

**SEED MIX NOTES:**

**BUFFER AREAS A AND B (NORTHEAST & CENTRAL) - 50% BLEND OF THE FOLLOWING 2 MIXES:**

**1. Conservation Wildflower Mix**

Seed Mix Information:  
Soil Type: An economical wildflower mix - great for wildlife habitat  
Soil Moisture: Mesic  
Average Height: 3 ft. to 6 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: 1/2 lb. per 10,000 sq. ft.

Composition:  
17% Purple prairie clover, 17% Black-eyed Susan, 17% Hoary vervain, 10% Common ox-eye, 10% Stiff goldenrod, 8% Tall blazing star, 6% Fragrant giant hyssop, 6% Leadplant, 3% Canada tick trefoil, 3% Bush clover, 2% Wild bergamot, 1% Common milkweed, all by bulk weights.

**2. Mixed Height/Mesic Grass Mix**

Seed Mix Information:  
Soil Type: Suitable for most sites and for a variety of soils including clay.  
Soil Moisture: Mesic  
Average Height: 2.5-6 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: Broadcast: Drill: 6 lbs. per acre

Composition:  
33.3% Big bluestem, 23% Little bluestem, 22% Indian grass, 10% Side oats grama, 5% Canada wild rye, 1% Switch grass by PLS weight, 2.5% Kalm's brome, 2% Prairie dropseed, 1% Sand dropseed by bulk weight

**BUFFER AREA C (SOUTHEAST) - 50% BLEND OF THE FOLLOWING 2 MIXES:**

**1. Short/Dry Wildflower Mix**

Seed Mix Information:  
Soil Type: Ideal in sandy or gravelly soils, along walkways and around buildings where shorter vegetations is desirable  
Soil Moisture: Dry  
Average Height: 1-3 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: Broadcast: 1/2 lb. per 10,000 sq. ft.

Composition:  
17% Purple prairie clover, 16% Black-eyed Susan, 15% Hoary vervain, 10% Leadplant, 10% White prairie clover, 4% Bush clover, 4% Showy penstemon, 3% Azure aster, 3% Gray goldenrod, 3% Golden Alexander, 2% Common milkweed, 2% Rough blazing star, 2% Wild bergamot, 2% Prairie rose, 2% Stiff goldenrod, 1% Fragrant giant hyssop, 1% Stiff tickseed, 1% Prairie cinqufoil, 1% Western spiderwort, 0.5% Yarrow, 0.5% Northern bedstraw, all by bulk wt.

**2. Short/Dry Grass Mix**

Seed Mix Information:  
Soil Type: Ideal in sandy or gravelly soils, along walkways and around buildings where shorter vegetations is desirable  
Soil Moisture: Dry  
Average Height: 1-3 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: Drill: 6 lbs. per acre

Composition:  
46% Little bluestem, 34% Side oats grama, 8% Blue grama by PLS weights, 4% Kalm's brome, 4% Poverty oat grass, 2% Prairie dropseed, 2% Sand dropseed, by bulk weight

**WETLAND AREA (CENTRAL, AREA B):**

**1. Shoreline Wildflower Mix (above the 857.5 contour- refer to Sheet C4.2)**

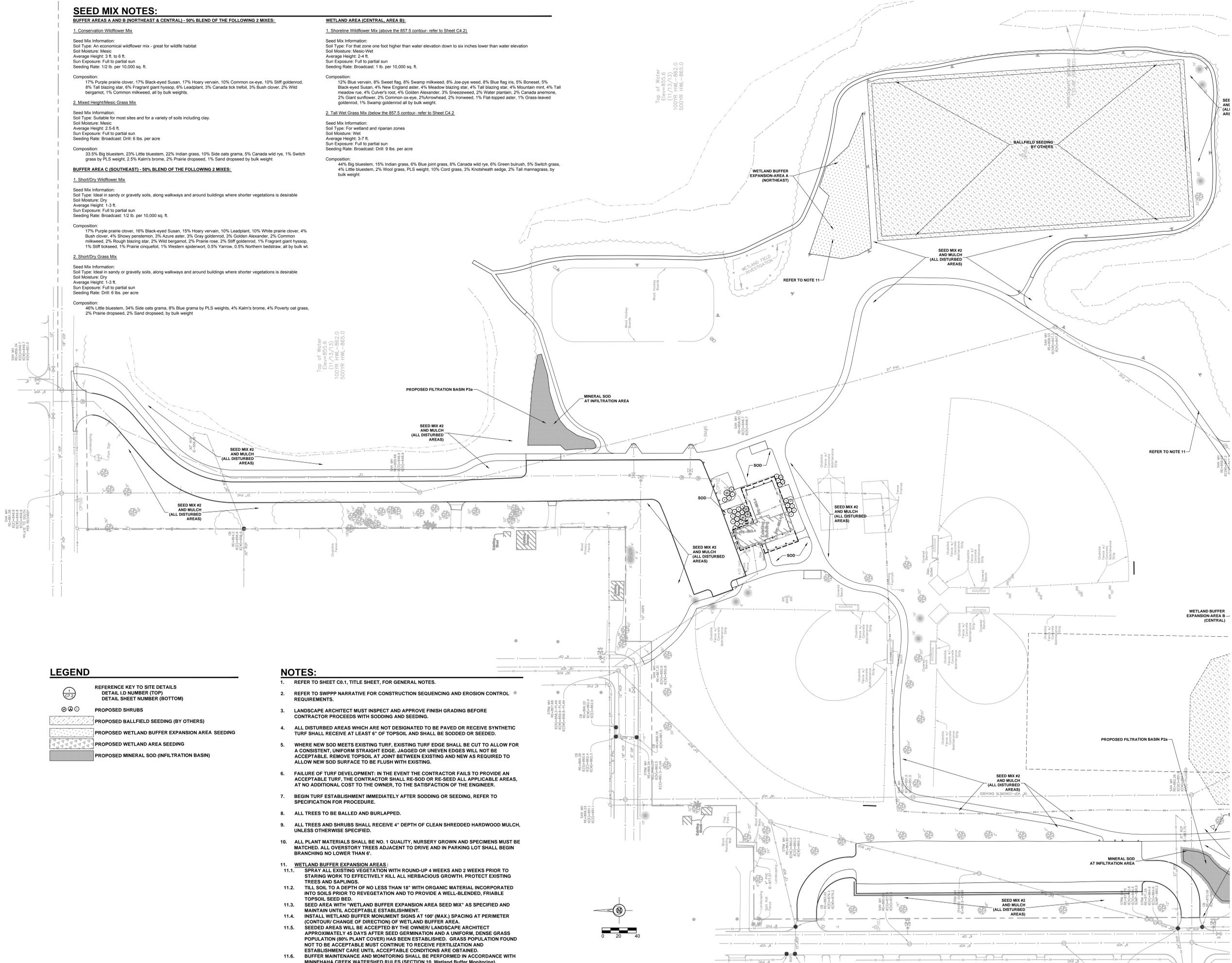
Seed Mix Information:  
Soil Type: For that zone one foot higher than water elevation down to six inches lower than water elevation  
Soil Moisture: Mesic-Wet  
Average Height: 2-4 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: Broadcast: 1 lb. per 10,000 sq. ft.

Composition:  
12% Blue vervain, 8% Sweet flag, 8% Swamp milkweed, 8% Joe-pye weed, 8% Blue flag iris, 5% Boneset, 5% Black-eyed Susan, 4% New England aster, 4% Meadow blazing star, 4% Tall blazing star, 4% Mountain mint, 4% Tall meadow rue, 4% Culex's root, 4% Golden Alexander, 3% Sneezeweed, 2% Water plantain, 2% Canada anemone, 2% Giant sunflower, 2% Common ox-eye, 2% Arrowhead, 2% Ironweed, 1% Flat-topped aster, 1% Grass-leaved goldenrod, 1% Swamp goldenrod all by bulk weight.

**2. Tall Wet Grass Mix (below the 857.5 contour- refer to Sheet C4.2)**

Seed Mix Information:  
Soil Type: For wetland and riparian zones  
Soil Moisture: Wet  
Average Height: 3-7 ft.  
Sun Exposure: Full to partial sun  
Seeding Rate: Broadcast: Drill: 9 lbs. per acre

Composition:  
44% Big bluestem, 15% Indian grass, 6% Blue joint grass, 6% Canada wild rye, 6% Green bulrush, 5% Switch grass, 4% Little bluestem, 2% Wool grass, PLS weight, 10% Cord grass, 3% Knotgrass sedge, 2% Tall mangrass, by bulk weight

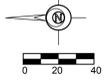


**LEGEND**

- REFERENCE KEY TO SITE DETAILS  
DETAIL I.D NUMBER (TOP)  
DETAIL SHEET NUMBER (BOTTOM)
- PROPOSED SHRUBS
- PROPOSED BALLFIELD SEEDING (BY OTHERS)
- PROPOSED WETLAND BUFFER EXPANSION AREA SEEDING
- PROPOSED WETLAND AREA SEEDING
- PROPOSED MINERAL SOD (INFILTRATION BASIN)

**NOTES:**

1. REFER TO SHEET C0.1, TITLE SHEET, FOR GENERAL NOTES.
2. REFER TO SWPPP NARRATIVE FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
3. LANDSCAPE ARCHITECT MUST INSPECT AND APPROVE FINISH GRADING BEFORE CONTRACTOR PROCEEDS WITH SODDING AND SEEDING.
4. ALL DISTURBED AREAS WHICH ARE NOT DESIGNATED TO BE PAVED OR RECEIVE SYNTHETIC TURF SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED OR SEEDED.
5. WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
6. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD OR RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
7. BEGIN TURF ESTABLISHMENT IMMEDIATELY AFTER SODDING OR SEEDING, REFER TO SPECIFICATION FOR PROCEDURE.
8. ALL TREES TO BE BALLED AND BURLAPPED.
9. ALL TREES AND SHRUBS SHALL RECEIVE 4" DEPTH OF CLEAN SHREDDED HARDWOOD MULCH, UNLESS OTHERWISE SPECIFIED.
10. ALL PLANT MATERIALS SHALL BE NO. 1 QUALITY, NURSERY GROWN AND SPECIMENS MUST BE MATCHED. ALL OVERSTORY TREES ADJACENT TO DRIVE AND IN PARKING LOT SHALL BEGIN BRANCHING NO LOWER THAN 6'.
11. **WETLAND BUFFER EXPANSION AREAS:**
  - 11.1. SPRAY ALL EXISTING VEGETATION WITH ROUND-UP 4 WEEKS AND 2 WEEKS PRIOR TO STARTING WORK TO EFFECTIVELY KILL ALL HERBACIOUS GROWTH. PROTECT EXISTING TREES AND SAPLINGS.
  - 11.2. TILL SOIL TO A DEPTH OF NO LESS THAN 18" WITH ORGANIC MATERIAL INCORPORATED INTO SOILS PRIOR TO REVEGETATION AND TO PROVIDE A WELL-BLENDED, FRIABLE TOPSOIL SEED BED.
  - 11.3. SEED AREA WITH "WETLAND BUFFER EXPANSION AREA SEED MIX" AS SPECIFIED AND MAINTAIN UNTIL ACCEPTABLE ESTABLISHMENT.
  - 11.4. INSTALL WETLAND BUFFER MONUMENT SIGNS AT 100' (MAX.) SPACING AT PERIMETER (CONTOUR/ CHANGE OF DIRECTION) OF WETLAND BUFFER AREA.
  - 11.5. SEEDED AREAS WILL BE ACCEPTED BY THE OWNER/ LANDSCAPE ARCHITECT APPROXIMATELY 45 DAYS AFTER SEED GERMINATION AND A UNIFORM, DENSE GRASS POPULATION (80% PLANT COVER) HAS BEEN ESTABLISHED. GRASS POPULATION FOUND NOT TO BE ACCEPTABLE MUST CONTINUE TO RECEIVE FERTILIZATION AND ESTABLISHMENT CARE UNTIL ACCEPTABLE CONDITIONS ARE OBTAINED. BUFFER MAINTENANCE AND MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH MINNEHAHA CREEK WATERSHED RULES (SECTION 10, Wetland Buffer Monitoring).
  - 11.6.



Project No. 13109  
Date 05/09/2014  
Drawn By JBC  
Checked By JBC  
Revisions  
DATE  
BY  
REVISION

**LANDSCAPING PLAN**

I hereby certify that this plan, specification, or report was prepared by me or under my supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.  
SAY & POWER  
Reg. No. 23243 Date 05/26/14

**AJA**  
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