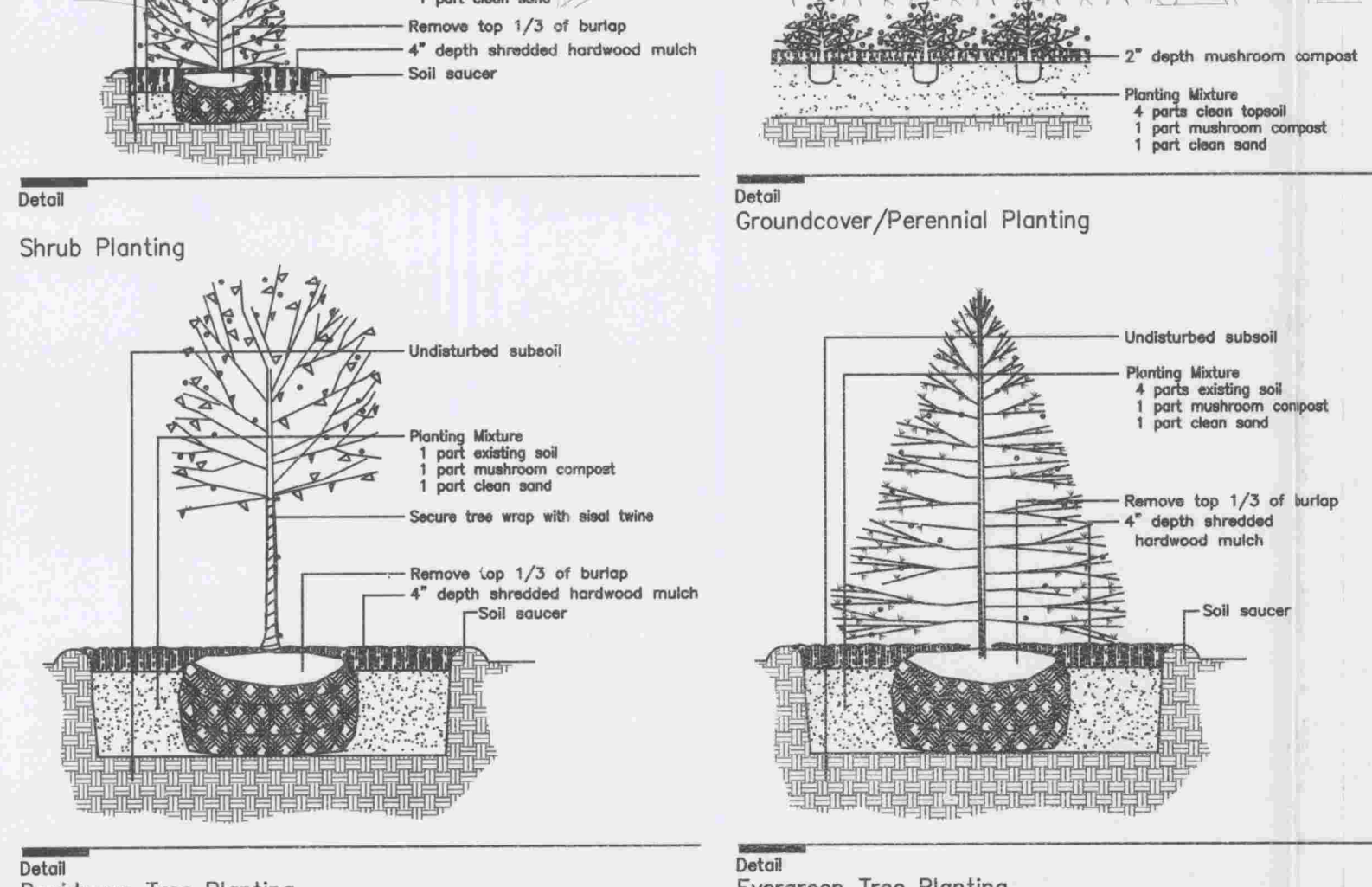
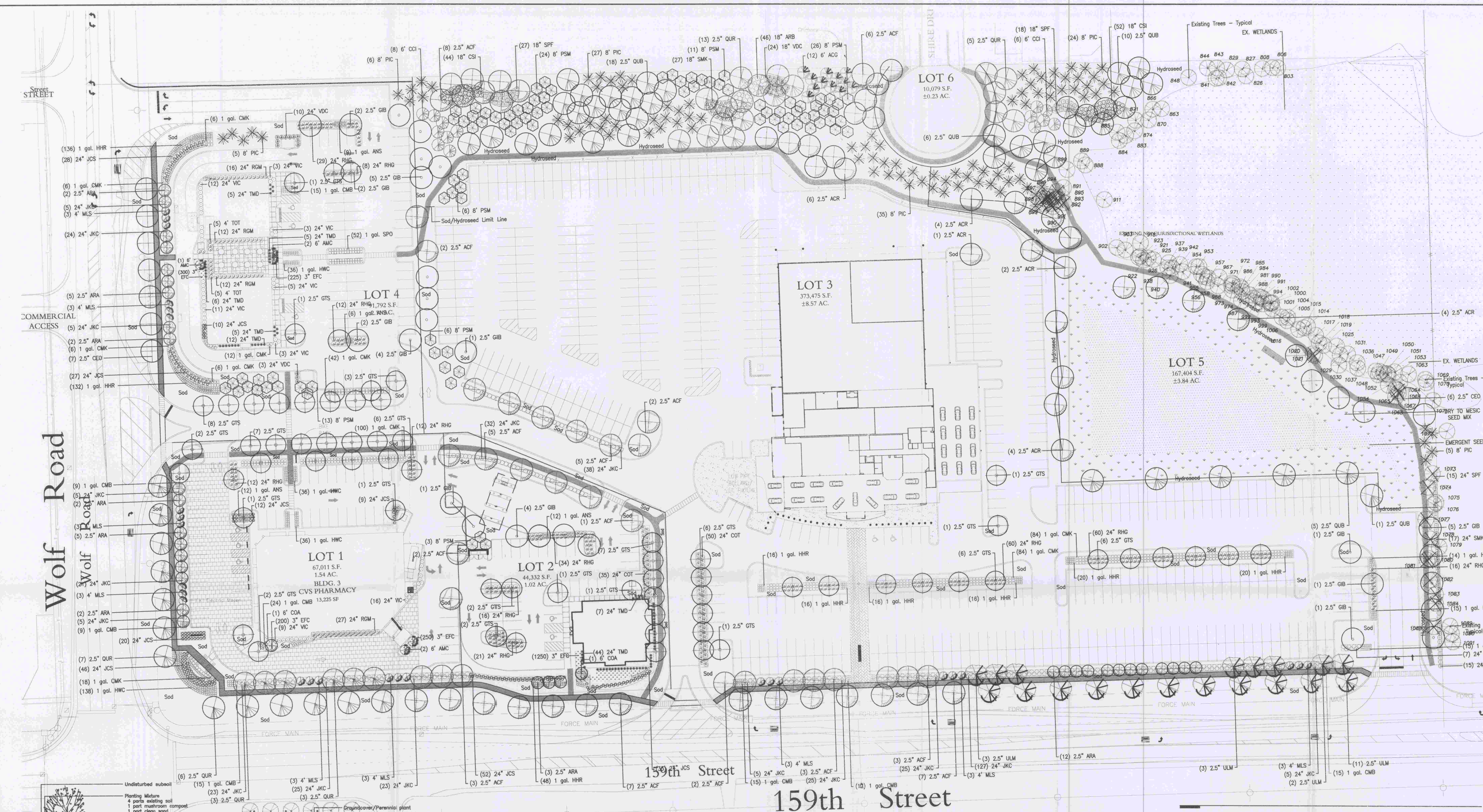




Landscape Calculations

NORTH - BUFFERYARD D REQUIRED (1250'/60' Width)			
Canopy Trees	REQUIRED	PROPOSED	
Understory	60	60	
Ornamental Trees	30	26	
Evergreen Trees	4	4	
Shrubs	238	238	
EAST - BUFFERYARD E REQUIRED (250'/15' Width)			
Canopy Trees	REQUIRED	PROPOSED	
Understory	39	15	
Ornamental Trees	19	5	
Evergreen Trees	165	47	
Shrubs	165	47	
SOUTH - BUFFERYARD D REQUIRED/BUFFERYARD B PROPOSED (1250'/12' Width)			
Canopy Trees	REQUIRED	PROPOSED	
Understory	40	40	
Ornamental Trees	13	15	
Shrubs	200	343	
WEST - BUFFERYARD C REQUIRED (550'/12' Width)			
Canopy Trees	REQUIRED	PROPOSED	
Understory	27	18	
Ornamental Trees	11	12	
Shrubs	106	166	

Required quantities per Village of Orland Park letter, dated January 9, 2009.

Landscape Notes

Size and grading standards of plant materials shall conform to the latest edition of ANSI Z60.1, AMERICAN STANDARD FOR NURSERY STOCK, by the American Nursery & Landscape Association. All plant materials shall be nursery grown stock and shall be free of any deformities, diseases or insect damage. Any materials with damaged or crooked/damaged leaders, bark damage, sunscald, insect damage, etc. are not acceptable and will be rejected. Trees not exhibiting a central (or single) leader will be rejected unless called out in the Plant Schedule as multi-stem. Inspection and approval of all plant materials by the Landscape Architect is required prior to installation. Any materials installed without approval may be rejected. The Village may reject any plant materials that are diseased, deformed, or otherwise not exhibiting superior quality requirements, including those described in the Plant Schedule. The Contractor is responsible for providing and installing all materials shown on the Plan in accordance with plant design and materials quantities. The Contractor is responsible for protecting underground utilities, sidewalks and other previously constructed site improvements.

Plant List

KEY	QTY	SIZE	BOTANICAL NAME	COMMON NAME	REMARKS/SPACING
ACF	56	2.5"	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Freeman Maple	Central Leader
ACG	12	6"	Acer glabrum 'Flame'	Flame Acer Maple	Multi-Stem
ACR	21	2.5"	Acer rubra 'Red Sunset'	Red Sunset Red Maple	Central Leader
AMC	5	6"	Amelanchier canadensis	Shadblow	Multi-Stem
AND	39	1 gal.	Andropogon scoparius	Little Bluestem	3' o.c.
ARB	46	10"	Acer rubra 'Armstrong'	Armstrong Red Maple	Central Leader
CCI	14	6"	Cornus alternifolia 'Brilliantissima'	Bright Red Dogwood	4' o.c.
CCD	13	2.5"	Crataegus crugali var. inermis	Thornless Cockspur Hawthorn	Multi-Stem
CCP	129	1 gal.	Celtis occidentalis 'Prairie Pride'	Prairie Pride Common Hackberry	Central Leader
CMK	364	1 gal.	Colaptes auratus 'Karl Foerster'	Feather Red Grass	3' o.c.
CDA	2	6"	Cornus alternifolia	Pink Dogwood	Multi-Stem
COT	85	24"	Cotoneaster acutifolia 'Peking'	Peking Cotoneaster	4' o.c.
CS	96	18"	Cornus sericea 'Isanti'	Isanti Dogwood	4' o.c.
EFC	225	3'	Elaeagnus fortunei var. coloratus	Shiny Silver Dogwood	6' o.c.
GB	28	2.5"	Ginkgo biloba (MALE)	Ginkgo (MALE)	Central Leader
GTS	68	2.5"	Gleditsia triacanthos v. inermis 'Skyline'	Stylian Thornless Honeylocust	Central Leader
HRR	420	1 gal.	Hemerocallis 'Happy Returns'	Happy Returns Daylily	3' o.c.
HWC	275	1 gal.	Hemerocallis 'Little Wine Cup'	Little Wine Cup Daylily	2' o.c.
JCS	217	1 gal.	Juniperus chinensis var. argentea	Sargent Juniper	Central Leader
JKC	400	24"	Juniperus chinensis 'Kilgus's Compacta'	Kilgus's Compact Juniper	4' o.c.
MLS	27	4"	Morus nigra	Sargent Chokeberry	Multi-Stem
QUB	40	2.5"	Quercus bicolor	Colorado Green Spruce	Natural Form
PSM	89	8"	Pseudotsuga menziesii	Douglasfir	Natural Form
QUR	37	2.5"	Quercus rubra	Swamp White Oak	Central Leader
RCM	76	24"	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	4' o.c.
RHC	280	24"	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	4' o.c.
SMK	27	18"	Syringa patula 'Miss Kim'	Miss Kim Dwarf Lilac	4' o.c.
SPF	45	18"	Spiraea x bumalda 'Trosbelli'	Trosbell Spirea	4' o.c.
SPF	30	24"	Spiraea x bumalda 'Trosbelli'	Trosbell Spirea	4' o.c.
TMD	84	24"	Taxus canadensis 'Densiformis'	Dense Yew	3' o.c.
TOT	10	4"	Thuja occidentalis 'Techny'	Mission Arborvitae	4' o.c.
VOC	24	18"	Viburnum dentatum 'Muffin'	Blue Muffin Arrowwood Viburnum	4' o.c.
VOC	13	24"	Viburnum dentatum 'Chatham'	Blue Muffin Arrowwood Viburnum	4' o.c.
ULM	62	24"	Viburnum cuneatum	Korean Spice Viburnum	Central Leader
ULM	19	2.5"	Ulmus x Morton	Arcadia Elm	Central Leader

Dry to Mesic Prairie Mix

BOTANICAL NAME	COMMON NAME	IBS./ACRE
Allium cernuum	Nodding Onion	0.500 lbs.
Andropogon scoparius	Little Blue Stem	10,000 lbs.
Anemone cylindrica	Thimbleweed	0.125 lbs.
Aster laevis	Smooth Blue Aster	0.016 lbs.
Aster novae-angliae	New England Aster	0.031 lbs.
Asclepias tuberosa	Butterflyweed	0.500 lbs.
Avena sativa	Seed Oats	60.00 lbs.
Baptisia leucantha	White Wild Indigo	0.078 lbs.
Bouteloua curtipendula	Side Oats Grama	10,000 lbs.
Cassia fasciculata	Partridge Pea	1.000 lbs.
Ceanothus americanus	New Jersey Tea	0.031 lbs.
Coreopsis palmata	Prairie Coreopsis	0.250 lbs.
Echinacea pallida	Pale Purple Coneflower	1.000 lbs.
Eryngium yuccifolium	Rattlesnake Master	0.250 lbs.
Lespedeza capitata	Bush Clover	0.125 lbs.
Liatris aspera	Rough Blazing Star	0.500 lbs.
Liatris pycnostachya	Prairie Blazing Star	0.188 lbs.
Monarda fistulosa	Prairie Bergamot	0.050 lbs.
Parthenium integrifolium	Wild Quinine	0.025 lbs.
Pentstemon digitalis	Beardtongue	0.125 lbs.
Petalostemum candidum	White Prairie Clover	0.125 lbs.
Petalostemum purpureum	Purple Prairie Clover	0.500 lbs.
Rubus odoratus	Yellow Coneflower	1.000 lbs.
Rudbeckia hirta	Black-eyed Susan	1.000 lbs.
Silphium laciniatum	Prairie Dock	0.250 lbs.
Silphium terebinthinaceum	Prairie Dock	0.125 lbs.
Solidago rigida	Stiff Goldenrod	0.250 lbs.
Verbena stricta	Hoary Vervain	0.125 lbs.
Vernonia fasciculata	Common Ironweed	0.188 lbs.
Zizia aurea	Golden Alexander	0.500 lbs.

Emergent Seed Mix

BOTANICAL NAME	COMMON NAME	IBS./ACRE
Allium cernuum	Nodding Onion	0.500 lbs.
Aster laevis	Smooth Blue Aster	0.016 lbs.
Carex comosa	Bristly Sedge	0.375 lbs.
Cephalanthus occidentalis	Butterfly Bush	0.125 lbs.
Echinochloa crusgalli	Barnyard Grass	2.000 lbs.
Eleocharis acicularis	Marsh Spike Rush	0.063 lbs.
Eleocharis sp.	Spike Rush species	0.063 lbs.
Glyceria grandis	Reed Manna Grass	0.031 lbs.
Hibiscus laevis	Halberd Leafed Rose Mallow	0.063 lbs.
Iris virginica shrevei	Blue Flag	0.250 lbs.
Juncus sp.	Rush species	0.188 lbs.
Leersia oryzoides	Rice Cut Grass	0.500 lbs.
Peltandra virginica	Arrow Arum	1.000 lbs.
Polygonum sp.	Smart Weed species	1.500 lbs.
Portulaca oleraceae	Pickering Weed	0.063 lbs.
Sagittaria latifolia	Common Arrowhead	0.500 lbs.
Scirpus acutus	Hard-Stemmed Bulrush	0.063 lbs.
Scirpus fluviatilis	River Bulrush	0.125 lbs.
Scirpus pungens	Chickadee's Rush	0.125 lbs.
Scirpus validus creber	Great Bulrush	0.250 lbs.
Suaeda frutescens	Common Bur Reed	1.000 lbs.
Spartina patens	Prairie Cord Grass	0.375 lbs.
Total		9.003 lbs.

REVISIONS			REVISIONS		
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

LANDSCAPE PLAN

RETAIL DEVELOPMENT
NEC 159th STREET AND WOLF ROAD
ORLAND PARK, ILLINOIS

Craig R. Knoche & Associates
Civil Engineers, P.C.
24 N. Bennett Street • Geneva, IL 60134 • phone (815) 845-1270 • fax (815) 845-1275

• Civil Engineers
• Surveyors
• Land Planners

DATE: 3-04-09
FILE: 4041-c40
JOB NO: 4-041
SHEET NO. C4.1

BOARD APPROVED
CASE NO. 2008-0422
DATE 4-6-09
W/CONDITIONS
W/O CONDITIONS

Illinois Design Firm License No. 184.0003763