



**DUCKS UNLIMITED, Inc.**

North American Habitat Field Office

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*Incorrect  
broadpounds*

December 5, 1985

Mr. Stephen J. Martin  
Wildlife Biologist  
Medicine Lake NWR  
HC 51, Box 2  
Medicine Lake, MT 59247-9701

Dear Steve:

Enclosed is a signed copy of the Lake Creek Flats Management Plan for your file. It contains all the pertinent information we require. Also enclosed are the project plans and specifications. If you have any questions or wish to make changes let us know. The project should be ready to go out for bid this month so please contact me as soon as all the permits and EA have been approved.

Sincerely,

Robert D. Hoffman  
Chief Biologist

Enclosure

RDH/dlh



SPECIFICATION FOR BLASTING POTHOLES1. GENERAL CONDITIONS

The General Conditions and Special Provisions attached hereto shall apply to and be part of this specification.

2. DESCRIPTION

This specification shall cover the supply and installation of all blasting apparatus as well as blasting the specified number of potholes as described herein.

3. METHOD

The desired results may be accomplished by blasting using various methods. The method chosen by the Contractor shall be approved by the Engineer prior to accepting the bid. A detailed outline of the proposed method including but not limited to manufactures recommendations, planned safety precautions, test results of the proposed method, a resume of the proposed blasting contractor including past experience and references. All state, federal, and specific product blasting procedures must be followed.

4. APPLICABLE LAW AND LICENSE

The Contractor responsible for the blasting shall have all applicable state and or federal licenses. A copy of which shall be supplied to the Engineer prior to accepting the bid.

5. BLASTING RESULTS

The potholes produced by blasting shall be shaped as an elliptical sphere with a width of no less than 30', and length no less than 50', and a minimum depth of 6'. The blast shall be planned in a manner which will cause the blasted material to be thrown outward spread as evenly as practical. Potholes shall be placed in a manner which will prevent blasted material from falling on existing potholes or on areas where potholes are planned.



6. MEASUREMENT AND PAYMENT

Full payment per unit price will be made on potholes which meet or exceed surface dimensions of 30' x 50'. Partial payment will be made on potholes which do not meet required surface dimensions. No payment shall be made on potholes that do not meet or exceed the minimum required depth.

Payment shall constitute full compensation for all mobilization, materials, labor, clean up, and incidental work associated with the blasting.

SPECIFICATION FOR BROOD POND COMPLEX (Winter)1. GENERAL CONDITIONS

The General Conditions and Special Provisions hereto attached shall apply to and be part of this specification.

2. DESCRIPTION

This work shall include the supply of all labor, material, and equipment required to complete the construction of the Brood Pond Complex as shown on the plans or as staked in the field by the Engineer, and in accordance with these specifications.

The work shall include:

- Removing all ice from the limits of the complex. The limits of the complex are defined on the plans.
- Excavating to the lines and grades shown on the plans or staked in the field.
- Place spoil material into islands shown on the plans or as approved by the Engineer.
- Level and trim spoil islands.

3. CONSTRUCTION METHODS3.1 BORROW EXCAVATION

Excavation procedure shall be subject to the approval of the Engineer. Excavation shall mean the removal and disposal of all material encountered within the limits of excavation as shown on the drawings or as set out by the Engineer in the field.

Excavation shall be performed in as nearly a continuous fashion as possible, with due regard to completion of works.

The Contractor shall not overexcavate by digging below specified lines and grades. If, in the opinion of the Engineer, the Contractor

overexcavated an area, he shall replace at his expense the overexcavated material with suitable site material and compact that material to equal the insitu-material surrounding, or to the satisfaction of the Engineer.

After excavation to specified lines and grades, the Contractor may be required to excavate any additional material judged unsuitable by the Engineer. He shall remove such unsuitable material to lines and grades as directed by the Engineer. Unsuitable material shall be replaced by suitable site material and compacted to a density equal to the insitu-material surrounding or to the satisfaction of the Engineer. Removal and replacement of such material shall be considered as extra work.

### 3.2 EMBANKMENT

Borrow material shall be deposited in a continuous fashion. Materials shall be shaped to the lines, grades, and levels shown on the plans. If the excavation produces more material than can be placed in the islands as specified, additional spoil islands may be created outside the complex limits after approval from the Engineer.

## 4. METHOD OF MEASURE

The Brood Pond Complex shall be measured as on a per unit basis. The volume of excavation per complex shall be shown on the plans. The uncompacted volume of the islands within the complex shall be shown on the plans. Volumes have been calculated by the average end area method.

## 5. BASIS OF PAYMENT

The construction of the Brood Pond Complex will be paid for at the contract unit price per unit for "BROOD POND COMPLEX" to be measured as specified herein, which price shall be payment in full for supplying all labor and equipment and for performing all operations herein described and all work incidental to the work included in this specification.

SPECIFICATION FOR DUGOUT CONSTRUCTION1. GENERAL CONDITIONS

The General Conditions and Special Provisions hereto attached shall apply and be part of this specification.

2. DESCRIPTION

The work of this section shall include the supply of all labor, materials and equipment required to complete the construction of dugouts called for on the drawings/and or specified herein, including:

- Excavation of dugouts.
- Disposal of surplus and unsuitable material.
- Levelling of excavated material.

3. CONSTRUCTION METHODS3.1 CLEARING AND GRUBBING

If specified in the Special Provisions, the Contractor shall clear the site within construction limits indicated on the plans and as staked in the field.

- Construction limits for dugouts shall not extend more than 35' beyond the top of the backslope of the dugout.

Material from clearing and grubbing operations shall be considered as unsuitable site material and disposed of as indicated in Section 3.2 of this specification.

Clearing and grubbing shall be in accordance with "SPECIFICATIONS FOR CLEARING AND GRUBBING".

3.2 DISPOSAL OF SURPLUS AND UNSUITABLE SITE MATERIAL

The Contractor shall dispose of all excavated material as follows:

Dugouts - Excavated material to be placed along two sides allowing a minimum ten' berm. Each pile



to be top levelled using excavating equipment so as to give consistent appearance.

### 3.3 EXCAVATION

Excavation procedure shall be subject to the approval of the Engineer. Excavation shall mean the removal and disposal of all material encountered within the limits of excavation as shown on the drawings or as set out by the Engineer in the field.

Excavation shall be performed in as nearly a continuous fashion as possible, with due regard to completion of works.

The Contractor shall not overexcavate by digging below specified lines and grades. If, in the opinion of the Engineer, the Contractor overexcavated an area, he shall replace at his expense the overexcavated material with suitable site material and compact that material to equal the insitu-material surrounding, or to the satisfaction of the Engineer.

After excavation to specified lines and grades, the Contractor may be required to excavate any additional material judged unsuitable by the Engineer. He shall remove such unsuitable material to lines and grades as directed by the Engineer. Unsuitable material shall be replaced by suitable site material and compacted to a density equal to the insitu-material surrounding or to the satisfaction of the Engineer. Removal and replacement of such material shall be considered as extra work.

### 4. METHOD OF MEASURE

All dugout construction shall be measured on a unit basis. An Engineers estimate of volume will be shown on the plans. Volumes have been estimated by average end area method.

Clearing and grubbing of the dugout area shall be considered incidental to dugout construction and shall not be measured.

5. BASIS OF PAYMENT

Dugout Construction shall be paid for at the contract unit price per dugout.

Each dugout to be measured as specified herein, which price shall be payment in full for supplying all materials and for performing all operations herein described and all other items incidental to the work included in this specification.