

**GENERAL NOTES**

1. PLANT SUBSTITUTIONS WILL NOT BE ACCEPTABLE UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
2. THE CONTRACTOR SHALL FAMILIARIZE HIM OR HERSELF WITH THE SCOPE OF WORK, SOIL, LOCATION OF UTILITIES, AND WATER CONDITIONS BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
5. PLANT SPACING WILL BE SCALED ON PLAN UNLESS NOTED OTHERWISE.
6. SPREAD PRE-EMERGENCE HERBICIDE AND THREE INCHES OF SHREDDED HARDWOOD MULCH IN ALL PLANTING BEDS.
7. IN ALL LAWN AREAS AND PLANTING BEDS (SEE SHEETS 12,13, 14 AND 15) REMOVE ALL MATERIAL HARMFUL TO PLANT GROWTH INCLUDING BRUSH, DEBRIS, WEEDS, AND STONES OVER 1" DIAMETER. SPREAD 4" OF TOPSOIL AND FINISH GRADE TO DRAIN.
8. FORM PLANTING MIX FOR ALL PLANT BEDS BY SPREADING TWO INCHES OF COMPOST (pH OF 5.5 TO 7) AND THOROUGHLY ROTOTILLING INTO TOP EIGHT INCHES OF TOPSOIL. FOR TREE PITS MIX COMPOST INTO PIT EXCAVATIONS AT A 1:3 RATIO BEFORE BACKFILLING. IF EXCAVATIONS ARE DEEMED TO BE UNSTABLE BY THE ENGINEER, THE BACKFILL SHALL CONSIST OF TOPSOIL APPROVED BY THE ENGINEER.
9. FINISH GRADES IN PLANTING BEDS ARE TO BE SMOOTH AND PROVIDE POSITIVE DRAINAGE PRIOR TO PLANT AND MULCH INSTALLATION.
10. CONTRACTOR IS TO PREVENT DAMAGE TO CURBS AND PAVEMENTS ADJACENT TO CONSTRUCTION.
11. MAINTAIN PLANTINGS AND BEDS BY SPRAYING, WATERING, WEEDING, RESTORING PLANT STAKES, AND GUY SUPPORTS AS REQUIRED TO ESTABLISH HEALTHY PLANTS FOR 60 DAYS FROM SUBSTANTIAL COMPLETION.
12. PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS. WARRANTY INCLUDES REPLACING ANY PLANT WHICH IS 25% OR MORE DEAD, DISEASED, OR DISFIGURED ONCE DURING THE WARRANTY PERIOD.
13. PROVIDE QUALITY, GENUS, SIZE, SPECIES, AND VARIETY OF PLANTS COMPLYING WITH THE APPLICABLE REQUIREMENTS OF ANSI Z60.1, "AMERICAN STANDARD FOR NURSURY STOCK".
14. ALL PLANT BEDS ABUTTING LAWN AREAS ARE TO BE SEPARATED BY SPADE EDGING AS DETAILED ON SHEET 15.
15. IF THERE ARE DISCREPANCIES BETWEEN PLANT QUANTITIES ON THE PLANS AND THE PLANT SCHEDULE, USE THE QUANTITIES FROM THE PLAN.
16. ALL PLANT MATERIAL SHALL BE GROWN FROM A SOURCE WITHIN A 150 MILE RADIUS OF THE SITE. FOR A LIST OF NATIVE PLANT SOURCES, SEE THE SOURCE LIST ON SHEET 16.

**LAWN PLANTING SPECIFICATIONS**

**QUALITY ASSURANCE:**

1. TOPSOIL ANALYSIS: FURNISH SOIL ANALYSIS OF EXISTING ON-SITE IMPORTED TOPSOIL BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; SODIUM ABSORPTION RATIO; DELETERIOUS MATERIAL; PH; AND MINERAL AND PLANT-NUTRIENT CONTENT OF TOPSOIL.
2. INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL LAWN AND NATIVE PRAIRIE ESTABLISHMENT.
3. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL TIME SUPERVISOR.
  - A. MAINTENANCE PROXIMITY: NO MORE THAN TWO HOURS NORMAL TRAVEL TIME FROM THE CONTRACTOR'S PLACE OF BUSINESS TO THE PROJECT SITE.
  - B. WEATHER LIMITATIONS: PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT.
  - C. INITIAL LAWN AND NATIVE PRAIRIE MAINTENANCE SERVICE: PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLER. MAINTAIN AS REQUIRED BELOW. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE MEADOW IS ESTABLISHED, BUT FOR NOT LESS THAN 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION.
  - D. WHEN INITIAL MAINTENANCE PERIOD HAS NOT ELAPSED BEFORE END OF PLANTING SEASON, OR IF LAWN IS NOT FULLY ESTABLISHED, CONTINUE MAINTENANCE DURING NEXT PLANTING SEASON.
4. SUBMITTALS:
  - A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
  - B. CERTIFICATION OF GRASS SEED: FROM SEED VENDOR FOR EACH GRASS-SEED MONOSTAND OR MIXTURE STATING THE BOTANICAL AND COMMON NAME AND PERCENTAGE BY WEIGHT OF EACH SPECIES AND VARIETY, AND PERCENTAGE OF PURITY, GERMINATION, AND WEED SEED. INCLUDE THE YEAR OF PRODUCTION AND DATE OF PACKAGING.
  - C. QUALIFICATION DATA: FOR LANDSCAPE CONTRACTOR.
  - D. MATERIAL TEST REPORTS: FOR EXISTING AND IMPORTED TOPSOIL.
  - E. PLANTING SCHEDULE: INDICATING ANTICIPATED PLANTING DATES FOR EACH TYPE OF PLANTING.
  - F. MAINTENANCE INSTRUCTIONS: RECOMMENDED PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF LAWNS AND NATIVE PRAIRIE DURING A CALENDER YEAR. SUBMIT BEFORE EXPIRATION OF REQUIRED INITIAL MAINTENANCE PERIODS.
5. SEED: DELIVER SEED IN ORIGINAL SEALED, LABELED, AND UNDAMAGED CONTAINERS. SEED SHALL BE GROWN FROM A SOURCE WITHIN 150 MILE RADIUS OF THE SITE. SEE SHEET 16 FOR NATIVE SEED SOURCES.

**SITE PREPARATION:**

**PRODUCTS:**

1. SELECTIVE HERBICIDES: EPA REGISTERED AND APPROVED, NON-PERSISTENT WITH GLYPHOSATE, RECOMMENDED FOR APPLICATION.
  - A. APPLICATION TIME: APRIL TO MAY OR AUGUST TO MID-SEPTEMBER.

2. TOPSOIL: MEETS GUIDLINES SET FORTH IN THE "CALUMET DESIGN GUIDELINES", FEBRUARY, 2004 PAGE 68 INCLUDING, BUT NOT LIMITED TO: PH RANGE OF 5.5 TO 7, 3 TO 10 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEIOUS MATERIALS HARMFUL TO PLANT GROWTH INCLUDING WEED SEEDS.
  - A. IMPORTED TOPSOIL STOCKPILED ON-SITE IS TO BE COVERED TO PREVENT EROSION AND CONTAMINATION WITH WEEDS.

**EXECUTION:**

1. EXAMINE AREAS TO RECEIVE LAWNS AND PLANT BEDS FOR COMPLIANCE WITH REQUIREMENTS AND OTHER CONDITIONS AFFECTING PERFORMANCE.
2. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3. PROTECT STRUCTURES, UTILITIES, SIDEWALK, PAVEMENTS, AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS.
4. MOW EXISTING VEGETATION AS REQUIRED. APPLY SELECTIVE HERBICIDE PER MANUFACTURER'S RECOMMENDATIONS TO AREAS TO RECEIVE LAWN AND PLANT BEDS. DO NOT APPLY HERBICIDE WHEN WIND CONDITIONS COULD RESULT IN DAMAGE TO VEGETATION OUTSIDE AREAS TO BE PLANTED.
5. SIX WEEKS FOLLOWING THE INITIAL APPLICATION, APPLY A SECOND APPLICATION AS REQUIRED. OBTAIN ENGINEER'S APPROVAL OF WEED-CONTROL PRIOR TO CONTINUING SITE PREPARATION OPERATIONS.
6. REMOVE EXISTING VEGETATION, WOODY PLANTS, STUMPS, TURF AND ROCKS OVER TWO INCHES IN DIAMETER IN AREAS TO RECEIVE LAWN AND PLANT BEDS.
7. PROMPTLY REMOVE DEBRIS CREATED BY SITE PREPARTION AND LEGALLY DISPOSE OF OFF-SITE.
8. LOOSEN SUBGRADE TO A DEPTH OF THREE INCHES, SPREAD IMPORTED TOPSOIL TO A DEPTH OF FOUR INCHES.
  - A. DO NOT SPREAD IF TOPSOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
9. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE. REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
  - A. BEFORE PLANTING, RESTORE AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.

**NATIVE PRAIRIE AND LOW-MOW GRASS PLANTING:**

**PRODUCTS:**

1. SEED MIXES: SEE TABLES ON SHEET 16 & 17 FOR SPECIES AND RATES OF SEED MIXES.
  - A. NATIVE PRAIRIE PLANTING TIME: MAY 1 TO JUNE 15 OR OCTOBER 1 TO SOIL FREEZE.
  - B. LOW-MOW GRASS PLANTING TIME: APRIL 1 TO MAY 15 OR AUGUST 15 TO SEPTEMBER 30.

2. STRAW MULCH: PROVIDE AIR-DRY, CLEAN, MILDEW- AND SEED-FREE, SALT HAY OR THRESHED STRAW OF WHEAT, RYE, OATS, OR BARLEY.

**EXECUTION:**

1. SOW SEED USING BROADCAST SPREADER AT RATES INDICATED IN DRAWINGS.
  - A. DO NOT USE BROADCAST OR DROP SEED WHEN WIND EXCEEDS 5 MPH.
  - B. AS REQUIRED, USE AGITATOR AND CARRYING AGENTS APPROVED FOR NATIVE PRAIRIE APPLICATIONS TO INSURE GOOD DISTRIBUTION.
2. COVER SEEDS WITH SOIL BY HARROWING OR RAKING AND LIGHTLY COMPACT WITH ROLLER. DO NOT COVER SEED MORE THAN 1/4" DEEP.
3. BREAK STRAW MULCH INTO SMALL PIECES AND SPREAD AT 2 TONS/ ACRE TO A DEPTH NOT EXCEEDING ONE INCH.

**NATIVE PRAIRIE AND LOW-MOW GRASS PLANTING:**

1. MAINTAIN AND ESTABLISH LAWN BY WATERING, WEEDING, REPLANTING, AND OTHER OPERATIONS. REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH.
2. WATERING: PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP MEADOW UNIFORMLY MOIST.
  - A. SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
  - B. FOR SIX WEEKS WATER GRASS DAILY, IN THE EARLY MORNING, WITH FINE SPRAY FOR 15 TO 30 MINUTES UNTIL SOIL IS VERY DAMP. AFTER SIX WEEKS, WATERING CAN BE REDUCED TO EVERY 2 TO 5 DAYS DEPENDING ON WEATHER CONDITIONS UNTIL THE END OF THE MAINTENANCE PERIOD.
  - C. CHEMICAL WEED CONTROL MAY BE PROVIDED WITH TRADITIONAL LAWN HERBICIDES PER THE MANUFACTURER'S RECOMMENDATIONS. CHEMICAL WEED CONTROL SHALL ONLY BE PROVIDED FOR SPOT CONTROL. SPRING PLANTING MAY REQUIRE MORE WEED CONTROL THAN FALL.
  - D. SATISFACTORY SEEDED LAWN: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
  - E. USE SPECIFIED MATERIALS TO REESTABLISH LAWNS THAT DO NOT COMPLY WITH REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
  - F. IF SOWING THE NATIVE PRAIRIE IN THE FALL, INITIAL WATERING SCHEDULE MAY BE REDUCED AS WEATHER CONDITIONS PERMIT.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	17	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
<b>CONTRACT NO. 44917</b>				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LANDSCAPING NOTES  
IDOT / IHPA  
PULLMAN STATE HISTORIC SITE

SCALE: VERT. HORIZ.  
DATE: 11/08/05  
DRAWN BY: DJM  
CHECKED BY: PJM