	152° 21' 21"	152° 21' 21"
C31	CURVE	0+319.08	230428.91	230428.91	81.89	29.65	0° 30' 00" W	0+400.97	230510.80	230510.80	15° 23' 15"	81.89	152° 21' 21"	152° 21' 21"
C32	CURVE	0+400.97	230510.80	230510.80	6.84	100.00	0° 00' 00" W	0+407.81	230517.64	230517.64	0° 00' 00"	6.84	180° 00' 00"	180° 00' 00"
C33	CURVE	0+407.81	230517.64	230517.64	1.45	340.00	0° 00' 00" W	0+409.26	230519.09	230519.09	0° 00' 00"	1.45	180° 00' 00"	180° 00' 00"
C34	CURVE	0+409.26	230519.09	230519.09	4.84	77.81	0° 30' 00" W	0+414.10	230523.93	230523.93	15° 23' 15"	4.84	152° 21' 21"	152° 21' 21"
C35	CURVE	0+414.10	230523.93	230523.93	21.71	88.86	0° 30' 00" W	0+435.81	230545.64	230545.64	15° 23' 15"	21.71	152° 21' 21"	152° 21' 21"
C36	CURVE	0+435.81	230545.64	230545.64	7.84	100.00	0° 00' 00" W	0+443.65	230553.48	230553.48	0° 00' 00"	7.84	180° 00' 00"	180° 00' 00"
C37	CURVE	0+443.65	230553.48	230553.48	26.53	88.86	0° 30' 00" W	0+470.18	230580.01	230580.01	15° 23' 15"	26.53	152° 21' 21"	152° 21' 21"
C38	CURVE	0+470.18	230580.01	230580.01	11.00	88.86	0° 30' 00" W	0+481.18	230591.01	230591.01	15° 23' 15"	11.00	152° 21' 21"	152° 21' 21"
C39	CURVE	0+481.18	230591.01	230591.01	30.03	88.86	0° 30' 00" W	0+511.21	230621.04	230621.04	15° 23' 15"	30.03	152° 21' 21"	152° 21' 21"
C40	CURVE	0+511.21	230621.04	230621.04	75.18	88.86	0° 30' 00" W	0+586.39	230696.22	230696.22	15° 23' 15"	75.18	152° 21' 21"	152° 21' 21"
C41	CURVE	0+586.39	230696.22	230696.22	15.41	100.00	0° 00' 00" W	0+601.80	230711.63	230711.63	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C42	CURVE	0+601.80	230711.63	230711.63	14.60	100.00	0° 00' 00" W	0+616.40	230726.23	230726.23	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C43	CURVE	0+616.40	230726.23	230726.23	15.41	100.00	0° 00' 00" W	0+631.81	230741.64	230741.64	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C44	CURVE	0+631.81	230741.64	230741.64	14.60	100.00	0° 00' 00" W	0+646.41	230756.24	230756.24	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C45	CURVE	0+646.41	230756.24	230756.24	15.41	100.00	0° 00' 00" W	0+661.82	230771.65	230771.65	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C46	CURVE	0+661.82	230771.65	230771.65	14.60	100.00	0° 00' 00" W	0+676.42	230786.25	230786.25	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C47	CURVE	0+676.42	230786.25	230786.25	15.41	100.00	0° 00' 00" W	0+691.83	230801.66	230801.66	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C48	CURVE	0+691.83	230801.66	230801.66	14.60	100.00	0° 00' 00" W	0+706.43	230816.26	230816.26	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C49	CURVE	0+706.43	230816.26	230816.26	15.41	100.00	0° 00' 00" W	0+721.84	230831.67	230831.67	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C50	CURVE	0+721.84	230831.67	230831.67	14.60	100.00	0° 00' 00" W	0+736.44	230846.27	230846.27	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C51	CURVE	0+736.44	230846.27	230846.27	15.41	100.00	0° 00' 00" W	0+751.85	230861.68	230861.68	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C52	CURVE	0+751.85	230861.68	230861.68	14.60	100.00	0° 00' 00" W	0+766.45	230876.28	230876.28	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C53	CURVE	0+766.45	230876.28	230876.28	15.41	100.00	0° 00' 00" W	0+781.86	230891.69	230891.69	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C54	CURVE	0+781.86	230891.69	230891.69	14.60	100.00	0° 00' 00" W	0+796.46	230906.29	230906.29	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C55	CURVE	0+796.46	230906.29	230906.29	15.41	100.00	0° 00' 00" W	0+811.87	230921.70	230921.70	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C56	CURVE	0+811.87	230921.70	230921.70	14.60	100.00	0° 00' 00" W	0+826.47	230936.30	230936.30	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C57	CURVE	0+826.47	230936.30	230936.30	15.41	100.00	0° 00' 00" W	0+841.88	230951.71	230951.71	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C58	CURVE	0+841.88	230951.71	230951.71	14.60	100.00	0° 00' 00" W	0+856.48	230966.31	230966.31	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C59	CURVE	0+856.48	230966.31	230966.31	15.41	100.00	0° 00' 00" W	0+871.89	230981.72	230981.72	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C60	CURVE	0+871.89	230981.72	230981.72	14.60	100.00	0° 00' 00" W	0+886.49	230996.32	230996.32	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C61	CURVE	0+886.49	230996.32	230996.32	15.41	100.00	0° 00' 00" W	0+901.90	231011.73	231011.73	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C62	CURVE	0+901.90	231011.73	231011.73	14.60	100.00	0° 00' 00" W	0+916.50	231026.33	231026.33	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C63	CURVE	0+916.50	231026.33	231026.33	15.41	100.00	0° 00' 00" W	0+931.91	231041.74	231041.74	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C64	CURVE	0+931.91	231041.74	231041.74	14.60	100.00	0° 00' 00" W	0+946.51	231056.34	231056.34	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C65	CURVE	0+946.51	231056.34	231056.34	15.41	100.00	0° 00' 00" W	0+961.92	231071.75	231071.75	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C66	CURVE	0+961.92	231071.75	231071.75	14.60	100.00	0° 00' 00" W	0+976.52	231086.35	231086.35	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C67	CURVE	0+976.52	231086.35	231086.35	15.41	100.00	0° 00' 00" W	0+991.93	231101.76	231101.76	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C68	CURVE	0+991.93	231101.76	231101.76	14.60	100.00	0° 00' 00" W	1+006.53	231116.36	231116.36	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C69	CURVE	1+006.53	231116.36	231116.36	15.41	100.00	0° 00' 00" W	1+021.94	231131.77	231131.77	0° 00' 00"	15.41	180° 00' 00"	180° 00' 00"
C70	CURVE	1+021.94	231131.77	231131.77	14.60	100.00	0° 00' 00" W	1+036.54	231146.37	231146.37	0° 00' 00"	14.60	180° 00' 00"	180° 00' 00"
C71	CURVE	1+036.54	231146.37	231146.37	15.41	100.00	0° 00' 00" W	1+051.95	231161.78	231161.78	0° 00' 00"	15.41	180° 00' 00"	



**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Client	Apple Canyon Lake Property Owners Association
Project	Apple Canyon Lake
Location	North Apple Canyon Rd downstream to Apple Canyon Lake, IL
Scale	1" = 20'
Drawn by	JLB
Checked by	JLB
Approved by	JLB
Date	10/13/17



SCALE: 1" = 20'

WINCHESTER BAY STREAM REACH 1 CROSS SECTIONS

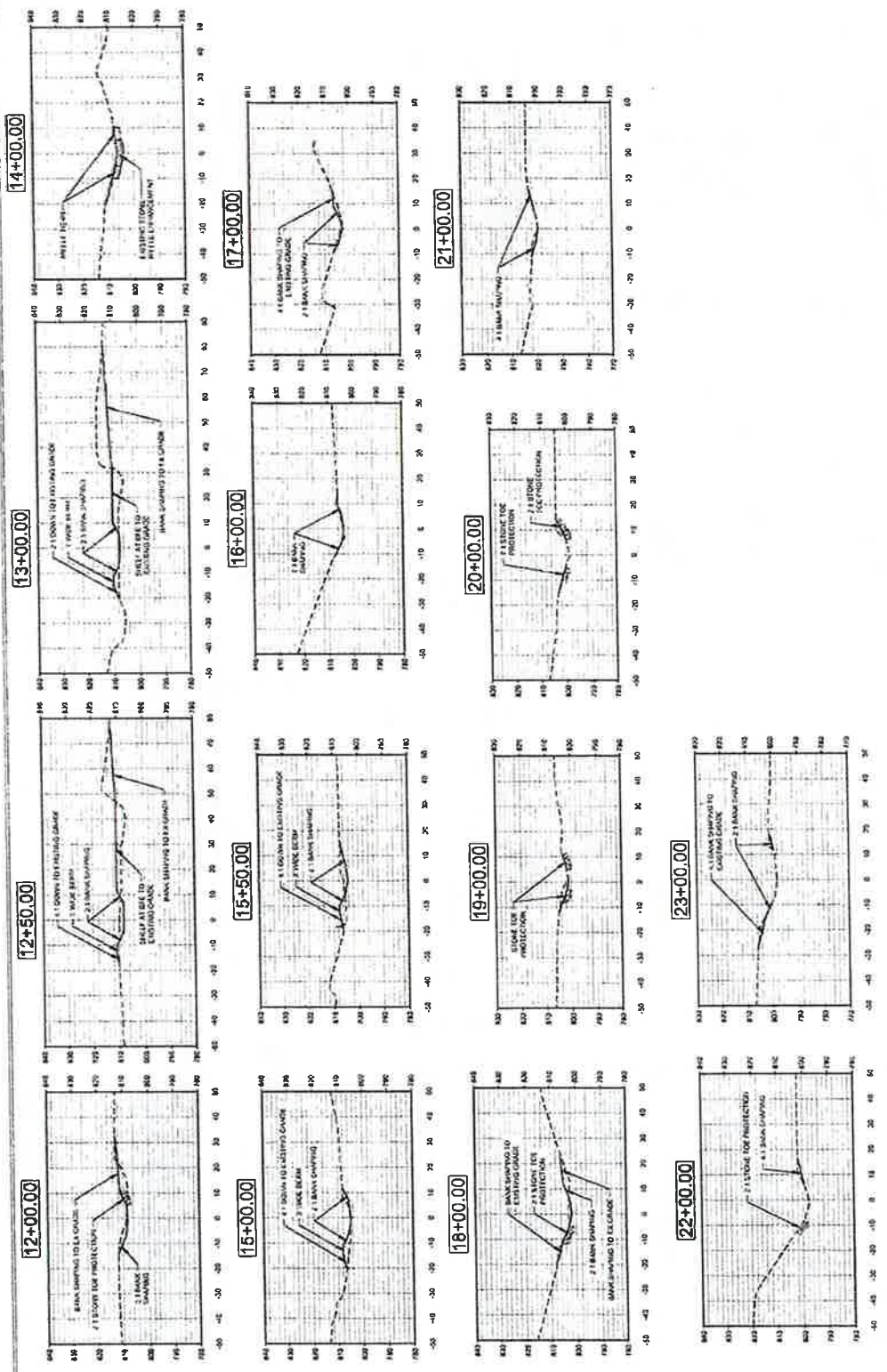


Apple Canyon Lake Priority Dam Assessment  
 E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL  
**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**

PROJECT NO.	100000000
DATE	08/11/2011
PROJECT NAME	Apple Canyon Lake Priority Dam Assessment
CLIENT	Apple Canyon Lake
PROJECT LOCATION	Apple Canyon Lake, IL
PROJECT NUMBER	100000000

PKWL FOR PERMITTING  
 SHEET 001  
 SCALE 1" = 10'

STREAM CROSS SECTIONS  
 26



WINCHESTER BAY STREAM REACH 1 CROSS SECTIONS







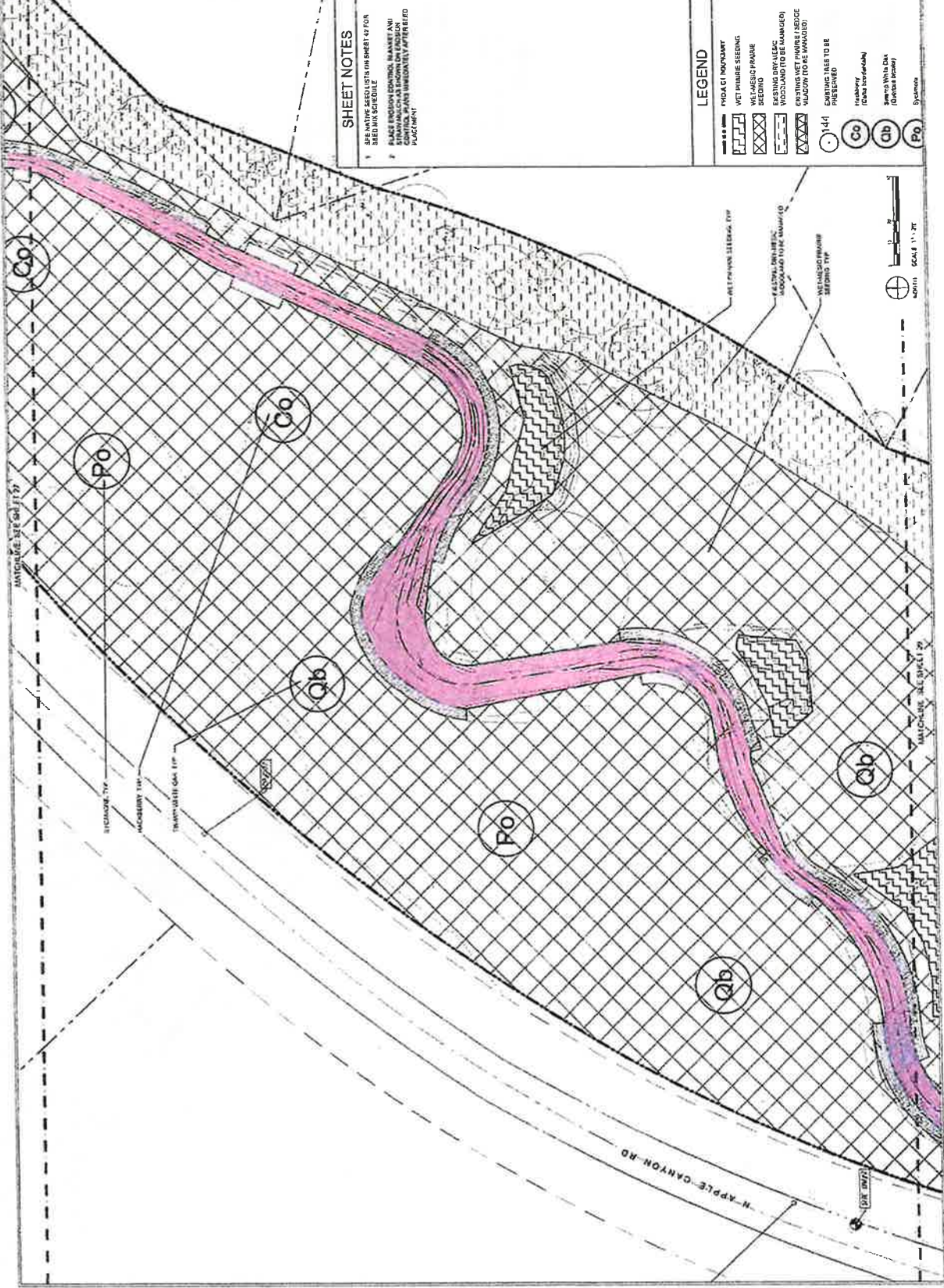
NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITTING	08/15/11
2	REVISED FOR PERMITTING	08/15/11
3	REVISED FOR PERMITTING	08/15/11
4	REVISED FOR PERMITTING	08/15/11
5	REVISED FOR PERMITTING	08/15/11
6	REVISED FOR PERMITTING	08/15/11
7	REVISED FOR PERMITTING	08/15/11
8	REVISED FOR PERMITTING	08/15/11
9	REVISED FOR PERMITTING	08/15/11
10	REVISED FOR PERMITTING	08/15/11

**FINAL FOR PERMITTING**

DATE: 08/15/11  
 SHEET NO.: 28

**PLANTING PLAN**

SCALE: 1" = 20'



**SHEET NOTES**

- SEE PLANTING NOTES ON SHEET 47 FOR SPECIES LIST AND SCHEDULE
- PLEASE INSURE CONTROL BANKS AND STRIPINGS ARE SHOWN ON EROSION CONTROL PLANS IMMEDIATELY AFTER BIDDING

**LEGEND**

- PO: PLANTING OBJECTIVES
- CO: CONSTRUCTION OBJECTIVES
- QB: QUALITY OBJECTIVES
- PO: PLANTING OBJECTIVES
- CO: CONSTRUCTION OBJECTIVES
- QB: QUALITY OBJECTIVES
- PO: PLANTING OBJECTIVES
- CO: CONSTRUCTION OBJECTIVES
- QB: QUALITY OBJECTIVES





RES (Residential Environmental Services) Inc.  
 1100 North Apple Canyon Rd, Suite 100  
 Appleton, WI 54912  
 Phone: (920) 833-1111  
 Fax: (920) 833-1112  
 www.resinc.com

**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Project No.	1000018
Project Name	Winchester Bay Stream Reach 1 Restoration
Client	Apple Canyon Lake Property Owners Association
Location	Winchester Bay, WI
Scale	1" = 20'
Sheet No.	29
Sheet Title	Planting Plan

**PLANTING PLAN**

DATE: 08/11/2017

SCALE: 1" = 20'

29

**SHEET NOTES**

1. RELATIVE ELEVATIONS IN BAY OUTLINE  
 TO BE USED FOR PLANTING

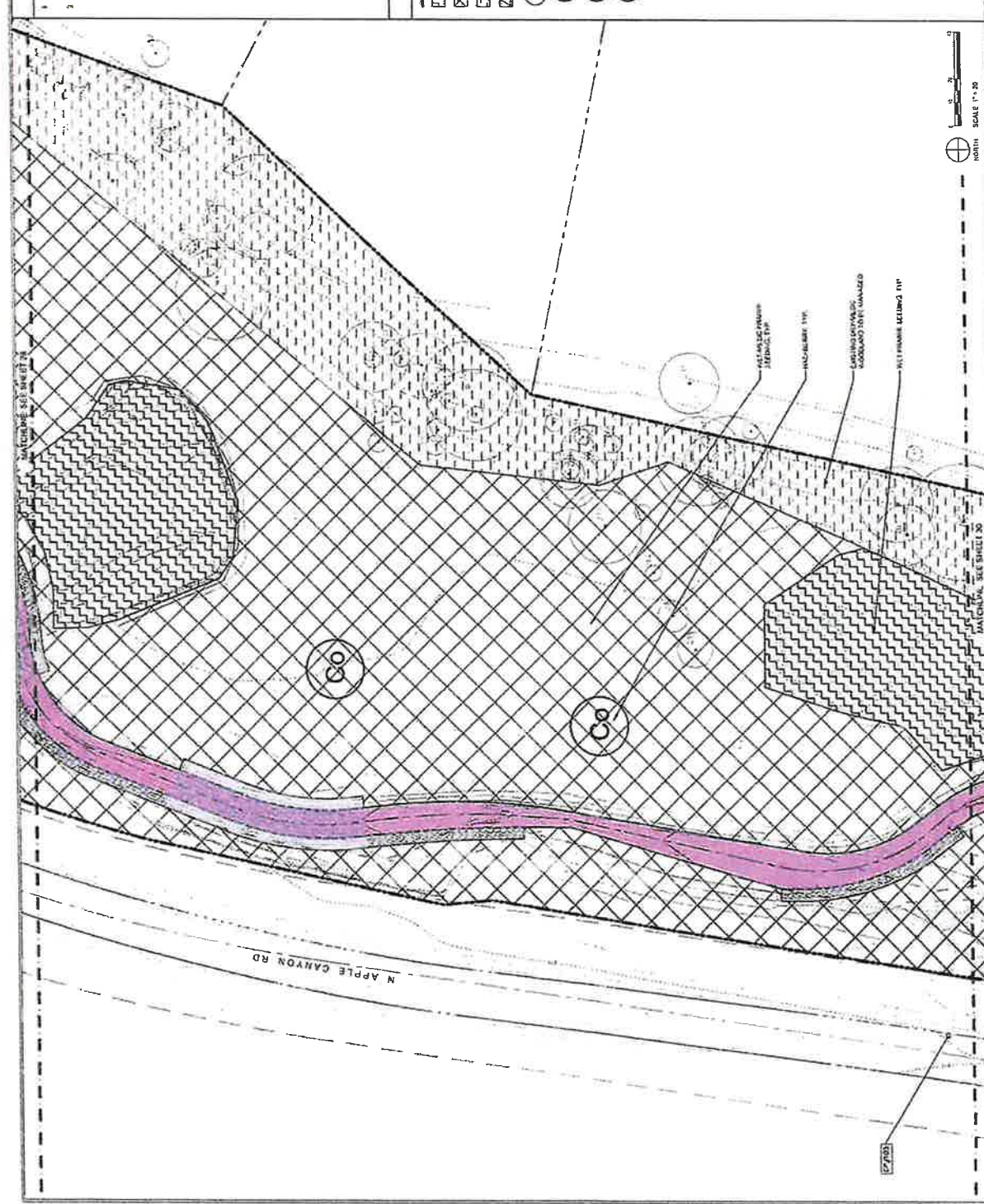
2. PLACE EROSION CONTROL BARRIERS AND  
 MULCH IMMEDIATELY AFTER BEED  
 PLACEMENT

**LEGEND**

PROJECT BOUNDARY  
 WET PRIME BEEDING  
 WET-HESS FRAME  
 BEEDING  
 EXISTING DRY-HESS  
 WOODLAND TO BE INTRODUCED  
 EXISTING WET-HESS BEEDING  
 EXISTING WET-HESS BEEDING  
 EXISTING TREE TO BE  
 PRESERVED

CO  
 Qb  
 Po

Species:  
 Cowitch  
 (Platanus occidentalis)



Apple Canyon Lake Property Owners Association  
 1100 North Apple Canyon Rd, Suite 100  
 Appleton, WI 54912  
 Phone: (920) 833-1111  
 Fax: (920) 833-1112  
 www.resinc.com



RES | Resource Environmental Systems, LLC  
 401 W. Main St. Suite 100  
 Appleton, WI 54912

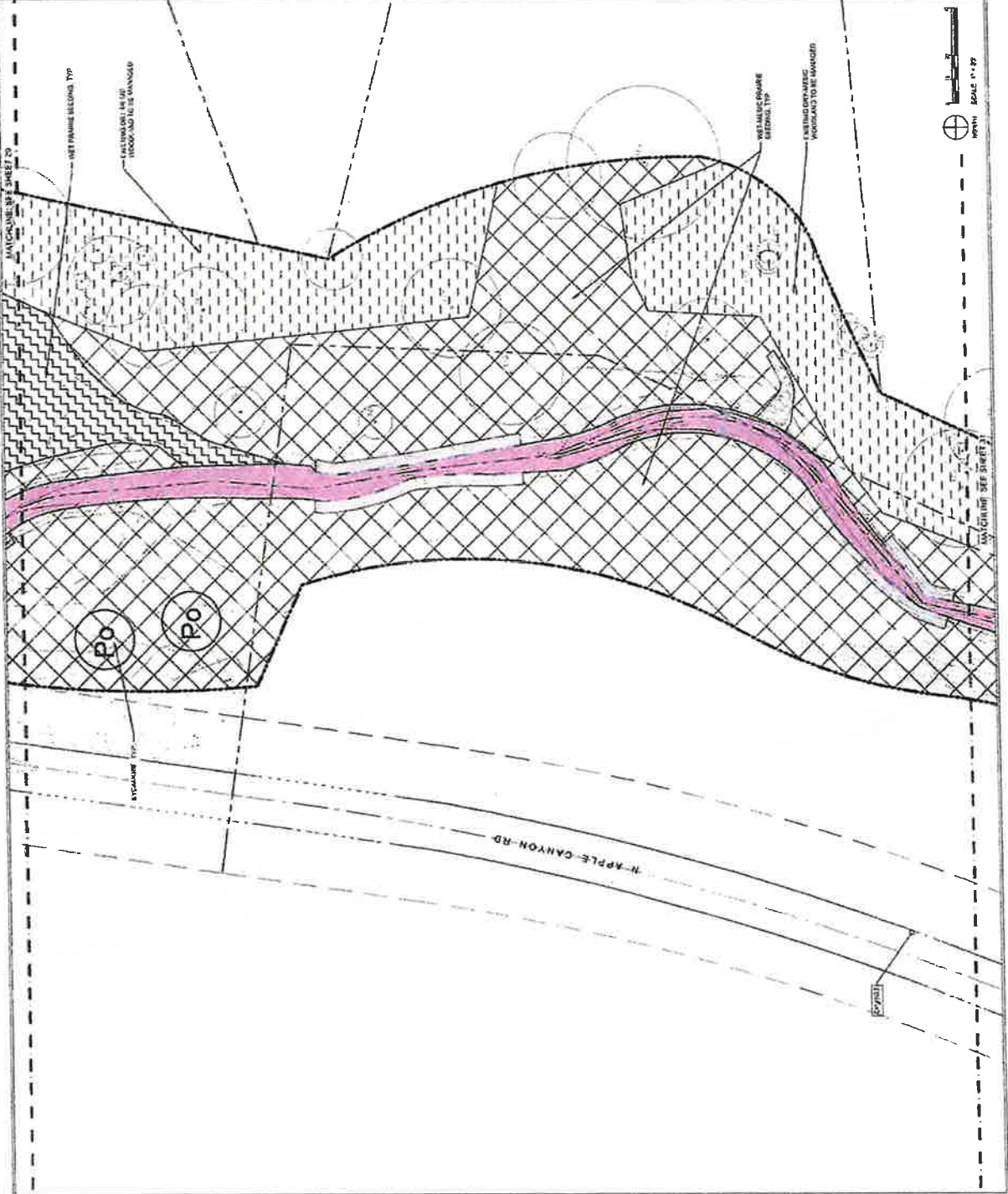
**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**  
 E North Apple Canyon Rd downstream to Apple Canyon Lake, IL

Client	Apple Canyon Lake Trout Derby Association
Project No.	19-001
Design No.	19-001-01
Scale	AS SHOWN
Drawn By	JTB
Checked By	JTB
Date	11/11/19
Project Location	WINCHESTER BAY
Project Description	Stream Reach 1 Restoration
Project Status	Final

**PLANTING PLAN**  
 DATE: 11/11/19  
 SHEET NUMBER: **30**

- SHEET NOTES**
- SEE NOTE 800.015 ON SHEET 24 FOR REVISION HISTORY.
  - PLACE BRUSH AND LOGS DOWNSTREAM TO CONTROL FLOW AND IMMEDIATELY AFTER SHED PLANTING.

- LEGEND**
- PROJECT BOUNDARY
  - WET PRAIRIE SEDGEO
  - WET PRAIRIE SEDGE
  - SEDGEO PRAIRIE
  - SEDGEO PRAIRIE WOODLAND (TO BE MANAGED)
  - EXISTING WET PRAIRIE / SEDGEO WOODLAND (TO BE MAINTAINED)
  - DESIGN TREE TO BE PLANTED
  - 144
  - Co (Cottonwood)
  - Qb (Bottle Tree)
  - Po (Prairie Dog)



FINAL FOR PERMITTING



DATE: 03/22/2011  
 TIME: 10:00 AM  
 PROJECT: WINCHESTER BAY  
 SHEET: 31

PROJECT: WINCHESTER BAY  
 SHEET: 31

**SHEET NOTES**

1. SEE NOTES RELEVANT TO SHEET 30 FOR REVISIONS TO THIS PLAN.
2. THIS PLAN SHOWS THE PLANTING AND MAINTENANCE AREAS FOR THE STREAM REACH 1 RESTORATION PROJECT. PLANTING SHALL BE INSTALLED IMMEDIATELY AFTER BED PROTECTION.

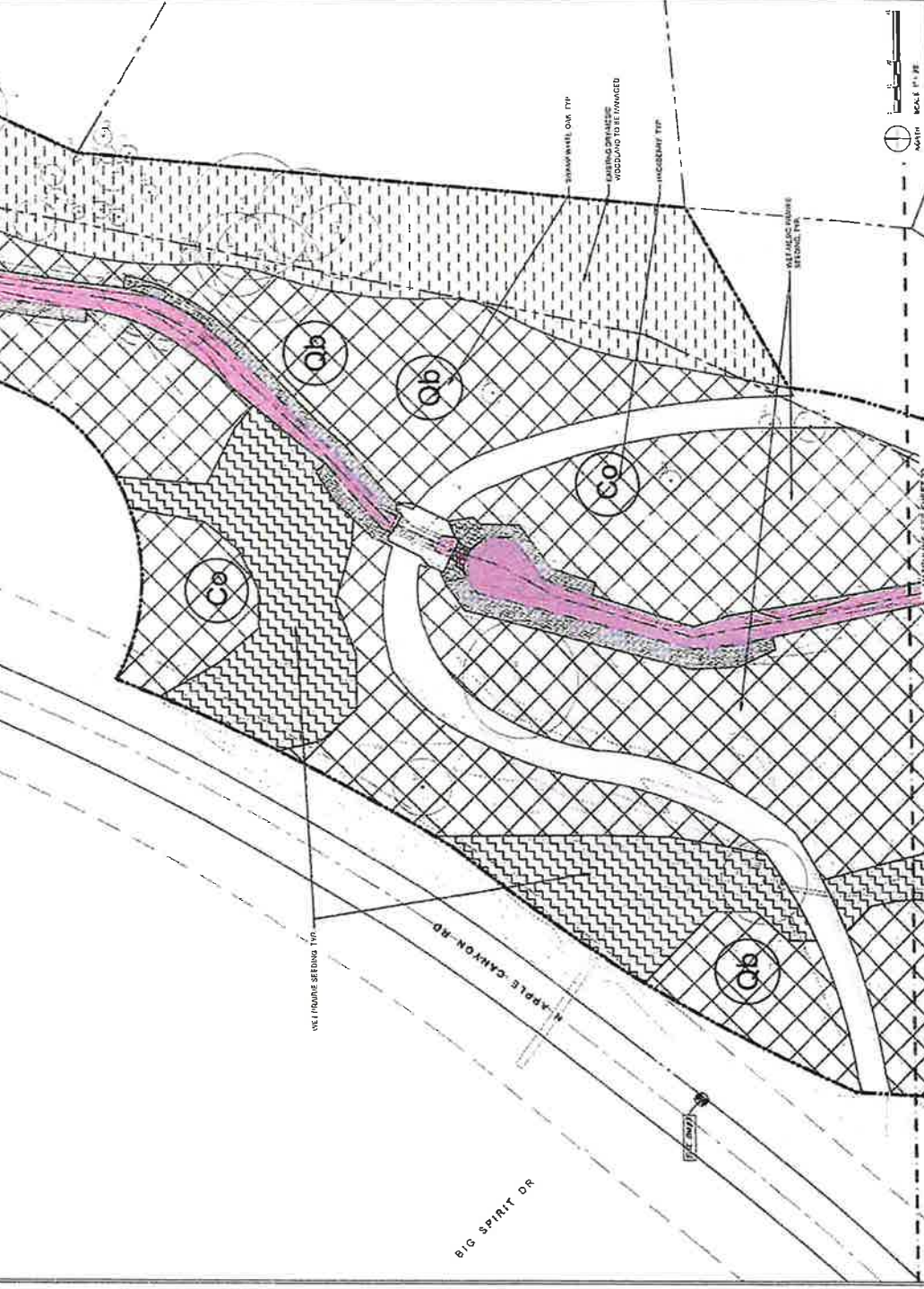
**LEGEND**

PROJECT BOUNDARY  
 10' BUFFER SETBACK  
 WETLANDS  
 WETLANDS BUFFER  
 WETLANDS BUFFER  
 WETLANDS BUFFER  
 WETLANDS BUFFER  
 WETLANDS BUFFER  
 WETLANDS BUFFER

EXISTING TREE TO BE PRESERVED  
 P0  
 P1  
 P2

PLANTING  
 (SEE SCHEDULE)  
 C0  
 C1  
 C2

STORMWATER OAK TYP  
 EAST FACIAL BARRIER SETBACK TYP  
 PROPOSED TYP  
 WEST FACIAL BARRIER SETBACK TYP



MATCHLINE SEE SHEET 30

MATCHLINE SEE SHEET 32

BIG SPIRIT DR

APPLE CANYON RD







RES  
 1615 Peachtree Industrial Blvd., Suite 100  
 Atlanta, GA 30329  
 Phone: 404.525.1100  
 Fax: 404.525.1101  
 Website: www.res.com

# WINCHESTER BAY STREAM REACH 1 RESTORATION

North Apple Canyon Rd down to Apple Canyon Lake, IL

NO.	DATE	DESCRIPTION
1	10/15/10	PROJECT START
2	11/15/10	DESIGN DEVELOPMENT
3	12/15/10	CONSTRUCTION PERMITS
4	01/15/11	CONSTRUCTION START
5	02/15/11	CONSTRUCTION COMPLETE
6	03/15/11	PROJECT CLOSEOUT

**FINAL FOR PERMITTING**

DATE: 11/15/10

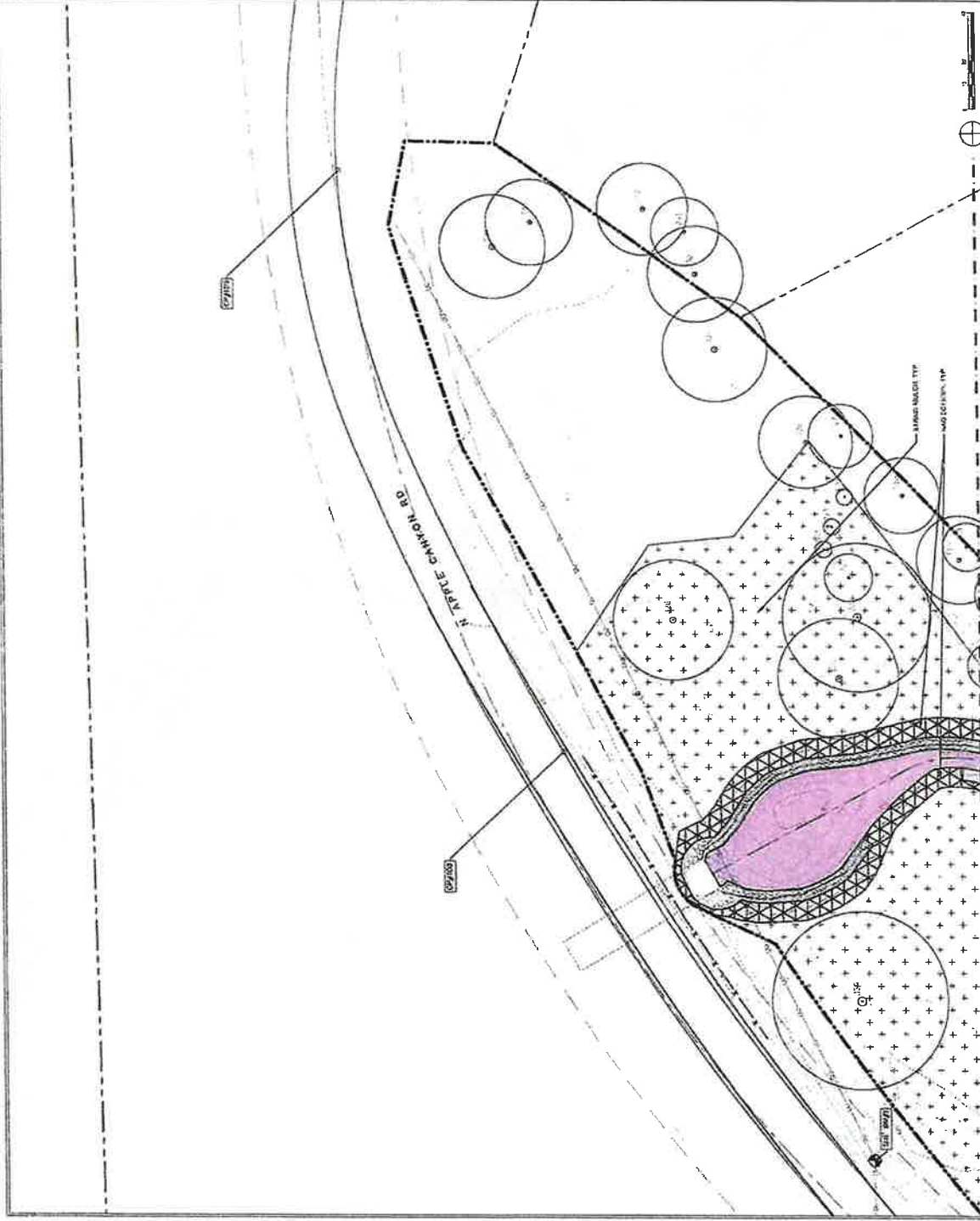
**EROSION & SEDIMENT CONTROL**

SHEET NUMBER: **33**

- ### SHEET NOTES
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.
  2. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
  3. MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
  4. REMOVE TRAILS AND MOODY VEGETATION PER PLAN.
  5. MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
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  100. MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.

### LEGEND

- PROJECT BOUNDARY
- PROPOSED STREAM EDGE OF WATER
- EQUIPMENT ACCESS
- SEAL FENCE
- LAVER OF FASING AND STICKLE AREA
- EROSION CONTROL BLANKET, HMG 501M, OR EQUAL
- EROSION CONTROL, HMG 501M, OR EQUAL
- STRAW MULCH



DATE: 11/15/10

PROJECT NUMBER: 33

SCALE: 1" = 20'

DATE: 11/15/10

PROJECT NUMBER: 33

SCALE: 1" = 20'

DATE: 11/15/10

PROJECT NUMBER: 33

SCALE: 1" = 20'

Apple Canyon Rd Project Owners Approval  
 Date: 11/15/11  
 Project No: 11-001

## WINCHESTER BAY STREAM REACH 1 RESTORATION

E North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO	DATE	DESCRIPTION
1	11/15/11	ISSUED FOR PERMITTING

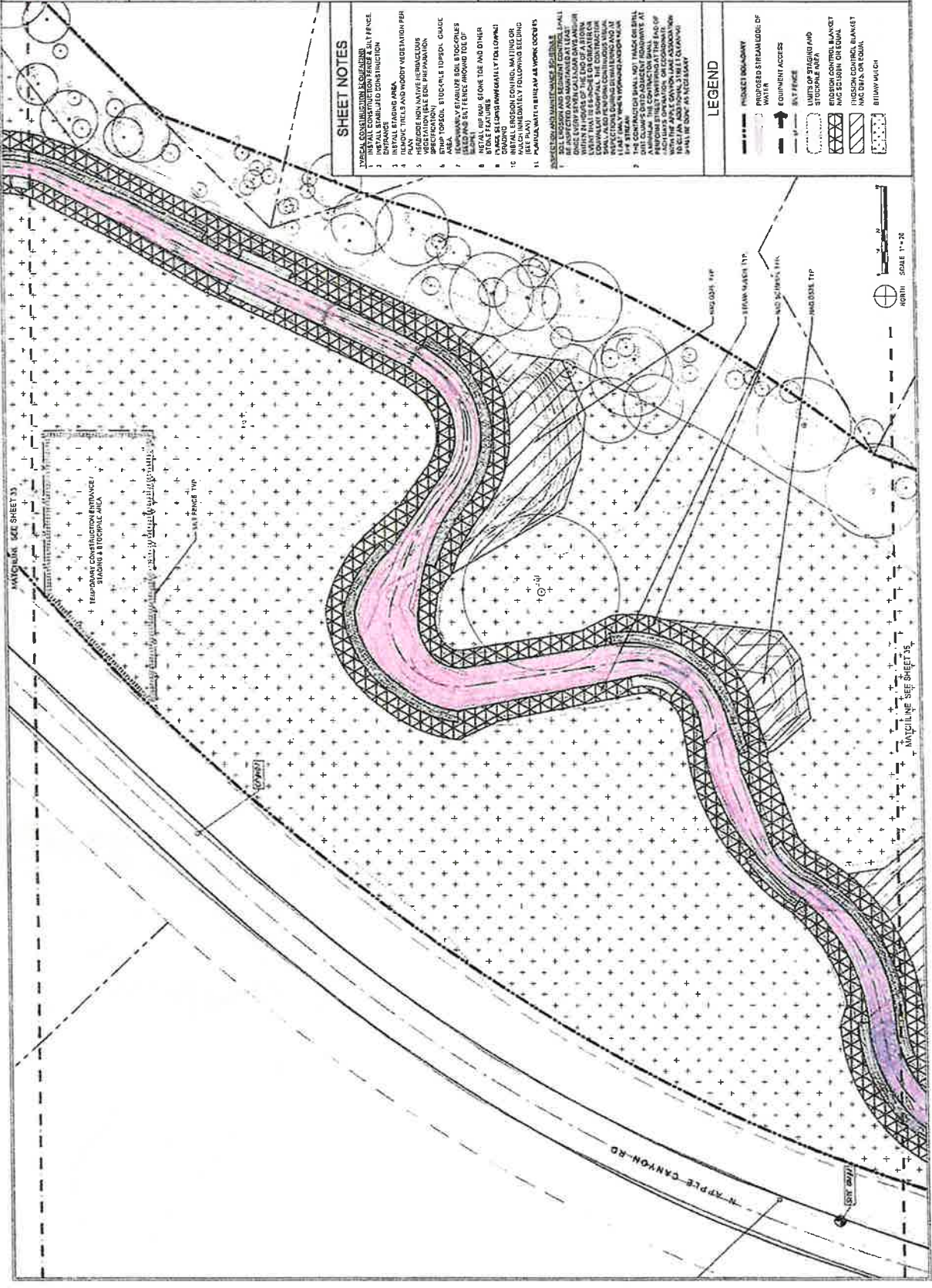
**FINAL FOR PERMITTING**

SHEET TITLE

### EROSION & SEDIMENT CONTROL

SHEET NUMBER

# 34



### SHEET NOTES

1. NORMAL SENSATION RESTORATION
2. INITIAL CONSTRUCTION FENCE & SILT FENCE
3. INITIAL STABILIZED CONSTRUCTION
4. INITIAL STAGING AREA
5. LEADIC TREES AND WOODY VEGETATION PER HERBICIDE NON-NATIVE HERBACEOUS VEGETATION REMOVAL PREPARATION
6. STAP TORSON, STUCKER'S TOPSOIL, GRADE AND MANLY STABILIZE SOILS TOG-PILES
7. SILENT AND SILENT FENCE AROUND TOE OF
8. RIP RAP, RIP RAP STONE TOE AND OTHER STONE FEATURES
9. CHAIN LINK FENCE (AS SHOWN)
10. INITIAL EROSION CONTROL, MAINTENANCE AND MONITORING FOLLOWING (SEE PLAN)
11. PLANTING WITH STREAM AS WORK COMPLETES

**CONTRACTOR AND MAINTENANCE RESPONSIBILITIES**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

### LEGEND

- PROJECT BOUNDARY
- PROPOSED STREAM BED
- EQUIPMENT ACCESS
- SILT FENCE
- LIMITS OF STAGING AND STORAGE AREA
- EXISTING STREAM BANK
- PROPOSED STREAM BANK
- PROPOSED CONTROL BLANKET
- MAINTENANCE AREA
- BRUSH MULCH



MATCHLINE SEE SHEET 33  
 TEMPORARY EROSION CONTROL MEASURES  
 MAINTENANCE AND MONITORING

MATCHLINE SEE SHEET 35











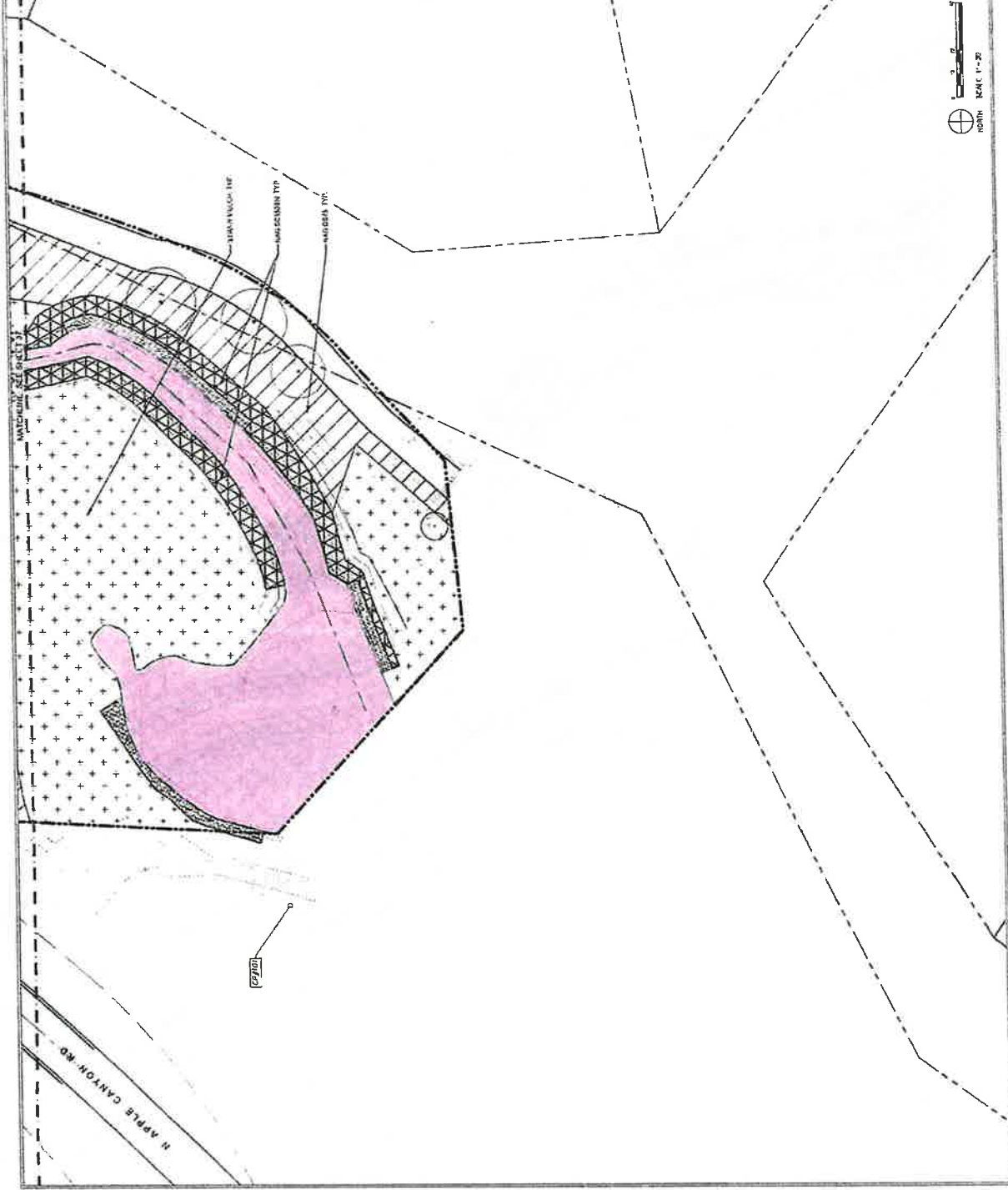
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10/12/11	PRELIMINARY DESIGN	RES	
11/15/11	REVISED DESIGN	RES	
12/15/11	FINAL DESIGN	RES	

**SHEET NOTES**

1. INITIAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING NOTES.
2. MAINTAIN EXISTING VEGETATION AND GRASS WHERE POSSIBLE.
3. MAINTAIN EXISTING WOODY VEGETATION AREA WHERE POSSIBLE.
4. PLANT SPECIES SHOULD BE APPROPRIATE TO THE LOCAL CLIMATE AND SOIL TYPE.
5. PLANTING SHOULD BE INSTALLED AT THE END OF THE CONSTRUCTION PERIOD.
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11. PLANTING SHOULD BE INSTALLED AT THE END OF THE CONSTRUCTION PERIOD.

**LEGEND**

- PROPOSED STREAM EDGE OF WATER
- EQUIPMENT ACCESS
- SET BACK
- LANDS OF SAVING AND STOCKPILE AREA
- EROSION CONTROL BLANKET, MATS, COIR OR EQUAL
- EROSION CONTROL BLANKET, MATS, COIR OR EQUAL
- STRAWMULCH



**FINAL FOR PERMITTING**

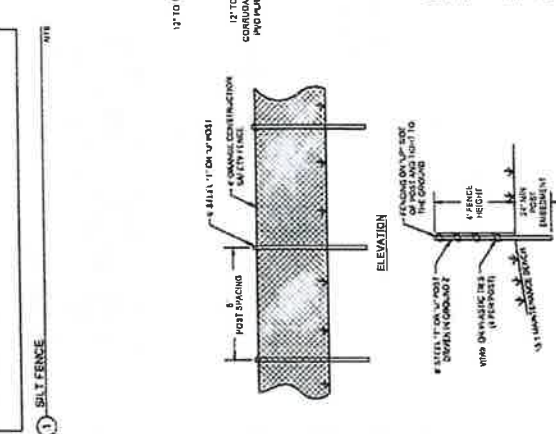
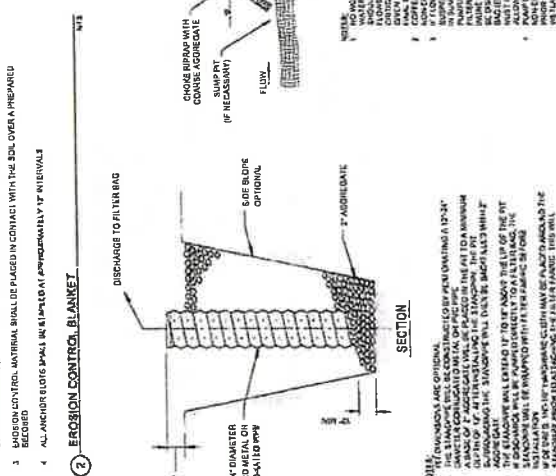
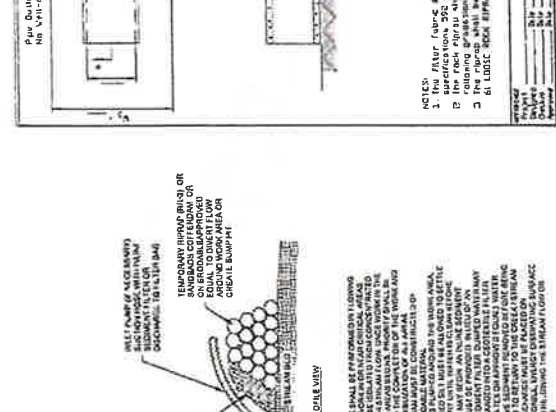
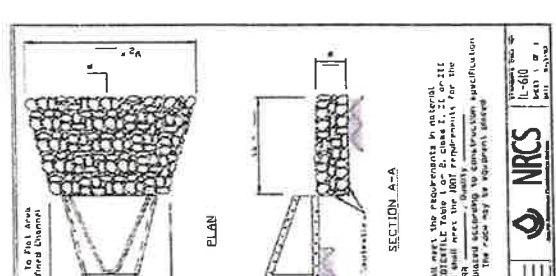
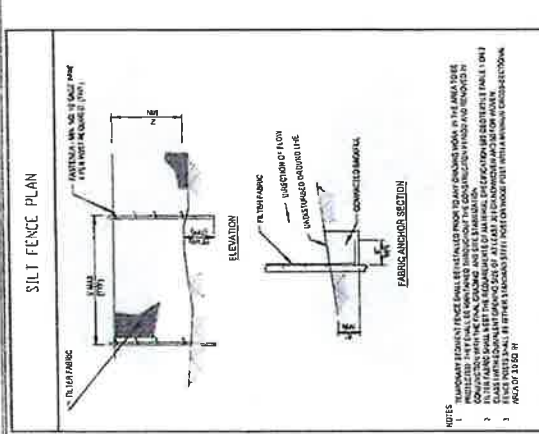
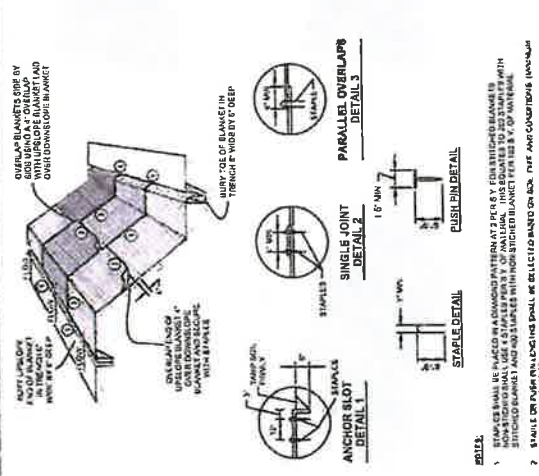
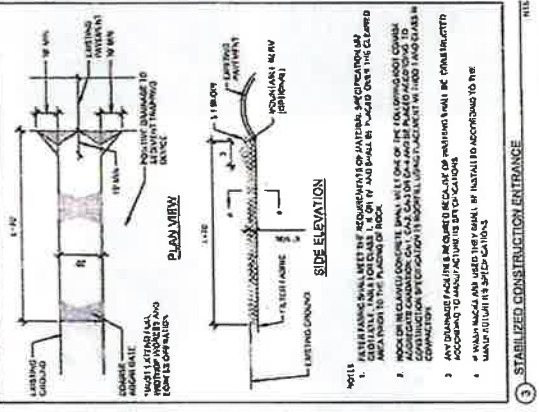
**WINCHESTER BAY  
 STREAM REACH 1 RESTORATION**

**38**  
 SHEET NUMBER



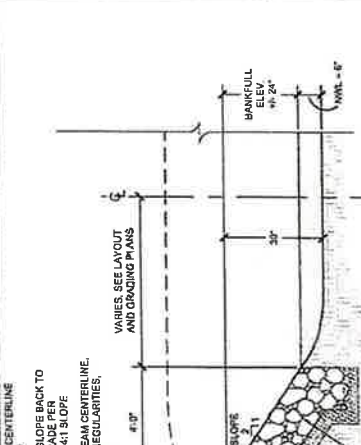


DATE	DESCRIPTION
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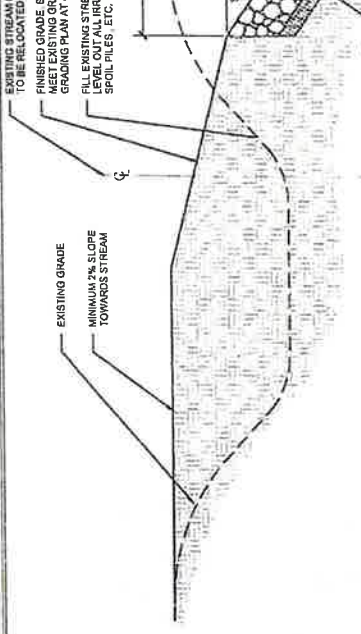




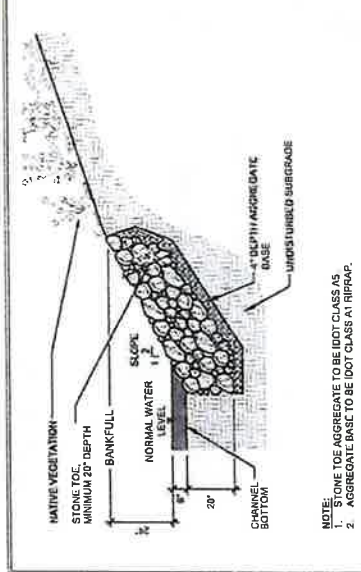
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4	08/11/2024	ISSUED FOR PERMITTING
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50	08/11/2024	ISSUED FOR PERMITTING



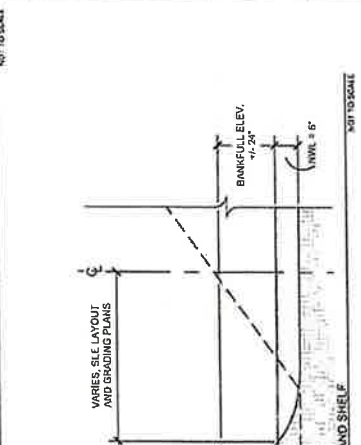
**1. STONE TOE PROTECTION**



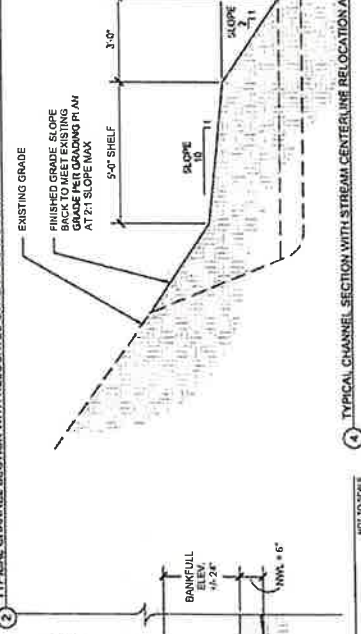
**2. TYPICAL CHANNEL SECTION WITH RELOCATED STREAM CENTERLINE**



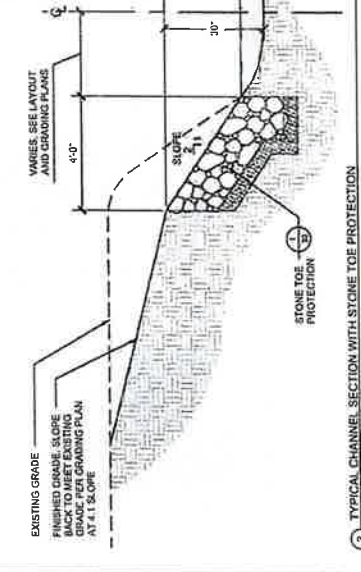
**3. TYPICAL CHANNEL SECTION WITH STONE TOE PROTECTION**



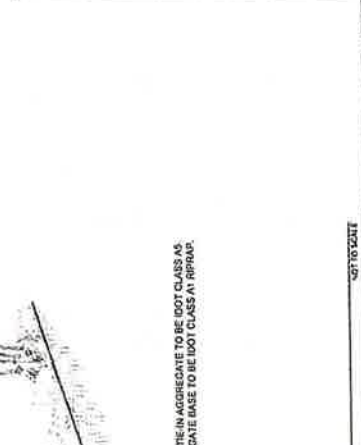
**4. TYPICAL CHANNEL SECTION WITH STREAM CENTERLINE RELOCATION AND SHELF**



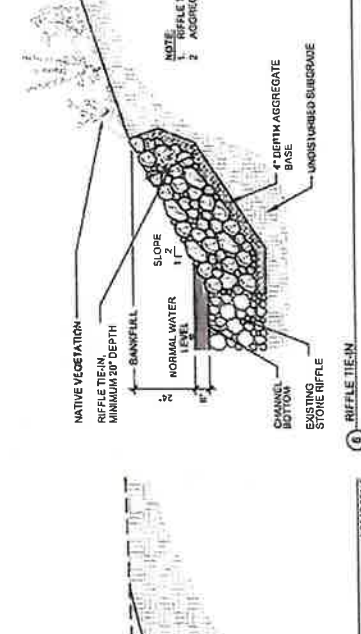
**5. TYPICAL CHANNEL SECTION WITH BANK SHAPING**



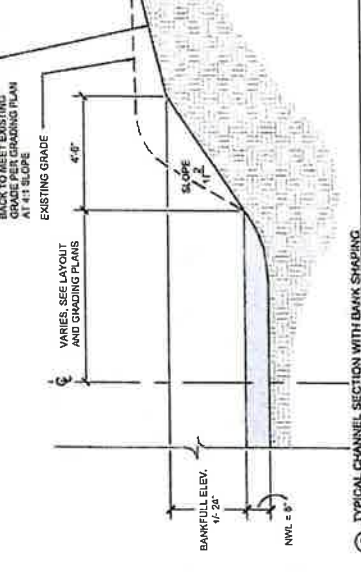
**6. RIFFLER TIE-IN**



**7. TYPICAL CHANNEL SECTION WITH RIFFLER TIE-IN**



**8. TYPICAL CHANNEL SECTION WITH RIFFLER TIE-IN**



**9. TYPICAL CHANNEL SECTION WITH RIFFLER TIE-IN**



**10. TYPICAL CHANNEL SECTION WITH RIFFLER TIE-IN**

# WINCHESTER BAY STREAM REACH 1 RESTORATION

Apple Canyon Rd downstream to Apple Canyon Lake, FL

**FINAL FOR PERMITTING**

DATE: 08/20/2013  
PROJECT: WINCHESTER BAY  
DRAWN BY: JKL  
CHECKED BY: MNP  
APPROVED BY: MNP

SCALE: 1" = 10'-0"

DATE: 08/20/2013  
PROJECT: WINCHESTER BAY  
DRAWN BY: JKL  
CHECKED BY: MNP  
APPROVED BY: MNP

**WET-MESIC PRAIRIE SEED MIXTURE**

Quantity Name	Quantity	Sp./cu ft.	Sp./cu yd.
Common Bluegrass	10.0	18.2	18.2
Intermediate Fescue	10.0	18.2	18.2
Common Fescue	10.0	18.2	18.2
Plantain	10.0	18.2	18.2
Wildflower	10.0	18.2	18.2
Wild Onion	10.0	18.2	18.2
Wild Garlic	10.0	18.2	18.2
Wild Mustard	10.0	18.2	18.2
Wild Radish	10.0	18.2	18.2
Wild Turnip	10.0	18.2	18.2
Wild Yam	10.0	18.2	18.2
Wild Sida	10.0	18.2	18.2
Wild Amaranth	10.0	18.2	18.2
Wild Aster	10.0	18.2	18.2
Wild Begonia	10.0	18.2	18.2
Wild Broomrape	10.0	18.2	18.2
Wild Cuckoo	10.0	18.2	18.2
Wild Dog	10.0	18.2	18.2
Wild Fig	10.0	18.2	18.2
Wild Geranium	10.0	18.2	18.2
Wild Groundsel	10.0	18.2	18.2
Wild Larkspur	10.0	18.2	18.2
Wild Lythrum	10.0	18.2	18.2
Wild Monarda	10.0	18.2	18.2
Wild Penstemon	10.0	18.2	18.2
Wild Phlox	10.0	18.2	18.2
Wild Rattlebox	10.0	18.2	18.2
Wild Rue	10.0	18.2	18.2
Wild Salvia	10.0	18.2	18.2
Wild Scilla	10.0	18.2	18.2
Wild Verbena	10.0	18.2	18.2
Wild Yarrow	10.0	18.2	18.2
Wild Zinnia	10.0	18.2	18.2
Wild Aster	10.0	18.2	18.2
Wild Begonia	10.0	18.2	18.2
Wild Broomrape	10.0	18.2	18.2
Wild Cuckoo	10.0	18.2	18.2
Wild Dog	10.0	18.2	18.2
Wild Fig	10.0	18.2	18.2
Wild Geranium	10.0	18.2	18.2
Wild Groundsel	10.0	18.2	18.2
Wild Larkspur	10.0	18.2	18.2
Wild Lythrum	10.0	18.2	18.2
Wild Monarda	10.0	18.2	18.2
Wild Penstemon	10.0	18.2	18.2
Wild Phlox	10.0	18.2	18.2
Wild Rattlebox	10.0	18.2	18.2
Wild Rue	10.0	18.2	18.2
Wild Salvia	10.0	18.2	18.2
Wild Scilla	10.0	18.2	18.2
Wild Verbena	10.0	18.2	18.2
Wild Yarrow	10.0	18.2	18.2
Wild Zinnia	10.0	18.2	18.2

**WET PRAIRIE SEED MIXTURE**

Quantity Name	Quantity	Sp./cu ft.	Sp./cu yd.
Common Bluegrass	10.0	18.2	18.2
Intermediate Fescue	10.0	18.2	18.2
Common Fescue	10.0	18.2	18.2
Plantain	10.0	18.2	18.2
Wildflower	10.0	18.2	18.2
Wild Onion	10.0	18.2	18.2
Wild Garlic	10.0	18.2	18.2
Wild Mustard	10.0	18.2	18.2
Wild Radish	10.0	18.2	18.2
Wild Turnip	10.0	18.2	18.2
Wild Yam	10.0	18.2	18.2
Wild Sida	10.0	18.2	18.2
Wild Amaranth	10.0	18.2	18.2
Wild Aster	10.0	18.2	18.2
Wild Begonia	10.0	18.2	18.2
Wild Broomrape	10.0	18.2	18.2
Wild Cuckoo	10.0	18.2	18.2
Wild Dog	10.0	18.2	18.2
Wild Fig	10.0	18.2	18.2
Wild Geranium	10.0	18.2	18.2
Wild Groundsel	10.0	18.2	18.2
Wild Larkspur	10.0	18.2	18.2
Wild Lythrum	10.0	18.2	18.2
Wild Monarda	10.0	18.2	18.2
Wild Penstemon	10.0	18.2	18.2
Wild Phlox	10.0	18.2	18.2
Wild Rattlebox	10.0	18.2	18.2
Wild Rue	10.0	18.2	18.2
Wild Salvia	10.0	18.2	18.2
Wild Scilla	10.0	18.2	18.2
Wild Verbena	10.0	18.2	18.2
Wild Yarrow	10.0	18.2	18.2
Wild Zinnia	10.0	18.2	18.2

**NATIVE TREES**

Quantity Name	Quantity	Sp./cu ft.	Sp./cu yd.
Common Bluegrass	10.0	18.2	18.2
Intermediate Fescue	10.0	18.2	18.2
Common Fescue	10.0	18.2	18.2
Plantain	10.0	18.2	18.2
Wildflower	10.0	18.2	18.2
Wild Onion	10.0	18.2	18.2
Wild Garlic	10.0	18.2	18.2
Wild Mustard	10.0	18.2	18.2
Wild Radish	10.0	18.2	18.2
Wild Turnip	10.0	18.2	18.2
Wild Yam	10.0	18.2	18.2
Wild Sida	10.0	18.2	18.2
Wild Amaranth	10.0	18.2	18.2
Wild Aster	10.0	18.2	18.2
Wild Begonia	10.0	18.2	18.2
Wild Broomrape	10.0	18.2	18.2
Wild Cuckoo	10.0	18.2	18.2
Wild Dog	10.0	18.2	18.2
Wild Fig	10.0	18.2	18.2
Wild Geranium	10.0	18.2	18.2
Wild Groundsel	10.0	18.2	18.2
Wild Larkspur	10.0	18.2	18.2
Wild Lythrum	10.0	18.2	18.2
Wild Monarda	10.0	18.2	18.2
Wild Penstemon	10.0	18.2	18.2
Wild Phlox	10.0	18.2	18.2
Wild Rattlebox	10.0	18.2	18.2
Wild Rue	10.0	18.2	18.2
Wild Salvia	10.0	18.2	18.2
Wild Scilla	10.0	18.2	18.2
Wild Verbena	10.0	18.2	18.2
Wild Yarrow	10.0	18.2	18.2
Wild Zinnia	10.0	18.2	18.2



**NOTES:**

1. WET TREE PLANTING IN PLANTING PIT. MAINTAIN FLUME CONDITION THROUGHOUT GUARANTEE PERIOD. NOTIFY ECOLOGIST UPON DELIVERY FOR INSPECTION AND LARGE WIRE INTERFERENCE CONCERNS.
2. REMOVE ALL NON-Biodegradable MATERIALS AS WELL AS ALL TWINE AND TRUNK PROTECTION SHALL BE INCIDENTAL TO TREE PLANTING AND NO ADDITIONAL DETAIL FOR ADDITIONAL INFORMATION.

**NOTES:**

1. WET TREE PLANTING IN PLANTING PIT. MAINTAIN FLUME CONDITION THROUGHOUT GUARANTEE PERIOD. NOTIFY ECOLOGIST UPON DELIVERY FOR INSPECTION AND LARGE WIRE INTERFERENCE CONCERNS.
2. REMOVE ALL NON-Biodegradable MATERIALS AS WELL AS ALL TWINE AND TRUNK PROTECTION SHALL BE INCIDENTAL TO TREE PLANTING AND NO ADDITIONAL DETAIL FOR ADDITIONAL INFORMATION.

**NOTES:**

1. WET TREE PLANTING IN PLANTING PIT. MAINTAIN FLUME CONDITION THROUGHOUT GUARANTEE PERIOD. NOTIFY ECOLOGIST UPON DELIVERY FOR INSPECTION AND LARGE WIRE INTERFERENCE CONCERNS.
2. REMOVE ALL NON-Biodegradable MATERIALS AS WELL AS ALL TWINE AND TRUNK PROTECTION SHALL BE INCIDENTAL TO TREE PLANTING AND NO ADDITIONAL DETAIL FOR ADDITIONAL INFORMATION.















# WINCHESTER BAY STREAM REACH 1 RESTORATION

E. North Apple Canyon Rd downstream to Apple Canyon Lake, IL

NO.	DATE	DESCRIPTION
1	08/11/11	Final Plan
2	08/11/11	Final Plan
3	08/11/11	Final Plan
4	08/11/11	Final Plan
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100	08/11/11	Final Plan

## CONSTRUCTION SPECIFICATIONS & NOTES

46

WORKING SHOULD BE DONE WITH A ROTARY BUSH-HOOD STYLE MOWER TO ENSURE CLIPPINGS ARE DEPLETED RATHER THAN DEPOSITED IN THESE MATS, WHICH BROTHER VEGETATION, OR THE CLIPPINGS SHOULD BE REMOVED FROM THE MOVED AREA.

33. METHOD - PRESCRIBED BURNING  
PRESCRIBED BURNING SHALL BE THE PRIMARY METHOD FOR LONG-TERM ECOLOGICAL MANAGEMENT ON THE INITIAL PLANTING OUTLINES AND MARCH/APRIL OF THE FOURTH YEAR FOLLOWING PLANTING. BURNING MUST BE CONDUCTED BY AN ENTITY EXPERIENCED IN BURN PLANNING AND PERMIT APPLICATIONS, AS WELL AS FRESH TO COMMENCEMENT OF PRESCRIBED BURNING. THE CONTRACTOR SHALL DEVELOP A BURN PLAN THAT OUTLINES A PLAN OF ACTION, IDENTIFIES CONTINGENCIES, AND LISTS THE NAMES AND PHONE NUMBERS OF DESIGNATED OFFICERS (FIRE DEPARTMENT, POLICE DEPARTMENT, ETC.) THROUGHOUT THE DURATION OF PRESCRIBED BURNING.

34. CLEAN-UP, REMOVAL, AND REPAIR  
A. CLEAN-UP: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR AT THE END OF THE WORK. ALL DEBRIS, TRASH, COLORED MATERIALS, AND OTHER MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE. ALL CLEANUP OF HAZARDOUS MATERIALS SHALL BE DONE AWAY FROM THE OWNERS PROPERTY OR ANY SUBSURFACE MATERIALS, SOILS, SANDS, GRAVLS AND PAVED AREAS SHALL BE LEFT FREE OF MUD AND DIRT. REMOVAL AFTER WORK HAS BEEN COMPLETED REMOVE TOOLS, EMPTY CONTAINERS, AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE. THIS SECTION AND DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

35. INSPECTION  
A. AT THE REQUEST OF THE OWNER, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION WITH THE OWNER TO REVIEW THE WORK COMPLETED BY THE CONTRACTOR.

36. ACCEPTANCE AND GUARANTEES (PERFORMANCE STANDARDS)  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

37. MONITORING AND MAINTENANCE  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

38. ANNUAL LETTER REPORT  
A. AN ANNUAL LETTER REPORT SHALL BE PREPARED AND SUBMITTED TO THE OWNER BY THE END OF EACH YEAR THROUGHOUT THE DURATION OF THE PROJECT. THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:  
1. A SUMMARY OF THE WORK COMPLETED DURING THE YEAR.  
2. A SUMMARY OF THE MONITORING AND MAINTENANCE ACTIVITIES.  
3. A SUMMARY OF THE PLANTING ACTIVITIES.  
4. A SUMMARY OF THE SOIL AND WATER QUALITY MONITORING.  
5. A SUMMARY OF THE VEGETATION MONITORING.  
6. A SUMMARY OF THE ANNUAL REPORTS SUBMITTED TO THE OWNER.  
7. A SUMMARY OF THE ANNUAL REPORTS SUBMITTED TO THE OWNER.  
8. A SUMMARY OF THE ANNUAL REPORTS SUBMITTED TO THE OWNER.  
9. A SUMMARY OF THE ANNUAL REPORTS SUBMITTED TO THE OWNER.  
10. A SUMMARY OF THE ANNUAL REPORTS SUBMITTED TO THE OWNER.

39. QUALITY ASSURANCE  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

40. MATERIALS  
A. ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AND SHALL BE SUBJECT TO INSPECTION AND TESTING BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

41. METHODS  
A. ALL METHODS SHALL BE OF THE HIGHEST QUALITY AND SHALL BE SUBJECT TO INSPECTION AND TESTING BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

42. PRODUCTS  
A. ALL PRODUCTS SHALL BE OF THE HIGHEST QUALITY AND SHALL BE SUBJECT TO INSPECTION AND TESTING BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

43. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

44. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

45. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

46. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

47. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

48. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

49. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

50. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

51. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

52. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

53. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

54. PROTECTION OF EXISTING UTILITIES AND STRUCTURES  
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL DAMAGES CAUSED BY THE CONTRACTOR DURING COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



Apple Canyon Lake Property Owners Association  
Board Motion Card

CATEGORY: NEW BUSINESS  
AGENDA ITEM: 12.12  
SUBJECT: 319 GRANT APPLICATION

5/21/22

Resource Environmental Solutions (RES) has completed the Final Design for the Winchester Bay Stream Reach 1 Restoration Project. Winchester Bay is the second largest inlet of water in the lake in our watershed and is the second priority of the watershed plan projects. The RES design re-meanders the stream, taking out some of the drastic ox bows currently in the stream. The plan creates some flood plains for taking nutrients out of the water in heavy rain events, armors sides of the stream in areas where there is high erosion, and creates shelves in areas of the stream where one side has a steep bank. Invasive trees and brush will also be removed with native grasses planted to help take sediment out of the water during heavy rain events. The estimated cost of the project is \$590,711.38. This project could qualify for a 319 IEPA Grant and RES will submit a grant on behalf of the Association if they will be hired to oversee the project once construction starts. 319 grant requests are due by the end of July, awards are usually revealed in February of the following year. If ACL were to submit a grant in 2022 and were awarded, work would then start in 2023. With the 319 Grant, the Association would be responsible for 40% of the project cost, approximately \$236,000.

**MOTION:** TO APPROVE THE FINAL DESIGN OF WINCHESTER BAY REACH 1 RESTORATION PROJECT DONE BY RES AND TO WORK WITH RES TO SUBMIT ACLPOA'S APPLICATION FOR A 319 IEPA GRANT BY JULY 2022.

Apple Canyon Lake Property Owners Association  
Board Motion Card

CATEGORY: NEW BUSINESS  
AGENDA ITEM: 12.12  
SUBJECT: 319 GRANT APPLICATION

5/21/22

Action Taken

MOTION MADE BY: <u><i>[Signature]</i></u> M.H.	VOTE RECORDED:
MOTION SECONDED BY: <u><i>[Signature]</i></u> T.O.	YEA: <u>7</u>
PRESIDENT: _____	NAY: <u>1</u>

Mike - Yes  
John - Yes  
Gordy - Yes  
Tom - Yes  
Steve - Yes  
Bob - Yes  
Noah - Yes  
Henry - No



## RE: Apple Canyon Lake - Winchester Bay Grant

Steve Zimmerman <szimmerman@baxterwoodman.com>

Tue 6/11/2024 7:41 AM

To:PAM OPYD <pamopyd@comcast.net>

Cc:Gary Hannon <grhannon@yahoo.com>;sgnels00@gmail.com <sgnels00@gmail.com>;michaelkyorke@gmail.com <michaelkyorke@gmail.com>;Jon Sabo <jon.sabo@applecanyonlake.org>

📎 1 attachments (15 KB)

OPC Winchester Bay Stream Reach 1.xlsx;

Hi All,

Congratulations on getting the 319 Grant for Winchester Bay Stream Reach 1. I began working on this project with Shaun Nordlie back in I believe 2019 while working for Applied Ecological Services. Shaun and I essentially put a "Critical Area" project list together that was then included as an addendum to your Apple Canyon Lake IEPA Watershed Plan. We then designed the project and provided a full construction plan set which we included in the December 2022 IEPA Grant Application to show IEPA that this was a "Shovel Ready" project which ultimately helped win the grant. Note that during this time Applied Ecological Services was acquired by RES and I left to Join Baxter & Woodman Natural Resources soon after. Shaun stuck with me through this process and RES is no longer involved in the project. Here are answers to your questions as best I can answer them.

1. Yes, I completed the 319 Grant Application (40+ hours of work) for no charge in December 2022 with a handshake agreement that if awarded, Baxter & Woodman Natural Resources would be contracted by Apple Canyon to construct the project.
2. Yes, Baxter & Woodman Natural Resources would be the Contractor.
3. Yes, the budget would remain the same if work started this coming fall/winter. Since the original cost estimate was prepared in May 2022, it is now over two years old so we would have to increase the costs by 10-15% if the projects is constructed later. Also, I'm pretty sure that IEPA will not award more money. I have insight on this because several other of my clients are facing the same potential budget problems because it took IEPA 1.5 years to award the grants. Maybe ask IEPA and see what their response is.
4. An Army Corps of Engineers permit will be required before the project can be constructed. The cost for preparing the permit app will be around \$3K. And, IEPA does not match this. If you decide that this project is a go in the next month then we could start working on the permit application right away and have the permit by September or October.
5. Just a couple recommend changes to your anticipated schedule:
  - Present-August 2024: Complete Grant Paperwork/Contract with IEPA
  - Present-August 2024: Approve Grant Contract at Board Meeting
  - August 2024-September 2024: Complete Construction contract with Baxter & Woodman
  - September 2024: Approve B&W Construction contract at Board Meeting
  - October 2024-March 2025: Tree Removal
  - April 2025-July 2025: Construction
6. Payments: B&W sends monthly invoices to you. You then submit monthly reimbursement requests to IEPA.
7. Regarding how much time you have to let IEPA know you will accept the grant- not sure because the email from IEPA does not give a date. I recommend replying to ask IEPA.
8. Regarding Project Budget: Probably easier to discuss but I'll try my best-Yes, the cost estimate dated May 9 is for \$590,711.38. What was submitted in the grant app is different for a variety of reasons. Task 4.7 (Management of Plantings for three years) is not covered by the IEPA grant and hence removed. The original cost also shows a 5% Contingency which is not allowed in the grant app so was dispersed into other task amounts. We also added Grant Management and

Interpretive Signage as required by the Grant. After all this the \$557,732 is correct (Cost Table is attached).

9. RES is no longer involved in the project and does not need to do Management Oversight.
10. Regarding getting a copy of the grant app that was submitted. IEPA started a new grant app process in December 2022 in which it is now all digital/online. You can view the grant application by accessing your GATA account.

---

**From:** PAM OPYD <pamopyd@comcast.net>

**Sent:** Monday, June 10, 2024 3:16 PM

**To:** Steve Zimmerman <szimmerman@baxterwoodman.com>; jon.sabo@applecanyonlake.org

**Cc:** Gary Hannon <grhannon@yahoo.com>; sgnels00@gmail.com; Mike Yorke <michaelkyorke@gmail.com>

**Subject:** Re: Apple Canyon Lake - Winchester Bay Grant

You don't often get email from [pamopyd@comcast.net](mailto:pamopyd@comcast.net). [Learn why this is important](#)

**\*\*\* CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Steve,

I have added Jon Sabo, our new general manager, to this email chain. In addition to the questions below, we need to know when we need to reply to the EPA stating we want to proceed with the grant. We need to understand the budget - the latest one in our files shows a total of \$590,711.38, which is \$23,979.38 less than the EPA funding analysis (\$232,092.80 ACL/\$334,639.80 EPA = \$566,732.00).

Also, do we still need to bring RES on for Management Oversight?

Please respond to everyone in this email. Jon will be reaching out with additional questions.

Pam Opyd  
630.638.1979

On 06/10/2024 11:28 AM CDT PAM OPYD <[pamopyd@comcast.net](mailto:pamopyd@comcast.net)> wrote:

Steve,

I have a couple of more questions -

How long will the Army Corps of Engineers Permit take? 6 months?  
If we wait until the end of 2025 to start this project and the cost increases - could the grant be increased as well?

Looking forward to receive the grant application.

Sincerely,

Pam Opyd  
630.638.1979

On 06/10/2024 9:18 AM CDT PAM OPYD <[pamopyd@comcast.net](mailto:pamopyd@comcast.net)>  
wrote:

Steve,

Thank you for taking my call this morning. Please send a copy of the grant as soon as possible.

Below are notes from our conversation. Can you please confirm.

1. You prepared the grant at no cost and will continue to assist with finalizing the grant contract and reporting moving forward at no cost.
2. Baxter Woodman would be the contractor.
3. The budget should be sufficient if the project starts by year-end. If it lags, there would most likely be a 10%-15% increase in costs. Would the EPA increase the grant?
4. The only additional cost outside the current budget would be the Army Corps of Engineers permit estimated at \$2,000(?). Can we use contingency for this cost?
5. Schedule:

Present thru August - Complete Grant Contract  
September Board Meeting - Approve Grant Contract  
August - September - Complete Contract with Baxter & Woodman  
October Board Meeting - Approve Construction Contract  
December - March - Remove trees, etc. (cannot start sooner and must be done in winter months due to endangered bat requirements)  
April - June - Complete actual construction work.

6. Payments - We pay invoices and then submit to EPA for 60% reimbursement.

Pam Opyd  
630.638.1979

Apple Canyon Lake Property Association: Winchester Bay Stream Reach 1, 2401142

Task	Description	Date												Mo/Yr	Mo/Yr	
		Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25			
0.1	QUARTERLY REPORTING & FINAL REPORT															
0.2	INTERPRETIVE SIGNAGE (2 SIGNS)															
1.1	SURVEY/STAKING/LAYOUT															
1.2	MOBILIZATION															
1.3	CLEARING, GRUBBING, & TREE REMOVAL															
1.4	HERBICIDING (2x)															
1.5	DISCING/TILLING (1x)															
2.1	EXCAVATION															
2.2	FILL															
2.3	FINE GRADING (2.5 TOTAL ACRES)															
2.4	CROSS VANE (4 EA) 24"-36" STONE															
2.5	RIFFLE TIE IN (IDOT CLASS A5 RIPRAP)															
2.6	STONE TOE PROTECTION (IDOT CLASS A5 RIPRAP)															
2.7	AGGREGATE BASE (IDOT CLASS A1 RIPRAP)															
2.8	RIFFLE ROCK RELOCATION (USING EXISTING STONE)															
2.9	OUTLET PROTECTION (IDOT CLASS A7 RIPRAP)															
3.1	TEMPORARY ROCK CONSTRUCTION ENTRANCE															
3.2	STAGING & STOCKPILE AREAS WITH CONSTRUCTION & SILT FENCE															
3.3	SUMP PIT & DEWATERING															
3.4	EROSION CONTROL BLANKET - MAG DS75															
3.5	EROSION CONTROL BLANKET - MAG SCS10BN															
3.6	STRAW MULCH															
4.1	WET PRAIRIE SEEDING															
4.2	WET-MESIC PRAIRIE SEEDING															
4.3	TREE PLANTING & TREE TRUNK PROTECTION (2.5 GAL)															
4.4	TURF GRASS REPAIR AND RESEEDING AS NEEDED															

\* All scopes are weather dependant.



**OPINION OF COST**

ITEM	DESCRIPTION	QUANTITY TOTAL	UNIT	Unit Price	Total Cost	Payee	Narrative of Service
<b>0</b>	<b>GRANT MANAGEMENT</b>						
0.1	QUARTERLY REPORTING & FINAL REPORT	1	LS	\$2,500.00	\$2,500.00	Apple Canyon Lakes	Reports will be completed by Baxter Woodman Natural Resources (BWNR)
0.2	INTERPRETIVE SIGNAGE (2 SIGNS)	1	LS	\$2,500.00	\$2,500.00	Apple Canyon Lakes	Interpretive signs will be designed by BWNR, but will be installed by client.
<b>SITE PREPARATION SUBTOTAL</b>					<b>\$5,000.00</b>		
<b>1</b>	<b>SITE PREPARATION</b>						
1.1	SURVEY/STAKING/LAYOUT	1	LS	\$10,000.00	\$10,000.00	Apple Canyon Lakes	Survey and layout will be done by BWNR
1.2	MOBILIZATION	1	LS	\$20,000.00	\$20,000.00	Apple Canyon Lakes	Mobilization of the equipment in and out will be done by BWNR
1.3	CLEARING, GRUBBING, & TREE REMOVAL	1	LS	\$50,000.00	\$50,000.00	Apple Canyon Lakes	BWNR will be clearing, grubbing and removing all of the woody material and burning them in brush piles.
1.4	HERBICIDING (2x)	14.98	AC	\$500.00	\$7,490.00	Apple Canyon Lakes	Herbiciding will be done in the fall of 2024 and spring of 2025 by BWNR
1.5	DISCING/TILLING (1x)	7.49	AC	\$800.00	\$5,992.00	Apple Canyon Lakes	Any areas that will need to be tilled will be done in the late spring of 2025 in preparation of seeding.
<b>SITE PREPARATION SUBTOTAL</b>					<b>\$93,482.00</b>		
<b>2</b>	<b>EARTHWORK</b>						
2.1	EXCAVATION	1,680	CY	\$25.00	\$42,000.00	Apple Canyon Lakes	All excavation work will be done by BWNR during low flow and winter months of 2024/2025
2.2	FILL	1,680	CY	\$20.00	\$33,600.00	Apple Canyon Lakes	All fill work will be done by BWNR during low flow and winter months of 2024/2025
2.3	FINE GRADING (2.5 TOTAL ACRES)	1	LS	\$40,000.00	\$40,000.00	Apple Canyon Lakes	All fine grading work will be done by BWNR during late spring/early summer months of 2025
2.4	CROSS VANE (4 EA) 24"-36" STONE	4	EA	\$3,500.00	\$14,000.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
2.5	RIFFLE TIE IN (IDOT CLASS A5 RIPRAP)	236	CY	\$150.00	\$35,400.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
2.6	STONE TOE PROTECTION (IDOT CLASS A5 RIPRAP)	543	CY	\$150.00	\$81,450.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
2.7	AGGREGATE BASE (IDOT CLASS A1 RIPRAP)	195	CY	\$150.00	\$29,250.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
2.8	RIFFLE ROCK RELOCATION (USING EXISTING STONE)	1	LS	\$10,000.00	\$10,000.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
2.9	OUTLET PROTECTION (IDOT CLASS A7 RIPRAP)	15	CY	\$300.00	\$4,500.00	Apple Canyon Lakes	All rock will be done by BWNR during low flow and winter months of 2024/2025
<b>EARTHWORK SUBTOTAL</b>					<b>\$290,200.00</b>		
<b>3</b>	<b>EROSION AND SEDIMENT CONTROL</b>						
3.1	TEMPORARY ROCK CONSTRUCTION ENTRANCE	2	EA	\$6,000.00	\$12,000.00	Apple Canyon Lakes	The construction entrance will be installed prior to construction work by BWNR
3.2	STAGING & STOCKPILE AREAS WITH CONSTRUCTION & SILT FEENCE	2	EA	\$4,000.00	\$8,000.00	Apple Canyon Lakes	The erosion control will be installed prior to construction work by BWNR
3.3	SUMP PIT & DEWATERING	1	LS	\$15,000.00	\$15,000.00	Apple Canyon Lakes	The dewatering of the creek will be done during the construction work of the creek by BWNR
3.4	EROSION CONTROL BLANKET - NAG DS75	7,611	SY	\$2.50	\$19,027.50	Apple Canyon Lakes	All stabilization of the site will be done in phases as work is being completed by BWNR
3.5	EROSION CONTROL BLANKET - NAG SC150BN	4,264	SY	\$4.50	\$19,188.00	Apple Canyon Lakes	All stabilization of the site will be done in phases as work is being completed by BWNR
3.6	STRAW MULCH	24,412	SY	\$1.80	\$43,941.60	Apple Canyon Lakes	All stabilization of the site will be done in phases as work is being completed by BWNR
<b>EROSION AND SEDIMENT CONTROL SUBTOTAL</b>					<b>\$117,157.10</b>		
<b>4</b>	<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT</b>						
4.1	WET PRAIRIE SEEDING	0.70	AC	\$4,000.00	\$2,800.00	Apple Canyon Lakes	All seeding will be done as soon as the areas are ready for the seed.
4.2	WET-MESIC PRAIRIE SEEDING	6.79	AC	\$4,000.00	\$27,160.00	Apple Canyon Lakes	All seeding will be done as soon as the areas are ready for the seed.
4.3	TREE PLANTING & TREE TRUNK PROTECTION (2.5 CAL)	19	EA	\$891.21	\$16,932.90	Apple Canyon Lakes	Trees will be installed late spring by BWNR
4.4	TURF GRASS REPAIR AND RESEEDING AS NEEDED	1.00	LS	\$5,000.00	\$5,000.00	Apple Canyon Lakes	All seeding will be done as soon as the areas are ready for the seed.
<b>ECOLOGICAL RESTORATION &amp; MANAGEMENT SUBTOTAL</b>					<b>\$51,892.90</b>		
<b>TOTAL</b>					<b>\$557,732</b>		

# Memorandum

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**To:** Board of Directors

**Date:** July 12, 2024

**From:** Jon Sabo, General Manager

**Memo:** 2023-41

**Topic:** Helm – Spillway Contract: Proposal for Labyrinth Spillway & Channel Improvements, Stage 1

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**Issue:** Bid information was sent to nine interested parties. Two bids were returned, with Helm being the only qualified bidder of the two. Helm's initial proposal was \$3,920,000. Helm cooperated with working with CMT and Jeff Rice to find ways to reduce costs by \$1,434,800. This proposal includes use of a cofferdam and an approximate 18 inch draw down. (Stage 1 does not include leveling of the dam for \$149,800, nor Channel rock excavation & removal of existing spillway for \$110,000. These Stage 2 portions of the total project will be done at a later date.) Helm's Reduced Proposal Total is \$2,485,200. Also needed is Project Management by CMT for \$300,000, and by local Project Management contract employees, Jeff Rice and Barry Kren for \$46,000.

**Recommendation:** To approve Helm's reduced proposal for Spillway & Channel Improvements Stage 1 for **\$2,485,200**; CMT Project Management **\$300,000**; local Project Management by Jeff Rice and Barry Kren as contract employees for **\$46,000**. Grand total requested for approval is **\$2,831,200**.



# Memorandum

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**To:** Board of Directors

**Date:** July 12, 2024

**From:** Jon Sabo, General Manager

**Memo:** 2024-42

**Topic:** CMT – Spillway Engineering Change Orders: Additional Monies for Design Phase and Bidding Phase Services by CMT

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**Issue:** The Board previously approved a Professional Services Agreement in May 2022 for **Design Phase services**, and an Amendment in September 2023, with a combined upper limit of \$309,000. Services were from CMT, Shannon & Wilson Engineering and two hydraulic engineering consultants, billed on a time and expense basis. Services exceeded the upper limit in the last quarter of 2023. Design Phase services were completed in December 2023. Request is to increase the upper limit by **\$21,400** to a total of \$330,400.

The Board previously approved a Professional Services Agreement in September 2023 for **Bidding Phase services**, with an upper limit of \$29,000. Services were from CMT and Shannon & Wilson Engineering, also billed on a time and expense basis. CMT reached the upper limit at the end of March 2024. Request is to increase the upper limit by **\$10,000** to a total of \$39,000.

**Recommendation:** To approve an additional total of **\$31,400** of additional monies for CMT (\$21,400 for Design Phase services and \$10,000 for Bidding Phase services).



# Memorandum

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**To:** Board of Directors

**Date:** July 12, 2024

**From:** Jon Sabo, General Manager

**Memo:** 2024-43

**Topic:** Propane Bid Acceptance 2024 - 2025

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**Issue:** A propane company needs to be selected for 2024 – 2025.

**Bids received in order of lowest to highest pre-paid bid price.**

- Saunders Oil Company, Inc.
  - o Pre-paid bid price is \$1.129 per gallon.
  - o If all pre-paid credit is used and more is needed, Saunders Propane will bill ACL a price that is discounted .20 cents less than the current truck price at that time:
- Pearl City Elevator Inc.
  - o Pre-paid fixed price: \$1.13 per gallon + applicable tax
  - o If the contracted gallons exceed the prepaid amount, additional gallons will be extended at the contract price.
- FS Propane
  - o 22,000 gallons at \$1.17 base price before taxes (commercial rate)
  - o If ACLPOA uses more than the original pre-paid gallons the price will remain the same until the contract period is done.
- Mulgrew Oil & Propane
  - o Pre-paid price for the first 22,000 gallons: \$1.29 per gallon
  - o Additional gallons purchased above 22,000 gallons will be available at \$1.34 per gallon.

**Recommendation:** To accept \_\_\_\_\_  
bid for 2024 – 2025.





Thank you for allowing us at Saunders Oil/Propane the opportunity to bid of the Apple Canyon Lake (ACL) 2024-2025 propane needs. Below is some information in regards to price and our services.

- **Keep Full Services** We use a top of the line cellular tank monitoring device that plugs into each tank to be serviced, regardless of tank size/usage. The device updates every time the tank changes 5% in level, or every 24 hours. These tank levels are then sent to an app on our phones/computers. Once we see a tank has gone below 30%, we will then dispatch a truck to fill the desired tank. These monitors are of no cost to the association. We also have the ability to share a link, to allow for someone at the association to gain access to the tank levels also on their phone. The monitors are accurate up to 5 gallons +/- The monitor also aids in monitoring for leaks. If the monitor notices a "rapid draw" we will be notified of an abnormal amount of usage in the tank. In which we would then come on site and inspect said tank.
- **24/7 Service** We have a 24/7 answering service at our office that will alert us of any needs. We have 1-2 people on call at all times weekend, night, or holidays to service any needs. Also, if awarded the bid, I (Keegan Kent) will ensure that the association is made aware of our personal phone numbers to ensure lines of communication are set up.
- **Insurance** A copy of our certificate of liability insurance is included with this. If Saunders Propane is awarded the bid I will add ACL Property Owners Association as a certificate of insurance holder as well.
- **Unused Credit** If the ACL does not use all of the prepaid money. The association will have the choice to carry the credit over to the next heating season, or we can cut a check in the amount of the unused credit back to the ACL.
- **Additional Gallons** If the ACL does use all of their prepaid credit and is need of more propane. Saunders Propane will bill ACL a price that is discounted .20 cents less than the current truck price at that time.
- **Prepay Bid Price** Our prepay bid price for 24/25 is **1.129** per gallon

Thank you for the opportunity and look forward to working with the association in the future. Please inform us of the results if possible

(815)297-5411 Keegan

(815)745-2267 Office

[Saunderspropane@gmail.com](mailto:Saunderspropane@gmail.com)

A handwritten signature in black ink, appearing to be "Keegan Kent", is written over a horizontal line. The signature is stylized and cursive.

Keegan Kent



Apple Canyon Lake Property Owners Association  
Attn: Jon Sabo, GM  
14A154 Canyon Club Drive  
Apple River, IL 61001

**2024-2025 Propane Gas Bid- Apple Canyon Lake Property Owners Association**

Propane Gas Pre-paid Fixed price:

**\$1.13 per gallon + applicable tax**

2. All leased tanks are automatically enrolled in our keep full program and equipped with a tank monitoring system which sends the gauge reading to our driver daily. Any privately owned tanks that would like to be kept on a keep full program would need to be willing to have a tank monitoring system.
4. Please see attached proof of insurance.
5. Any unused pre-paid money will be carried over as a credit to be used the following year. In the event that we are not the supplier for the following year, a refund will be issued after the leased tanks are picked up.
6. If the contracted gallons exceeds the prepaid amount, additional gallons will be extended at the contract price.

Please let me know if you have any additional questions.

Thank you,

Joselyn Van Ruyven  
Certified Energy Specialist  
Pearl City Elevator

[jvanruyven@pce-coops.com](mailto:jvanruyven@pce-coops.com)

C: 815-541-7717

## PROPOSED PROGRAM



### A. EXPECTED RESULTS

Stephenson Service Company will service all propane tanks for the ACLPOA. If awarded this bid, Stephenson Service Company will leak check all systems at no additional charge. If a leak is detected, our CETP qualified propane technicians will repair the leak at a rate of \$90.00 per hour plus material cost. We strive to maintain a high awareness of safety for all Apple Canyon Lake Employees, Property Owners, and their Guest at Apple Canyon Lake. **A detected leak could lead to an explosion and harm to others. 24-hour contact numbers will be available at all times.**

### B. TECHNICAL INFORMATION

Stephenson Service Company will provide a **keep-full service** for all propane tanks owned by ACLPOA. **All your tanks will be equipped with remote tank monitors. This will give us the ability to see your tank levels 24-7.** Our keep-full policy is supported by a degree day system which allows us to return and fill propane tanks before the inventory is depleted.

Stephenson Service Company is prepared to offer a propane gas bid starting August 1, 2024 and end July 31, 2025. **If ACLPOA uses more than their original prepaid gallons, the price will remain the same until the contract period is done.** If there is additional unused gas at the end of the contract, Stephenson Service Company will send a cash refund to the ACLPOA upon your request.

Stephenson Service Company operates eight delivery trucks out of Elizabeth, Lena and Freeport Illinois. Additionally, Stephenson Service employs three full time service technicians which are based out of Elizabeth as well. ACLPOA can be assured that they are trained and qualified to handle any service work needed by the ACLPOA.

## PRICING AND TERMS



### Propane Gas Pricing

For the estimated gallons listed in the ACLPOA bid is as follows:

22,000 Gallons @ **1.17 Base Price Before Taxes (Commercial Rate)**

**Total cost: \$25,740.00 Before Sales Tax**





June 12, 2024

ACLPOA – Commercial Propane Bid

Thank you for the opportunity to bid your commercial LP needs. As per your request. Below are answers to your bid questions.

1. Mulgrew Oil and Propane pre-paid price for the first 22,000 gallons would be \$1.29 per gallon.
2. Contract will run from August 1, 2024 to July 31, 2025.
3. Your various tanks will be placed on our routes and tracked by our personnel to estimate your usage. Your tanks will be filled when they are below 50% or when a driver is in the area they will be topped off.
4. Mulgrew Oil and Propane operates an "on-call" service which allows us to offer emergency services - 24 hours a day and 7 days a week.
5. Insurance coverage is as follows:
  - a. General Liability = \$1 million per occurrence with \$2 million aggregate
  - b. Workers Compensation of \$1 million per incident
6. A. Unused Pre-Paid Gallons expire at the end of a contract. Contract dollars on the account will be carried over as a credit on your account to be used towards future purchases or can be refunded at your request.  
B. Additional gallons purchased above 22,000 gallons will be available at \$1.34 per gallon

If you have any questions, please feel free to contact me at (563) 845-8359.

A handwritten signature in black ink that reads 'Dennis C Jaeger'.

Dennis Jaeger

Mulgrew Oil and Propane Co.



# Memorandum

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**To:** Board of Directors

**Date:** July 12, 2024

**From:** ACLPOA

**Memo:** 2024-46

**Topic:** Food & Beverage Commission

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**Issue:**

**Recommendation:**