

AGENDA

Red Run Intercounty Drain Drainage Board Macomb and Oakland Counties

October 21, 2020 – 10 a.m.
Via GoToMeeting

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development
Candice Miller, Macomb County Public Works Commissioner
Jim Nash, Oakland County Water Resources Commissioner

2. Approval of the meeting agenda for October 21, 2020
3. Approval of Drainage District Board Meeting Minutes from September 16, 2020
4. Public Comment
5. Freedom Hill grant updates
6. Annual drain inspection walkthrough update
7. Present trial balance
8. Present for approval HRC invoice no. in the amount of \$5,510.21
9. Determine date and location of next meeting
10. Other business
11. Adjourn

Agenda Item No. 3

Board Meeting Minutes from
September 16, 2020

Minutes of the Meeting
of the Intercounty Drainage Board for the
Red Run Drain

September 16, 2020

A meeting of the Drainage Board for the Red Run Intercounty Drain was held via GoToMeeting on September 16, 2020. The meeting was called to order by the Chairperson at 10:06 a.m.

Present: Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Brian Baker for Candice Miller, Member and Macomb County Public Works Commissioner; and Jim Nash, Secretary and Oakland County Water Resources Commissioner.

Also Present: Representing the office of Macomb County Public Works Commissioner: Jeff Bednar. Representing the office of the Oakland County Water Resources Commissioner: Steven Korth, George Nichols and Megan Koss. Others in attendance: Jamie Burton and Lynne Seymour (Hubbell, Roth & Clark).

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 10:06 a.m. The Chairperson made a brief statement regarding the ongoing COVID-19 pandemic and, as a result, the need for the meeting to be held via GoToMeeting. He indicated that the meeting was being held in compliance with the Governor's Executive Order 2020-154, which provide that meetings can be held electronically while satisfying the tenants of the Open Meetings Act, so long as a quorum is met and meaningful public participation is guaranteed.

2. Agenda.

Motion by Nash, supported by Baker, to approve the September 16, 2020 agenda as presented.

ROLL CALL VOTE:

GREGG: AYE
BAKER: AYE
NASH: AYE

3. Minutes.

Motion by Baker, supported by Nash, to approve the minutes of the August 26, 2020 meeting.

ROLL CALL VOTE:

GREGG: AYE
BAKER: AYE
NASH: AYE

4. Public Comment. None.

5. Presentation of Final Operations and Maintenance Plan and Board Adoption.

Jamie Burton (HRC) provided a comprehensive overview of the various edits to the Executive Summary as requested by the Board at the August 26, 2020 meeting. Mr. Burton detailed modification of the repair and maintenance plan, noting that items such as stormwater improvement projects and green infrastructure were specifically identified. Jeff Bednar indicated that the plan provided flexibility for the Board in terms of projects and how to proceed now and in the future

Mr. Gregg inquired about the prioritization of maintenance projects. Mr. Burton said that, while the plan provides overarching, general guidance, that it makes the most sense to approach projects in terms of geography as opposed to scope. Mr. Korth furthered that regardless of the approach, it is important to continue to pursue various grants for funding opportunities. Discussion then ensued regarding whether a petition would be required to fund the various projects. Ultimately, it was agreed that while the projects were called “capital improvements”, they are more akin to maintenance and as such, no petition would be required.

Motion by Baker, supported by Nash, to approve the study for the operations and maintenance of the Drainage District.

ROLL CALL VOTE:

GREGG: AYE
BAKER: AYE
NASH: AYE

6. HRC update on Freedom Hill Project Scope Phasing and Tributary Spill Response Evaluation
Mr. Burton gave an update on both the tributary spill response evaluation and Freedom Hill project. As to the spill response, he noted that the evaluation was moving forward and additional updates would be provided at future meetings. As to the Freedom Hill project, he indicated that a productive meeting had taken place with the Counties. He furthered that a notice of intent for stream bank work was discussed, as well as grant applications to support the aforementioned.
7. Annual Drain Inspection Walkthrough.
Mr. Nichols provided an update regarding the rescheduling of the annual drain inspection walkthrough with the Army Corps. Mr. Nichols indicated that the walkthrough would commence October 1, 2020 at 9 a.m. and that attendees would be limited due to the ongoing pandemic.
8. Trial Balance.
Mr. Korth presented the Trial Balance report dated September 8, 2020 (as attached) indicating a net cash balance of \$96,588.60. It was moved by Nash, supported by Baker, to receive and file the updated Trial Balance as provided.

ROLL CALL VOTE:

GREGG: AYE
BAKER: AYE
NASH: AYE

9. Present Request for Approval of Invoice.

HRC invoice no. 181820 in the amount of \$47,607.22 was presented for consideration. It was moved by Baker, supported by Nash, to approve the invoice in the amount of \$47,607.22.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

10. Other Business.

Discussion took place regarding the need for and scheduling of the next Drain Board meeting. It was determined that the next meeting would take place on October 21, 2020, with the time to-be-determined depending on the necessity of other Chapter 21 meetings.

11. Adjourn.

Motion by Nash, supported by Baker, to adjourn the September 16, 2020 meeting at 11a.m.

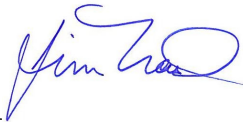
ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

Next Regular Meeting: October 21, 2020. Due to the ongoing COVID-19 pandemic, the October meeting will be held virtually via GoToMeeting.



Jim Nash, Secretary

Red Run Intercounty Drain Drainage Board

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of the Red Run Intercounty Drain Drainage Board, at a meeting held on the 16th of September, 2020 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976 and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 5th day of October, 2020.



Jim Nash, Secretary
Red Run Intercounty Drain Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Freedom Hill grant updates

October 12, 2020

Drainage Board for the Red Run Intercounty Drain
 c/o Oakland County Water Resources Commissioner
 One Public Works Drive
 Building 95 West
 Waterford, Michigan 48328

Attn: Mr. George P. Nichols, P.E. Civil Engineer III

Re: Study for the Repair, Maintenance, and Management of the
 Red Run Intercounty Drain
 Freedom Hill NPS Grant Application

HRC Job No. 20180676

Dear Mr. Nichols:

On behalf of the project team of Hubbell, Roth & Clark, Inc. (HRC) and the Spicer Group, Inc. (Spicer), we would first like to thank you for the opportunity to assist on this important project. As you are aware, working with staff from Oakland County Water Resources Commissioner's Office, the Macomb County Public Works Office, and Michigan Department of Agriculture and Rural Development (MDARD), we have identified priority projects, costs, and a practical approach to facilitate on going management and capital improvement project implementation. Based on this work and coordination with other agencies, the bank stabilization work along Freedom Hill has received initial funding from the National Fish and Wildlife Foundation Southeast Michigan Resilience Fund. To leverage this funding, the Macomb County Public Works Office submitted a Notice of Intent through the Michigan Department of Environment, Great Lakes, and Energy's (EGLE) Nonpoint Source (NPS) Grant program. The NOI was accepted and a full application is due on November 6, 2020. Based on our phone call on October 9, 2020, HRC is pleased to provide this proposal for preparing the full grant application.

The preparation of the full grant application will require the following tasks:

- ≡ Site Visit with EGLE
- ≡ Determine Bank Erosion Rate/Sediment Loading Impacts
- ≡ Prepare Detailed Work Plan
- ≡ Prepare Budget
- ≡ Prepare Exhibits
- ≡ Draft Letters of Commitment (The facilitation/finalization of the partner commitment is to be done by Macomb County)

We appreciate your consideration for the proposed project totaling \$6,900. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



James F. Burton, P.E.
 Vice President

pc: HRC; File

Delhi Township
 2101 Aurelius Rd.
 Suite 2A
 Holt, MI 48842
 517-694-7760

Detroit
 535 Griswold St.
 Buhl Building, Ste 1650
 Detroit, MI 48226
 313-965-3330

Grand Rapids
 1925 Breton Road SE
 Suite 100
 Grand Rapids, MI 49506
 616-454-4286

Howell
 105 W. Grand River
 Howell, MI 48843
 517-552-9199

Jackson
 401 S. Mechanic St.
 Suite B
 Jackson, MI 49201
 517-292-1295

Kalamazoo
 834 King Highway
 Suite 107
 Kalamazoo, MI 49001
 269-665-2005

Lansing
 215 S. Washington SQ
 Suite D
 Lansing, MI 48933
 517-292-1488

Description of Issue

- Moderate to severe bank erosion due to shear stress (specifically at the bend)
- Localized slope instability due to long-term saturation and rapid draw down conditions
- Slope instability has been attributed to relatively steep slopes combined with erosion at the toe

Estimate of Costs

\$4.2 M

Recommended Solution

- Reshape upper bank slopes similar to the “Red Run Open Drain Slope Stabilization” project completed by USACE, west of Ryan Road
- Install stone toe and in-stream structures to protect the toe slope
- Install groundwater interceptor drains to discharge groundwater into the groundwater outfalls.
- Stabilize with native seed on the upper bank
- Repair of the outfalls within project area
- Remove shoaling (or excess sediment deposition) areas in project area

Collaborators/Partnerships

- Oakland County Water Resources Commissioner
- Macomb County Department of Public Works
- City of Sterling Heights
- US Army Corps of Engineers, Detroit District
- Clinton River Watershed Council
- Macomb County Planning & Economic Development

Funding Opportunities

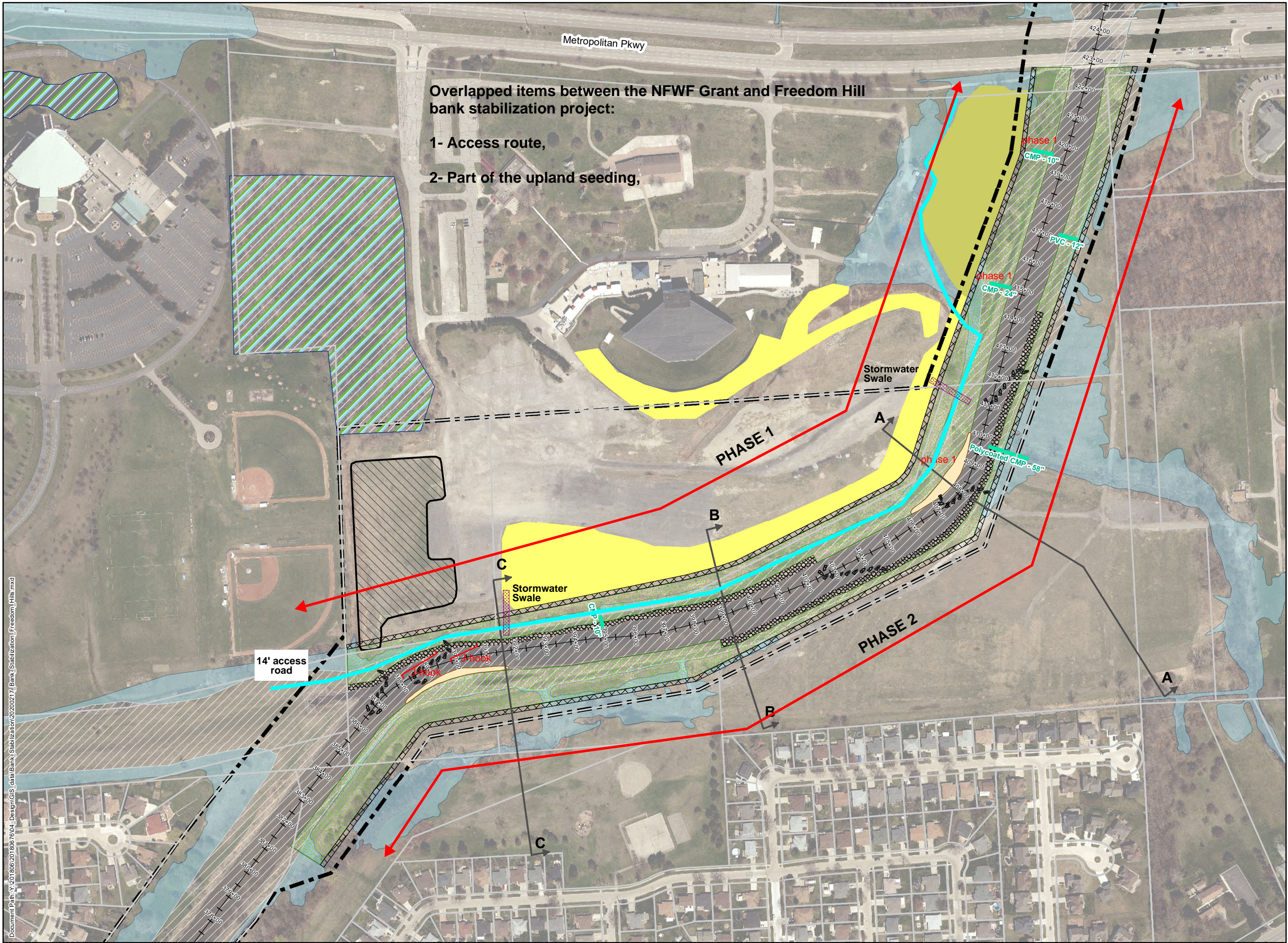
- USACE
- EPA GLRI
- EGLE 319
- Local Match — Drainage District

Location Map



Photo of the Problem





Study for Repair, Maintenance, and Management of the Red Run Intercounty Drain

C₁ - Bank Stabilization

C_{1d} - Area #4
Freedom Hill

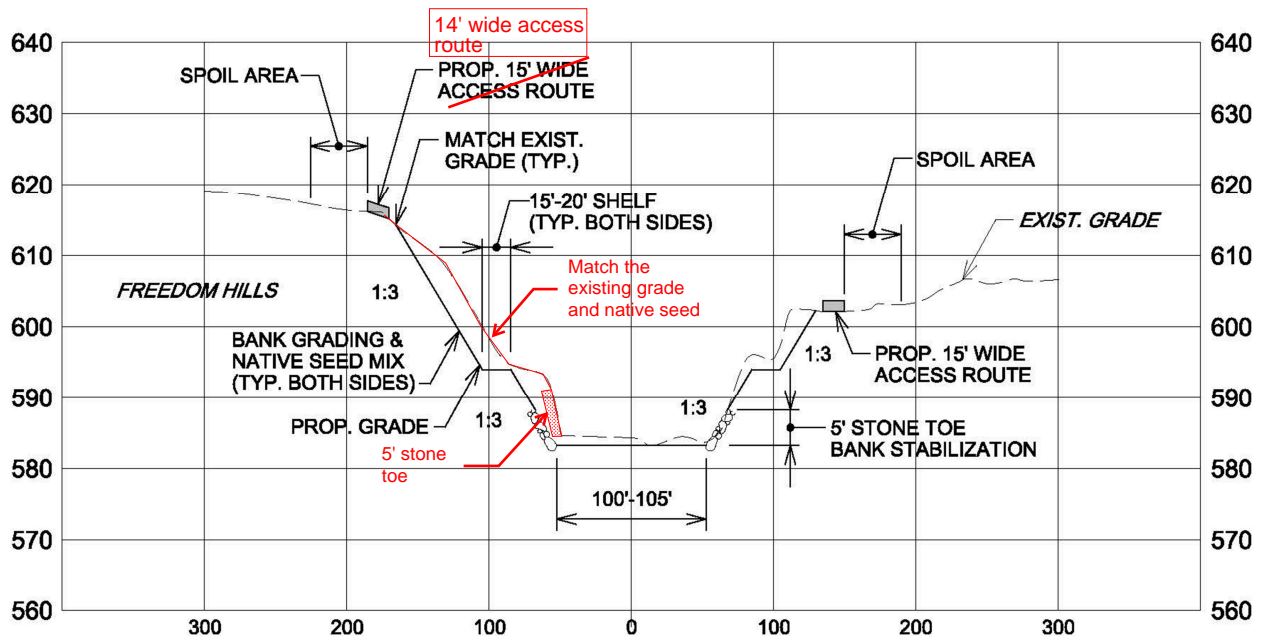
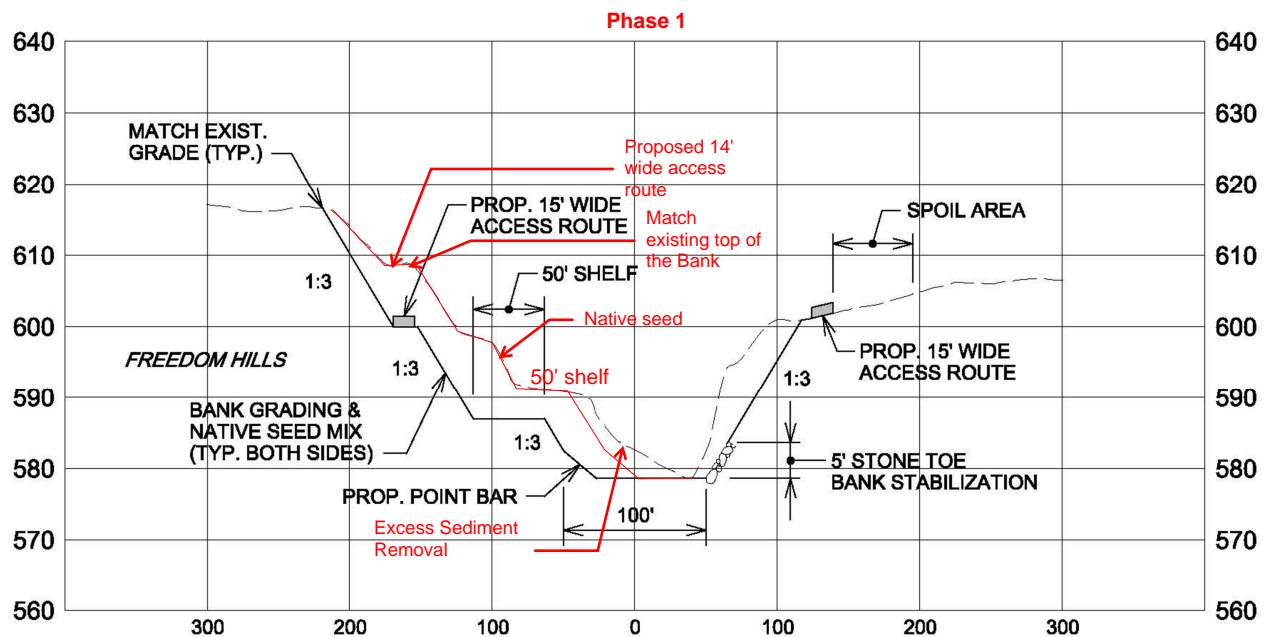
Legend

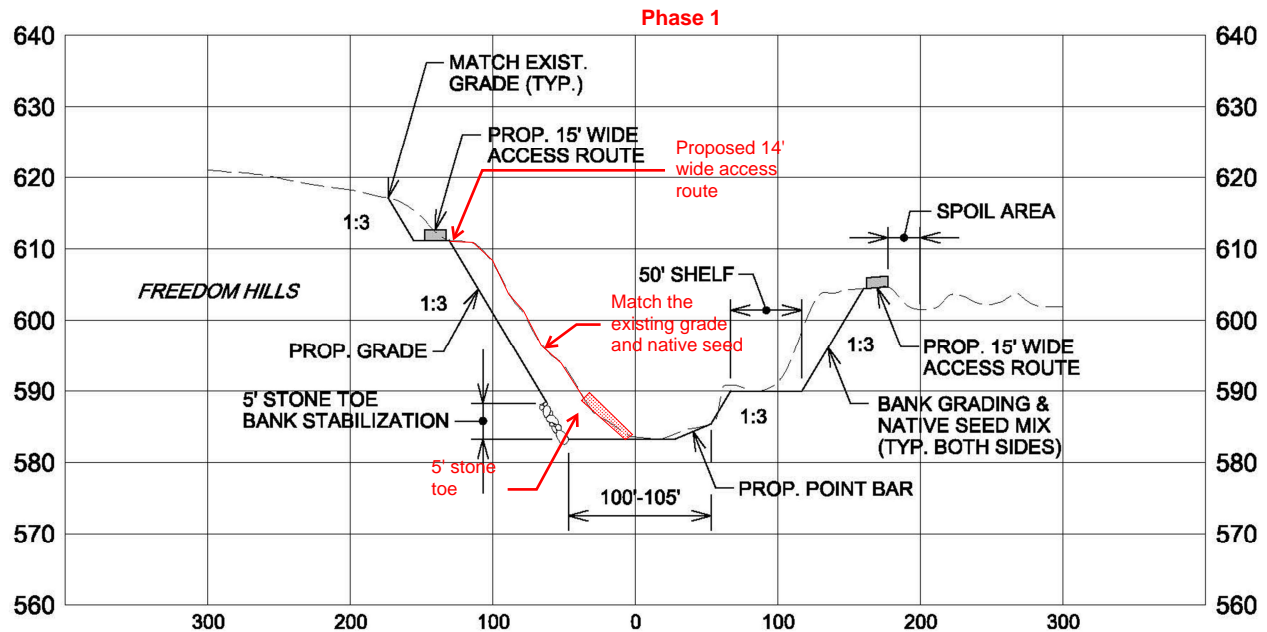
- Cross Section
- ▭ Parcels
- Outfall Repair
- ⋈ J Hooks
- ▨ Stone Toe
- ▨ Potential Staging Area
- ▨ Access Route
- ▨ Excess Sediment Removal
- ▨ Riparian Canopy Enhancement by Others & Bank Grading
- ▨ Wetlands
- ▨ Red Run ROW
- ▨ Forested Wetland Enhancement by Others
- ▨ Native Pollinator Prairie by Others
- ▨ Floodway
- ▨ 100-Year Floodplain

N

0 75 150 300
Feet

Graphic

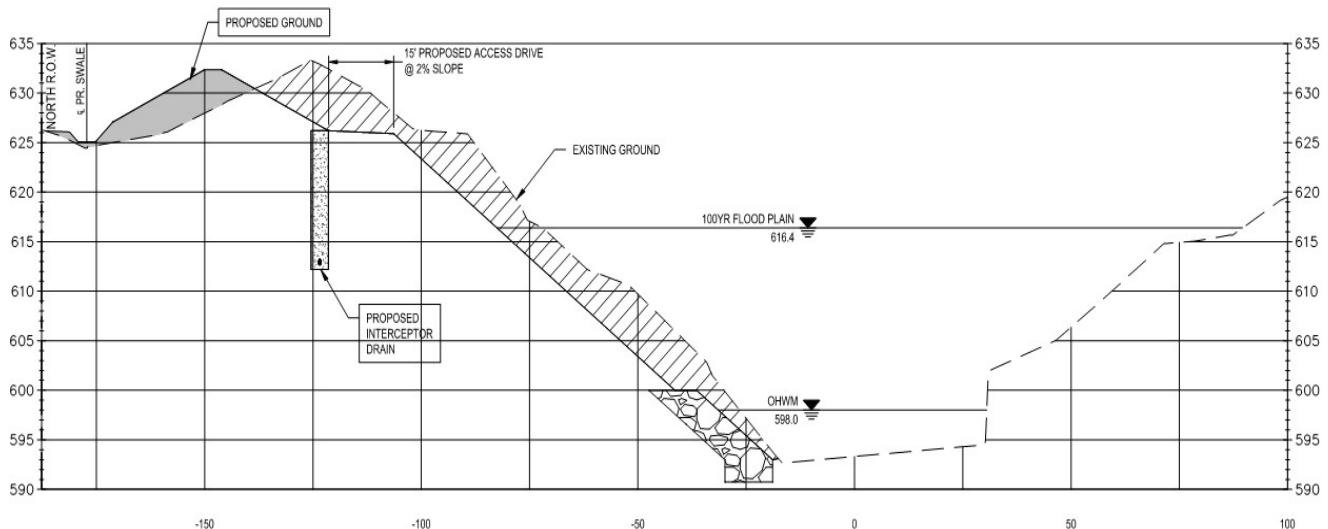
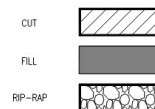




Details:

Typical cross section prepared by USACE in 2015.

LEGEND



General Conditions

All projects shall consider the following conditions:

- Restoration of native planting (See information below).
- Invasive species control.
- Additional vegetation management, such as the removal of woody material.
- Repair of any outfalls in the project area.
- Removal and proper disposal of sediment in the channel.
- Review and implementation of the pilot channel dimensions for sediment transport improvement based on study.
- Evaluation of area for additional slope drainage improvements.
- Consideration of any additional top side green infrastructure improvements.
- Incorporation of baseline maintenance requirements into contracts for outside services.
- Review of EGLE or local permit requirements

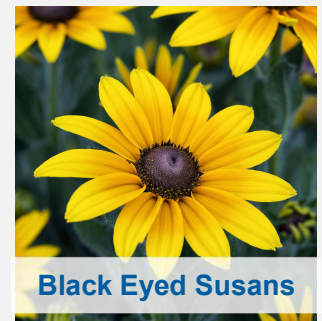
Invasive Control Plans

- Prior to the implementation of any control methods, safety factors and permit requirements must be taken into consideration. Many control actions require permits from local, state, and/or federal agencies.
- The use of herbicide treatments is recommended as the primary control method.
- Spray should be applied to wet the leaves and, when present, the flower plumes of the target plants. Excessive application, such that the chemicals are dripping off the plants, should be avoided because it is more costly, can cause increased injury to desirable nontarget species, and often decreases the success of control.
- After the initial herbicide treatment, one or more follow-up methods at each site are recommended such as prescribed fire, mechanical treatment, or water level management.
 - Prescribed fire can be used after an herbicide treatment to remove excess biomass.
 - Mechanical treatments are used most effectively following an herbicide treatment to remove dead stems and promote native plant growth. Clean construction machines before moving to a new job site. The mud and soil stuck to the machines can harbor seeds from invasive plants.
- Once areas of invasive species have been controlled (e.g., greater than 85% reduction), it is recommended that an annual maintenance control program be implemented.

Native Species Bank Mix

Specify a seed mix containing a variety of grasses, sedges, forbs, and pollinators.

Examples species for consideration are:



Red Run Bank Stabilization at Freedom Hill
Engineer's Preliminary Estimate of Probable Costs

Red Run Drain Intercounty Drainage Board

10/5/2020

HRC Job No. 20180676

Phase 1 (Entire Northwest Bank)

No.	Bid Item	Quantity	Unit	Unit Price	Total Cost
1.	Mobilization (Max 10%)	1	Lsum @	\$112,300 =	\$112,300
2.	Clearing and Grubbing	1	Lsum @	\$50,000 =	\$50,000
3.	Earth Work (cut and fill, top soil as needed)	13,000	Cyd @	\$20 =	\$260,000
4.	Mulch Blankets on the banks	28,000	Syd @	\$6 =	\$168,000
5.	Native seeding on banks	6	Ac @	\$12,000 =	\$72,000
6.	Upland Seeding	3	Ac @	\$6,000 =	\$18,000
7.	Stone Toe	1,600	Lft @	\$200 =	\$320,000
8.	J hooks	2	Ea @	\$15,000 =	\$30,000
9.	Excess Sediment Removal	1	Lsum @	\$20,000 =	\$20,000
10.	Outfall Repairs	3	Ea @	\$10,000 =	\$30,000
11.	Soil Erosion and Sediment Control	1	Lsum @	\$15,000 =	\$15,000
12.	Access Route and Staging	1	Lsum @	\$40,000 =	\$40,000
13.	EGLE Permit Conditions	1	Lsum @	\$10,000 =	\$10,000
14.	3 year maintenance	1	Lsum @	\$60,000 =	\$60,000
15.	Repair Stormwater Swale	2	Ea @	\$15,000 =	\$30,000
Subtotal Construction Costs					\$1,235,300
Contingencies (20%)					\$247,100
Engineering Services (25%)					\$308,900
Grants Application and Projects Admin (5%)					\$61,800
Total Phase 1 Costs					\$1,853,100

Phase 2 (Entire Southeast Bank)

No.	Bid Item	Quantity	Unit	Unit Price	Total Cost
1.	Mobilization (Max 10%)	1	Lsum @	\$145,700 =	\$145,700
2.	Clearing and Grubbing and Invasive Control	1	Lsum @	\$50,000 =	\$50,000
3.	Earth Work (cut and fill, top soil as needed)	34,000	Cyd @	\$20 =	\$680,000
4.	Mulch Blankets on the banks	20,000	Syd @	\$6 =	\$120,000
5.	Native seeding on banks	6	Ac @	\$12,000 =	\$72,000
6.	Upland Seeding	3	Ac @	\$6,000 =	\$18,000
7.	Stone Toe	1,600	Lft @	\$200 =	\$320,000
8.	J hooks	3	Ea @	\$15,000 =	\$45,000
9.	Excess Sediment Removal	1	Lsum @	\$20,000 =	\$20,000
10.	Outfall Repairs	2	Ea @	\$10,000 =	\$20,000
11.	Soil Erosion and Sediment Control and Silt Fence	1	Lsum @	\$12,000 =	\$12,000
12.	Access Route and Staging	1	Lsum @	\$40,000 =	\$40,000
13.	EGLE Permit Conditions	1	Lsum @	\$10,000 =	\$10,000
14.	3 year maintenance	1	Lsum @	\$50,000 =	\$50,000
Subtotal Construction Costs					\$1,602,700
Contingencies (20%)					\$320,600
Engineering Services (25%)					\$400,700
Grants Application and Projects Admin (5%)					\$80,200
Total Phase 2 Costs					\$2,404,200

Total Project Costs **\$4,257,300**

Description of Issue

- Moderate to severe bank erosion due to shear stress (specifically at the bend)
- Localized slope instability due to long-term saturation and rapid draw down conditions
- Slope instability has been attributed to relatively steep slopes combined with erosion at the toe

Estimate of Costs

\$4.2 M

Recommended Solution

- Reshape upper bank slopes similar to the “Red Run Open Drain Slope Stabilization” project completed by USACE, west of Ryan Road
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Collaborators/Partnerships

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Funding Opportunities

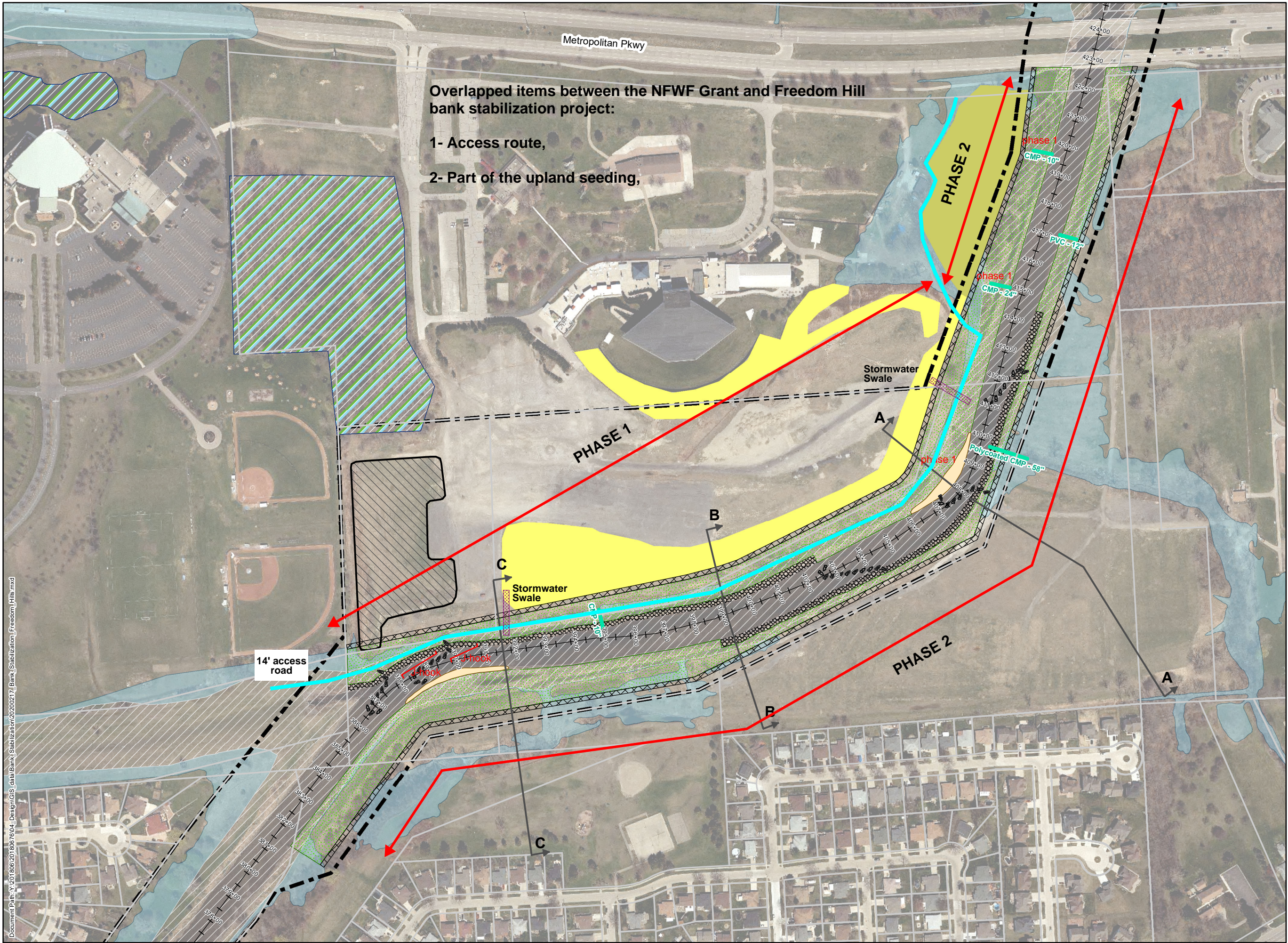
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- EGLE 319
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Location Map

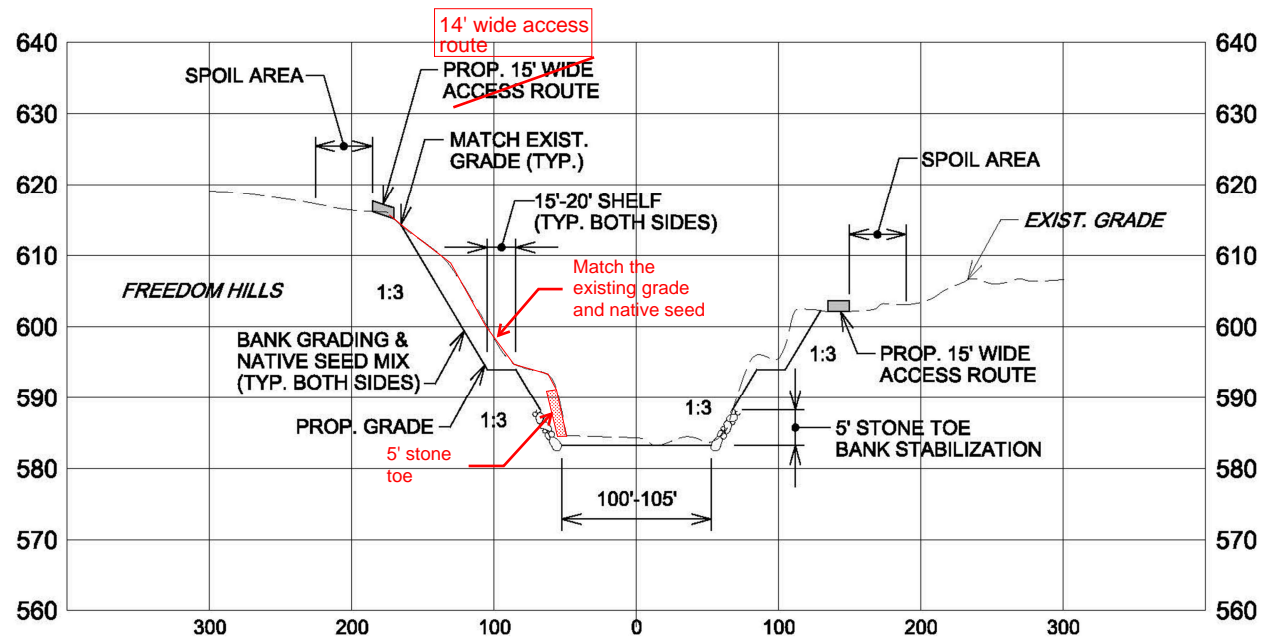
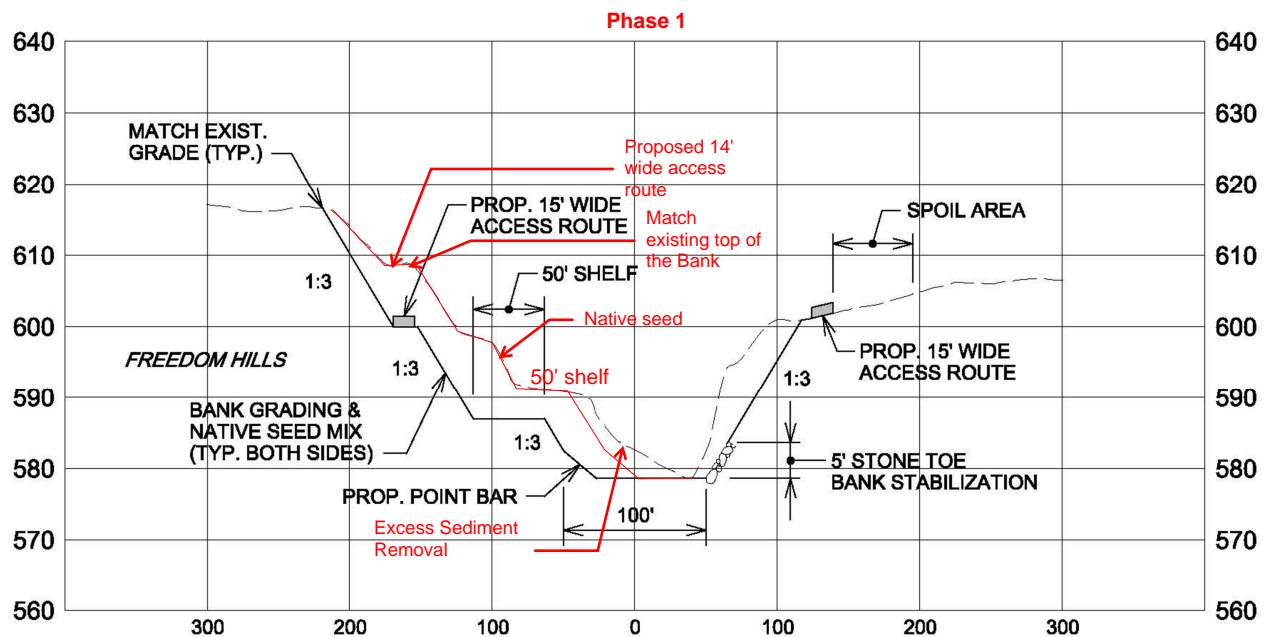


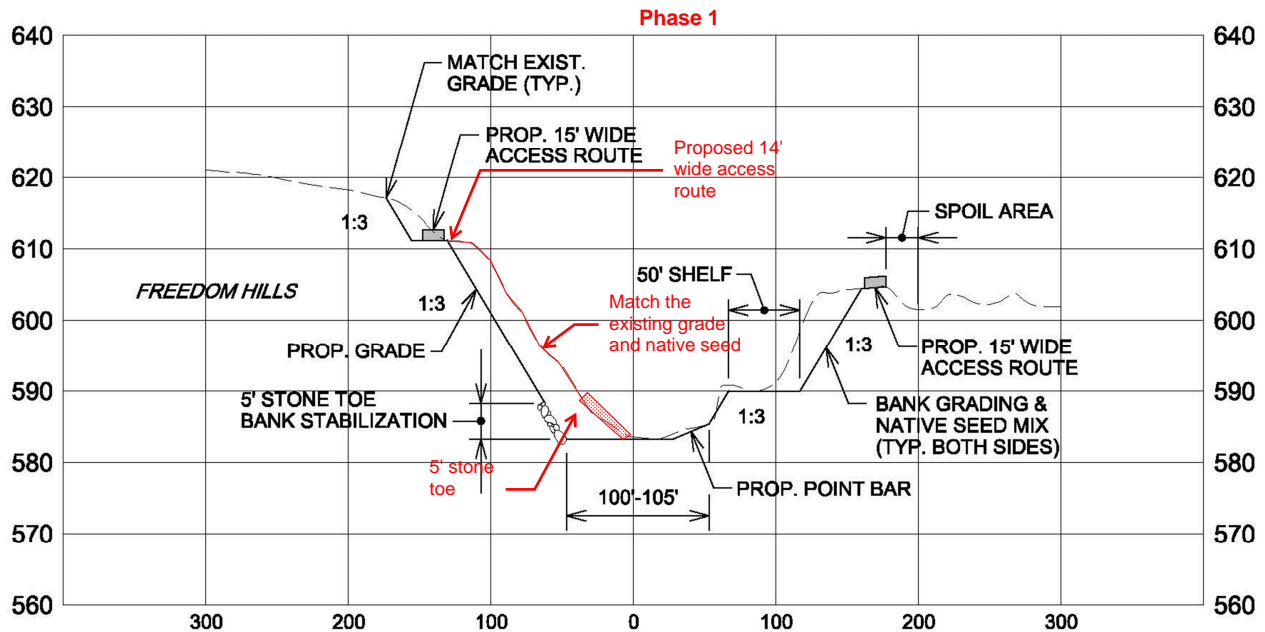
Photo of the Problem





Graphic

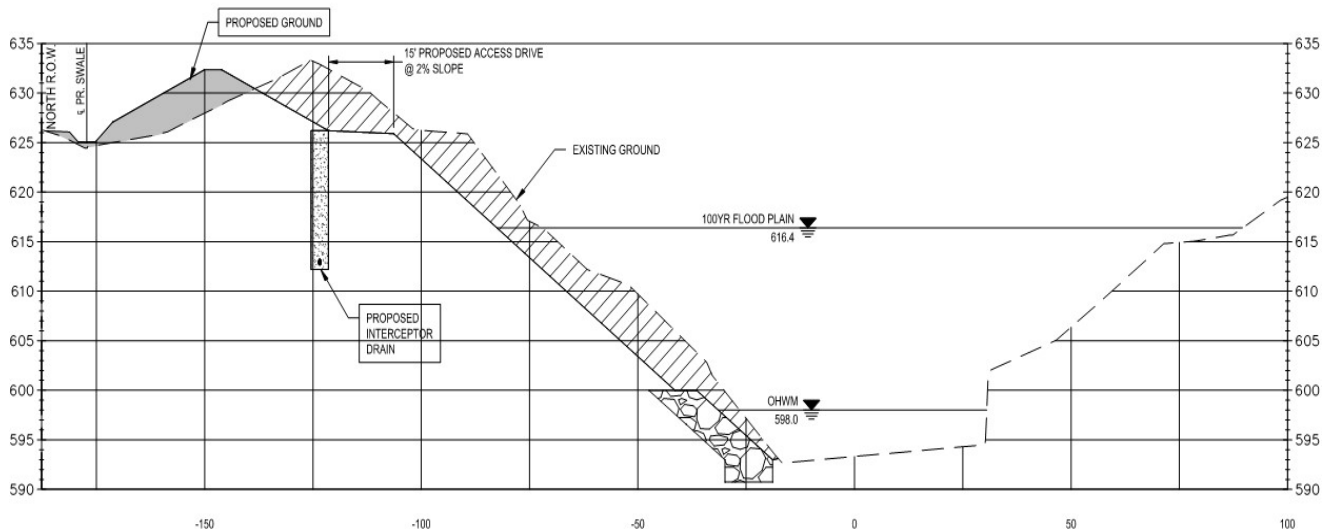
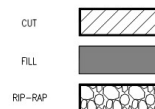




Details:

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LEGEND



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- Incorporation of baseline maintenance requirements into contracts for outside services.
- Review of EGLE or local permit requirements

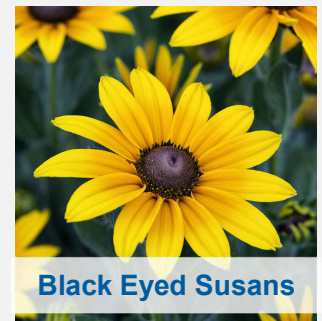
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Red Run Bank Stabilization at Freedom Hill
Engineer's Preliminary Estimate of Probable Costs

Red Run Drain Intercounty Drainage Board

10/5/2020

HRC Job No. 20180676

Phase 1 (Northwest Bank from Sterling Relief Drain Outlet to Station 414+00)

No.	Bid Item	Quantity	Unit	Unit Price	Total Cost
1.	Mobilization (Max 10%)	1	Lsum @	\$92,800 =	\$92,800
2.	Clearing and Grubbing	1	Lsum @	\$50,000 =	\$50,000
3.	Earth Work (cut and fill, top soil as needed)	10,000	Cyd @	\$20 =	\$200,000
4.	Mulch Blankets on the banks	21,000	Syd @	\$6 =	\$126,000
5.	Native seeding on banks	4	Ac @	\$12,000 =	\$48,000
6.	Upland Seeding	2	Ac @	\$6,000 =	\$12,000
7.	Stone Toe	1,600	Lft @	\$200 =	\$320,000
8.	J hooks	2	Ea @	\$15,000 =	\$30,000
9.	Excess Sediment Removal	1	Lsum @	\$20,000 =	\$20,000
10.	Outfall Repairs	1	Ea @	\$10,000 =	\$10,000
11.	Soil Erosion and Sediment Control	1	Lsum @	\$12,000 =	\$12,000
12.	Access Route and Staging	1	Lsum @	\$40,000 =	\$40,000
13.	EGL Permit Conditions	1	Lsum @	\$10,000 =	\$10,000
14.	3 year maintenance	1	Lsum @	\$50,000 =	\$50,000
15.	Repair Stormwater Swale	2	Ea @	\$15,000 =	\$30,000
Subtotal Construction Costs					\$1,050,800
Contingencies (20%)					\$210,200
Engineering Services (25%)					\$262,700
Grants Application and Projects Admin (5%)					\$52,600
Total Phase 1 Costs					\$1,576,300

Phase2 (Entire Southeast Bank+Northwest Bank from Station 414+00 to Metropolitan pkwy)

No.	Bid Item	Quantity	Unit	Unit Price	Total Cost
1.	Mobilization (Max 10%)	1	Lsum @	\$162,400 =	\$162,400
2.	Clearing and Grubbing and Invasive Control	1	Lsum @	\$50,000 =	\$50,000
3.	Earth Work (cut and fill, top soil as needed)	37,000	Cyd @	\$20 =	\$740,000
4.	Mulch Blankets on the banks	27,000	Syd @	\$6 =	\$162,000
5.	Native seeding on banks	8	Ac @	\$12,000 =	\$96,000
6.	Upland Seeding	4	Ac @	\$6,000 =	\$24,000
7.	Stone Toe	1,600	Lft @	\$200 =	\$320,000
8.	J hooks	3	Ea @	\$15,000 =	\$45,000
9.	Excess Sediment Removal	1	Lsum @	\$20,000 =	\$20,000
10.	Outfall Repairs	4	Ea @	\$10,000 =	\$40,000
11.	Soil Erosion and Sediment Control and Silt Fence	1	Lsum @	\$17,000 =	\$17,000
12.	Access Route and Staging	1	Lsum @	\$40,000 =	\$40,000
13.	EGL Permit Conditions	1	Lsum @	\$10,000 =	\$10,000
14.	3 year maintenance	1	Lsum @	\$60,000 =	\$60,000
Subtotal Construction Costs					\$1,786,400
Contingencies (20%)					\$357,300
Engineering Services (25%)					\$446,600
Grants Application and Projects Admin (5%)					\$89,400
Total Phase 3 Costs					\$2,679,700

\$4,256,000

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Michael Gregg, Chairman of the Drainage Board for the Red Run Drain

FROM: George P. Nichols, P.E., Civil Engineer III

SUBJECT: Red Run Drain Bank Stabilization - Freedom Hill

DATE: October 21, 2020

The bank stabilization of the Red Run Drain at Freedom Hill was recommended as a high priority project in the Red Run Drain Maintenance and Operation Study performed by Hubbell, Roth and Clark, Inc. and Spicer and accepted at the last drainage board meeting. There are now opportunities to coordinate this work with ongoing efforts to construct an extension of a pedestrian and bike trail along this portion of the drain which will connect the Freedom Trail to the future leg of the Iron Belle Trail at Metro Parkway.

Coordinating the financing of this work with Macomb County Public Works and the Macomb County Road Commission would be advantageous since the work is in the same area along the north bank of the drain at Freedom Hill and grant funding for the various elements of the project could be leveraged and combined into a single project. Critical elements of these projects include stream bank stabilization, trail construction, invasive species control and native plantings. Combining the efforts of permit application, design, and construction will result in substantial cost savings due to offset of costs from available grant funding.

The total project cost for this work is estimated at \$1,853,100.

Grant funding secured for this project includes Macomb County Act 51 funds in the amount of \$313,000 and Southeast Michigan Resilience funds totaling \$300,000. There is also an opportunity to secure up to \$500,000 from the EGLE Nonpoint Source Pollution (NPS) grant program. The remaining project funds would be provided by the District.

The project schedule has engineering design work commencing in November. Construction would be required to be complete by December 2022.

Requested Action

The Red Run Drain Drainage Board does hereby establish a project to restore the north bank of the drain at Freedom Hill for a total cost of \$1,853,100 which will include the pathway extension from the Sterling Relief Drain to Metro Parkway, invasive species control, and native plantings as described in the grant award documents associated with the Act 51 funding and the Southeast Michigan Resilience Funding. In addition, the Board authorizes the submission of a grant application to the Michigan Department of Environment, Great Lakes, and Energy's Nonpoint Source Program for the bank stabilization portion of the project.

Agenda Item No. 6

Drain inspection walkthrough

Agenda Item No. 7

Trial balance

Run By: 27706

Run: 10/14/2020 at 11:23 AM

Scope: 82902 Red Run Federal Drain Ch21

YTD Trial Balance
Fund: 82902 Red Run Federal Drain Ch21
As of Fiscal Period: Month 1, 2021

ACCOUNT		Fiscal Year BEG BAL	Current FY Net Activity	ENDING BAL
100100	Cash - Operating	71,010.30	(2,182.51)	68,827.79
104100	Accrued Interest on Investment	4,928.40	(77.82)	4,850.58
228100	Deposits	(26,244.40)	0.00	(26,244.40)
	Revenues	0.00	(87.57)	(87.57)
	Expenditures	0.00	2,347.90	2,347.90
	Special Items- Uses	0.00	0.00	0.00
381350	FB Restricted Programs	(49,694.30)	0.00	(49,694.30)
		(0.00)	(0.00)	(0.00)

Cash as 10/14/2020	68,827.79
Permit Deposits Held	(26,244.40)
Vouchers Payable AP	0.00
Due to Drain Revolving Fund	0.00
Total Net Cash Balance	<u>\$ 42,583.39</u>

Agenda Item No. 8

HRC invoice



HUBBELL, ROTH & CLARK, INC.
CONSULTING ENGINEERS
PO BOX 824
BLOOMFIELD HILLS, MICHIGAN 48303-0824
(248) 454-6300

October 6, 2020

Project No: 20180676.24

Invoice No: 0182507

OAKLAND COUNTY WATER RESOURCES
COMMISSIONERS OFFICE
ONE PUBLIC WORKS DRIVE
WATERFORD, MI 48328-1907

STUDY FOR THE REPAIR MAINTENANCE AND MANAGEMENT OF THE RED RUN DRAIN

PROJECT 20180676.24
FREEDOM HILL PROJECT SCOPE PHASING

Professional Services for period ending September 30, 2020

Professional Personnel

	Hours	Rate	Amount
ALIGHALEHBABAKHANI, FATEMEH	22.50	35.00	787.50
GROAT, ANDREW	.50	42.70	21.35
SEYMOUR, LYNNE	17.50	47.60	833.00
Totals	40.50		1,641.85
	1.0 times	1,641.85	1,641.85
	2.97 times	1,641.85	4,876.29

Total Labor 4,876.29

Additional Fees

Fixed Fee	13.00 % of 4,876.29	633.92	
Total Additional Fees		633.92	633.92

Billing Limits

	Current	Prior	To-Date
Total Billings	5,510.21	0.00	5,510.21
Limit			6,000.00
Remaining			489.79

Total Due this Invoice \$5,510.21

Reviewed and approve this invoice

GP 10/7/2020

82902 - 155020 - 730373 - 4855 - 1-2895 - Ch. 21 - std
V#628
exp. 8/31/21
li# 38141

Billing Backup

HUBBELL, ROTH & CLARK, INC.

Invoice 0182507 Dated 10/6/2020

Tuesday, October 6, 2020

12:59:48 PM

Professional Personnel

			Hours	Rate	Amount	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/19/2020	2.00	35.00	70.00	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/19/2020	3.00	35.00	105.00	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/30/2020	4.50	35.00	157.50	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/30/2020	1.00	35.00	35.00	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/30/2020	4.00	35.00	140.00	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/30/2020	4.50	35.00	157.50	
02435	ALIGHALEHBABAKHA NI, FATEMEH	9/30/2020	3.50	35.00	122.50	
02315	GROAT, ANDREW	9/19/2020	.50	42.70	21.35	
02468	SEYMOUR, LYNNE	9/5/2020	1.50	47.60	71.40	
02468	SEYMOUR, LYNNE	9/19/2020	1.50	47.60	71.40	
02468	SEYMOUR, LYNNE	9/19/2020	1.00	47.60	47.60	
02468	SEYMOUR, LYNNE	9/19/2020	2.50	47.60	119.00	
02468	SEYMOUR, LYNNE	9/19/2020	1.50	47.60	71.40	
02468	SEYMOUR, LYNNE	9/19/2020	1.00	47.60	47.60	
02468	SEYMOUR, LYNNE	9/19/2020	3.00	47.60	142.80	
02468	SEYMOUR, LYNNE	9/19/2020	1.00	47.60	47.60	
02468	SEYMOUR, LYNNE	9/30/2020	.50	47.60	23.80	
02468	SEYMOUR, LYNNE	9/30/2020	4.00	47.60	190.40	
	Totals		40.50		1,641.85	
			1.0 times	1,641.85	1,641.85	
			2.97 times	1,641.85	4,876.29	
	Total Labor					4,876.29
				Total this Project		\$4,876.29
				Total this Report		\$4,876.29

Agenda Item No. 9

Next meeting

Agenda Item No. 10

Other business

Agenda Item No. 11

Adjourn