

SECTION 02936

SEEDING, MULCHING,
FABRIC AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Examination
- B. Seeding
- C. Placing Topsoil
- D. Seed Protection and Erosion Protection
- E. Maintenance

1.2 REFERENCES

- A. PennDOT Publication 408, Specifications

1.3 DEFINITIONS

- A. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.4 QUALITY ASSURANCE

- A. Provide seed mixture in containers showing percentage of seed mix, year of production, net weight, date of packaging, and location of packaging.

1.5 REGULATORY REQUIREMENTS

- A. Comply with regulatory agencies for herbicide composition.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable. Store and handle grass seed in accordance with the Manufacturer's instructions.

1.7 SUBMITTALS

- A. Provide catalog cuts and manufacturer's instructions for erosion control matting.

1.8 MAINTENANCE SERVICE

- A. The CONTRACTOR shall maintain seeded areas immediately after placement until grass is well established and exhibits a vigorous growing condition.
- B. The CONTRACTOR shall replace topsoil at all eroded areas and/or washouts and shall reseed with the same seed mix, or shall place sod of the same seed mix.

- C. The CONTRACTOR shall replace any blanket or liner which failed and reseed as required.
- D. The CONTRACTOR shall be responsible for replacing all failures which occur within one year of final completion.

PART 2 PRODUCTS

2.1 SEED

- A. All seed used shall be labeled in accordance with the U.S. Department of Agricultural Rules and Regulations under the Federal Seed Act in effect at the time of purchase, which shall be later than the date of this Contract. Seed which has become wet, moldy, or otherwise damaged in transit or in storage will not be acceptable. Seed shall not be more than two (2) years old and shall be retested for germination rate no more than ninety (90) days prior to use.
- B. Inert matter shall not exceed 15%. Blue Tag Certified Seed shall be supplied wherever possible.

2.2 SEED MIXTURE

	<u>% by Weight</u>	<u>Min. % Purity</u>	<u>Min. % Germination</u>	<u>Max. % Weed Seed</u>
A. Lawn Seed (PennDOT Formula B)				
Kentucky Bluegrass (4 or more varieties - none greater than 25% of total Bluegrass component)	50	98	80	0.20
Pennfine Perennial Ryegrass	20	98	90	0.15
Creeping Red Fescue	30	98	85	0.15
B. Temporary Seeding (PennDOT Formula E)				
Annual Ryegrass	100	98	90	0.15
C. Temporary Seeding				
Winter Rye	100	95	80	0.15

2.3 ACCESSORIES

- A. Mulching Material: Oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are not acceptable.
- B. Water: Clean, fresh and free of substances or matter which could inhibit vigorous growth of grass.
- C. Herbicide: In accordance with Publication 408, Section 804.2(d).

- D. Erosion Control Matting: Install in accordance with the manufacturer's specifications, if needed to remedy erosive conditions.
- E. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 6.5 and maximum pH value of 7.0.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that prepared soil base is ready to receive the work of this Section.

3.2 SEEDING

- A. Planting Season:

Formula B	March 1 to June 1 and August 1 to October 15
Formula E	March 1 to August 15
Winter Rye	August 16 to October 15

- B. Do not sow immediately following rain, when ground is too dry, or during windy periods.
- C. Immediately following seeding and compacting, apply mulch at a rate of 3 tons per acre. Maintain clear of shrubs and trees.
- D. Apply water with a fine spray immediately after each area has been mulched. Saturate to four inches of soil.

3.3 PLACING TOPSOIL

- A. Spread topsoil as needed to supplement existing soils. Rake smooth.
- B. Place topsoil during dry weather and on dry unfrozen subgrade.
- C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
- D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.

3.4 SEED PROTECTION AND EROSION PROTECTION

- A. Mulch shall be kept moist and anchored either mechanically, or with cutback asphalt or polymer tackifier, as required to prevent it from blowing away.
- B. Cover seeded areas with erosion control matting if needed to avoid or remedy erosion. Install in accordance with manufacturer's specifications and instructions.
- C. Lightly dress slopes with topsoil to ensure close contact between fabric and soil.
- D. Apply herbicides in accordance with Publication 408, Section 804.3(h), if necessary.

3.5 MAINTENANCE

- A. Roll and/or rake surface to remove minor depressions or irregularities.

- B. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions. Remedy damage resulting from improper use of herbicides.
- C. Immediately reseed and mulch areas which show bare spots. If areas continue to be bare, then sod will be required.
- D. Immediately replace matting or liner which failed, and reseed disturbed areas. If problems continue, sod may be required.
- E. Immediately replace topsoil at all eroded areas and/or washouts and reseed with the same mix, or place sod of the same seed mix, if the erosion continues.

END OF SECTION