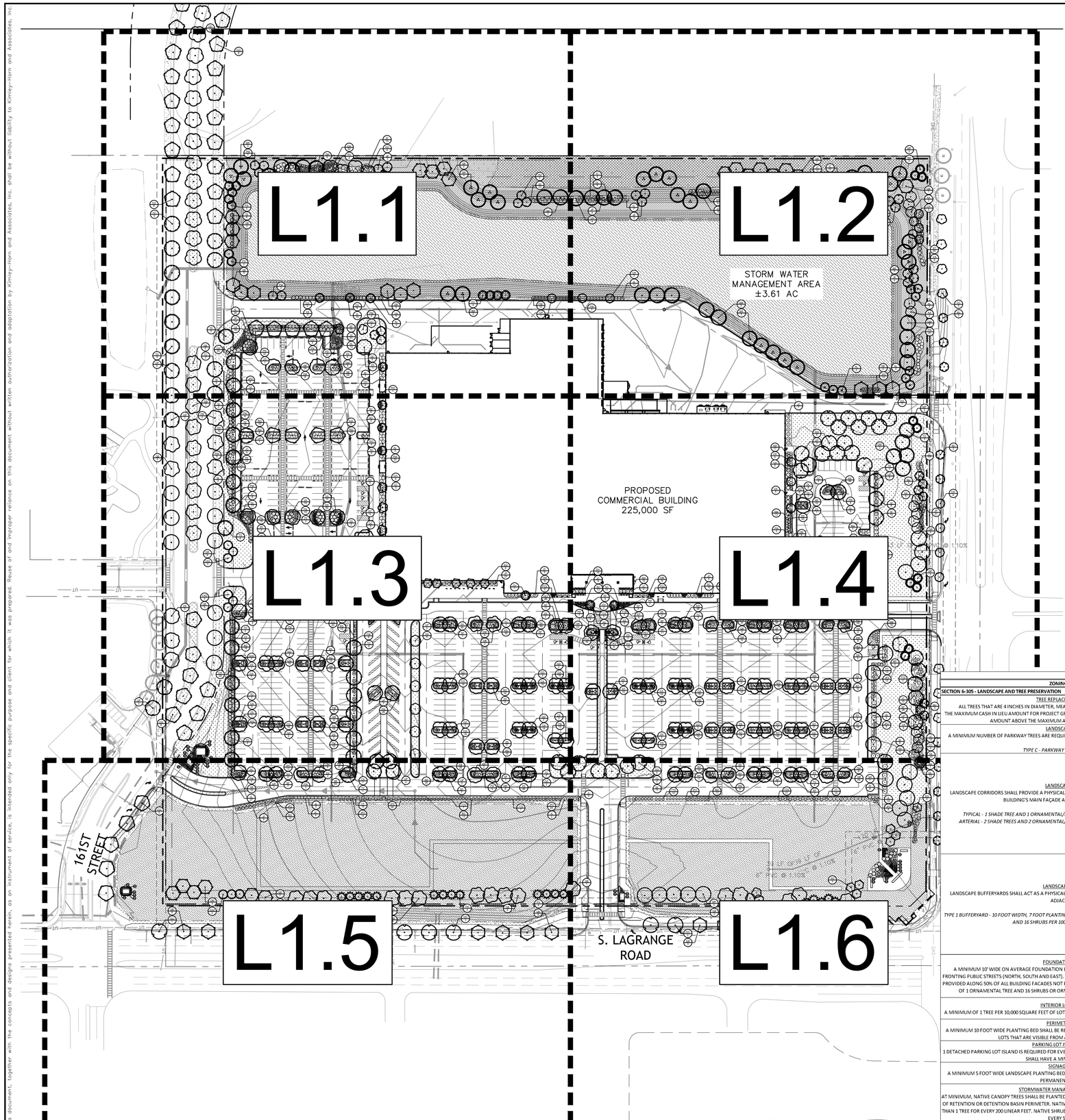

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ORLAND PARK, IL - LANDSCAPE CODE REQUIREMENTS		
ZONING ORDINANCE	**REQUIRED**	**PROPOSED**
SECTION 6-305 - LANDSCAPE AND TREE PRESERVATION		
TREE REPLACEMENT STANDARDS: ALL TREES THAT ARE 4 INCHES IN DIAMETER, MEASURED 4 FEET FROM THE GROUND, SHALL BE REPLACED. THE MAXIMUM CASH IN LIEU AMOUNT FOR PROJECT GREATER THAN 10 ACRES IN AREA IS $100,000, ANY CASH IN LIEU AMOUNT ABOVE THE MAXIMUM AMOUNT WILL BE WAVED BY THE VILLAGE.	** SEE SHEETS TP1.0-TP2.0 FOR TREE PRESERVATION PLAN **	TOTAL SITE ACREAGE: 35.1 AC TOTAL FEE IN LIEU: $127,050 $100,000 FEE IN LIEU TO BE PROVIDED
LANDSCAPE PARKWAYS: A MINIMUM NUMBER OF PARKWAY TREES ARE REQUIRED PER LINEAL FEET OF FRONTAGE FOR ALL DEVELOPMENT. *TYPE C - PARKWAY TREES 40 FEET ON CENTER*	**PARKWAY TREES REQUIRED ALONG LA GRANGE ROAD, W 159TH STREET AND W 161ST STREET**	PARKWAY TREES PLANTED 40 FEET O.C. PROVIDED ALONG LA GRANGE ROAD, W 159TH STREET AND W 161ST STREET
LANDSCAPE CORRIDORS: LANDSCAPE CORRIDORS SHALL PROVIDE A PHYSICAL AND VISUAL CONNECTION BETWEEN THE PARKWAY AND A BUILDING'S MAIN FAÇADE AND FOUNDATION PLANTING AREA. *TYPICAL - 1 SHADE TREE AND 1 ORNAMENTAL/EVERGREEN TREE PER 100 FEET OF CORRIDOR LENGTH* *ARTERIAL - 2 SHADE TREES AND 2 ORNAMENTAL/EVERGREEN TREES PER 100 FEET OF CORRIDOR LENGTH*	ARTERIAL CORRIDOR: LENGTH OF LA GRANGE ROAD = 1,362 LF 1,362 LF / 100 LF = 13.62 13.62 x 2 TREES = 27.24 **27 SHADE TREES & 27 ORNAMENTAL/EVERGREEN TREES REQUIRED ALONG LA GRANGE ROAD**	27 SHADE TREES, 9 ORNAMENTAL TREES AND 18 EVERGREEN TREES PROVIDED ALONG LA GRANGE ROAD
	ARTERIAL CORRIDOR: LENGTH OF 159TH STREET = 997 LF 997 LF / 100 LF = 9.97 9.97 x 2 TREES = 19.94 **20 SHADE TREES & 20 ORNAMENTAL/EVERGREEN TREES REQUIRED ALONG 159TH STREET**	20 SHADE TREES AND 20 ORNAMENTAL TREES PROVIDED ALONG 159TH STREET
	TYPICAL CORRIDOR: LENGTH 161ST STREET = 1,265 LF 1,265 LF / 100 LF = 12.65 **13 SHADE TREES & 13 ORNAMENTAL/EVERGREEN TREES REQUIRED ALONG 161ST STREET**	13 CANOPY TREES, 6 ORNAMENTAL TREES AND 7 EVERGREEN TREES PROVIDED ALONG 161ST STREET
LANDSCAPE BUFFERYARDS: LANDSCAPE BUFFERYARDS SHALL ACT AS A PHYSICAL AND VISUAL EDGE BETWEEN THE SIDE AND REAR YARDS OF ADJACENT PARCELS. *TYPE 1 BUFFERYARD - 10 FOOT WIDTH, 7 FOOT PLANTING BED AND 3 SHADE TREES, 1 ORNAMENTAL/EVERGREEN TREE AND 16 SHRUBS PER 100 FEET OF BUFFERYARD LENGTH*	TYPE 1 BUFFERYARD: NORTH PROPERTY LINE = 1,287 LF 1,287 LF / 100 LF = 12.87 12.87 x 3 SHADE TREES = 38.61 = **39 SHADE TREES REQUIRED** 12.87 x 1 ORNAMENTAL/EVERGREEN TREE = 12.87 = **13 ORNAMENTAL/EVERGREEN TREES REQUIRED** 12.87 x 16 SHRUBS = 205.92 = **206 SHRUBS REQUIRED**	39 SHADE TREES, 9 ORNAMENTAL TREES, 4 EVERGREEN TREES AND 206 SHRUBS PROVIDED ALONG THE NORTH PROPERTY LINE
	TYPE 1 BUFFERYARD: WEST PROPERTY LINE = 1,245.82 LF 1,245.82 LF / 100 LF = 12.46 12.46 x 3 SHADE TREES = 37.38 = **37 SHADE TREES REQUIRED** 12.46 x 1 ORNAMENTAL/EVERGREEN TREE = 12.46 = **12 ORNAMENTAL/EVERGREEN TREES REQUIRED** 12.46 x 16 SHRUBS = 199.36 = **199 SHRUBS REQUIRED**	41 SHADE TREES, 9 EVERGREEN TREES AND 199 SHRUBS PROVIDED ALONG THE WEST PROPERTY LINE
FOUNDATION LANDSCAPE: A MINIMUM 10' WIDE ON AVERAGE FOUNDATION LANDSCAPE AREA ALONG 100% OF ALL BUILDING FACADES FRONTING PUBLIC STREETS (NORTH, SOUTH AND EAST). A MINIMUM 7' WIDE FOUNDATION LANDSCAPE AREA SHALL BE PROVIDED ALONG 50% OF ALL BUILDING FACADES NOT FRONTING A PUBLIC STREET (WEST). ON AVERAGE, A MINIMUM OF 1 ORNAMENTAL TREE AND 16 SHRUBS OR ORNAMENTAL GRASSES FOR EVERY 100' OF BUILDING FACE.	TOTAL LENGTH OF BUILDING FACE = 2,201.93 LF 2,201.93 LF / 100 LF = 22.02 22.02 x 1 ORNAMENTAL TREE = 22.02 = **23 ORNAMENTAL TREES REQUIRED** 22.02 x 16 SHRUBS/GRASSES = 352.32 = **352 SHRUBS/GRASSES REQUIRED**	22 ORNAMENTAL TREES AND 352 SHRUBS/ORNAMENTAL GRASSES PROVIDED ALONG THE BUILDING FAÇADE
INTERIOR LOT LANDSCAPING: A MINIMUM OF 1 TREE PER 10,000 SQUARE FEET OF LOT AREA FOR COMMVERCIAL/OFFICE DEVELOPMENT IS REQUIRED.	TOTAL AREA OF DEVELOPMENT = 1,527,310.29 SQ FT 1,527,310.29 SQ FT / 10,000 SQ FT = 152.73 **153 TREES REQUIRED**	153 CANOPY AND EVERGREEN TREES PROVIDED THROUGHOUT THE SITE
PERIMETER SCREENING: A MINIMUM 10 FOOT WIDE PLANTING BED SHALL BE REQUIRED AROUND THE PERIMETER OF ALL REQUIRED PARKING LOTS THAT ARE VISIBLE FROM ADJACENT PROPERTIES AND STREETS.	**PARKING LOT PERIMETER SCREENING REQUIRED ALONG LA GRANGE ROAD, 159TH STREET AND 161ST STREET**	PARKING LOT PERIMETER SCREENING PROVIDED ALONG LA GRANGE ROAD, 159TH STREET AND 161ST STREET
PARKING LOT ISLAND LANDSCAPING: 1 DETACHED PARKING LOT ISLAND IS REQUIRED FOR EVERY 10 PARKING SPACES PROVIDED. EACH PARKING LOT ISLAND SHALL HAVE A MINIMUM OF 1 SHADE TREE.	TOTAL NUMBER OF PARKING SPACES = 857 SPACES 857 SPACES / 10 SPACES = 85.7 **86 PARKING LOT TREES REQUIRED**	86 TREES PROVIDED WITHIN PARKING LOT ISLANDS
SIGNAGE LANDSCAPE: A MINIMUM 5 FOOT WIDE LANDSCAPE PLANTING BED SHALL BE INSTALLED AROUND THE ENTIRE BASE OF ALL NEW PERMANENT GROUND SIGNS.	**SIGNAGE LANDSCAPE REQUIRED AROUND ALL NEW SIGNS**	SIGNAGE LANDSCAPE PROVIDED AROUND ALL NEW SIGNS
STORMWATER MANAGEMENT AREA LANDSCAPE: AT MINIMUM, NATIVE CANOPY TREES SHALL BE PLANTED AT A RATIO NOT LESS THAN 1 TREE FOR EVERY 100 LINEAR FEET OF RETENTION OR DETENTION BASIN PERIMETER. NATIVE UNDERSTORY TREES SHALL BE PLANTED AT A RATIO NOT LESS THAN 1 TREE FOR EVERY 200 LINEAR FEET. NATIVE SHRUBS SHALL BE PLANTED AT A RATIO NOT LESS THAN 3 SHRUBS FOR EVERY 50 LINEAR FEET.	TOTAL BASIN PERIMETER LENGTH = 2,535.05 LF 2,535.05 LF / 100 LF = 25.35 x 1 SHADE TREE = 25.35 = **25 SHADE TREES REQUIRED** 2,535.05 LF / 200 LF = 12.68 x 1 ORNAMENTAL TREE = 12.68 = **13 ORNAMENTAL TREES REQUIRED** 2,535.05 LF / 50 LF = 50.70 x 3 SHRUBS = 153.10 = **152 SHRUBS REQUIRED**	25 SHADE TREES, 13 ORNAMENTAL TREES AND 152 SHRUBS PROVIDED AROUND THE DETENTION POND PERIMETER

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OVERALL LANDSCAPE PLAN

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

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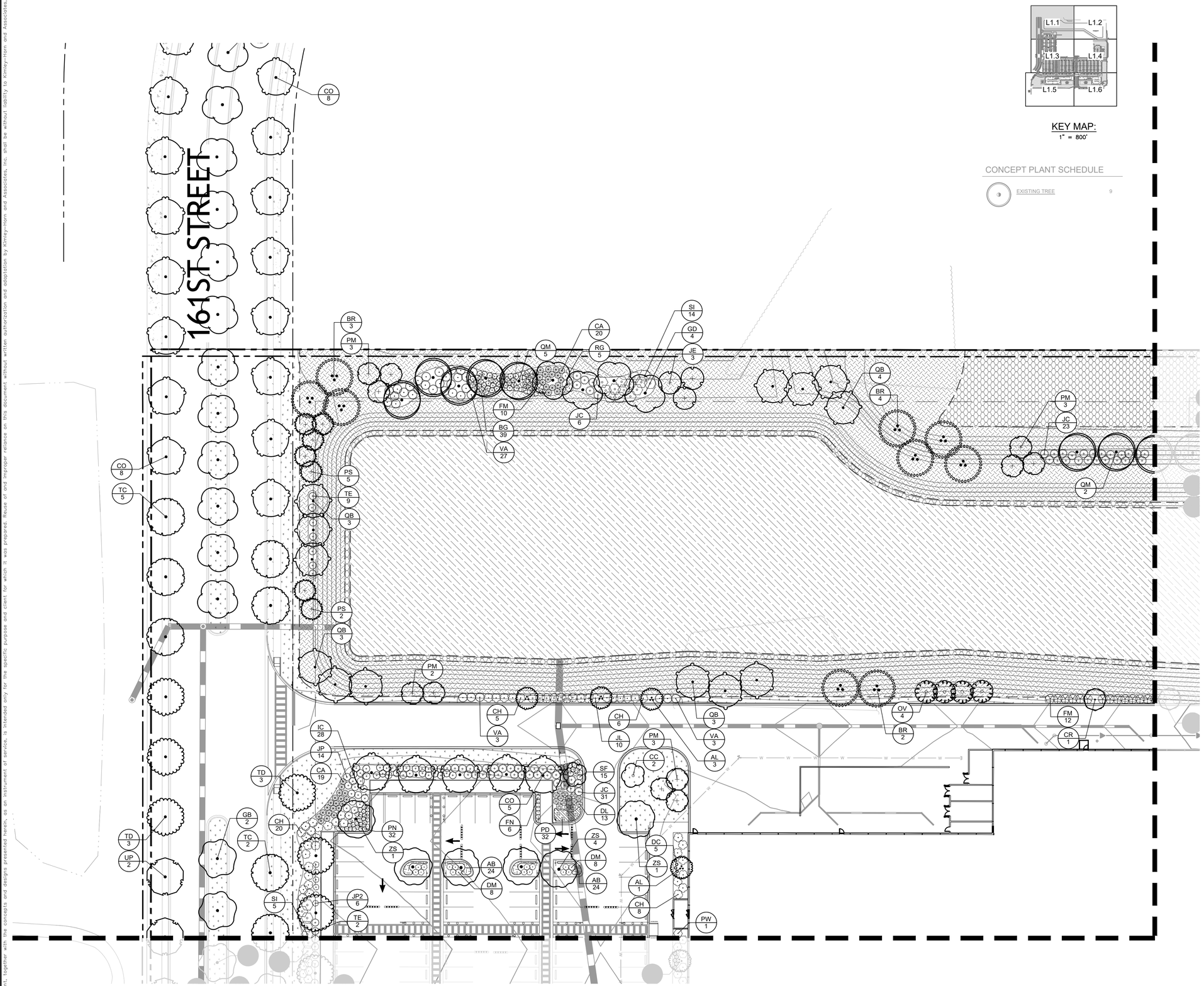

KEY MAP:
1" = 800'

CONCEPT PLANT SCHEDULE

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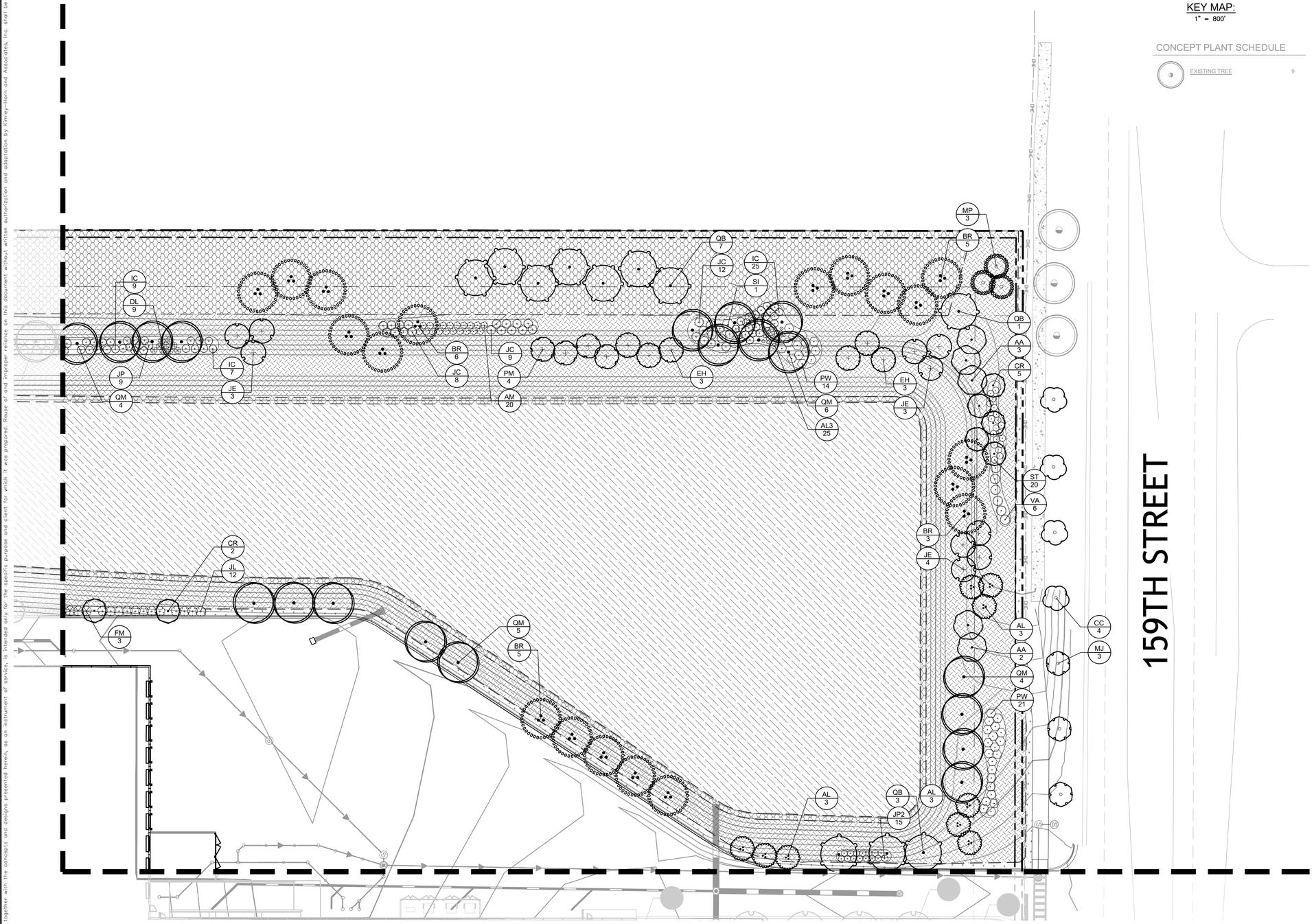

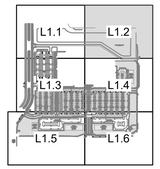

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LANDSCAPE PLAN

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L1.2

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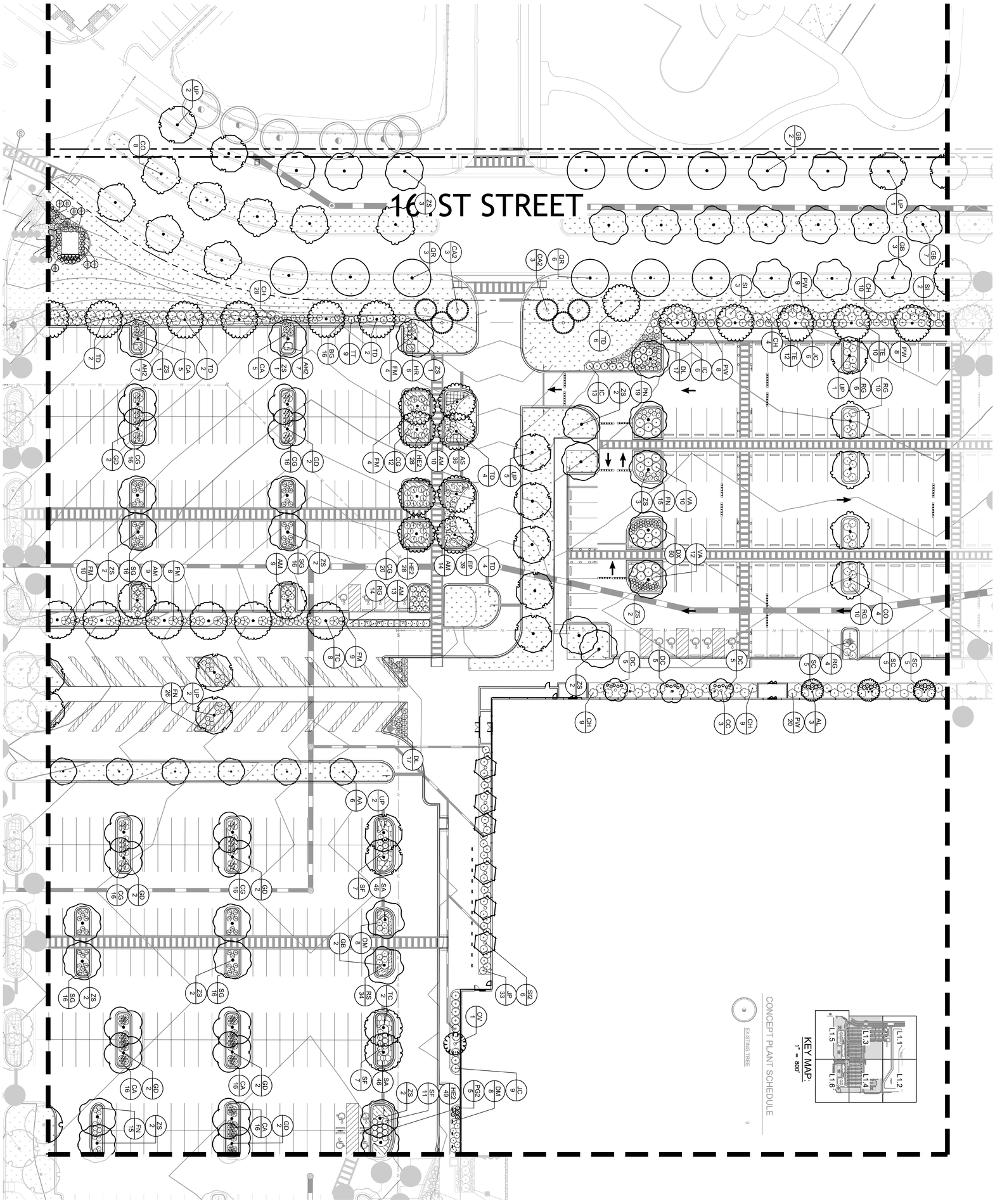

PLANT SCHEDULE

QUANTITY	CODE	BOTANICAL/COMMON NAME
4	AA	ACER x FREEMANII 'AUTUMN BLAZE' / AUTUMN BLAZE MAPLE
23	CO	CELTIS OCCIDENTALIS / COMMON HACKBERRY
23	GB	GINKGO BILOBA 'AUTUMN GOLD' / AUTUMN GOLD GINKGO - MALE ONLY
23	GD	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE' / SKYLINE LOCUST
23	GS	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE
23	PA	PYRUS x CALLERYANA 'BLACK TIPPED'
58	QB	QUERCUS BICOLOR / SWAMP WHITE OAK
23	QM	QUERCUS MACROCARPA / BUR OAK
23	TO	TAXODIUM DISTICHUM / BALD CYPRESS
58	UP	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM
23	TC	TILIA AMERICANA 'REDMOND' / REDMOND LINDEN

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	JS	JUNIPERUS VIRGINIANA / EASTERN REDCEDAR
23	PG	PICEA ABIES 'NORWAY SPRUCE
23	PM	PINUS STROBUS / WHITE PINE
23	PO	PSEUDOTSUGA MENZIESII / DOUGLAS FIR
23	TO	TSUGA CANADENSIS / EASTERN HEMLOCK

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	AL	ALNUS GLUTINOSA 'LACINIATA' / LACINIATE BLACK ALDER
58	AM	AMELANCHIER LAMARCKII 'RANCHO' / RANCHO SERVICEBERRY
58	BG	BETULA NIGRA 'HERITAGE' / HERITAGE RIVER BIRCH - MULTISTEM
58	CC	CERCIS CANADENSIS 'EASTERN REDBUD' / SINGLE STEM
58	CG	CERCIS CANADENSIS 'GRAFTY' / GRAFTY EASTERN REDBUD - SINGLE STEM
58	CM	CORNUS MAS 'GOLDEN GLOW' / GOLDEN GLOW CORNELIAN CHERRY - SINGLE STEM
58	GT	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' / SHADEMASTER HONEYLOCUST - SINGLE STEM
58	MS	MALUS x 'SPRING SNOW' / SPRING SNOW CRABAPPLE - SINGLE STEM
58	OV	OSTRYA VIRGINIANA / AMERICAN HOPHORNBEAM - SINGLE STEM
58	PL	PLATANUS x ACERIFOLIA 'BLOODGOOD' / BLOODGOOD LONDON PLANETREE - SINGLE STEM

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	AR	ARONIA MELANOCARPA 'VIKING' / VIKING BLACK CHOKEBERRY
58	AL1	ARONIA MELANOCARPA 'LEVANNAH' PBR / LEVANNAH BLACK CHOKEBERRY
58	CA	CALLICARPA DICHOTOMA 'PROFUSION' / PROFUSION BEAUTYBERRY
58	CS	CORNUS SERICEA 'ARCTIC FIRE' / ARCTIC FIRE DOGWOOD
58	CS1	CORNUS SERICEA 'CARDINAL' / CARDINAL RED DOGWOOD
58	CS2	CORNUS SERICEA 'KELSEYI' / KELSEY DWARF DOGWOOD
58	FG	FOTHERGILLA GARDENII 'MT. AIRY' / MT. AIRY FOTHERGILLA
58	FM	FOTHERGILLA MAJOR 'MONROE' / MONROE SWEET SPIRE
58	HA	HYDRANGEA ARBORESCENS 'ANNABELLE' / ANNABELLE SMOOTH HYDRANGEA
58	HE1	HYDRANGEA PANICULATA 'LITTLE LIME' / LITTLE LIME PANICLE HYDRANGEA
58	HE2	HYDRANGEA PANICULATA 'SILVER DOLLAR' / SILVER DOLLAR PANICLE HYDRANGEA
58	HR	HYDRANGEA PANICULATA 'SKYFALL' / SKYFALL PANICLE HYDRANGEA
58	IG	ILEX GLABRA 'SHAMROCK' / SHAMROCK INKBERRY HOLLY
58	IV	ILEX VERTICILLATA 'WINTER RED' / WINTER RED HOLLY
58	MA	MYRICA PENSYLVANICA / NORTHERN BAYBERRY
58	PV	PRUNUS x CISTENA 'PUMILA' / PUMILA SAND CHERRY
58	RA	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC
58	RG	RIBES AUREUM 'GOLDEN' / GOLDEN FLOWERING CURRANT
58	SS	SPIRAEA BETULIFOLIA 'TOR' / TOR BIRCHLEAF SPIREA
58	SJ	SPIRAEA JAPONICA 'ANTHONY WATERER' / ANTHONY WATERER SPIREA
58	SL	SPIRAEA JAPONICA 'LITTLE PRINCESS' / LITTLE PRINCESS SPIREA
58	VA	VIBURNUM ACERIFOLIUM / MAPLE LEAF VIBURNUM
58	VD	VIBURNUM DENTATUM 'CHRISTOM' PBR / ARCTIC SPLENDOR ARROWWOOD VIBURNUM

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	BG	BUDDLEIA DAVIDII 'LO & BEHOLD BLUE SUGAR' / LO & BEHOLD BLUE SUGAR BUTTERFLY BUSH
58	CK	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
58	CA	CALAMAGROSTIS x ACUTIFLORA 'VARIEGATA' / VARIEGATED FEATHER REED GRASS
58	DC	DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS
58	DG	DESCHAMPSIA CESPITOSA 'GOLDTAU' / GOLDTAU HAIRGRASS
58	PA	PANICUM VIRGATUM 'HEAVY METAL' / HEAVY METAL SWITCHGRASS
58	PS2	PANICUM VIRGATUM 'NORTHWIND' / NORTHWIND SWITCHGRASS
58	PF	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS
58	SC	SCHIZACHYRIUM SCOPARIUM 'CARAQUEZ' / CARAQUEZ LITTLE BLUESTEM
58	SH	SPOROBOLUS HETEROLEPIS 'HRUMAN' / HRUMAN SPOREBOLUS

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	AC	ACHILLEA MILLEFOLIUM 'FIRECRACKER' / FIRECRACKER YARROW
58	AN	ALLIUM x 'SUMMER BEAUTY' / SUMMER BEAUTY ORNAMENTAL ONION
58	AB	ANEMONE x HYBRIDA 'HONORINE JOBERT' / HONORINE JOBERT JAPANESE ANEMONE
58	AQ	AQUILEGIA CANADENSIS / WILD COLUMBINE
58	CF	CONVALLARIA MAJALIS 'FORTUNE' / FORTUNE LILY OF THE VALLEY
58	GF	GERANIUM x 'ROZANNE' / ROZANNE HARDY GERANIUM
58	HC1	HEMEROCALLIS x 'HAPPY RETURNS' / HAPPY RETURNS DAYLILY
58	HC2	HEMEROCALLIS x 'STELLA DE ORO' / STELLA DE ORO DAYLILY
58	HP	HOSTA x 'PATRIOT' / PATRIOT HOSTA
58	HS	HOSTA x 'SUM AND SUBSTANCE' / SUM AND SUBSTANCE HOSTA
58	IR	IRIS x 'REDDEN' / REDDEN BEARDED IRIS
58	NF	NEPETA x FAASSENII 'BLUE WONDER' / BLUE WONDER NEPETA
58	PA	PAEONIA x 'SARAH BERNHARDT' / SARAH BERNHARDT PEONY
58	PS	PENSTEMON SERRULATUS / SMOOTH SCALE
58	RF	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACKEYED SUSAN
58	SA	SEDUM x 'AUTUMN JOY' / AUTUMN JOY SEDUM

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	EF	EUONYMUS FORTUNEI 'AUREUS' / AUREUS WINTERCREEPER
58	HD	HEDERA HELIX 'DUCKFOOT' / DUCKFOOT ENGLISH IVY
58	PV	PACHYSANDRA TERMINALIS 'VARIEGATA' / VARIEGATED JAPANESE SPURGE
58	VM	VINCA MINOR 'ALBA' / ALBA DWARF PERIWINKLE

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	BO	BOUTELOUA GRACILIS 'LEVELLAND' / LEVELLAND BLUE GRAMA
58	CK	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
58	JE	JUNIPERUS CHINENSIS 'EDWARD' / EDWARD JUNIPER
58	JK	JUNIPERUS CHINENSIS 'KOLLER' / KOLLER JUNIPER
58	JP	JUNIPERUS CHINENSIS 'PFITZERIANA' / PFITZER JUNIPER
58	JS	JUNIPERUS CHINENSIS 'SEA SPRAY' / SEA SPRAY JUNIPER
58	JV	JUNIPERUS CHINENSIS 'VALLES COMPACT' / VALLES COMPACT PFITZER JUNIPER
58	PD	PANICUM VIRGATUM 'DOWNSLAND' / DOWNSLAND SWITCHGRASS
58	PH	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS
58	SC	SCHIZACHYRIUM SCOPARIUM 'CARAQUEZ' / CARAQUEZ LITTLE BLUESTEM
58	SH	SPOROBOLUS HETEROLEPIS 'HRUMAN' / HRUMAN SPOREBOLUS

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	CA	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
58	PD	PANICUM VIRGATUM 'DOWNSLAND' / DOWNSLAND SWITCHGRASS
58	PH	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS
58	SC	SCHIZACHYRIUM SCOPARIUM 'CARAQUEZ' / CARAQUEZ LITTLE BLUESTEM
58	SH	SPOROBOLUS HETEROLEPIS 'HRUMAN' / HRUMAN SPOREBOLUS

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	CK	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
58	PD	PANICUM VIRGATUM 'DOWNSLAND' / DOWNSLAND SWITCHGRASS
58	PH	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS
58	SC	SCHIZACHYRIUM SCOPARIUM 'CARAQUEZ' / CARAQUEZ LITTLE BLUESTEM
58	SH	SPOROBOLUS HETEROLEPIS 'HRUMAN' / HRUMAN SPOREBOLUS

QUANTITY	CODE	BOTANICAL/COMMON NAME
58	CA

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KEY MAP:
1" = 800'

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	AA	ACER X FREEMANII 'ARMSTRONG' / ARMSTRONG FREEMAN MAPLE
	CO	CELTIS OCCIDENTALIS / COMMON HACKBERRY
	GB	GINKGO BILOBA 'AUTUMN GOLD' / AUTUMN GOLD GINKGO - MALE ONLY
	GG	GLEDITSIA TRIACANTHOS INERMIS 'GREEN GLORY' / GREEN GLORY HONEY LOCUST
	GD	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE
	ZS	NYSSA SYLVATICA / BLACK TUPELO
	QB	QUERCUS BICOLOR / SWAMP WHITE OAK
	QM	QUERCUS MACROCARPA / BURR OAK
	QR	QUERCUS RUBRA / RED OAK
	TD	TAXODIUM DISTICHUM / BALD CYPRESS
	TC	TILLIA AMERICANA 'MCKSENTRY' / MCKSENTRY LINDEN
	UP	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM
EVERGREEN TREES		
	JE	JUNIPERUS VIRGINIANA / EASTERN REDCEDAR
	PA	PICEA ABIES / NORWAY SPRUCE
	PS	PINUS STROBUS / WHITE PINE
	PM	PSUEDOTSUGA MENZIESII / DOUGLAS FIR
	EH	TSUGA CANADENSIS / EASTERN HEMLOCK
ORNAMENTAL TREES		
	AL	AMELANCHIER LAEVIS / ALLEGHENY SERVICEBERRY - MULTI STEM
	BR	BETULA NIGRA / RIVER BIRCH - MULTISTEM
	CA2	CARPINUS CAROLINIANA / AMERICAN HORNBEAM - SINGLE STEM
	CC	CERCIS CANADENSIS / EASTERN REDBUD - SINGLE STEM
	CR	CRATAEGUS CRUS-GALLI VAR. INERMIS / COCKSPUR HAWTHORN - SINGLE STEM
	MJ	MALUS X 'JEWELCOLE' / RED JEWEL™ CRABAPPLE - SINGLE STEM
	MP	MALUS X 'PRAIRIFIRE' / PRAIRIFIRE CRABAPPLE - SINGLE STEM
	OV	OSTRYA VIRGINIANA / AMERICAN HORNBEAM - SINGLE STEM
	SI2	SYRINGA RETICULATA 'IVORY SILK' / IVORY SILK JAPANESE LILAC - SINGLE STEM
SHRUBS		
	AM	ARONIA MELANOCARPA 'MORTON' TM / IROQUOIS BEAUTY BLACK CHOKEBERRY
	AL3	ARONIA MELANOCARPA 'UCONNAM165' TM / LOW SCAPE MOUND BLACK CHOKEBERRY
	CA	CEANOTHUS AMERICANUS / NEW JERSEY TEA
	CH	CORNUS ALBA 'BAILHALO' TM / IVORY HALO DOGWOOD
	CG	CORNUS SANGUINEA 'CATO' / ARCTIC SUN BLOODTWIG DOGWOOD
	DX	DEUTZIA X 'NCDX1' / YUKI SNOWFLAKER DEUTZIA
	DL	DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE
	FM	FORSYTHIA X INTERMEDIA 'MINDOR' / SHOW OFF® FORSYTHIA
	FN	FORSYTHIA X INTERMEDIA 'NIMBUS' / SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
	DM	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM / LITTLE DEVIL DWARF NINEBARK
	PW	PHYSOCARPUS OPULIFOLIUS 'SEWARD' / SUMMER WINE NINEBARK
	PN	POTENTILLA FRUTICOSA 'GOLD DROP' / GOLD DROP BUSH CINQUEFOIL
	RG	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC
	ST	SPIRAEA BETULIFOLIA 'TOR GOLD' TM / GLOW GIRL BIRCHLEAF SPIREA
	SG	SPIRAEA JAPONICA 'YAN' / DOUBLE PLAY® GOLD SPIREA
	SF	SPIRAEA JAPONICA 'NEON FLASH' / NEON FLASH JAPANESE SPIREA
	SI	SYRINGA MEYERI 'PALIBIN' / DWARF KOREAN LILAC
	VA	VIBURNUM DENTATUM 'CHRISTOM' TM / BLUE MUFFIN ARROWWOOD VIBURNUM
EVERGREEN SHRUBS		
	BG	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD
	IC	ILEX X MESERVEAE 'CHINA BOY' / CHINA BOY® HOLLY
	JC	JUNIPERUS CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER
	JL	JUNIPERUS CHINENSIS 'GOLD LACE' / GOLD LACE JUNIPER
	JP	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT' / KALLAY COMPACT PFITZER JUNIPER
	JP2	JUNIPERUS COMMUNIS 'HORIZONTALIS' / HORIZONTAL JUNIPER
	TT5	PINUS MUGO VAR. PUMILO / DWARF MUGO PINE
	TE	TAXUS X MEDIA 'EVERLOW' / EVERLOW ANGLO-JAPANESE YEW
	TT	TAXUS X MEDIA 'TAUNTONII' / TAUNTON'S ANGLO-JAPANESE YEW
GRASSES		
	CK4	ANDROPOGON GERARDII 'BLACKHAWKS' / BLACKHAWK BIG BLUESTEM
	AR	ANDROPOGON GERARDII 'RED OCTOBER' / RED OCTOBER BIG BLUESTEM
	CK2	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
	DC	DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS
	PH	PANICUM VIRGATUM 'HEAVY METAL' / HEAVY METAL SWITCH GRASS
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	SC	SCHIZACHYRIUM SCOPARIUM 'CAROUSEL' / CAROUSEL LITTLE BLUESTEM
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED
PERENNIALS		
	AH	ACHILLEA MILLEFOLIUM 'STRAWBERRY SEDUCTION' / STRAWBERRY SEDUCTION COMMON YARROW
	AS	ALLIUM X 'SUMMER BEAUTY' / SUMMER BEAUTY ORNAMENTAL ONION
	AB	AMSONIA TABERNAEMONTANA 'BLUE ICE' / BLUE ICE EASTERN BLUESTAR
	AH2	ASCLEPIAS TUBEROSA 'HELLO YELLOW' / HELLO YELLOW BUTTERFLY MILKWEED
	EP	ECHINACEA X 'PICA BELLA' / PICA BELLA CONEFLOWER
	HR	HEMEROCALLIS X 'HAPPY RETURNS' / HAPPY RETURNS DAYLILY
	HE2	NEPETA FAASSENII 'WALKER'S LOW' / WALKER'S LOW CATMINT
	PD	PENSTEMON DIGITALIS / BEARDTONGUE
	RS	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACK-EYED SUSAN
	SA	SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM
GROUND COVERS		
		EMERGENT WETLAND PLUG MIX
		NO-MOW TURF SEED MIX
		PIZZO NATIVE PLANT NURSERY / WET-MESIC PRAIRIE SEED MIX
		TURF SEED
		WET-MESIC PLUG MIX

CONCEPT PLANT SCHEDULE

	EXISTING TREE	9

No.	REVISIONS	DATE	BY

Kimley»Horn
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LICENSED PROFESSIONAL
XXXX
ILLINOIS LICENSE NUMBER
XXXXX
DATE: 11/14/2025

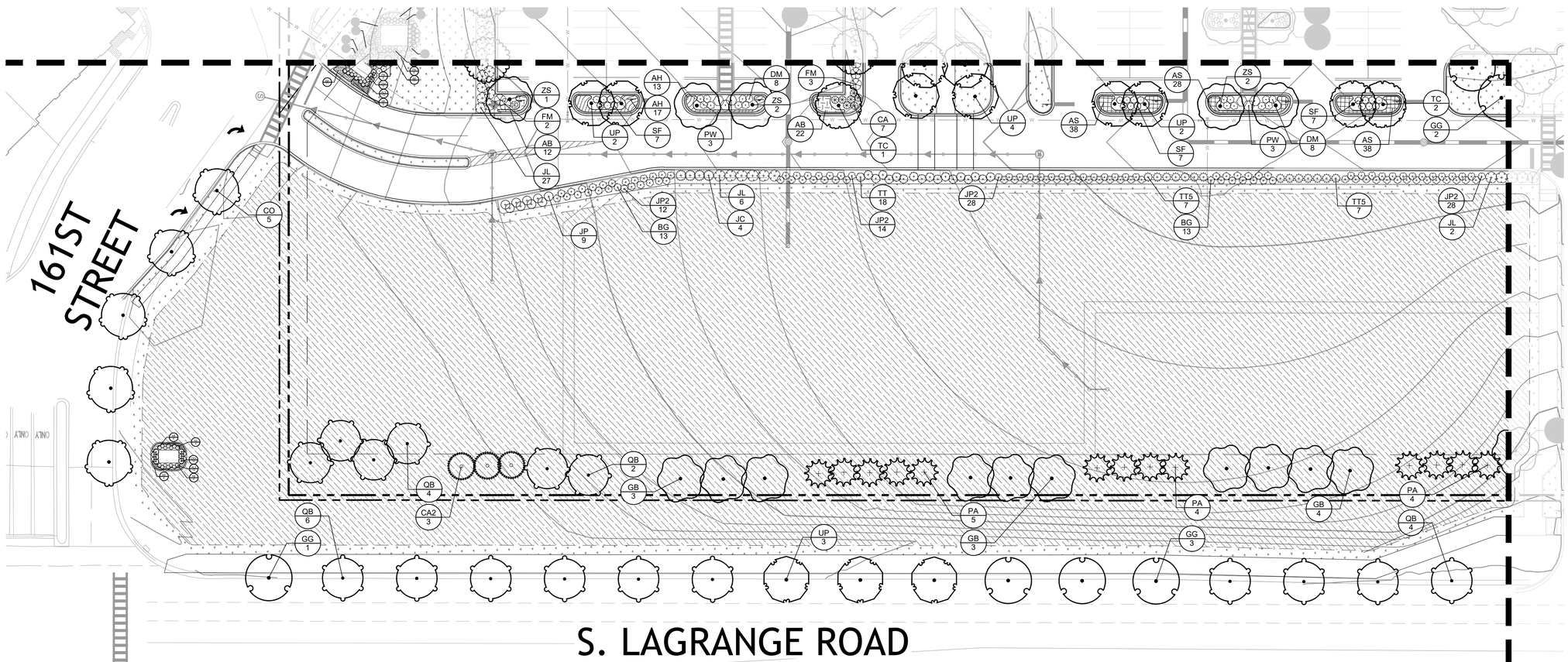
KHA PROJECT 149621089
DATE 11/14/2025
SCALE AS SHOWN
DESIGNED BY ###
DRAWN BY ###
CHECKED BY ###

LANDSCAPE PLAN

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L1.4



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	CG	CORNUS SANGUINEA 'CATO' / ARCTIC SUN BLOODTWIG DOGWOOD
	DX	DEUTZIA X 'NCDX1' / YUKI SNOWFLAKE® DEUTZIA
	DL	DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE
	FM	FORSYTHIA X INTERMEDIA 'MINDOR' / SHOW OFF® FORSYTHIA
	FN	FORSYTHIA X INTERMEDIA 'NIMBUS' / SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
	DM	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM / LITTLE DEVIL DWARF NINEBARK
	PW	PHYSOCARPUS OPULIFOLIUS 'SEWARD' / SUMMER WINE NINEBARK
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	ST	SPIRAEA BETULIFOLIA 'TOR GOLD' TM / GLOW GIRL BIRCHLEAF SPIREA
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	SI	SYRINGA MEYERI 'PALIBIN' / DWARF KOREAN LILAC
	VA	VIBURNUM DENTATUM 'CHRISTOM' TM / BLUE MUFFIN ARROWWOOD VIBURNUM
EVERGREEN SHRUBS		
	BG	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD
	IC	ILEX X MESERVEAE 'CHINA BOY' / CHINA BOY® HOLLY
	JC	JUNIPERUS CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER
	JL	JUNIPERUS CHINENSIS 'GOLD LACE' / GOLD LACE JUNIPER
	JP	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT' / KALLAY COMPACT PFITZER JUNIPER
	JP2	JUNIPERUS COMMUNIS 'HORIZONTALIS' / HORIZONTAL JUNIPER
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	TT	TAXUS X MEDIA 'TAUNTON'F / TAUNTON'S ANGLO-JAPANESE YEW
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	AS	ALLIUM X 'SUMMER BEAUTY' / SUMMER BEAUTY ORNAMENTAL ONION
	AB	AMSONIA TABERNAEMONTANA 'BLUE ICE' / BLUE ICE EASTERN BLUESTAR
	AHQ	ASCLEPIAS TUBEROSA 'HELLO YELLOW' / HELLO YELLOW BUTTERFLY MILKWEED
	EP	ECHINACEA X 'PICA BELLA' / PICA BELLA CONEFLOWER
	HR	HEMEROCALLIS X 'HAPPY RETURNS' / HAPPY RETURNS DAYLILY
	HE2	NEPETA FAASSENII 'WALKER'S LOW' / WALKER'S LOW CATMINT
	PD	PENSTEMON DIGITALIS / BEARDTONGUE
	RS	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACK-EYED SUSAN
	SA	SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM
SEED/PLUGS		
		EMERGENT WETLAND PLUG MIX
		NO-MOW TURF SEED MIX
		PIZZO NATIVE PLANT NURSERY / WET-MESIC PRAIRIE SEED MIX
		TURF SEED
		WET-MESIC PLUG MIX

CONCEPT PLANT SCHEDULE

	EXISTING TREE	9

No.	REVISIONS	DATE	BY

Kimley»Horn
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WARRENVILLE, ILLINOIS
630-487-5550
WWW.KIMLEY-HORN.COM

LICENSED PROFESSIONAL
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ILLINOIS LICENSE NUMBER
XXXX
DATE: 11/14/2025

KHA PROJECT
149621089
DATE
11/14/2025
SCALE AS SHOWN
DESIGNED BY ####
DRAWN BY ####
CHECKED BY ####

LANDSCAPE PLAN

159TH & LAGRANGE RETAIL
CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L1.5

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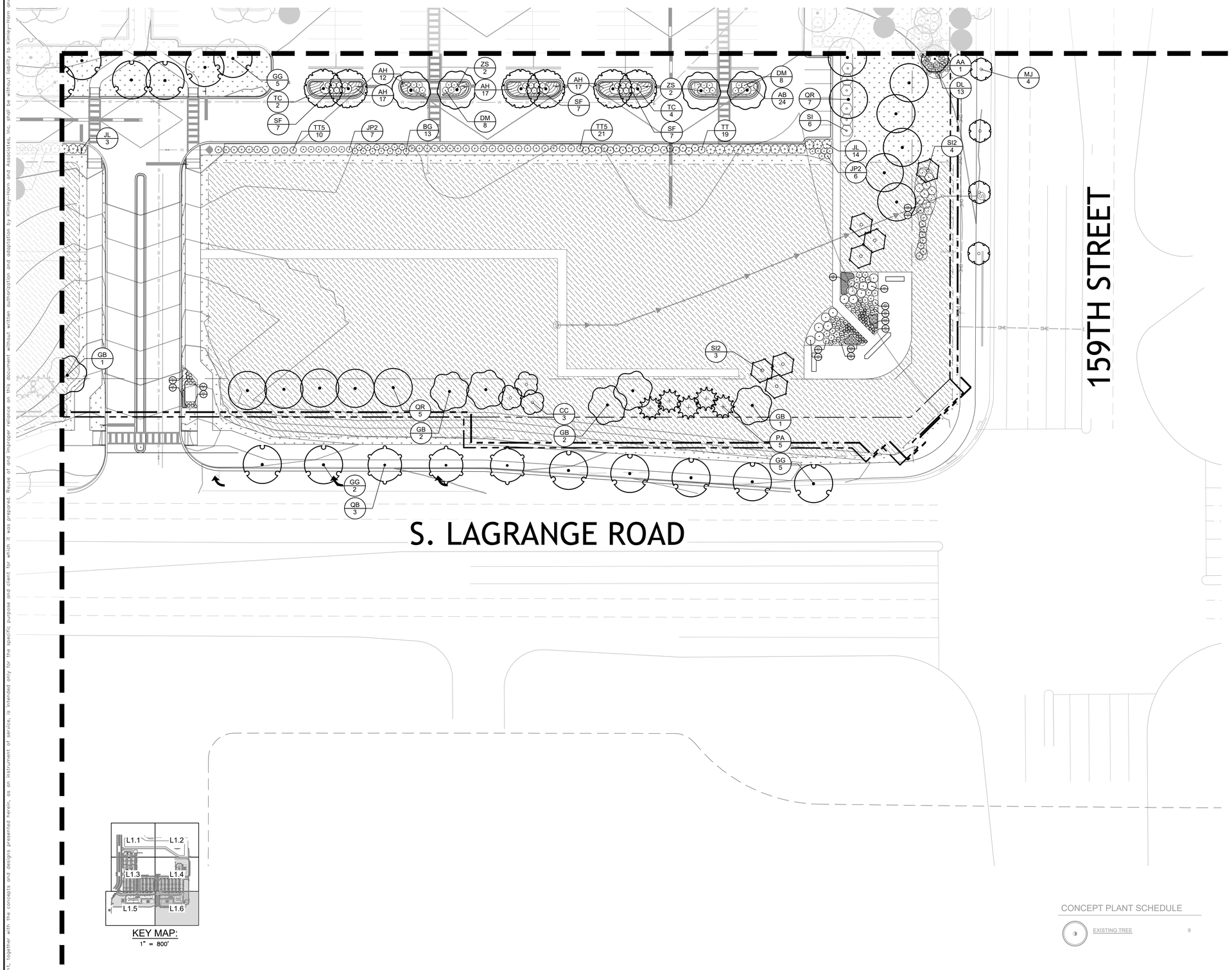

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	AA	ACER X FREEMANII 'ARMSTRONG' / ARMSTRONG FREEMAN MAPLE
	CO	CELTIS OCCIDENTALIS / COMMON HACKBERRY
	GB	GINKGO BILOBA 'AUTUMN GOLD' / AUTUMN GOLD GINKGO - MALE ONLY
	GG	GLEDITSIA TRIACANTHOS INERMIS 'GREEN GLORY' / GREEN GLORY HONEY LOCUST
	GD	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE
	ZS	NYSSA SYLVATICA / BLACK TUPELO
	QB	QUERCUS BICOLOR / SWAMP WHITE OAK
	QM	QUERCUS MACROCARPA / BURR OAK
	QR	QUERCUS RUBRA / RED OAK
	TD	TAXODIUM DISTICHUM / BALD CYPRESS
	TC	TILLIA AMERICANA 'MCKSENTRY' / MCKSENTRY LINDEN
	UP	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM
EVERGREEN TREES		
	JE	JUNIPERUS VIRGINIANA / EASTERN REDCEDAR
	PA	PICEA ABIES / NORWAY SPRUCE
	PS	PINUS STROBUS / WHITE PINE
	PM	PSUEDOTSUGA MENZIESII / DOUGLAS FIR
	EH	TSUGA CANADENSIS / EASTERN HEMLOCK
ORNAMENTAL TREES		
	AL	AMELANCHER LAEVIS / ALLEGHENY SERVICEBERRY - MULTI STEM
	BR	BETULA NIGRA / RIVER BIRCH - MULTISTEM
	CA2	CARPINUS CAROLINIANA / AMERICAN HORNBEAM - SINGLE STEM
	CC	CERCIS CANADENSIS / EASTERN REDBUD - SINGLE STEM
	CR	CRATAEGUS CRUS-GALLI VAR. INERMIS / COCKSPUR HAWTHORN - SINGLE STEM
	MJ	MALUS X 'JEWELCOLE' / RED JEWEL™ CRABAPPLE - SINGLE STEM
	MP	MALUS X 'PRARIFIRE' / PRAIRIFIRE CRABAPPLE - SINGLE STEM
	OV	OSTRYA VIRGINIANA / AMERICAN HORHORNBEAM - SINGLE STEM
	SI2	SYRINGA RETICULATA 'IVORY SILK' / IVORY SILK JAPANESE LILAC - SINGLE STEM
SHRUBS		
	AM	ARONIA MELANOCARPA 'MORTON' TM / IROQUOIS BEAUTY BLACK CHOKEBERRY
	AL3	ARONIA MELANOCARPA 'UCONNAMHIST TM / LOW SCAPE MOUND BLACK CHOKEBERRY
	CA	CEANOTHUS AMERICANUS / NEW JERSEY TEA
	CH	CORNUS ALBA 'BAILHALO' TM / IVORY HALO DOGWOOD
	CG	CORNUS SANGUINEA 'CATO' / ARCTIC SUN BLOODTWIG DOGWOOD
	DX	DEUTZIA X 'NCDX1' / YUKI SNOWFLAKER DEUTZIA
	DL	DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE
	FM	FORSYTHIA X INTERMEDIA 'MINDOR' / SHOW OFF® FORSYTHIA
	FN	FORSYTHIA X INTERMEDIA 'NIMBUS' / SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
	DM	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM / LITTLE DEVIL DWARF NINEBARK
	PW	PHYSOCARPUS OPULIFOLIUS 'SEWARD' / SUMMER WINE NINEBARK
	PN	POTENTILLA FRUTICOSA 'GOLD DROP' / GOLD DROP BUSH CINQUEFOIL
	RG	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC
	ST	SPIRAEA BETULFOLIA 'TOR GOLD' TM / GLOW GIRL BIRCHLEAF SPIREA
	SG	SPIRAEA JAPONICA 'YAN' / DOUBLE PLAY® GOLD SPIREA
	SF	SPIRAEA JAPONICA 'NEON FLASH' / NEON FLASH JAPANESE SPIREA
	SI	SYRINGA MEYERI 'PALIBIN' / DWARF KOREAN LILAC
	VA	VIBURNUM DENTATUM 'CHRISTOM' TM / BLUE MUFFIN ARROWWOOD VIBURNUM
EVERGREEN SHRUBS		
	BG	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD
	IC	ILEX X MESERVEAE 'CHINA BOY' / CHINA BOY® HOLLY
	JC	JUNIPERUS CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER
	JL	JUNIPERUS CHINENSIS 'GOLD LACE' / GOLD LACE JUNIPER
	JP	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT' / KALLAY COMPACT PFITZER JUNIPER
	JP2	JUNIPERUS COMMUNIS 'HORIZONTALIS' / HORIZONTAL JUNIPER
	TT5	PINUS MUGO VAR. PUMILO / DWARF MUGO PINE
	TE	TAXUS X MEDIA 'EVERLOW' / EVERLOW® ANGLO-JAPANESE YEW
	TT	TAXUS X MEDIA 'TAUNTONII' / TAUNTON'S ANGLO-JAPANESE YEW
GRASSES		
	CK4	ANDROPOGON GERARDII 'BLACKHAWKS' / BLACKHAWK BIG BLUESTEM
	AR	ANDROPOGON GERARDII 'RED OCTOBER' / RED OCTOBER BIG BLUESTEM
	CK2	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS
	DC	DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS
	PH	PANICUM VIRGATUM 'HEAVY METAL' / HEAVY METAL SWITCH GRASS
	PG2	PANICUM VIRGATUM 'NORTHWIND' / NORTHWIND SWITCH GRASS
	PP	PENNISETUM ALOPECUROIDES 'PIGLET' / PIGLET DWARF FOUNTAIN GRASS
	SC	SCHIZACHYRIUM SCOPARIUM 'CAROUSEL' / CAROUSEL LITTLE BLUESTEM
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED
PERENNIALS		
	AH	ACHILLEA MILLEFOLIUM 'STRAWBERRY SEDUCTION' / STRAWBERRY SEDUCTION COMMON YARROW
	AS	ALLIUM X 'SUMMER BEAUTY' / SUMMER BEAUTY ORNAMENTAL ONION
	AB	AMSONIA TABERNAEMONTANA 'BLUE ICE' / BLUE ICE EASTERN BLUESTAR
	AH2	ASCLEPIAS TUBEROSA 'HELLO YELLOW' / HELLO YELLOW® BUTTERFLY MILKWEED
	EP	ECHINACEA X 'PICA BELLA' / PICA BELLA CONEFLOWER
	HR	HEMEROCALLIS X 'HAPPY RETURNS' / HAPPY RETURNS DAYLILY
	HE2	NEPETA FAASSENII 'WALKER'S LOW' / WALKER'S LOW CATMINT
	PD	PENSTEMON DIGITALIS / BEARDTONGUE
	RS	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACK-EYED SUSAN
	SA	SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM
GROUND COVERS		
		EMERGENT WETLAND PLUG MIX
		NO-MOW TURF SEED MIX
		PIZZO NATIVE PLANT NURSERY / WET-MESIC PRAIRIE SEED MIX
		TURF SEED
		WET-MESIC PLUG MIX

CONCEPT PLANT SCHEDULE

EXISTING TREE 9

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CHECKED BY ####

LANDSCAPE PLAN

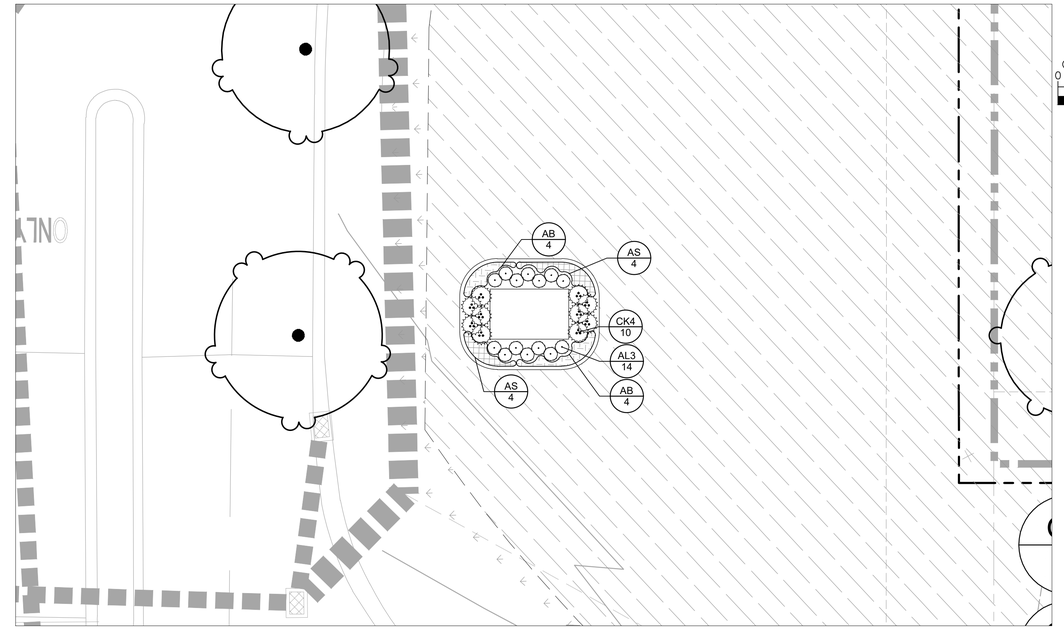
159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L1.6

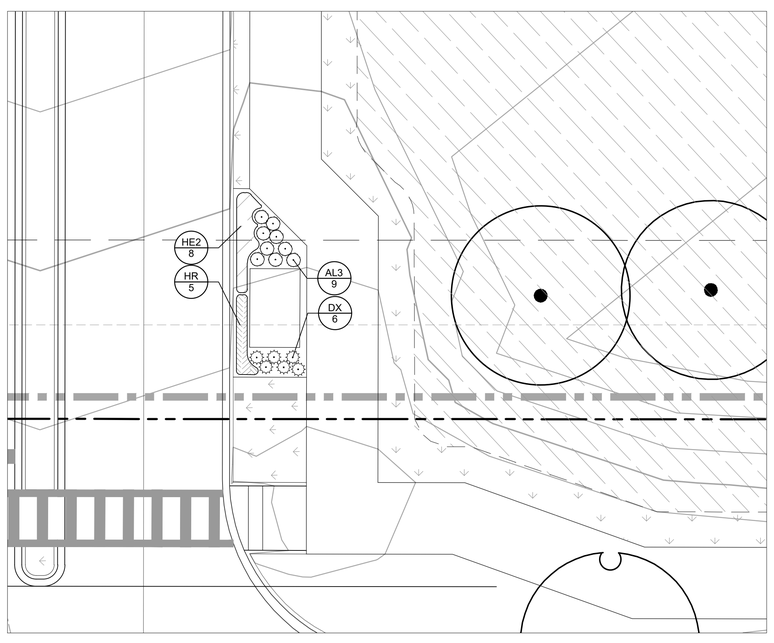
A MONUMENT SIGN LANDSCAPE ENLARGEMENT "A"

1" = 10'



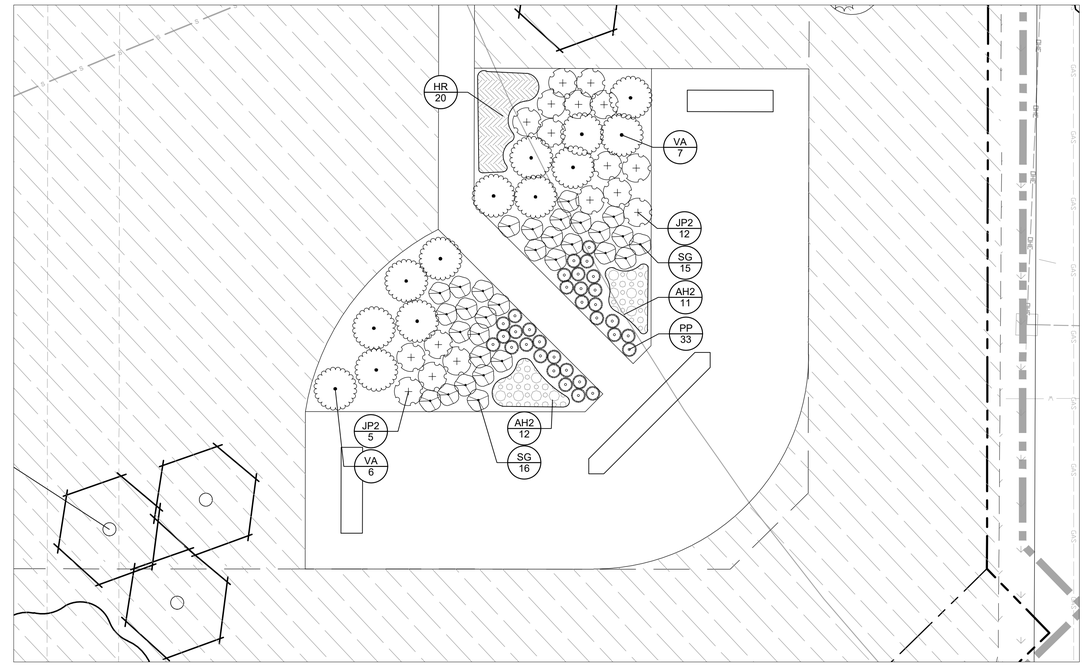
B MONUMENT SIGN LANDSCAPE ENLARGEMENT "B"

1" = 10'



C MONUMENT SIGN LANDSCAPE ENLARGEMENT "C"

1" = 10'



D MONUMENT SIGN LANDSCAPE ENLARGEMENT "D"

1" = 10'

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

Call Before You Dig
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CHECKED BY ###

MONUMENT SIGN ENLARGEMENTS

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
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PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES						
	AA	21	ACER X FREEMANII 'ARMSTRONG' / ARMSTRONG FREEMAN MAPLE CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL. MIN.	
	CO	40	CELTIS OCCIDENTALIS / COMMON HACKBERRY NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	GB	36	GINKGO BILOBA 'AUTUMN GOLD' / AUTUMN GOLD GINKGO - MALE ONLY	B & B	2.5" CAL MIN	
	GG	35	GLEDITSIA TRIACANTHOS INERMIS 'GREEN GLORY' / GREEN GLORY HONEY LOCUST CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	GD	45	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	ZS	59	NYSSA SYLVATICA / BLACK TUPELO NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	QB	43	QUERCUS BICOLOR / SWAMP WHITE OAK NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	QM	28	QUERCUS MACROCARPA / BURR OAK NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	QR	30	QUERCUS RUBRA / RED OAK NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	TD	29	TAXODIUM DISTICHUM / BALD CYPRESS NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	TC	36	TILLIA AMERICANA 'MCKSENTRY' / MCKSENTRY LINDEN CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
	UP	43	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2.5" CAL MIN	
EVERGREEN TREES						
	JE	13	JUNIPERUS VIRGINIANA / EASTERN REDCEDAR NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	6` HT. MIN.	
	PA	18	PICEA ABIES / NORWAY SPRUCE	B & B	6` HT. MIN.	
	PS	7	PINUS STROBUS / WHITE PINE NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	6` HT. MIN.	
	PM	15	PSUEDOTSUGA MENZIESII / DOUGLAS FIR	B & B	6` HT. MIN.	
	EH	6	TSUGA CANADENSIS / EASTERN HEMLOCK NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	6` HT. MIN.	
ORNAMENTAL TREES						
	AL	16	AMELANCHIER LAEVIS / ALLEGHENY SERVICEBERRY - MULTI STEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	6` HT. MIN.	
	BR	28	BETULA NIGRA / RIVER BIRCH - MULTISTEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	6` HT. MIN.	
	CA2	9	CARPINUS CAROLINIANA / AMERICAN HORNBEAM - SINGLE STEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	CC	16	CERCIS CANADENSIS / EASTERN REDBUD - SINGLE STEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	CR	17	CRATAEGUS CRUS-GALLI VAR. INERMIS / COCKSPUR HAWTHORN - SINGLE STEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	MJ	16	MALUS X 'JEWELCOLE' / RED JEWEL™ CRABAPPLE - SINGLE STEM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	MP	10	MALUS X 'PRAIRIFIRE' / PRAIRIFIRE CRABAPPLE - SINGLE STEM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	OV	8	OSTRYA VIRGINIANA / AMERICAN HOPHORNBEAM - SINGLE STEM NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	B & B	2" CAL. MIN.	
	SI2	13	SYRINGA RETICULATA `IVORY SILK` / IVORY SILK JAPANESE LILAC - SINGLE STEM	B & B	2" CAL. MIN.	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	SIZE
SHRUBS						
	AM	120	ARONIA MELANOCARPA 'MORTON' TM / IROQUOIS BEAUTY BLACK CHOKEBERRY CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT. MIN.
	AL3	60	ARONIA MELANOCARPA 'UCONNAM165' TM / LOW SCAPE MOUND BLACK CHOKEBERRY CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	6" HT. MIN.
	CA	152	CEANOTHUS AMERICANUS / NEW JERSEY TEA NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT. MIN.
	CH	99	CORNUS ALBA 'BAILHALO' TM / IVORY HALO DOGWOOD	-	SEE PLAN	24" HT MIN
	CG	128	CORNUS SANGUINEA `CATO` / ARCTIC SUN BLOODTWIG DOGWOOD	-	SEE PLAN	24" HT. MIN.
	DX	100	DEUTZIA X 'NCDX1' / YUKI SNOWFLAKE® DEUTZIA	-	SEE PLAN	6" HT. MIN.
	DL	114	DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT. MIN.
	FM	65	FORSYTHIA X INTERMEDIA 'MINDOR' / SHOW OFF® FORSYTHIA	-	SEE PLAN	18" HT. MIN.
	FN	104	FORSYTHIA X INTERMEDIA 'NIMBUS' / SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	-	SEE PLAN	6" HT. MIN.
	DM	119	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM / LITTLE DEVIL DWARF NINEBARK CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT. MIN.
	PW	113	PHYSOCARPUS OPULIFOLIUS 'SEWARD' / SUMMER WINE NINEBARK CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	24" HT. MIN.
	PN	51	POTENTILLA FRUTICOSA 'GOLD DROP' / GOLD DROP BUSH CINQUEFOIL CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT. MIN.
	RG	85	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	18" HT MIN
	ST	100	SPIRAEA BETULIFOLIA 'TOR GOLD' TM / GLOW GIRL BIRCHLEAF SPIREA	-	SEE PLAN	18" HT MIN
	SG	95	SPIRAEA JAPONICA `YAN` / DOUBLE PLAY® GOLD SPIREA	-	SEE PLAN	6" HT. MIN.
	SF	150	SPIRAEA JAPONICA 'NEON FLASH' / NEON FLASH JAPANESE SPIREA	-	SEE PLAN	18" HT. MIN.
	SI	54	SYRINGA MEYERI `PALIBIN` / DWARF KOREAN LILAC	-	SEE PLAN	24" HT. MIN.
	VA	92	VIBURNUM DENTATUM 'CHRISTOM' TM / BLUE MUFFIN ARROWWOOD VIBURNUM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	24" HT. MIN.
EVERGREEN SHRUBS						
	BG	94	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD	-	SEE PLAN	18" HT. MIN.
	IC	88	ILEX X MESERVEAE `CHINA BOY` / CHINA BOY® HOLLY	-	SEE PLAN	18" HT MIN
	JC	188	JUNIPERUS CHINENSIS `SEA GREEN` / SEA GREEN JUNIPER	-	SEE PLAN	24" HT. MIN.
	JL	74	JUNIPERUS CHINENSIS 'GOLD LACE' / GOLD LACE JUNIPER	-	SEE PLAN	18" HT. MIN.
	JP	86	JUNIPERUS CHINENSIS 'KALLAYS COMPACT' / KALLAY COMPACT PFITZER JUNIPER	-	SEE PLAN	24" HT. MIN.
	JP2	164	JUNIPERUS COMMUNIS 'HORIZONTALIS' / HORIZONTAL JUNIPER CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	-	SEE PLAN	10" HT. MIN.
	TT5	77	PINUS MUGO VAR. PUMILO / DWARF MUGO PINE	-	SEE PLAN	18" HT MIN
	TE	53	TAXUS X MEDIA 'EVERLOW' / EVERLOW ANGLO-JAPANESE YEW	-	SEE PLAN	18" HT MIN
	TT	59	TAXUS X MEDIA 'TAUNTONII' / TAUNTON'S ANGLO-JAPANESE YEW	-	SEE PLAN	18" HT MIN
GRASSES						
	CK4	15	ANDROPOGON GERARDII 'BLACKHAWKS' / BLACKHAWK BIG BLUESTEM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
	AR	16	ANDROPOGON GERARDII 'RED OCTOBER' / RED OCTOBER BIG BLUESTEM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
	CK2	13	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	2 GAL	SEE PLAN	
	DC	20	DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS	2 GAL	SEE PLAN	
	PH	14	PANICUM VIRGATUM 'HEAVY METAL' / HEAVY METAL SWITCH GRASS CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
	PG2	20	PANICUM VIRGATUM 'NORTHWIND' / NORTHWIND SWITCH GRASS CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
	PP	33	PENNISETUM ALOPECUROIDES `PIGLET` / PIGLET DWARF FOUNTAIN GRASS	2 GAL	SEE PLAN	
	SC	47	SCHIZACHYRIUM SCOPARIUM 'CAROUSEL' / CAROUSEL LITTLE BLUESTEM CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
	SH	32	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	2 GAL	SEE PLAN	
PERENNIALS						
	AH	98	ACHILLEA MILLEFOLIUM 'STRAWBERRY SEDUCTION' / STRAWBERRY SEDUCTION COMMON YARROW	1 GAL	36" O.C.	
	AS	232	ALLIUM X 'SUMMER BEAUTY' / SUMMER BEAUTY ORNAMENTAL ONION CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	1 GAL	24" O.C.	
	AB	136	AMSONIA TABERNAEMONTANA 'BLUE ICE' / BLUE ICE EASTERN BLUESTAR	1 GAL	24" O.C.	
	AH2	71	ASCLEPIAS TUBEROSA `HELLO YELLOW` / HELLO YELLOW BUTTERFLY MILKWEED	1 GAL.	24" O.C.	
	EP	147	ECHINACEA X 'PICA BELLA' / PICA BELLA CONEFLOWER CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	1 GAL	24" O.C.	
	HR	76	HEMEROCALLIS X 'HAPPY RETURNS' / HAPPY RETURNS DAYLILY	1 GAL	24" O.C.	
	HE2	182	NEPETA FAASSENII 'WALKER'S LOW' / WALKER'S LOW CATMINT	1 GAL.	24" O.C.	
	PD	80	PENSTEMON DIGITALIS / BEARDTONGUE NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	1 GAL	24" O.C.	
	RS	114	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACK-EYED SUSAN CULTIVAR OF A NATIVE SPECIES ACCORDING TO SWINK AND WILHELM'S PLANTS OF THE CHICAGO REGION.	1 GAL	24" O.C.	
	SA	92	SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM	1 GAL	24" O.C.	

SYMBOL	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
GROUND COVERS				
	EMERGENT WETLAND PLUG MIX	PLUGS		
	NO-MOW TURF SEED MIX	SEED		
	PIZZO NATIVE PLANT NURSERY / WET-MESIC PRAIRIE SEED MIX	SEED		
	TURF SEED	-		
	WET-MESIC PLUG MIX	PLUGS		

EMERGENT WETLAND PLUG MIX

BOTANICAL NAME	COMMON NAME	QTY / ACRE	% OF TOTAL
Acorus calamus	Sweet Flag	300	5%
Asclepias incarnata	Swamp Milkweed	300	5%
Iris virginica	Iris	300	5%
Lobelia siphilitica	Great Blue Lobelia	300	5%
Lythrum alatum	Winged Loosestrife	200	3%
Polygonum amphibium	Knotweed	500	8%
Pontedaria cordata	Pickerel Plant	500	8%
Rudbeckia laciniata	Cut Leaf Coneflower	300	5%
Sagitaria latifolia	Arrowhead	300	5%
Scirpus acutus	Hard Stemmed Bulrush	500	8%
Scirpus atrovirens	Dark Green Bulrush	500	8%
Scirpus fluviatilis	River Bulrush	500	8%
Solidago riddellii	Riddell's Goldenrod	200	3%
Sparganium americanum	Bur Reed	500	8%
Spartina pectinata	Prairiecord Grass	500	8%
Symphyotrichum puniceum	Stemmed Aster	300	5%
	TOTAL PLUGS PER ACRE:	6,000	

~~CONTRACTOR TO INSTALL~~ PLUGS 2 FEET ON CENTER IN A TRIANGLE PATTERN (NOT GIRD PATTERN). FINAL PLUG MIX TO BE DETERMINED BASED ON PLANT AVAILABILITY.

WET-MESIC PRAIRIE PLUG MIX

BOTANICAL NAME	COMMON NAME	QTY / ACRE	% OF TOTAL
Bouteloua curtipendula	Side Oats Grama	600	10%
Carex vulpinoidea	Fox Sedge	600	10%
Echinacea purpurea	Purple Coneflower	1,000	17%
Elymus canadensis	Canada Wild Rye	600	10%
Juncus effusus	Common Rush	700	12%
Monarda fistulosa	Wild Bergamot	1,500	25%
Panicum virgatum	Switch Grass	600	10%
Rudbeckia hirta	Black-Eyed Susan	400	7%
Verbena hastata	Blue Vervain	1,500	25%
	TOTAL PLUGS PER ACRE:	6,000	

CONTRACTOR TO INSTALL PLUGS 2-3 FEET ON CENTER IN A TRIANGLE PATTERN (NOT GIRD PATTERN). FINAL PLUG MIX TO BE DETERMINED BASED ON PLANT AVAILABILITY.

IN PROGRESS

	TOTAL NUMBER OF PLANTS PER TYPE	MAXIMUM % OF ANY SPECIES	MINIMUM % OF ANY SPECIES	% OF NATIVE SPECIES PER PLANT TYPE	MINIMUM NUMBER OF SPECIES
SHADE TREES					
REQUIRED	N/A	30% = 133.8 TREES	5% = 22.3 TREES	30% = 133.8 TREES	8 SPECIES
PROPOSED	446 TREES TOTAL	COMPLIES *	COMPLIES *	409 NATIVE TREES	12 SPECIES
EVERGREEN TREES					
REQUIRED	N/A	40% = 23.6 TREES	10% = 5.9 TREES	30% = 17.7 TREES	5 SPECIES
PROPOSED	59 TREES TOTAL	COMPLIES *	COMPLIES *	26 NATIVE TREES	5 SPECIES
ORNAMENTAL TREES					
REQUIRED	N/A	30% = 38.4 TREES	5% = 6.4 TREES	30% = 38.4 TREES	8 SPECIES
PROPOSED	128 TREES TOTAL	COMPLIES *	COMPLIES *	97 NATIVE TREES	9 SPECIES
DECIDUOUS SHRUBS					
REQUIRED	N/A	15% = 224.9 SHRUBS	[illegible]% = 75 SHRUBS	30% = 449.7 SHRUBS	15 SPECIES
PROPOSED	1,499 SHRUBS TOTAL	COMPLIES *	COMPLIES *	742 NATIVE SHRUBS	15 SPECIES
ORNAMENTAL GRASSES					
REQUIRED	N/A	30% = 64.2 GRASSES	5% = 10.7 GRASSES	30% = 64.2 GRASSES	8 SPECIES
PROPOSED	214 GRASSES TOTAL	COMPLIES *	COMPLIES *	14[illegible] NATIVE GRASSES	9 SPECIES
PERENNIALS					
REQUIRED	N/A	25% = 238.8 PERENNIALS	5% = 47.7 PERENNIALS	30% = 286.5 PERENNIALS	10 SPECIES
PROPOSED	955 PERENNIALS TOTAL	COMPLIES *	COMPLIES *	488 NATIVE PERENNIALS	10 SPECIES

NO-MOW TURF SEED MIX

BOTANICAL NAME	COMMON NAME	LBS / ACRE	% OF TOTAL
GRASSES, SEDGES, & RUSHES			
Lolium perenne	Perennial Rye	25.0	13%
Agrostis gigantea	Red Top	15.0	8%
Festuca rubra	Creeping Red Fescue	80.0	40%
Festuca arundinacea	Tall Fescue	20.0	10%
Festuca ovina	Sheep's Fescue	20.0	10%
Poa pratensis	Kentucky Bluegrass	40.0	20%
	SEED MIX TOTAL LBS PER ACRE:	200	

Pizzo NATIVE PLANT NURSERY

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Wet-Mesic Prairie Seed Mix (Wet-Mesic Soils)

MIX STATISTICS	
Base Mix Without Supplemental Plugs	
Average Mix Height (ft)	3.0
Median Mix Height (ft)	4.0
Species Heights (# of Occurrences in Mix)	1.5' (1), 2' (8), 3' (10), **4' (14)**, 5' (7), 6' (2), 7' (2), 8' (1), 9' (1)
Number of Native Species in Mix	46
Native FQI	32.0
Native Mean C Value	4.7
Native Mean W Value	-1.3
National Wetland Category	FACW-
Lbs/Acre of Native Seed	15.8
Seeds per Square Foot	210.5
Percent of Mix (by Seed Count) Requiring Stratification	79.1%

Designed for sunny areas that are moist to wet; however, they may dry out completely in the height of summer, or more extensively in particularly dry years. Most of the species in this mix can take consistently saturated soils, while about 1/3 of the species are adapted to facultative upland conditions. Over 43% of this mix is a diverse composition of wildflowers that bloom from April through October resulting in a medium to tall prairie with an average height of 3.0' by seed count, and less than 10% of species typically averaging 5.0' high or more at maturity.

Grasses, Sedges, & Rushes

CODE	SCIENTIFIC NAME	COMMON NAME	C-VALUE	W-VALUE	WETNESS	HEIGHT Min-Max	HEIGHT Typical	BLOOM COLOR	BLOOM TIME (A M J J A S O)	SEEDS/OZ	OZ/ACRE	LB/ACRE	% OF MIX by Weight	% OF MIX by Seed Count	GERMINATION	TOP SOW
CALCAN	*Calamagrostis canadensis*	Blue Joint Grass	3	-5	OBL	2-5'	4	N/A		280,000	0.75	0.05	0.30%	2.29%	N/A	
CXBREV	*Carex brevior*	Plains Oval Sedge	4	0	FAC	1-3'	2	N/A		29,000	2.00	0.13	0.79%	0.63%	CM-60	0
CXCRIS	*Carex cristatella*	Crested Oval Sedge	4	-3	FACW	2-4'	3	N/A		58,000	1.50	0.09	0.59%	0.95%	CM-60	0
CXMOLE	*Carex molesta*	Field Oval Sedge	2	0	FAC	1-2.5'	2	N/A		25,000	4.00	0.25	1.58%	1.09%	CM-60	NO
CXSCOP	*Carex scoparia*	Lance-fruited Oval Sedge	7	-3	FACW	1-3'	2	N/A		84,000	2.00	0.13	0.79%	1.83%	CM-60	0
CXSTIP	*Carex stipata*	Common Fox Sedge	3	-5	OBL	1.5-3'	3	N/A		34,000	2.00	0.13	0.79%	0.74%	CM-60	NO
CXVULP	*Carex vulpinoidea*	Brown Fox Sedge	2	-3	FACW	1.5-3.5'	3	N/A		100,000	4.00	0.25	1.58%	4.36%	CM-60	
ELEPAL	*Eleocharis palustris*	Great Spike Rush	2	-5	OBL	1-3.5'	2	N/A		51,000	1.00	0.06	0.40%	0.56%	CM-60	
ELYVIR	*Elymus virginicus*	Virginia Wild Rye	4	-3	FACW	2.5-4'	4	N/A		4,200	48.00	3.00	18.96%	2.20%	N/A	NO
GLYSTR	*Glyceria striata*	Fowl Manna Grass	4	-5	OBL	2-3.5'	3	N/A		90,000	2.00	0.13	0.79%	1.96%	N/A	
JUNDUD	*Juncus dudleyi*	Dudley's Rush	4	-3	FACW	1-2.5'	2	N/A		3,200,000	1.00	0.06	0.40%	34.91%	CM-60	
PANVIR	*Panicum virgatum*	Switch Grass	5	0	FAC	3-6'	4	N/A		14,000	16.00	1.00	6.32%	2.44%	N/A	0
SCIATR	*Scirpus atrovirens*	Dark-green Bulrush	4	-5	OBL	2-6'	5	N/A		460,000	0.13	0.01	0.05%	0.63%	CM-60 or M	
SPAPEC	*Spartina pectinata*	Cord Grass	4	-3	FACW	3-9'	7	N/A		6,600	32.00	2.00	12.64%	2.30%	N/A	0
										Grass/Sedge Subtotals		7.273	45.98%	56.90%		

Wildflowers

CODE	SCIENTIFIC NAME	COMMON NAME	C-VALUE	W-VALUE	WETNESS	HEIGHT Min-Max	HEIGHT Typical	BLOOM COLOR	BLOOM TIME (A M J J A S O)	SEEDS/OZ	OZ/ACRE	LB/ACRE	% OF MIX by Weight	% OF MIX by Seed Count	GERMINATION	TOP SOW
ALLCER	*Allium cernuum*	Nodding Onion	7	3	FACU	1-2'	1.5	Purple		7,600	12.00	0.75	4.74%	0.99%	CM-60	0
ASCINC	*Asclepias incarnata*	Swamp Milkweed	4	-5	OBL	3-6'	4	Pink		4,800	6.00	0.38	2.37%	0.31%	CM-30	0
BIDCER	*Bidens cernua*	Nodding Bur Marigold	5	-5	OBL	1-3'	3	Yellow		21,000	1.50	0.09	0.59%	0.34%	CM-60	0
BOLAST	*Boltonia asteroides*	False Aster	9	-5	OBL	3-5'	4	White		160,000	0.50	0.03	0.20%	0.87%	CM-60	
CHAFAS	*Chamaecrista fasciculata*	Partridge Pea	5	3	FACU	6"-2'	2	Yellow		2,700	16.00	1.00	6.32%	0.47%	CM-10, H, I	0
CORTRI	*Coreopsis tripteris*	Tall Coreopsis	5	0	FAC	3-8'	7	Yellow		14,000	4.00	0.25	1.58%	0.61%	CM-60	0
DESCAA	*Desmodium canadense*	Showy Tick Trefoil	4	3	FACU	3-6'	4	Purple		5,500	3.00	0.19	1.19%	0.18%	J, I	0
DOEUMB	*Doellingeria umbellata*	Flat-topped Aster	9	-3	FACW	2-5'	5	Cream		67,000	1.50	0.09	0.59%	1.10%	CM-60	0
ECHPUR	*Echinacea purpurea*	Purple Coneflower	3	5	UPL	2-5'	4	Purple		6,600	4.00	0.25	1.58%	0.29%	N/A	0
ERYYUC	*Eryngium yuccifolium*	Rattlesnake Master	9	0	FAC	2-5'	4	White		7,500	16.00	1.00	6.32%	1.31%	CM-60	0
EUPPER	*Eupatorium perfoliatum*	Boneset	4	-5	OBL	3-4'	4	White		160,000	0.25	0.02	0.10%	0.44%	CM-30	
EUTGRA	*Euthamia graminifolia*	Grass-leaved Goldenrod	4	-3	FACW	2-4'	3	Yellow		350,000	1.00	0.06	0.40%	3.82%	CM-60	
EUTMAC	*Eutrochium maculatum*	Spotted Joe Pye Weed	4	-5	OBL	3-6'	5	Pink		95,000	0.50	0.03	0.20%	0.52%	CM-30	
HELAUT	*Helenium autumnale*	Sneezeweed	5	-3	FACW	2-5'	4	Yellow		130,000	1.00	0.06	0.40%	1.42%	N/A	
LIAPYC	*Liatris pycnostachya*	Prairie Blazing Star	8	0	FAC	2-4'	4	Purple		11,000	6.00	0.38	2.37%	0.72%	CM-60	0
LIASPI	*Liatris spicata*	Marsh Blazing Star	6	0	FAC	2-5'	5	Purple		11,000	2.00	0.13	0.79%	0.24%	CM-60	0
MONFIS	*Monarda fistulosa*	Wild Bergamot	4	3	FACU	2.5-4'	4	Purple		70,000	4.00	0.25	1.58%	3.05%	N/A	0
PENDIG	*Penstemon digitalis*	Foxglove Beardtongue	4	0	FAC	2-3'	3	White		130,000	2.00	0.13	0.79%	2.84%	CM-30, G	
PYCVIR	*Pycnanthemum virginianum*	Virginia Mountain Mint	5	-3	FACW	1-4'	3	White		220,000	2.00	0.13	0.79%	4.80%	N/A	
RUDHIR	*Rudbeckia hirta*	Black-eyed Susan	1	3	FACU	2-3'	2	Yellow		92,000	8.00	0.50	3.16%	8.03%	CM-30	0
RUDSUB	*Rudbeckia subtomentosa*	Sweet Black-eyed Susan	9	3	FACU	3-6'	5	Yellow		43,000	2.00	0.13	0.79%	0.94%	CM-30	NO
RUDTRI	*Rudbeckia triloba*	Brown-eyed Susan	3	3	FACU	2-6'	5	Yellow		34,000	2.00	0.13	0.79%	0.74%	CM-30	No
SILLAC	*Silphium laciniatum*	Compass Plant	5	5	UPL	6-12'	8	Yellow		660	6.00	0.38	2.37%	0.04%	CM-60	0
SILTER	*Silphium terebinthinaceum*	Prairie Dock	5	0	FAC	4-10'	9	Yellow		1,000	3.00	0.19	1.19%	0.03%	CM-60	0
SOLRID	*Solidago riddellii*	Riddell's Goldenrod	7	-5	OBL	2-4'	3	Yellow		93,000	0.50	0.03	0.20%	0.51%	CM-60	
SOLRIG	*Solidago rigida*	Stiff Goldenrod	4	3	FACU	2-5'	4	Yellow		41,000	4.00	0.25	1.58%	1.79%	CM-60	0
SYMNOV	*Symphyotrichum novae-angliae*	New England Aster	4	-3	FACW	3-5'	4	Purple		66,000	3.00	0.19	1.19%	2.16%	CM-60	0
THADAS	*Thalictrum dasycarpum*	Purple Meadow Rue	5	-3	FACW	3-7'	6	Cream		11,000	2.00	0.13	0.79%	0.24%	CM-60, G	0
TRAOHI	*Tradescantia ohiensis*	Ohio Spiderwort	2	3	FACU	2-4'	3	Blue		8,000	12.00	0.75	4.74%	1.05%	CM-120 or M, G	
VERHAS	*Verbena hastata*	Blue Vervain	4	-3	FACW	2-6'	5	Blue		93,000	2.00	0.13	0.79%	2.03%	CM-30	
VERFAS	*Vernonia fasciculata*	Common Ironweed	5	-3	FACW	3-6'	6	Purple		24,000	1.00	0.06	0.40%	0.26%	CM-60	0
ZIZAUR	*Zizia aurea*	Golden Alexanders	7	0	FAC	1-2.5'	2	Yellow		11,000	8.00	0.50	3.16%	0.96%	CM-60 or M, G	No
										Wildflower Subtotals		8.547	54.02%	43.10%		
										Mix TOTALS		15.820	100.00%	100.00%		

No.	REVISIONS	DATE	BY

Kimley»Horn

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LICENSED PROFESSIONAL XXXX
ILLINOIS LICENSE NUMBER XXXX
DATE: 11/14/2025

KHA PROJECT 149621089
DATE 11/14/2025
SCALE AS SHOWN
DESIGNED BY ###
DRAWN BY ###
CHECKED BY ###

LANDSCAPE SCHEDULE

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L3.0

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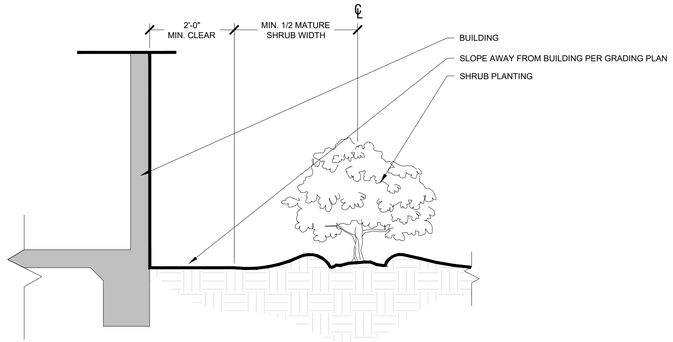
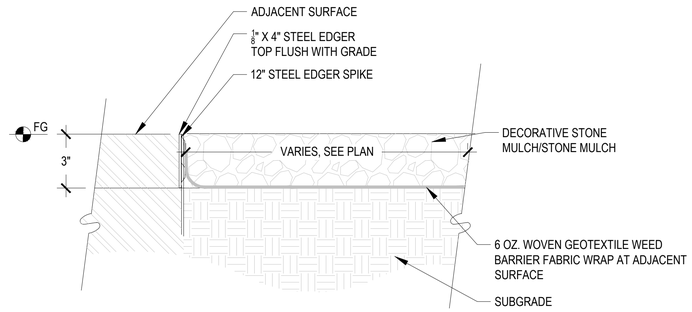


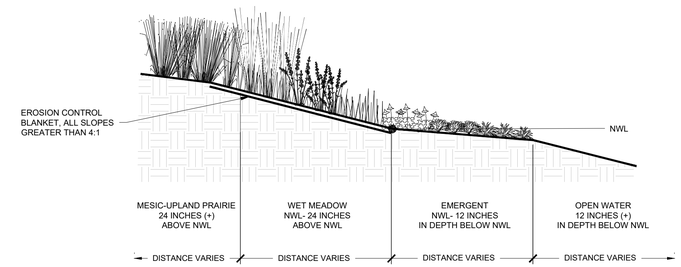
1 SHRUB PLANTING AT BUILDING FACE

N.T.S.



2 STONE MULCH

3" = 1'-0"



SECTION

3 DETENTION BASIN PLANTING

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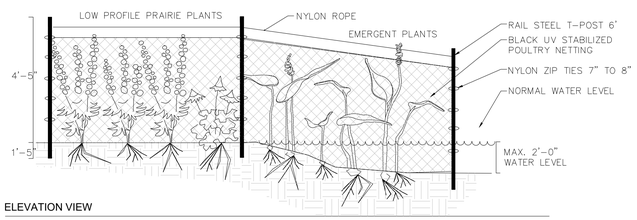
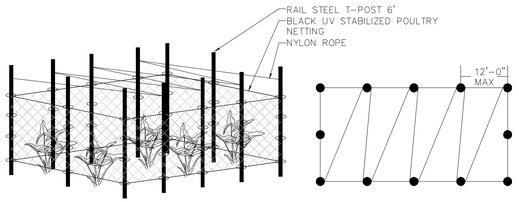


ELEVATION VIEW



PLAN VIEW (UPLAND & IN-WATER)

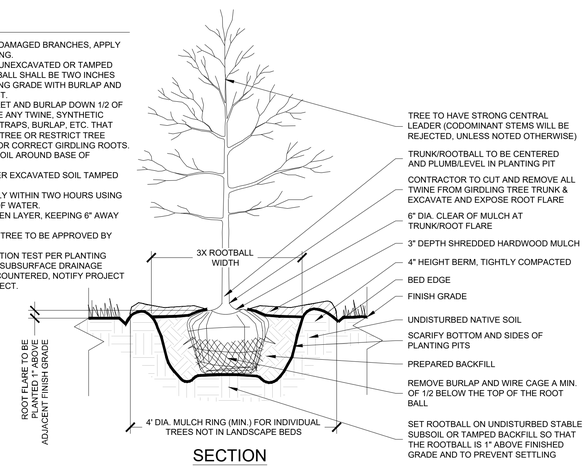
NOTE: GOOSE EXCLOSURE TO SURROUND THE ENTIRE PERIMETER OF EACH PLUGGED AREA WITH POSTS AND NYLON ROPE PROTECTING ALL PLUGS. NOT PROVIDING GOOSE EXCLOSURE WILL RESULT IN LOSS OF PLUGS BY WATER FOWL AND MUSKRAT WILDLIFE.

4 GOOSE EXCLOSURE FENCING

1" = 1'-0"

NOTES:

1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
3. REMOVE WIRE BASKET AND BURLAP DOWN 1/2 OF ROOT BALL. REMOVE ANY TWINE, SYNTHETIC MATERIAL, WIRES, STRAPS, BURLAP, ETC. THAT COULD GIRDLE THE TREE OR RESTRICT TREE GROWTH. REMOVE OR CORRECT GIRDLING ROOTS.
4. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
5. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY.
6. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
7. APPLY MULCH IN EVEN LAYER, KEEPING 6" AWAY FROM ROOT FLARE.
8. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.
9. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT.



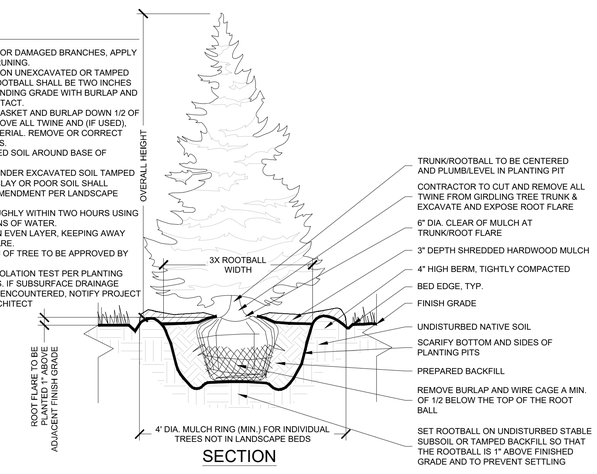
SECTION

5 TYPICAL TREE PLANTING

N.T.S.

NOTES:

1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
3. REMOVE WIRE BASKET AND BURLAP DOWN 1/2 OF ROOT BALL. REMOVE ALL TWINE AND (IF USED), SYNTHETIC MATERIAL. REMOVE OR CORRECT GIRDLING ROOTS.
4. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
5. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY. HIGH CLAY OR POOR SOIL SHALL RECEIVE SOIL AMENDMENT PER LANDSCAPE NOTES.
6. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
7. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE.
8. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.
9. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT



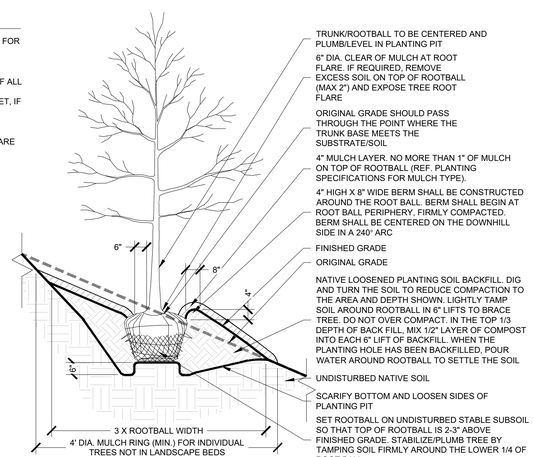
SECTION

6 EVERGREEN TREE PLANTING

N.T.S.

NOTES:

1. REF. PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SEE TREE PRUNING DETAILS FOR ADDITIONAL INFORMATION.
3. COMPLETELY REMOVE THE TOP 1/2 OF ALL B&B WIRE BASKETS.
4. REF. TREE STAKING DETAIL THIS SHEET, IF REQUIRED.
5. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT.



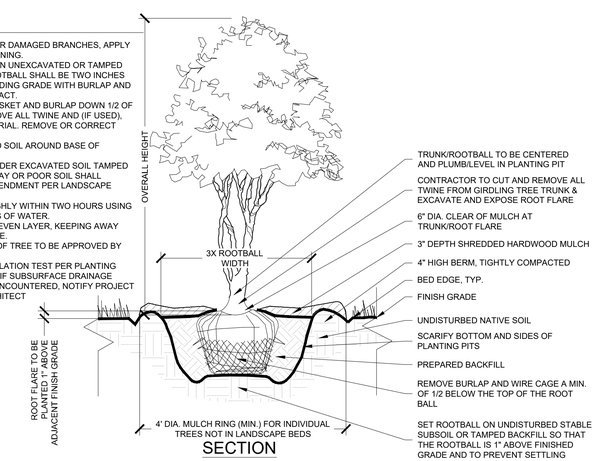
SECTION

7 TREE PLANTING ON SLOPE

N.T.S.

NOTES:

1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
3. REMOVE WIRE BASKET AND BURLAP DOWN 1/2 OF ROOT BALL. REMOVE ALL TWINE AND (IF USED), SYNTHETIC MATERIAL. REMOVE OR CORRECT GIRDLING ROOTS.
4. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
5. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY. HIGH CLAY OR POOR SOIL SHALL RECEIVE SOIL AMENDMENT PER LANDSCAPE NOTES.
6. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
7. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE.
8. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.
9. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT



SECTION

8 MULTI-STEM TREE PLANTING

N.T.S.

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LICENSED PROFESSIONAL
XXXX
ILLINOIS LICENSE NUMBER
XXXX
DATE: 11/14/2025

KHA PROJECT
149621089
DATE
11/14/2025
SCALE AS SHOWN
DESIGNED BY ####
DRAWN BY ####
CHECKED BY ####

LANDSCAPE NOTES AND DETAILS

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L3.1

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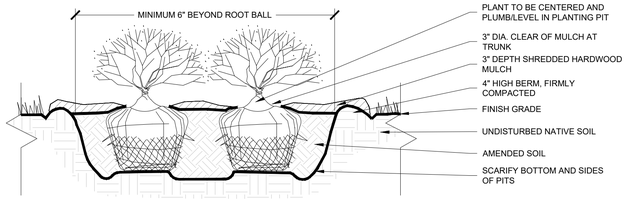
NOTES:

1. APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL OR CONTAINER ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL (CONTAINER) SHALL BE ONE INCH ABOVE SURROUNDING GRADE. FOR LARGER SHRUBS WITHIN PLANTING BED DIG A DEEPER PIT ONLY FOR THOSE SHRUBS.
3. REMOVE BURLAP FROM TOP HALF THE LENGTH OF ROOTBALL. TWINE AND (IF USED) SYNTHETIC MATERIAL SHALL BE REMOVED FROM PLANTING BED. FOR CONTAINER GROWN SHRUBS, REMOVE CONTAINER AND LOOSEN ROOTS PRIOR TO INSTALLATION.
4. REMOVE OR CORRECT GIRDLING ROOTS.
5. PLUMB AND BACKFILL WITH AMENDED SOIL PER LANDSCAPE NOTES. WATER THOROUGHLY WITHIN TWO HOURS.
6. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR SHRUBS EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.



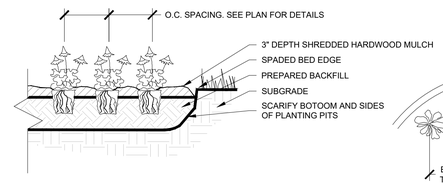
SECTION

9 SHRUB PLANTING

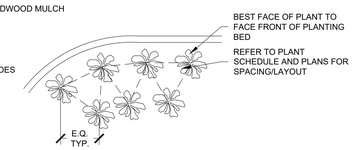
N.T.S.

NOTES:

1. EXCAVATE PLANTING BED.
2. BED HEIGHT IS TO BE 2" ABOVE FINISH GRADE AND WELL DRAINED.
3. REMOVE CONTAINER, SCORE SOIL MASS TO REDIRECT AND PREVENT CIRCLING ROOTS. CORRECT GIRDLING ROOTS.
2. PLANT MATERIAL SHALL BE LAID OUT BY FOLLOWING THE BED EDGE, WORKING TOWARDS THE CENTER OF THE BED USING TRIANGULAR (STAGGERED) SPACING AS PLAUSIBLE.
3. PLUMB AND BACKFILL WITH PLANTING MIX AS SPECIFIED IN LANDSCAPE NOTES.
4. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR PERENNIALS/GROUNDCOVER EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.
5. SPACING TO BE AS SPECIFIED IN THE PLANT LIST OR AS SHOWN ON DRAWINGS. PERENNIALS SHALL BE PLACED WITH THEIR CENTER 24" FROM EDGE OF BED.



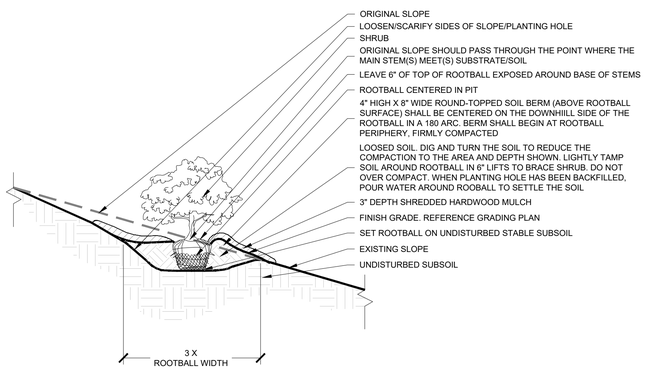
SECTION



PLAN

10 PERENNIAL PLANTING

N.T.S.



SECTION

11 SHRUB PLANTING ON SLOPE

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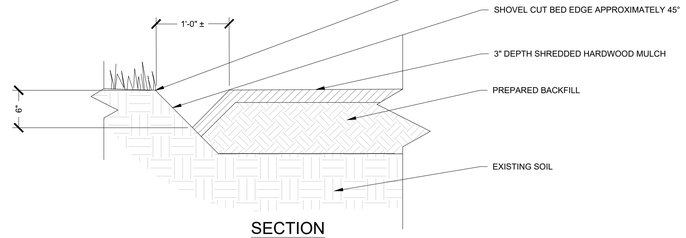
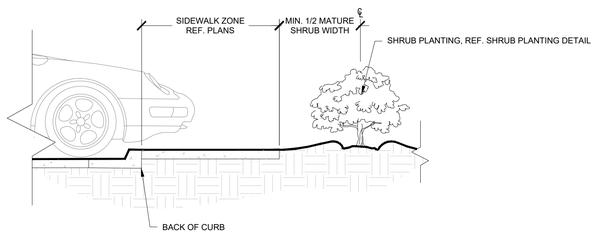


SECTION

12 BED EDGE

N.T.S.



SECTION

13 SHRUB PLANTING AT SIDEWALK

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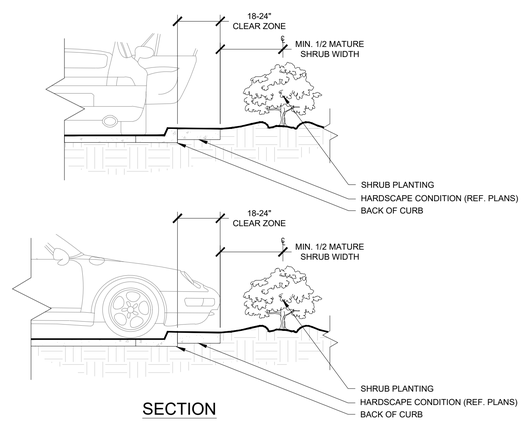
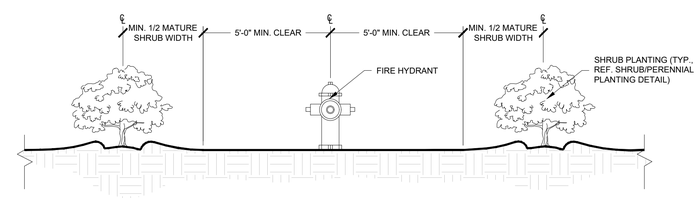


SECTION

14 SHRUB PLANTING AT CURB

N.T.S.



SECTION

15 SHRUB PLANTING AT FIRE HYDRANT

N.T.S.

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LANDSCAPE DETAILS

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CITY OF ORLAND PARK ILLINOIS

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GROUND COVER MAINTENANCE REQUIREMENTS

MAINTENANCE PROGRAMS SHALL BE SITE SPECIFIC AND COORDINATED WITH THE LANDSCAPE CONTRACTOR AND COUNTY FOR ADEQUATE MAINTENANCE PROCEDURES. A THREE YEAR STEWARDSHIP PROGRAM IS NECESSARY TO ENSURE PROPER ESTABLISHMENT AND HEALTH OF GROUND COVER, TO CONTROL INVASIVE SPECIES, AND TO PREVENT OVERGROWTH AND SHADING OF EQUIPMENT. AFTER THE THIRD GROWING SEASON, PROGRAM MAY BE REDUCED TO TWO VISITS PER YEAR AS NEEDED, DEPENDENT UPON SITE CONDITIONS AND REQUIRED STRATEGIES TO MAINTAIN GOOD HEALTH OF THE SITE SUCH AS DETHACHING, ADDITIONAL MOWING, OR HERBICIDE TREATMENTS.

FIRST YEAR

SPRING:
-EARLIEST POSSIBLE INSTALLATION MAY OCCUR IN THE SPRING OF THE FIRST YEAR. NO ACTIONS ARE REQUIRED TO BE PERFORMED DURING THE FIRST SEASON OF INSTALL. IF SEED APPLICATION TAKES PLACE IN SUMMER OR FALL OF THE FIRST YEAR, MAINTENANCE AND MONITORING SHOULD START THE FOLLOWING SEASON.

SUMMER:
-SITE VISITS ARE TO BE PERFORMED THREE TIMES THROUGHOUT THE SUMMER, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS.
-CONDUCT MOWING UP TO THREE TIMES MAXIMUM DURING THE SUMMER IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES AND DOMINATED BY DESIRABLE SPECIES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. NEWLY SEEDED AREAS SHOULD BE CUT BACK TO 10 INCHES IN HEIGHT.

FALL:
-SITE VISITS ARE TO BE PERFORMED THREE TIMES THROUGHOUT THE FALL, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS.
-CONDUCT MOWING UP TO THREE TIMES MAXIMUM DURING THE FALL IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES AND DOMINATED BY DESIRABLE SPECIES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. NEWLY SEEDED AREAS SHOULD BE CUT BACK TO 10 INCHES IN HEIGHT.

SECOND YEAR

SPRING:
-SITE VISITS ARE TO BE PERFORMED THREE TIMES THROUGHOUT THE SPRING, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-DURING FIRST VISIT, MOWING SHOULD OCCUR TO CUT BACK ANY VEGETATION TO A HEIGHT OF 10 INCHES AND REMOVE DEAD STALKS AND SEED HEADS FROM THE PREVIOUS GROWING SEASON.
-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS.
-CONDUCT MOWING UP TO THREE TIMES MAXIMUM DURING THE SPRING IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES AND DOMINATED BY DESIRABLE SPECIES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.
-PLANT SUPPLEMENTAL SEED AS NEEDED TO ADDRESS AREAS OF POOR COVERAGE AND TO INCREASE COMPETITION AND BIO-DIVERSITY.

SUMMER:
-SITE VISITS ARE TO BE PERFORMED THREE TIMES THROUGHOUT THE SUMMER, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS.
-CONDUCT MOWING UP TO THREE TIMES MAXIMUM DURING THE SUMMER IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES AND DOMINATED BY DESIRABLE SPECIES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.

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-SITE VISITS ARE TO BE PERFORMED THREE TIMES THROUGHOUT THE FALL, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS.
-CONDUCT MOWING UP TO THREE TIMES MAXIMUM DURING THE FALL IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES AND DOMINATED BY DESIRABLE SPECIES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.

THIRD YEAR

SPRING:
-SITE VISIT IS TO BE PERFORMED ONE TIME DURING THE EARLY SPRING, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING.
-MOWING SHOULD OCCUR TO CUT BACK ANY VEGETATION TO A HEIGHT OF 10 INCHES AND REMOVE DEAD STALKS AND SEED HEADS FROM THE PREVIOUS GROWING SEASON.
-IF INVASIVE WOODY AND HERBACEOUS FLORA HAVE BEEN IDENTIFIED, PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS ARE REQUIRED.

SUMMER:
-SITE VISIT IS TO BE PERFORMED ONE TIME DURING THE SUMMER, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING.
-MOWING SHOULD OCCUR IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 16 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 16 INCHES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.
-IF INVASIVE WOODY AND HERBACEOUS FLORA HAVE BEEN IDENTIFIED, PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS ARE REQUIRED.

FALL:
-SITE VISIT IS TO BE PERFORMED ONE TIME DURING THE FALL, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING.
-MOWING SHOULD OCCUR IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 24 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 24 INCHES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.
-IF INVASIVE WOODY AND HERBACEOUS FLORA HAVE BEEN IDENTIFIED, PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS ARE REQUIRED.

FOLLOWING THE THIRD YEAR

-SITE VISITS ARE TO BE PERFORMED TWICE A YEAR, DURING THE EARLY SPRING AND LATE SUMMER, WITH MONITORING AND EVALUATION OF VEGETATION HEIGHT AND PRESENCE OF INVASIVE SPECIES OCCURRING AT EACH VISIT.
-DURING THE SPRING, MOWING SHOULD OCCUR TO CUT BACK ANY VEGETATION TO A HEIGHT OF 10 INCHES AND REMOVE DEAD STALKS AND SEED HEADS FROM THE PREVIOUS GROWING SEASON.
-DURING THE FALL, MOWING SHOULD OCCUR IN AREAS OF THE SITE IDENTIFIED TO HAVE VEGETATION OVER 24 INCHES IN HEIGHT. AREAS WITH HEIGHT UNDER 24 INCHES MAY REMAIN UNTIL THE NEXT SCHEDULED MONITORING VISIT. SEEDED AREAS SHOULD BE CUT BACK TO 12 INCHES IN HEIGHT.
-IF INVASIVE WOODY AND HERBACEOUS FLORA HAVE BEEN IDENTIFIED, PHYSICAL REMOVAL OR SPOT *HERBICIDE TREATMENTS ARE REQUIRED.
*ALL HERBICIDES ARE TO BE ANIMAL FRIENDLY AND APPLIED BY A TRAINED PERSONNEL.

PERFORMANCE STANDARDS

SATISFACTORY LANDSCAPE DEVELOPMENT ASSOCIATED WITH NATURALIZED VEGETATION WILL BE BASED ON THE FOLLOWING ITEMS.

FIRST YEAR:

WITHIN THREE MONTHS OF SEED INSTALLATION (OR THREE MONTHS AFTER THE START OF THE GROWING SEASON FOLLOWING DORMANT SEEDING), APPROXIMATELY 90 PERCENT OF THE SEEDED AREA, AS MEASURED BY AERIAL COVER, WILL BE VEGETATED OR OTHERWISE STABILIZED AGAINST EROSION. THE COVER CROP MAY BE INCLUDED IN THIS MEASUREMENT. IF MINIMUM IS NOT MET, ADDITIONAL SEEDING IS REQUIRED IN AREAS WITH POOR COVER.

SECOND YEAR:

BY THE END OF THE SECOND GROWING SEASON, THE PLANTED AREAS ARE DESIGNED TO HAVE A MINIMUM OF 50 PERCENT GROUND COVER BY SPECIES IN FINAL SEED MIX (NOT TO INCLUDE TEMPORARY COVER CROP OR UNDESIRABLE / INVASIVE SPECIES).

THIRD YEAR:

BY THE END OF THE THIRD GROWING SEASON, THE PLANTED AREAS ARE DESIGNED TO HAVE A MINIMUM OF 75 PERCENT GROUND COVER BY SPECIES IN FINAL SEED MIX (NOT TO INCLUDE TEMPORARY COVER CROP OR UNDESIRABLE / INVASIVE SPECIES).

GENERAL LANDSCAPE NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
5. ALL PLANTS TO BE SPECIMEN GRADE, WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, AND SCARS. PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS PART OF THIS CONTRACT.
6. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR OTHERWISE NOT EXHIBITING SUPERIOR QUALITY.
7. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNERS WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
8. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
9. PRUNE PLANTS AS NECESSARY- PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
10. SEED LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED WITH THE SPECIFIED SEED MIXES.
11. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES AND SHRUB.
12. INSTALLATION OF TREES WITHIN PARKWAYS SHALL BE COORDINATED IN THE FIELD WITH LOCATIONS OF UNDERGROUND UTILITIES. TREES SHALL NOT BE LOCATED CLOSER THAN 5' FROM UNDERGROUND UTILITY LINES AND NO CLOSER THAN 10' FROM UTILITY STRUCTURES.
13. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLAN.
14. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
15. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE.
16. SPOT HERBICIDE TREATMENT SHOULD ONLY BE USED IN AREAS OF LIVESTOCK GRAZING AS A LAST RESORT TO CONTROL WEEDS AND SHOULD BE APPLIED IN A VERY CONCENTRATED LOCATION AT THE BASE OF WEEDS. NO GENERAL SPAY OF HERBICIDES IS TO BE USED FOR ANY SEEDED AREAS.
17. ONLY HERBICIDES FORMULATED FOR PET AND ANIMAL SAFETY SHALL BE USED.
18. ALL PLANTS IMPORTED ACROSS ILLINOIS STATE LINES MAY BE SUBJECT TO CERTIFICATION AND INSPECTION PRIOR TO PLANTING.
19. ALL WORK DEEMED NATURAL AREA TO BE SEEDED OR PLANTED SHALL BE PERFORMED BY A QUALIFIED LANDSCAPE CONTRACTOR.
20. SEED LIMIT LINES ARE APPROXIMATE. THE CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED WITH THE SPECIFIED SEED MIXES.
21. SEED SHALL BE OBTAINED FROM SOURCES SPECIALIZING IN NATIVE SPECIES, WHEN AVAILABLE OR AS APPROVED BY CLIENT OR CLIENT'S REPRESENTATIVE.
22. ALL SEED MIXES SHALL BE INSTALLED WITH A COVER CROP DEPENDENT ON SEASON AND REQUIREMENTS SPECIFIED PER SEED MIX / SEED SUPPLIER.

ESTABLISHMENT NOTES AND STANDARDS

TREE / SHRUB ESTABLISHMENT

PREPARATION

HOLES DUG FOR TREES AND SHRUBS SHALL BE NO DEEPER THAN THE ROOTBALL OR CONTAINER, MEASURED TO THE TRUNK FLARE. DIAMETER OF HOLES SHALL BE TWICE THE DIAMETER OF THE ROOT BALL FOR TREES, AND AT MINIMUM 6 INCHES BEYOND THE DIAMETER OF CONTAINERS FOR SHRUBS.

INSTALLATION

INSTALL TREES AND SHRUBS SO THAT THE TRUNK FLARE IS AT A MAXIMUM 2 INCHES ABOVE GRADE, AND AT MINIMUM, AT GRADE. REMOVE CONTAINER AND REMOVE ANY BURLAP 6 INCHES FROM THE HEIGHT OF THE ROOT BALL, THEN BACKFILL TO FINISHED GRADE USING EXCAVATED SOIL FROM THE DUG HOLE.

SEED AREA ESTABLISHMENT

PREPARATION

SOIL PH IS TO BE TESTED PRIOR TO AMENDMENT AND FINAL GRADING. LIME OR SULFUR IS TO BE ADDED IN APPROPRIATE QUANTITY TO BRING PH TO ACCEPTABLE LEVELS FOR SEED APPLICATION AS NEEDED. IN AREAS OF SOIL AMENDMENT OR EXISTING AGRICULTURAL LAND, SOIL IS RECOMMENDED TO BE DISKED, CULTIVATED, AND PLANED / ROLLED AS NEEDED. SOILS SHALL BE UNIFORM, WITHOUT EXCESSIVE FURROWS, RUTS, OR RIDGES, AND LOW AREAS WHERE WATER MAY COLLECT. SOIL PREPARATION SHALL OCCUR WHEN WEATHER PERMITS AND TIMING ALLOWS FOR AT LEAST A FOLLOWING 48 HOURS WHERE SEEDING AND STABILIZATION METHODS MAY TAKE PLACE.

TIMING

IN ORDER TO MINIMIZE INITIAL USES OF BROAD APPLICATION HERBICIDE TREATMENT, AND PROMOTE EARLY AND STRONG ESTABLISHMENT OF SPECIFIED SEED MIXES WITH MINIMAL UNDESIRABLE WEED COMPETITION, DORMANT SEEDING SHOULD BE UTILIZED AS SITE CONDITIONS AND CONSTRUCTION TIMELINE PERMITS. IF ACTIVE SEASON SEEDING SHOULD BE REQUIRED, IT IS RECOMMENDED TO DO SO BETWEEN APRIL 1ST AND MAY 30TH, AFTER RISK OF MAJOR FREEZING CONDITIONS IS MINIMIZED. COVER CROPS MAY BE SEEDED AT ANY TIME IN THE EVENT THAT STABILIZATION IS REQUIRED OUTSIDE OF RECOMMENDED PLANTING TIMES. COVER CROPS MAY BE REQUIRED TO BE IRRIGATED IF APPLIED DURING WARM SEASONS AND IF ADEQUATE SOIL MOISTURE IS NOT PRESENT.

APPLICATION

SEED MIXTURES SHALL BE MECHANICALLY DRILLED, BROADCAST, OR HYDROSEEDED WITH STRAW MULCH PER SUPPLIER'S RECOMMENDATION (IF APPLICABLE). NO STRAW MULCH IS REQUIRED IF DRILL APPLIED, UNLESS NEEDED FOR STEEP SLOPES, SOIL STABILIZATION, OR OTHER AREAS THAT ARE IDENTIFIED FOR EROSION PREVENTION. SEED SHALL BE APPLIED AT INDICATED RATES WITH COVER CROP OATS, JAPANESE MILLET, WINTER PEA, OR ANNUAL RYE DEPENDENT ON SEASON AND SOIL CONDITIONS. SEED SPECIES SHALL BE LOCALLY SOURCED WHEN FEASIBLE. FINAL SEED MIX MAY VARY DEPENDENT UPON SPECIFIC SPECIES AVAILABILITY AND TIME OF INSTALLATION. FINAL SEED MIX SHALL BE APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT. IF SEEDING IS PERFORMED PRIOR TO FINAL SITE INSTALLATION, ADDITIONAL SEED MAY BE APPLIED BY A LOW SPREADER IN AREAS THAT WERE DISTURBED. SITE SHOULD BE MONITORED FOLLOWING INSTALLATION FOR AREAS IDENTIFIED FOR ADDITIONAL RESEEDING UNTIL SEED MIX IS SUFFICIENTLY ESTABLISHED.

INVASIVE WEED CONTROL, MONITORING, AND MANAGEMENT

A WORK PLAN SHOULD BE DEVELOPED TO AVOID THE SPREAD OF INVASIVE PLANTS FROM THESE AREAS. IF SUBSTANTIAL AREAS OF INVASIVE HERBACEOUS SPECIES ARE FOUND PRIOR TO OR AFTER PROJECT DEVELOPMENT, FOLIAR OR BROADCAST HERBICIDE APPLICATIONS MAY BE REQUIRED. FOR INVASIVE TREES, SHRUBS, AND VINES, MANAGEMENT MAY REQUIRE CUT-STEM HERBICIDE TREATMENTS.
ALL INVASIVE SPECIES MANAGEMENT SHOULD BE CONDUCTED DURING THE SUMMER MONTHS WHILE THE TARGET PLANTS ARE ACTIVELY GROWING.
TREATMENTS SHOULD BE CONDUCTED BETWEEN JULY AND AUGUST OF EACH YEAR AND SHOULD BE SEPARATED BY AT LEAST TWO WEEKS. APPROXIMATELY TWO HERBICIDE TREATMENTS SHOULD BE SCHEDULED PER SEASON FOR AT LEAST TWO YEARS FOLLOWING INITIATION OF PROJECT WORK. HERBICIDE USE REPORTING WILL ADHERE TO ALL APPLICATOR LICENSING REQUIREMENTS.

No.	REVISIONS	DATE	BY

Kimley»Horn
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LICENSED PROFESSIONAL
XXXX
ILLINOIS LICENSE NUMBER
XXXX
DATE: 11/14/2025

KHA PROJECT 149621089
DATE 11/14/2025
SCALE AS SHOWN
DESIGNED BY ###
DRAWN BY ###
CHECKED BY ###

LANDSCAPE NOTES

159TH & LAGRANGE RETAIL
CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L3.3

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SECTION 02800
LANDSCAPE

Part 1.00 General

1.01 SCOPE OF WORK
- A. This section covers furnishing and installing all landscape plants and nonplant materials covered by the drawings and these specifications. The work shall include materials, labor, equipment and services as described herein and indicated on the drawings. Also, the work shall include the maintenance of all plants and planting areas until acceptance by the Owner, and the fulfillment of all guarantee provisions as herein specified.

1.02 PLANTING LAYOUT
- A. Before beginning work, the contractor shall investigate and verify, in the field, the existence and location of all underground utilities and irrigation piping, and take precautions to prevent their disturbance. It shall be the responsibility of the contractor to obtain all such information as it is made available. Plans and specifications of related work may be obtained from the owner.
- B. The contractor shall locate all general reference points, take precautions to prevent their disturbance, perform the layout work, be responsible for all lines, elevations and measurements of work executed under the contract, exercise proper precaution to verify figures on drawings before laying out work and be responsible for any error resulting from failure to exercise such precaution. The contractor shall make field measurements for his own work and be responsible for its accuracy.
- C. Discrepancies between conditions existing on the site and conditions indicated on the drawings shall be called to the attention of the owner before or at the time plant locations are staked out.
- D. In the event of a variation between the plant list and the actual number of plants shown on the plans, the plans shall control.

1.03 HORTICULTURAL STANDARDS
- A. Unless otherwise noted, plant material, including collected materials, shall be grade No. 1 or better as outlined under Grades and Standards for Nursery Plants, and shall also conform to American Standard for Nursery Stock, ANSI (American National Standards Institute, Inc.) Z60.1–1996 as approved by the American Association of Nurserymen.
- B. All plant names shall conform to the names given in Standardized Plant Names, 1942 Edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein shall conform generally with names accepted in the nursery trade. All plant materials shall be true to botanical, common and variety names. Botanical name shall have precedence over common name.
- C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

1.04 CERTIFICATES OF INSPECTION
- A. All plant material shall be inspected by the Department of Agriculture, as required by state law. Plants of a grade less than that specified in the article titled HORTICULTURE STANDARDS will not be accepted.

Part 2.00 Non–Plant Materials

2.01 SOIL BACKFILL
- A. Soil for backfilling planting areas and plant pits shall be the existing surface soil, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement or any other material which may be harmful to plant growth or hinder planting operations. Poorly drained soil shall not be used.
- B. The contractor shall obtain current agronomic soils report and include soil amendment recommendations on these plans. Soil shall be amended to provide 3%–5% percent organic matter.
- C. Soil amendments shall be added to the soil in the amount and manner prescribed by soil analysis to obtain a pH of 6.0 to 7.0. Results from soil analysis and a list of the prescribed amendments shall be presented to the owner and verified by the landscape architect prior to being incorporated into the soil.
- D. If additional soil is required; it shall be furnished by the contractor and shall be a natural, friable soil representative of productive, well–drained soils in the vicinity. It shall be obtained from well drained areas which have never been stripped before ±_and shall be free of admixture of subsoil and foreign matter, stones, toxic substances and any material or substance that may be harmful to plant growth
- E. The contractor shall provide the following information on imported topsoil:
  1. Specific location from which topsoil will be (or was) stripped.
  2. Present owner of that property.
  3. Approximate amount of topsoil available.
  4. Test results showing topsoil composition and analysis.
- F. Soil test shall be performed by a qualified soils laboratory, in accordance with "Methods of Soils Analysis – Agronomy 9" as published by the American Society of Agronomy and shall be performed at the Contractor's expenses.
- G. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.
- H. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 18" and backfilled with a mixture consisting of 40% peat, 40% D.O.T. (coarse) sand, 10% pine bark (decomposed) and 10% cypress chips.
- I. Planting soil backfill for tree wells, if applicable, shall be approved topsoil.
- J. Planting area topsoil, if applicable, shall be 25% sphagnum peatmoss, 5% humus, and 70% pulverized soil for all non turf seed mix areas, shrub, ornamental grass, perennial, and annual beds.

2.02 FERTILIZER
- A. Commercial fertilizer shall be 14–14–14 formulation of Osmocote brand, 3–4 month release of which 60% of the nitrogen is in urea–formaldehyde form and shall conform to the applicable state fertilizer laws. Fertilizer shall be uniform in composition, dry and free flowing.

2.03 PRE–EMERGENCE WEED CONTROL
- A. Weed control shall be Ronstar 2G as manufactured by Rhodia, Inc., Monmouth Junction, New Jersey 08852 or Princap (Simazine) as manufactured by Gelgy Agricultural Chemicals, Ardsley, New York 10502, or an approved equal.

2.04 WATER
- A. Water will be available for use on site during the landscape installation at no cost to the contractor. Care shall be exercised to assure that water is kept free of harmful chemicals, acids, alkalis, or any substance, which might be harmful to plant growth.

2.05 ANTIDESICCANT
- A. Antidesiccant shall be an emulsion type; film–forming agent designed to permit transpiration, but retard excessive loss of moisture from plants, such as Dowax by Dow Chemical Co., or Wilt–Pruf by Nursery Specialty Products, Inc., or an acceptable equal. The antidesiccant shall be delivered in the manufacturer's fully identified containers and shall be mixed in accordance with manufacturer's instructions.

2.06 BORICIDE
- A. Boricide shall be Lindane as manufactured by Platt, or an approved equal.

2.07 MULCH
- A. Wood Mulch shall be shredded hardwood mulch at 3" in. depth. Furnish and install mulch to all trees, shrubs, perennial, and groundcover areas. Trees placed in area covered by turf shall receive a 4' wide tree ring with 3" depth shredded hardwood mulch. Submit a mulch sample to owner and landscape architect for review and approval.

2.08 GUYING AND STAKING MATERIAL
- A. Stakes for supporting trees shall be as detailed on the drawings or as necessary. Wire for fastening trees to duckbill and turnbuckle shall be galvanized aircraft grade guying cable as specified in the detail. Wires in contact with trees shall be encased in two–ply reinforced garden hose. Material for wrapping tree trunks shall be burlap, heavy crepe paper, or other acceptable material in strips 6 to 10 inches wide.

2.09 DRAINAGE GRAVEL
- A. Where indicated on the drawings, or where soil conditions deem it necessary, the contractor shall install gravel subdrains beneath trees and/or planting areas to aid in soil drainage and percolation. The subdrain shall be constructed as detailed on the drawings, or as directed by the landscape architect. Drainage gravel shall consist of washed, clean gravel 3/4 inch to 2 inches in size.

2.10 SOIL SEPARATION MATS
- A. Soil separation mats, if indicated on the drawings, shall be Bidim (gray felt) as manufactured by Monsanto Co., 800 North Lindbergh Road, St. Louis, MO 63166 or approved equal. Mats shall be installed as indicated on the drawings, and edges overlapped a minimum of 4 inches. Care shall be taken to prevent tearing or excessive crushing during the installation process.

Part 3.00 Plant Material

3.01 QUALITY OF PLANT MATERIAL
- A. During inspection, as set forth hereinafter, all plant material will be judged, and rejections shall be based upon these standards. All plants shall comply with federal and state law requiring inspection for plant diseases and infestations. Inspection certificates required by law shall be made available to the owner or owner's representative at his/her request.
- B. In determining the quality of plant material, the following elements will be valued:
  1. Root condition.
  2. Plant size (above ground).
  3. Insect and disease free condition.
  4. General appearance (color, shape, pruning).

  A deficiency in one or more of these areas will be sufficient reason to reject selectively or by lot.
- C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

3.02 SIZE AND MEASUREMENTS
- A. Plants shall be measured when branches are in their normal position. Heights and spread dimensions specified refer to the main body of the plant and not to extreme branch tip to tip. The measurements specified are the minimum size acceptable and where pruning is required, these are measurements after pruning. When sizes are indicated as a range, the plant shall have the proper proportion as outlined in Department of Agriculture, Grades and Standards for Nursery Plants Part 1 and 11. Caliper of trees shall be taken 6 inches above the ground level and shall be the determining measurement for nursery trees. Diameter at breast height (DBH) shall be taken 4.5' above the ground level and shall be the determining measurement for established trees.
- B. Plants, which have been headed back to conform to the size specified, will not be acceptable. Plants larger than specified may be used if approved by the owner; however, the use of such plants shall not increase the contract price.

3.03 LABEL
- A. Plant materials shall have durable, legible labels stating, in weather resistant ink, the correct botanical and common names and size as indicated in the Plant List. Each plant, or sufficient representative samples of each delivered shipment, shall have labels securely attached in a fashion that will not interfere with normal plant growth. Plant materials which (or will have) a seasonal bloom shall be tagged with labels indicating the specific variety of that species' botanical and common name.

3.04 COLLECTED PLANTS
- A. All plant material shall be nursery grown. Collected plants shall have been grown under climatic conditions similar to those in the locality of the project. All collected plants shall meet the requirements as specified and shall meet all specified grades and standards, unless otherwise qualified in the Plant List or these specifications. Root balls shall be increased in size one third greater than nursery grown plants.

3.05 CONTAINERIZED PLANTS
- A. All container grown plants shall be well rooted and established in the container in which they are delivered to the site. The plants shall have been in that container sufficiently long for the fibrous roots to hold the soil together when the plant is removed from the container. Container grown plants found to be root–bound during planting will not be acceptable. Containerized trees have a tendency to dry out quickly. The contractor shall be responsible for hand watering the trees at time of delivery through the time of final acceptance at a rate consistent with the nursery watering schedule to assure that the tree does not go into shock.

3.06 SPECIMEN PLANTS
- A. After receiving the Notice to Proceed, the contractor shall locate all plants specified as specimen. The contractor shall notify the owner so they may agree on a time to mutually inspect the selected plants. The owner will inspect and tag those plants, which are acceptable for use. Expenses incurred by the owner for any subsequent inspection of specimen plants, at any time, in addition to the mutually agreed time shall be the responsibility of the contractor.

3.07 SUBSTITUTIONS
- A. The use of materials differing in kind, quality or size from those specified will be allowed only after the owner is convinced that all means of obtaining the specified materials have been exhausted.
- B. Where it is indicated that the contractor may furnish or use a substitute that is equal to the material or equipment specified and if the contractor is to furnish or use a proposed substitute, he shall, after the award of the contract, make written application to the owner for acceptance of such a substitute. The substituted product or method shall be equal or superior in all respects to the specified product or method, shall perform adequately the duties imposed by the general design, shall be compatible with all other elements of the job, and shall be sufficient to complete the job. The substitution shall not add cost to the contract. Should it be necessary to accept a substitute of a quality less than specified, the unit price shall be used to adjust the contract price downward accordingly. No substitution shall be ordered or installed without the written permission of the owner and governing municipality.

Part 4.00 Delivery, Storage and Handling

4.01 PLANT MATERIAL
- A. The contractor shall exercise care in handling, loading and unloading, storage and transporting all plant material and allied materials to prevent damage. The contractor shall assume full responsibility for protection and safekeeping of products stored on the job.
- B. The contractor shall dig and prepare plant material for shipment in a manner that will not damage roots, branches, shape and future development after planting.
- C. Trees indicated on the plans where size, soil conditions and distance of transport to the site would warrant, shall be wireballed. Bottom wired baskets manufactured specifically for use in tree handling may be used.
- D. The contractor shall handle all plants so that roots and branches are protected at all times from drying out, heating and from other injury. All plants shall be handled by the ball or container.
- E. Before moving plants from the nursery or storage area to the site; they shall be thoroughly sprayed with a solution of antidesiccant. Antidesiccant shall be applied to all collected pines and oaks. Two weeks after planting or as specified by the product manufacturer; the material shall be sprayed again with the antidesiccant. The antidesiccant shall be applied using power spray to provide an adequate film over trunks, branches, stems, twigs and foliage.
- F. When transporting plants to and at the site, the contractor shall make provisions to protect plants from wind damage by avoiding high–speed highways, transporting in enclosed or partially enclosed vehicles, or covering the plants with burlap or other suitable material. Plants severely damaged by wind will be rejected.
- G. Any plant with signs of insects, their eggs or larvae or disease will be rejected and shall be removed from the project site.
- H. Only the nursery stock intended for planting on a particular day shall be delivered and stored on the site during the day unless otherwise acceptable to the owner. All plants shall be stored in one location as designated by the owner, protected from wind and kept moist. The roots of all plants that cannot be planted immediately in soil shall be covered with mulch and other suitable material. No plants shall be taken from the temporary storage area for planting on the project until after the tree pits or holes for the plants in the section to be planted have been properly excavated and prepared ready to receive the trees and shrubs.
- I. Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or other bark slippage by means of burlap, wood battens or other acceptable method.

4.02 NONPLANT MATERIAL
- A. Fertilizer shall be delivered to the site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law. In lieu of containers and provided that it is to be applied at the time of delivery, fertilizer may be furnished in bulk and a certificate indicating the above information shall accompany each delivery.
- B. Pesticide and herbicide materials shall be delivered to the site in the original, unopened containers. Containers that do not have a legible label that identifies the Environmental Protection Agency registration number and the manufacturer's registered uses will be rejected.
- C. Storage of materials shall be in the area designated for use by the owner. All materials shall be kept in dry storage and away from contaminants.

Part 5.00 Installation

5.01 PREPARATION BEFORE PLANTING
- A. The contractor shall verify that all final grades have been established prior to beginning planting operations. All unsatisfactory grading shall be reported to the owner, and the contractor shall not proceed with this work until the unsatisfactory conditions have been corrected. When conditions detrimental to plant growth are encountered, such as rubble, fill or adverse drainage conditions, the contractor shall notify the owner for directions.
- B. Should undesirable existing vegetation be present on the site at the time of installation, the contractor shall prepare the site for planting by use of chemicals, when used as recommended by the manufacturer, and/or mechanical means acceptable to the owner. Care shall be exercised to avoid any misuse of chemicals, which would create detrimental residual conditions. Care must also be used not to alter final grades, which have been established or cause damage to previously established turf areas.

5.02 SITE PREPARATION
- A. If so called for by the owner, all plant locations and the areas of all planting beds shall be staked out on the ground, for acceptance by the owner, before planting operations begin. The contractor shall stake the location of the center of each tree and paint the outline of each shrub and groundcover bed. The stakes shall be oriented in a vertical manner so that they can be viewed and read from one direction. The contractor shall give the owner notice 24 hours prior to the completion staking described herein.
- B. The contractor shall verify the location of underground utilities, and irrigation heads and valves, and provide markers or other suitable protection, where necessary, to prevent damage.

5.03 EXCAVATION OF PLANTING AREAS
- A. No tree or shrub pit shall be dug or prepared until their location is acceptable to the owner. Reasonable care shall be exercised to have pits dug and soil prepared prior to moving plants to respective locations for planting to ensure that they will not be unnecessarily exposed to drying elements or to physical damage.
- B. Circular pits with vertical sides shall be excavated for all plants. The depth of all plant pits shall be enough to accommodate the ball or roots and the prepared soil in the bottom of the pit. Diameter of pits for trees shall be at least 1 foot greater than the diameter of the ball.
- C. Plant beds and pits shall be tested for proper drainage by filling with water twice succession. Conditions permitting the retention of more than 6 inches of water in 1 hour shall be brought to the attention of the owner. A written proposal and cost estimate for correction of such conditions shall be submitted to the owner for acceptance, before proceeding with the work.
- D. All tree pits curbed planting islands, tree wells, or in areas, in which the soil has been compacted to an undesirable density, shall be excavated to a depth at least two feet greater than the measured depth and diameter of the ball. The minimum depth and diameter of excavation shall be four feet.
- E. In shrub and groundcover beds where soils have been compacted to a density, which is detrimental to plant growth, the contractor shall loosen soils to a depth of 18" minimum to allow root penetration beyond the planting pit.
- F. If acceptable for use, existing topsoil in shrub and groundcover beds shall be treated with the specified soil amendments, at rates determined by soil tests. Amendments shall be incorporated into the soil to a depth of 12 inches. Where soil is not acceptable as determined by soil tests, the soil in the entire area shall be removed to a depth of a min. 12 inches and replaced with the specified planting soil.

5.04 PLANTING
- A. All plants, except as otherwise specified, shall be centered in their pits, faced for best effect and set plumb for backfilling.
- B. All synthetic strings, straps, and wire cages shall be removed from the top of third of the root ball. Synthetic burlap shall be removed completely.
- C. Plants shall be removed from cans by cutting two sides of a container with an acceptable can cutter. Sides shall not be cut with a spade. Sides of knockout cans shall not be cut. Plastic containers with slanted sides shall not require cutting. Plants shall be removed from the container carefully, without injury or damage to the plant and root system.
- D. The contractor shall hand water–containerized trees from the time of delivery until the time of the final acceptance at a rate consistent with the nursery conditions from which the trees were obtained. Trees, which go into shock due to insufficient water, may be rejected.
- E. Plants shall be set in the center of the pits and shall be plumb and straight and at such a level that after settlement the root crown will be level with the surrounding grade.
- F. Plant holes shall be backfilled with the specified planting mixture placed in layers around the roots or ball. Each layer shall be carefully tamped in place in manner to avoid injury to the roots or ball or disturbing the position of the plant. When approximately two thirds of the plant hole has been backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. Balled and burlapped plants shall have the burlap cut away or folded back from the top of the ball before applying water. After the water has been absorbed, the plant hole shall be filled and tamped lightly to grade. Any subsequent settlement shall be brought to grade.
- G. Immediately after each tree pit is backfilled, a shallow basin slightly larger than the pit shall be formed with a ridge of topsoil to facilitate watering. This soil saucer shall be formed in a circle and tamped around each tree so that the saucer will retain water. Where curbing occurs around plant pits, the saucer shall be omitted.

5.05 FERTILIZING
- A. Each tree and shrub shall be fertilized by placing the manufacturer's recommended amount around the base of the ball before backfilling.

5.06 STAKING, GUYING AND WRAPPING
- A. Staking or guying and wrapping of trees shall be done immediately after they are planted, as necessary. Each plant shall stand plumb after staking or guying has been completed. It shall be the Contractor's responsibility to ensure that all trees are plumb and secure after planting. Staking of trees of a 10 foot height or less shall be at the discretion of the Owner. All other trees shall be staked.

5.07 MULCHING
- A. Immediately after planting operations are completed, all tree and shrub saucers, and shrub and groundcover beds shall be covered with a 3 inch layer of shredded hardwood mulch. 3 inch depth shall be provided throughout all landscape beds as shown annotated in the drawings.

5.08 PRUNING
- A. Each tree and shrub shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner fitting its use in the landscape design. Pruning shall be done with clean, sharp tools and as indicated on the drawings.
- B. Approximately one third of the growth of large deciduous trees (those with 2 inch caliper or larger) shall be pruned by removal of superfluous branches. Main leaders of trees shall not be cut back. Branches shall be thinned out and not merely cut back. Long side branches may be shortened. Shrubbery with extremely heavy tops shall have one fourth to one third of the weaker growth removed by thinning.

5.09 CLEANUP
- A. During the course of planting, excess and waste materials shall be continuously and promptly removed daily, lawns kept clear, and all reasonable precautions taken to avoid damage to existing structures, plants and grass. After completion of the work, the entire site shall be cleared of excess soils, waste material, debris and all objects that may hinder maintenance and affect the visual appearance of the site.

  The Contractor shall clean all roads and walks of dirt film and soil clods. The Contractor shall also pressure clean and broom sweep all asphalt pavement prior to the final lift of asphalt to be laid.

5.10 DISTURBED AREAS
- A. All areas outside of the limits of work that are disturbed by the Contractor's construction activities shall be repaired and replanted to its original condition.

Part 6.00 Guarantees

6.01 GUARANTEED PROVING PERIOD
- A. There shall be a guarantee period of 1 year for trees and specimen material and 1 year for shrubs. This guarantee period shall start at the final acceptance date. Contractor shall replace any and all plant material, which die during this guarantee proving period. Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor, except for possible replacements of plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement for trees and specimen material and 1 year for shrubs).
- B. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying, wrapping and mulching, straightening of plants which lean or sag and which develop more than a normal amount of settlement such adjustments to include excavating around and leveling or raising the ball when so directed and all other incidental work necessary for proper maintenance as directed by the Owner until substantial completion and written release.
- C. Transplanted material (if applicable) shall not be guaranteed, however, good horticultural practices should be used before, during and after the material is transplanted. Good horticultural practices should include but not be limited to, all necessary watering, pruning and spraying, wrapping and mulching, fertilizing, moving, maintaining the same orientation and grade level from the original location, and all other incidental work necessary for proper transplanting.

6.02 FINAL INSPECTION AND ACCEPTANCE
- A. The Contractor shall notify the Owner in writing when the work has been completed in accordance with this Contract and request an inspection. The Owner will make the inspection of the work and report findings as to acceptability and completeness. Any work remaining to be done shall be subject to reinspection before final acceptance. The Contractor will be notified in writing by the Owner of the final acceptance of the work.

6.03 CONTRACTOR'S RESPONSIBILITY AFTER ACCEPTANCE
- A. The Owner may elect to assume maintenance of all work, at the time of acceptance, or may elect to contract for maintenance by others for a specified period. Should maintenance after final acceptance be the responsibility of those other than the Contractor, the Contractor shall monitor all work for which he is responsible by guarantee, to assure that maintenance being performed will not jeopardize the condition and quality of the work and materials guaranteed by the Contractor. Any inadequate or damaging maintenance practices shall be reported immediately in writing to the Owner so that appropriate measures may be taken to correct the condition. Failure to so notify the Owner will invalidate any later claim of negligence or malpractice in maintenance.

6.04 ACCEPTANCE AND REPLACEMENT OF PLANT MATERIAL
- A. At the expiration of the proving period, an inspection of the plantings will be made by the Owner. Only those plants that are alive and normally healthy will be accepted. Unaccepted material shall be removed and replaced by the Contractor at his own expense, during the next planting season. Material and method of replacement planting shall be the same as specified for the original planting unless otherwise directed. The Contractor shall continue to make replacements until a plant shows vigorous and healthy growth for a period of 1 year from the date of acceptance by the Owner. All such replacements will be inspected for acceptance at the end of the proving period by the Owner.

6.05 REQUIRED MAINTENANCE
- A. Landscape contractor shall be responsible for the maintenance and upkeep for 90 days past the final inspection. At that point contact the general manager and determine if the landscape contractor will remain on. If yes, contractor will be responsible for the maintenance and warrantee of all landscaping for one full year. If no, the landscape contractor is to walk the site with the general manager, manager, the facilities manager and the new landscaper and they shall agree that all planting is in good shape prior to the new landscaper taking over.

END OF SECTION

No.	REVISIONS	DATE	BY

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KHA PROJECT 149621089
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LANDSCAPE SPECIFICATIONS

159TH & LAGRANGE RETAIL

CITY OF ORLAND PARK ILLINOIS

SHEET NUMBER
L3.4