LANDSCAPE PLAN FOR: **BMW of ORLAND PARK PARKING LOT EXPANSION**





Owner: Zeigler Auto Group

Engineer: Joseph A. Schudt & Associates 9455 Enterprise Dr. Mokena, IL 60448 708.720.1000

Landscape Architect: Metz & Company 826 E. Maple Street Lombard, IL 60148 630.561.3903

Site Location Map



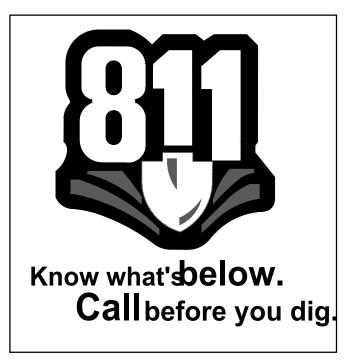
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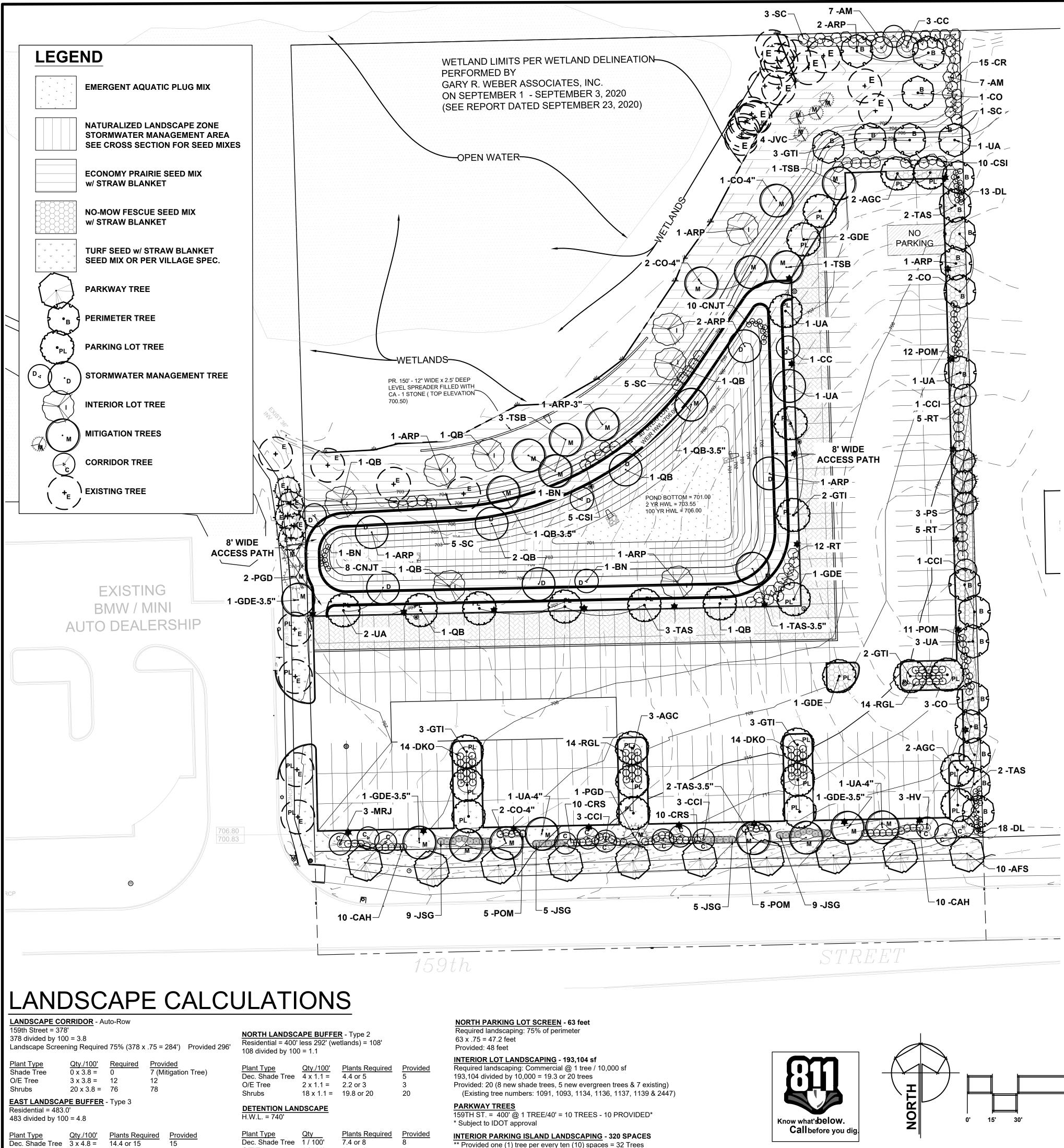
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DESCRIPTION

COVER SHEET LANDSCAPE PLAN LANDSCAPE DETAILS TREE PRESERVATION PLAN



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** Provided one (1) tree per every ten (10) spaces = 32 Trees ** Deviation from language of Code for tree location

77

1 / 200'

3 / 50'

3.7 or 4

49.7 or 50

50

O/E Tree

Shrubs

1 x 4.8 = 4.8 or 5 16 x 4.8 76.8 or 77

O/E Tree

Shrubs

GENERAL NOTES:

Plant material shall be nursery grown and be either balled and bur-lapped or container grown. Sizes and spreads on plant list represent minimum requirements.

The requirements for measurement, branching and ball size shall conform to the latest addition of ANSI Z60.1, AMERICAN STANDARD OF NURSERY STOCK by the American Nursery & Landscape Association.

Any materials with damaged or crooked/disfigured leaders, bark abrasion, sunscald, insect damage, etc. are not acceptable and will be rejected. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump (cl.).

If any mistakes, omissions, or discrepancies are found to exist with the work product, the Landscape Architect shall be promptly notified so that they have the opportunity to take any steps necessary to resolve the issue. Failure to promptly notify the Landscape Architect and the Owner of such conditions shall absolve them from any responsibility for the consequences of such failure.

Under no circumstances should these plans be used for construction purposes without examining actual locations of utilities on site, and reviewing all related documents mentioned herein, including related documents prepared by the project Civil Engineer and Architect.

Civil Engineering or Architectural base information has been provided by others. The location of various site improvements on this set of drawings is only illustrative and should not be relied upon for construction purposes.

Quantity lists are supplied as a convenience. However, Bidders and the Installing Contractor should verify all quantities. The drawings shall take precedence over the lists. Any discrepancies shall be reported to the Landscape Architect.

Actions taken without the knowledge and consist of the Owner and the Landscape Architect or in contradiction to the Owner and the Landscape Architect's work product or recommendations, shall become the responsibility not of the Owner and the Landscape Architect, but for the parties responsible for the taking of such action.

Refer to Civil Engineering documents for detailed information regarding size, location, depth and type of utilities, as well as locations of other site improvements, other than landscape improvements,

Plant symbols illustrated on this plan are a graphic representation of proposed plant material types and are intended to provide for visual clarity. However, the symbols do not necessarily represent actual plant spread at the time of installation.

All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Village, Landscape Architect and Owner.

The Landscape Contractor shall verify location of all underground utilities prior to digging by calling "J.U.L.I.E." (Joint Utility Location for Excavators) 1-800-892-0123 and any other public or private agency necessary for utility location.

All perennial, ornamental grass, groundcover and annual beds shall be top dressed with a minimum of three inches (3") of mushroom compost. The top dressing shall be worked into the soil to a minimum depth of nine inches (9") by the use of a cultivating mechanism. Upon completion perennials & ornamental grasses shall be mulched with an additional two inch (2") layer of shredded wood mulch; Annuals & groundcovers shall be covered with an additional two inch (2") layer of mushroom compost.

PLANT LIST

PLANTL	ISI			
<u>KEY</u>	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	SIZE/ <u>TYPE</u>
		DECIDUOUS SHADE TREES		
AFS	10	Acer f 'Sienna'	Sienna Glen Freeman Maple	2.5" BB
AGC	7	Acer n. 'Green Column'	Green Column Black Maple	2.5" BB
AGC		Acer r. 'Red Point'	Red Point Red Maple	2.5" BB
ARP	1	Acer r. 'Red Point'	Red Point Red Maple	3.0" BB
CO	6	Celtis occidentalis	Hackberry	2.5" BB
CO	5	Celtis occidentalis	Hackberry	4.0" BB
GTI	13	Gleditsia t.i.'Impole'	Imperial Honeylocust	2.5" BB
GDE	4	Gymnocladus d. 'Espresso'	Espresso KentuckyCoffeetree	2.5" BB
GDE	3	Gymnocladus d. 'Espresso'	Espresso Kentucky Coffeetree	3.5" BB
QB	9	Quercus bicolor	Swamp White Oak	2.5" BB
QB	2	Quercus bicolor	Swamp White Oak	3.5" BB
TSB	5	Taxodium d. 'Mickelson'	Shawnee Brave Bald Cypress	2.5" BB
TAS	7	Tilla a.'McKSentry'	American Sentry Linden	2.5" BB
TAS	3	Tilla a.'McKSentry'	American Sentry Linden	3.5" BB
UA	9	Ulmus 'Morton'	Accolade Elm	2.5" BB
UA	2	Ulmus 'Morton'	Accolade Elm	4.0" BB
		EVERGREEN TREES		
PGD	3	Picea g. 'Densata'	Black Hills Spruce	6' BB
JVC	4	Juniperus v. 'Canaertii'	Eastern Red Cedar	6' BB
PS	3	Pinus strobus	Eastern White Pine	6'BB
		DECIDUOUS ORNAMENTAL TREES		
BN	3	Betula nigra	River Birch	6' BBcl.
CC	4	Cercis canadensis	Eastern Redbud	6' BBcl.
CCI	8	Crataegus c. inermis	Thornless Cockspur Hawthorn	6' BBcl.
HV	3	Hamamelis virginiana	Common Witch Hazel	6' BBcl
MRJ	3	Malus 'Red Jewel'	Red Jewel Crabapple	2.0" BB
		DECIDUOUS & EVERGREEN SHRUBS	<u>5</u>	
AM	14	Aronia melanocarpa	Black Chokeberry	3' BB
CNJT	18	Ceanothus americanua	New Jersey Tea	24"/#5
CRS	20	Clethra a. 'Ruby Spice'	Ruby Spice Summersweet	36"
CR	15	Cornus racemosa	Grey Dogwood	3' BB
CSI	15	Cornus s. 'Insanti'	Redosier Dogwood	36"
CAH	20	Corylus americana	American Hazelnut	36"
DL	31	Diervilla I. 'Copper'	Copper Dwarf Bush Honeysuckle	18"/#3
DKO	28	Diervilla r. 'G2X88544'	Orange Kodiak Diervilla	18"/#3
POM	33	Physocarpus o. 'Mindia'	Coppertina Ninebark	36"
JSG	28	Juniperus c. 'Sea Green'	Sea Green Juniper	36"
RGL	28	Rhus a.'Gro-Low'	Gro-Low Sumac	18"/#3
RT	22	Rhus t. 'Laciniata'	Cutleaf Staghorn Sumac	30"/#5
SC	14	Sambucus canadensis	Elderberry	24"/#5
MATERI	AL & L	ABOR LIST:		
<u>QTY</u>		ITEM	DESCRIPTION	
850 1,265		Emergent Aquatic Plugs Native Seed w/ Straw Blanket	See Plug List Naturalized Landscape Zone	•
4,360	SY	Native Seed w/ Straw Blanket	S75 by North American Green (or eq Economy Prairie Seed Mix S75 by North American Green (or eq	
560	SY	Native Seed w/ Straw Blanket	No-Mow Fescue Seed Mix	
1,645	SY	Seed w/ Straw Blanket	S75 by North American Green (or eq Kentucky Bluegrass Blend w/Perenn S75 by North American Green (or eq	nial Rye
58	CY	Mulch	Shredded Hardwood Bark	
	YR	Native Area Maintenance	Monitoring & Reporting Program	
2				

AFS 10 Acer 1 Sienna' Sienna Gien Freeman Maple 2.5*88 ACC 7 Acer 1, Sienna' Green Column Black Maple 2.5*88 ACC 7 Acer 1, Stee Point Red Point Red Maple 3.0*88 CO 6 Cellis occidentalis Hackberry 2.5*58 CO 5 Celis occidentalis Hackberry 4.0*88 GDE 4 Gymnoldudus d. Espresso' Espresso Kentuck/ Colffeetree 2.5*88 GDE 9 Quercus bioolor Swamp While Oak 3.5*88 CB 2 American Sentry Linden 3.5*88 CA 3 Tilla 3.McKSentry American Sentry Linden 3.5*88 CA 4 Juniperus V'Canaerti' Eastern Red Cedar 6*88 CA 4 Juniperus V'Canaerti' Eastern Red Died Eim 4.0*088 JVC 4	<u>KEY</u>	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	SIZE/ <u>TYPE</u>	
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CNJT18Ceanothus americanuaNew Jersey Tea24"#5CRS20Clethra a. 'Ruby Spice'Ruby Spice Summersweet36"CR15Cornus racemosaGrey Dogwood3'BBCSI15Cornus s. 'Insanti'Redosier Dogwood36"CAH20Corylus americanaAmerican Hazelnut36"DL31Diervilla 1. 'Copper'Copper Dwarf Bush Honeysuckle18"#3DKO28Diervilla 1. 'Copper'Copper Dwarf Bush Honeysuckle18"#3POM33Physocarpus o. 'Mindia'Coppertina Ninebark36"JSG28Juniperus c. 'Sea Green'Sea Green Juniper36"RGL28Rhus a.'Gro-Low'Gro-Low Sumac18"#3RT22Rhus t. 'Laciniata'Cutleaf Staghorn Sumac30"#5SC14Sambucus canadensisElderberry24"#5MATERIAL & LABOR LIST:QTYITEMDESCRIPTION850EachEmergent Aquatic PlugsSee Plug List1,265SYNative Seed w/ Straw BlanketNaturalized Landscape Zone S75 by North American Green (or equal)4,360SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58CYMulchShredded Ha			DECIDUOUS & EVERGREEN SHRUBS	2		
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POM33Physocarpus o. 'Mindia'Coppertina Ninebark36"JSG28Juniperus c. 'Sea Green'Sea Green Juniper36"RGL28Rhus a.'Gro-Low'Gro-Low Sumac18"#3RT22Rhus t. 'Laciniata'Cutleaf Staghorn Sumac30"#5SC14Sambucus canadensisElderberry24"#5MATERIAL & LABOR LIST:QTYITEMDESCRIPTION850EachEmergent Aquatic PlugsSee Plug List1,265SYNative Seed w/ Straw BlanketNaturalized Landscape Zone S75 by North American Green (or equal)4,360SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)560SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58CYMulchShredded Hardwood Bark	DL	31	Diervilla I. 'Copper'	Copper Dwarf Bush Honeysuckle	18"/#3	
JSG28Juniperus c. 'Sea Green'Sea Green Juniper36"RGL28Rhus a. 'Gro-Low'Gro-Low Sumac18"#3RT22Rhus t. 'Laciniata'Cutleaf Staghorn Sumac30"#5SC14Sambucus canadensisElderberry24"#5MATERIAL & LABOR LIST:QTYITEMDESCRIPTION850EachEmergent Aquatic PlugsSee Plug List1,265SYNative Seed w/ Straw BlanketNaturalized Landscape Zone4,360SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)560SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix560SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix1,645SYSeed w/ Straw BlanketS75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58CYMulchShredded Hardwood Bark	DKO	28	Diervilla r. 'G2X88544'	Orange Kodiak Diervilla	18"/#3	
RGL RT 2228Rhus a.'Gro-Low' Rt us t.'Laciniata' SCGro-Low Sumac Cutleaf Staghorn Sumac Elderberry18"#3 30"#5 24"#5MATERIAL & LABOR LIST:DESCRIPTIONQTYITEM ITEMDESCRIPTION850Each Emergent Aquatic Plugs 1,265See Plug List Native Seed w/ Straw BlanketNaturalized Landscape Zone S75 by North American Green (or equal)4,360SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)560SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58CYMulchShredded Hardwood Bark	POM	33	Physocarpus o. 'Mindia'	Coppertina Ninebark	36"	
RT22Rhus t. 'Laciniata'Cutleaf Staghorn Sumac30"#5SC14Sambucus canadensisElderberry24"#5MATERIAL & LABOR LIST:DESCRIPTIONQTYITEMDESCRIPTION850EachEmergent Aquatic PlugsSee Plug List1,265SYNative Seed w/ Straw BlanketNaturalized Landscape Zone4,360SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)560SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix560SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)1,645SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)1,645SYMulchShredded Hardwood Bark	JSG	28	Juniperus c. 'Sea Green'	Sea Green Juniper	36"	
SC14Sambucus canadensisElderberry24"#5MATERIAL & LABOR LIST:QTYITEMDESCRIPTION850 EachEmergent Aquatic Plugs Native Seed w/ Straw BlanketSee Plug List Naturalized Landscape Zone S75 by North American Green (or equal)4,360 SYNative Seed w/ Straw BlanketEconomy Prairie Seed Mix S75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketS75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketS75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark	RGL	28	Rhus a.'Gro-Low'	Gro-Low Sumac	18"/#3	
QTY ITEM DESCRIPTION 850 Each Emergent Aquatic Plugs See Plug List 1,265 SY Native Seed w/ Straw Blanket Naturalized Landscape Zone 4,360 SY Native Seed w/ Straw Blanket Economy Prairie Seed Mix 560 SY Native Seed w/ Straw Blanket No-Mow Fescue Seed Mix 560 SY Native Seed w/ Straw Blanket S75 by North American Green (or equal) 560 SY Native Seed w/ Straw Blanket No-Mow Fescue Seed Mix 575 by North American Green (or equal) S75 by North American Green (or equal) 1,645 SY Seed w/ Straw Blanket Kentucky Bluegrass Blend w/Perennial Rye 58 CY Mulch Shredded Hardwood Bark	RT	22	Rhus t. 'Laciniata'	Cutleaf Staghorn Sumac		
QTYITEMDESCRIPTION850 EachEmergent Aquatic PlugsSee Plug List1,265 SYNative Seed w/ Straw BlanketNaturalized Landscape Zone4,360 SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix1,645 SYSeed w/ Straw BlanketS75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketS75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark	SC	14	Sambucus canadensis	Elderberry	24"/#5	
850 EachEmergent Aquatic PlugsSee Plug List1,265 SYNative Seed w/ Straw BlanketNaturalized Landscape Zone4,360 SYNative Seed w/ Straw BlanketS75 by North American Green (or equal)4,360 SYNative Seed w/ Straw BlanketEconomy Prairie Seed Mix560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix1,645 SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark	MATERI	AL & L	ABOR LIST:			
1,265 SYNative Seed w/ Straw BlanketNaturalized Landscape Zone S75 by North American Green (or equal)4,360 SYNative Seed w/ Straw BlanketEconomy Prairie Seed Mix S75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark						
4,360 SYNative Seed w/ Straw BlanketEconomy Prairie Seed Mix S75 by North American Green (or equal)560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark			-	Naturalized Landscape Zone	ual)	
560 SYNative Seed w/ Straw BlanketNo-Mow Fescue Seed Mix S75 by North American Green (or equal)1,645 SYSeed w/ Straw BlanketKentucky Bluegrass Blend w/Perennial Rye S75 by North American Green (or equal)58 CYMulchShredded Hardwood Bark	4,360	SY	Native Seed w/ Straw Blanket	Economy Prairie Seed Mix		
58 CY Mulch S75 by North American Green (or equal) Shredded Hardwood Bark			Native Seed w/ Straw Blanket	No-Mow Fescue Seed Mix S75 by North American Green (or eq	ual)	
				S75 by North American Green (or eq	=	
3 YR Native Area Maintenance Monitoring & Reporting Program						
	3	YR	Native Area Maintenance	Monitoring & Reporting Program		

All other planting beds and tree saucers shall be mulched with a minimum of three inches (3") of shredded wood mulch.

Planting beds adjacent to building shall be mulched in their entirety to the building foundation. Plant materials shall not be installed under building overhangs and other such areas which do not receive natural rainfall.

Mulch beds at the time of planting shall extend a minimum of two feet (2') beyond the center of a shrub.

All bed lines and tree saucers shall require a hand spaded edge between lawn and mulched areas.

Grading shall provide slopes which are smooth and continuous. Positive drainage shall be provided in all areas.

Seed mixes shall be applied mechanically so that the seed is incorporated into the top one-half inch (1/2") of the seed bed. The seed shall then be covered with the specified blanket (installed per manufacturer's. specs) or Hydro-mulch.

All plant material shall be guaranteed for one (1) year from the date of acceptance.

cale	RE	VISIONS	
a reproduction that may not be to scale	—		
t be	_		
y no	_		
ma	—		
that	5	Village Review #3	<u>11-12-21</u>
ion 1	4	Submit for Permit	10-08-21
duct	3	Maintenance Path	8-16-21
pro	2	Village Review #2	7-2-21
is a re	<u>1</u>	Village Review #1	<u> </u>
Ξ.			

If this plan is not 24" x 36" in siz	ZEIGLER AUTO GROUP BMW PARKING LOT EXPANSION 10929 W. 159th Street ORLAND PARK, ILLINOIS
y. Any reproduction of the design or the	SEAL: RANDY F. METZ no. 57=000422
rein are the sole property of Metz & Compan	Representation of the street o
d any and all ideas contained he	TITLE LANDSCAPE PLAN
	PROJECT NO.: 20-145 DATE: <u>11-03-2020</u> SCALE: <u>1"=30'</u>
C Copyright 2020 all	

"No-Mow" Maintenance Program

Mowing

"No-Mow" lawns may require occasional mowing during the first two (2) years of establishment to control weeds, especially with lawns that are seeded in spring. Most annual weeds can be controlled by mowing at a heightof four inches (4") in the first growing season. If biennial weeds such as sweet clover, Queen Anne's Lace, burdock, etc. are a problem in the second year, they should be mowed at four inches (4") just as they begin to flower, usually around mid June. This carefully timed mowing will kill most biennials. A few may survive the mowing, and should be mowed at four inches (4") a second time when they re-bloom later in the season.

Once the "No-Mow" lawn is established there are four (4) basic mowing options"

- No mowing at all
- One late spring mowing, usually in early June when the seedheads appear • Fall mowing with a mulching mower, es pecially in wooded areas to chop up fallen leaves
- Regular mowing, usually monthly, to maintain a more "cropped" appearance

No Mowing: This will result in a turf whose leaves grow to about six inches (6") in height that will drape over one another to create a low -growing meadow effect. Seedheads about two feet (2') tall will appear in early to mid June, creating a nice meadow effect. The seedheads will typically fall to the ground by late summer, and the lawn will revert to its normal height of about five to six inches.

Late Spring Mowing: Mowing the "No-Mow' lawn once a year in June when the seedheads appear at a height of four (4) to five (5) inches to remove the seedheads and the turf will re -grow to its normal height.

Fall Mowing: This as a good option for seedlings under or in open woodlands. The fescue grasses usually will not form seadhead s when growing in shade, so June mowing is not required to maintain a normal height. However, leaves from deciduous trees must either be raked up and removed, or chopped up with a mulching mower in order to prevent smothering of the turf over winter.

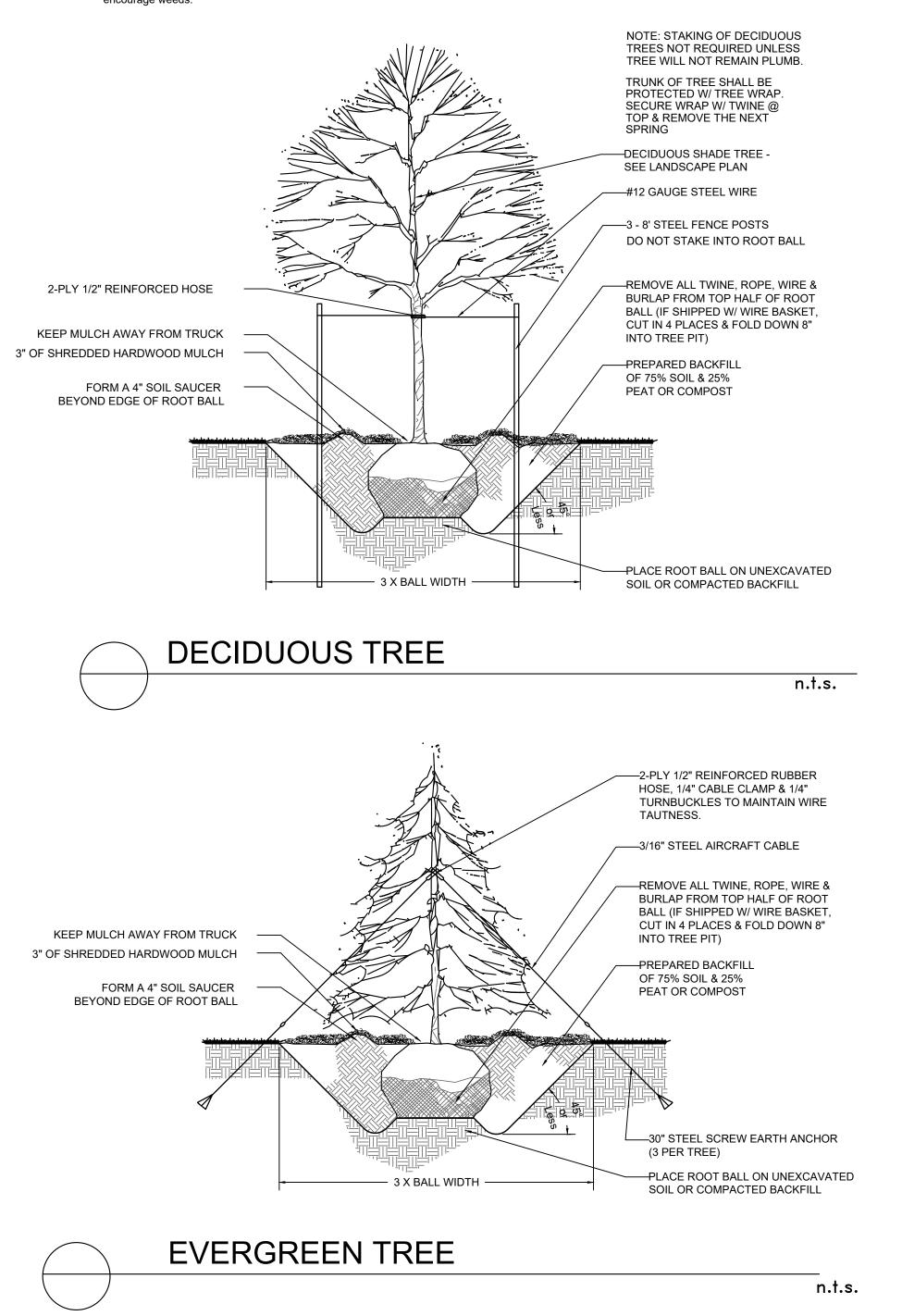
Regular Mowing : For a traditional manicured lawn look, regular mowing can be done every three (3) to four (4) weeks, or when the grass reaches a height of six inches (6"). Most fine fescues do not tolerate close mowing, and should be mowed no lower than 3.5 inches. Never remove more than one third of the total leaf material, or the turf will be damaged. Always cut grass with a sharp mower blade to minimize tearing of the leaves which will cause additional stress to the grass plant.

De-Thatching

Fine fescues tend to develop a thatch layer near the soil surface over time. Thatch is composed of dead grass that does not decompose. It can smother the growth of new grass shoots, reducing the density of the lawn and creating dead spots. The thatch layer also tends to retain moisture at the ground level, which can encourage the growth of fungal diseases. Thatch development is encouraged by high levels of soil Nitrogen, and is more common in rich soils and lawns that are regularly fertilized. If thatch builds up to a point where dead grass is visible and grass begins to thin out, the lawn should be de-thatched.

De-thatching can be accomplished using a mechanical de-thatcher or power rack, or by hand using a de-thatching rake. Set mechanical de -thatchers to a depth where they lift the that the without digging up the soil. If the thatch is particularly thick, the de -thatcher will need to be set deeper, and some soil disturbance will likely occur. The thatch should be racked out of the lawn and removed. If open soil is visible following de-thatching, the affected areas should then be over-seeded with "No-Mow" lawn mix.

Timing of de-thatching is very important. Cool season fescue lawns should be de-thatched in mid-spring after the grass has greened up and begun active growth. De-thatching in early spring before the lawn begins to grow tends to encourage weeds.



Emergent Plug Mix Plug Spacing @ 24" o.c.

Botanical Name

Calamagrostis canadensis Carex comosa Carex lacustris Carex lupulina Carex stricta Carex trichocarpa Carex vulpinoidea Juncus effusus Leersia oryzoides Schoenoplectus acutus Schoenoplectus tabernaemor Scirpus pungens Scirpus atrovirens Scirpus cyperinus

Acornus calamus Alisma subcordatatum Asclepias incarnata Eutrochium maculatum Hibissus moscheutos Iris virginica shrevei Lobelia cardinalis Lycopus americanus Lythrum alatum Mimulus ringens

Pontederia cordata Sagittaria latifolia Solidago patula

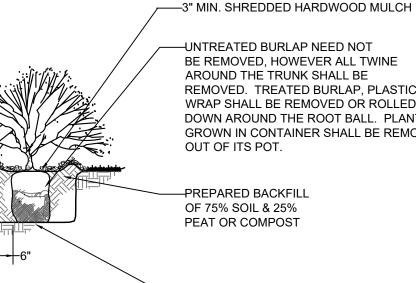
Sparganium eurycarpum

	1		
	Common Name	%	Quantity
	Blue Joint Grass	1.50	13
	Bristly Sedge	5.00	43
	Common Lake Sedge	2.00	17
	Common Hop Sedge	1.50	13
	Common Tussock Sedge	2.00	17
	Hairy-fruited Lake Sedge	5.00	43
	Brown Fox Sedge	5.50	47
	Common Rush	1.00	9
	Rice Cut Grass	2.00	17
	Hardstem Bulrush	1.00	9
ontani	Great Bulrush	3.00	26
	Chairmakers Rush	5.00	43
	Dark Green Rush	1.00	9
	Wool Grass Rush	2.00	17
	Grass/Sedge/Rush Subtotal	37.50	319
	Sweet Flag	3.00	26
	Common Water Plaintain	1.00	9
	Swamp Milkweed	3.00	26
	Spotted Joe Pye Weed	2.00	17
	Swamp Rosemallow	3.00	26
	Blue Flag	12.00	102
	Cardinal Flower	2.00	17
	Waterhorehound	1.50	13
	Winged Loosestrife	2.00	17
	Monkey Flower	3.00	26
	Pickerelweed	2.00	17
	Common Arrowhead	13.00	111
	Swamp Goldenrod	2.00	17
	Great Bur Reed	13.00	111
	Wildflower Subtotal	62.50	531
	SEED MIX TOTAL	100.00	850

WET-TO-MESIC PRAIRIE SEED MIX Cardno-JFNew

BOTANICAL/ (COMMON) NAME	PLS OZ./Ad
PERMANENT MATRIX:	
Andropogon gerardii (Big Bluestem) Calamagrostis canadensis (Bluejoint Grass) Carex spp (Prairie Sedge Mix) Carex lurida (Bottlebrush Sedge) Elymus virginicus (Virginia Wild Rye) Panicum virgatum (Swtich Grass) Scirpus pendulus (Red Bulrush) Sorghastrum nutans (Indian Grass) Spartna pectinata (Prairie Cord Grass)	24.00 1.00 4.00 2.00 24.00 2.00 0.25 6.00 <u>3.00</u> TAL 66.25
TEMPORARY COVER:	
Avena sativa (Seed Oats)	360.00 TAL 360.00
FORBS:	
Aster novae-angliae (New England Aster) Baptisia lactea (White Wild Indigo) Chamaecrista fasciculata (Partridge Pea) Coreopsis lanceolata (Sand Coreopsis) Coreopsis tripteris (Tall Coreopsis) Desmodium illinoense (Illinois Tick Trefoil) Echinacea purpurea (Purple Coneflower) Eryngium yuccifolium (Rattlesnake Master) Helenium autumnale (Sneezeweed) Heliathus grosseserratus (Sawtooth Sunflower) Liatris spicata (Marsh Blazing Star) Monarda fistulosa (Wild Bergamot) Parthenium integrifolium (Wild Quinine) Physostegia virginiana (Obedient Plant) Pycnanthemum virginianum (Common Mountain Mint) Ratibida pinnata (Yellow Coneflower) Rudbeckia hirta (Black-Eyed Susan) Rudbeckia laciniata (Wild Golden Glow) Rudbeckia subtomentosa (Sweet Black-Eyed Susan) Silphium integrifolium (Compass Plant) Silphium integrifolium (Cup Plant) Silphium terebinthinaceum (Prairie Dock) Solidago juncea (Early Goldenrod) Solidago rigida (Stiff Goldenrod) Solidago rugosa (Rough Goldenrod) Tradescantia ohiensis (Common Spiderwort) Vernonia spp. (Ironweed Mix) Veronicastrum virginicum (Culver's Root) Ziziz aurea (Golden Alexanders)	0.25 0.75 12.00 3.50 3.00 0.50 3.50 2.00 2.50 0.50 1.00 1.00 0.25 1.00 5.50 1.00 5.50 1.00 5.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 5.50 1.00 0.50 1.00 5.50 1.00 5.50 1.00 0.50 1.00 5.50 1.00 0.25 1.00 0.25 1.25 3.00 0.25 0.50 1.25 3.00 0.25 0.50 1.25 3.00 0.25 0.50 1.25 1.25 3.00 0.25 0.50 1.25 1.25 3.00 0.25 0.50 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.50 1.50 1.50 1.25 1.25 1.25 1.50 1.50 1.50 1.50 1.25 1.25 1.50 1.50 1.50 1.50 1.50 1.25 1.25 1.25 1.50

Cardno (or equivalent) - Apply at 37.38 PL		e	WETLAND EDGE SEED MIX Cardno - Apply @ 32.83 PLS pounds per acre		
BOTANICAL/ (COMMON) NAME		PLS OZ./Ac	BOTANICAL/ (COMMON) NAME		PLS OZ./A
PERMANENT MATRIX:			PERMANENT MATRIX:		
Andropogon gerardii (Big Bluestem)		16.00	Carex comosa (Bristly Sedge)		1.00
Bouteloua curtipendula (Side Oats Grama)		18.00	Carex cristatella (Crested Oval Sedge)		2.00
Carex spp. (Prairie Carex Mix)		1.00	Carex frankii (Bristly Cattail Sedge)		6.00
Elymus canadensis (Canada Wild Rye)		16.00	Carex vulpinoidea (Brown Fox Sedge)		3.00
Panicum virgatum (Prairie Switch Grass)		2.50	Eleocharis palustris (Great Spike Rush)		0.50
Schizachyrium scoparium (Little Bluestem)	24.00	Elymus virginicus (Virginia Wild Rye)		12.00
Sorghastrum nutans (Indian Grass)		<u>18.00</u>	Glyceria striata (Fowl Manna Grass)		1.00
	TOTAL	. 95.50	Juncus effusus (Common Rush)		1.00
			Leersia oryzoides (Rice Cut Grass)		0.50
TEMPORARY COVER:			Scirpus atrovirens (Dark Green Bulrush)		1.00
		000.00	Scirpus cyperinus (Wool Grass)		0.75
Avena sativa (Seed Oats)		360.00	Scirpus fluviatilis (River Bulrush)		0.50
Lolium multiflorum (Annual Rye)	TOTAL	100.00	Scirpus pungens (Chairmaker's Rush))		1.00
	TOTAL	. 460.00	Scirpus validus (Great Bulrush)	TOTAL	2.50
FORBS:				TOTAL	32.75
		1.00	TEMPORARY COVER:		
Asclepias syriaca (Common Milk)		1.00			
Asclepias tuberosa (Butterfly Weed)		1.00	Avena sativa (Seed Oats)		360.00
Aster laevis (Smooth Blue Aster)		0.50	Lolium multiflorum (Annual Rye)		100.00
Aster novae-angliae (New England Aster)		0.75 9.00		TOTAL	460.00
Chamaecrista fasciculata (Partridge Pea)		9.00 5.00	50550		
Coreopsis lanceolata (Sand Coreopsis) Echinacea purpurea (Purple Coneflower)		7.50	FORBS:		
Heliopsis helianthoides (False Sunflower)		0.25			0.50
Lupinus perennis (Wild Lupine)		1.00	Acorus calamus (Sweet Flag)		0.50
Monarda fistulosa (Wild Bergamot)		0.50	Alisma spp. (Water Plantain Mix)		2.00
Penstemon digitalis (Foxglove Beard Tongu	Ie)	1.00	Asclepias incarnata (Swamp Milkweed)		2.00
Pycnanthemum virginianum (Common Mou		0.50	Aster puniceus (Bristly Aster)		1.00
Ratibida pinnata (Yellow Coneflower)		3.50	Aster umbellatus (Flat-Top Aster)		0.25 2.00
Rudbeckia hirta (Black-Eyed Susan		8.00	Bidens spp. (Bidens Mix)		
Solidago speciosa (Showy Goldenrod)		1.00	Eupatorium perfoliatum (Common Boneset) Helenium autumnale (Sneezeweed)		1.00 2.00
	TOTAL		Iris virginica (Blue Flag)		4.00
			Lobelia cardinalis (Cardinal Flower)		0.10
			Lobelia siphiltica (Great Blue Lobelia)		0.10
NO MOW FESCUE SEED MI	Y		Lycopus americanus (Common Water Horehound)		0.25
	^		Mimulus ringens (Monkey Flower)		1.50
Prairie Nursery Westfield, WI			Penthorum sedoides (Ditch Stonecrop)		0.50
COMMON NAME	PERCENT	GERMINATION	Polyonum spp. (Smartweed Mix)		0.50
	LINCENT		Rudbeckia laciniata (Wild Golden Glow)		0.50
SR5100 Chewings Fescue	23.52%	85%	Sagittaria latifolia (Common Arrowhead)		2.00
Sheep Fescue	23.52%	85%	Senna hebecarpa (Wild Senna)		2.00
Dawson Red Fescue	11.76%	85%	Sparganium eurycarpum)Common Bur Reed)		4.00
SR100 Hard Fescue	11.76%	85%	Thalictrum dasycarpum (Purple Meadow Rue)		0.50
Scaidis Hard Fescue	11.76%	85%	Verbena hastata (Blue Vervain)		1.50
	11.70%	85%	Verbena alternifolia (Wingstem)		2.00
Creeping Red Fescue					2.00
Creeping Red Fescue Annual Ryegrass	3.88%	90%	Vernonia spp. (Ironweed Mix)		2.00



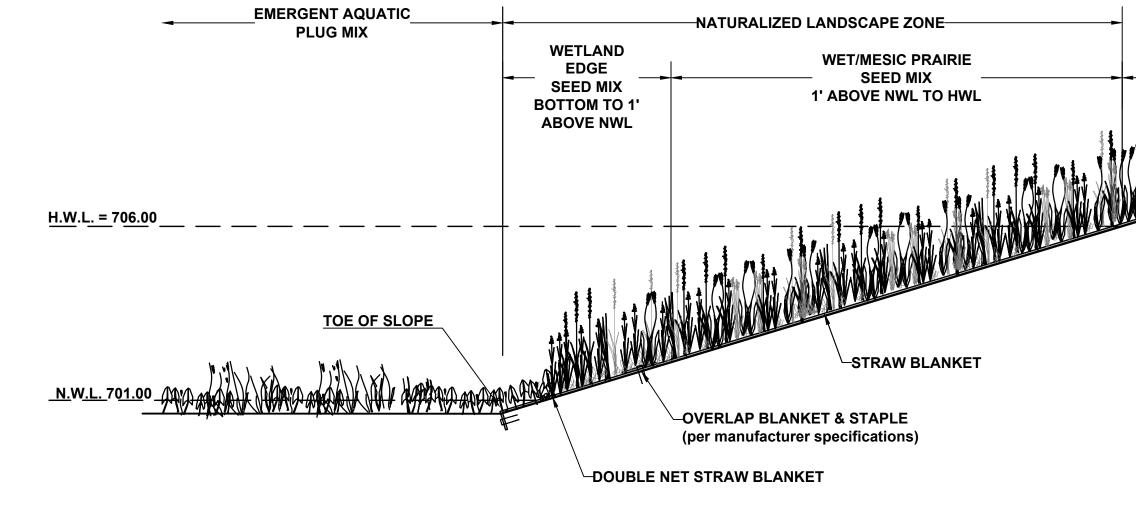
BE REMOVED, HOWEVER ALL TWINE AROUND THE TRUNK SHALL BE REMOVED. TREATED BURLAP, PLASTIC WRAP SHALL BE REMOVED OR ROLLED DOWN AROUND THE ROOT BALL. PLANTS GROWN IN CONTAINER SHALL BE REMOVED OUT OF ITS POT.

PREPARED BACKFILL OF 75% SOIL & 25% PEAT OR COMPOST

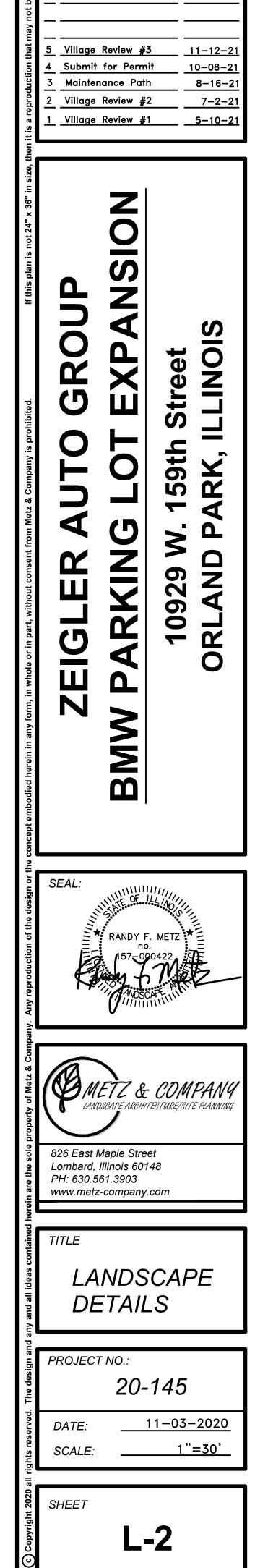
-PLACE ROOT BALL ON UNEXCAVATED SOIL OR COMPACTED BACKFILL

SHRUBS

n.t.s.



NATURALIZED STORMWATER MANAGEMENT AREA



REVISIONS

ECONOMY PRAIRIE SEED MIX ASISHOWN

*NOTE: A 1-ROLL WIDTH OF DOUBLE NET STRAW **EROSION CONTROL MAT** SHALL EXTEND FOR THE ENTIRE SHORELINE OF THE POND.

SEED MIXES TO BE SOWN UNDER THE MAT

n.t.s.

INVASIVE WOODY VEGETATION REMOVAL

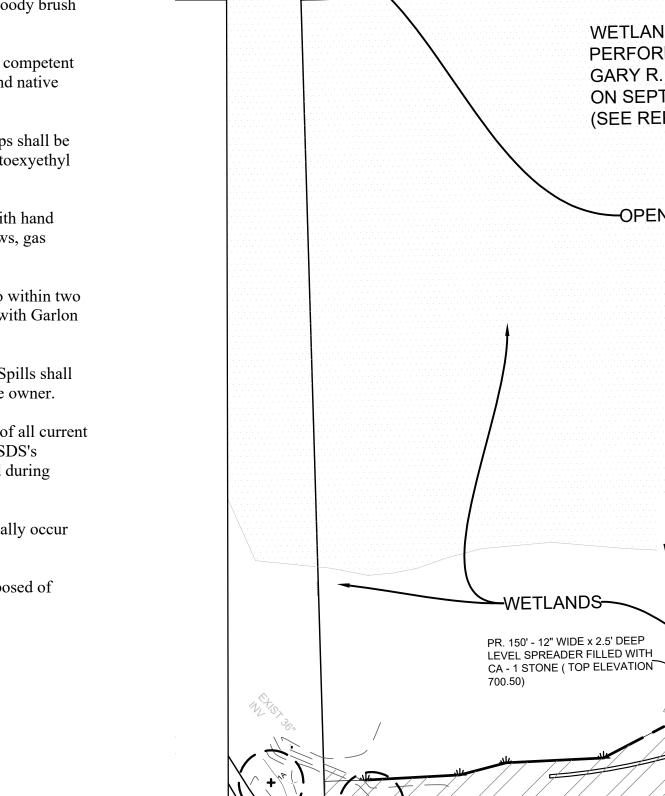
This section includes the selective cutting and disposal of woody brush primarily targeting non-native shrubs.

- 1. Work shall be supervised by a certified arborist who is competent at the identification of plant materials to be removed and native species to be preserved.
- 2. Herbicide to be used for basal applications of cut stumps shall be triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoexyethyl ester, trade name Garlon 4 or equivalent.
- 3. Contractor will cut all woody species to be removed with hand tools including but not limited to gas powered chainsaws, gas powered clearing saws, bow saws, and loppers.
- 4. All stumps shall be cut flat with no sharp points, and to within two inches of surrounding grade. Stumps shall be painted with Garlon 4, or equivalent, immediately after cutting.
- 5. A supply of chemical absorbent shall be kept on-site. Spills shall be properly cleaned up and reported immediately to the owner.
- 6. The contractor shall maintain copies at the project site of all current pesticide applicator's licenses, herbicide labels, and MSDS's (Material Safety Data Sheets) for all chemicals utilized during completion of work.
- 7. Removal of undesirable woody species shall preferentially occur when ground is frozen.
- 8. Cut brush piles shall be removed from the site and disposed of legally rather than burned.
- 9. Species Designated for Removal:

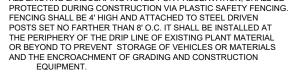
Scientific Name	Common Name	Disposition

Rhamnus spp.	Buckthorn species Remove all			
Lonicera spp.	Honeysuckle species Remove all			
Rosa multiflora	Multiflora Rose	Remove all		
Pyrus calleryana	Callery Pear	Remove all		

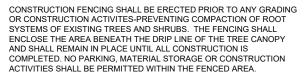
10. Repair: Repair any damages caused by Contractor during completion of the work. Said damages may include but are not limited to tire ruts in the ground, damage to lawn areas, damage to trails, etc. In the event any vegetation to be preserved is damaged, notify the owner within 24 hours. The Contractor will be liable for remedying damages to plant materials to the satisfaction of the owner.

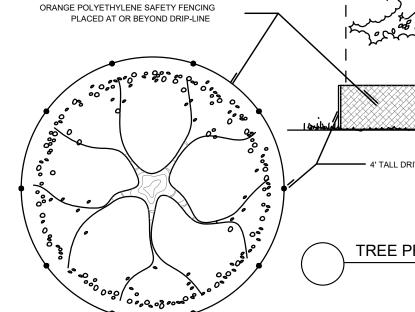


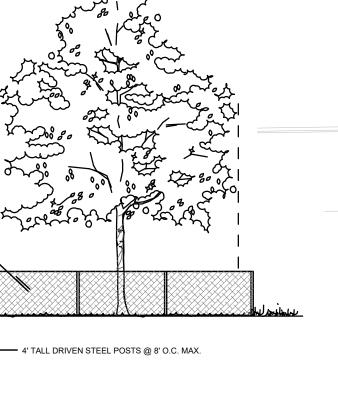
- Anton



ALL EXISTING LANDSCAPING NOTED FOR PRESERVATION, SHALL BE







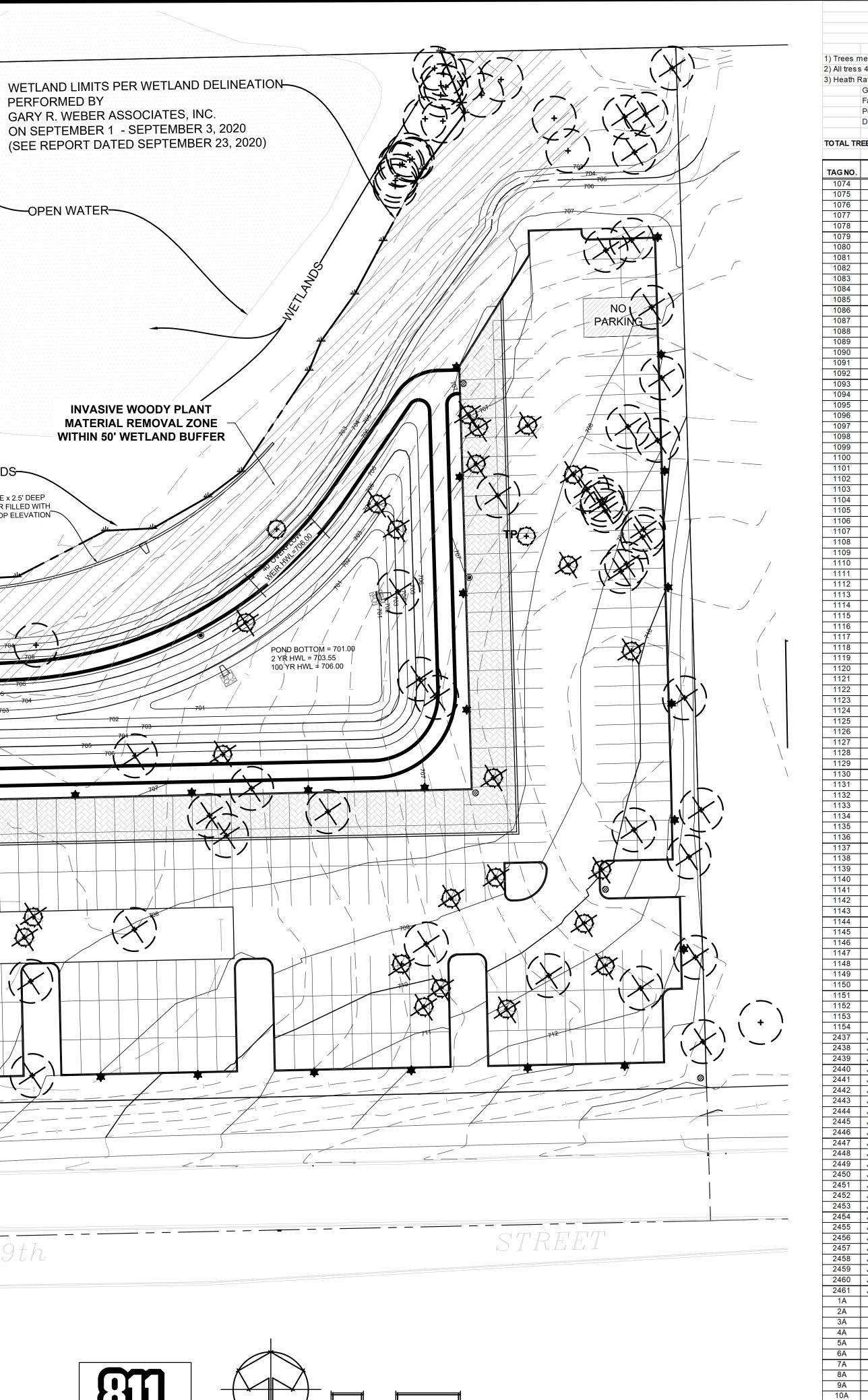
6.80

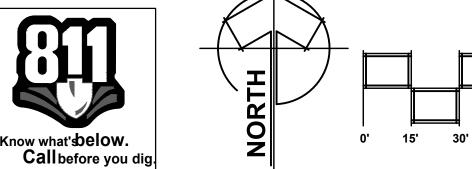


X

-WETLANDS-

TREE PRESERVATION DETAIL





	PROJECT NA CLIENT: Josep	9/3/2020 (Updated 4/28/2021 ME: 10920 W. 159th St. h A. Schudt & Associates)					es REVISIONS
GRWA PROJECT NUMBER: JSA2001 1) Trees measured at 4.5 above the ground - DBH (diameter Breast Height) 2) All tress 4" DBH and above tagged. Did not tag shrubs or Buckthorn								may not be
3) Heath F	Rating: Good - Less than 20% c Fair - 20-60% dead woo	lead wood and sound structu d, unsound structure, minor s	ire signs of diseas					토 <u>5</u> <u>Village Review #3</u> <u>11-12-21</u>
	Dead - Greater than 90%	od, structural damage, heavy 6 dead wood or dead crown v	-					Opposition4Submit for Permit10-08-213Maintenance Path8-16-212Village Review #27-2-21
TOTAL TR	REES REVIEWED:		DBH (inches)	RATING	SAVE	REPLACEMENT	PRESERVATION	ल <u>1 Village Review #1 5−10−21</u> .º .±
1074 1075 1076	Acer saccharinum Acer saccharinum Acer saccharinum	Silver Maple Silver Maple Silver Maple	10, 14, 18 22, 12,10, 10	Fair	NO NO NO	TREES N/A N/A N/A		size, then
1070 1077 1078 1079	Prunus serotina Prunus serotina Acer saccharinum	Black Cherry Black Cherry Silver Maple	8 8 22, 14	Poor Poor Poor	NO NO NO	N/A N/A N/A		36" in
1080 1081	Ulmus americana Malus prunifolia	American Elm Plum-leaved Crab Apple	8 11	Fair Fair	NO NO	2 1		O O
1082 1083 1084	Ulmus americana Ulmus americana Malus prunifolia	American Elm American Elm Plum-leaved Crab Apple	10 4 4	Good Good Good	NO NO NO	2 2 1		φ.
1085 1086 1087 1088 1089	Malus prunifolia Morus alba Malus prunifolia Malus prunifolia Malus prunifolia	Plum-leaved Crab Apple White Mulberry Plum-leaved Crab Apple Plum-leaved Crab Apple Plum-leaved Crab Apple	5,5 4,3 6,4 10,7 7,6,6,5	Fair Fair Poor Fair Poor	NO NO NO NO	1 N/A N/A 2 3		AD BASS S S S S S S S S S S S S S S S S S
1090 1091 1092	Morus alba Ulmus americana Pyrus calleryana	White Mulberry American Elm Callery Pear	18 7 6, 6	Fair Good Good	YES YES NO	N/A N/A	\$ 1,050.00	
1093 1094 1095	Ulmus americana Pyrus calleryana Pyrus calleryana	American Elm Callery Pear Callery Pear	9 multi, 12 10, 3	Good Fair Fair	YES NO NO	N/A N/A	\$ 1,350.00	
1096 1097 1098	Morus alba Pyrus calleryana Ulmus americana	White Mulberry Callery Pear American Elm	5 multi, 4, 5, 2 5	Fair Fair Good	NO NO NO	N/A N/A 2		JTO G JTO G OT E 59th Sti RK, ILL
1099 1100 1101	Pyrus calleryana Ulmus americana Ulmus americana	Callery Pear American Elm American Elm	7,7 8,3 10	Fair Good Good	NO NO NO	N/A 2 2		
1102 1103 1104	Ulmus pumila Malus prunifolia Ulmus americana	Siberian Elm Plum-leaved Crab Apple American Elm	4.5 4, 3, 2, 2 6	Fair Fair Poor	NO NO NO	N/A 1 N/A		
1105 1106 1107	Morus alba Ulmus pumila Ulmus pumila	White Mulberry Siberian Elm Siberian Elm	14 20 5	Fair Poor Fair	NO NO YES	N/A N/A OFF-SITE		
1108 1109 1110	Malus prunifolia Ulmus pumila Prunus serotina	Plum-leaved Crab Apple Siberian Elm Black Cherry	5,4 10 12	Fair Poor Poor	NO NO NO	1 N/A N/A		Alter to the art, without consent from Metz ZEIGLER A W PARKING 10929 W. 1 ORLAND PA
1111 1112 1113	Morus alba Pyrus calleryana Pyrus calleryana	White Mulberry Callery Pear Callery Pear	14, 16 m ulti, 5 m ulti, 5	Fair Fair Fair	NO NO NO	N/A N/A N/A		
1114 1115 1116	Pyrus calleryana Pyrus calleryana Populus deltoides	Callery Pear Callery Pear Eastern Cottonwood	multi, 4 5, 5 8,7,8	Fair Fair Poor	NO NO NO	N/A N/A N/A		
1117 1118 1119	Ulmus americana Salix nigra Populus deltoides	American Elm Black Willow Eastern Cottonwood	5 16,9 6	Poor Poor Fair	YES YES YES	N/A N/A N/A		
1120 1121 1122	Populus deltoides Populus deltoides Populus deltoides	Eastern Cottonwood Eastern Cottonwood Eastern Cottonwood	8 6 8	Dead Dead Fair	YES YES YES	N/A N/A N/A		
1123 1124 1125	Salix nigra Salix nigra Populus deltoides	Black Willow Black Willow Eastern Cottonwood	14, 16, 5 6 18	Poor Dead Poor	YES YES YES	N/A N/A N/A		
1126 1127 1128 1129	Salix nigra Salix nigra Salix nigra	Black Willow Black Willow Black Willow Black Willow	14, 11 8 14	Poor Poor Poor	YES YES YES YES	N/A N/A N/A N/A		died herein in
1130 1131	Salix nigra Salix nigra Populus deltoides	Black Willow Black Willow Eastern Cottonwood		Poor Poor Poor	YES YES	N/A N/A		
1132 1133 1134 1125	Salix nigra Salix nigra Ulmus americana	Black Willow Black Willow American Elm	10, 12 10, 10, 8 7	Poor Poor Fair	YES YES YES YES	N/A N/A	\$ 1,050.00	Jcept emb
1135 1136 1137 1138 1139	Pyrus calleryana Ulmus americana Ulmus americana Morus alba	Callery Pear American Elm American Elm White Mulberry American Elm	5, 3 10 4 multi 8, 6, 5 8	Good Fair Good Poor Good	NO NO NO	N/A 2 2 N/A 2		ق ع SEAL:
1140 1141 1142	Ulmus americana Ulmus pumila Ulmus americana	Siberian Elm American Elm American Elm	6 4 5, 3	Fair Fair Fair Fair	NO NO NO	2 N/A 2 2		BE NILLAN TE OF ILL NO
1143 1144	Ulmus americana Malus prunifolia Populus alb a	Plum-leaved Crab Apple White Poplar	6,4 5	Good Dead	NO NO	N/A N/A		RANDY F. METZ
1145 1146 1147 1148	Populus alb a Ulmus americana Populus alb a Populus alb a	White Poplar American Elm White Poplar White Poplar	4 6 5 5	Poor Poor Dead Dead	NO NO NO	N/A N/A N/A N/A		Lebroduction
1149 1150 1151	Populus alb a Populus alb a Populus alb a	White Poplar White Poplar White Poplar	4 4 10	Dead Dead Poor	NO NO NO	N/A N/A N/A		
1152 1153 1154	Populus alb a Ulmus americana Ulmus americana	White Poplar American Elm American Elm	8 4 5	Dead Good Good	NO NO NO	N/A 2 2		
2437 2438 2439	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	20 ft (12") 20 ft (12") 8 ft (3")	Good Good Fair	NO NO NO	6 6 2		METZ & COMPANY
2440 2441 2442	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	15 ft (6.5)" 9 ft (3.5") 10 ft (4")	Good Good Good	NO NO NO	6 2 2		o Andscape Architecture/site planning
2443 2444 2445	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	6 ft (2") 12 ft (5") 18 ft (8")	Good Good Good	NO NO NO	2 4 6		826 East Maple Street
2446 2447 2448	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	11 ft (4.5") 20 ft (10") 10 ft (4")	Good Good Good	NO YES NO	4	\$ 1,500.00	PH: 630.561.3903
2449 2450 2451	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	10 ft (4") 20 ft (12") 10 ft (4")	Good Good Good	NO NO NO	2 6 2		
2452 2453 2454 2455	Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	8 ft (3") 15 ft (6.5") 20 ft (10")	Good Good Good	NO NO NO	2 6 6 2		
2455 2456 2457 2458	Juniperus virginiana Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	10 ft (4") 10 ft (4") 12 ft (5") 25 ft (16.5")	Good Poor Good Good	NO NO NO	2 N/A 4 6		PRESERVATION
2458 2459 2460 2461	Juniperus virginiana Juniperus virginiana Juniperus virginiana Juniperus virginiana	Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar Eastern Red Cedar	30 ft (22") 18 ft (8") 12 ft (5")	Good Good Good	NO NO NO	6 6 4		d any
1A 2A 3A	Celtis occidentalis Picea pungens Picea pungens	Hackberry Colorado Spruce Colorado Spruce	4 10 ft (4") 10 ft (4")	Good Good Good	YES YES YES		\$ 600.00	PROJECT NO.: 20-115
4A 5A 6A	Picea pungens Picea pungens Picea pungens	Colorado Spruce Colorado Spruce Colorado Spruce	12 ft (5") 12 ft (5") 12 ft (5") 12 ft (5")	Good Good Good	YES YES YES			
7A 8A 9A 10A	Ginkgo bilob a Ginkgo bilob a Ginkgo bilob a Ginkgo bilob a	Ginkgo Ginkgo Ginkgo Ginkgo	2 2 2 2	Fair Fair Fair Fair	YES YES NO YES	LESS THAN 2.5" LESS THAN 2.5" LESS THAN 2.5" LESS THAN 2.5"		DATE: 11-03-2020 SCALE: 1"=30'
11A	Ginkgo biloba Ginkgo biloba	Ginkgo	2	Fair	YES	LESS THAN 2.5"	\$ 5,550.00	а
	x \$400.00 I Mitigation Inches = 55.5	i x \$150 / inch	\$52,000.00 \$8,325.00				+ 0,000.00	SHEET TO CODVIDENT STEET
Tree Pres	ieu Payment		\$8,325.00 \$5,550.00 \$38,125.00					TP-1
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