

SUPPLEMENTAL CONSTRUCTION SPECIFICATIONS

SUPPLEMENTAL CONSTRUCTION SPECIFICATIONS FEES-IN-LAW AML REPAIR PROJECT

EXPLANATION

- A. The purpose of this Section of the Specifications is to provide supplemental information which is required to complete the Standard Construction Specifications and to set forth supplementary requirements, modifications and/or deletions which are required to make the whole of the Construction Specifications project specific.
- B. References to Section, Paragraph and Sub-paragraph numbers used in these Supplemental Construction Specifications are intended to coincide with reference numbers for corresponding Sections, Paragraphs and Sub-paragraphs in the Standard Construction Specifications.
- C. Where there is any variance between the Standard Construction Specifications and these Supplemental Construction Specifications, the Supplemental Construction Specifications shall take precedence.
- D. Where any section of the Standard Construction Specifications is modified or any Paragraph, Sub-paragraph or Clause thereof is changed or deleted by these Supplemental Construction Specifications, the unaltered provisions of that Section, Paragraph, Sub-paragraph or Clause in the Standard Construction Specifications shall remain in effect. Unless these Supplemental Construction Specifications make specific reference to the modification or deletion of a Paragraph, Sub-paragraph or Clause in the Standard Construction Specifications, no changes are intended and paragraphs contained in these Supplemental Construction Specifications are intended only to supplement, amplify, or clarify said Standard Construction Specifications.
- E. The following set of standard specifications (updated July and August 2025), is used for this project:
- 02010 FIELD ENGINEERING
 - 02100 MOBILIZATION, SITE CLEARING AND PREPARATION
 - 02120 SEDIMENT AND EROSION CONTROL
 - 02200 EARTHWORK, ROUGH GRADING
 - 02400 SUBGRADE PREPARATION
 - 02700 PERMANENT SEEDING
- F. **Engineer:** (per General Conditions 1-04)
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SECTION 02010 – FIELD ENGINEERING

2.6 STAKE OUTS

C. (New Paragraph) Staking the project boundary and locations of the new buried grade control structures will be performed by Shive-Hattery prior to site disturbing construction activities at no cost to the contractor. All expenses related to these staking efforts will be paid for by the division. It is the contractor's responsibility to coordinate with the engineer to complete staking prior to grading and subgrade preparation efforts. Any adjustments to the extents of the project should be communicated to and approved by the engineer and division before proceeding.

3.2 DIMENSIONS AND ELEVATIONS

- B. (New Paragraph) Horizontal measurements are in U.S. Survey feet and are based upon the NAD 83 Iowa State Plane Coordinate system, South Zone.
- C. (New Paragraph) Elevation measurements are based upon the NAVD 1988 and are in U.S. Survey feet.
- D. (New paragraph) Existing topography shown on this drawing was developed from an as-built drawing of the completed reclamation construction project in 2021.

SECTION 02100 - MOBILIZATION, SITE CLEARING & PREPARATION

3.4 OFFICE AND LAY-DOWN AREA

B. Contractor's Field Office

1. **(Revise)** Contractor's office is not required for this project. The Contractor shall make certain that his representative on site has an operating cellular phone that can be used for communication with Engineer and Division. Provide adequate space for project progress meetings and provide sanitary facilities (toilet).

SECTION 02120 – SEDIMENT & EROSION CONTROL

2.1 (New Section) STONE FILTER

D. (New Paragraph) Material for stone filter shall meet the requirements of IDOT Section 4122.02-A for Macadam Crushed Stone. Gradation shall be Gradation No. 13 of the Aggregate Gradation Table in Article 4109.02.

3.3 O. (New Section) RIPRAP DITCHES AND OTHER RIPRAP WORK

1. **(New Paragraph)** Riprap or erosion stone shall be placed over a 6" thick filter stone, where required, in areas shown on the Plans and in a manner which shall produce a reasonably well-graded mass of stone with the minimum practical percentage of voids. All riprap material shall be placed and distributed such that there shall be no objectionable accumulations of either the larger or smaller sizes of stone, and such that the entire mass of stone shall be in accordance with the lines, grades and thickness as shown on the Plans.
2. **(New Paragraph)** Contractor shall place the stone filter and riprap so as not to disturb the stone filter. Riprap or stone shall not be dropped more than two (2) feet when being placed on filter stone bedding. Contractor shall shape rock according to the detail and grading plans. Contractor shall mechanically tamp riprap with excavator bucket or track in with a dozer to lock stone together and reduce roughness of surface.

P. (New Section) BURIED GRADE CONTROL

1. (New Paragraph) Riprap shall be placed over a 6” thick filter stone 10-12” below the proposed grade in the terrace flowline in the locations as shown on the Plans. Riprap shall be covered with 10”-12” of soil and have the appropriate subgrade amendments applied to the soil according to soil tests. Caution should be taken during subgrade and seedbed preparation to not disturb the riprap below the surface while providing a suitable finished surface for seeding. These areas should be permanently seeded, and no rock shall be visible above ground at the completion of seeding.

SECTION 02200 – EARTHWORK, ROUGH GRADING

3.13 MAINTENANCE

G. (New Paragraph) All maintenance, as described in this section, shall be considered incidental to the project and shall be completed at no additional cost to the Division.

4.1 UNIT PRICES

B.

3.0 (New Paragraph) Earthwork, Grading: Payment for the cost associated with any excavation, fill, and other grading activities to restore degraded terrace flowlines and rock riffles across the project site in areas as shown on the Plans.

Contractor shall be paid on a lump sum basis for all the necessary grading identified in the Plans. The lump sum payment shall constitute full payment for all excavation, fill placement, dewatering, boulder relocation and burial, compaction, grading, and all incidental work pertaining thereto. No separate payment item is included for unauthorized excavation.

4.1 SUMMARY – UNITS OF MEASUREMENT:

(Revise)

Units of measurement for bid items applicable to work covered by this SECTION are as follows:

<u>Description</u>	<u>Unit</u>
Earthwork, Grading	LS

SECTION 02400 – SUBGRADE PREPARATION

2.1 AGRICULTURAL LIME

C. (Revise) Lime sludge salvaged from water treatment plants or other industrial operations **cannot be used** for agricultural lime.

2.2 MULCH – NON-WETLAND AREAS

E. (Revise) Alternatives to conventional mulch materials like wood chips or composted organic materials **cannot be used** on this site.

1. (Remove section)
2. (Remove section)

3.6 LIME-MULCH APPLICATION

A. APPLICATION RATES

4. (New Paragraph) For bidding purposes, utilize the application rates as shown on Sheet 6 of the Plans of “Agricultural Lime” for subgrade preparation.

SECTION 02700 – PERMANENT SEEDING

2.4 SEED

D. (New Paragraph) The following seed mixes shall be used:

1. Upland Seed Mix

Common Name	Scientific Name	Seeding Rate (Lb. PLS/ac)
Partridge pea	<i>Cassia fasciculata</i>	4
Alfalfa	<i>Medicago sativa L.</i>	10
Alsike clover	<i>Trifolium hybridum L.</i>	4
Red clover	<i>Trifolium pratense L.</i>	3
Orchardgrass	<i>Dactylis glomerata</i>	4
Perennial ryegrass	<i>Lolium perenne L.</i>	4
Redtop	<i>Agrostis gigantea</i>	3
Timothy	<i>Phleum pratense L.</i>	6
Virginia wildrye	<i>Elymus virginicus</i>	6
Canada wildrye	<i>Elymus canadensis L.</i>	6
Smooth Brome	<i>Bromus inermis</i>	4
Total		54
Spring Cover (April 1 – May 30)		
Oats	<i>Avena sativa L.</i>	32
Dormant Cover (Soil Temperature <50° F – Freeze Up)		
Winter wheat	<i>Triticum aestivum L.</i>	45

3.5 SEEDING

D. SEED PLACEMENT

1. (REVISE) Seed all areas to be seeded with the appropriate seed mix as shown on the Plans and in the Supplemental Specifications. Seed species shall be applied at the rates provided in the Supplemental Specifications. Sow seed along the contour using a grassland or rangeland drill. The drill shall be equipped with double coulter furrow openers. The drill shall be subject to acceptance by Engineer. Drill seeding shall be accomplished with rows set no more than eight (8) inches apart. Set drill for half of the specified seeding rate, and drill entire area to be seeded two (2) times. Overlap each successive seeding pass at least one (1) row width and avoid drilling in previously created furrows to ensure complete coverage. Upon a show of green, non-acidic bare areas will be reseeded at no additional cost to Division.

3.4 LIMING AND FERTILIZING

E. (New Paragraph) For bidding purposes, assume the application rate of “Agricultural Lime” for seeding is five (5) tons ECCE/acre.

F. (New Paragraph) For bidding purposes, assume the application rate of Nitrogen is fifty (50) pounds per acre, Phosphorus is one hundred (100) pounds per acre, and Potassium is one hundred sixty (160) pounds per acre.

END OF SUPPLEMENTAL SPECIFICATION