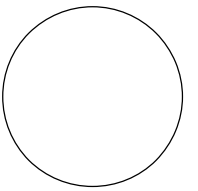


PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

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



PROJECT LOCATION MAP

FEMA REPAIRS FOR:

DECORAH FISHERIES MANAGEMENT UNIT

WINNEBAGO COUNTY

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| DRAWN BY: | PROJECT NUMBER: |
| | 20-03-96-04 |
| CHK'D BY: | DATE: |
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SHEET NO:

A.02

| ESTIMATED PROJECT QUANTITIES | | | |
|------------------------------|-----------------------|------|-------|
| ITEM NO. | ITEM | UNIT | TOTAL |
| 1 | Mobilization | L.S. | 1 |
| 2 | Excavation, Class 10 | C.Y. | 4,342 |
| 3 | Revetment, Class E | Tons | 1,980 |
| 4 | PCC Walkway, 6" Depth | S.Y. | 85 |
| 5 | Clearing and Grubbing | L.S. | 1 |
| 6 | Site Restoration | L.S. | 1 |
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| ESTIMATE REFERENCE INFORMATION | |
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| ITEM NO. | DESCRIPTION |
| 2 | A. Includes all earthwork necessary to complete project. B. All excavated materials shall be removed and disposed of off site. |
| 3 | A. Place revetment as indicated in plans. B. Full depth saw cut of existing walkway as indicated on sheet D.05 is incidental to this item. |
| 4 | A. PCC walkway 8ft. wide X 6in. See sheet D.05 B. Furnish and install Class A crushed stone base, 6in. depth to be placed under PCC walkway. See sheet D.05. Incidental to this item. |
| 5 | A. Remove trees, stumps, and brush as directed by DNR Field Engineer. See sheet D.01. B. Trees, stumps, and brush must be removed from site. |
| 6 | A. Contractor shall hydroseed/hydromulch all areas of disturbance as directed by DNR Field Engineer. B. Seed mixture shall be Native Grass and Forbs (Wildflower) Seeding Mixture per table 9010.13 of SUDAS Standard Specifications. C. Hydromulch Bonded Fiber Matrix (BFM) per Section 9010-2.07 of SUDAS Standard Specifications. |

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.

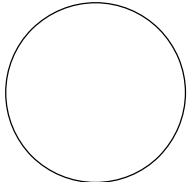
The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

The contractor shall coordinate with Field Staff to manage trail traffic. Signs may need to be provided to remind trail users that a section of trail is closed on certain days. The trail is very high use, so trail users will be adjacent to the work site on a daily basis.

Straw wattles will be provided by the Iowa DNR. Contractor will be responsible for installing wattles as soon as site repair is completed, or as directed by DNR Field Engineer, to minimize erosion. Exposed soil around wattles to be hydroseeded at completion of project.

The contractor shall repair or replace any portion of the trail damaged by construction equipment as directed by the DNR Field Engineer.

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



QUANTITIES AND GENERAL INFORMATION

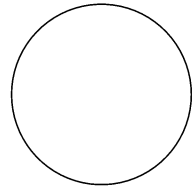
FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
 WINNEBAGO COUNTY

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| DRAWN BY: | PROJECT NUMBER: |
| CHK'D BY: | 20-03-96-04 |
| DATE: | |



CONSULTANT:



**IOWA DEPARTMENT OF
NATURAL RESOURCES**

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



OVERALL SITE PLAN

FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
WINNEBAG COUNTY

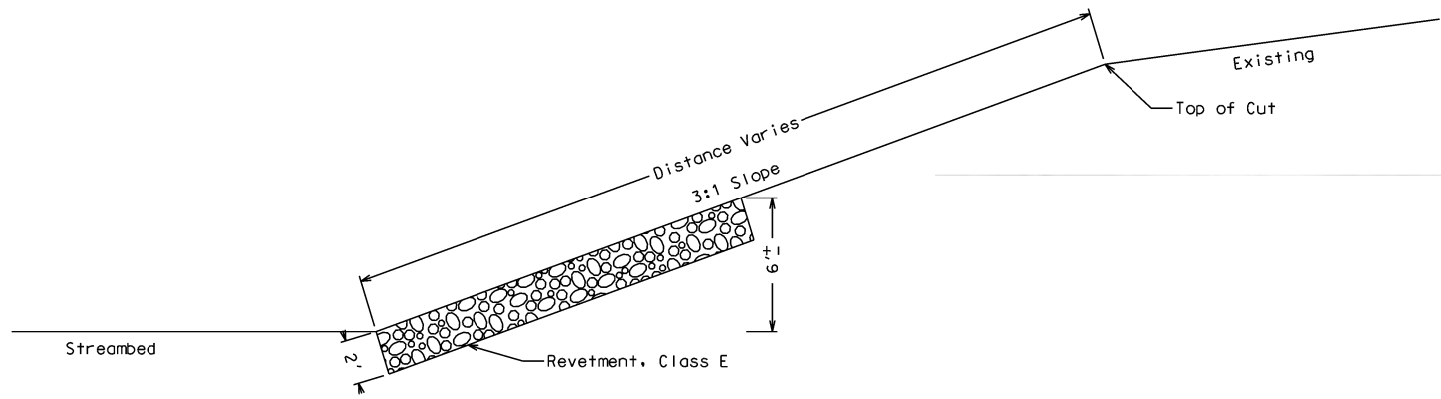
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DRAWN BY: PROJECT NUMBER:
20-03-96-04

CHK'D BY: DATE:

SHEET No:

D.01



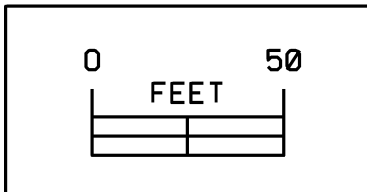
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| Streambank Repair | | | |
|-------------------|-------|------------|-----------|
| Length | Slope | Excavation | Revetment |
| 300' | 3:1 | 1,347 CY | 636 Tons |

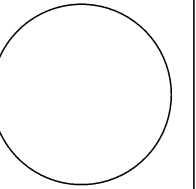
Notes:
Contractor shall remove trees, logs, stumps and brush as directed by DNR Field Engineer. Material to be disposed of off site.

All excavated material to be disposed of off site.

Quantities include upstream and downstream keys into bank. Dimensions of the keys are 20' x 6"V x 4"W with an estimated 18 CY of excavation and 26 tons of Revetment, Class E for each key. These will be placed as directed by the DNR Field Engineer.



CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

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



SITE A PLAN

FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
WINNEBAGO COUNTY

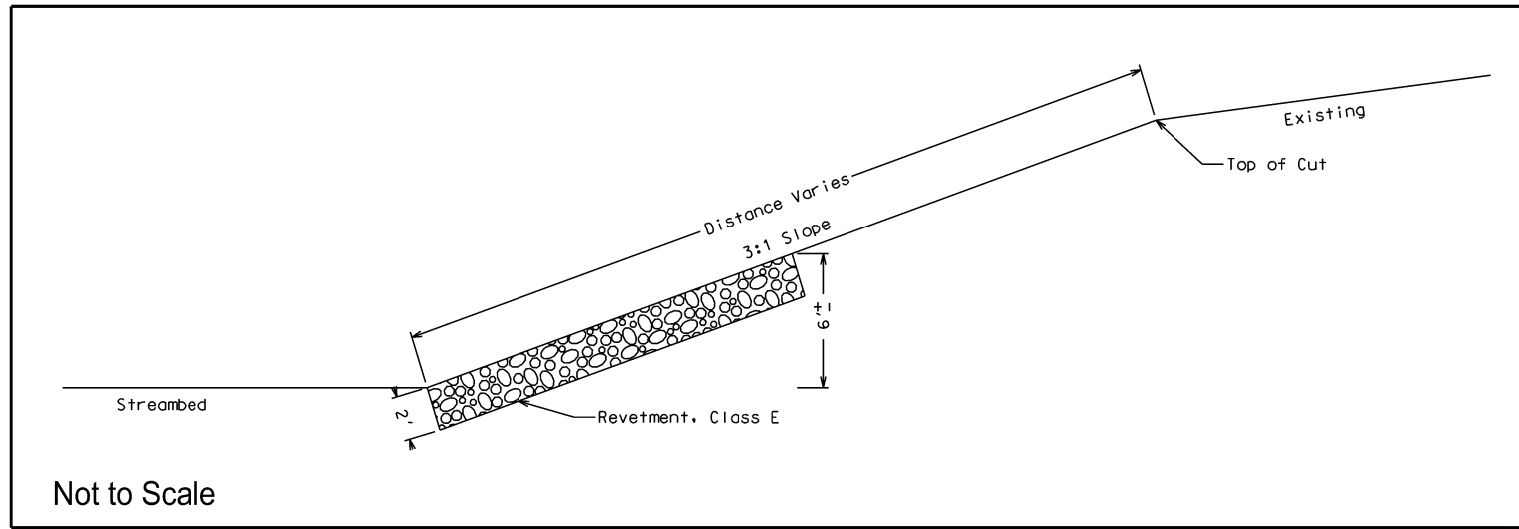
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20-03-96-04

CHK'D BY: DATE:

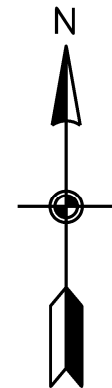
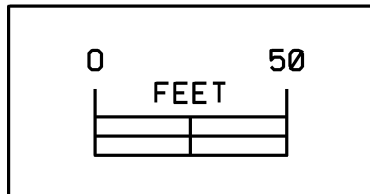
SHEET No:

D.02

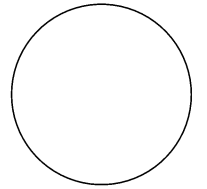


| Streambank Repair | | | |
|-------------------|-------|------------|-----------|
| Length | Slope | Excavation | Revetment |
| 174' | 3:1 | 1,235 | 408 Tons |

Notes:
 Contractor shall remove trees, logs, stumps and brush as directed by DNR Field Engineer. Material to be disposed of off site.
 All excavated material to be disposed of off site.
 Quantities include upstream and downstream keys into bank. Dimensions of the keys are 20' x 6'V x 4'W with an estimated 18 CY of excavation and 26 tons of Revetment, Class E for each key. These will be placed as directed by the DNR Field Engineer.



CONSULTANT:



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 502 E. 9TH ST., DES MOINES, IA 50319-0034



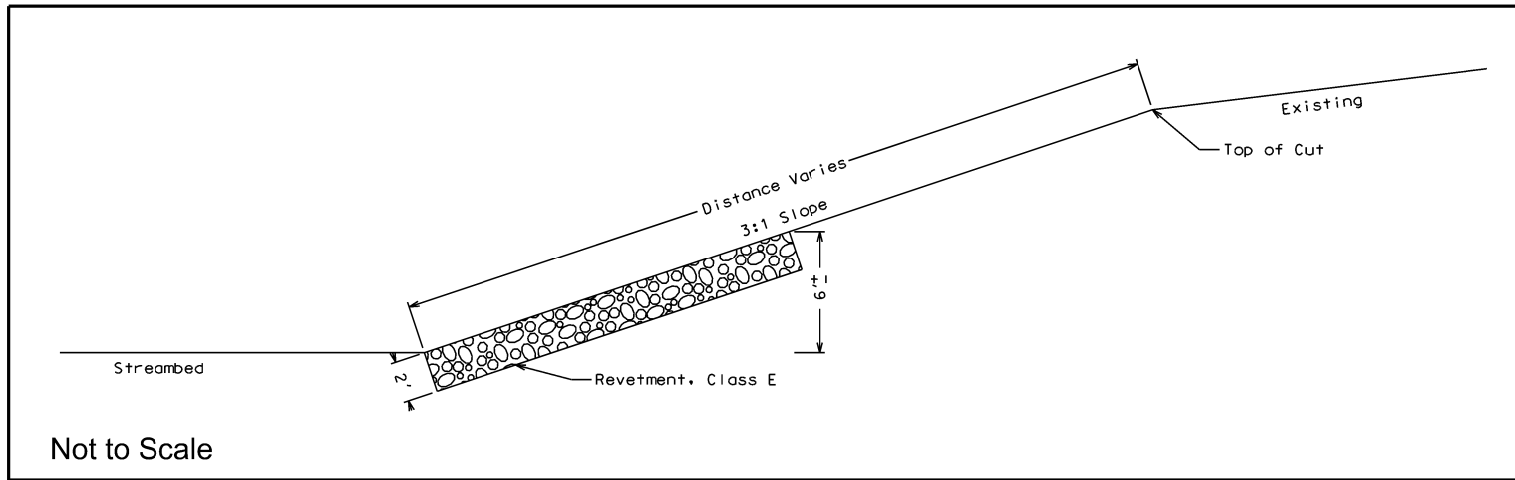
SITE B PLAN

FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
 WINNEBAGO COUNTY

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SHEET No: **D.03**



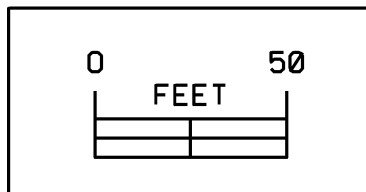
| Streambank Repair | | | |
|-------------------|-------|------------|-----------|
| Length | Slope | Excavation | Revetment |
| 335' | 3:1 | 1,586 CY | 754 Tons |

Notes:

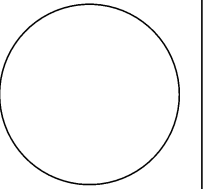
Contractor shall remove trees, logs, stumps and brush as directed by DNR Field Engineer. Material to be disposed of off site.

All excavated material to be disposed of off site.

Quantities include upstream and downstream keys into bank. Dimensions of the keys are 20' x 6'V x 4'W with an estimated 18 CY of excavation and 26 tons of Revetment, Class E for each key. These will be placed as directed by the DNR Field Engineer.



CONSULTANT:



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



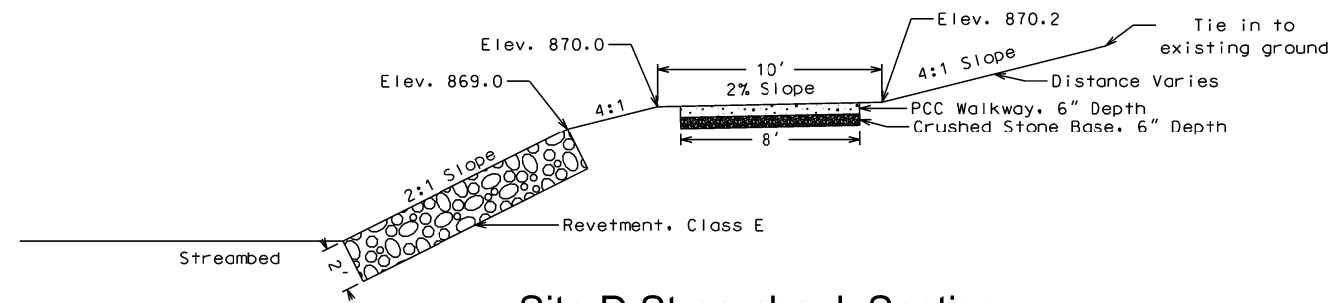
SITE C PLAN

FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
WINNESHIEK COUNTY

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Site D Streambank Section

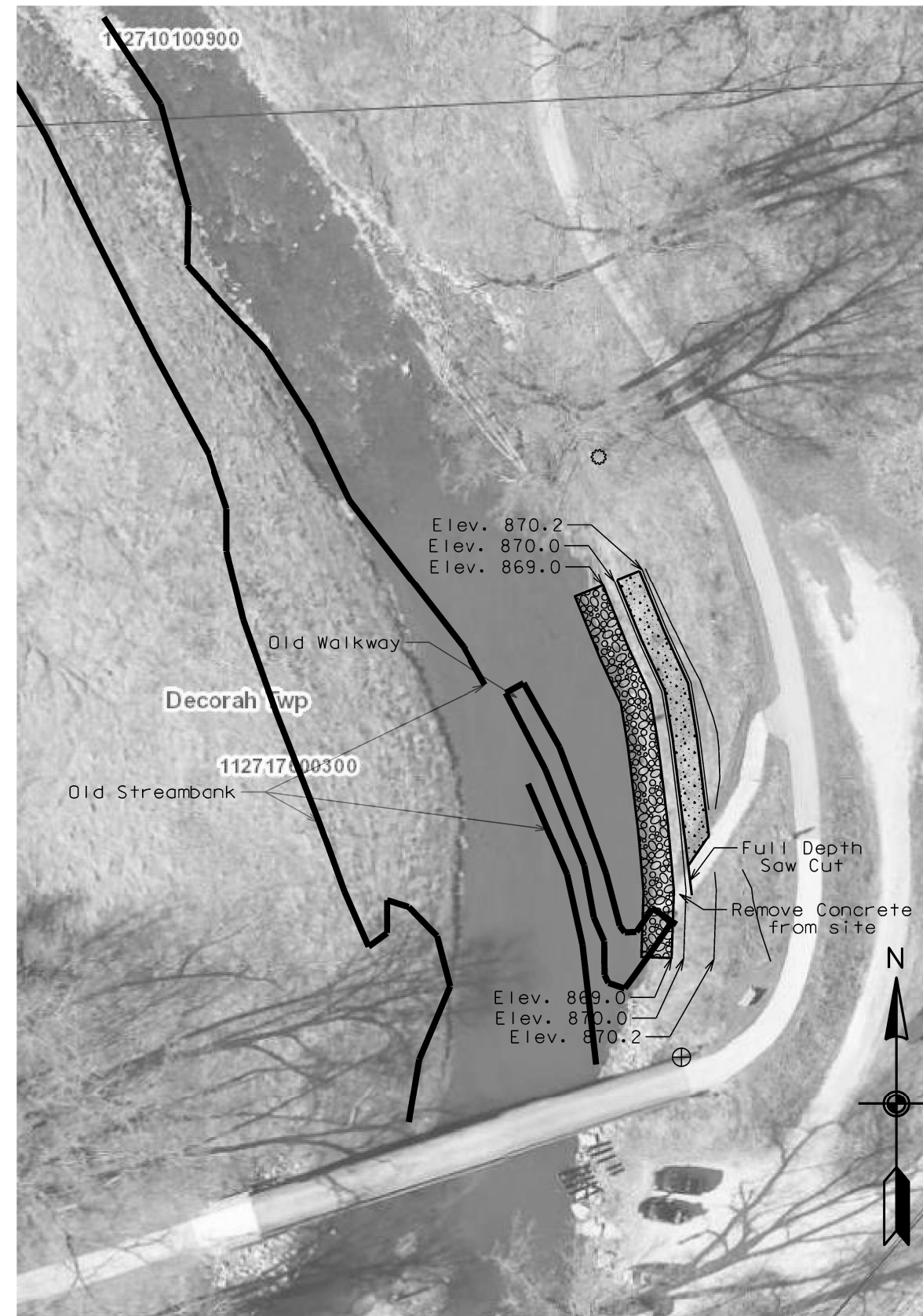
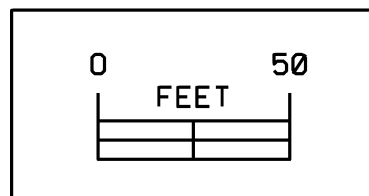
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| Length | Slope | Excavation | Revetment | PCC | Class A |
|--------|-------|------------|-----------|-------|---------|
| 120' | 2:1 | 174 CY | 182 Tons | 85 SY | 27 Tons |

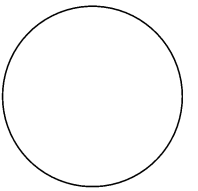
Notes:
 Contractor shall sawcut concrete as directed by DNR Field Engineer. Cut portion of concrete shall be removed from site. All concrete panels found in stream shall be removed from site and is incidental to Revetment, Class E.

Construct PCC walkway as shown. Dimensions are 95'L x 8'W x 6"D.

Quantities include upstream and downstream keys into bank. Dimensions of the keys are 20' x 6'V x 4'W with an estimated 18 CY of excavation and 26 tons of Revetment, Class E for each key. These will be placed as directed by the DNR Field Engineer.



CONSULTANT:



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



SITE D PLAN

FEMA REPAIRS FOR:
DECORAH FISHERIES MANAGEMENT UNIT
 WINNESHIEK COUNTY

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SHEET No: **D.05**