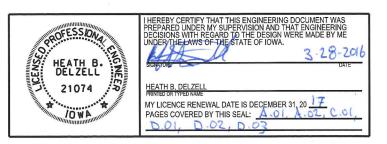
### IOWA DEPARTMENT OF NATURAL RESOURCES

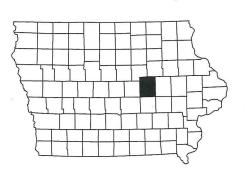
# FOR UNION GROVE STATE PARK HYDRAULIC DREDGING

TAMA COUNTY, IOWA

PROJECT # 14-05-86-03



| DIRECTORY       |                                      |                        |                                      |  |  |  |
|-----------------|--------------------------------------|------------------------|--------------------------------------|--|--|--|
| PROJECT MANAGER |                                      | CONSTRUCTION INSPECTOR |                                      |  |  |  |
| COMPANY         | IOWA DEPARTMENT OF NATURAL RESOURCES | COMPANY                | IOWA DEPARTMENT OF NATURAL RESOURCES |  |  |  |
| ADDRESS         | 502 EAST 9TH STREET                  | ADDRESS                |                                      |  |  |  |
| CITY,STATE,ZIP  | DES MOINES, IA, 50319                | CITY,STATE,ZIP         |                                      |  |  |  |
| CONTACT         | HEATH DELZELL                        | CONTACT                | JASON KRUSE                          |  |  |  |
| TELEPHONE       | 515-979-0104                         | TELEPHONE              | 515-250-3707                         |  |  |  |
| FAX             | 515-281-8685                         | FAX                    |                                      |  |  |  |
| EMAIL           | heath.delzell@dnr.iowa.gov           | EMAIL                  | jason.kruse@dnr.iowa.gov             |  |  |  |



## PROJECT DESCRIPTION This project consists of removing deposited material from Union Grove Lake. An alternate bid includes the removal of native material from the lake bottom.

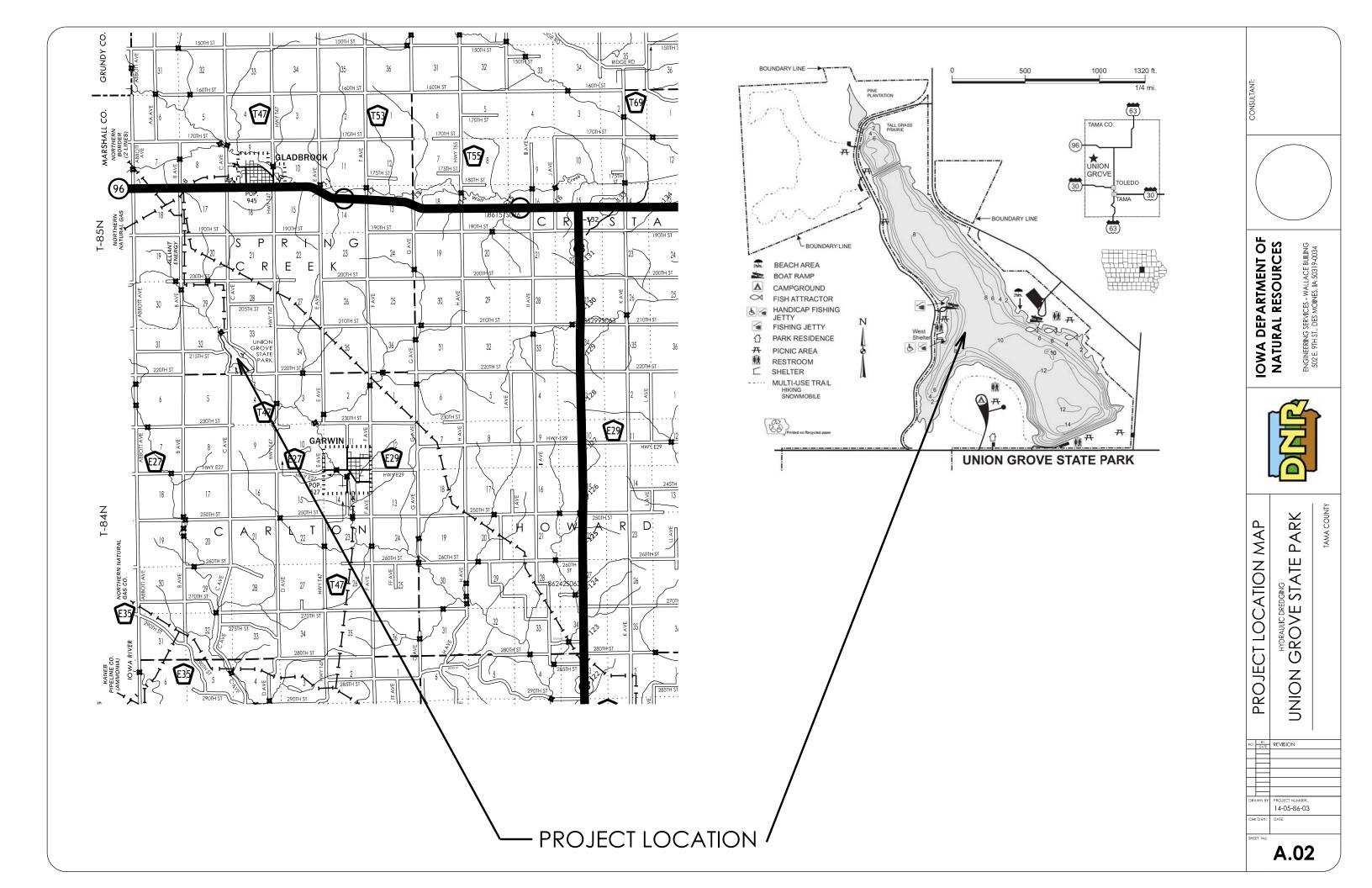


| AUTHORIZATION                                    | N TO BID                    |
|--|-----------------------------|
|  | 3/28/16                     |
| AUTHORIZATION PARKS   WILDLIFE   FISHERIES   LAW | ENFORCEMENT   FORESTRY DATE |
| ENGINEERING BUREAU CHIEF                         | 3/28/16<br>DATE             |

|              | SUEET INDEX                                      |   |
|--------------|--|---|
| A.01         | COVER SHEET                                      |   |
| A.02<br>C.01 | LOCATION MAP  QUANTITIES AND GENERAL INFORMATION |   |
|              |  |   |
| D.01         | SEDIMENT REMOVAL PLAN                            |   |
| D.02         | NATIVE SOIL REMOVAL PLAN                         |   |
| D.03         | CONTAINMENT SITE DETAILS                         |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              | 4  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              | ii ii  |   |
|              |  |   |
| -            |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              | 5  |   |
|              |  |   |
|              |  |   |
| -            |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
| -            |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
| -            |  |   |
| 121          |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
| -            |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  | 1 |
|              |  |   |
|              |  |   |
|              |  |   |
| 1            |  |   |
|              |  | 1 |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |
|              |  |   |

SHEET INDEX

A.01



#### **ESTIMATED PROJECT QUANTITIES**

| ITEM NO. | ITEM                      | UNIT     | TOTAL   |
|----------|---------------------------|----------|---------|
| 1        | Dredging, Hydraulic       | CY       | 249,000 |
| 2        | In-Lake Silt Dam Crossing | Lump Sum | 1       |
| 3        | Control Structure         | Lump Sum | 1       |
| 4        | Mobilization              | Lump Sum | 1       |
|          | ALTERNATE #1              |          |         |
| 5        | Dredging, Hydraulic       | CY       | 18,500  |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |
|          |                           |          |         |

|             | ESTIMATE REFERENCE INFORMATION  |  |  |
|-------------|---|--|--|
| ITEM<br>NO. | DESCRIPTION   |  |  |
| 1           | A. Contractor is to obtain required permission from Tama County for any work in county ROW, such as road crossings, pipe placement, etc.  |  |  |
| 2           | A. This bid item is to pay for costs associated with moving the dredge from the main lake to the area above the in-lake silt dam. It is the intention of this project to have the contractor breach the in-lake silt dam to allow for dredge passage. The breach must be repaired with Class E Revetment The contractor is not required to use this method. |  |  |
| 3           | A. Contractor to provide spoil site outlet control structure to allow for the manipulation of the spoil site so that water quality standards are met. Contractor is to submit outlet control structure to IDNR Floodplains Section for review and approval. Design and permitting costs are to be considered incidental to the Control Structure bid item.  |  |  |
|             |   |  |  |
|             |   |  |  |

#### **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.

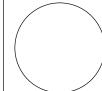
It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. 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.



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



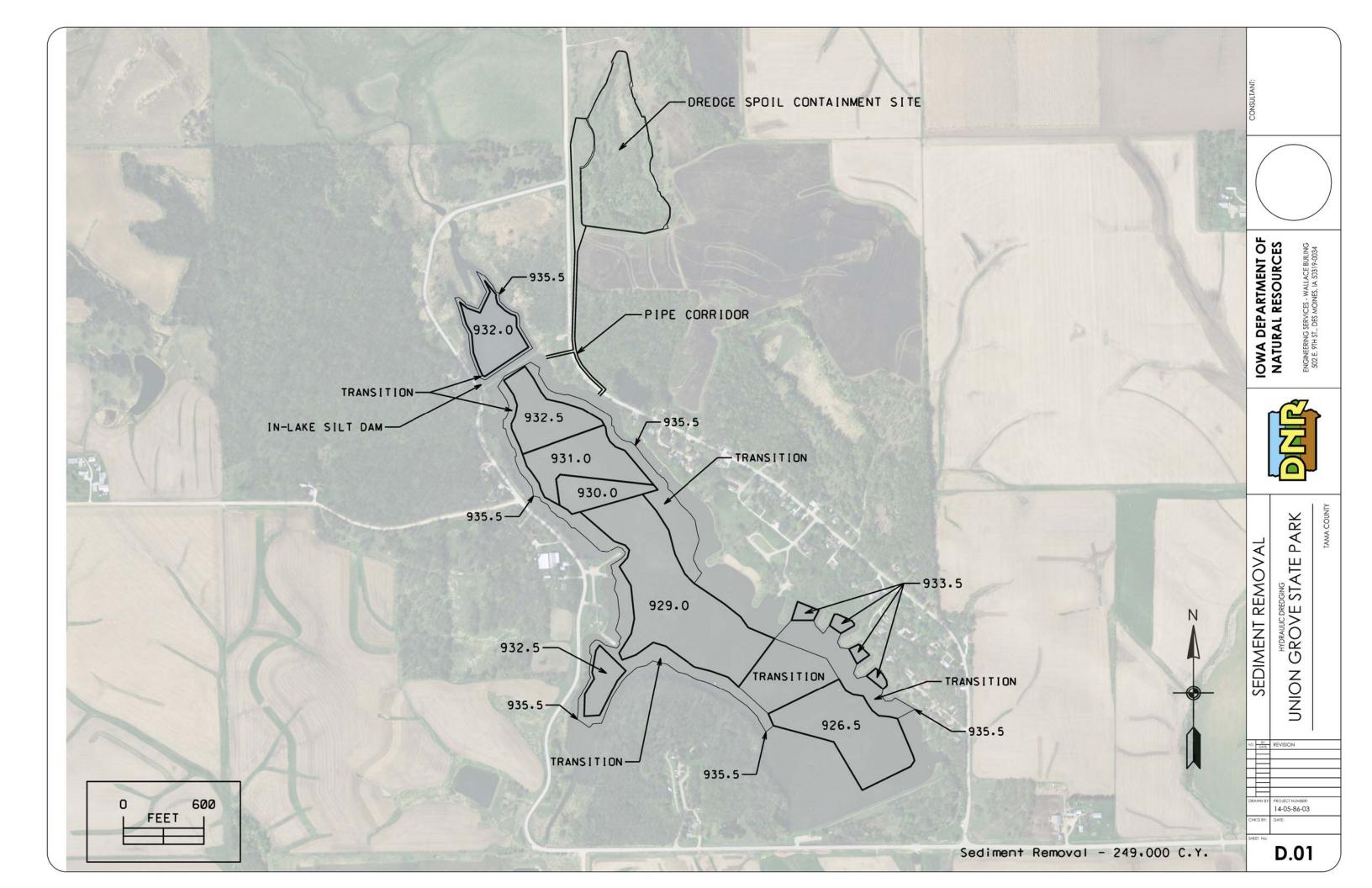
PARK

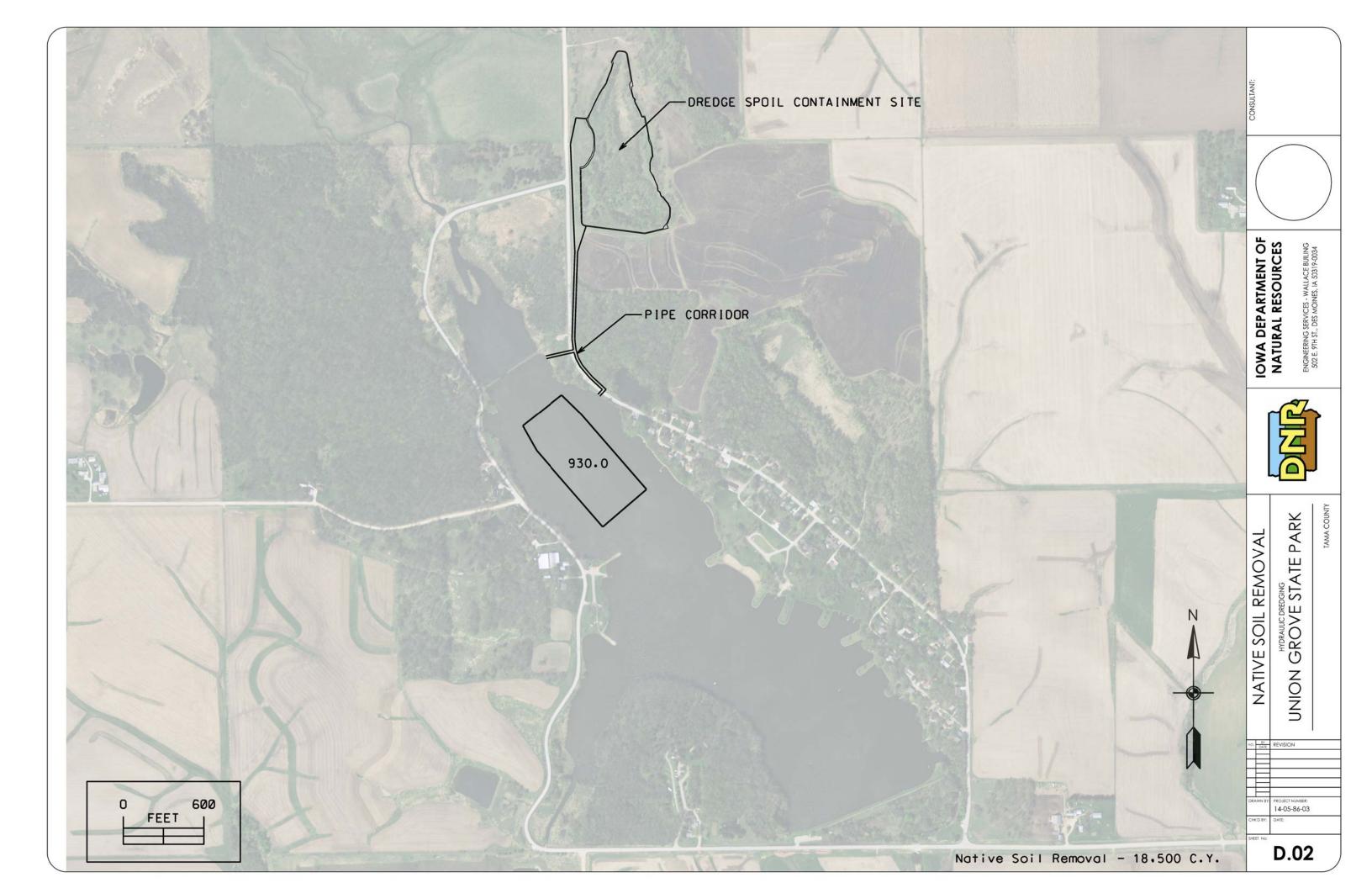
Quantities and General Information DREDGING

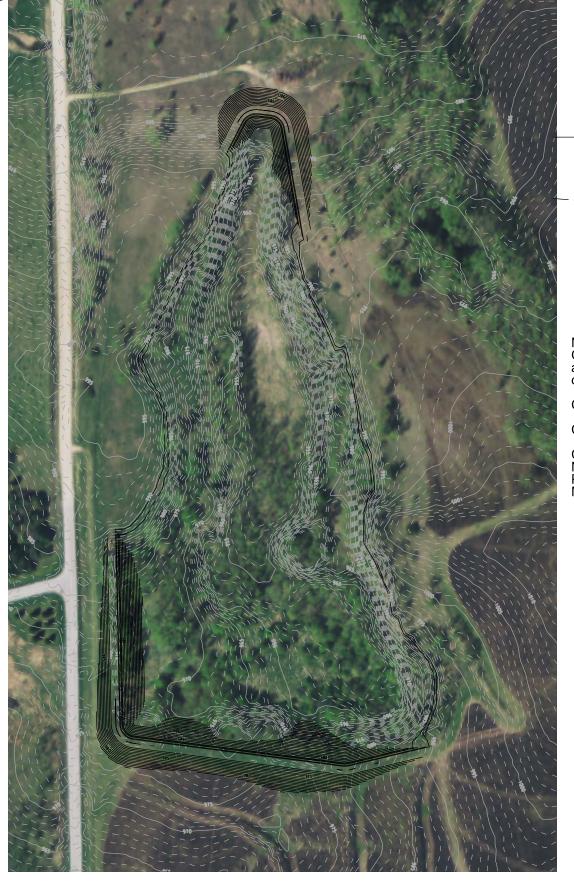
PE STATE

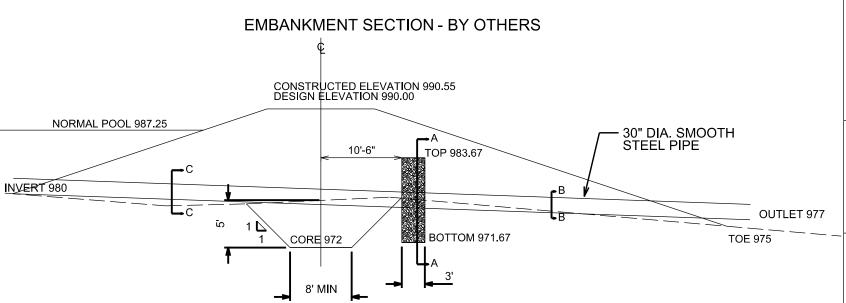
NO. BY REVISION 14-05-86-03

C.01









#### NOTES:

Contractor to provide spoil site outlet control structure to allow for the manipulation of the spoil site so that water quality standards are met. Contractor is to submit outlet control structure to IDNR Floodplains Section for review and approval. Design and permitting costs are to be considered incidental to the Control Structure bid item.

Contractor to furnish routing plan for dredge spoil pipes for review by the engineer prior to dredge operations.

Contractor is to obtain required permission from Tama County for any work in county ROW, such as road crossings, pipe placement, etc.

Containment Design Data: Normal Pool Elevation - 987.25 Permanent Storage - Approx. 398,500 C.Y. Minimum Weir Length - 132 inches



IOWA DEPARTMENT OF NATURAL RESOURCES

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



CONTAINMENT SITE DETAILS PARK STATE GROVE:

NOINO NO. BY REVISION

14-05-86-03

**D.03** 

