

Lake Sugema Wildlife Management Area



Legend Map Creation Date: 2/2016

- State Areas open to hunting
- WMA Boundary
- Unit Headquarters
- Parking Lot
- Boat Ramp
- Access Road
- Other Public Lands
- 2015 Aerial Photography

DNR

Acres: 3,915

Habitat: 1/5 Water, 1/5 Timber, 3/5 Upland

Species: Deer, Turkey, Rabbit, Quail, Dove

Contact: Jeff Glaw
Sugema Wildlife Unit
319-293-7185

Restrictions: Closed Canada Goose Area #13

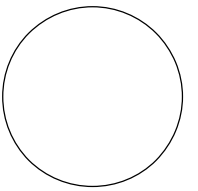
Van Buren County, Iowa
T-68N, R-10&11W,
Sections 1,4-10,14-18,21-23

Directions: 5 miles W of Keosauqua on J40,
1 mile S.

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.

PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

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



PROJECT LOCATION MAP

JETTY AND SHORELINE REPAIRS FOR:

LAKE SUGEMA WMA

VAN BUREN COUNTY

NO.	BY	REVISION

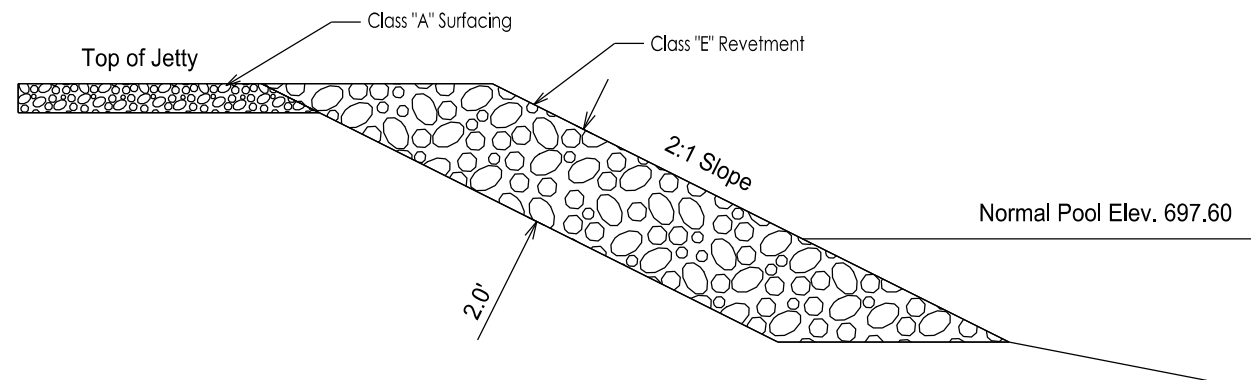
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20-06-89-02

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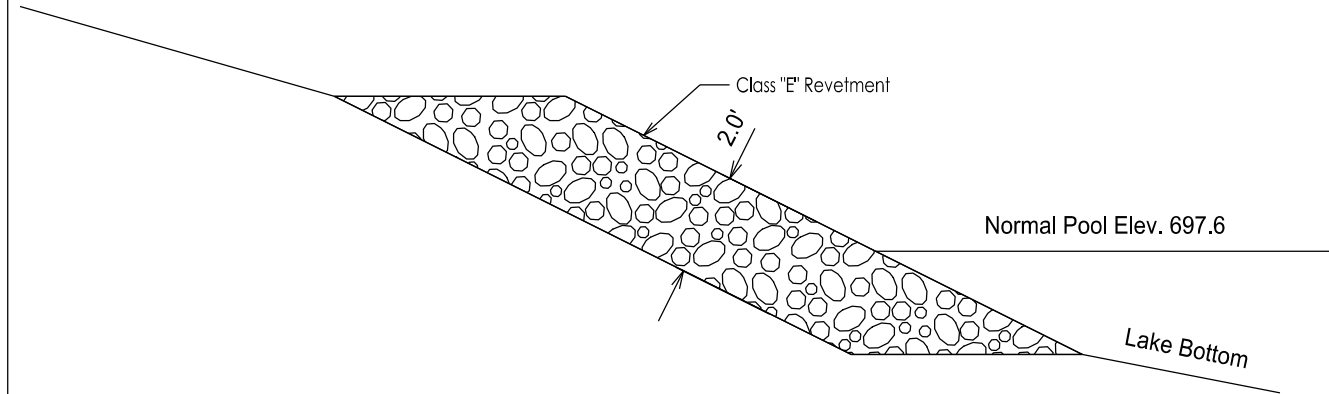
A.02

Jetty No.	Repair Length	Height	Class 'E' Revetment	Class 'A' Surfacing
1	75'	5'	101 Tons	20 Tons
2	40'	5'	54 Tons	15 Tons
3	65'	5'	87 Tons	15 Tons
4	35'	5'	47 Tons	10 Tons
5	120'	5'	161 Tons	15 Tons
6	85'	5'	114 Tons	20 Tons
7	140'	5'	188 Tons	15 Tons
8	180'	5'	242 Tons	20 Tons
9	130'	5'	175 Tons	15 Tons
10	55'	5'	74 Tons	15 Tons



Notes:

1. Partial disassembly and re-assembly of barrier cables for access at jetties 2, 3, 4, and 5 incidental to Class "E" Revetment.
2. Trimming of trees and brush for access is incidental to Class "E" Revetment.
3. Seeding, fertilizing, and mulching to include all disturbed areas. Seeding mixture to be fine lawns.
4. Materials allocated for a site or jetty may be reallocated to another site or jetty at the DNR Field Engineer's discretion.
5. See sheet D.01 for Jetty locations.

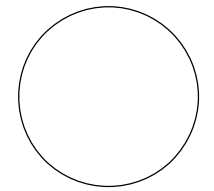


Shoreline Site	Repair Length	Height	Class 'E' Revetment
A	170'	3'	137 Tons
B	120'	5'	161 Tons
C	360'	5'	484 Tons
D	120'	3'	97 Tons
E	180'	4'	193 Tons

Notes:

1. Any clearing and grubbing for access or placement of revetment shall be incidental to Class "E" Revetment.
2. Target slope for revetment is 2:1, but may be adjusted by DNR Field Engineer due to site conditions.
3. Any grading necessary for placement of revetment shall be incidental to Class "E" Revetment.
4. Seeding, fertilizing, and mulching to include all disturbed areas. Seeding mixture to be rural mix.
5. See sheet D.01 for shoreline site locations.
6. Contractor must avoid guy lines, anchors, and any utilities at Shoreline Site B.

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TYPICAL SECTIONS AND DETAILS

JETTY AND SHORELINE REPAIRS FOR:

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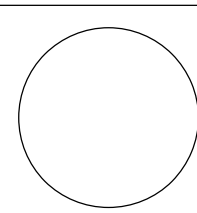
B.01

ESTIMATED PROJECT QUANTITIES			
ITEM NO.	ITEM	UNIT	TOTAL
1	Mobilization	L.S.	1
2	Revetment, Class "E"	Tons	2,315
3	Class "A" Crushed Stone Surfacing	Tons	160
4	Site Restoration	L.S.	1

ESTIMATE REFERENCE INFORMATION	
ITEM NO.	DESCRIPTION
2	A. Contractor shall place revetment on jetties as directed by DNR Field Engineer. B. Partial disassembly and re-assembly of barrier cables for access at jetties 2, 3, 4, and 5 shall be incidental to this bid item. C. Trimming of trees and brush for access shall be incidental to this bid item.
3	A. Class 'A' crushed stone shall be placed as directed by DNR Field Engineer.
4	A. Site restoration to include seeding, fertilizing and mulching of all disturbed areas as directed by DNR Field Engineer.

GENERAL NOTES
<p>Verify actual locations and elevations with DNR Engineer.</p> <p>All work shall conform to and be performed in accordance with all applicable codes and ordinances.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.</p> <p>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.</p>

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QUANTITIES AND GENERAL INFORMATION

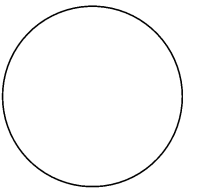
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C.01



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SITE PLAN

JETTY AND SHORELINE REPAIRS FOR:
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D.01