

LANDSCAPE GENERAL NOTES:

1. ALL PLANT MATERIAL IS SUBJECT TO AVAILABILITY AND CORRECT SEASONAL PLANTING PROCEDURE. ANY AND ALL SUBSTITUTIONS REQUEST MUST BE SUBMITTED IN WRITING TO THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING SUBSTITUTION MATERIALS.
2. ALL PLANTS SHALL RECEIVE MIN. 3" DEPTH OF SHREDDED HARDWOOD BARK MULCH COVER IN PLANTING BED, INCLUDING PERENNIAL PLANTINGS.
3. THE LANDSCAPE CONTRACTOR SHALL STAKE AND LAYOUT ALL INSTALLATIONS AND BEDS FOR APPROVAL BY OWNER'S REPRESENTATIVE. FAILURE TO RECEIVE REVIEW AND APPROVAL MAY BE CAUSE TO REQUIRE THE REMOVAL OF PLANTS AND REINSTALLATION AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL SUPPLY LANDSCAPE PLANTING SOIL MIX FOR ALL PERENNIAL PLANTING BEDS TO CONSIST OF 1/3 TOPSOIL, 1/3 SAND AND 1/3 COMPOSTED MANURE OR "MUSHROOM COMPOST". THIS MIXTURE IS TO BE ROTOTILLED INTO THE SOIL A MINIMUM OF 8" THROUGHOUT THE BED, AFTER INSTALLATION MULCH AS SPECIFIED ABOVE. CONTRACTOR MUST ALSO WORK INTO SOIL TERRA-SORB HB AT A RATE PER THE MANUFACTURER'S RECOMMENDATION ALL SHRUB AND NON-IRRIGATED TREE AND PERENNIAL BEDS. SUBMIT MANUFACTURER'S LITERATURE FOR APPROVAL PRIOR TO IMPLEMENTATION.
5. THE CONTRACTOR SHALL PROVIDE A BASE OF 24" OF PULVERIZED IMPORTED TOPSOIL BEFORE PLANTING ANY MATERIAL. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A "SLIT" IN THE COMPACTED SUBBASE THROUGH ALL PLANTING BEDS WITH A BACKHOE. SEE TREE PLANTING DETAIL.

Plant Key			
SHADE TREES	COMMON NAME	BOTANICAL NAME	Quan Size
	"Shade Master" Honeylocust	<i>Gleditsia triacanthos "Shade Master"</i>	5 2.5" BB
	"State Street" Miyabe Maple	<i>Acer miyabei "Morton"</i>	8 2.5" BB
ORNAMENTAL TREES			
	Japanese Tree Lilac	<i>Syringa reticulata</i>	6 8" BB
SHRUBS			
	Gro-Low Sumac	<i>Rhus aromatica "Gro-Low"</i>	124 24" #3GAL
	Autumn Jazz Viburnum	<i>Viburnum dentatum "Autumn Jazz"</i>	16 36" BB
PERENNIALS			
	Black Eyed Susan "Little Suzy"	<i>Rudbeckia fulgida "Little Suzy"</i>	481 1 GAL
	"Happy Returns" Daylily	<i>Hemerocallis "Happy Return"</i>	476 1 GAL
	"Cherry Cheeks" Daylily	<i>Hemerocallis "Cherry Cheeks"</i>	301 1 GAL
	Purple Dome Aster	<i>Aster novae-angliae "Purple Dome"</i>	380 1 GAL
	"Autumn Joy" Sedum	<i>Sedum spectabile "Autumn Joy"</i>	446 1 GAL
	"Little Spire" Russian Sage	<i>Perovskia atriplicifolia "Little Spire"</i>	134 1 GAL
	"Elijah Blue" Fescue	<i>Festuca ovina var. glauca "Elijah Blue"</i>	187 1 GAL

1.00 PART 1 - DESCRIPTION:
Provide all materials and equipment, and do all work required to complete the planting, as indicated on the Drawings and specified herein.

1.01 REFERENCED STANDARDS:
American National Standards Institute, Inc. (ANSI): Z60.1 American Standard for Nursery Stock (Sponsor: American Association of Nurserymen)

1.02 SUBMITTALS:
Samples: The following samples shall be submitted, prior to commencement of work, to the Owner's Representative's office:

Material	Sample Size or Quantity
Mulch	1 cu. ft.
Planting soil mix	1 cu. ft.

Package of TerraSorb Water Absorption agent packet
Guying and Staking: Guying and staking will be Contractor's option, but all guys and/or stakes must be signaled with fluorescent marking tape, and guying and/or staking must be removed by the Contractor after 4 months growing time.

When conditions detrimental to plant growths are encountered; rubble fill, adverse drainage conditions, or obstructions, notify Owner's Representative before planting. A reasonable change order bid price may be developed to correct the situation. A complete list of plants, including a schedule of sizes, quantities and other requirements are shown on herein. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern. It shall be the responsibility of the Owner's Representative to list those discrepancies and/or omissions on the bid form as additional work.

1.03 SOURCE QUALITY CONTROL:
Selection of Plant Materials
All landscape plant material will be reviewed by the Owner's Representative. The Contractor will be responsible for coordinating delivery, installation, and maintenance of the trees until Substantial Completion is granted.

1.04 DELIVERY, STORAGE AND HANDLING:
Digging Plant Material
Plants shall not be dug at the nursery or approved source until the Contractor is ready to transport them from their original locations to the site of the work or acceptable storage location.

Transportation of Plant Material:
Plants transported to the project in open vehicles shall be covered with tarpaulins or other suitable covers securely fastened to the body of the vehicle to prevent injury to the plants. Closed vehicles shall be adequately ventilated to prevent overheating of the plants.
Plants shall be kept moist, fresh, and protected at all times. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in temporary storage.

1.05 REJECTION OF MATERIALS:
Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage, shall be cause for rejection. Should the roots be dried out, large branches be broken, balls of earth broken or loosened, or areas of bark be torn, the Owner's Representative will reject the injured plant.
When a plant has been rejected, remove it from the area of the work and replace it with one of the equal or greater required size and quality. This type of replacement is independent from all required guarantees.

2.00 PART 2 - MATERIALS

2.01 PLANTS:
Size and grade of plant materials shall conform to ANSI Z60.1. In no case shall ball size be less than 11 in. in diameter per inch of caliper.

Plants shall have outstanding form symmetrical, heavily branched with an even branch distribution, densely foliated and/or budded, and a strong, straight distinct leader where this is characteristic of species. Plants shall possess a normal balance between height and spread. The Owner's Representative will make final determination as to the acceptability of plant form.
Plants shall be healthy and vigorous, free of disease, and insect pests, and shall have a well-developed fibrous root system.
Plants shall be free of physical damage such as scrapes, broken or split branches, scars, bark abrasions, sunscalds, fresh limb cuts, knots, or other defects.

2.02 PLANTING SOIL MIX:
Excavated material from plant pits can be used as backfill planting mixture provided it is free of heavy clumps and debris and is amended with 1/4 part topsoil or 1/4 part well aged manure and provided it is approved by the Owner's Representative.
ALL Planting pits MUST be amended with TerraSorb water absorbing agent. Contractor to supply sample for acceptance prior to commencing with installations.
Planting soil shall have pH value range of 5.5 to 7.0.
If planting soil mixture does not fall within the required pH range, limestone or aluminum sulfate shall be added to bring the pH within the specified limit.

2.03 COMMERCIAL FERTILIZER:
Fertilizer content shall conform to the following:

Constituent	% Present by Weight
Nitrogen (N)	5
Phosphorus (P)	10
Potassium (K)	10

2.07 MULCH:
Mulch shall be 6 month old well rotted shredded native hardwood bark mulch not larger than 4" in length and 1/2" in width, free of woodchips and sawdust.

3.00 PART 3 - CONSTRUCTION REQUIREMENTS

3.01 LAYOUT OF PLANTING AREAS:
The Owner's Representative shall approve locations of plants prior to planting. The Owner's Representative has the right and authority to request all shrubs and perennials be set in place by the Owner's Representative and/or a laborer for approval prior to planting. Failure to receive approval prior to planting will be cause for the Owner's Representative to request the planting locations be revised at no additional expense to the Owner.

3.02 UTILITIES:
It is the responsibility of the Contractor to obtain accurate utility location information from the appropriate sources and review it fully prior to construction. Contractor to have J.U.L.I.E. identifying locations as required to coordinate planting.

Prior to the start of the work, the Contractor shall verify to his satisfaction that all utilities, both above and below ground, will not interfere or conflict with excavation or other essential activities. Any detected conflict between existing structures, irrigation, paving, utilities, or other facilities and the work of this Project shall be called to the Owner's Representative's attention before proceeding with the work.

3.03 PLANT PIT EXCAVATION:
When conditions detrimental to plant growth are encountered, such as rubble fill, debris, or obstructions, notify the Owner's Representative before planting.

3.04 PLANTING:
Walls of plant pits shall be dug so that they are vertical and scarified. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected by Owner's Representative, or arrangements for removal of the obstruction have been approved by Owner's Representative.
Planting shall be positioned in center of planting pit set plumb, and rigidly braced in position until all planting soil has been tamped around the ball.
Pits shall be backfilled with planting soil mix. Soil shall be worked carefully into voids and pockets, tamping lightly every 6 in.
When pit is two-thirds full, plants shall be watered thoroughly, and water left to soak in before proceeding.
At this time, ropes or strings on top of ball shall be cut and shall be pulled back. Burlap or cloth wrapping shall be left intact around ball except that portions of wrap that are exposed at top of ball shall be turned under and buried.
Non-biodegradable ball wrapping and support wire shall be totally removed from ball and planting pit.
Backfilling and tamping shall be finished and a saucer formed around plants.
Saucer shall be filled with water left to soak in. Fill saucer with water again.

3.05 PRUNING:
Prune branches of deciduous stock, after planting, to balance the loss of roots and preserve the natural character appropriate to the particular plant requirements. In general, remove 1/4 to 1/3 of the leaf bearing buds, proportion shall in all cases be acceptable to the Owner's Representative. Remove or cut back broken, damaged, and unsymmetrical growth of new wood.
Multiple leader plants: Preserve the leader which will best promote the symmetry of the plant. Cut branches flush with the trunk or main branch, at a point beyond a lateral shoot a distance not less than 1/2 the diameter of the supporting branch.
Prune evergreens only to remove broken or damaged branches.

3.06 BED EDGING:
All bed edges and tree rings shall be spade edged. Spade edge shall be a maximum of 2 1/2" deep and a minimum of 1 1/2" deep.

3.07 MAINTENANCE OF PLANTING:
Maintenance shall begin immediately after each plant is planted and shall continue until written approval of Substantial Completion in each work area. Cost for this work shall be included in the unit price of each plant. After approval of Substantial Completion, maintenance shall become the responsibility of the Owner.

Maintenance shall consist of pruning, watering, cultivating, weeding, mulching, removal of dead material, repairing and replacing of damaged tree wrap material, resetting plants to proper grades and upright position, and furnishing and applying such sprays as are necessary to keep plantings in a healthy growing condition.

Planting areas shall be kept free of weeds, grass, and other undesired vegetation. Water trees within the first 24 hours of initial planting, and not less than once per week. Include seven (7) waterings, and as necessary for contractor to maintain healthy vigorous growth until Acceptance is received in writing.

3.08 CLEANING:
Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soil, debris, and equipment. Repair damage resulting from planting operations.

NOTES:

1. LANDSCAPE CONTRACTOR SHALL CONFIRM TREE PIT DOES NOT HOLD WATER.

2. LANDSCAPE CONTRACTOR TO INSTALL TREE AT ELEVATION OF NURSERY GRADE
3. LAYOUT AS INDICATED ON THE PLANTING PLAN

SELECTIVELY PRUNE TREE AFTER INSTALLATION FOR BEST APPEARANCE. REMOVE ALL SUCKER GROWTH AND DEAD BRANCHES

3" MIN. MULCH DEPTH AT BASE OF TREE, MULCH RING DIA. AS INDICATED ON PLAN

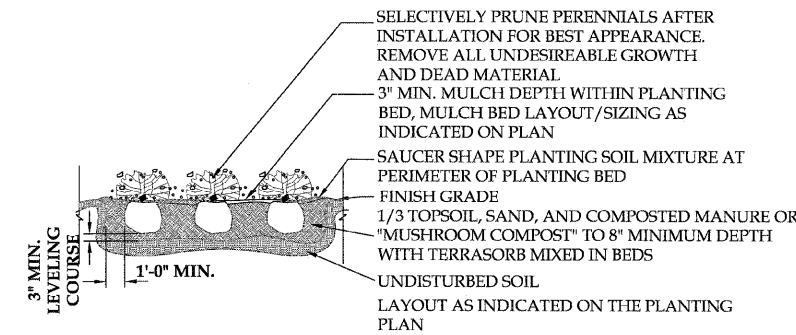
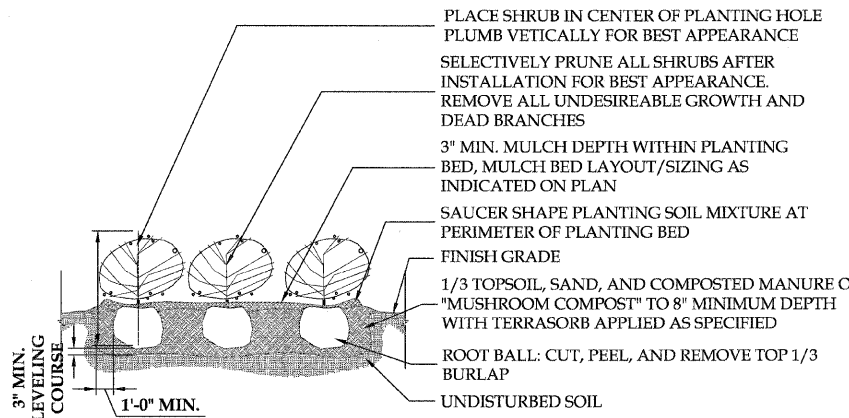
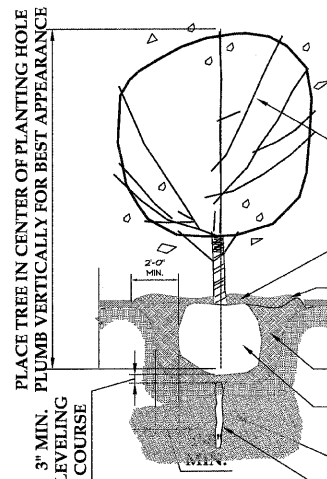
SAUCER SHAPE PLANTING SOIL MIXTURE AT PERIMETER OF MULCH RING

FINISH GRADE
1/3 TOPSOIL, SAND, AND COMPOSTED MANURE OR "MUSHROOM COMPOST" THROUGHOUT PLANTING PIT

ROOT BALL: WIRE CAGES MAY REMAIN. CUT, PEEL, AND REMOVE TOP 1/3 BURLAP AND ROPES FROM TREE BASE

UNDISTURBED SOIL

PUT "SLIT" IN SOIL WITH BACK HOE THROUGH ALL PLANTING BEDS AFTER ROAD CONSTRUCTION IS COMPLETE. THIS WILL ALLOW ROOTS TO ESTABLISH THROUGH THE COMPACTED SOIL FROM THE ROAD CONSTRUCTION.



1 Tree Planting Detail
SCALE: NTS

2 Shrub Planting Detail
SCALE: NTS

3 Perennial Planting Detail
SCALE: NTS

Total Sheets	Sheet No.	□	□
234	117	□	□



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Village of Grayslake - Route 45 Median Plantings
Landscape Planting Details

scale	AS NOTED
design	3D
date	July 31, 2009
revision	August 20, 2009
revision	August 25, 2009
revision	September 21, 2009

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of 3 sheet(s)