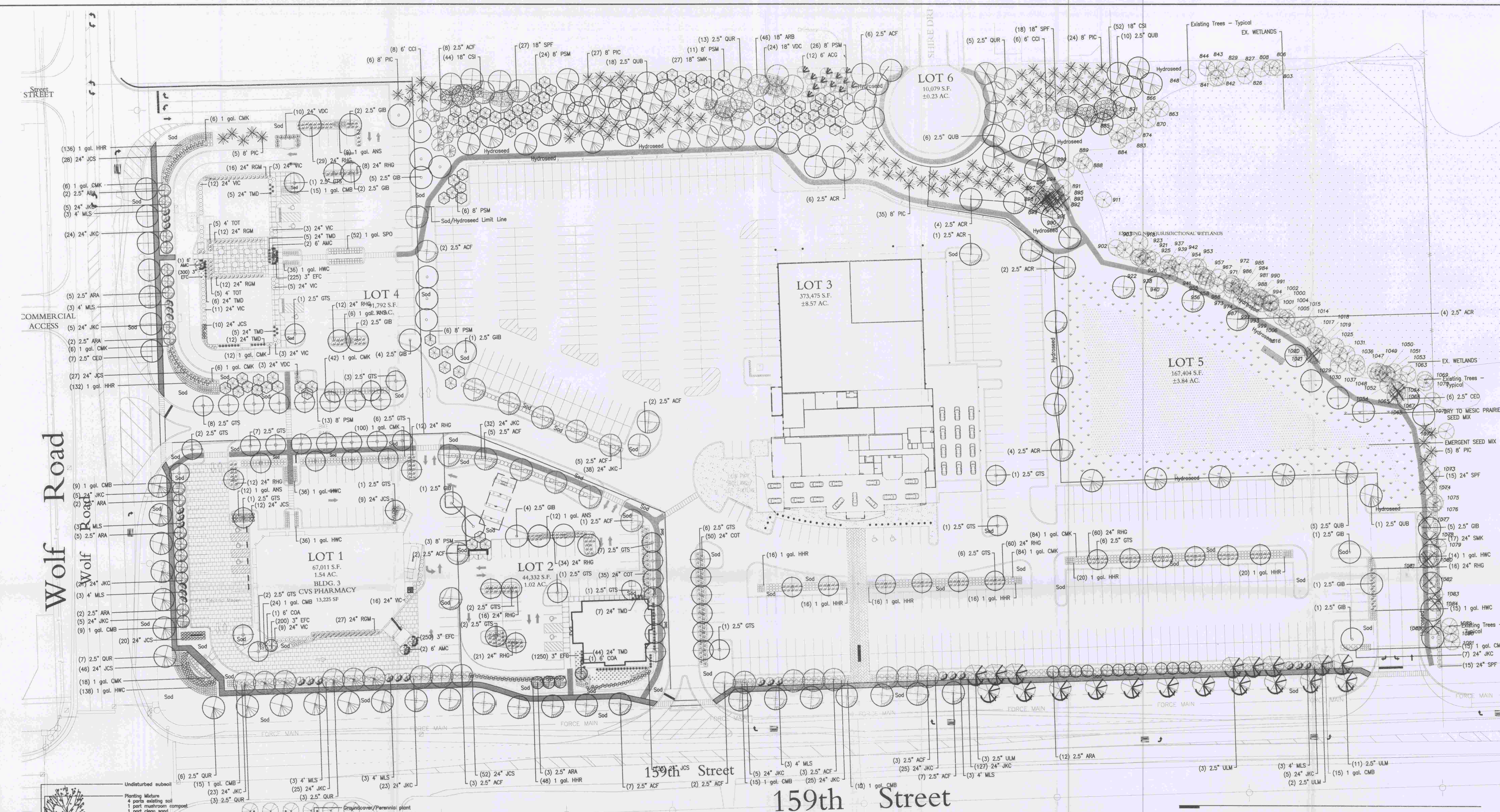
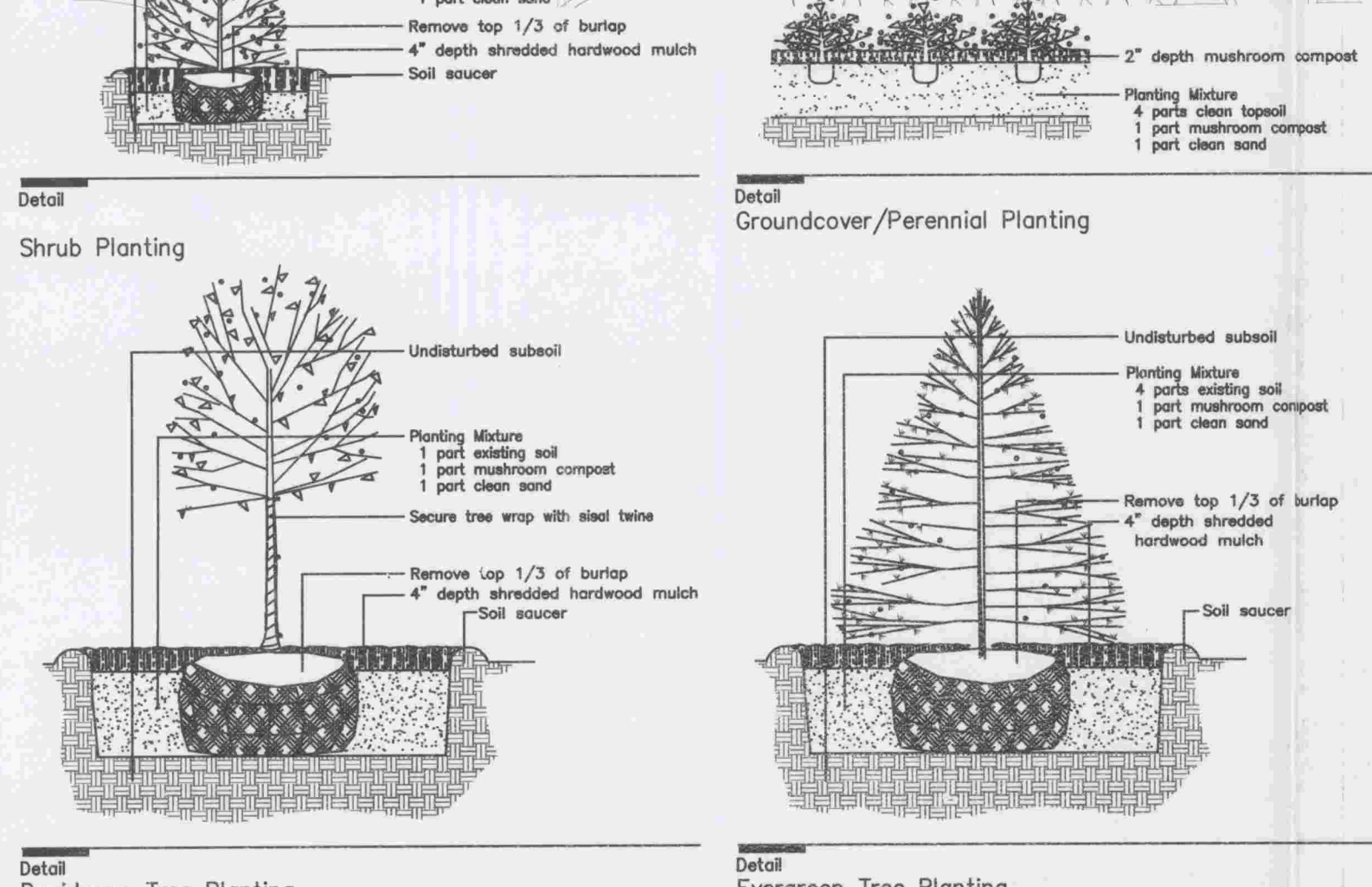




Dry to Mesic Prairie Mix		
BOTANICAL NAME	COMMON NAME	LBS./ACRE
Allium cernuum	Nodding Onion	0.500 lbs.
Andropogon scoparius	Little Blue Stem	10.000 lbs.
Anemone cylindrica	Thimbleweed	0.125 lbs.
Aster laevis	Smooth Blue Aster	0.016 lbs.
Aster novae-angliae	New England Aster	0.031 lbs.
Asclepias tuberosa	Butterflyweed	0.500 lbs.
Avena sativa	Seed Oats	60.000 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.
Cercocarpus palmita	Prairie Coralberry	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.
Petalostemon candidum	White Prairie Clover	0.125 lbs.
Petalostemon purpureum	Purple Prairie Clover	0.500 lbs.
Rubus cuneifolius	Yellow Coneflower	1.000 lbs.
Rubus hirta	Black-eyed Susan	1.000 lbs.
Silphium laciniatum	Wild Quinine	0.125 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	LBS./ACRE
Allium cernuum	Nodding Onion	0.500 lbs.
Acorus calamus	Sweet Flag	0.250
Alisma subcordatum	Common Water Plantain	0.094
Carex comosa	Bristly Sedge	0.375
Cephalanthus occidentalis	Button Bush	0.125
Echinochloa crusgalli	Barnyard Grass	2.000
Eleocharis acicularis	Marsh Spike Rush	0.063
Eleocharis spp.	Spike Rush species	0.063
Glyceria grandis	Reed Manna Grass	0.031
Hibiscus laevis	Halberd Leafed Rose Mallow	0.063
Iris virginica shrevei	Blue Flag	0.250
Juncus spp.	Rush species	0.188
Leersia oryzoides	Rice Cut Grass	0.500
Peltandra virginica	Arrow Arum	1.000
Polygonum spp.	Smart Weed species	1.500
Potamogeton nodosus	Pickweed	0.063
Sagittaria latifolia	Common Arrowhead	0.500
Scirpus acutus	Hard-Strawed Bulrush	0.063
Scirpus fluviatilis	River Bulrush	0.125
Scirpus pungens	Chickadee's Rush	0.125
Scirpus validus creber	Great Bulrush	0.250
Suaeda frutescens	Common Bur Reed	1.000
Spartina patens	Prairie Cord Grass	0.375
Total		9.003



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	15	5	
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	12	
Ornamental Trees	11	12	
Shrubs	106	166	

Parkway Trees			
159th Street	REQUIRED	PROPOSED	
Wolf Road	31	31	
	15	14	

PARKING LOT (880 Spaces @ 1 Tree/7 Spaces)			
Canopy Trees	REQUIRED	PROPOSED	
Understory	128	124	
Shrubs	126	444	

MITIGATION TREES - 70 REQUIRED
PROPOSED - (70) Evergreen Trees at North Bufferyard

RELOCATED BMW PARKING LOT ISLAND TREES - 95 REQUIRED
PROPOSED - (16) Canopy Trees at North Bufferyard
PROPOSED - (79) Evergreen Trees at North Bufferyard

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 abrasions, 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
ACF	56	2.5"	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Freeman Maple
ACG	12	6"	Acer glabrum 'Flame'	Flame Amur Maple
ACR	21	2.5"	Acer rubra 'Red Sunset'	Red Sunset Red Maple
AMC	5	6"	Amelanchier canadensis	Shadbush
ANS	39	1 gal.	Andropogon scoparius	Little Bluestem
ARB	46	18"	Acer rubra 'Armstrong'	Armstrong Red Maple
CCI	14	6"	Aronia arbutifolia 'Brilliantissima'	Bright Red Chokeberry
CCD	13	2.5"	Cotoneaster cogoni var. coloratus	Thornless Cockspur Hawthorn
CCM	129	1 gal.	Cornus alternifolia 'Pride'	Prairie Pride Common Hockberry
CKA	364	1 gal.	Colaptes auratus 'Karl Forster'	Feather Red Grass
CDA	2	6"	Cornus alternifolia	Pogoda Dogwood
COT	85	24"	Cotoneaster acutifolius 'Peking'	Peking Cotoneaster
CSA	33	2.5"	Cornus sericea 'Ivory'	Ivory Red Chokeberry
CSB	225	3"	Cornus stolonifera var. coloratus	Partridge Wintercreeper
CSF	28	2.5"	Ginkgo biloba (MALE)	Ginkgo (MALE)
CSG	68	2.5"	Gleditsia triacanthos v. inermis 'Skyline'	Stylized Thornless Honeylocust
HRR	420	1 gal.	Hemerocallis 'Happy Returns'	Happy Returns Daylily
HWC	275	1 gal.	Hemerocallis 'Little Wine Cup'	Little Wine Cup Daylily
JCS	217	24"	Juniperus chinensis var. argentea	Sargent Juniper
JCK	400	24"	Juniperus chinensis 'Kilgus Compacta'	Kilgus's Compact Juniper
MLS	27	4"	Morus nigra	Sour Cherry
PIC	102	6"	Picea canadensis	Colorado Green Spruce
PSM	89	8"	Pseudotsuga menziesii	Douglasfir
QUB	40	2.5"	Quercus bicolor	Swamp White Oak
QUR	37	2.5"	Quercus rubra	Red Oak
ROM	76	24"	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant
RHC	280	24"	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac
SMK	27	18"	Syringa patula 'Miss Kim'	Miss Kim Dwarf Lilac
SPF	45	18"	Spiraea x bumalda 'Froebel'	Froebel Spirea
SPF	30	24"	Spiraea x bumalda 'Froebel'	Froebel Spirea
TMD	84	24"	Taxus x media 'Densiformis'	Prairie Droop
TOT	10	4"	Thuja occidentalis 'Techny'	Mission Arborvitae
VDC	24	18"	Viburnum dentatum 'Chistum'	Blue Muffin Arrowwood Viburnum
VDC	13	24"	Viburnum dentatum 'Chistum'	Blue Muffin Arrowwood Viburnum
VLC	62	24"	Viburnum coccineum	Korean Spice Viburnum
VLC	19	2.5"	Ulmus x Morton	Academy Elm

REVISIONS		
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 (630) 845-1270 • fax (630) 845-1275

DATE: 3-04-09
FILE: 4041-c40
JOB NO: 4-041

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

C4.1
SHEET NO.