

STORY MILL COMMUNITY PARK BOZEMAN, MONTANA

OWNER:
City of Bozeman
Department of Parks and Recreation

P.O. Box 1230, 415 N. Bozeman Street
Bozeman, MT 59715
Tel: (406)-582-2908

INFORMAL REVIEW SUBMITTAL

NOVEMBER 24, 2015

APPLICANT:
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LANDSCAPE ARCHITECT:
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ARCHITECT:
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Tel: (406) 582-8988

ENGINEER:
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Bozeman, MT 59715

ECOLOGICAL CONSULTANT:
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Denver, CO 80202
Tel: (303) 477-0660

ENVIRONMENTAL CONSULTANT:
Respec
3810 Valley Commons Drive, Suite 4
Bozeman, MT 50718
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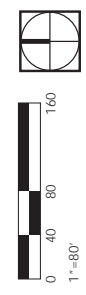
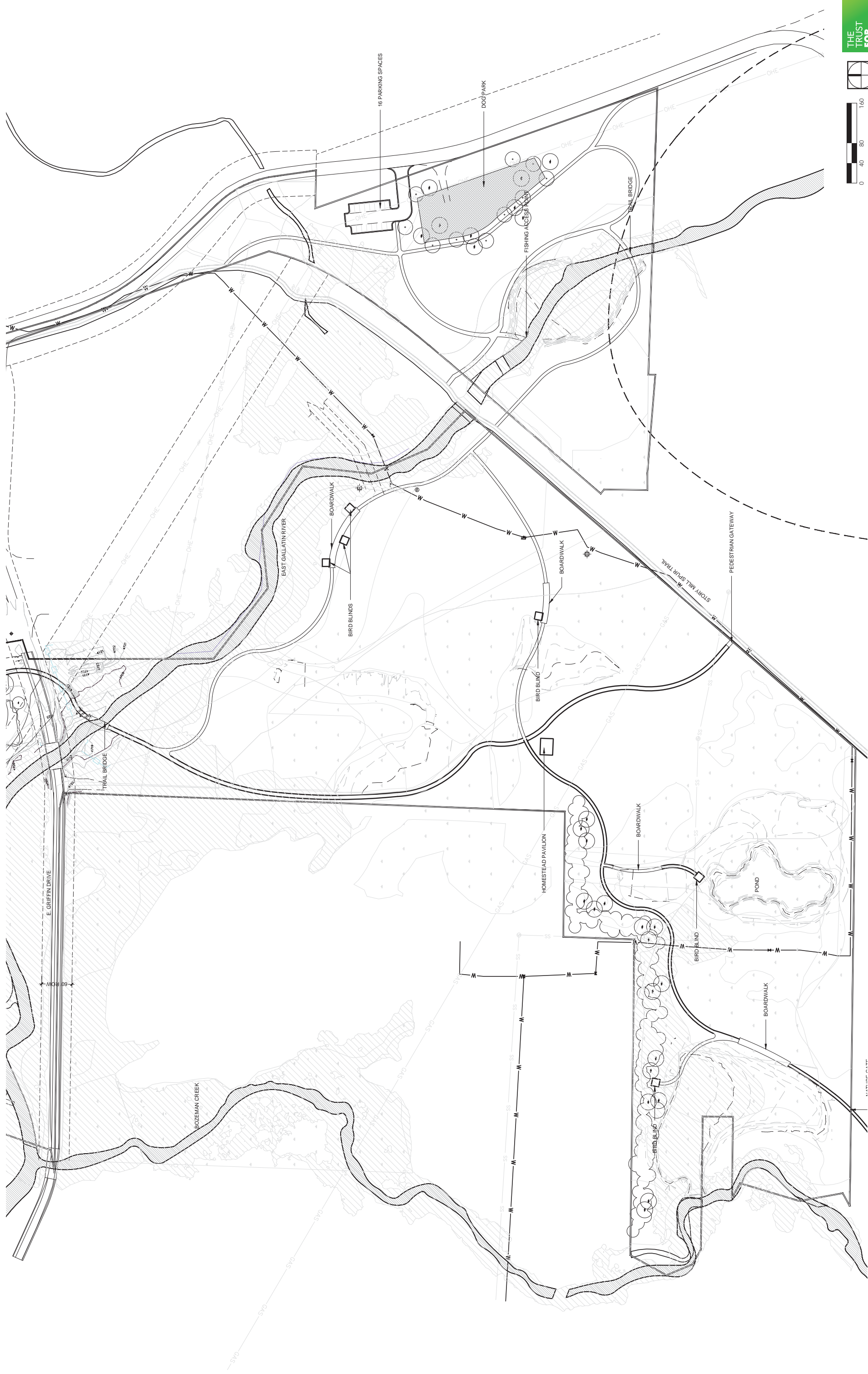
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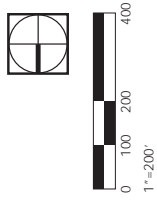
ILLUSTRATIVE PLAN



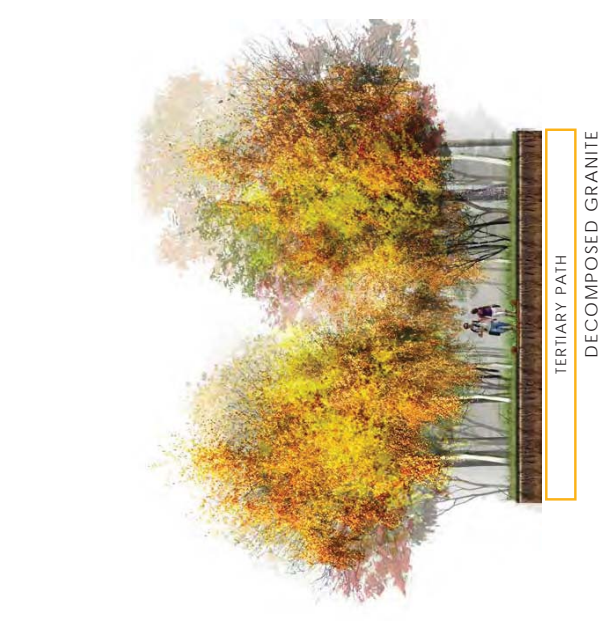
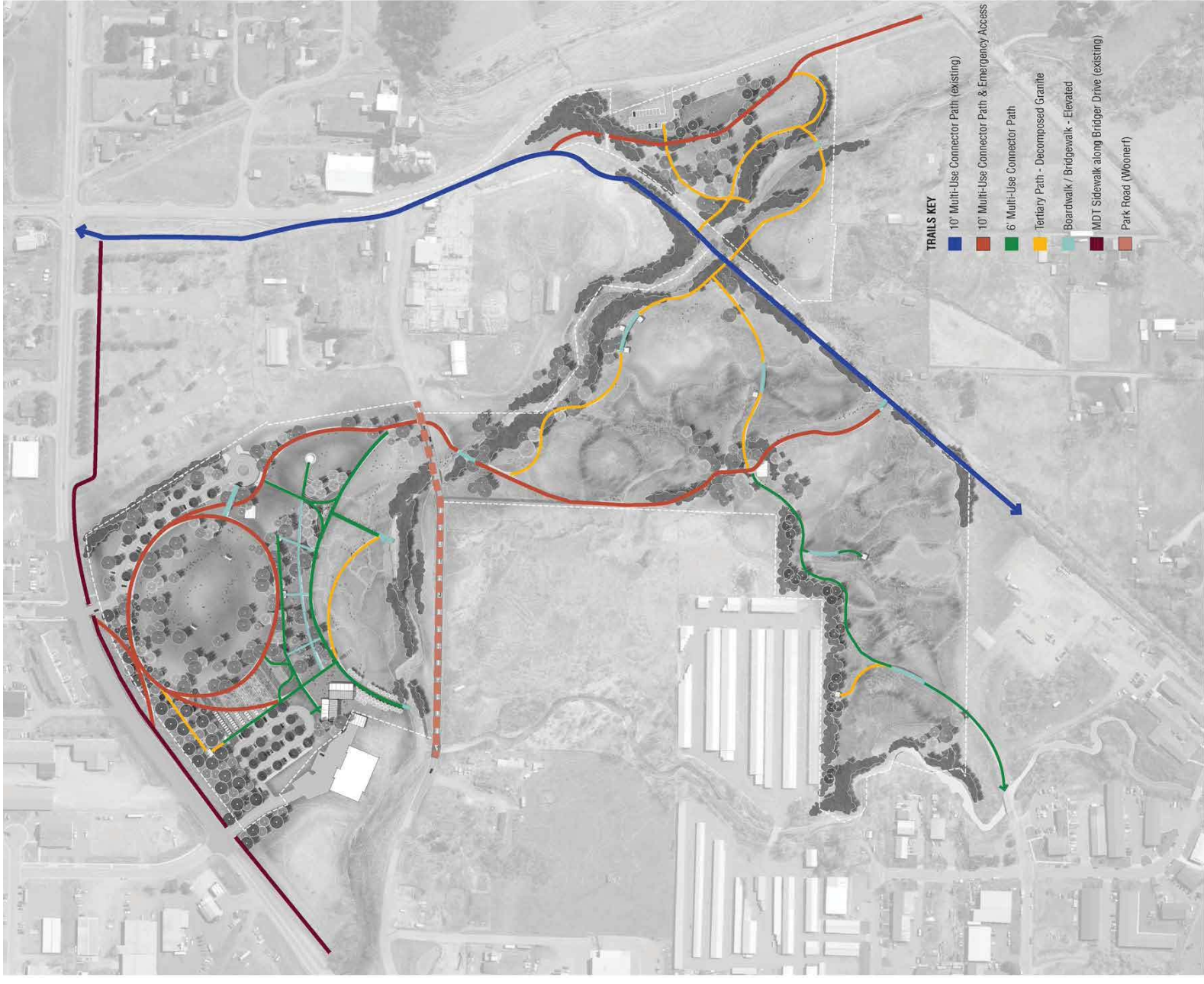
SITE PLAN - SOUTH PARCEL



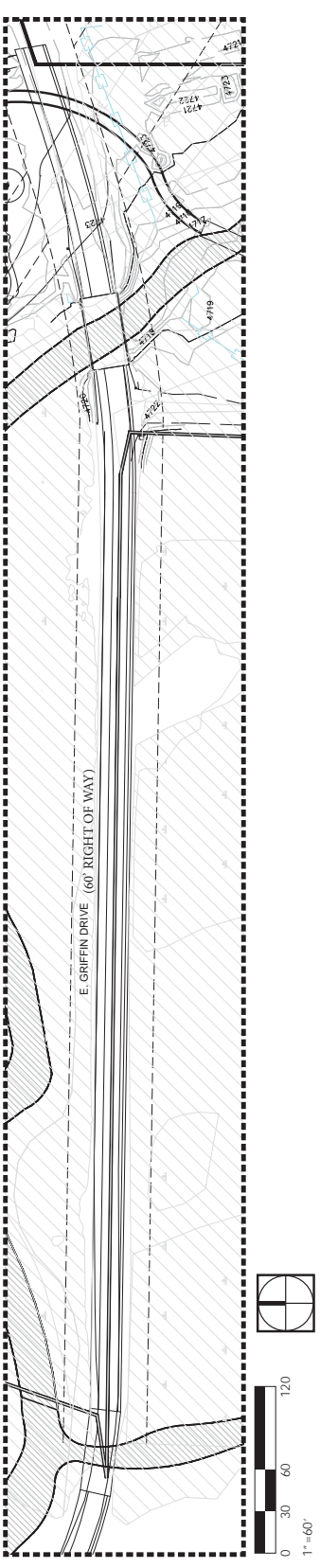
ILLUSTRATIVE PLAN



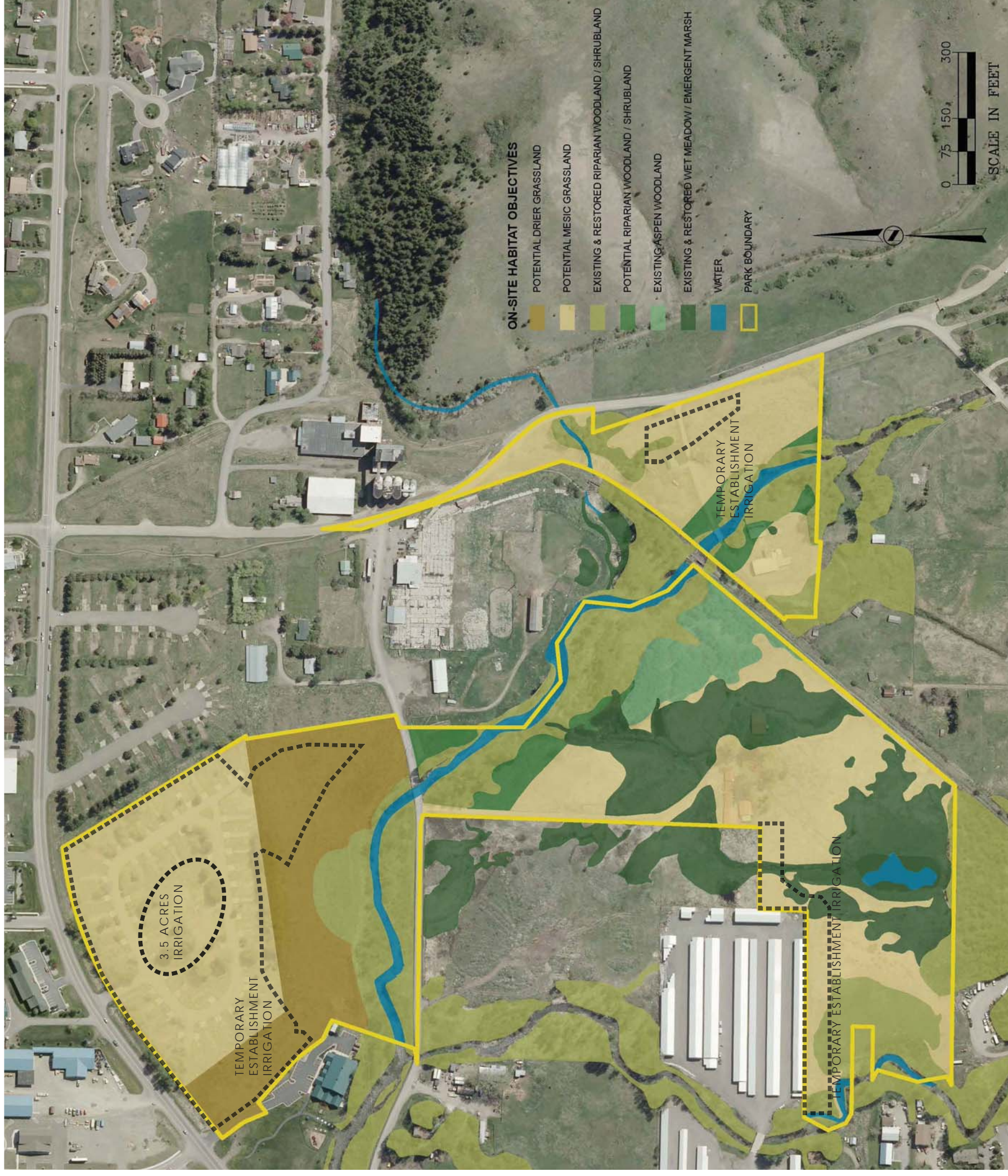
TRAIL DIAGRAM



PARK ROAD ("WOONERF")



HABITAT OBJECTIVES AND SUGGESTED SPECIES



DRYER GRASSLAND

- Shrubs**
 - Rocky Mountain maple
 - Thimbleleaf alder
 - Water birch
 - Black hawthorn
 - Redstart dogwood
 - Chokecherry
 - Skunkbush
 - Woods' rose
 - Pacific willow
 - Silver buffaloberry
 - Snowberry
- Trees**
 - Acer glabrum
 - Alnus incana
 - Betula occidentalis
 - Corylus douglasii
 - Cornus sericea
 - Prunus virginiana
 - Rhus trilobata
 - Rosa woodsii
 - Salix lucida
 - Shepherdia argentea
 - Symphoricarpos species

MESIC GRASSLAND

- Grasses**
 - DOMINANT**
 - Rough fescue
 - Idaho fescue
 - SECONDARY**
 - Western needlegrass
 - Richardson's needlegrass
 - Outgrass
 - Thickspike wheatgrass
 - Bain's wildrye
 - Prairie junegrass
 - Sandberg's bluegrass
 - Western wheatgrass
- Sedges**
 - Lidón sedge
- Forbs**
 - Arrowleaf balsamroot
 - Indian paintbrush
 - Little larkspur
 - Wild strawberry
 - Prairie gentian
 - Sticky geranium
 - Nine-leaf biscuitroot
 - Silky lupine
 - Crazyweed
 - Sulphur penstemon
 - Sticky cinquefoil
 - Prairie cinquefoil
- Shrubs (less than 10%)**
 - Shrubby cinquefoil
 - Common juniper
 - Woods' rose
 - Snowberry

WETLAND

- Grasses**
 - DOMINANT**
 - Festuca campestris
 - Festuca idahoensis
 - SECONDARY**
 - Achnatherum occidentale
 - Achnatherum richardsonii
 - Danthonia species
 - Elymus lanceolatus
 - Leymus cinereus
 - Koeleria macrantha
 - Poa secunda
 - Pascopyrum smithii
- Sedges**
 - Common sedge
- Forbs**
 - Achillea millefolium
 - Bisamurba sagittata
 - Castilleja species
 - Delphinium bicolor
 - Fragaria virginiana
 - Gentiana affinis
 - Geranium viscosissimum
 - Lomatium triternatum
 - Lupinus sericeus
 - Oxytropis species
 - Penstemon confertus
 - Potentilla glandulosa
 - Potentilla gracilis
- Shrubs (less than 10%)**
 - Diosphora fruticosa
 - Atriplex commutis
 - Common juniper
 - Rosa woodsii
 - Symphoricarpos species

WETLAND

- Grasses**
 - DOMINANT**
 - Bluebunch wheatgrass
 - Idaho fescue
 - SECONDARY**
 - Indian ricegrass
 - Timber oatgrass
 - Prairie junegrass
 - Sandberg's bluegrass
- Sedges**
 - Threadleaf sedge
 - Geyer's sedge
- Forbs**
 - Achillea millefolium
 - Anemone microphylla
 - Arnica serotina
 - Artemisia frigida
 - Artemisia ludoviciana
 - Eriogonum species
 - Eriogonum species
 - Gallardia aristata
 - Gallium boreale
 - Geum triflorum
 - Huechera species
 - Liatris punctata
 - Lithospermum nuderale
 - Lomatium macrocarpum
 - Lupinus sericeus
 - Lupinus argenteus
 - Lupinus sericeus
 - Oxytropis species
 - Oxytropis fragilis
 - Penstemon eriandrus
 - Phlox alysifolia
 - Phlox hoodii
 - Potentilla gracilis
 - Pulsatilla patens
 - Solidago missouriensis

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Scientific Name	Common Name	% of Mix	lbs PLS/ Acre	Cost per PLS Pound	Estimated Cost/Acre
1. <i>Agropyron lanceolatus</i>	thickspike wheatgrass	27.78%	4	\$8.00	\$32.00
2. <i>Agropyron smithii</i>	western wheatgrass	27.78%	4	\$7.50	\$30.00
3. <i>Agropyron trachyaulum</i>	slender wheatgrass	13.89%	2	\$5.00	\$10.00
4. <i>Deschampsia cespitosa</i>	tuffed hairgrass	6.25%	0.9	\$18.50	\$7.40
5. <i>Elymus canadensis</i>	Canada wildrye	13.89%	2	\$12.00	\$24.00
6. <i>Elymus glaucus</i>	blue wildrye	10.42%	1.5	\$9.00	\$13.50
TOTAL		100%	14.4	--	\$126.15

Table Notes: Riparian Seed Mix. Costs are preliminary and are subject to change based on availability.

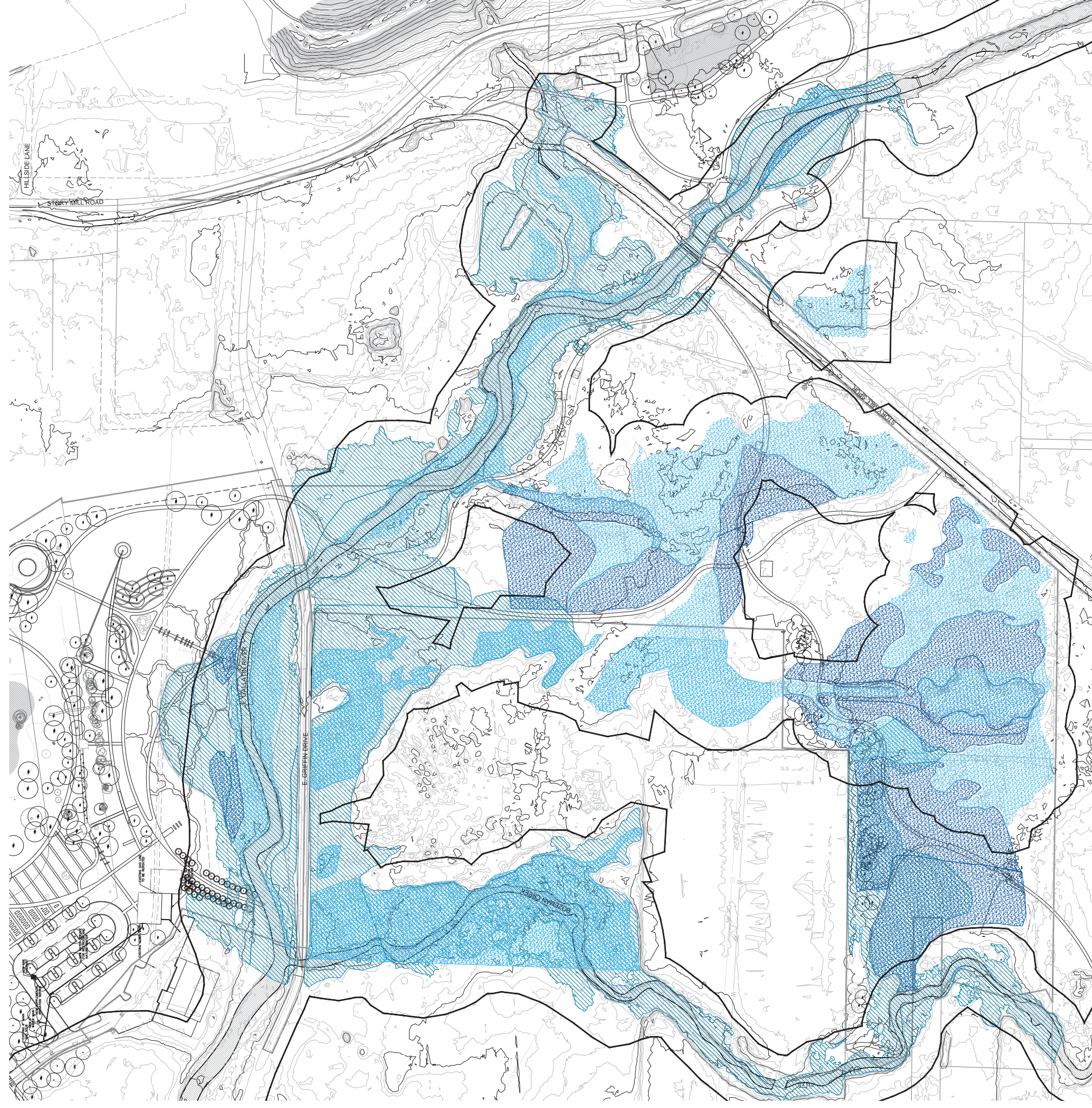
Scientific Name	Common Name	% of Mix	lbs PLS/ Acre	Cost per PLS Pound	Estimated Cost/Acre
1. <i>Beckmannia syzigachne</i>	American slough grass	17.85%	1	\$25.00	\$25.00
2. <i>Carex nebrascensis</i>	Nebraska sedge	17.85%	1	\$85.00	\$85.00
3. <i>Carex pregracilis</i>	clustered field sedge	7.14%	0.4	\$95.00	\$38.00
4. <i>Deschampsia cespitosa</i>	tuffed hairgrass	7.14%	0.4	\$18.50	\$7.40
5. <i>Eriochloa polystriata</i>	common spikerush	17.85%	1	\$150.00	\$150.00
6. <i>Glyceria grandis</i>	reed mannagrass	7.14%	0.4	\$90.00	\$36.00
7. <i>Juncus balticus</i>	Baltic rush	3.57%	0.2	\$160.00	\$30.00
8. <i>Scirpus acutus</i>	hard-stem bulrush	17.85%	1	\$60.00	\$60.00
9. <i>Scirpus microcarpus</i>	small-fruited bulrush	3.57%	0.2	\$105.00	\$21.00
TOTAL		100%	5.6	--	\$492.00

Table Notes: Wetland Seed Mix. Costs are preliminary and are subject to change based on availability.

Scientific Name	Common Name	% of Mix	lbs PLS/ Acre	Cost per PLS Pound	Estimated Cost/Acre
1. <i>Stipa viridula</i>	green needlegrass	11.76%	2	\$7.75	\$15.50
2. <i>Stipa comata</i>	needle-n-head	5.88%	1	\$70.00	\$70.00
3. <i>Elymus canadensis</i>	Canada wildrye	11.76%	2	\$12.00	\$24.00
4. <i>Elymus glaucus</i>	blue wildrye	8.82%	1.5	\$9.00	\$13.50
5. <i>Agropyron lanceolatus</i>	thickspike wheatgrass	11.76%	2	\$8.00	\$16.00
6. <i>Agropyron smithii</i>	western wheatgrass	11.76%	2	\$7.50	\$15.00
7. <i>Agropyron (Elymus) trachyaulum</i>	slender wheatgrass	5.88%	1	\$5.00	\$5.00
8. <i>Bromus marginatus</i>	mountain brome	23.53%	4	\$6.50	\$26.00
9. <i>Poa secunda</i>	Sandberg's bluegrass	2.94%	0.5	\$9.00	\$4.50
10. <i>Oryzopsis hymenoides</i>	Indian ricegrass	5.88%	1	\$12.50	\$12.50
TOTAL		100%	17	--	\$202.00

Table Notes: Upland Seed Mix. Costs are preliminary and are subject to change based on availability.

WETLAND MAP



REGULATORY SIGNAGE



WAYFINDING AND INTERPRETIVE SIGNAGE



PHASING STRATEGY



PHASE 1



FUTURE PHASE