

TO: Board of Commissioners
FROM: Rob Sperl, Director of Parks & Planning
THROUGH: Michael Benard, Executive Director
RE: Arrowhead Berm Repair
DATE: May 7, 2020



SUMMARY:

On May 10, 2019 significant rainfall caused a breach in a berm on the east course between the 13th and 18th tees. This breach caused extensive flooding and associated damage to the course rendering it unplayable for several days. This is summarized in the attached letter from DuPage County.

This berm was created as a part of the Hesterman drain project initiated in 1984/85 shortly after we acquired the course. Prior to this project, stormwater flowed from Herrick Forest Preserve, through the west course, and across Butterfield Road into the Arrowhead subdivision causing extensive flooding damage along this route. The project diverted this flow along Butterfield Road, through the east course continuing through the Danada Forest Preserve, and the former AT&T/Lucent properties.

The original partners for this project included: DuPage County, Milton Township, City of Wheaton, Forest Preserve District of DuPage County, AT&T Bell Laboratories and Wheaton Park District. As a regional stormwater project, we continue to be bound by the agreements and amendments as well as stormwater and wetland regulations by DuPage County.

Following the meeting and subsequent correspondence from DuPage County, we made temporary repairs and contracted Engineering Resource Associates (the engineer of the most recent improvements at the course). On April 20, 2020 we were advised the permit was approved.

Using the plans and specifications provided by ERA, proposals were requested from contractors who have done previous work for the district or were recommended.

We were permitted to install up to 300' linear feet of 6' deep sheet pile. The base amount is for 12' linear feet to repair the area of the breach. The alternate is for additional 12' linear foot segments of sheet pile.

Proposals were received on May 1. Below is a summary of the proposals received:

Contractor	Base	Alternate 1 – Add 12’ sheet pile
V3	\$ 44,000.00*	\$ 3,240.00
Encap	\$ 58,992.40	\$ 9,720.00
Martam	\$ 63,153.00	\$ 5,760.00
Semper Fi	\$ 89,804.00	\$ 19,800.00
Cardno	Not able to provide quote	

*V3 proposed using 75 linear feet of crane matting to cross the fairway in place of the 300 linear feet specified and stated they would restore any damaged areas. Upon further discussion, V3 indicated an additional savings of \$5,000 is possible if we use plywood sheeting in place of crane matting.

Our original engineers estimate indicated that this work could be done below the bid limit. Some additional permit requirements increased the estimate. We proceeded with obtaining quotes rather than bidding to facilitate getting this work done as quick as possible with quality contractors and minimizing the number of staff and consultants involved.

ERA has provided a recommendation to complete the sheet piling from the west end to the breach for a total of 120 linear feet. This is an additional 9 sections at \$3,240 for a total alternate cost of \$29,160.00.

V3 has previously done work at Central Athletic Complex, Cosley Zoo/Prairie parking lot and on the pond at Rathje Park.

PREVIOUS COMMITTEE/BOARD ACTION:

The project was discussed at the June 5, 2019 Building and Grounds meeting.

REVENUE OR FUNDING IMPLICATIONS:

A claim was filed with PDRMA, which was denied. We will appeal with the actual costs we have incurred.

Engineering Resources Associates agreement	\$ 8,750
Recommended contract with V3	\$39,000
Additional sheet piling (9 sections)	<u>\$29,160</u> for a total of 120 linear feet
Total	\$68,160

STAKEHOLDER PROCESS:

N/A

LEGAL REVIEW:

We are seeking an opinion on the applicability of this work to the emergency provisions of our Purchasing Policy provided in the April 29, 2020 subcommittee packet with excerpt below:

8. Emergency purchases are sometimes required. If an emergency occurs and the Executive Director determines that an expenditure that is in excess of \$9,999.99 is needed, this policy permits the Executive Director of the District to authorize such a purchase and directs that the Executive Director shall individually contact the Board of Commissioners to advise them of same. Executive Director shall make every reasonable effort to contact each commissioner within five business days. Further, such a purchase shall be presented for approval at the next scheduled meeting of the Board of Park Commissioners. The District may make emergency procurements without competitive sealed bidding or prior notice when there exists a threat to public health or public safety, or when immediate expenditure is necessary for repairs to District property in order to protect against further loss of or damage to District property, to prevent or minimize serious disruption in critical District services that affect health, safety, or collection of substantial District revenues, or to ensure the integrity of District records. (See ILCS 500/20-30).

ATTACHMENTS:

DuPage County Stormwater letter dated June 28, 2019
PDRMA response dated June 26, 2019
Plan overview dated January 2020
Recommendation from ERA dated May 6, 2020

ALTERNATIVES:

If we wanted to reduce the cost, we could consider installing less sheet piling to just cover the extents of the existing breach.

RECOMMENDATION:

It is recommended that the Wheaton Park District Board of Commissioner's approve a contract in an amount not to exceed for the base \$39,000 and an additional \$29,160 for a total of 120 linear feet of sheet pile per the alternate from V3 for repair of the berm at Arrowhead Golf Club.



To:	Wheaton Park District	Contact:	Justin Kirtland
Address:	102 E. Wesley Street Wheaton, Illinois 60187	Phone:	630-690-4880
Project Name:	Arrowhead East Berm Repairs	Email:	jkirtland@wheatonparks.org
Location:	Arrowhead Golf Course 26W151 Butterfield Rd, Wheaton, Illinois	Ref #:	B20056
		Date:	5/1/2020
		Addenda:	NONE

BERM REPAIR PROPOSAL		QUANTITY	UNIT	UNIT PRICE	TOTAL
1	PRE-CONSTRUCTION VIDEO TAPING	1.000	L Sum	\$ 250.00	\$ 250.00
2	MOBILIZATION	1.000	L Sum	\$ 10,287.75	\$ 10,287.75
3	TRAFFIC CONTROL AND PROTECTION	1.000	L Sum	\$ 120.00	\$ 120.00
4	SILT FENCE	1,009.000	LF	\$ 3.25	\$ 3,279.25
5	WOOD MATS ⁽¹⁾	90.000	LF	\$ 92.00	\$ 8,280.00
6	STEEL SHEET PILE WALL	72.000	SF	\$ 50.00	\$ 3,600.00
7	ENGINEERED FILL	65.000	CY	\$ 100.00	\$ 6,500.00
8	TOPSOIL FURNISH & PLACE, 12"	90.000	SF	\$ 20.00	\$ 1,800.00
9	IDOT CLASS 4 SEED MIX	0.121	Acre	\$ 25,000.00	\$ 3,025.00
10	TEMPORARY EROSION CONTROL BLANKET	586.000	SY	\$ 3.00	\$ 1,758.00
11	ECOLOGICAL MANAGEMENT	3.000	YEAR	\$ 1,200.00	\$ 3,600.00
12	MOWING (1/YEAR)	3.000	YEAR	\$ 500.00	\$ 1,500.00
BASE BID TOTAL:					\$ 44,000.00

Alternate 1 - ADDITIONAL SEGMENTS OF 12 LF STEEL SHEET PILE WALL

ADD 12 LF STEEL SHEET PILE WALL	72.000	SF	\$ 45.00	\$ 3,240.00
---------------------------------	--------	----	----------	-------------

ALTERNATE #1 TOTAL: \$ 3,240.00

Project Notes:

- 1.0 We have included timber mat installation from the service drive across the fairway only. All areas disturbed on the berm will be regraded and restored per the specifications.
- 2.0 We have provided alternate pricing for installation of additional 12 LF sections of sheeting per the drawings and specifications. If all three hundred feet of sheet piling were awarded we offer a deduct of \$5,000.00 from our bid total.

<p>ACCEPTED:</p> <p style="text-align: center;"><i>The above prices, specifications and conditions are satisfactory and hereby accepted.</i></p> <p>Purchaser: _____ Wheaton Park District</p> <p>Signature: _____</p> <p>Printed Name: _____</p> <p>Date: _____</p>	<p>CONFIRMED:</p> <p style="text-align: center;"><i>The above prices, specifications and conditions are satisfactory and hereby confirmed.</i></p> <p>Seller: _____ V3 Construction Group, Ltd.</p> <p>Signature: _____</p> <p>Printed Name: _____</p> <p>Date: _____</p>
---	--

From: Phil Luetkehans <pal@lbgalaw.com>
Date: May 12, 2020 at 6:44:41 AM CDT
To: Mike Benard <m benard@wheatonparks.org>
Subject: RE: SOI Arrowhead Berm Repair.doc

Mike,

Per your request, I have reviewed the memo and language from the Purchasing Policy related to emergency repairs, as well as having spoken with you about the background and issues involved. Based upon the language in Section 8 of the memo, I believe an emergency exists under that Section that allows the Park District to proceed with entering into the contract without competitive bidding in order to avoid further loss or damage to Park District property in the event of another significant storm event. In my opinion, this is the exact type of scenario that Section 8 is intended to be used for. This action is also allowed under the Illinois Park District Code. Note that 70 ILCS 1205/8-1 requires, however, that the emergency expenditure be approved by a 3/4th's vote of the Commissioners present. I would also make sure that when the Board votes on the action, that it include the basis in the record as to why it is an emergency and why there was not time to competitively bid the project.

If you have any questions or wish to discuss this matter more thoroughly, please do not hesitate to contact me.

Very truly yours,

Phil

Phillip A. Luetkehans
Principal

Luetkehans, Brady, Garner & Armstrong, LLC
105 E Irving Park Road
Itasca, IL 60143
Direct: 630/760-4601 Office: 630/773-8500
Mobile: 630/917-6475 Fax: 630/773-1006
PAL@lbgalaw.com
www.slg-atty.com



**DUPAGE
COUNTY**

Watershed
Management

Water
Quality

Floodplain
Mapping

Regulatory
Services

Flood Operations
& Maintenance

Shared
Services



STORMWATER MANAGEMENT

Mr. Michael Benard
Executive Director
Wheaton Park District
102 E Wesley Street
Wheaton, IL 60187

June 28, 2019

RE: Findings from Site Visit; Arrow Head Golf Course

Dear Mr. Benard,

This letter is to detail the findings from the site visit DuPage County staff made on Friday, May 10, 2019 to the northeast corner of the Arrowhead Golf Course. DuPage County Stormwater Management staff was accompanied by employees from the Wheaton Park District and a representative from Engineering Resource Associates (ERA), a local engineering solutions consulting firm.

The purpose of the visit was to evaluate the situation causing a portion of the golf course that is normally dry to be inundated with water and to discuss solutions, both temporary and permanent. It should be understood that this portion of the Arrowhead golf course is adjacent to environmentally sensitive areas and therefore repairs, both temporary and permanent cannot be completed without permission from DuPage County Stormwater Management, the regulatory agency that oversees the DuPage County Countywide Stormwater and Floodplain Ordinance, to ensure that wetlands and waterways are not negatively impacted.

It was documented during the site visit that the higher than normal water levels within the channel increased the pore water pressure onto the adjacent banks, which lead to a blow out in the bank. The record setting rainfall experienced in spring 2019 caused the channel elevations to be high for an extended duration. Through this blow out, the channel flow diverted into the adjacent area which is meant to be dry.

Clayey soils (Hydrologic Soil Group Type C), as found in DuPage County, reach a critical state when exposed to extended saturation and head pressure, which can make them more viscous and susceptible to failures like landslide and blow outs due to shear viscosity.

During our site visit, the representative from ERA and DuPage County Stormwater Management staff agreed upon a temporary solution noting that the permanent solution will need to be submitted for Stormwater certification from DuPage County Stormwater Management. As the soils have experienced saturation, solutions for repair will either

require a stream diversion to allow for soils to dry enough to restore non-viscous properties or a structural solution that will impose a non-penetrable barrier. The non-penetrable barrier will reduce impacts on adjacent wetlands and waterways.

As a follow up to the site visit, Wheaton Park District staff has provided an acceptable temporary solution and is working with ERA on a permanent solution to repair the blow hole and the impacts of the second wettest spring n record.

If you have any additional questions or seek additional consultation, please feel to contact me directly at (630) 407-6676.

Sincerely,

A handwritten signature in cursive script that reads "Sarah Hunn".

Sarah Hunn, P.E, CFM
Deputy Director
DuPage County Stormwater Management

June 26, 2019

Bruce Stoller
Wheaton Park District
Arrowhead Golf Course
20W151 Butterfield Road
Wheaton, IL 60189

RE: Claim #: 1RB054069
Date of Loss: 5/10/19

Dear Bruce:

We have completed our coverage review for the above referenced incident. Based on the information provided the damages occurred to the turf between hole #10 and #13.

PDRMA Coverage Document provides a broad range of coverage including coverage for items not typically covered under a commercial property policy. However, like any commercial property coverage, there are certain terms and conditions that limit coverage.

We would like to refer you to the PDRMA Property Coverage Document which indicates:

SECTION II

PHYSICAL DAMAGE TO PROPERTY

A. COVERAGE

Subject to the terms, conditions and exclusions hereinafter contained, this Coverage Document provides coverage for all property of every description of an insurable nature, both real and personal (including improvements and betterments), of the Members. . .

Then we refer you to:

C. Property Not Covered

6. Land, (including land on which covered property is located), and land values except athletic fields, golf course tees, greens and sand traps.

Since there was no damage to tees, greens or sand traps there is not covered damage to covered property. We are unable to provide coverage for the damages associated with this loss.

We regret we could not advise you more favorably. Please feel free to contact me with any questions or comments.

Sincerely,



Betty Dawson, AIC
Claims Consultant



DATE: 01/16/2021 10:00 AM

LEGEND

- SEEDING (0.1% SLOPE)
- AREA OF DIVERTED FILL
- ROAD WAYS
- DOUBLE ROW BELT FILTER
- 100 YEAR FLOODPLAIN
- WETLAND BOUNDARY

NOTE: WETLAND BOUNDARIES WERE VERIFIED BY A COUNTY REPRESENTATIVE ON JANUARY 16, 2021.



LOCATION MAP



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY: A.J.
 CHECKED BY: E.C.
 APPROVED BY: E.C.



36701 WEST AVENUE, SUITE 180
 WARRICKVILLE, ILLINOIS 60090
 PHONE: (800) 286-0060
 FAX: (630) 385-2152

10 S. RIVERSIDE PLAZA, SUITE 675
 CHICAGO, ILLINOIS 60606
 PHONE: (312) 474-7641
 FAX: (312) 474-6099

2418 GALEN DRIVE
 CHAMPAIGN, ILLINOIS 61821
 PHONE: (313) 363-6098
 FAX: (313) 366-4302

WHEATON PARK DISTRICT
 WHEATON, ILLINOIS

TITLE: **ARROWHEAD EAST BERM REPAIR PROPOSED CONDITIONS**

SCALE: 1" = 20'
 DATE: JANUARY, 2021
 JOB NO: 190511
 SHEET: 2 of 3



ENGINEERING
RESOURCE ASSOCIATES

ENGINEERS | SCIENTISTS | SURVEYORS

May 6, 2020

Mr. Rob Sperl
Director of Parks and Planning
Wheaton Park District
855 W Prairie Ave
Wheaton, IL 60187

**SUBJECT: Arrowhead East Berm Repair Project
Summary of Quotes and Award Recommendation**

Dear Rob:

The Park District received quotes from V3 Companies, Semper Fi Land Inc., Encap, and Martam Construction for the Arrowhead East Berm Repair project. The engineer's estimate for the project was \$31,443.00.

The apparent low bidder for the project is V3 Companies, with a base services quote of \$44,000. The cost for wood mats came in significantly higher than the estimate. The purpose of the wood mats are to reduce rutting from machinery. Please note that V3 proposed using 75 linear feet of wood mats to cross the fairway in place of the 300 linear feet specified and stated they would restore any damaged areas. Engineering Resource Associates, Inc. (ERA) contacted V3 to see if plywood sheets could be used in place of wood mats and they replied that they would be willing to use plywood for a price reduction of \$5,000.00. This results in a revised base services quote of \$39,000.00.

The permit from DuPage County allows installation of up to 300 linear feet of 6' deep sheet pile. The base services included 12 linear feet of sheet pile wall, the minimum necessary to stabilize the berm breach between Rott Creek and the basin west of the tee box. Therefore, one alternate for additional 12' linear foot segments of sheet pile was requested. V3's cost for the alternate was \$3,240.00 for each additional 12' segment, with an additional \$5,000.00 reduction if all 300' that was permitted is installed. The total for the additional 288 linear feet is \$72,760.00. The total project cost including all 300' is \$111,760.00.

A conservative approach to stabilizing the berm segment west of the tee box would be to install sheet piles from the western most limit of the project to the tee box. This segment is 120 linear feet, and nine additional 12' sections would be required. The cost of the additional piles for this segment would be \$29,160.00. This would eliminate the need for future access to this area to install the piles that were permitted. The segments further to the east could be installed at a later date in the event that it appears that an additional breach may occur in that section.

WARRENVILLE

3s701 West Avenue, Suite 150
Warrenville, IL 60555
P 630.393.3060

CHICAGO

10 South Riverside Plaza, Suite 875
Chicago, IL 60606
P 312.474.7841

CHAMPAIGN

2416 Galen Drive
Champaign, IL 61821
P 217.351.6268

www.eraconsultants.com

V3 Companies has submitted all documents requested. Based on the information above and positive experience with V3, we recommend that the Wheaton Park District consider awarding the Arrowhead East Berm Repair project contract to V3 Companies for the base services quote of \$39,000.00. In the event that additional outside funding becomes available we recommend proceeding with the 120 foot section west of the tee box for the base services quote and 9 additional alternate segments for a total of \$68,160.00. Please advise if you have any questions or comments.

Respectfully submitted,
ENGINEERING RESOURCE ASSOCIATES, INC.



Erin Pande, PWS, CFM
Ecological Services Director

