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ESTABLISHING TURF AND CONTROLLING EROSION (OAKDALE 2575)

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Establishment of herbaceous ground cover on designated areas.
- B. Related Sections:
 - 1. Section 2105 – Excavation and Embankment
 - 2. Section 2573 – Temporary Erosion Control
- C. Method of Measurement:
 - 1. Fertilizer:
 - a. Measure by weight in pounds of each mixture applied.
 - 2. Seeding with Erosion Control Blanket or Hydromulch:
 - a. Measure by the area seeded in square yards. Includes soil preparation, seed, seeding, hydro-mulching, erosion control blanket, and reseeding and hydro-mulching/placing erosion control blanket over all unacceptable areas.
 - 3. Water:
 - a. Measure water for turf establishment by volume in 1,000 (M) gallon increments.
Water will be provided by the City.
 - 4. Sodding:
 - a. Measure by area sodded in square yards.
- D. Basis of Payment:
 - 1. Payment for acceptable quantities of turf establishment shall be at the Contract Unit Price as listed on the Bid Form. All associated Work items shall be considered incidental.

1.02 REFERENCES

- A. MnDOT:
 - 1. 2575 – Turf Establishment
 - 2. 3881 – Commercial Fertilizer

1.03 SUBMITTALS

- A. Submit certified test report for each seed mixture.
- B. Submit certification from the grower stating the grass varieties contained in the sod.

1.04 ACCEPTANCE OF WORK

- A. Turf establishment will be accepted on a total project basis.
- B. All erosion control items must also be in place and properly maintained prior to acceptance.
- C. Once accepted, Contractor is relieved of any further maintenance or repair.

1.05 DELIVERY, STORAGE & HANDLING

- A. Protect seed from moisture prior to use.
- B. Deliver sod to Site within 24 hours after cutting.
- C. Place sod on the same day it is delivered.

1.06 SCHEDULE OF WORK

- A. Coordinate turf establishment to minimize lag time after topsoil placement.
- B. Plant seed between April 1 and June 1 and July 20 and November 1.

1.07 MAINTENANCE

- A. Maintain and repair all areas a minimum of 30 days and until acceptance by Owner.
- B. Apply water to saturate soil to 1-foot depth in sodded areas.
- C. Apply water to maintain moist soil in sodded and seeded areas. Use proper application and nozzles to avoid washing out and eroding seeded area.
- D. Rewater if soaking rain does not occur after 3 days.
- E. Maintain adequate soil moisture in the upper 1-foot for 3 weeks after sodding or seeding.
- F. Allow soil moisture to drop after 3 weeks.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Seed: MnDOT 3876.
 - 1. Type 25-131-Low Maintenance Turf.
 - 2. Native Seed: Mix of native grasses and forbs as shown on the plans (Infiltration Basin).
- B. Sod: MnDOT 3878, Type Mineral.
- C. Fertilizer:
 - 1. MnDOT 3881
 - 2. Slow-release Nitrogen type.

3. NPK: 20-0-10 (phosphorus free).
- D. Mulch: MnDOT 3882.
 1. Hydro-mulch with tackifier as approved by the Engineer.
- E. Erosion Control Blanket: MnDOT 3885.
 1. Category 3N: Straw or wood fiber, netting two sides, natural netting.

PART 3 EXECUTION

3.01 SOIL PREPARATIONS

- A. Remove all undesirable weeds as directed.
- B. Loose topsoil on all areas prior to seeding or sodding.
- C. Cultivate to a depth of 3 inches using discs or other suitable equipment.
- D. Remove all stones, roots, and other non-topsoil materials.
- E. Operate equipment at right angles to direction of drainage.
- F. Fill all washouts prior to cultivation.
- G. Hand-finish all lawn and boulevard areas to provide a smooth, moist, even textured foundation of uniform density.

3.02 CONSTRUCTION REQUIREMENTS

- A. Applying Fertilizers and Conditioners:
 1. Apply fertilizer uniformly over the designated area using mechanical spreading devices.
 2. Apply fertilizer at a rate of 150 pounds per acre.
 3. Apply fertilizer prior to placing sod.
 4. Apply fertilizer no more than 48 hours prior to seeding.
 5. Apply fertilizer with drop spreader.
- B. Sowing Seed:
 1. Apply seed mixture over designated areas at a rate of 200 pounds per acre.
 2. Apply seed uniformly by mechanical or hydrospraying method.
 3. Firm all seeded areas with a drag or cultipacker immediately after seeding and prior to mulching.
- C. Hydro-Mulching:
 1. Place over seeded area with approved equipment
 2. Apply uniformly in accordance with manufacturer's recommendations.
- D. Placing Sod:
 1. Prepare sodding areas prior to delivery of sod.
 2. Place sod strips at right angles to direction of drainage.
 3. Place sod strips with staggered end joints.
 4. Water and roll sod immediately after placement.

5. Complete repair of sodded areas as directed within 5 days after placement.
6. Stake sod on slopes to prevent displacement.

E. Placing Erosion Control Blankets:

1. Place blankets within 24 hours after seeding.
2. Overlap strip ends 10 inch minimum with upgrade strip on top.
3. Bury upgrade end of each strip minimum of 6 inches into soil.
4. Secure with wire staples placed at maximum 3-foot spacing.

3.03 CLEANUP AND PROTECTION

- A. Sweep up spilled fertilizer.
- B. Do not apply water to spilled fertilizer.

END OF SECTION