

CITY OF MADISON CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

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THE CREST AT EAGLE TRACE : STORMWATER MANAGEMENT PLAN

CITY PROJECT NO. 15481 CONTRACT NO. 9601

PROJECT

LOCATION

SEE PROJECT NO. 15480 FOR OTHER PUBLIC IMPROVEMENTS







ile: U:\User\2405137\Drawings\Production\CET - Stormwater Plans.dwg Details-1 Plotted: Apr 23, 2025 - 1:46p

0 W WEIR 1109.00 24" HERCP ALL w/GATE 1105.15 REGIONAL DETENTION		D'ONOFRIO KOTTKE AND ASSOCIATES, INC. 7530 Wearmail Wig, Madiaan, WT 53717 Plaance 608.033.7530 • Free 608.033.1009 Youn Matural Resource for land develorment
AYER MET AT THE DF AT LEAST 0.50 HE BACKFILL LAYER :KFILLING. CLEAN (FILL MATERIAL.	LTRATTON BASIN DETAILS - OUTLOT 1	TAT EAGLE TRACE
a preconstruction meeting shall be held and notice of the start of work shall be contractor shall be required to attend the preconstruction meeting for any work that rbance permits are in place and any applicable site grading and erosion control plans work are in place and any applicable site grading and erosion control plans and any applicable site grading and erosion control plans are due to bring infiltration basins online at a later date as required an frastructure shall be completed by the date submitted with the erosion control permit. If in stormwater outlots and areas of other public green infrastructure. The Contractor equired as-built survey work. It is unvey work. It is as a store of the city of Costs Sustained. It is as within five (5) working days of final grading being completed, the final the asbuilts within five (5) working days of final grading being completed, the final the asbuilt survey submittal within the allowed two (2) working days.	DETENTION AND INFI	THE CRES
estoration of the Prequalified Contractors Qualified for Approval to Bid on Public Works It two growing seasons. Int seeding and professional ecosystem establishment. Jishment from the initial native plant seeding for a minimum of two consecutive growing be referenced on the plan sheet provided and sealed by the Developer's Engineer and fications Article 207.2(a) for lists of approved seed mixes by site, custom seed mixes ecifications. lishment plan.		FE: 04/23/2025 SED:
nt of existing trees. ad seed mix. eded with native seed mix specified in ecological restoration contract after October 14th. letermine the start of the first year growing season. ar maintenance per plans approved by the City Engineer.	FN	DRAWN BY: TAM I: 24-05-137 Number: 2 OF 3

Seed Installation Location and Rates:

Prairie Seed Mix, Table 1. Prairie Seed Mix, shall be installed along the pond and basin slopes, and over the remainder of the outlot at a rate of 14 lb/acre and approximately 75 seeds/tt². Refer to seed mix.
Wet Pond Perimeter Seed Mix, Table 2. Wet Pond Perimeter Seed Mix, shall be installed in a band covering the safety shelf and 2 ft beyond the waters edge, at a rate of 5 lb/acre and approximately 10 seeds/tt².
Infiltration Basin Bottom Seed Mix, Table 3. Infiltration Basin Bottom Seed Mix, shall be installed in the bottom of the infiltration basin at a rate of 8 lb/acre and approximately 91 seeds/tt².

Table 1. Prairie Seed Mix

Table 2. Wet Pond Perimeter Seed Mix

Table 1. Flame Seed Mix			Seed Metric	s
Nomenci	ature			% Mix by No.
Scientific Name	Common Name	Oz/Acre	Seeds/ft ²	Seeds
Grasses, Sedges, Rushes				
Andropogon gerardii	Big Bluestem	4.0	0.9	1.23
Bouteloua curtipendula	Side oats Grama	60.0	8.3	11.03
Bromus kalmii	Prairie Brome	4.0	0.7	0.98
Carex bicknellii	Bicknell's Oval Sedge	1.0	0.4	0.52
Carex brevior	Fescue Sedge	1.5	1.0	1.33
Carex molesta	Field Oval Sedge	2.0	1.1	1.53
Elymus canadensis	Canada Wild Rye	36.0	4.3	5.74
Elymus virginicus	Virginia Wild Rye	16.0	1.5	2.06
Panicum virgatum	Switch Grass	2.5	0.8	1.07
Schizachyrium scoparium	Little Bluestem	32.0	11.0	14.71
Sorghastrum nutans	Indian Grass	6.0	1.7	2.21
Sporobolus heterolepis	Prairie Dropseed	1.0	0.4	0.49
Forbs			1	
Achillea millefolium	Yarrow	1.0	4.1	5.46
Agastache foeniculum	Blue Giant Hyssop	1.0	2.1	2.76
Allium cernuum	Nodding Onion	1.0	0.2	0.23
Amorpha canescens	Lead Plant	1.0	0.4	0.49
Asclepias syriaca	Common Milkweed	1.0	0,1	0.12
Asclepias tuberosa	Butterfly Weed	2.0	0.2	0.26
Astragalus canadensis	Canadian Milk Vetch	1.0	0.4	0.52
Baptisia alba	White Wild Indiao	1.0	<0.1	0.05
Chamaecrista fasciculata	Partridge Pea	8.0	0.5	0.66
Coreopsis palmata	Prairie Coreopsis	1.0	0.2	0.31
Dalea candida	White Prairie Clover	1.0	0.4	0.58
Dalea purpurea	Purple Prairie Clover	4.0	1.4	1.84
Drymocallis arguta	Prairie Cinquefoil	0.5	2.6	3.52
Echinacea pallida	Pale Purple Coneflower	2.0	0.2	0.32
Echinacea purpurea	Purple Coneflower	2.0	0.3	0.40
Eryngium yuccifolium	Rattlesnake Master	2.0	0.3	0.46
Euthamia graminifolia	Grass-leaved Goldenrod	0.5	4.0	5.36
Heliopsis helianthoides	False Sunflower	2.5	0.4	0.48
Lespedeza capitata	Round-headed Bush Clover	1.0	0.2	0.25
Liatris aspera	Rough Blazing Star	1.0	0.4	0.49
Monarda fistulosa	Wild Bergamot	1.0	1.6	2.15
Oligoneuron rigidum	Stiff Goldenrod	2.0	1.9	2.51
Penstemon digitalis	Foxglove Beardtongue	1.0	3.0	3.98
Pycnanthemum virginianum	Mountain Mint	0.5	2.5	3.37
Ratibida pinnata	Yellow Coneflower	2.0	1.4	1.84
Rudbeckia hirta	Black-eyed Susan	3.0	6.3	8.46
Rudbeckia subtomentosa	Sweet Black-eved Susan	0.5	0.5	0.66
Rudbeckia triloba	Brown-eved Susan	0.5	0.4	0.52
Silphium laciniatum	Compass Plant	2.0	<0.1	0.04
Solidago speciosa	Showy Goldenrod	0.5	1.1	1.46
Symphyotrichum laeve	Smooth Blue Aster	1.5	1.9	2.53
Symphyotrichum novae-angliae	New England Aster	0.8	1.2	1.62
Tradescantia ohiensis	Ohio Spiderwort	2.0	0.4	0.49
Verbena stricta	Hoary Vervain	2.0	1.3	1.72
Zizia aurea	Golden Alexanders	3.5	0.9	1.18

Newser	1 - 4		Seed Metric	s
Nomenc	lature	OziAoro	Canada/82	% Mix by No.
Scientific Name	Common Name	OZIACIE	Seeusit	Seeds
Grasses, Sedges, Rushes				
Calamagrostis canadensis	Blue Joint Grass	1.0	6.4	6.36
Carex comosa	Bottlebrush Sedge	2.0	1.4	1.36
Carex crinita	Fringed Sedge	2.0	1.1	1.04
Carex hystericina	Porcupine Sedge	2.0	1.4	1.36
Carex scoparia	Lance-fruited Oval Sedge	2.0	3.9	3.82
Carex stipata	Common Fox Sedge	3.0	2.3	2.32
Carex vulpinoidea	Brown Fox Sedge	3.0	6.9	6.81
Elymus virginicus	Virginia Wild Rye	32.0	3.1	3.05
Glyceria grandis	American Manna Grass	1.0	1.6	1.59
Glyceria striata	Fowl Manna Grass	1.0	2.1	2.04
Juncus effusus	Common Rush	0.5	11.5	11.36
Schoenoplectus tabernaemontani	Softstem Bulrush	3.5	2.5	2.46
Scirpus atrovirens	Dark-green Bulrush	0.7	7.4	7.31
Scirpus cyperinus	Wool Grass	0.2	7.8	7.72
Spartina pectinata	Prairie Cord Grass	4.0	0.6	0.60
Forbs				
Acorus americanus	Sweet Flag	2.0	0.3	0.30
Alisma subcordatum	American Water Plantain	2.0	2.8	2.73
Asclepias incarnata	Swamp Milkweed	2.0	0.2	0.22
Bidens cernua	Nodding Bur Marigold	1.5	0.7	0.72
Eupatorium perfoliatum	Boneset	1.0	3.7	3.63
Eutrochium maculatum	Joe Pye Weed	1.0	2.2	2.16
Helenium autumnale	Sneezeweed	1.0	3	2.95
Iris virginica	Southern Blue Flag	2.0	<0.1	0.05
Lobelia cardinalis	Cardinal Flower	0.2	1.8	1.82
Lobelia siphilitica	Great Blue Lobelia	0.3	3.4	3.41
Mimulus ringens	Monkey Flower	0.2	10.6	10.45
Sagittaria latifolia	Common Arrowhead	3.0	4.2	4.16
Sparganium eurycarpum	Broad-fruit Bur Reed	3.0	<0.1	0.03
Symphyotrichum puniceum	Swamp Aster	1.0	1.8	1.82
Verbena hastata	Blue Vervain	3.0	6.4	6.34

Diversity and Density Metrics

Plant Type	Species Richness	Total Oz/Acre	Total Seeds/ft ²	% Mix by No. Seeds
Grasses, Sedges, Rushes	15	57.9	59.9	59.23
Forbs	15	23.2	41.2	40.77
Totals	30	81.1	101.1	100

Table 3. Infiltration Basin Bottom Seed Mix

Nomencia	ture		Seed Metrics	5
Scientific Name	Common Name	Oz/Acre	Seeds/ft ²	% Mix by No. Seeds
Grasses Sednes Rushes				
Andronogon gerardij	Big Bluestem	5.0	11	1 27
Bromus ciliatus	Eringed Brome	2.0	0.5	0.51
Bromus kalmii	Prairie Brome	4.0	0.5	0.81
Calamagnastis canadansis	Plue leint Grass	9.0	3.7	3.55
Carav hohhii	Bide Joint Glass	0.5	3.2	1.70
Carex bebbli	Bebbs Oval Sedge	2.0	1.0	1.72
Carex previo	Fescue Seuge	2.0	1.5	1.47
Carex molesta	Field Oval Sedge	2.0	1.1	1.27
Carex Vulpinoidea	Brown Fox Sedge	3.0	6.9	7.60
Elymus canadensis	Canada Wild Rye	24.0	2.9	3.16
Elymus virginicus	Virginia Wild Rye	24.0	2.3	2.56
Glyceria striata	Fowl Manna Grass	1.0	2.1	2.28
Juncus dudleyi	Dudley's Rush	0.2	14.7	16.22
Panicum virgatum	Switch Grass	2.5	0.8	0.89
Schizachyrium scoparium	Little Bluestem	8.0	2.8	3.04
Scirpus atrovirens	Dark-green Bulrush	0.5	5.3	5.83
Sorghastrum nutans	Indian Grass	5.0	1.4	1.52
Spartina pectinata	Prairie Cord Grass	4.0	0.6	0.67
Forbs				
Asclepias incarnata	Swamp Milkweed	2.0	0.2	0.24
Asclepias syriaca	Common Milkweed	2.0	0.2	0.20
Astragalus canadensis	Canadian Milk Vetch	1.0	0.4	0.43
Chamaecrista fasciculata	Partridge Pea	4.0	0.2	0.27
Eupatorium perfoliatum	Boneset	0.5	1.8	2.03
Euthamia graminifolia	Grass-leaved Goldenrod	0.5	4.0	4.44
Eutrochium maculatum	Joe Pve Weed	0.5	1.1	1.20
Helenium autumnale	Sneezeweed	0.5	1.5	1.65
Heliopsis helianthoides	False Sunflower	2.5	0.4	0.40
Hypericum ascyron ssp. pyramidatum	Great St. John's Wort	0.5	2.2	2.41
Liatris pycnostachya	Prairie Blazing Star	1.0	0.3	0.28
I obelia siphilitica	Great Blue Lobelia	0.5	57	6.34
Monarda fistulosa	Wild Bergamot	15	2.4	2.66
Olionneuron riddellii	Riddell's Goldenrod	0.5	11	1.18
Oligoneuron rigidum	Stiff Goldenrod	2.0	1.9	2.08
Parthenium integrifolium	Wild Quinine	1.0	0.2	0.18
Physostecia virciniana	Obedient Plant	1.0	0.2	0.28
Pycnanthemum vircinianum	Mountain Mint	0.5	2.5	2.79
Patihida ninnata	Xollow Conoflowor	2.0	1.0	1.50
Rudhackia bita	Plack aved Sugar	2.0	6.2	7.00
Rudbeckia nina	Black-eyed Susan	5.0	0.5	7.00
Pudheckia triloha	Brown oved Susan	0.5	0.5	0.04
Rubeckia tribba	Blown-eyeu Susan	0.5	0.4	0.45
Suprium megnolum	Rosinweed	2.0	0.1	0.06
Symphyothchum encodes	meaur Aster	0.1	0.5	0.51
Symphyotrichum laeve	Smooth Blue Aster	0.5	0.6	0.70
Symphyotrichum novae-angliae	New England Aster	1.0	1.5	1.67
i nalictrum dasycarpum	Purple Meadow Rue	1.0	0.3	0.28
I radescantia ohiensis	Ohio Spiderwort	1.0	0.2	0.20
Verbena hastata	Blue Vervain	1.0	2.1	2.36
Vernonia fasciculata	Common Ironweed	1.0	0.6	0.61
∠izia aurea	Golden Alexanders	2.5	0.6	0.70

Diversity and Density Metrics

Plant Type	Species Richness	Total Oz/Acre	Total Seeds/ft ²	% Mix by No. Seeds
Grasses, Sedges, Rushes	17	89.7	49.2	54.37
Forbs	31	38.1	41.3	45.63
Totals	48	127.8	90.6	100

Diversity and Density Metrics

Plant Type	Species Richness	Total Oz/Acre	Total Seeds/ft ²	% Mix by No. Seeds
Grasses and Sedges	12	166	32.1	42.9
Forbs	35	57.3	42.8	57.1
Totals	47	223.3	74.9	100

DAT REVIS	SEED MIX DETAILS	
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4/23/2		7530 Westword Way, Madinon, WI 53717 Phone: 608.033.7530 • Far: 608.033.1009
025	CITY OF MADISON, DAME COUNTY, WISCONSIN	YOUR MATURAL RESOURCE FOR LAND DEVELOPMENT