

Sample Plan

TURF ESTABLISHMENT PLAN ----- NARRATIVE

References:

- Road Design Manual: Chapters 8 - 5
- Standard Plates: 9101
- Design Scene: Chapter 13 - Turf Establishment & Erosion Control

- Spec. Book: 2575
- Miscellaneous:
 - Erosion and Sediment Control Certification Program Manual
www.dot.state.mn.us/environment/
 - MPCA Best Management Practices Manual
(www.pca.state.mn.us/water/water-publications/sw-bmpmanual)
 - MnDOT District Turf Establishment Recommendations
at: www.dot.state.mn.us/environment/
 - Office of Environmental Services Website
www.dot.state.mn.us/environment/
 - http://metro/design/technicalguidance.html Erosion Control Blankets Information
re: The use in areas to be mowed.

General Information:

The Erosion and Sediment Control Certification Program Manual and MnDOT District Seeding Recommendations should be used as a guide in developing a Turf Establishment Plan.

General Vegetation Establishment recommendations will be provided in the MnDOT District Vegetation Recommendations. The Turf Establishment Unit in the Office of Environmental Services will review the project plan and will provide additional recommendations (including wild flowers, mitigation areas, reduced grass heights for sight distance problems, slope stabilization, etc.).

Provide a note in the Plan as to the method used for computing seeding and disk anchoring areas. (Indicate application rates on the tabulation sheet if different from rates in Spec. Book or Special Provisions.)

When project has small quantities of turf establishment items (2.5 acres or less), consider using Item 2575.505, turf establishment, lump sum and add a subnote for the various items of seed, mulch, fertilizer, etc. that make up the lump sum, including application rates if different from the Spec book. Quantities are to be provided in the EstimateRestricted Folder in ProjectWise.

Show seeding and disk anchoring items as Plan Quantity, only when they are being paid for individually rather than Lump Sum.

Sod and seeding mixture designs should be shown by a patterning format.

Plan sheet layout should coincide with the sheet layouts for other parts of the Plan.

Try to keep these sheets clear of other information (unnecessary pluses, guardrail, topography, etc.).

General Information cont.:

The pay item Seeding pays for placement and the Seed Mixture pay items pay for the seed type.

The quantity of seed mixture and the seeding application area are turf establishment pay items.

Consider subsoiling (see Spec. 2105) and either Seed Bed Preparation for 1:3 or flatter or Soil Trenching where steeper than 1:3 in areas where soil has been substantially compacted (i.e. under existing roadbeds, haul roads, bypasses, stockpiles, equipment storage areas).

Consider temporary erosion items like rapid stabilization, inlet protection, dewatering, chemical storage, chemical spill test, chemical washing and picking up sweepings.

It is recommended that construction limits be shown on the Turf Establishment Plans, unless the plan sheets would become too cluttered.

As a general rule, sod is used only for high runoff areas, commercial areas, residential areas, and boulevards. Select appropriate type from specification 3878. Seed Mixture 25-141 with Erosion Control Blankets Category 1 usually produces a better result than sod in residential areas.

Soils with known noxious weeds should be delineated and shown in the Plan and weed control measures will be taken to prevent movement of these weeds as per Minnesota Department of Agriculture noxious weed law.

In areas that will be seeded with native seed mixes, the Designer should consider providing a pay item for mowing. The native species may not flourish unless cover crop is mowed. The designer should also consider mowing needs for multi-year projects where mowing maintenance of seed and sod areas may be required.

Sample Plan

TURF ESTABLISHMENT PLAN ----- CHECKLIST

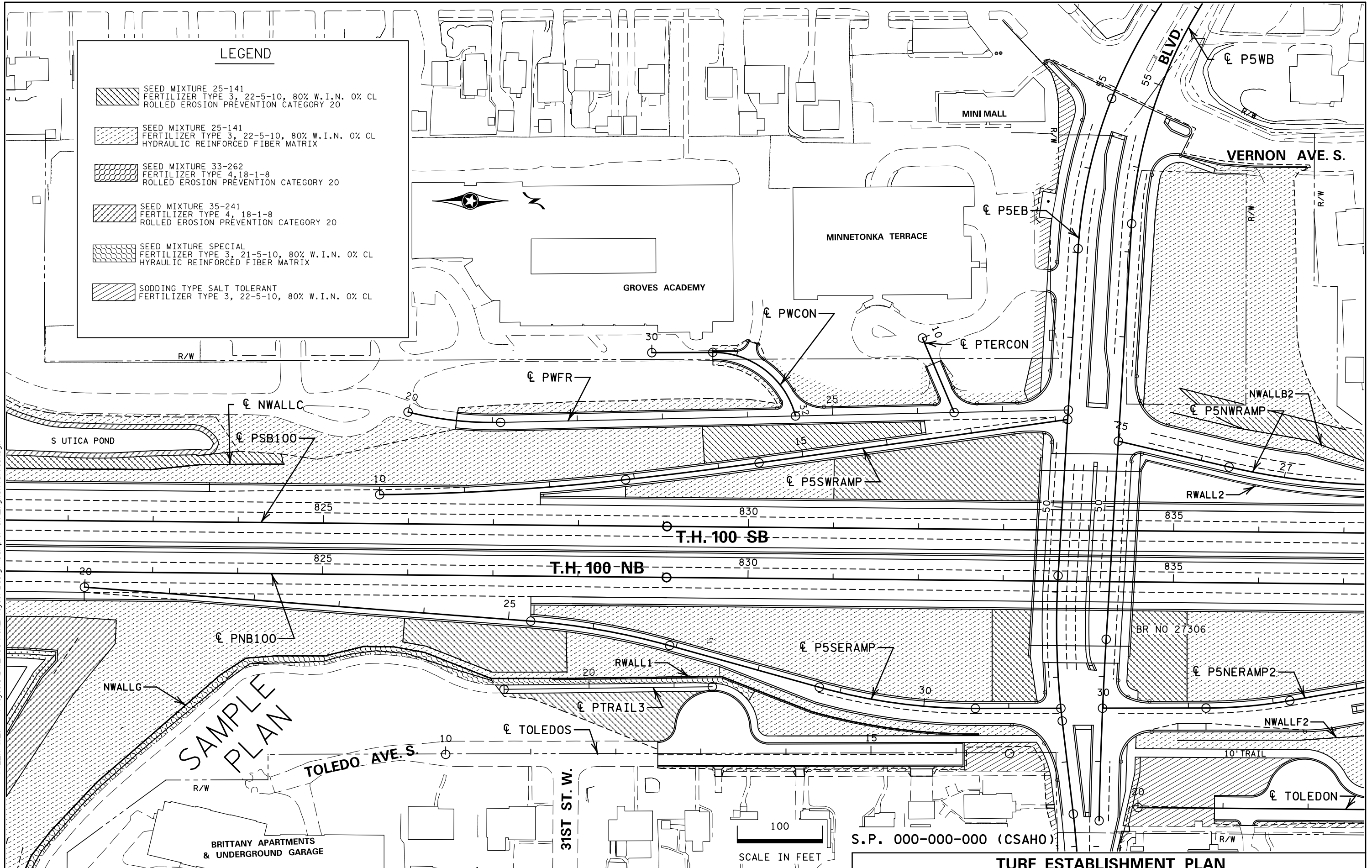
- 1. North Arrow
- 2. Bar Scale
- 3. Stationing Labeled (500' increments)
- 4. Legend
- 5. Roadways and Bridges labeled
- 6. R/W, T.E. and Construction Limits shown
- 7. Cross references to other sheets (as applicable)
- 8. Areas of Environmental Sensitivity
- 9. Noxious weeds (if room permits)
- 10. Drawn by: and Checked by: Initials and Engineer's signature

TURF ESTABLISHMENT PLAN NARRATIVE AND CHECKLIST

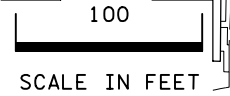
REVISION DATE 02/19/20
PLOTTED/REVISED: 25-FEB-2020

DISTRICT #: Metro
PLOT NAME: turfest
FILENAME: Projects\DM_ROS\Win_Proj\Design\SamplePlan\English\turfest.dgn

LEGEND	
	SEED MIXTURE 25-141 FERTILIZER TYPE 3, 22-5-10, 80% W.I.N. 0% CL ROLLED EROSION PREVENTION CATEGORY 20
	SEED MIXTURE 25-141 FERTILIZER TYPE 3, 22-5-10, 80% W.I.N. 0% CL HYDRAULIC REINFORCED FIBER MATRIX
	SEED MIXTURE 33-262 FERTILIZER TYPE 4, 18-1-8 ROLLED EROSION PREVENTION CATEGORY 20
	SEED MIXTURE 35-241 FERTILIZER TYPE 4, 18-1-8 ROLLED EROSION PREVENTION CATEGORY 20
	SEED MIXTURE SPECIAL FERTILIZER TYPE 3, 21-5-10, 80% W.I.N. 0% CL HYDRAULIC REINFORCED FIBER MATRIX
	SODDING TYPE SALT TOLERANT FERTILIZER TYPE 3, 22-5-10, 80% W.I.N. 0% CL



SAMPLE PLAN



S.P. 000-000-000 (CSAH0)

TURF ESTABLISHMENT PLAN

DRAWN BY: HS

CHECKED BY: HG

CERTIFIED BY

Will D. Zire
 LICENSED PROFESSIONAL ENGINEER

LIC. NO. 00000 DATE 02/13/17

STATE PROJ. NO. 0000-00 (T.H. 00) SHEET NO. 79 OF 84 SHEETS