

**NOTES:**

1. PLANTING OF TREES AND SHRUBS SHALL NOT OCCUR UNTIL ALL GRADING IS COMPLETED,
2. ALL PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH FOR THE SPECIES AND SHALL BE SOUND, HEALTHY AND FREE OF DISEASE AND INSECTS. THEY SHALL CONFORM TO THE MEASUREMENTS ON THE PLANT LIST AND SHALL CONFORM TO ANSI Z60.1 – NURSERY STOCK, LATEST REVISIONS.
3. ALL PLANTS SHALL HAVE ALL NON-BIODEGRADABLE MATERIALS (STRING, WIRE, POTS, ETC.) REMOVED AT THE TIME OF PLANTING. CIRCLING ROOTS THAT WOULD LATER GIRDLE THE PLANT SHALL BE STRAIGHTENED, CUT OR THE ROOT BALL SHALL BE CUT UTILIZING THE "BUTTERFLY METHOD".
4. BACKFILL MIX SHALL BE COMPOSED OF A 75/25, LOAM/PEAT MOSS MIX. PLANTING PITS SHALL BE EXCAVATED TO TWICE THE DIAMETER AND TO 6" BELOW THE PLANT ROOT BALL. BACKFILL 1/2 OF DEPTH OF PIT AT A TIME AND COMPACT.
5. ALL TREES SHALL HAVE PLANT SUPPORT STAKES INSTALLED AT THE TIME OF PLANTING. 2.5-3" CAL. TREES SHALL HAVE THREE SUPPORT STAKES, 5-6', 6-7' AND 7-8' EVERGREEN TREES SHALL HAVE TWO SUPPORT STAKES. REFER TO THE PLANTING DETAIL AND SPECIFICATIONS FOR STAKE ARRANGEMENT AND TREATMENT.
6. MULCH TO BE INSTALLED TO A DEPTH OF 4" AFTER NORMAL SETTLING. MULCH SHALL BE MEDIUM SHREDDED HEMLOCK BARK, TREATED WITH "TREELAN" OR EQUAL, PRIOR TO INSTALLATION.
7. ALL PLANTS SHALL HAVE THEIR LOCATIONS STAKED AND APPROVED BY THE ENGINEER PRIOR TO PLANT INSTALLATION. ALL PLANTS SHALL BE ORIENTED FOR BEST APPEARANCE.
8. PLANT SPECIES SUBSTITUTIONS WILL NOT BE ALLOWED UNLESS FIRST APPROVED BY THE ENGINEER.
9. ALL PLANTS SHALL BE GUARANTEED FOR ONE GROWING SEASON. ANY PLANTS THAT DIE DURING THE GUARANTEE SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
10. ALL AREAS NOT IDENTIFIED WITH OTHER SURFACE TREATMENTS SHALL BE LAWN. THE LAWN AREA SHALL BE SEEDED AS LISTED BELOW AND MULCHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE. MAINTENANCE SHALL COMMENCE AT THE TIME OF PLANTING AND LAST UNTIL A GOOD FULL CATCH OF GRASS IS ESTABLISHED, AS DETERMINED BY THE ENGINEER.

**SEED MIXTURES:**

NEW ENGLAND CONSERVATION SEED MIXTURE:  
SHALL BE APPLIED TO ALL AREAS NOT  
REQUIRED FOR LAWN. THESE AREAS SHOULD  
BE LEFT UNMOWED.

LAWN REPAIR MIXTURE: SHALL BE  
APPLIED IN ALL AREAS WHERE AN EXISTING  
LAWN IS DISTURBED.

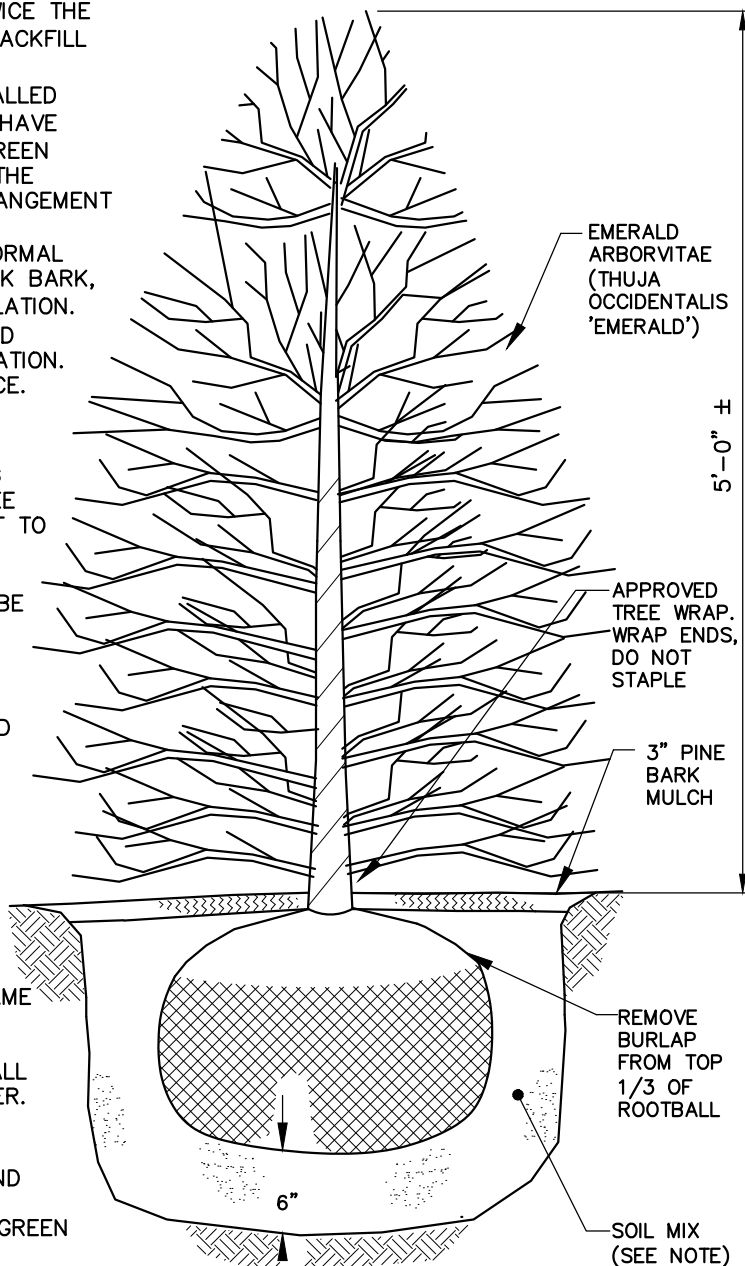
11. ALL PLANTS SHALL BE NURSERY GROWN WITHIN THE SAME PLANT HARDINESS ZONE AS THE PROJECT SITE UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A DETAILED LIST OF ALL PLANTS AND THEIR NURSERY SOURCES TO THE ENGINEER.

**12. SYMBOLS:**

- B&B – BAILED AND BURLAPPED
- CAL. – DIAMETER OF TREES 6" ABOVE THE GROUND
- O.C. – ON CENTER
- FULL – HEAVILY AND UNIFORMLY BRANCHED EVERGREEN TREE OR SHRUB

**NOTE:**

FOR EVERGREEN TREES/SHRUBS,  
USE A MIXTURE OF 4 PARTS  
TOPSOIL TO 1 PART ROTTED  
MANURE. FOR DECIDUOUS TREES,  
USE A MIXTURE OF 4 PARTS  
TOPSOIL TO 1 PART PEAT HUMUS.



**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
TOWN OF BILLERICA,  
MASSACHUSETTS**

**ARBORVITAE  
PLANTING**

CREATED BY: DCW/KCS

SCALE: NTS

FILE:

CHECKED BY: GA/JT

DATE: 06/29/2015