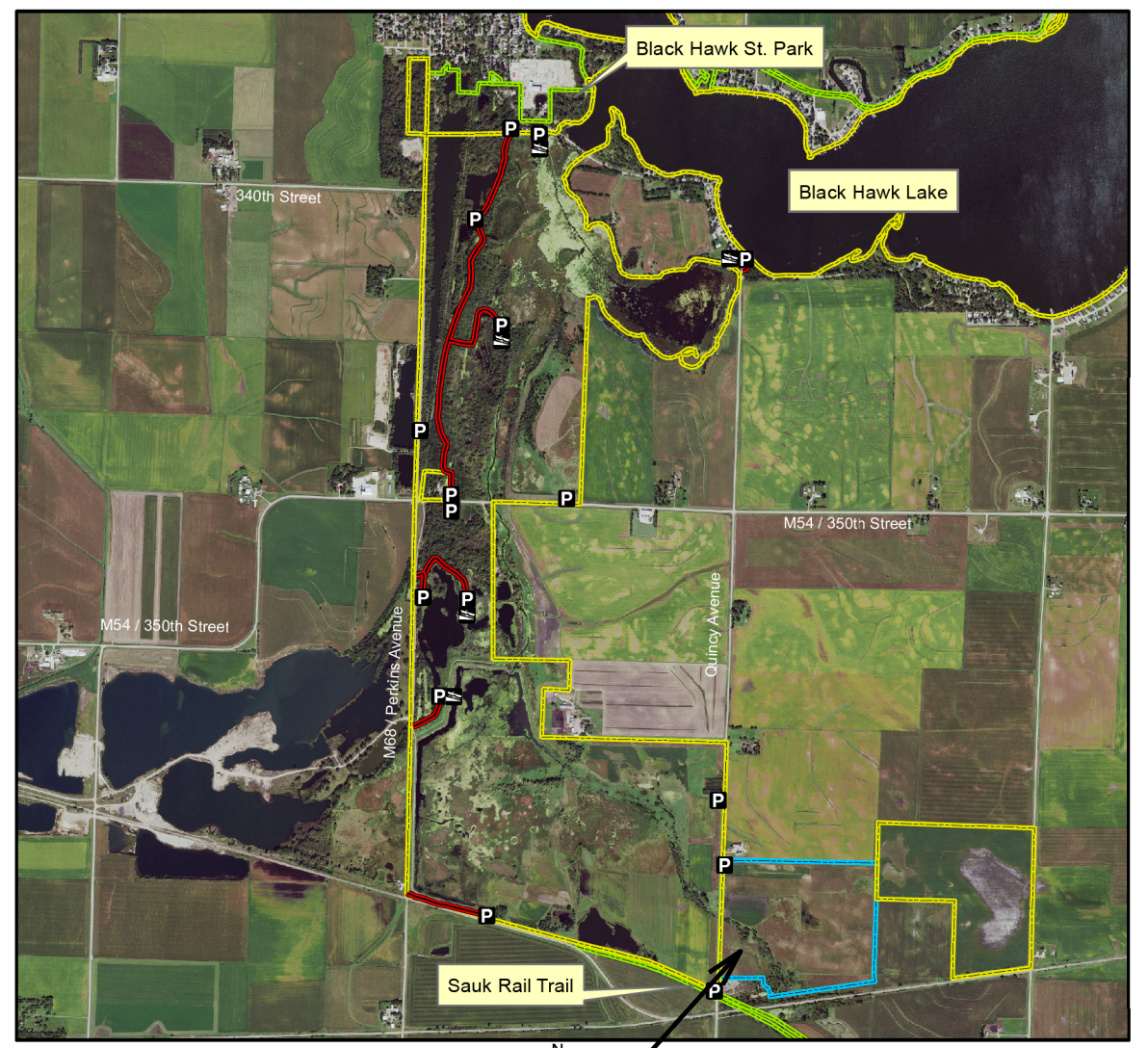


CARROLL CO.

R-36W

PROJECT LOCATION

Black Hawk Marsh Wildlife Management Area



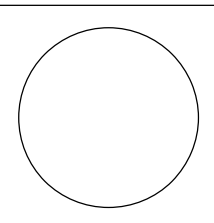
Legend		Map Creation Date: 11/2016	
State Areas open to hunting		DNR	
WMA Boundary		Miles 0 0.25 0.5	
WPA Boundary		Acres: 2,027	
Parking Lot		Habitat: 1/2 Upland, 1/4 Marsh 1/4 Timber	
Boat Ramp		Species: Deer, Pheasant, Waterfowl, Dove	
Access Road		Contact: Clint Maddix Blackhawk Wildlife Unit 712-657-2639	
Other Public Land		Restrictions: Non-Toxic Shot	
2015 Aerial Photography			

Sac County, Iowa
T-86,87N, R-36W,
Sections 4,9,15,16,32,33

Directions: 1.5 miles W of Carnarvon
on D59, 1 mile N on M68

Every effort has been made to accurately depict the boundaries on this map. However, users should rely on boundary signs actually located in this area to ensure they do not trespass on private property.

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

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



PROJECT LOCATION MAP

STREAMBANK STABILIZATION FOR:

BLACK HAWK MARSH WPA

SAC COUNTY

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
23-01-81-01

CHK'D BY: DATE:

SHEET NO.:

A.02

ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	Mobilization	Lump Sum	1
2	6"-12" Fieldstone	Tons	2,384
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION										
2	<p>A. This line item includes the supply and installation of native fieldstone material. Material gradation shall generally be in compliance with the following:</p> <table border="0"> <tr> <td>Percent Passing</td> <td>Size</td> </tr> <tr> <td>100</td> <td>12"</td> </tr> <tr> <td>85</td> <td>6" - 11"</td> </tr> <tr> <td>50</td> <td>6" - 9"</td> </tr> <tr> <td>15</td> <td>2" - 3"</td> </tr> </table> <p>Due to the limited availability and gradation of fieldstone, the material does not have to directly meet the size specified. At a minimum, the material shall be well graded between 12" and 6" stones. The engineer shall approve the gradation prior to delivery and placement.</p>	Percent Passing	Size	100	12"	85	6" - 11"	50	6" - 9"	15	2" - 3"
Percent Passing	Size										
100	12"										
85	6" - 11"										
50	6" - 9"										
15	2" - 3"										

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's 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.

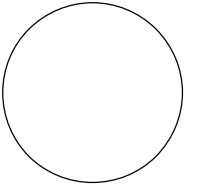
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of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

CONSULTANT:



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QUANTITIES AND GENERAL INFORMATION

STREAMBANK STABILIZATION FOR:

BLACK HAWK MARSH WPA

SAC COUNTY

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
23-01-81-01

CHK'D BY: DATE:

SHEET No:

C.01

