

**UPPER BIG BLUE NATURAL RESOURCES DISTRICT
REQUEST FOR PROPOSALS (RFP 2024-0003)
BULGRIN DAM PIPE LINING
CURED IN PLACE PIPE**

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1. INTRODUCTION

This Request for Proposal (RFP) is issued by the Upper Big Blue Natural Resources District, CONTRACTOR; to solicit proposals for cured in place pipe lining of the outlet works pipe at Bulgrin Dam in York County. The 18" Corrugated Metal Pipe (CMP) at Bulgrin Dam is beginning to show signs of corrosion.

Bulgrin Dam is located on York County Road 8, between the NW ¼ of the NE ¼ or section 33, township 10 North, range 1 West and the SW ¼ of the SE ¼ of Section 28, Township 10 North, Range 1 West in York County. The dam is approximately 1.5 miles South and 1.6 miles east of the Interstate 80 Waco exit.

The September 19, 2023, Nebraska Department of Natural Resources Dam Inspection Report noted that the outlet pipe of Bulgrin Dam was experiencing some corrosion.

On October 5, 2022, the NeDNR conducted a video pipe inspection of the outlet works pipe. This video showed minor corrosion of the inside of the 18" diameter X 139' long CMP outlet and some corrosion in the 36" diameter X 4.0' long CMP riser. The end section of the outlet works pipe (approximate 2 feet where the pipe is exposed) is showing some severe corrosion.

Due to the smaller diameter of the outlet pipe (18"), the UBBNRD is planning on using glass reinforced UV cured in place pipe (CIPP) to line the inside of the 18" CMP. Using UV CIPP will minimize the reduction of the pipe diameter in an effort to lessen the chance of the outlet pipe becoming plugged with debris.

2. EXAMINATION OF REQUEST FOR PROPOSAL DOCUMENTS AND EXPLANATION TO OFFEROR

Should the OFFEROR find discrepancies in, or omissions from the RFP, or should the intent or meaning appear unclear or ambiguous, or should any other questions arise relative to the RFP, the OFFEROR shall notify CONTRACTOR by December 31, 2024, via e-mail to jwergin@upperbigblue.org. The OFFEROR making such a request solely will be responsible for its timely receipt by the CONTRACTOR. Replies to such notices will be addressed within 2 working days of receipt by the CONTRACTOR. If the request(s) require changes to the original RFP, then an amendment to the RFP will be issued to all prospective OFFERORS and shared via <https://www.upperbigblue.org/about/bid-proposals>. As reviewed by the CONTRACTOR, if a request(s) is deemed significant, the CONTRACTOR at their discretion may extend the closing date of the RFP.

3. EXHIBITS INCLUDED IN RFP 2024-0003

Exhibit A – Schedule of Events

Exhibit B – Project Background, Scope of Work

Exhibit C – Bulgrin Dam – Location Map

Exhibit D – Bulgrin Dam – Design Drawings

Sheet 2 of 6 Bulgrin Dam, Location

Sheet 3 of 6 Bulgrin Dam, Hydrologic Data, Structure Data, Storage Table

Sheet 4 of 6 Bulgrin Dam Topography
 Sheet 5 of 6 Bulgrin Dam, Cross Section, Outlet Pipe Details, Drawdown Details
 Sheet 6 of 6 Bulgrin Dam, Pipe Support, Alfalfa Valve Detail, Conical Trash Rack Detail

Exhibit E – Bulgrin Dam – Outlet Excavation Sketch

Exhibit F - Bulgrin Dam – Photos

Exhibit G – Bulgrin Dam – September 10, 2023 Inspection Report

Exhibit H – Bulgrin Dam – Link to Bulgrin Dam Pipe Inspection Video

Exhibit I – Bulgrin Dam – Contractor’s Quote – Schedule of Values

4. AMENDMENTS TO REQUEST FOR PROPOSAL

If this RFP is amended, all terms and conditions that are not modified remain unchanged. The term “RFP” includes all exhibits and amendments provided by the OFFEROR as part of this RFP.

5. PREPARATION COST

The preparation of the proposal shall be by, and at the expense of, the OFFEROR.

6. PRICE CONDITIONS

The quoted price must include all costs to the CONTRACTOR for all supervision, labor, tools, supplies, materials, equipment, transportation, testing, and any other miscellaneous for full and complete performance of the work as set forth herein.

Pricing will be guaranteed for 90 days from submission of proposal. All pricing information requested in this RFP must be provided. Costing/Pricing by details must be broken down by labor, materials, etc. CONTRACTOR reserves the right to require the OFFEROR to furnish an accounting breakdown of all contract prices.

7. PAYMENT TERMS

CONTRACTOR payment terms are net 30 days upon receipt of invoice, subject to approval by the Upper Big Blue Natural Resources District Board of Directors.

8. RIGHT OF ACCEPTANCE

CONTRACTOR reserves the right to:

- Accept or reject any proposal in whole or in part.
- Reject all proposals, with or without, notice or reason.
- Enter into discussions or negotiations with OFFEROR prior to award. Negotiations do not constitute an acceptance of the proposal, nor rejection of the proposal, nor a counteroffer by the CONTRACTOR.
- Abandon the work or have the work performed in such a manner as CONTRACTOR may elect, if no proposal is accepted.

9. PROPOSAL EVALUATION CRITERIA

While the CONTRACTOR intends to engage in the purchase of services, this event shall not guarantee that the participating OFFEROR will be awarded a Subcontract.

Any award resulting from this request will be made to the OFFEROR whose proposal provides the best value to CONTRACTOR. The best value determination will be at the sole discretion of CONTRACTOR and could result in an award to someone other than the lowest price proposal. Any resulting purchase award will be set forth in writing between the CONTRACTOR and the successful OFFEROR at some date after the close of the request. CONTRACTOR reserves the option to cancel this RFP process at a time and/or to elect not to engage in a Subcontract.

The OFFEROR must provide all data required in order to be considered an acceptable OFFEROR. All data must be executed completely, correctly, and accurately by the OFFEROR. Should the OFFEROR not complete all forms and documents, the OFFEROR will be deemed non-responsive.

This RFP will be evaluated based on OFFEROR'S technical ability, experience in similar projects, submitted project schedule, and proposal cost.

10. SUBMITTAL OF PROPOSAL

OFFEROR's proposal must be submitted with

- Past similar project experience
- Project Lead
- Estimated project schedule. (Project completion by May 30, 2025).
- Detailed cost estimate: Please utilize the attached Schedule of Values (Exhibit I).
- Listing of Subcontractors if applicable.
- **Proposals must be received by the CONTRACTOR by 3:00 p.m. CST. on Tuesday, January 7, 2025.**
- Proposals should be submitted via hand delivery, USPS, or E-mail to:

Upper Big Blue Natural Resources District
Attn: Jack Wergin
319 East 25th Street
York, NE 68467

Or

jwergin@upperbigblue.org

11. AWARD OF SUBCONTRACT

CONTRACTOR contemplates award of a Subcontract in accordance with the requirements and conditions set forth or incorporated by reference in this RFP.

Proposals for other than the total work defined may be rejected. The Award may not be made to any OFFEROR who has not responded to all instructions and representations indicated in the RFP.

CONTRACTOR may reject any or all proposals if such action is in the best interest of CONTRACTOR and their PARTNERS and/or waive informalities and minor irregularities in offers received.

CONTRACTOR and their PARTNERS may evaluate proposals and the CONTRACTOR award a Subcontract without discussions with OFFEROR. Therefore, each initial proposal should contain the OFFEROR's best terms.

CONTRACTOR reserves the right to conduct discussions, if later determined to be necessary by CONTRACTOR's Subcontract Administrator and Project Lead.

The OFFEROR agrees, if the proposal is accepted within the number of days allowed, to furnish all items upon which prices are offered, at the set price opposite each item, at the designated point(s) within the time specified in the schedule.

12. NOTICE TO SUCCESSFUL OFFEROR – W-9 Verification, Certificate of Liability Insurance

CONTRACTOR will require any successful OFFEROR to supply a W-9 form (Request for Taxpayer Identification Number and Certification), a Certificate of Liability Insurance, and any additional documents deemed necessary by the CONTRACTOR.

13. NOTICE OF UNSUCCESSFUL OFFEROR

The OFFEROR will be informed whether the proposal was successful using a method deemed adequate by the CONTRACTOR.

Exhibit A

SCHEDULE OF EVENTS

Event	Date
Opening Date	December 20, 2024
Omissions and/or Questions	December 31, 2024
Closing Date	3:00 CST, January 7, 2025
Evaluation Period	January 7, 2025 - January 16, 2025
Anticipated Subcontract Award	January 17, 2025
Notice to Proceed	January 17, 2025
Project Completion, Final Report	May 30, 2025

Exhibit B

BACKGROUND & SCOPE OF WORK

Project Background

Bulgrin Dam is located on County Road 8, between Sections 28 and 33 of Township 10 North, Range 1 West, in York County, Nebraska. Bulgrin Dam construction was completed in 1979 for the purpose of flood control and storm water management. The dam has a drainage area of 192 acres, a normal storage pool of 22 acre-feet, and a normal pool surface area of 4 acres.

The property for the Dam was granted to the Upper Big Blue Natural Resources District (UBBNRD) by York County through a perpetual easement. The Dam is operated and maintained by the UBBNRD.

The downstream channel has been altered which has resulted in the pipe outlet being buried by approximately 1.5 feet (from the top of the 18" diameter CMP). Fill material will need to be removed to a depth of 1.0 feet below the pipe, back upstream to a point 4.0 feet from the pipe outlet, and as estimated 10.0 feet downstream of the pipe outlet (see Exhibit E – Bulgrin Dam – Outlet Excavation Sketch).

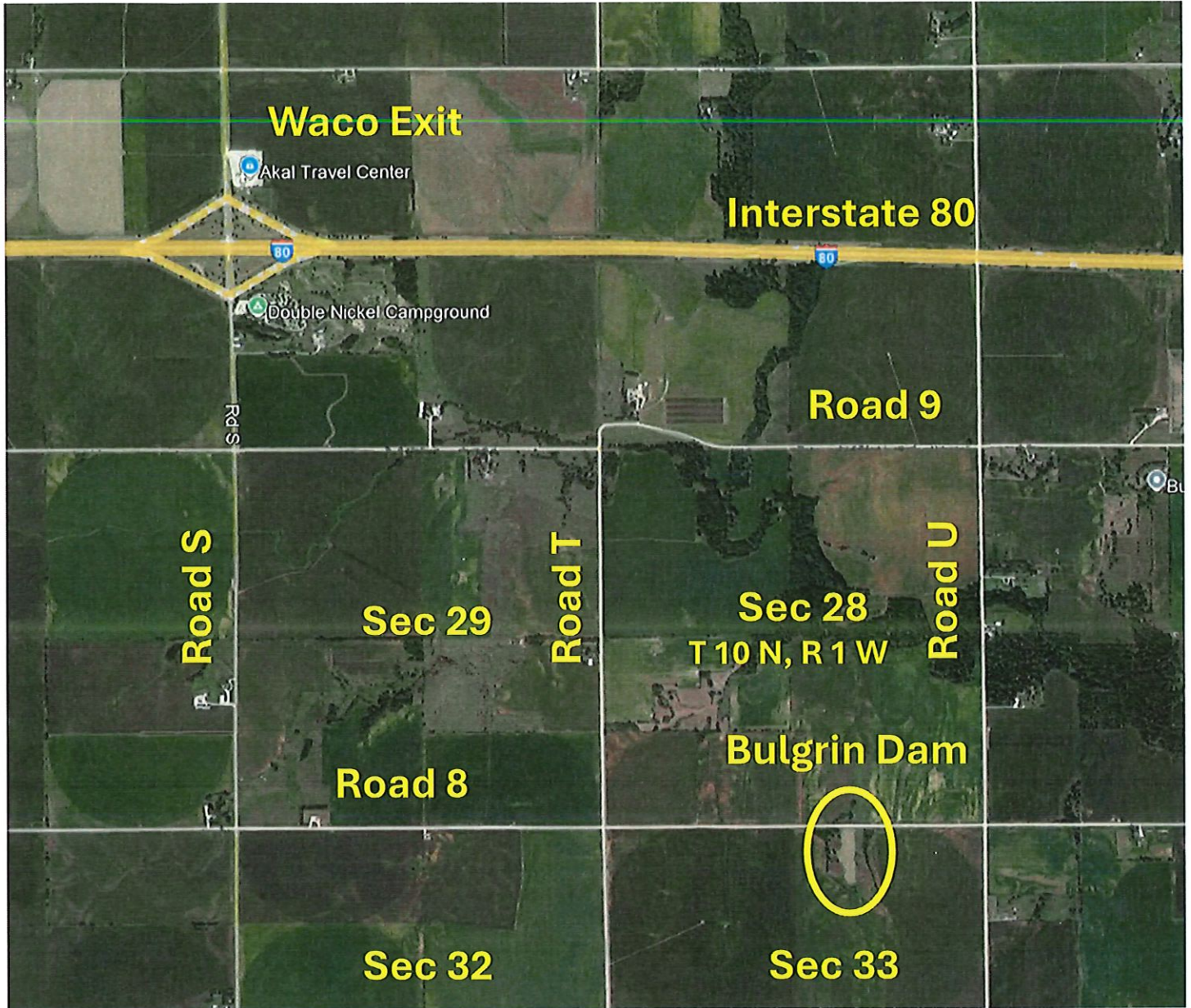
Scope of Work

The suggested scope of work is below, and prospective consultants should suggest any proposed alterations to this scope of work.

The tasks and specific steps for this study include the following:

1. Utilize Glass Reinforced UV Cured in Place Pipe to line;
 - a. The 36" diameter X 4.0' long CMP riser
 - b. The 18" diameter X 139' long CMP outlet pipe
2. The end section of the 18" diameter CMP outlet pipe (approximately the last 2 feet) is severely corroded and will need to be addressed before CIPP is installed.
3. Riser trashrack will need to be removed prior to installing CIPP on riser and outlet pipe and the trashrack will need to be reinstalled upon completion of the CIPP.
4. Fill material around the pipe outlet will need to be removed in order to access the 18" CMP outlet pipe prior correcting the end pipe section and prior to installing the CIPP.
5. Portions of the fence on the downstream toe of the dam and on the upstream face near the trashrack will need to be removed to complete the installation of the CIPP. Any fence removed will need to be re-installed.
6. During construction, appropriate safety warning signs will need to be placed at both ends of the county road across the dam. Closing the road or closing one lane of the road shall be coordinated with the York County Roads Department.

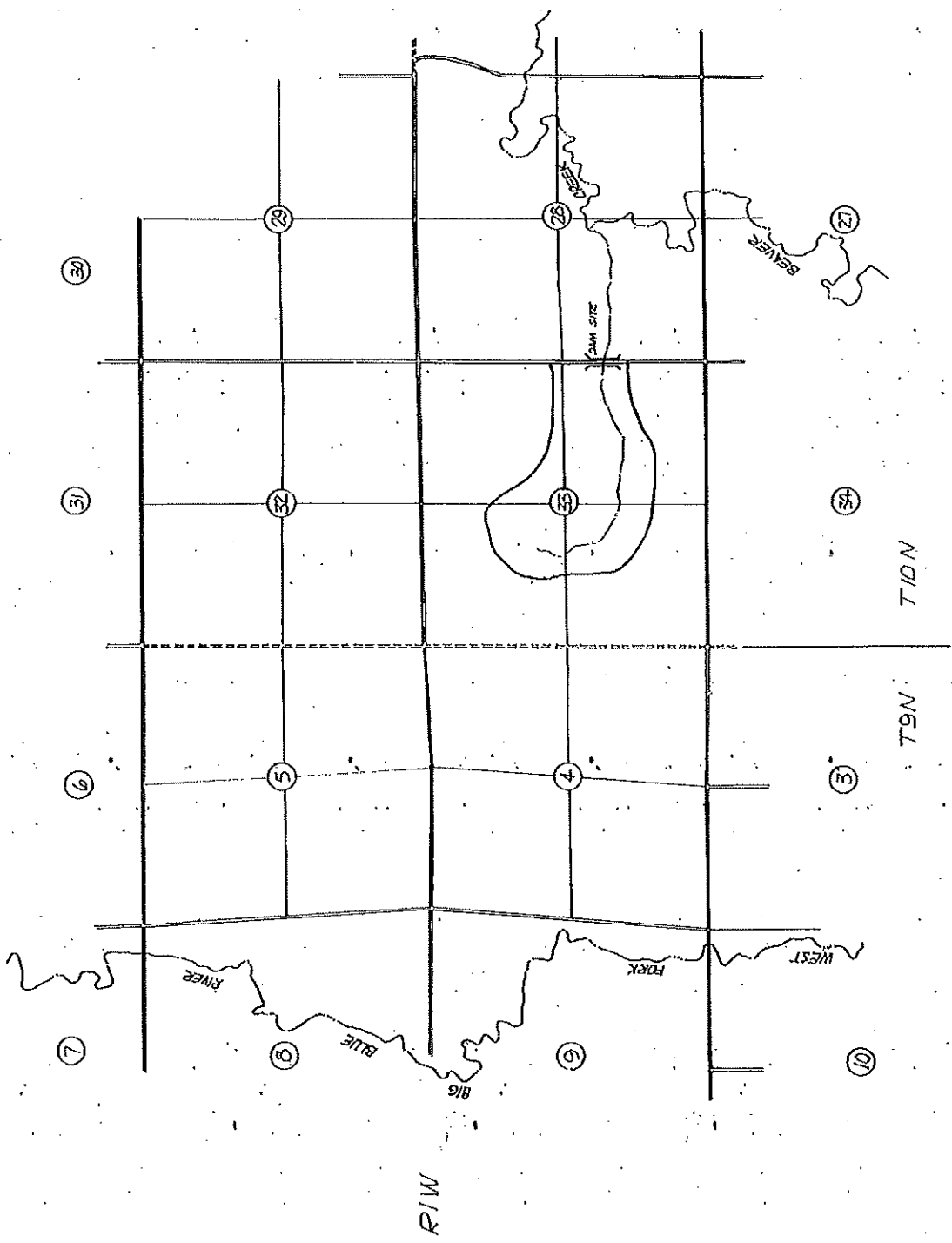
7. CONTRACTOR's access to both the upstream and downstream sides of the dam on private property will be coordinated through the landowner by the UBBNRD.
8. The UBBNRD will coordinate appropriate site equipment storage areas with the adjacent landowners.
9. The Contractor will provide a weekly update on the project progress to the UBBNRD.





RFP-2024-003

EXHIBIT D



DRAINAGE AREA MAP

SCALE: 1" = 2000'



EXHIBIT D
HYDROLOGIC DATA

SIZE OF DRAINAGE AREA: 200 ACRES; 0.312 SQ. MI.
 AVERAGE GRADE OF MAIN WATERWAY 1.3%
 LENGTH OF DRAINAGE AREA 4000 FT.
 AVERAGE VELOCITY IN MAIN WATERWAY 2 FT. / SEC.

SOIL COMPLEX NO. = 70.

$TC = \frac{\text{LENGTH OF DRAINAGE AREA}}{\text{AVERAGE VELOCITY} \times 3600} = 0.556 \text{ HOURS}$

RAINFALL (6 HRS.): 100 YR. FREQ. 5.0 INCHES
 DIRECT RUNOFF (Q): = 2.0 IN. RAINFALL ZONE
 UNIT PEAK DISCHARGE (qx) = 319 CFS / SQ. MI. / IN. OF RUNOFF.
 PEAK DISCHARGE, Qp = qx X da X Q = 319 cfs X .312 sq.mi. X

2.in. = 199.06 dfs.

TOTAL STORM RUNOFF Vp = 33.53 AC. FT.
 18" x 132' DIA. LENGTH PIPE 26' HEAD = 23.2 CFS.

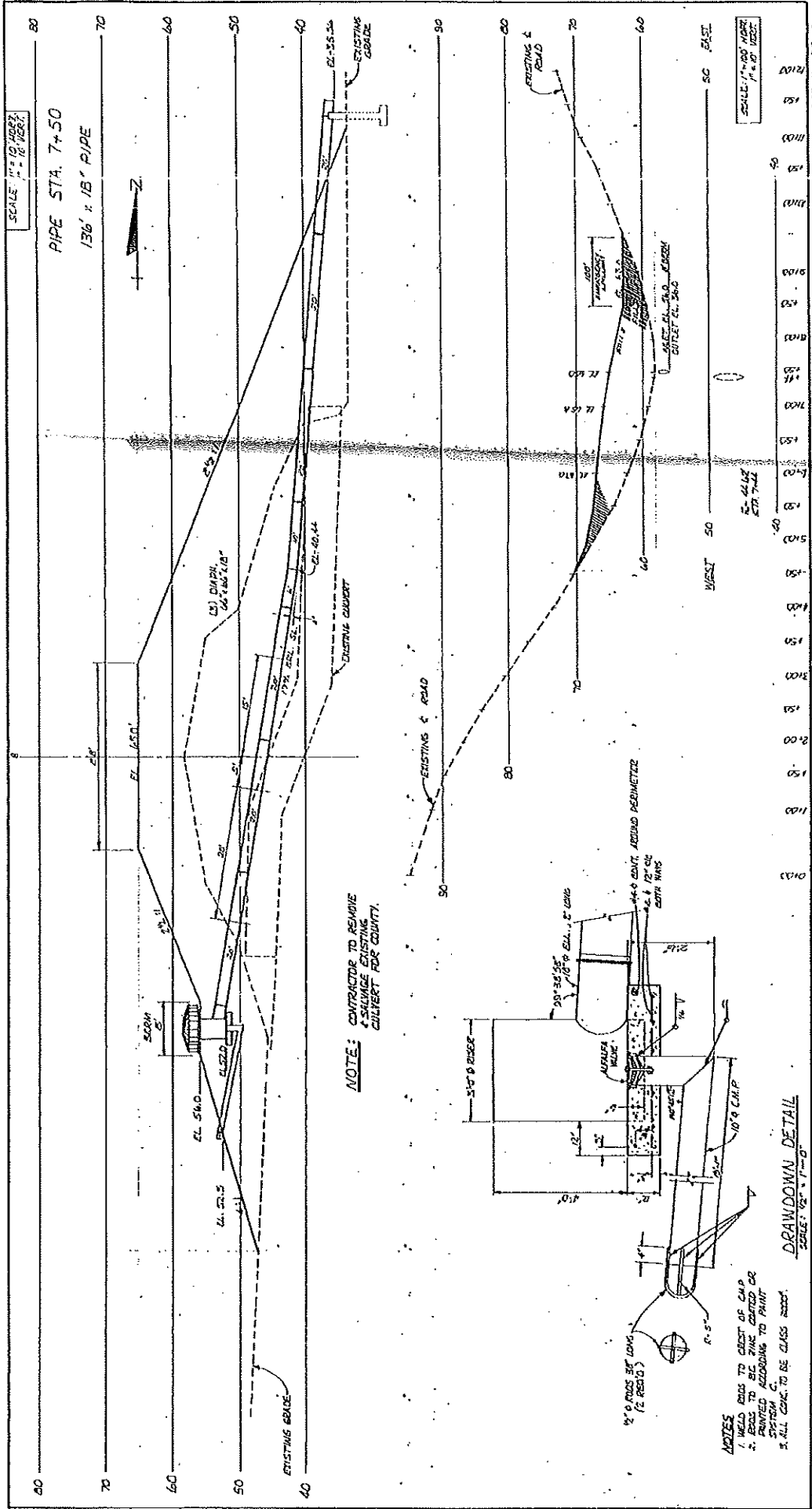
STRUCTURE DATA

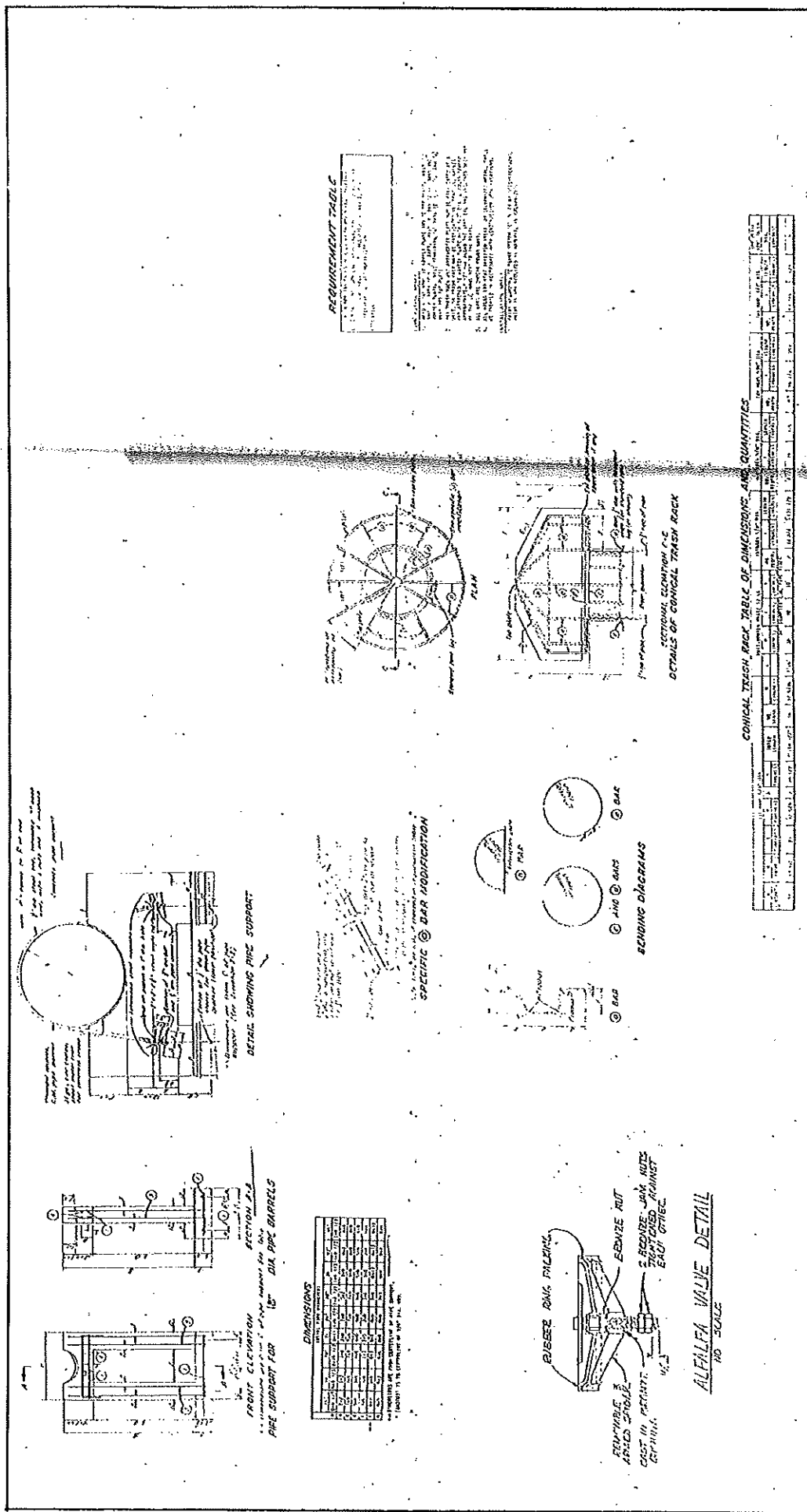
PRINCIPAL SPILLWAY: PIPE LENGTH 132 FT.
 INLET EL. (CREST) 56.0, OUTLET EL. (E.) 36.0
 EMERGENCY SPILLWAY -
 BOTTOM WIDTH 100 FT., LEVEL SECTION LENGTH
 28 FT. DISCHARGE, WITH He = 1.5 FT., 420 CFS.

STORAGE TABLE

ELEV.	AREA		VOLUME		STORAGE		FEET TOTAL
	SQ. IN.	ACRES	ACRE	FEET	SILT	FLOOD	
44		0.00					
46		0.50		0.50			
48		1.00		2.00			
50	6.6	1.52		4.52			
52		2.47		8.51			
54		3.41		14.39			
56		4.36		22.16			
58		6.08		32.60	22.16		
60	33.91	7.89		46.48			
62		8.59		62.87			
* 63							
64		9.38		80.84		49.70	71.86
66		10.18		100.40			
68		14.73		125.31			
70	83.83	19.28		159.32			

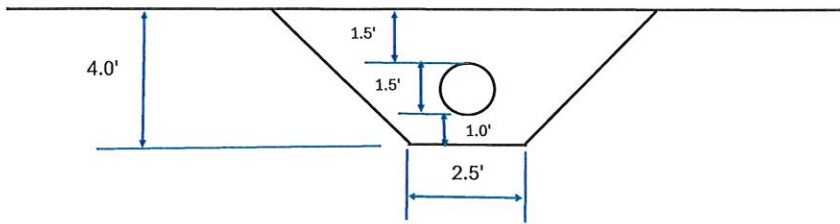
* EL 650 : SURFACE 8.99 AC.





Excavation Quantities - Pipe Outlet

Cross Section - Pipe Outlet



Cross Section

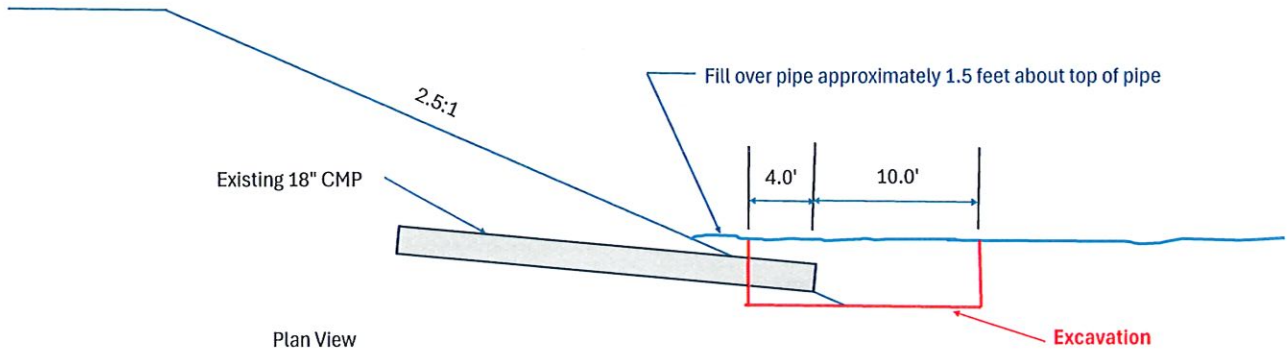
Excavation from end of pipe out 10.0 feet
 $2.5 \times 4.0 + 4.0 \times 4.0 = 26.0$ square feet
 10.0 feet out from end of pipe
 260.0 cubic feet

Excavating back 4.0 feet from end of pipe to 10.0 feet beyond pipe outlet
 $2.5 \times 4.0 + 4.0 \times 4.0 = 26.0$ square feet
 14.0 feet - 4.0 feet from end of pipe

Estimated Volume 13.5 cubic yards

Bulgrin Dam
CIPP

Plan View - Pipe Outlet



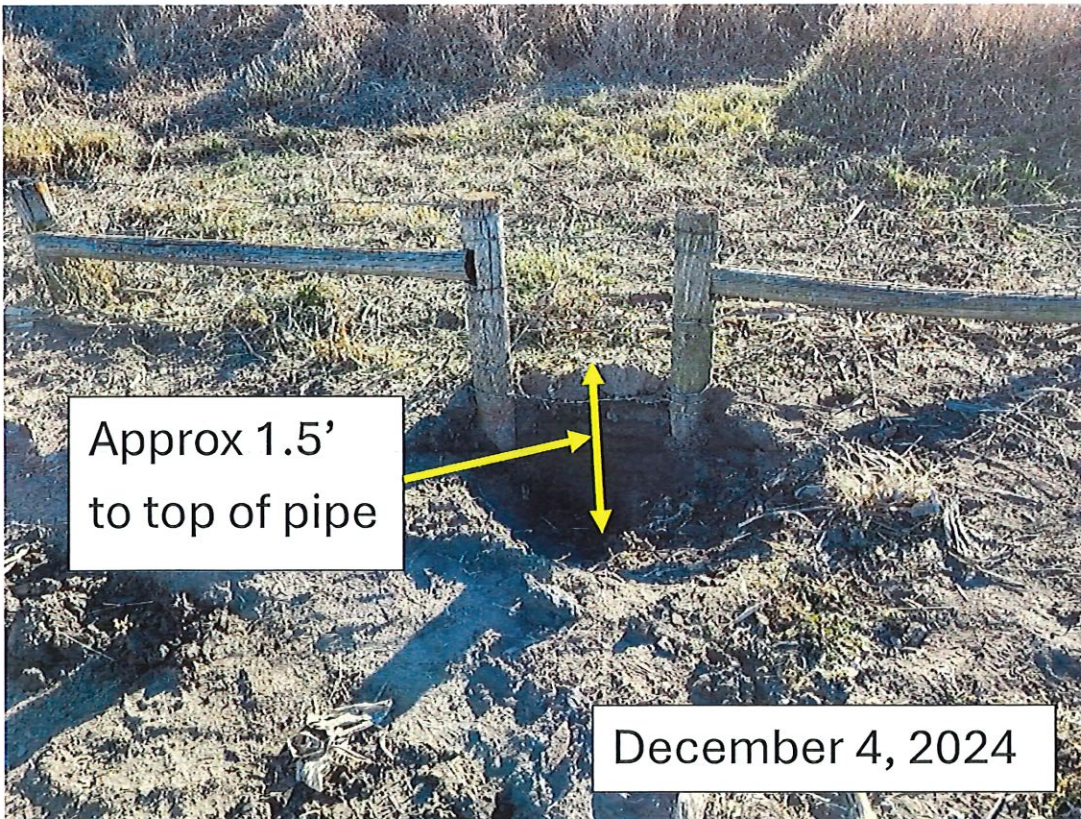
Plan View

- Excavate approximately 1.0 feet below pipe
- Excavate approximately 4.0 feet upstream from pipe outlet
- Excavate approximately 10.0 feet downstream from pipe outlet
- Side slope of excavation at approximately 1:1

Bulgrin Dam – Riser



Bulgrin Dam – Buried Pipe Outlet – December 4, 2024



Bulgrin Dam – Pipe Outlet



Bulgrin Dam – Pipe Outlet





DEPT. OF NATURAL RESOURCES

NEBRASKA DEPARTMENT OF NATURAL RESOURCES
DAM INSPECTION CHECKLIST

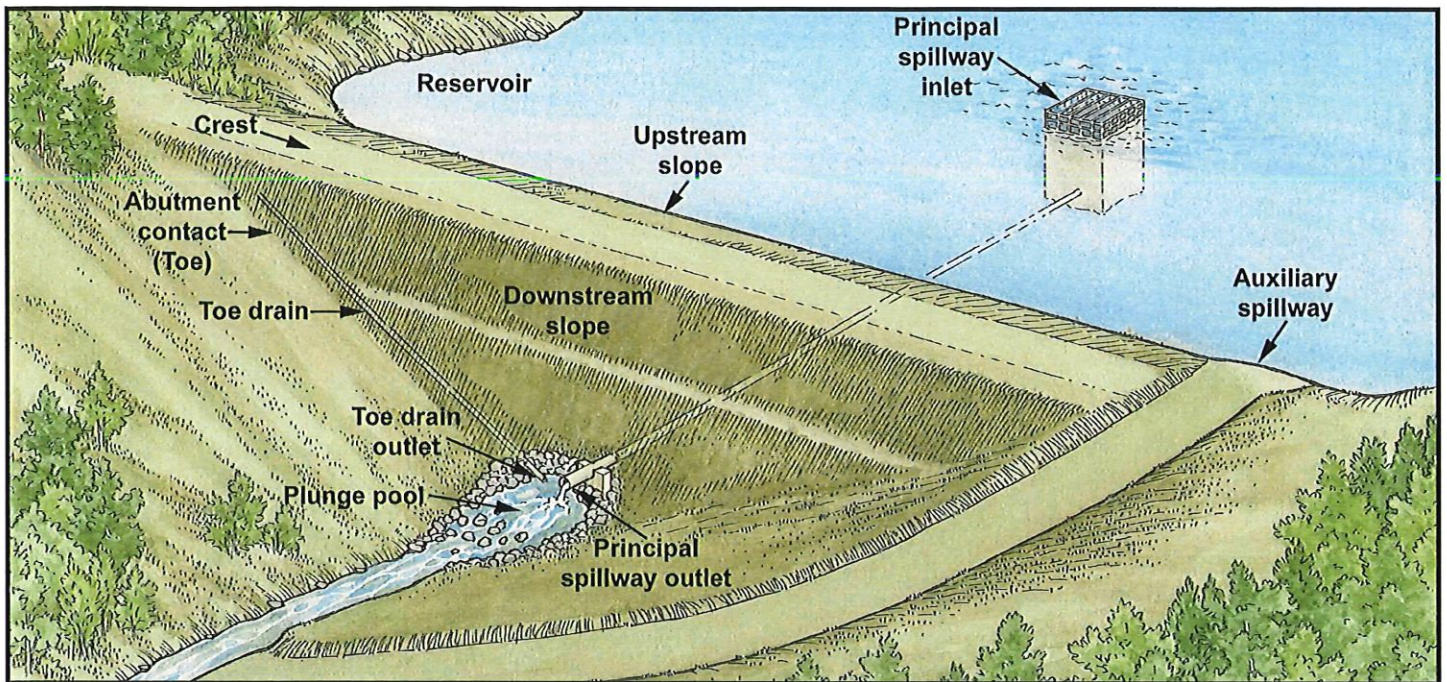
DAM NAME: BULGRIN YORK COUNTY DAM	NID #: NE01754 PLAN #: P-12807 APP #: A-15170 DAM APPROVAL STATUS: Approved
PRIMARY OWNER: Upper Big Blue Natural Resources District 319 East 25th Street York, NE 68467	QRT: SE SEC: 28 TWP: 10 RGE: 1 W COUNTY: York STREAM: TR-BEAVER CREEK HAZARD CLASS: Low YEAR COMPLETED: 1979 HYDRAULIC CAPACITY: Adequate
ADDITIONAL OWNERS:	DAM HEIGHT: 32.00 feet DRAINAGE AREA: 192.0 acres MAX STORAGE: 86.0 acre-ft DAM TYPE: RE - Earthfill NORMAL STORAGE: 22.00 acre-ft DAM LENGTH: 504 ft INSPECTED BY: Jacob Coon INSPECTED: 9/19/2023 REVIEWED BY: Paolla Kovalsky

Deficiency Requiring Attention	General Conditions	Remarks (References to 'left' or 'right' are made as if facing downstream)
	1. Recent High Water Marks	
	2. Downstream Development	
	3. Inadequate Vegetative Cover	
	4. Alterations to Dam	
	Crest	
	5. Settlements or Cracks	
	6. Erosion	
	7. Trees	
	8. Rodent Holes	
	Upstream Slope	
	9. Settlements, Slides, or Cracks	
	10. Erosion	<i>minor wave erosion, left end</i>
	11. Trees	
	12. Rodent Holes	
	Principal Spillway Inlet	Water Surface EL: <i>at riser orifice</i> Est Flow Rate: <i>no flow</i> Size and Type: <i>36-inch diameter CMP riser</i> Drawdown: <i>closed</i>
	13. Spalling, Cracking, or Scaling	
	14. Leakage	
	15. Inadequate Trash Rack	
	16. Obstructions	
	Auxiliary Spillway	Type and Location: <i>dip in the roadway, right abutment</i>
	17. Obstructions	
	18. Erosion	
	19. Rodent Holes	
	20. Vegetation Condition Inadequate	
	Downstream Slope	
	21. Settlements, Slides, or Cracks	
	22. Erosion	
	23. Trees	
	24. Rodent Holes	
	25. Problems at Drain or Well Outlet	Est. Flow Rate:
	26. Seepage or Boils	Est. Flow Rate:
	Principal Spillway Outlet	Size and Type: <i>18-inch diameter CMP</i> Est. Flow Rate: <i>no flow</i>
✓	27. Spalling, Cracking, or Scaling	<i>severe corrosion</i>
	28. Leakage	
	29. Obstruction	
	30. Erosion	
	Plunge Pool/Stilling Basin	
	31. Concrete or Riprap Deterioration	
✓	32. Outlet Channel Obstruction	<i>spillway outlet partially buried</i>
	33. Erosion	

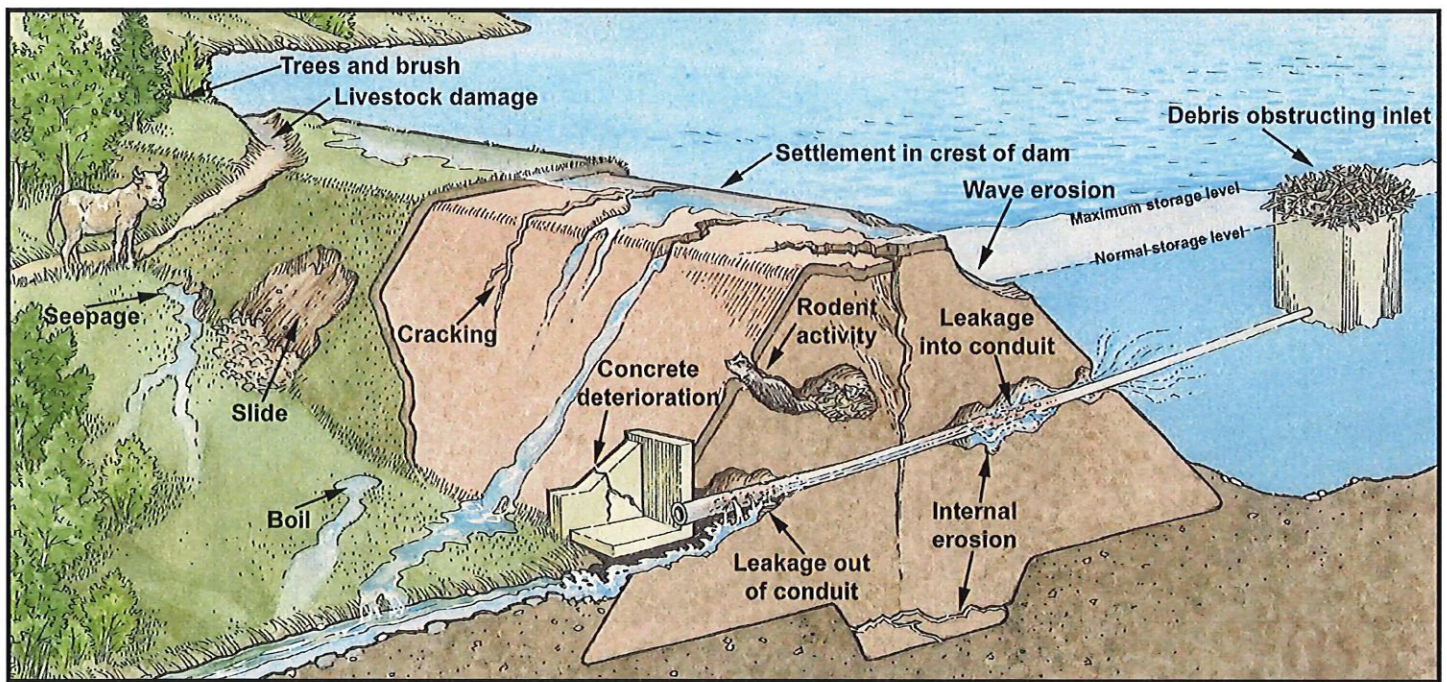
Condition Assessment: *Fair - Deficiencies exist which could lead to dam failure during rare, extreme storm events.*

Additional Comments:

Typical Dam Configuration in Nebraska



Common Problems at Dams in Nebraska



The findings contained in this report were based on a visual inspection of the dam and a review of available records. A more in-depth evaluation or investigation may reveal additional deficiencies that were not discovered during this inspection. The Department of Natural Resources inspects dams in accordance with the Safety of Dams and Reservoirs Act in order to protect downstream life and property from dam failures (Neb. Rev. Stat. §§46-1635 and 46-1664). Before constructing, reconstructing, enlarging, altering, breaching, removing, or abandoning a dam in Nebraska, the dam owner is required to obtain the approval of the Department (Neb. Rev. Stat. §46-1646). Every owner of a dam subject to the Safety of Dams and Reservoirs Act and not previously approved by the Department is required to file plans for the dam with an application (Neb. Rev. Stat. §46-1670). A storage permit is required if the dam has a normal storage capacity of 15 acre-feet or more below the lowest open overflow, or if the water in the reservoir will be pumped or released for a beneficial purpose (Neb. Rev. Stat. §46-241). Inspection of the dam and the issuance of this inspection report in accordance with Neb. Rev. Stat. §46-1664, in no way changes the approval status of a dam. If you have questions regarding the approval status of your dam, the approval process, or the need for a storage permit, please contact the Department of Natural Resources at 402-471-2363.

Top of Dam



Upstream Slope



Downstream Slope



Principal Spillway Inlet



Principal Spillway Outlet



Another view of the principal spillway outlet and plunge pool.



Looking Downstream at Auxiliary Spillway Outlet



Exhibit H
LINK TO PIPE INSPECTION VIDEO

https://ubbnrd-my.sharepoint.com/:v:/g/personal/chouston_upperbigblue_org/ETDkSnQzUN1ErVd3pZm3inwBONPpc5pQBNpwyQNsQmK_0g?e=e7G8XS&referrer=Outlook.Desktop&referrerScenario=email-linkwithembed

CONTRACTOR'S SCHEDULE OF VALUES FOR THE BULGRIN ROAD DAM – CURED IN PLACE PIPE – RISER & OUTLET PIPE					
Item #	Description	Quantity	Unit	Unit Price (\$)	Amount (\$)
1	Mobilization	1	LS		
2	Road Signage (as coordinated with UBBNRD and/or the York County Roads Department)	1	LS		
3	Miscellaneous Site Prep (Removal/re-installation of riser trashrack, removal/re-installation of fencing on upstream and downstream embankments, minor earthwork near riser.	1	LS		
4	Removal of fill material around outlet works pipe and downstream of outlet	14	cu yds		
4	Repair of severely eroded end of pipe 18" diameter CMP outlet	1	LS		
5	Clean and remove any debris or silt from the inside of the 36" riser and the 18" outlet pipe	1	LS		
5	Furnish and install glass reinforced UV CIPP liner on the 36" diameter riser	4	ft		
6	Furnish and install glass reinforced UV CIPP liner on 18" outlet pipe	139	ft		
7	Furnish and install epoxy to seal riser/outlet pipe connection area	1	LS		
TOTAL =					

Contractor will complete Work for the Unit Prices listed above in accordance with Design Drawings.

Contractor acknowledges that quantities are estimates and that final payment for all unit priced items will be based on actual quantities including any Change Orders.

Contractor agrees that the Work will be completed prior to **May 30, 2025**.

AS SUBMITTED BY:

Business Name (typed or printed): _____

By: (typed or printed Signature Name) _____

By: _____
(Signature)

(Date)