



August 4, 2014

Mr. David Lothspeich
Village Manager
Village of Long Grove
3110 Old McHenry Road
Long Grove, IL 60047

RE: Long Grove Senior Living Facility
Landscape Narrative

Dear Dave,

I've reviewed the Landscape Narrative by David Heller of Heller & Associates, LLC, dated 7-30-14, and the Tree Inventory Listing by Andrew Lueck from SavATree for the proposed Long Grove Senior Living Facility. The following is a brief history and review of the recent submittals for this project.

In June of this year, I had met with the developer, Mr. Jordan Glazov, and his arborist, Mr. Andrew Lueck, from SavATree, to review the site and the tree inventory listing that Mr. Lueck had prepared. Although the rating system was slightly different from the rating system we employ, I had agreed with Mr. Lueck's rating of the existing trees on the site. In reviewing the concept plan overlay showing the existing trees, I had estimated that 268 of the 580 trees inventoried were protected trees in fair or better condition (based on the Village ordinance and Mr. Lueck's rating system), with a total of 4,409 inches that would be removed/impacted and require mitigation. I had recommended that since the conceptual plan was very general at this point, a site development plan with existing/proposed grades, utilities, construction access, tree protection/silt fencing and an early action plan by the arborist would need to be submitted for further review.

Mr. Glazov sent a letter dated June 18, 2014, requesting a waiver from mitigation requirements that the Village has been using for many years. I responded that our company and our reviews for the Village have always required protected trees in average/fair condition to be mitigated and that this waiver would have to be a policy change that the Village Board would need to review and determine. At this time, I had also recommended having the Village Board consider a reforestation plan using the protected species listed in the ordinance as the site constraints allow.

In July, Village Planner Jim Hogue and I met with Mr. Glazov, Mr. Lueck and the landscape architect, Mr. David Heller of Heller & Associates, to discuss options. In this meeting, it was discussed that it was almost impossible to plant the total number of mitigation plantings on this site after development was complete. In general, the recommendation was to develop a reforestation plan with a maximum amount of plantings without impacting the existing trees that were to be preserved.

Last week, Mr. Heller sent over a Landscape Narrative and Landscape Plan and Mr. Lueck sent a Tree Management Plan for the project. This Narrative still requests a waiver for the mitigation of trees rated with an average/fair condition. The Tree Management Plan shows that 104 trees are being preserved out of a total of 580 trees. The Landscape Plan shows 261 new 3" caliper trees being installed on site. Of these 261 trees being planted, 56 consist of protected tree species, which is 21% of all plantings proposed. The remaining 205 trees (or 79% of the new tree plantings) are species that are not

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protected trees. An additional 365 nursery whips, or seedlings, of protected trees are also proposed in several reforestation pockets throughout the site.

Under the Project-Related Forestry section of the Narrative, it states that "Ownership/Development will remove all trees with conditions of 0, 1 and 2. These trees will be removed from not only the proposed building envelope (construction zone), but also the protected areas surrounding the site and the marsh area...At the same time as these lower quality trees will be removed...". As previously stated, I am not in agreement that a tree in average/fair condition is considered lower quality and they should be mitigated when they are removed no matter where they are on the site.

The Narrative also lists several "extraordinary Forestry Management practices in order to preserve as much of the quality, existing trees as possible", such as tree protection fencing, clearing, grubbing and chipping of other vegetative areas to remove noxious and invasive species, root pruning, retaining wall construction and direct boring of utilities in several locations. These are commonly recommended tree preservation methods but I would not classify them as extraordinary on a wooded property where trees will be preserved.

The On-Going Forestry Management/Monitoring section of the Narrative and the Tree Management Plan for the 261 newly planted trees are generally acceptable but they should be refined as the plans get more specific. The maintenance of the 365 whips is not specifically addressed and these would have to be watered, pruned, etc. I would not put a definite time frame for these actions as woodland management should be employed during the life of the woodland.

An engineering plan should be submitted in order to determine that those trees shown as being preserved can actually be preserved.

Please call me if you have any questions.

Sincerely,
URBAN FOREST MANAGEMENT, INC.



Todd R. Sinn
Senior Forester

July 30, 2014

LANDSCAPE NARRATIVE

PROJECT:

Long Grove Senior Living Facility
Highway 53
Long Grove, IL

CLIENT:

Gart Partners, LLC
Jordan E Glazov
707 Skokie Blvd. Ste 100
Northbrook, IL 60062

PLAN COMMISSION / BOARD OF ZONING APPEALS SUBMITTAL

The project site consists of approximately 9.463 wooded acres location on Illinois Route 53 (Long Grove Road).

The site supports approximately 580 identified hardwood trees which have been located and identified by size (those with a DBH of 8" or more), species, and condition. The condition ratings are as follows:

- 0 = dead, severely diseased
- 1 = poor
- 2 = fair / average
- 3 = above average
- 4 = good

For the purposes of the landscape planning and attempting to meet the spirit of the Long Grove Tree Preservation Ordinance, trees with a condition rating of "0", "1", or "2" were not counted towards required mitigation for this project.

The tree inventory was compiled by SavaTree (Northbrook, Illinois), and according to the inventory provided, the following are present on the subject parcel:

Condition Rating	Number of Trees	Total Inches
4	80	1,437 DBH inches
3	332	5,147 DBH inches

Proposed Removals of Protected Trees (per Long Grove Tree Preservation Ordinance)

Condition Rating	# of Protected Trees	Total Inches
4	56	1,038 DBH inches
3	209	3,300 DBH inches

PROPOSED REPLACEMENT LANDSCAPING:

The landscape plans prepared attempt to replant species of Shade, Ornamental, and large deciduous shrubs that lend themselves well to what is a natural setting. To benefit the adjoining property owners, a significant number of evergreen trees are also being proposed to provide year-round buffering and screening of portions of the development.

The plan presented with this submittal includes:
(**bold selections** represent Protected Species)

QTY	SIZE	TYPE	TOTAL
95	3" DBH	Proposed Shade Trees Species include: <i>Red Maple, Autumn Blaze Maple, Green Mountain Sugar Maple, Chicagoland Hackberry, Skyline Honeylocust, Kentucky Coffee Tree, Swamp White Oak, Bur Oak, Northern Red Oak, Bald Cypress, Greenspire Linden.</i>	285 Total DBH inches
88	7-8 Tall	Proposed Ornamental Trees Species include: <i>Serviceberry, Redbud, Cornelian Cherry, Hawthorn, Crabapple, Ironwood, Flowering Pear, Japanese Tree Lilac.</i>	264 Total DBH (equivalent inches)
73	7-8' Tall	Evergreen Trees Species include: Fir, Spruce	219 Total DBH (equivalent inches)
Total DBH inches proposed for replanting on project:			768 Total DBH (equivalent inches)

Additionally, several reforestation zones have been identified, in which 3 year Nursery whips will be planted at approximately 42-48" on-center.

The total area of these reforestation "pockets" is approximately 3,000 SF, and is proposed to contain 365 nursery whips. All of the varieties specified are selected from the ***Protected Tree Species List***, and are composed of the following species:

<i>Carya ovata</i>	Shagbark Hickory
<i>Juglans cinerea</i>	Bitternit
<i>Prunus serotina</i>	Wild Black Cherry
<i>Quercus alba</i>	White Oak
<i>Tilia americana</i>	Basswood/ Linden

PROJECT ESTIMATE (LANDSCAPING)

With the extensive natural planting proposed for this development, the project installation estimate is anticipated to be at or near **\$235,000 - \$250,000** (cost estimate is attached)

This figure includes all plantings, bed preparation, planting, mulching, topsoil (fine grade establishment), native seed mixes, bioswale plantings, turf-grass establishment, and mulch.

While it is difficult to accurately compare one site to another without the benefit of an actual site development plan, it is believed that a "normal" landscape budget for a facility of this scope and scale would be budgeted for a total landscape development at or near **\$150,000.00**, making this site landscape development budget nearly double that of other similar projects that have been developed by Heller & Associates.

PROJECT-RELATED FORESTRY

As part of the overall landscape development of this project, the Ownership/Development will remove all trees with condition ratings of 0, 1 and 2. These trees will be removed from not only the proposed building envelope (construction zone), but also the "protected" areas surrounding the site and the marsh area at the northwest corner of the property.

At the same time as these lower-quality trees will be removed, invasive, non-native underbrush and noxious shrubs and vines will also be removed.

Removal of these trees and underbrush from the protected areas could be classified as extraordinary site development costs.

Estimate Tree Removal costs:	\$6,000 (3 crew days)
Estimate Underbrush removal costs:	\$2,000 (2 crew days)

SPECIAL FORESTRY PRACTICES/ MANAGEMENT

As part of the overall landscape development of this project, the Ownership/ Development team is committed to extraordinary Forestry Management practices in order to preserve as much of the quality, existing trees as possible. These practices include, but may not be limited to:

Resource Identification and Security: Prior to grading activities, identifying and protecting key trees for protection. This includes installation of TREE PROTECTION FENCING, as outlined in the landscape plan set.

Estimated Cost: \$7,500.00

Clearing, grubbing and chipping of other (non-valued) vegetative areas to remove noxious and invasive species, to create areas for new, more desired plant species.

Estimated Cost (above normal activities): \$5,000.00

Extraordinary Tree Protection Measures: Several Trees near the ring Fire Lane around the site have been deemed worthy of protection, even though they fall into the development pocket. Our landscape plans and TREE INVENTORY lists, identify several trees that should have additional measures attempted in an attempt to greatly reduce root-zone impaction during the installation of roads, curbs, and other site infrastructure. These measures include: Root-Pruning of trees (prior to grading); retaining wall construction (to alter proposed grades); and direct boring of the Forced Main and the Fire Protection water line in several tree locations.

Estimated Costs for Extraordinary Measures:

Root-Pruning (1 Arborist Crew 2 days):	\$5,000.00
Retaining Wall Construction:	\$1,500.00
Direct Boring of pipe/ lines:	\$5,000.00 (estimate)

On-Going Forestry Management / Monitoring: Annually, in the first 10 mid-springs, and early summers, the perimeter areas of the site shall be inspected by a Certified / Licensed Arborist and a Registered Landscape Architect to note the necessary management practices required to promote the health and vibrancy of the newly installed plantings. These notations and action plans shall be forwarded to the Landscape Contractor for specific execution of the Arborist/Landscape Architect plan of action. Activities may include, but are not limited to:

- Herbicide application to noxious weeds/invasive species
- Select Hand removal of noxious weeds/invasive species
- Re-seeding/over-seeding of natural prairie areas.
- Pruning/trimming of native area as noted
- Replacement of dead, diseased, dying plant materials

Estimated Costs for Extraordinary Management Measures:

Annual Inspections (years 1-5; each):	\$1,500.00	\$7,500.00
Annual Inspections (years 6-10; each):	\$1,000.00	\$5,000.00
Annual Inspections (years 11-20; each):	\$750.00	\$7,500.00

Estimated Cost for Extraordinary Management Measures:

Annual Construction / Forestry Work (years 1-5 each):	\$3,500.00	\$17,500.00
Annual Construction / Forestry Work (years 6-10, each):	\$2,500.00	\$12,500.00
Annual Construction / Forestry Work (years 11-20; each):	\$2,000.00	\$20,000.00

Total Estimated Costs Above:	\$352,000
Tree removal from developed area (estimate by Homer Co.):	\$ 50,000
Contingency (10%)	\$ 40,200
Total Forest / Landscaping Estimated Costs:	\$440,200

Heller & Associates, LLC
Plant & Material List

Date: 7/30/2014
Project: Geason Architects, P.C.
Long Grove Senior Care Facility
20735 Old Hole Road
Long Grove, IL 60047

Plan Dated: 7/23/2014
v604-1a 5A01
v604-1a 5A01



PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED		CALIPER SIZE	ROOT	SPECIFICATION / NOTES	MATURE SPREAD	COST ESTIMATE	
		BOTANICAL NAME	COMMON NAME					UNIT	TOTAL
Proposed Landscape Materials									
SHADE TREES (DECIDUOUS)									
ARM	3	Acer xfreemanii 'Armstrong'	Armstrong Red Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 1,350.00
ABM	13	Acer xfreemanii 'Autumn Blaze'	Autumn Blaze Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 4,875.00
RSM	9	Acer rubrum 'Red Sunset'	Red Sunset Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 3,375.00
GM5M	8	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 2,950.00
CH	7	Quercus occidentalis 'Chicagoland'	Chicagoland Highberry	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 2,625.00
SHL	9	Quercus laevis 'Shylar'	Shylar Honeylocust	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 3,375.00
KCT	18	Gymnocladia dioica	Kentucky Coffee Tree	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 8,100.00
SAC	14	Quercus bicolor	Swamp White Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 6,300.00
BO	4	Quercus macrocarpa	Bur Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 1,800.00
NRO	8	Quercus rubra	Northern Red Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 3,600.00
BC	2	Taxodium distichum	Bald Cypress	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 450.00	\$ 900.00
GL	2	Tilia cordata 'Greenspire'	Greenspire Linden	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 375.00	\$ 750.00
ORNAMENTAL TREES (DECIDUOUS)									
AS	17	Amselndier grandiflora	Apple Serviceberry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 330.00	\$ 5,610.00
BS	4	Amselndier canadensis	Serviceberry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 330.00	\$ 1,320.00
ER	11	Oreola canadensis	Eastern Redbud	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 330.00	\$ 3,630.00
CC	3	Cornus mas	Cornelian Cherry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 255.00	\$ 765.00
TCH	15	Crataegus crus-galli 'Inermis'	Thornless Odogary Hawthorn	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 255.00	\$ 3,825.00
ARC	12	Malus florida 'Adams'	Adams Flowering Crabapple	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 255.00	\$ 3,060.00
SFC	2	Malus florida 'Spring Snow'	Spring Snow Flowering Crabapple	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 255.00	\$ 510.00
IV	12	Ostrya virginiana	Ironwood	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 330.00	\$ 3,960.00
CP	4	Fyrus calleryana 'Chariclee'	Chariclee Flowering Pear	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting		\$ 330.00	\$ 1,320.00
JL	8	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance		\$ 285.00	\$ 2,280.00
EVERGREEN TREES									
CF	4	Abies concolor	Concolor Fir	7-8"	B&B	Evenly shaped tree with branching to the ground		\$ 375.00	\$ 1,500.00
NS	38	Picea abies	Norway Spruce	7-8"	B&B	Evenly shaped tree with branching to the ground		\$ 375.00	\$ 14,250.00
EHS	31	Picea densata 'glauca'	Black Hills Spruce	7-8"	B&B	Evenly shaped tree with branching to the ground		\$ 375.00	\$ 11,625.00
EVERGREEN SHRUBS									
GVB	14	Buxus 'Green Velvet'	Green Velvet Boxwood	15" HT	Cont.	Full rounded well branched shrub		\$ 75.00	\$ 1,050.00
NCPJ	52	Juniperus chinensis 'Kilgus'	Kilgus Compact Pfitzer Juniper	#6	Cont.	Full rounded well branched shrub		\$ 60.00	\$ 3,120.00
GSJ	3	Juniperus chinensis sargentii 'Viridis'	Green Sargent Juniper	#6	Cont.	Full rounded well branched shrub		\$ 60.00	\$ 180.00
TY	57	Taxus xmedia 'Tutuon'	Tutuon Intermediate Yew	24"	B&B	Full rounded well branched shrub		\$ 90.00	\$ 5,130.00
DECIDUOUS SHRUBS									
Ahz	24	Corylus americana	American Hazelnut	42"	B&B	Full, well rounded plant with moist rootball and healthy appearance		\$ 105.00	\$ 2,520.00
WW	7	Hammamelis vernalis	Vernal Witchhazel	42"	B&B	Full, well rounded plant with moist rootball and healthy appearance		\$ 105.00	\$ 735.00
OW	27	Hammamelis virginiana	Common Witchhazel	42"	B&B	Full, well rounded plant with moist rootball and healthy appearance		\$ 105.00	\$ 2,835.00
IH	86	Hydrangea arborescens 'Abetwo'	Incrediball Hydrangea	#6	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 5,160.00
UH	8	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	35"	Cont.	Full, well rooted plant, evenly shaped		\$ 90.00	\$ 720.00
LH	5	Hydrangea paniculata 'Little Lamb'	Little Lamb Hydrangea	24"	Cont.	Full, well rooted plant, evenly shaped		\$ 75.00	\$ 375.00
UH	24	Hydrangea paniculata 'Unique'	Unique Hydrangea	#6	Cont.	Full, well rooted plant, evenly shaped		\$ 80.00	\$ 1,920.00
DN	3	Rhus copallina 'Diablo'	Diablo Ninebark	30"	Cont.	Full, well rooted plant, evenly shaped		\$ 80.00	\$ 240.00
GMAC	13	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	#6	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 780.00
GLS	30	Rhus aromatica 'Gro-Low'	Gro Low Fragrant Sumac	#6	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 1,800.00
SH	53	Rhus typhina	Saghorn Sumac	42"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 3,180.00
NVSR	32	Rosa 'Nearly Wild'	Nearly Wild Shrub Rose	18"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 1,920.00
FRSR	30	Rosa rugosa 'Pink Pavement'	Pink Pavement Shrub Rose	18"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 1,800.00
GMS	3	Spiraea xbumalda 'Goldmound'	Goldmound Spirea	18"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 180.00
NRS	43	Spiraea xbumalda 'Neon Flash'	Neon Flash Spirea	24"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 2,580.00
KSJ	20	Viburnum cerasifolium	Fragrant Koreanop Viburnum	30"	Cont.	Full, well rooted plant, evenly shaped		\$ 90.00	\$ 1,800.00
AJV	48	Viburnum dentatum 'Autumn Jazz'	Autumn Jazz Arrowwood Viburnum	42"	Cont.	Full, well rooted plant, evenly shaped		\$ 75.00	\$ 3,600.00
MV	43	Viburnum lentum 'MoHear'	MoHear Viburnum	42"	B&B	Full, well rounded plant with moist rootball and healthy appearance		\$ 90.00	\$ 3,870.00
JRW	15	Wegelia florida 'Java Red'	Java Red Wegelia	24"	Cont.	Full, well rooted plant, evenly shaped		\$ 75.00	\$ 1,125.00
WRW	3	Wegelia florida 'Wine-N-Roses'	Wine-N-Roses Wegelia	24"	Cont.	Full, well rooted plant, evenly shaped		\$ 60.00	\$ 180.00

ORNAMENTAL GRASSES											
NFG	214	Calamagrostis scutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1	Cont.	Full, well rooted plant	8	\$	24.00	\$	5,136.00
CRG	33	Calamagrostis scutiflora 'Overdam'	Overdam Feather Reed Grass	#1	Cont.	Full, well rooted plant	8	\$	24.00	\$	792.00
HERBACEOUS PERENNIALS											
PBA	60	Astilbe rostrum 'Reach Blossom'	Reach Blossom Astilbe	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	900.00
JB	7	Brunnera macrophylla 'Jack Frost'	Jack Frost Brunnera	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	105.00
HRD	48	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	720.00
FRD	28	Hemerocallis 'Roy Returns'	Roy Returns Daylily	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	420.00
MDL	14	Hemerocallis 'Catherine Woodbury'	Catherine Woodbury Daylily (Soft Pink)	#1	Cont.	Full, well rooted plant, evenly shaped (mix three varieties)	5	\$	15.00	\$	210.00
MDL	14	Hemerocallis 'Hyperion'	Hyperion Daylily (Lemon Yellow)	#1	Cont.	Full, well rooted plant, evenly shaped (mix three varieties)	5	\$	15.00	\$	210.00
MDL	14	Hemerocallis 'Summer Wine'	Summer Wine Daylily (Maroon)	#1	Cont.	Full, well rooted plant, evenly shaped (mix three varieties)	5	\$	15.00	\$	210.00
MRCB	74	Huscheria 'Midnight Rose'	Midnight Rose Coralbells	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	1,110.00
FH	44	Hosta fortunei 'Frances'	Frances Hosta	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	690.00
CBS	27	Iris sibirica 'Caesar's Brother'	Caesar's Brother Siberian Iris	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	405.00
SD	12	Leucanthemum 'Alaska'	Alaska Shasta Daisy	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	160.00
CF	50	Mattaudia pennsylvanica	Catrich Fern	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	750.00
RS	3	Parovkia striplacifolia	Russian Sage	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	45.00
BES	33	Rudbeckia fulgida 'Goldsturm'	Black-eyed Susan	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	495.00
MNS	30	Salvia xaupeba 'May Night'	May Night Salvia	#1	Cont.	Full, well rooted plant, evenly shaped	5	\$	15.00	\$	450.00
NURSERY TREES WHIPS											
WHPS	182	Nursery Whips	2,910 SF	SF	h&h	2,910 SF	8	\$	24.00	\$	8,736.00
	36	Asplenium	Asplenium								
	36	Wisteria	Wisteria								
	36	Wisteria	Wisteria								
	36	Wisteria	Wisteria								
	36	Wisteria	Wisteria								
	36	Wisteria	Wisteria								
GROUNDCOVERS & VINES											
GCP	96	Rachyzandra terminalis 'Green Carpet'	Green Carpet Rachyzandra	3'	Pot	Full, well rooted plant	2	\$	5.25	\$	504.00
LAWN		Lawn Establishment Area / Grading Area	/ m&h		SF	Oedar Creek Premium Blue Tag Seed Mix (Ph: 888-313-6807)		\$	-	\$	5,000.00
	121500	Broton Matting for sloped seeded areas	/ m&h		SF	American Excelsior Company Carlex Net Free (or approved equal)		\$	0.08	\$	7,290.00
SCD		Sodded Areas (identified on plan)	664 sq. ft. sod		SF	Refresh out, weed free, Bluegrass Blend Sod; Water immediately after installation		\$	7.00	\$	-
SNM	13500	Stormwater / Economy Prairie Seed Mix	664 sq. ft. sod		SF			\$	-	\$	-
NATIVE BOWALE PLANTINGS											
	2225	Bowale Plantings	664 sq. ft. sod		SF	See Schedule for Plant Matrix		\$	2.00	\$	4,450.00
Hardscape Materials											
	220	Shredded Hardwood Mulch (3" depth)	2,200 cu. yd		CY			\$	75.00	\$	16,500.00
	145	Soil Amendments (2" depth)	1,450 cu. yd		CY			\$	75.00	\$	10,875.00
	750	Pulverized Topsoil (1" over lawn areas)	7,500 cu. yd		CY			\$	30.00	\$	22,500.00
	145	Pulverized Topsoil (2" over bed areas)	1,450 cu. yd		CY			\$	50.00	\$	7,250.00

* Landscape counts & quantities are provided as a service to the Landscape Contractor; Landscape Contractor is responsible for verifying these counts and quantities in order to provide a complete landscape installation as outlined on this Landscape Master Plan. In the event that a discrepancy occurs between this schedule and the Landscape Master Plan, the Landscape Master Plan, including the graphics and notations depicted therein, shall govern.

Seed Compositions:
 Oedar Creek Premium Blue Tag (Ph: 888-313-6807):
 10% Mid Atlantic Kentucky Bluegrass
 20% Merit Kentucky Bluegrass
 20% Bonnell Red Fescue
 20% Pennant Fine Perennial Ryegrass
 10% Atlas Kentucky Bluegrass
 10% Dragon Kentucky Bluegrass
 10% Palmer III Fine Perennial Ryegrass

Seed at rate of 3# per 1000 SF

\$ 236,648.00

Tree Inventory - Route 53 & Long Grove Road, Long Grove, IL, March 31, 2014

Tag#	Scientific	Common	DBH	Other Items	Condition
2	Celtis occidentalis	Hackberry	20		4
5	Acer saccharinum		23		4
8	Quercus macrocarpa	Bur oak	13		4
9	Juglans nigra	Black walnut	17		4
13	Quercus rubra	Red oak	13		4
14	Quercus rubra	Red oak	13		4
28	Quercus rubra	Red oak	21		4
28	Juglans nigra	Black walnut	13		4
29	Quercus rubra	Red oak	22		4
34	Quercus ellipsoidalis	Pin oak	11		4
35	Quercus ellipsoidalis	Pin oak	13		4
36	Quercus ellipsoidalis	Pin oak	21		4
37	Quercus ellipsoidalis	Pin oak	18		4
40	Quercus alba	White oak	13		4
42	Quercus rubra	Red oak	34		4
44	Quercus macrocarpa	Bur oak	24		4
47	Quercus macrocarpa	Bur oak	36		4
53	Juglans nigra	Black walnut	22		4
78	Quercus ellipsoidalis	Pin oak	14		4
82	Quercus ellipsoidalis	Pin oak	20		4
83	Quercus ellipsoidalis	Pin oak	18		4
84	Quercus ellipsoidalis	Pin oak	18		4
88	Quercus ellipsoidalis	Pin oak	14		4
91	Quercus ellipsoidalis	Pin oak	18		4
93	Juglans nigra	Black walnut	22		4
109	Quercus rubra	Red oak	14		4
105	Quercus ellipsoidalis	Pin oak	10		4
121	Quercus rubra	Red oak	13		4
125	Quercus rubra	Red oak	11		4
136	Quercus rubra	Red oak	24		4
143	Juglans nigra	Black walnut	13		4
151	Juglans nigra	Black walnut	11		4
164	Juglans nigra	Black walnut	10		4
174	Quercus rubra	Red oak	11		4
184	Quercus ellipsoidalis	Pin oak	13		4
191	Quercus rubra	Red oak	10		4
193	Quercus macrocarpa	Bur oak	15		4
196	Quercus rubra	Red oak	10		4
198	Quercus macrocarpa	Bur oak	13		4
199	Quercus rubra	Red oak	24		4
200	Quercus macrocarpa	Bur oak	16		4
218	Quercus alba	White oak	18		4
223	Quercus rubra	Red oak	21		4
227	Quercus rubra	Red oak	13		4
228	Quercus rubra	Red oak	17		4
229	Quercus rubra	Red oak	19		4
230	Quercus rubra	Red oak	16		4
234	Quercus rubra	Red oak	16		4
240	Quercus rubra	Red oak	12		4
242	Quercus rubra	Red oak	16		4
245	Quercus macrocarpa	Bur oak	32		4
254	Tilia americana	Basewood	11		4
262	Quercus macrocarpa	Bur oak	24		4
264	Quercus macrocarpa	Bur oak	32		4
265	Juglans nigra	Black walnut	19		4
275	Quercus alba	White oak	13		4
281	Juglans nigra	Black walnut	11		4
309	Quercus alba	White oak	15		4
314	Quercus macrocarpa	Bur oak	24		4

Action	Protected Species (Y/N)	Replacement Inches	Notes
tree to be saved		0	
tree to be saved		0	
tree to be saved		0	
Retaining wall; tree to be saved		0	Alter grading; Add retaining wall
tree to be removed	Yes	13	
tree to be removed	Yes	13	
tree to be removed	Yes	21	
tree to be removed	Yes	13	
tree to be removed	Yes	22	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	No	0	
cannot locate on map	No	0	
tree to be removed	Yes	13	
tree to be removed	Yes	34	
tree to be removed	Yes	24	
tree to be removed	Yes	36	
tree to be removed	Yes	22	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	No	0	
tree to be removed	Yes	22	
tree to be removed	No	0	
tree to be removed	Yes	10	
tree to be removed	Yes	13	
tree to be removed	Yes	11	
tree to be removed	Yes	10	
tree to be removed	Yes	11	
Directional Bore; tree to be saved	No	0	
tree to be removed	Yes	10	
tree to be removed	Yes	15	
tree to be removed	Yes	10	
tree to be removed	Yes	13	
tree to be removed	Yes	24	
tree to be removed	Yes	16	
tree to be removed	Yes	16	
tree to be removed	Yes	21	
tree to be removed	Yes	13	
tree to be removed	Yes	17	
tree to be removed	Yes	19	
tree to be removed	Yes	16	
Directional Bore; tree to be saved	No	0	
Directional Bore; tree to be saved	No	0	
tree to be removed	Yes	16	
tree to be removed	Yes	32	
tree to be saved		0	
tree to be removed	Yes	24	
tree to be removed	Yes	32	
tree to be removed	Yes	19	
tree to be removed	Yes	13	
tree to be removed	Yes	11	
tree to be removed	Yes	15	
tree to be removed	Yes	24	

Tag#	Scientific	Common	D&H	Other Stems	Condition	Action	Protected Species(Y/N)	Replacement Inches	Notes
90	Catalpa speciosa	Catalpa	18		3	tree to be removed		0	
94	Tilia americana	Basswood	11		3	tree to be removed	Yes	11	
95	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
97	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
99	Quercus ellipsoidalis	Pin oak	20		3	tree to be removed		0	
101	Prunus serotina	Black cherry	8		3	tree to be removed	Yes	8	
102	Prunus serotina	Black cherry	13		3	tree to be removed	Yes	13	
103	Juglans nigra	Black walnut	13		3	tree to be removed	Yes	13	
108	Prunus serotina	Black cherry	13		3	Directional Bore; tree to be saved		0	
109	Prunus serotina	Black cherry	10		3	Directional Bore; tree to be saved		0	19
111	Prunus serotina	Black cherry	14		3	Directional Bore; tree to be saved		0	
114	Prunus serotina	Black cherry	11	6	3	tree to be removed	Yes	11	
115	Prunus serotina	Black cherry	9		3	tree to be removed	Yes	9	20
117	Prunus serotina	Black cherry	11		3	tree to be removed	Yes	11	
118	Fraxinus pennsylvanica	Green ash	12		3	tree to be removed		0	
122	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
124	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
128	Quercus rubra	Red oak	10		3	tree to be removed	Yes	10	
128	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
129	Prunus serotina	Black cherry	8		3	tree to be removed	Yes	8	
130	Prunus serotina	Black cherry	8		3	tree to be removed	Yes	8	
131	Quercus rubra	Red oak	19		3	tree to be removed	Yes	19	
132	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	30
133	Juglans nigra	Black walnut	12		3	tree to be removed	Yes	12	
140	Quercus rubra	Red oak	19		3	tree to be removed	Yes	19	
141	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
146	Juglans nigra	Black walnut	10		3	tree to be saved		0	
147	Black walnut	Black walnut	8		3	tree to be saved		0	
148	Juglans nigra	Black walnut	11		3	tree to be saved		0	
148	Juglans nigra	Black walnut	25		3	tree to be saved		0	
153	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
154	Prunus serotina	Black cherry	8		3	tree to be removed	Yes	8	
155	Fraxinus pennsylvanica	Green ash	18		3	tree to be removed	No	0	
157	Prunus serotina	Black cherry	14		3	tree to be removed	Yes	14	
159	Juglans nigra	Black walnut	15		3	tree to be removed	Yes	15	
161	Fraxinus pennsylvanica	Green ash	11	8	3	tree to be removed	No	0	
163	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
168	Ulmus americana	American elm	18		3	tree to be removed	No	0	
167	Juglans nigra	Black walnut	9	8	3	tree to be removed	Yes	9	
168	Prunus serotina	Black cherry	11	9	3	tree to be removed	Yes	11	40
169	Prunus serotina	Black cherry	16	9	3	tree to be removed	Yes	16	
170	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
171	Prunus serotina	Black cherry	14		3	tree to be removed	Yes	14	
172	Prunus serotina	Black cherry	12		3	tree to be removed	Yes	12	
173	Fraxinus pennsylvanica	Green ash	14		3	tree to be removed	No	0	
176	Prunus serotina	Black cherry	8		3	tree to be saved		0	
177	Tilia americana	Basswood	12		3	tree to be removed	Yes	12	
180	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
189	Juglans nigra	Black walnut	8		3	tree to be removed	No	0	
189	Quercus ellipsoidalis	Pin oak	16		3	tree to be removed	No	0	
190	Quercus ellipsoidalis	Pin oak	13		3	tree to be removed	No	0	
194	Ulmus americana	American elm	14	10	3	tree to be removed	No	0	
201	Acer rubrum	Red maple	10	8,8	3	tree to be removed	No	0	
202	Quercus rubra	Red oak	11		3	tree to be removed	Yes	11	
205	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
208	Prunus serotina	Black cherry	11		3	tree to be removed	Yes	11	
208	Carya ovata	Shagbark hickory	11		3	tree to be removed	Yes	11	
208	Carya ovata	Shagbark hickory	11		3	tree to be removed	Yes	11	50
210	Quercus rubra	Red oak	12		3	Directional Bore; tree to be saved		0	
211	Prunus serotina	Black cherry	15		3	tree to be removed	Yes	15	

Tag#	Scientific	Common	DBH	Other Stems	Condition	Action	Protected Species(WN)	Replacement Inches	Notes
212	Juglans nigra	Black walnut	11	6	3	tree to be saved		0	
213	Quercus rubra	Red oak	12		3	tree to be saved		0	
214	Quercus rubra	Red oak	12		3	tree to be saved		0	
215	Fraxinus pennsylvanica	Green ash	14		3	tree to be saved		0	
216	Carya ovata	Shagbark hickory	14		3	Directional Bore; tree to be saved		0	
221	Quercus rubra	Red oak	13	13	3	tree to be removed	Yes	13	
222	Quercus rubra	Red oak	10	10	3	tree to be removed	Yes	10	
224	Prunus serotina	Black cherry	13		3	tree to be removed	Yes	13	
225	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
226	Prunus serotina	Black cherry	12		3	tree to be removed	Yes	12	
231	Carya ovata	Shagbark hickory	11		3	tree to be removed	Yes	11	
232	Prunus serotina	Black cherry	13		3	tree to be removed	Yes	13	
233	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
237	Quercus rubra	Red oak	18		3	tree to be saved	Yes	18	
238	Prunus serotina	Black cherry	8		3	tree to be saved	Yes	8	
238	Quercus rubra	Red oak	12		3	tree to be saved	Yes	12	
241	Quercus rubra	Red oak	12		3	tree to be removed	Yes	12	
243	Quercus ellipsoidalis	Pin oak	15		3	tree to be removed	No	0	
246	Tilia americana	Basswood	15		3	tree to be saved	Yes	15	
247	Quercus rubra	Red oak	17		3	tree to be saved	Yes	17	
251	Prunus serotina	Black cherry	15		3	tree to be saved	Yes	15	
255	Quercus rubra	Red oak	11		3	Directional Bore; tree to be saved		0	
256	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
257	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
258	Quercus rubra	Red oak	14		3	Directional Bore; tree to be saved		0	
260	Quercus macrocarpa	Bur oak	32		3	Directional Bore; tree to be saved		0	
261	Quercus macrocarpa	Bur oak	21		3	Directional Bore; tree to be saved		0	
263	Quercus rubra	Red oak	12		3	tree to be removed	Yes	12	
266	Quercus alba	White oak	13		3	tree to be removed	Yes	13	
267	Quercus macrocarpa	Bur oak	20		3	tree to be removed	Yes	20	
268	Quercus macrocarpa	Bur oak	28		3	tree to be removed	Yes	28	
268	Quercus rubra	Red oak	23		3	tree to be removed	Yes	23	
270	Prunus serotina	Black cherry	14		3	tree to be removed	Yes	14	
271	Quercus alba	White oak	27		3	tree to be removed	Yes	27	
273	Ulmus americana	American elm	14		3	tree to be removed	No	0	
274	Juglans nigra	Black walnut	24		3	tree to be removed	Yes	24	
276	Quercus ellipsoidalis	Pin oak	14		3	tree to be removed	No	0	
278	Prunus serotina	Black cherry	13	11	3	tree to be removed	Yes	13	
279	Quercus rubra	Red oak	19		3	tree to be removed	Yes	19	
280	Prunus serotina	Black cherry	14		3	tree to be removed	Yes	14	
282	Quercus alba	White oak	35		3	tree to be removed	Yes	35	
283	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
284	Quercus alba	White oak	10		3	tree to be removed	Yes	10	
285	Quercus alba	White oak	11		3	tree to be removed	Yes	11	
287	Fraxinus pennsylvanica	Green ash	13		3	tree to be removed	No	0	
288	Quercus alba	White oak	10		3	tree to be removed	Yes	10	
288	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
290	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
291	Quercus alba	White oak	14		3	tree to be removed	Yes	14	
293	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
294	Quercus alba	White oak	10		3	tree to be removed	Yes	10	
295	Prunus serotina	Black cherry	13		3	tree to be removed	Yes	13	
296	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
297	Prunus serotina	Black cherry	8		3	tree to be removed	Yes	8	
300	Quercus alba	White oak	13		3	tree to be removed	Yes	13	
301	Quercus rubra	Red oak	11		3	tree to be removed	Yes	11	
302	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
304	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
306	Prunus serotina	Black cherry	12		3	tree to be removed	Yes	12	
307	Quercus rubra	Red oak	24		3	tree to be removed	Yes	24	

Tag#	Scientific	Common	DBH	Other Stems	Condition	Action	Protected Species (Y/N)	Replacement Inches	Notes
310	Juglans nigra	Black walnut	9		3	tree to be removed	Yes	9	
311	Juglans nigra	Black walnut	23		3	tree to be removed	Yes	23	
312	Carya ovata	Shagbark hickory	24		3	tree to be removed	Yes	24	
313	Quercus macrocarpa	Bur oak	22		3	tree to be removed	Yes	22	
316	Quercus alba	White oak	26		3	tree to be removed	Yes	26	
316	Quercus macrocarpa	Bur oak	22		3	tree to be removed	Yes	22	
318	Ulmus americana	American elm	17		3	tree to be removed	No	0	
319	Quercus macrocarpa	Bur oak	19		3	tree to be removed	Yes	19	
320	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
321	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
322	Carya ovata	Shagbark hickory	16		3	tree to be removed	Yes	16	
323	Quercus rubra	Red oak	16		3	tree to be removed	Yes	16	
324	Carya cordiformis	Bitternut hickory	11		3	tree to be removed	Yes	11	
325	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
328	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
327	Quercus rubra	Red oak	10		3	tree to be removed	Yes	10	
328	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
330	Carya cordiformis	Bitternut hickory	12		3	tree to be removed	Yes	12	
332	Quercus macrocarpa	Bur oak	36		3	tree to be removed	Yes	36	
335	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
336	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
338	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
339	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
340	Quercus rubra	Red oak	19		3	tree to be removed	Yes	19	
341	Quercus rubra	Red oak	10		3	tree to be removed	Yes	10	
342	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
344	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
345	Catalpa speciosa	Catalpa	17		3	tree to be removed	No	0	
346	Juglans nigra	Black walnut	12		3	tree to be removed	Yes	12	
348	Quercus rubra	Red oak	16	17	3	Directional Bore; tree to be saved		0	
349	Acer rubrum	Red Maple	12		3	Directional Bore; tree to be saved		0	
352	Quercus rubra	Red oak	13		3	tree to be saved	Yes	13	
354	Juglans nigra	Black walnut	12		3	Directional Bore; tree to be saved		0	
355	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
356	Quercus macrocarpa	Bur oak	28		3	tree to be removed	Yes	28	
357	Quercus alba	White oak	28		3	tree to be removed	Yes	28	
358	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
359	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
360	Carya ovata	Shagbark hickory	15		3	tree to be removed	Yes	15	
361	Prunus serotina	Black cherry	12		3	tree to be removed	Yes	12	
362	Prunus serotina	Black cherry	9		3	tree to be removed	Yes	9	
363	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
364	Quercus macrocarpa	Bur oak	25		3	tree to be removed	Yes	25	
367	Tilia americana	Basewood	11		3	tree to be removed	Yes	11	
368	Tilia americana	Basewood	11		3	tree to be removed	Yes	11	
370	Juglans nigra	Black walnut	15		3	Directional Bore; tree to be saved		0	
371	Gleditsia triacanthos	Honeylocust	16		3	tree to be removed	No	0	
372	Tilia americana	Basewood	10		3	tree to be saved		0	
373	Catalpa speciosa	Catalpa	13		3	tree to be saved		0	
374	Quercus rubra	Red oak	10		3	tree to be saved		0	
375	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
376	Quercus rubra	Red oak	11		3	tree to be saved	Yes	11	
377	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
379	Tilia americana	Basewood	12		3	tree to be removed	Yes	12	
380	Quercus macrocarpa	Bur oak	29		3	tree to be removed	Yes	29	
381	Quercus macrocarpa	Bur oak	29		3	tree to be removed	Yes	29	
383	Quercus ellipsoidalis	Pin oak	15	13	3	Directional Bore; tree to be saved		0	
384	Juglans nigra	Black walnut	13		3	tree to be saved		0	
385	Quercus rubra	Red oak	12		3	Directional Bore; tree to be saved		0	
386	Quercus rubra	Red oak	12		3	Directional Bore; tree to be saved		0	

Tag#	Scientific	Common	DBH	Other Stems	Condition	Action	Protected Species (Y/N)	Replacement Inches	Notes
391	Juglans nigra	Black walnut	22		3	tree to be removed	Yes	22	
393	Quercus rubra	Red oak	10		3	tree to be removed	Yes	10	
394	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
398	Prunus serotina	Black cherry	11		3	tree to be removed	Yes	11	
398	Quercus rubra	Red oak	29		3	tree to be removed	Yes	29	
402	Fraxinus pennsylvanica	Green ash	16		3	tree to be saved		0	
404	Juglans nigra	Black walnut	9		3	tree to be saved		0	
407	Populus deltoides	Cottonwood	13		3	tree to be saved		0	
408	Gleditsia triacanthos	Honeylocust	11		3	tree to be saved		0	
412	Tilia americana	Basswood	12		3	tree to be saved		0	
413	Ulmus americana	American elm	16		3	tree to be saved		0	
415	Gleditsia triacanthos	Honeylocust	15		3	tree to be saved		0	
416	Populus deltoides	Cottonwood	18		3	tree to be saved		0	
420	Ulmus americana	American elm	20		3	tree to be saved		0	
421	Populus deltoides	Cottonwood	15		3	tree to be saved		0	
422	Juglans nigra	Black walnut	16		3	tree to be saved		0	
423	Juglans nigra	Black walnut	20		3	tree to be saved		0	
424	Ulmus americana	American elm	18		3	tree to be saved		0	
425	Ulmus americana	American elm	12		3	tree to be saved		0	
426	Tilia americana	Basswood	21		3	tree to be saved		0	
427	Carya ovata	Shagbark hickory	11		3	tree to be saved		0	
428	Quercus macrocarpa	Bur oak	25		3	tree to be removed	Yes	25	
430	Carya ovata	Shagbark hickory	11		3	tree to be saved		0	
431	Bitternut hickory	Bitternut hickory	9		3	tree to be saved		0	
437	Ulmus americana	American elm	12		3	tree to be saved		0	
438	Fraxinus pennsylvanica	Green ash	12		3	tree to be saved		0	
439	Quercus alba	White oak	22		3	Directional Bore; tree to be saved		0	
441	Prunus serotina	Black cherry	8		3	tree to be saved		0	
442	Quercus rubra	Red oak	30		3	tree to be saved		0	
443	Quercus rubra	Red oak	24		3	tree to be removed	Yes	24	
444	Quercus rubra	Red oak	24		3	tree to be saved		0	
445	Prunus serotina	Black cherry	10		3	tree to be saved		0	
448	Tilia americana	Basswood	11		3	Directional Bore; tree to be saved		0	
448	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
449	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
450	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
453	Quercus rubra	Red oak	18		3	tree to be removed	Yes	18	
455	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
456	Quercus rubra	Red oak	14		3	tree to be removed	Yes	14	
457	Juglans nigra	Black walnut	19		3	tree to be removed	Yes	19	
458	Ostrya occidentalis	Hackberry	9		3	tree to be removed	Yes	9	
461	Quercus rubra	Red oak	16		3	tree to be removed	Yes	16	
465	Quercus rubra	Red oak	13		3	tree to be removed	Yes	13	
467	Quercus rubra	Red oak	15	15	3	tree to be removed	Yes	15	
468	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
468	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
470	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
471	Carya ovata	Shagbark hickory	19		3	tree to be removed	Yes	19	
472	Carya ovata	Shagbark hickory	22		3	tree to be removed	Yes	22	
474	Juglans nigra	Black walnut	19		3	Directional Bore; tree to be saved		0	
475	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
476	Quercus rubra	Red oak	11		3	Directional Bore; tree to be saved		0	
478	Platanus occidentalis	Sycamore	17		3	Directional Bore; tree to be saved		0	
479	Quercus macrocarpa	Bur oak	23		3	tree to be removed		0	
482	Quercus rubra	Red oak	13		3	Directional Bore; tree to be saved		0	
483	Acer platanoides	Norway maple	24		3	tree to be removed	No	0	
488	Acer platanoides	Norway maple	16		3	tree to be removed	No	0	
492	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
493	Tilia americana	Basswood	12		3	tree to be removed	Yes	12	
494	Quercus rubra	Red oak	19		3	tree to be removed	Yes	19	

Tag #	Scientific	Common	DBH	Other Stems	Condition	Action	Protected Species (Y/N)	Replacement Inches	Notes
495	Quercus alba	White oak	29		3	tree to be removed	Yes	29	
496	Quercus rubra	Red oak	34		3	tree to be removed	Yes	34	
497	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
503	Quercus alba	White oak	35		3	tree to be removed	Yes	35	
504	Quercus rubra	Red oak	12		3	tree to be removed	Yes	12	
505	Fraxinus pennsylvanica	Green ash	18		3	tree to be removed	No	0	
506	Quercus rubra	Red oak	23		3	tree to be removed	Yes	23	
507	Tilia americana	Basswood	11		3	tree to be removed	Yes	11	
508	Tilia americana	Basswood	11	6	3	tree to be removed	Yes	11	
510	Quercus rubra	Red oak	21		3	tree to be removed	Yes	21	
511	Quercus rubra	Red oak	17		3	tree to be removed	Yes	17	
512	Quercus rubra	Red oak	21		3	tree to be removed	Yes	21	
513	Tilia americana	Basswood	15		3	tree to be removed	Yes	15	
514	Prunus serotina	Black cherry	10		3	tree to be removed	Yes	10	
516	Juglans nigra	Black walnut	19		3	tree to be removed	Yes	19	
518	Ulmus americana	American elm	21		3	tree to be removed	No	0	
519	Catalpa speciosa	Catalpa	12		3	tree to be removed	No	0	
521	Quercus rubra	Red oak	12		3	tree to be removed	Yes	12	
524	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
531	Gleditsia triacanthos	Honeylocust	12		3	tree to be removed	No	0	
532	Quercus rubra	Red oak	20	18	3	tree to be removed	Yes	20	
533	Quercus rubra	Red oak	20		3	tree to be removed	Yes	20	
534	Tilia americana	Basswood	12	10, 6.5	3	tree to be removed	Yes	12	
537	Quercus rubra	Red oak	21		3	tree to be removed	Yes	21	
541	Acer platanoides	Norway maple	23		3	tree to be saved		0	
542	Tilia americana	Basswood	11	8.8	3	tree to be saved		0	
545	Juglans nigra	Black walnut	15		3	tree to be removed	Yes	15	
546	Quercus rubra	Red oak	15		3	tree to be removed	Yes	15	
549	Prunus serotina	Black cherry	11		3		Yes	11	
550	Tilia americana	Basswood	12	9	3	tree to be saved	No	0	
551	Quercus rubra	Red oak	16		3	tree to be saved	Yes	16	
552	Catalpa speciosa	Catalpa	16		3	tree to be removed	No	0	
553	Prunus serotina	Black cherry	13		3	tree to be removed	Yes	13	
554	Tilia americana	Basswood	17		3	tree to be saved		0	
555	Prunus serotina	Black cherry	12		3	tree to be removed	Yes	12	
557	Gleditsia triacanthos	Honeylocust	16		3	Root prune; tree to be saved		0	
558	Carya ovata	Shagbark hickory	10		3	tree to be removed	Yes	10	
559	Prunus serotina	Black cherry	11		3	tree to be removed	Yes	11	
560	Quercus ellipsoidalis	Pin oak	15		3	tree to be removed	No	0	
561	Quercus rubra	Red oak	16		3	tree to be removed	Yes	16	
562	Catalpa speciosa	Catalpa	20		3	tree to be removed	No	0	
564	Robinia pseudoacacia	Black locust	18		3	tree to be removed	No	0	
565	Tilia americana	Basswood	20	16	3	tree to be removed	Yes	20	
566	Robinia pseudoacacia	Black locust	12		3	tree to be removed	No	0	
569	Robinia pseudoacacia	Black locust	13		3	tree to be removed	No	0	
572	Catalpa speciosa	Catalpa	20		3	Root prune; tree to be saved	No	0	
575	Tilia americana	Basswood	10		3	tree to be removed	Yes	10	
578	Tilia americana	Basswood	18		3	tree to be removed	Yes	18	
579	Catalpa speciosa	Catalpa	17		3	tree to be removed	No	0	
580	Quercus rubra	Red oak	22	8	3	tree to be removed	Yes	22	
583	Tilia americana	Basswood	13		3	tree to be removed	Yes	13	
584	Platanus occidentalis	Sycamore	13		3	tree to be removed	No	0	
585	Juglans nigra	Black walnut	16		3	tree to be removed	Yes	16	
586	Tilia americana	Basswood	13	9	3	tree to be removed	Yes	13	
588	Tilia americana	Basswood	12	5	3	tree to be removed	Yes	12	
589	Catalpa speciosa	Catalpa	20		3	tree to be removed	No	0	
			5147						

175

200

209

3,300.00 TOTAL REPLACEMENT INCHES (3 - RATED TREES)



Heller & Associates, LLC
Plant & Material List

Date: 7/30/2014
 Project: Gleason Architects, P.C.
 Long Grove Senior Care Facility
 20735 Old Hills Road
 Long Grove, IL 60047

Plan Dated: 7/23/2014
 Revision Date: 7/30/2014
 Revision Date:

Proposed Landscape Materials

PLANT KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	CALIPER SIZE	ROOT	SPECIFICATION / NOTES	MATURE SPREAD		COST ESTIMATE	
							UNIT	TOTAL		
SHADE TREES (DECIDUOUS)										
ARM	3	Acer xfreemanii 'Armstrong'	Armstrong Red Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 1,350.00
ABM	13	Acer xfreemanii 'Autumn Blaze'	Autumn Blaze Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 4,875.00
RSM	9	Acer rubrum 'Red Sunset'	Red Sunset Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 3,375.00
GMSM	6	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 2,250.00
CH	7	Celtis occidentalis 'Chicagoland'	Chicagoand Hackberry	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 2,625.00
SHL	9	Gleditsia triacanthos 'Skyline'	Skyline Honeylocust	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 3,375.00
KCT	18	Gymnocladus dioica	Kentucky Coffee Tree	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 8,100.00
SWO	14	Quercus bicolor	Swamp White Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 6,300.00
BO	4	Quercus macrocarpa	Bur Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 1,800.00
NIO	8	Quercus rubra	Northern Red Oak	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 3,600.00
BC	2	Taxodium distichum	Bald Cypress	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	450.00	\$ 900.00
GSL	2	Tilia cordata 'Greenspire'	Greenspire Linden	3.0"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	375.00	\$ 750.00
ORNAMENTAL TREES (DECIDUOUS)										
AS	17	Amelanchier grandiflora	Apple Serviceberry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	330.00	\$ 5,610.00
S5	4	Amelanchier canadensis	Serviceberry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	330.00	\$ 1,320.00
ER	11	Cercis canadensis	Eastern Redbud	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	300.00	\$ 3,630.00
CC	3	Cornus mas	Cornelian Cherry	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	255.00	\$ 765.00
TCB	15	Crataegus crus-galli 'Inermis'	Thornless Cockspur Hawthorn	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	255.00	\$ 3,825.00
AFC	12	Malus florida 'Adams'	Adams Flowering Crabapple	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	255.00	\$ 3,060.00
SSC	2	Malus florida 'Spring Snow'	Spring Snow Flowering Crabapple	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	255.00	\$ 510.00
IV	12	Ostrya virginiana	Ironwood	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	300.00	\$ 3,960.00
CPP	4	Prunus callemyana 'Chanticleer'	Chanticleer Flowering Pear	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting	#	\$	330.00	\$ 1,320.00
JTL	8	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	7-8"	B&B	Well balanced multi-stemmed tree with minimum four canes, and full appearance	#	\$	285.00	\$ 2,280.00
EVERGREEN TREES										
CF	4	Abies concolor	Concolor Fir	7-8"	B&B	Evenly shaped tree with branching to the ground	#	\$	375.00	\$ 1,500.00
NS	38	Picea abies	Norway Spruce	7-8"	B&B	Evenly shaped tree with branching to the ground	#	\$	375.00	\$ 14,250.00
BHS	31	Picea densata 'glauca'	Black Hills Spruce	7-8"	B&B	Evenly shaped tree with branching to the ground	#	\$	375.00	\$ 11,625.00
EVERGREEN SHRUBS										
GBA	14	Buxus 'Green Velvet'	Green Velvet Boxwood	15" HT	Cont.	Full rounded well branched shrub	#	\$	75.00	\$ 1,050.00
KCPJ	52	Juniperus chinensis 'Kalkley'	Kalkley Compact Pfitzer Juniper	#5	Cont.	Full rounded well branched shrub	#	\$	60.00	\$ 3,120.00
GSI	3	Juniperus chinensis sargentii 'Viridis'	Taunton Intermediate View	#5	Cont.	Full rounded well branched shrub	#	\$	60.00	\$ 180.00
TIV	57	Taxus xmedea 'Tautoni'	Taunton Intermediate View	24"	B&B	Full rounded well branched shrub	#	\$	90.00	\$ 5,130.00
DECIDUOUS SHRUBS										
ANZ	24	Corylus americana	American Hazelnut	42"	B&B	Full, well rounded plant with moist rodball and healthy appearance	#	\$	105.00	\$ 2,520.00
VW	7	Hamelis vernalis	Vernal Witchhazel	42"	B&B	Full, well rounded plant with moist rodball and healthy appearance	#	\$	105.00	\$ 735.00
CW	27	Hamelis virginiana	Common Witchhazel	42"	B&B	Full, well rounded plant with moist rodball and healthy appearance	#	\$	105.00	\$ 2,835.00
IH	98	Hydrangea arborescens 'Aberwo'	Incrediball Hydrangea	#5	Cont.	Full, well rounded plant, evenly shaped	#	\$	60.00	\$ 5,880.00
LH	8	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	36"	Cont.	Full, well rooted plant, evenly shaped	#	\$	90.00	\$ 720.00
UH	5	Hydrangea paniculata 'Little Lamb'	Little Lamb Hydrangea	24"	Cont.	Full, well rooted plant, evenly shaped	#	\$	375.00	\$ 1,875.00
UH	24	Hydrangea paniculata 'Unique'	Unique Hydrangea	#5	Cont.	Full, well rooted plant, evenly shaped	#	\$	90.00	\$ 2,160.00
DN	3	Physocarpus opulifolius 'Diablo'	Diablo Ninebark	30"	Cont.	Full, well rooted plant, evenly shaped	#	\$	90.00	\$ 270.00
GMAC	13	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	#5	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 780.00
GIS	30	Rhus aromatica 'Gro-Low'	Gro Low Fragrant Sumac	#5	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 1,800.00
SIS	53	Rhus typhina	Staghorn Sumac	42"	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 1,920.00
NWSR	32	Rosa 'Nearly Wild'	Nearly Wild Shrub Rose	18"	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 1,800.00
PRSR	30	Rosa rugosa 'Pink Pavement'	Pink Pavement Shrub Rose	18"	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 1,800.00
GMS	3	Spiraea xjournale 'Goldround'	Goldround Spiraea	18"	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 2,580.00
NFS	43	Spiraea xjournale 'Neon Flash'	Neon Flash Spiraea	24"	Cont.	Full, well rooted plant, evenly shaped	#	\$	90.00	\$ 3,870.00
KSV	20	Viburnum carlesii	Fragrant Spice Viburnum	30"	Cont.	Full, well rooted plant, evenly shaped	#	\$	90.00	\$ 3,600.00
AJAV	48	Viburnum dentatum 'Autumn Jazz'	Autumn Jazz Arrowwood Viburnum	42"	Cont.	Full, well rooted plant, evenly shaped	#	\$	75.00	\$ 3,600.00
MV	43	Viburnum bantana 'Mokkan'	Mokkan Viburnum	42"	B&B	Full, well rounded plant with moist rodball and healthy appearance	#	\$	90.00	\$ 3,870.00
JRW	15	Wigelia florida 'Java Red'	Java Red Wigelia	24"	Cont.	Full, well rooted plant, evenly shaped	#	\$	75.00	\$ 1,125.00
WNW	3	Wigelia florida 'Wine-N-Roses'	Wine-N-Roses Wigelia	24"	Cont.	Full, well rooted plant, evenly shaped	#	\$	60.00	\$ 180.00

Forest Management & Landscaping Program Costs

Extraordinary Construction Period Measures:

Resource Identification and Protection:	\$ 7,500
Tree and Underbrush Removal costs:	\$ 55,000
Root-Pruning:	\$ 8,000
Retaining Wall Construction:	\$ 1,500
Direct Boring of pipe/lines:	\$ 5,000
Arborist Inspections (12 months @ \$600/month):	\$ 7,200

Extraordinary Planting: Trees, shrubs, etc.: \$160,000

Extraordinary Forest Management Inspection Program:

Annual Inspections (years 1-5; each): \$1,500	\$ 7,500
Annual Inspections (years 6-10; each): \$1,000	\$ 5,000
Annual Inspections (years 11-20; each): \$750	\$ 7,500

Extraordinary Forest Management Maintenance Program:

Annual Construction / Forestry Work (years 1-5 each): \$7,500	\$ 37,500
Annual Construction / Forestry Work (years 6-10, each): \$7,000.00	\$ 35,000
Annual Construction / Forestry Work (years 11-20; each): \$4,000.00	\$ 40,000

Extraordinary Costs Subtotal: \$376,700
Contingency (10%): \$ 37,670

Total Extraordinary Costs: **\$414,370**

Normal Tree Removal from graded area (estimate by Homer Co.): \$ 50,000
Normal Landscape Budget (Estimate by Novak Construction): \$ 90,000
Contingency (10%) \$ 14,000
Total Normal Tree removal & Landscaping Costs: **\$154,000**

Total Extraordinary and Normal Cost: **\$568,370**

Pre-Construction

The following will be defined for all trees:

Tree protection zone - Defined as a radial distance of 1 foot per inch in tree diameter. No construction activity or storage shall take place within the tree protection zone.

Potential conflicts - e.g. root zone impedance, compaction, crown interference, etc.

Suitability for conservation: A rating system than combines tree health and structure, species tolerance of development activities and future value contribution of the tree to the property.

The following actions will be performed on an as-needed basis to help ensure tree health prior to construction:

Crown pruning - Trees will be pruned to promote health and proper structure and to provide clearance for construction activities. Crown pruning specifications will be detailed for individual trees during site review after final site plan approval.

Root Pruning - Trees whose roots extend into the construction zone will have their roots pruned at the edge of the zone to prevent root damage during construction.

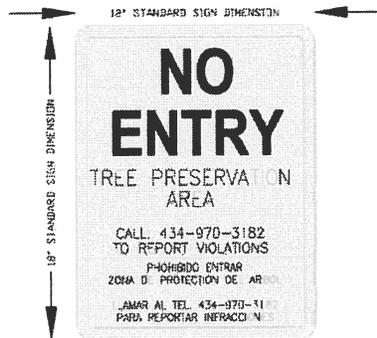
Irrigation - Trees will be irrigated before construction to ensure plant health.

Pest Management - Trees will be treated for significant pests that threaten tree health.

Mulch - Shredded hardwood, free of deleterious materials. Mulch should be spread within the Tree Protection Zone prior to construction to a four to six inch depth, leaving the trunk clear of mulch. This will aid in inadvertent soil compaction and moisture loss.

Temporary fencing (4 feet high) shall be installed at the edge of all tree protection zones. Fence shall completely encircle the tree.

Signage - Stating "No Entry, Tree Preservation Area" shall be placed along temporary fencing.



Construction

Inspections: Trees should be inspected by arborist at least monthly to ensure tree preservation standards are adhered to. If arborist finds that standards are not being followed, appropriate corrective action can be prescribed at that time.

Utilities: Where utility trenches are required near tree protection zones, tunnel under or around roots by drilling, auger boring, pipe jacking, or digging by hand around individual roots to mitigate damage to the root system and tree.

Grade changes: Grade changes within the Tree Protection Zone are not permitted without prior approval. Grade changes outside the Tree Protection Zone shall not significantly alter drainage. Grade changes under specifically approved circumstances shall not allow more than 6 inches of fill soil or allow more than 4 inches of existing soil to be removed from natural grade, unless mitigated.

Root damage: Roots damaged during construction will be repaired with a clean, straight cut to remove the damaged portion. All exposed roots should be covered with soil and mulch as soon as possible to prevent drying.

Limb damage: Prune according to ANSI A300 standards. Prune dying branches to reduce insect and disease damage to the rest of the tree. Also prune to reduce any hazardous conditions on preserved trees.

Tree Protection Zone

Activities prohibited within the Tree Protection Zone include:

- Parking vehicles or equipment, storage of building materials, refuse, or excavated soils, or dumping poisonous material on or around trees and roots. Poisonous materials include, but are not limited to paint, petroleum products, concrete, stucco mix, dirty water or any material that may be harmful to tree health.
- The use of tree trunks as a backstop, winch support, anchorage, as a temporary power pole, signpost or other similar function.
- Cutting of tree roots by utility trenching, foundation digging, placement of curbs and trenches, or other miscellaneous excavations without prior approval of the project arborist
- Soil disturbance, drainage or grade change.
- No machinery or equipment shall be used within the protection fence. Work within the protection zone shall be done manually.

Note: See tree protection drawings for specifics on tree protection fencing.

Post - Construction

The goal of post-construction care is to maintain the health and structural integrity of all trees on the site. Management will be focused on trees near buildings and areas disturbed for construction. Trees in wooded areas will be monitored mainly for safety and structural issues.

Landscaped Areas

Inventory

The inventory of trees on the property should be kept up to date when trees are planted or removed so that it can accurately influence management decisions.

Health Care

Tree health care practices include the following:

Integrated Pest Management

Integrated pest management (IPM) involves the use of a combination of methods to control pests that could potentially harm trees. Methods might include treatment, cultural controls, no action, tree pruning, etc. Monitoring, combined with an understanding of pest life cycles can be used to prescribe appropriate treatment actions. In the case where treatments are made to suppress an insect or disease infestation, biological controls should be favored over pesticides. An ISA Certified Arborist should inspect the property, with a focus on newly planted trees at least 4 times yearly.

Fertilization/Soil Amendments

In the case where tree health is impacted by the quality and content of its soil, amendments to the soil may be made to improve the condition of the tree. Amendments may include fertilization, pH modification, drainage improvement, etc. Soil sampling should be performed before any amendments are made to determine the soil characteristics of the site and amendments needed. Soil samples should be taken from at least two locations - near newly landscaped areas and in undisturbed/forested areas.

Irrigation

Trees should be watered to ensure their health and vigor. Any trees showing signs of water stress (leaf browning, wilting, etc.) should be watered as resources allow.

Pruning

All pruning shall conform to ANSI A300 standards. Tree pruning should be preventive rather than reactionary so as to minimize structural and safety issues early on. Proper pruning can lead to reduction in storm damage and safety issues in the future.

1. Young trees. Pruning young trees frequently will help prevent structural problems in the future. The goals of young tree pruning include promoting a strong central leader and proper branch spacing.
2. Semi-mature trees. Semi-mature trees should be pruned to promote proper structure and to alleviate safety and aesthetic

RW - Retaining Wall RP - Root Prune CP - Crown Prune GR - Growth Regulator PM - Pest Management SM - Soil Management

ID	Scientific	Common	DBH	Cond.	TPZ	Treatment
1	<i>Celtis occidentalis</i>	Hackberry	19	3	19	
2	<i>Celtis occidentalis</i>	Hackberry	20	4	20	RW
3	<i>Prunus serotina</i>	Black cherry	10	3	10	
4	<i>Juglans nigra</i>	Black walnut	9	3	9	
5	<i>Acer saccharinum</i>	Sugar maple	23	4	23	
8	<i>Quercus macrocarpa</i>	Bur oak	13	4	13	
9	<i>Juglans nigra</i>	Black walnut	17	4	17	
17	<i>Prunus serotina</i>	Black cherry	13	3	13	
18	<i>Prunus serotina</i>	Black cherry	10	3	10	
19	<i>Prunus serotina</i>	Black cherry	13	3	13	
20	<i>Prunus serotina</i>	Black cherry	11	3	11	DB
66	<i>Juglans nigra</i>	Black walnut	24	3	24	DB
69	<i>Prunus serotina</i>	Black cherry	8	3	8	DB
70	<i>Prunus serotina</i>	Black cherry	16	3	16	
74	<i>Prunus serotina</i>	Black cherry	10	3	10	
108	<i>Prunus serotina</i>	Black cherry	13	3	13	
109	<i>Prunus serotina</i>	Black cherry	10	3	10	
111	<i>Prunus serotina</i>	Black cherry	14	3	14	
146	<i>Juglans nigra</i>	Black walnut	10	3	10	DB
147	<i>Back walnut</i>	Back walnut	8	3	8	
148	<i>Juglans nigra</i>	Black walnut	11	3	11	
149	<i>Juglans nigra</i>	Black walnut	25	3	25	
176	<i>Prunus serotina</i>	Black cherry	8	3	8	
184	<i>Quercus ellipsoidalis</i>	Pin oak	13	4	13	DB
210	<i>Quercus rubra</i>	Red oak	12	3	12	
212	<i>Juglans nigra</i>	Black walnut	11	3	11	
213	<i>Quercus rubra</i>	Red oak	12	3	12	
214	<i>Quercus rubra</i>	Red oak	12	3	12	
215	<i>Fraxinus pennsylvanica</i>	Green ash	14	3	14	
216	<i>Carya ovata</i>	Shagbark hickory	14	3	14	
234	<i>Quercus rubra</i>	Red oak	16	4	16	DB
237	<i>Quercus rubra</i>	Red oak	18	3	18	DB
238	<i>Prunus serotina</i>	Black cherry	8	3	8	DB

ID	Scientific	Common	DBH	Cond.	TPZ	Treatment
239	<i>Quercus rubra</i>	Red oak	12	3	12	DB
240	<i>Quercus rubra</i>	Red oak	12	4	12	DB
246	<i>Tilia americana</i>	Basswood	15	3	15	
247	<i>Quercus rubra</i>	Red oak	17	3	17	DB
248	<i>Prunus serotina</i>	Black cherry	14	2		
249	<i>Prunus serotina</i>	Black cherry	8	2		
251	<i>Prunus serotina</i>	Black cherry	15	3	15	DB
252	<i>Prunus serotina</i>	Black cherry	14	2		
253	<i>Prunus serotina</i>	Black cherry	9	2		
254	<i>Tilia americana</i>	Basswood	11	4	11	
255	<i>Quercus rubra</i>	Red oak	11	3	11	
258	<i>Quercus rubra</i>	Red oak	14		14	
260	<i>Quercus macrocarpa</i>	Bur oak	32	3	32	DB
261	<i>Quercus macrocarpa</i>	Bur oak	21	3	21	
348	<i>Quercus rubra</i>	Red oak	18	3	18	DB
349	<i>Acer rubrum</i>	Red maple	12	2		
350	<i>Juglans nigra</i>	Black walnut	11	4	11	
352	<i>Quercus rubra</i>	Red oak	13	3	13	
354	<i>Juglans nigra</i>	Black walnut	12	3	12	
370	<i>Juglans nigra</i>	Black walnut	15	3	15	
372	<i>Tilia americana</i>	Basswood	10	3	10	
373	<i>Catalpa speciosa</i>	Catalpa	13	3	13	
374	<i>Quercus rubra</i>	Red oak	10	2		
376	<i>Quercus rubra</i>	Red oak	11	3	11	
383	<i>Quercus ellipsoidalis</i>	Pin oak	15		15	
384	<i>Juglans nigra</i>	Black walnut	13	3	13	
385	<i>Quercus rubra</i>	Red oak	12	3	12	
386	<i>Quercus rubra</i>	Red oak	12	3	12	
402	<i>Fraxinus pennsylvanica</i>	Green ash	16	3	16	
404	<i>Juglans nigra</i>	Black walnut	9	3	9	
407	<i>Populus deltoides</i>	Cottonwood	13	3	13	
408	<i>Gleditsia triacanthos</i>	Honeylocust	1	3	1	
412	<i>Tilia americana</i>	Basswood	12	3	12	

RW - Retaining Wall RP - Root Prune CP - Crown Prune GR - Growth Regulator PM - Pest Management SM - Soil Management

ID	Scientific	Common	DBH	Cond.	TPZ	Treatment
413	<i>Ulmus americana</i>	American elm	16	3	16	
415	<i>Gleditsia triacanthos</i>	Honeylocust	15	3	15	
416	<i>Populus deltoides</i>	Cottonwood	16	3	16	
420	<i>Ulmus americana</i>	American elm	20	3	20	
421	<i>Populus deltoides</i>	Cottonwood	15	3	15	DB
422	<i>Juglans nigra</i>	Black walnut	16	3	16	
423	<i>Juglans nigra</i>	Black walnut	20	3	20	
424	<i>Ulmus americana</i>	American elm	16	3	16	
425	<i>Ulmus americana</i>	American elm	12	3	12	
426	<i>Tilia americana</i>	Basswood	21	3	21	DB
427	<i>Carya ovata</i>	Shagbark hickory	11	3	11	
429	<i>Quercus macrocarpa</i>	Bur oak	34	4	34	DB
430	<i>Carya ovata</i>	Shagbark hickory	11	3	11	DB
431	<i>Bitternut hickory</i>	Bitternut hickory	9	3	9	
437	<i>Ulmus americana</i>	American elm	12	3	12	DB
438	<i>Fraxinus pennsylvanica</i>	Green ash	12	3	12	RW
439	<i>Quercus alba</i>	White oak	22	3	22	
441	<i>Prunus serotina</i>	Black cherry	8	3	8	
442	<i>Quercus rubra</i>	Red oak	30	3	30	
444	<i>Quercus rubra</i>	Red oak	24	3	24	
445	<i>Prunus serotina</i>	Black cherry	10	3	10	
446	<i>Tilia americana</i>	Basswood	11	3		
474	<i>Juglans nigra</i>	Black walnut	19	3	19	
476	<i>Quercus rubra</i>	Red oak	11	3	11	RP
478	<i>Platanus occidentalis</i>	Sycamore	17	3	17	
479	<i>Quercus macrocarpa</i>	Bur oak	23	3	23	
482	<i>Quercus rubra</i>	Red oak	13	3	13	
516	<i>Juglans nigra</i>	Black walnut	19	3	19	RW
518	<i>Ulmus americana</i>	American elm	21	3	21	
528	<i>Carya ovata</i>	Shagbark hickory	20	4	20	DB
541	<i>Acer platanoides</i>	Norway maple	23	3	23	DB
542	<i>Tilia americana</i>	Basswood	11	3	11	
551	<i>Quercus rubra</i>	Red oak	16	3	16	

ID	Scientific	Common	DBH	Cond.	TPZ	Treatment
554	<i>Tilia americana</i>	Basswood	17	3	17	
555	<i>Prunus serotina</i>	Black cherry	12	3	12	
557	<i>Gleditsia triacanthos</i>		16	3	16	
572	<i>Catalpa speciosa</i>	Catalpa	20	3	20	RP
576	<i>Carya ovata</i>	Shagbark hickory	10	4	10	RP