### IOWA DEPARTMENT OF NATURAL RESOURCES

## CONSTRUCTION DOCUMENTS FOR **ODESSA WILDLIFE UNIT** FLOOD DAMAGE REPAIRS REBID

LOUISA COUNTY, IOWA

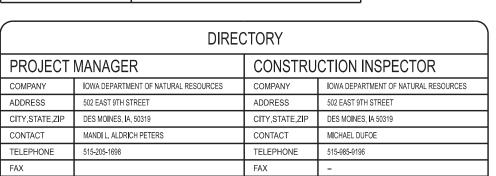
PROJECT # 21-06-58-04



**EMAIL** 

Mandi Lu Aldrich Peters Digitally signed by Mandi Lu Aldri Date: 2022.01.18 11:05:44 -06:00

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Michael.Dufoe@dnr.iowa.gov

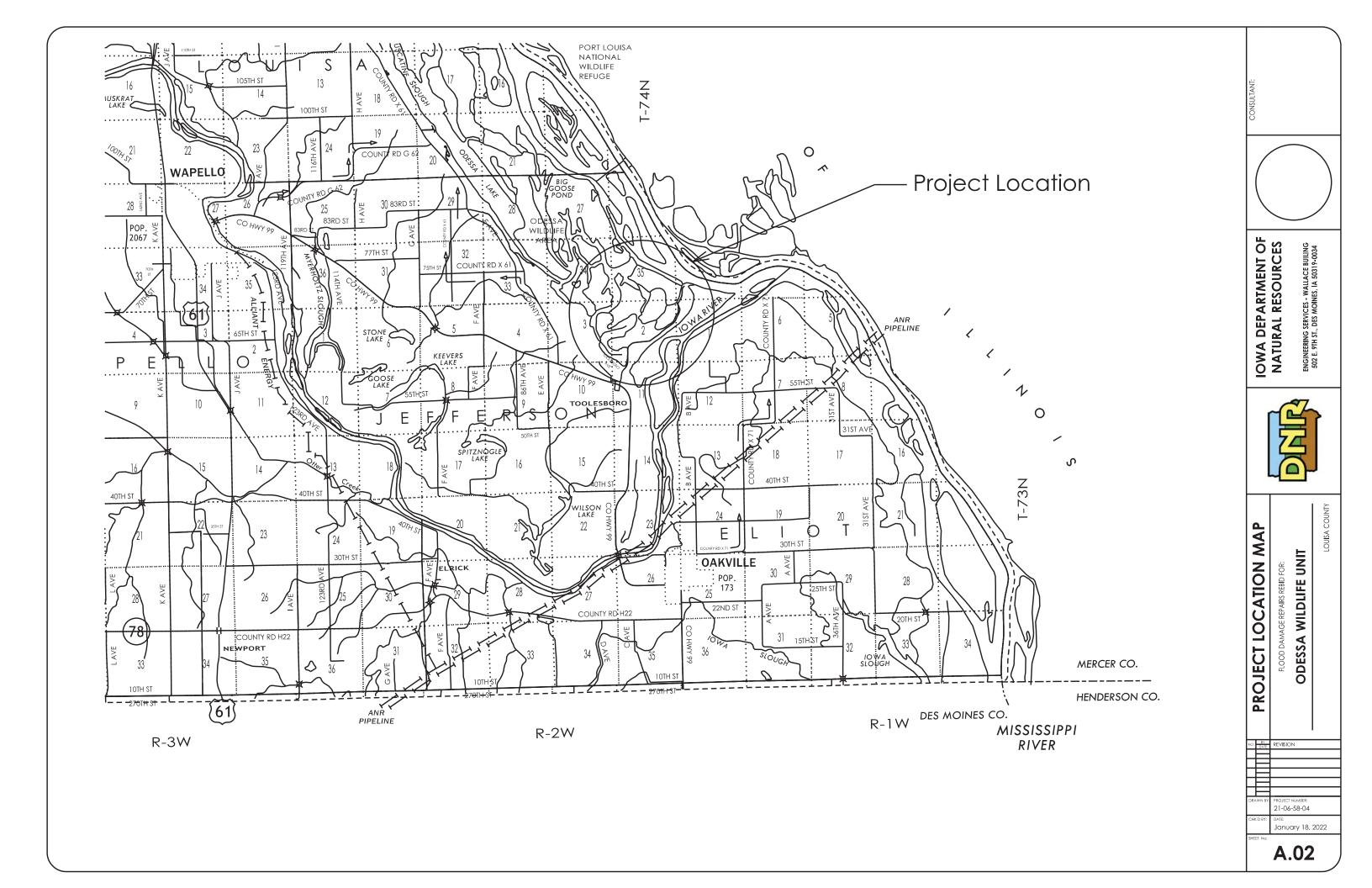


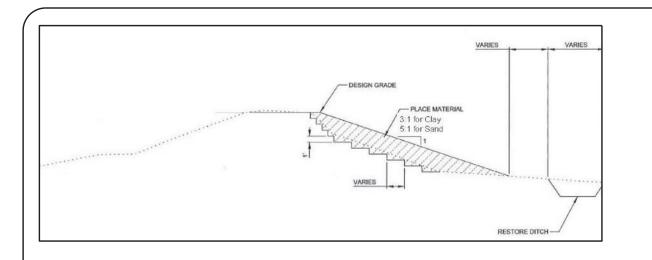
#### PROJECT DESCRIPTION

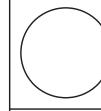
This project involves clearing and grubbing, grading, placing fill, placing erosion mat, and seeding and fertilizing FEMA repair areas in Louisa County in the Odessa Wildlife Unit.

AUTHORIZATION TO BID			
Monica	Digitally signed by Monica Thelen		
Thelen	Date: 2022.01.17 12:45:30 -06'00'		
AUTHORIZATION - PARKS   WILDLIFE   FISHEF			
Travis Baker	Digitally signed by Travis Baker Date: 2022.01.18 10:49:49 -06'00'		
ENGINEERING BUREAU CHIEF	DATE		

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A.01	Cover Sheet					
A.02	Project Location Maps					
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ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

IOWA DEPARTMENT OF NATURAL RESOURCES

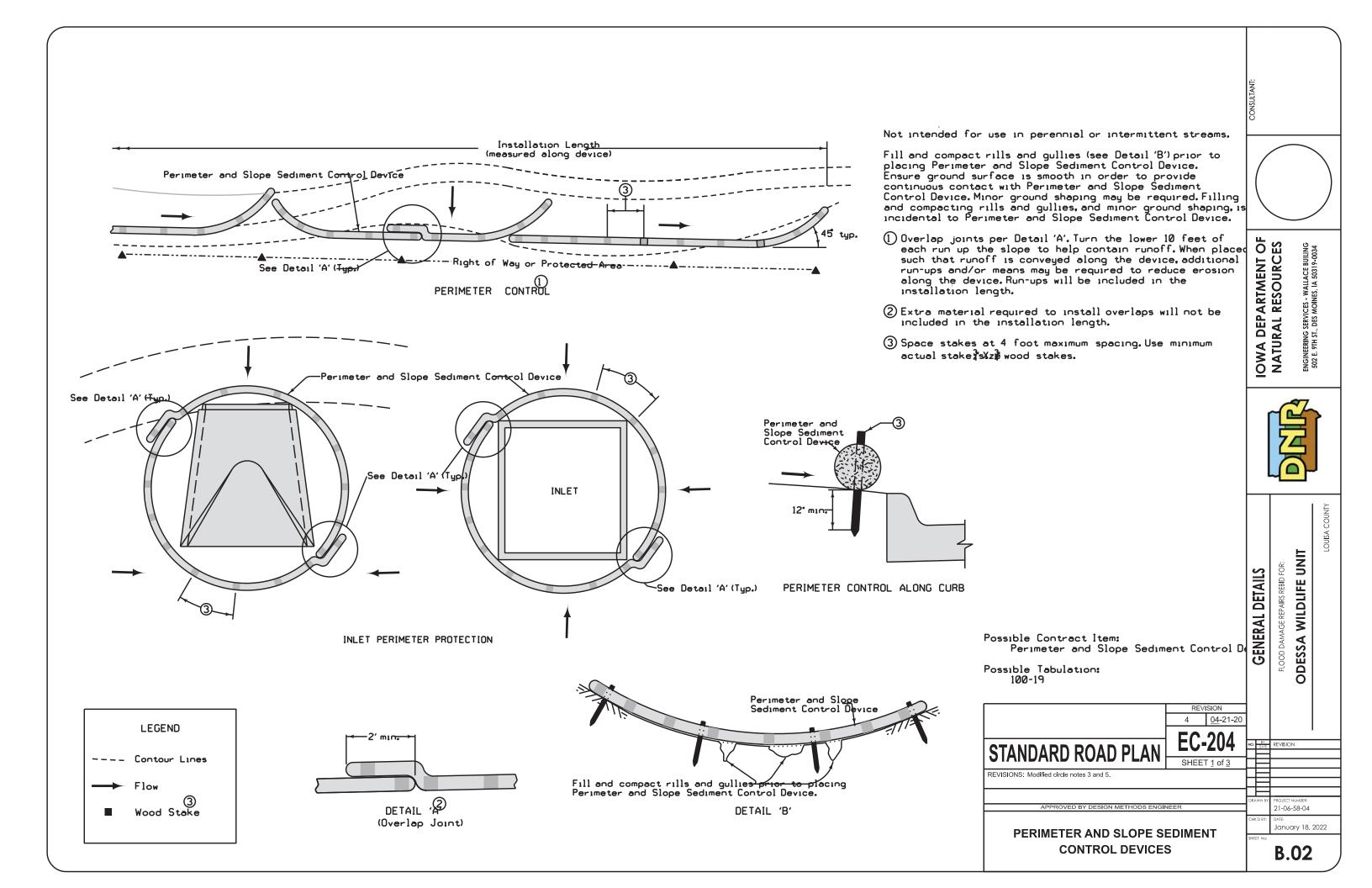
FLOOD DAMAGE REPAIRS REBID FOR: ODESSA WILDLIFE UNIT

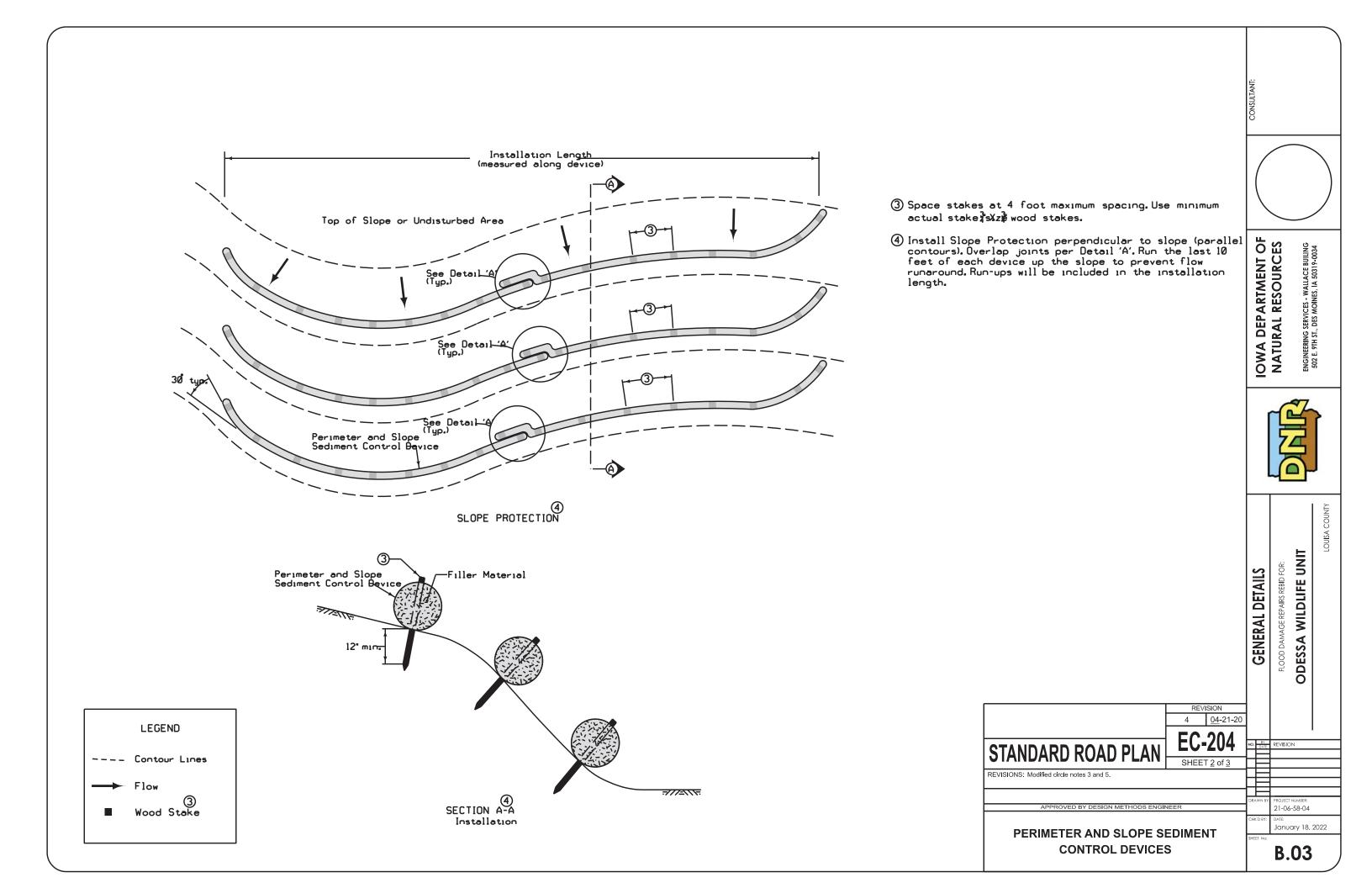
**GENERAL DETAILS** 

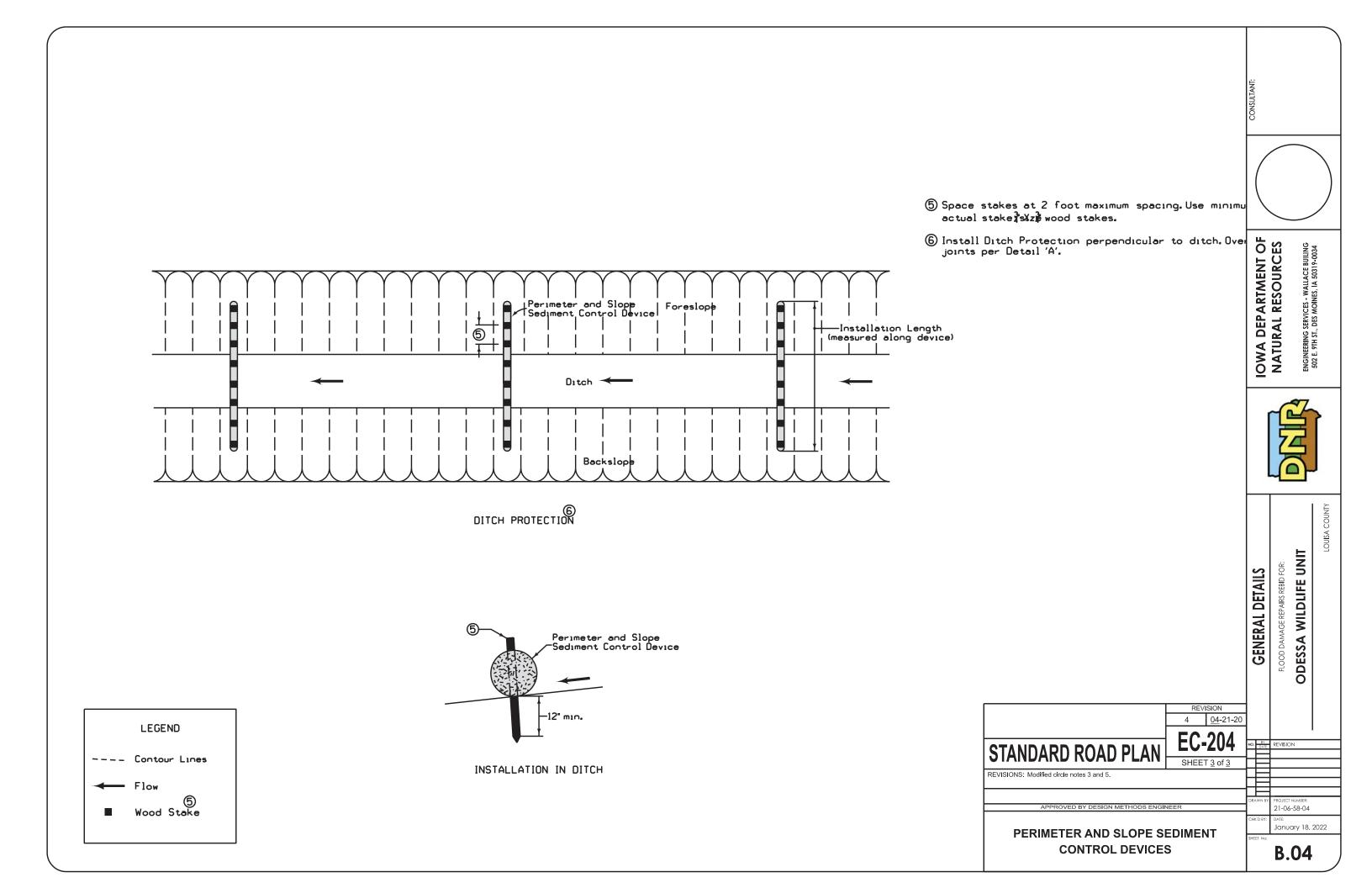
21-06-58-04

January 18, 2022

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#### **ESTIMATED PROJECT QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL	
1	Earthwork, Fill Hauled and Placed, Clean Sand (Site 1)	CY	297	
2	Erosion Control Mat, RECP Type 2.A (Site 1)	SY	112	
3	Seeding and Fertilizing (Site 1)	ACRES	0.1	
4	Earthwork, Fill Hauled and Placed, Clay (Site 2)	CY	3,260	
5	Erosion Control Mat, RECP Type 2.C (Site 2)	SY	4,889	
6	Seeding and Fertilizing(Site 2)	ACRES	1.5	
7	Earthwork, Fill Hauled and Placed, Clay and Clean Sand (Site 3)	CY	5	
8	Erosion Control Mat, RECP Type 2.C (Site 3)	SY	14	
9	Seeding and Fertilizing (Site 3)	ACRES	0.1	
10	Earthwork, Fill Hauled and Placed, Clay and Clean Sand (Site 4)	CY	3	
11	Erosion Control Mat, RECP Type 2.C (Site 4)	SY	9	
12	Seeding and Fertilizing (Site 4)	ACRES	0.1	
13	Earthwork, Fill Hauled and Placed, Clay and Clean Sand (Site 5)	CY	3	
14	Erosion Control Mat, RECP Type 2.C (Site 5)	SY	9	
15	Seeding and Fertilizing (Site 5)	ACRES	0.1	
16	Earthwork, Fill Hauled and Placed, Clay and Clean Sand (Site 6)	CY	1	
17	Erosion Control Mat, RECP Type 2.C (Site 6)	SY	3	
18	Seeding and Fertilizing (Site 6)	ACRES	0.1	
19	Earthwork, Fill Hauled and Placed, Clay and Clean Sand (Site 7)	CY	17	
20	Erosion Control Mat, RECP Type 2.C (Site 7)	SY	51	
21	Seeding and Fertilizing (Site 7)	ACRES	0.1	
22	Seeding and Fertilizing (Construction Road)	ACRES	3.1	
23	Mobilization	LS	1	

#### **ESTIMATE REFERENCE INFORMATION**

	ESTIMATE REFERENCE IN ORMANON			
ITEM NO.				
	Earthwork, Fill Hauled and Placed (All sites)			
1	A. Borrow material shall be contractor furnished.			
	B. All borrow or fill material must come from pre-existing stockpiles, material reclaimed from maintained roadside ditches (provided the designed width or depth of the ditch is not increased), or commercially procured material from a source existing prior to the event, March 12, 2019 (i.e. an existing quarry that has been licensed prior to the event).			
	For any FEMA-funded project requiring the use of a non-commercial source or a commercial source that was not permitted to operate prior to the event (e.g. a new pit, agricultural fields, road ROWs etc.) in whole or in part, regardless of cost, the Applicant must notify FEMA and the Recipient prior to extracting material. FEMA must review the source for compliance with all applicable federal environmental planning and historic preservation laws and executive orders prior to a subrecipient or their contractor commencing borrow extraction. Consultation and regulatory permitting may be required. Non-compliance with this requirement may jeopardize receipt of federal funding.			
	Documentation of borrow sources utilized is required at closeout.			
1	C. Place fill as directed by the DNR Inspector.			
1	D. Clearing, grubbing and stripping vegetation shall be incidental.			
	E. Steel plates to protect outlet structure crossing shall be incidental.			
	Erosion Control Mat, RECP Type 2.A (Site 1)			
1	Erosion Control Mat, RECP Type 2.C (Site 2-7)			
	A. Clearing, grubbing and stripping vegetation shall be incidental.			
1	B. Placed on repaired side slope.			
	C. SUDAS Standard Specifications, Section 9040 - Erosion and Sediment Control-2.05			
	Seeding and Fertilizing (All sites and construction road)			

#### NOTES

1. Damage to the levee due to access and construction activities shall be repaired to pre-construction conditions and shall be incidental.

A. Seed with a cover crop of oats seeded at 1 bushels per acre immediately upon completion of earthwork shall be incidental.

B. Seed mix below to be planted between August 1 - September 30.

Smooth Brome 6 lbs/ac Perennial Rve 6 lbs/ac Tall Fescue 10 lbs/ac Red Clover 4 lbs/ac

- 2. The dike shall be mowed short to facilitate snake visibility (during the active season) in the area where equipment will be in use.
- 3. The Contractors shall be made aware of the potential for state-listed snakes in the area through September. If a snake is observed, the contractor shall avoid contact with the snake and notify DNR staff for assistance in moving it to a safer location outside of the construction area should that be necessary.

#### **GENERAL NOTES**

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor is responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

OWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034



ROOD DAMAGE REPAIRS REBID FOR:

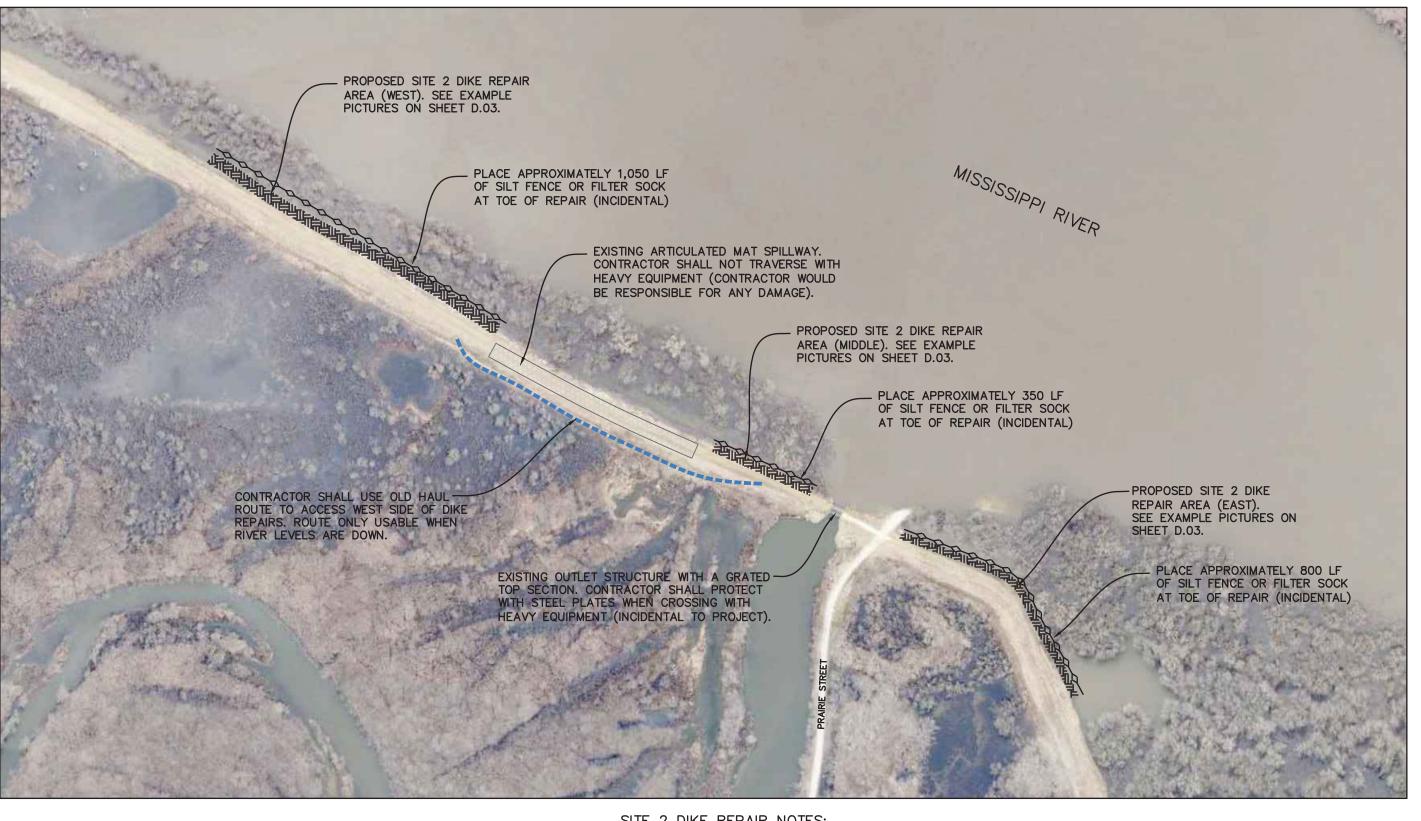
ODESSA WILDLIFE UNIT

QUANTITIES AND GENERAL INFORMATION

21-06-58-04 January 18, 2022

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#### SITE 2 DIKE REPAIR NOTES:

- 1. EMBANKMENT FILL AREAS TO BE MARKED BY THE IOWA DNR FIELD ENGINEER AND ARE APPROXIMATELY 20' WIDE BY 2' DEPTH IN THE AREAS SHOWN (2,200 LF TOTAL FOR AN APPROXIMATE FILL QUANTITY OF 3,260 CY).
- 2. CONTRACTOR SHALL CLEAR, GRUB AND STRIP ALL VEGETATION AND TOPSOIL TO A 6-INCH DEPTH (INCIDENTAL).
- 3. PLACE CLAY FILL IN 8-INCH COMPACTED LIFTS STAIR STEPPED PER DETAIL ON SHEET B.01.
- 4. PLACE ANY REMAINING STRIPPED TOPSOIL OVER THE CLAY FILL (INCIDENTAL).
- 5. SEED, FERTILIZE AND PLACE EROSION CONTROL MATTING (APPROXIMATELY 4,889 SY).
- 6. SILT FENCE AND/OR 8" FILTER SOCK TO BE PLACED AT THE TOE OF THE REPAIRS (INCIDENTAL).

# IOWA DEPARTMENT OF NATURAL RESOURCES



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ODESSA WILDLIF

DIKE REPAIR PLAN

BY DATE	REVISION
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DRAWN BY:	PROJECT NUMBER: 21-06-58-04
CHK'D BY: H.D	JANURARY 2022

D.02





DIKE REPAIR PLAN - SITE 2

JANURARY 2022

D.03

AT THE TIME OF BIDDING, SITE 2 MAY BE DIFFICULT TO ACCESS OR VIEW DUE TO SNOW AND VEGETATION COVER. BELOW ARE EXAMPLE PICTURES OF THE DAMAGE.

WEST END







MIDDLE AREA



EAST END