

RACETRACK WETLAND RESTORATION PROJECT

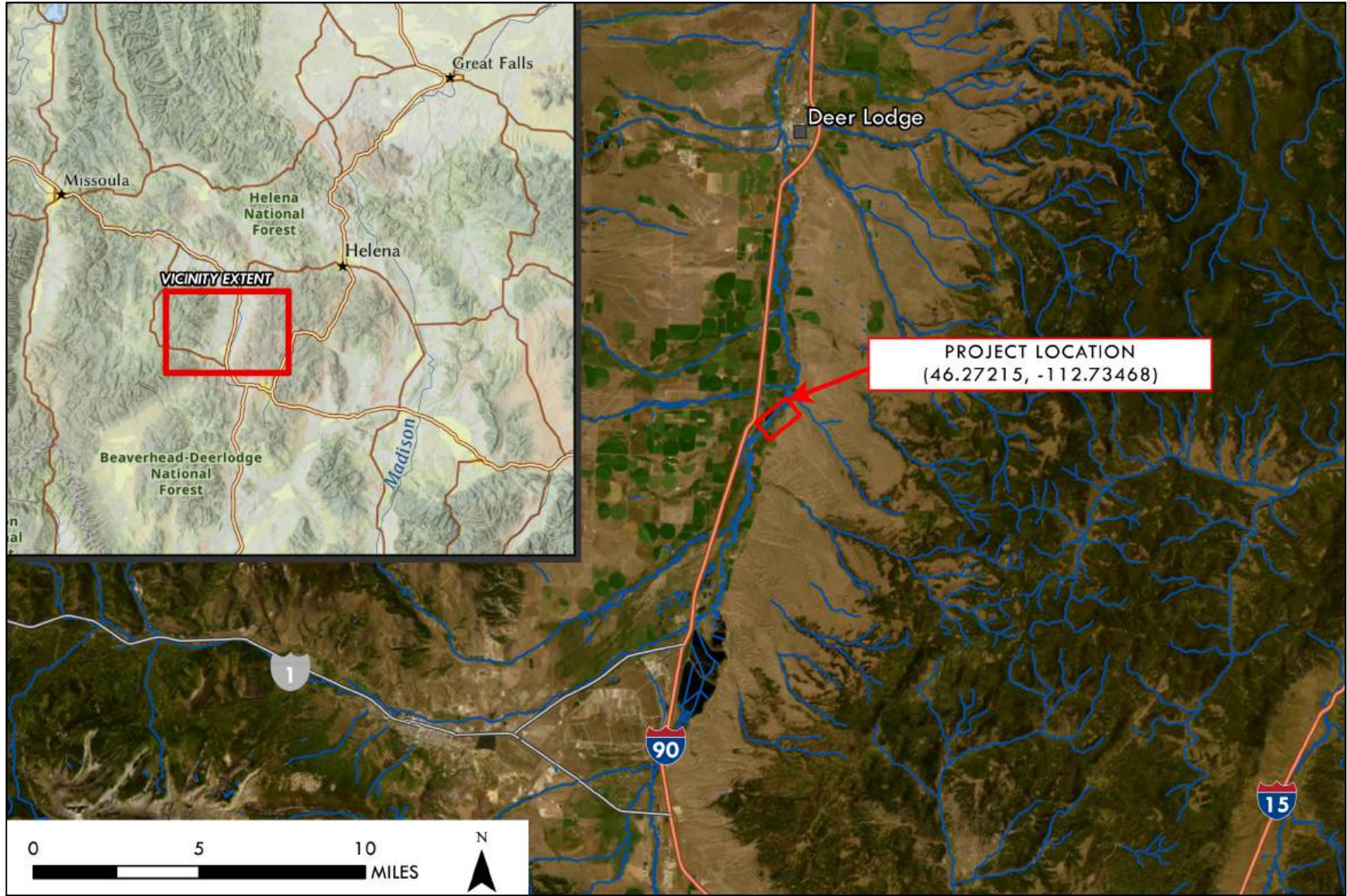
POWELL COUNTY, MONTANA

PROJECT SPONSOR:

MONTANA NATURAL RESOURCE DAMAGE PROGRAM
1720 9TH AVENUE
PO BOX 201425
HELENA, MONTANA 59620-1425

PREPARED BY:

geum Environmental Consulting
GEUM ENVIRONMENTAL CONSULTING INC.
307 STATE ST
PO BOX 1956
HAMILTON, MONTANA 59840



VICINITY OVERVIEW

PROJECT DESCRIPTION

THE PROJECT SITE IS ADJACENT TO THE CLARK FORK RIVER OPERABLE UNIT REACH A PHASE 7 REMEDIATION SITE (PHASE 7) NEAR RACETRACK, MONTANA. TO CONSTRUCT PHASE 7, ALLUVIUM BORROW WAS EXCAVATED FROM THE WETLAND AREA, LEAVING LARGE BORROW PITS.. THE GOAL OF THIS PROJECT IS TO RESTORE THE PHASE 7 ALLUVIUM BORROW PITS TO CREATE A DIVERSE WETLAND COMPLEX WITH A WIDE RANGE OF WETLAND HABITAT TYPES.

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GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF NECESSARY, ADJUSTMENTS TO THE DRAWINGS WILL BE MADE AS REQUESTED BY NRDP AND THE PROJECT DESIGNER.
2. QUANTITIES ARE ESTIMATED. THE CONTRACTOR SHALL CONFIRM QUANTITIES SHOWN ON THE DRAWINGS AND FOR OWNER-SUPPLIED MATERIALS.
3. DIMENSIONS ARE GIVEN IN FEET AND TENTHS OF A FOOT.
4. EXCAVATION, TRENCHING, SHORING AND SHIELDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK. THESE DRAWINGS ARE NOT INTENDED TO PROVIDE MEANS OR METHODS OF CONSTRUCTION.



DATA SOURCES:
NAT GEO BASEMAP, ESRI
IMAGERY, NHD, MSDI
TRANSPORTATION

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FOR CONSTRUCTION

COVER SHEET

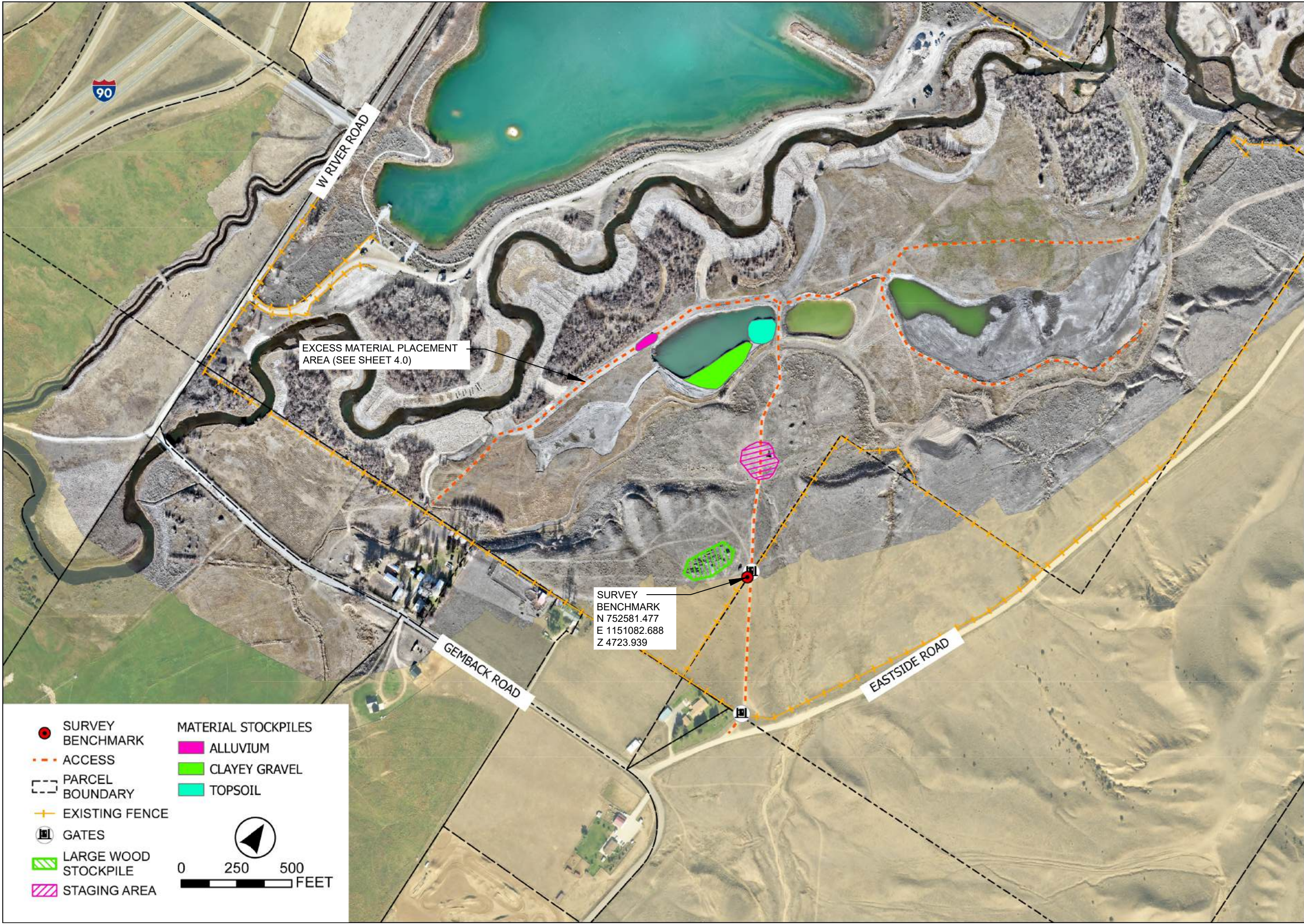
RACETRACK WETLAND RESTORATION PROJECT

POWELL COUNTY, MONTANA

DATUM: NAD83/NAVD88
PROJECTION: MT STATE PLANE,
INTL FT (FIPS2500)
DRAWN BY: NPLATT
DESIGNED BY: ASACRY
DATE: 2/4/2026

SHEET

1.0

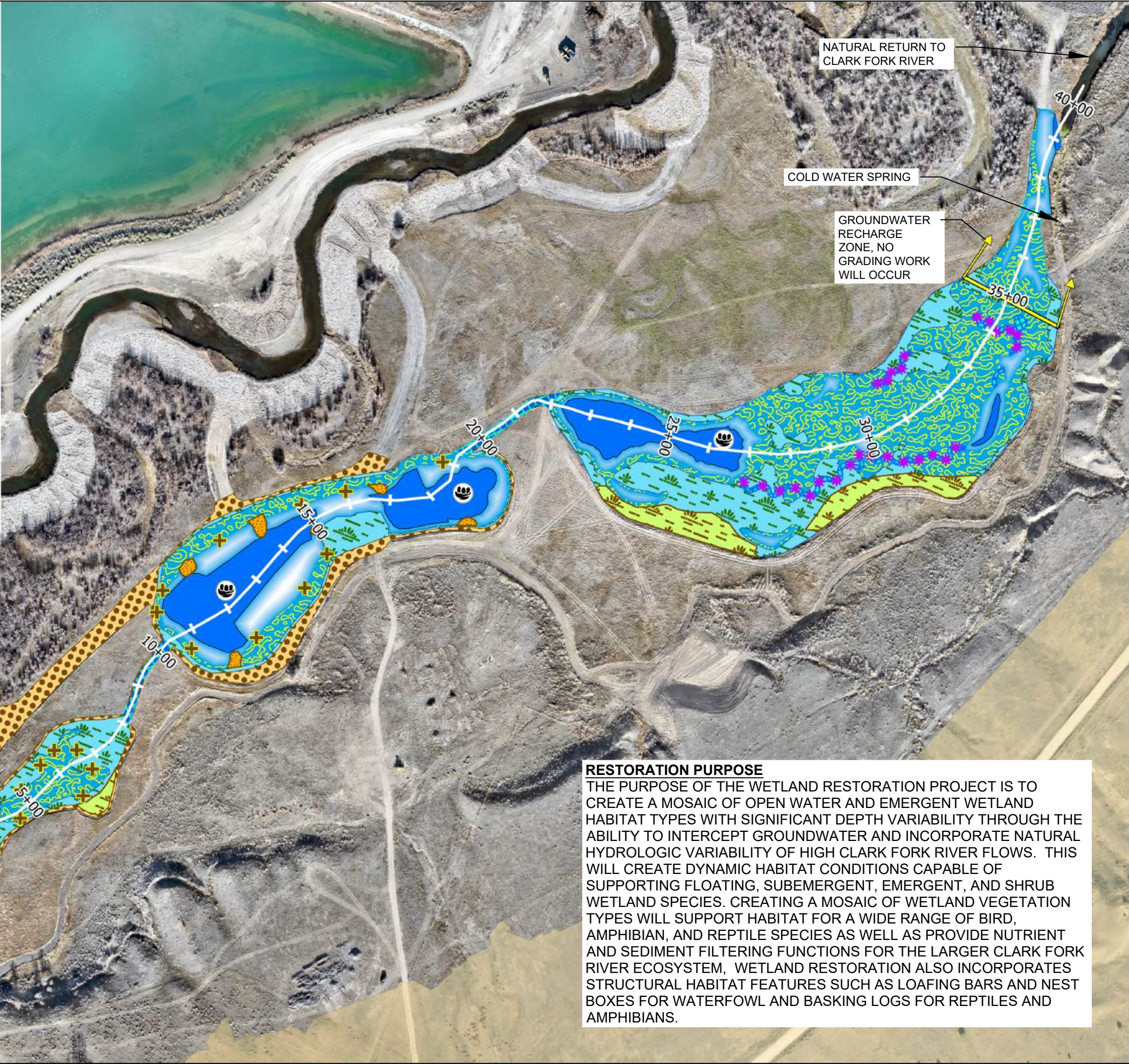


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SITE OVERVIEW

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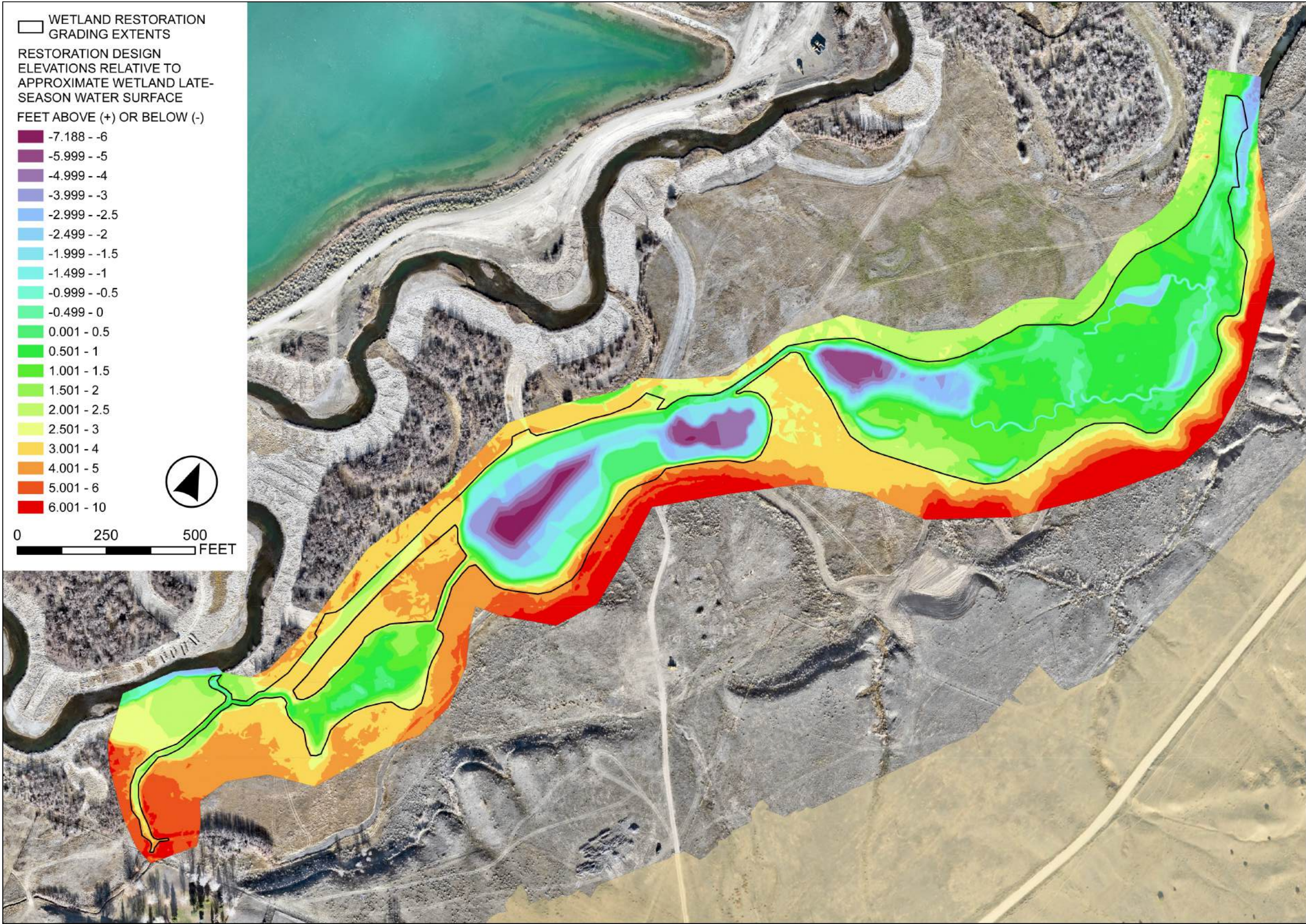
Restoration Overview

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SHEET 3.0



WETLAND RESTORATION
GRADING EXTENTS

RESTORATION DESIGN
ELEVATIONS RELATIVE TO
APPROXIMATE WETLAND LATE-
SEASON WATER SURFACE

FEET ABOVE (+) OR BELOW (-)

- 7.188 - -6
- 5.999 - -5
- 4.999 - -4
- 3.999 - -3
- 2.999 - -2.5
- 2.499 - -2
- 1.999 - -1.5
- 1.499 - -1
- 0.999 - -0.5
- 0.499 - 0
- 0.001 - 0.5
- 0.501 - 1
- 1.001 - 1.5
- 1.501 - 2
- 2.001 - 2.5
- 2.501 - 3
- 3.001 - 4
- 4.001 - 5
- 5.001 - 6
- 6.001 - 10



0 250 500
FEET



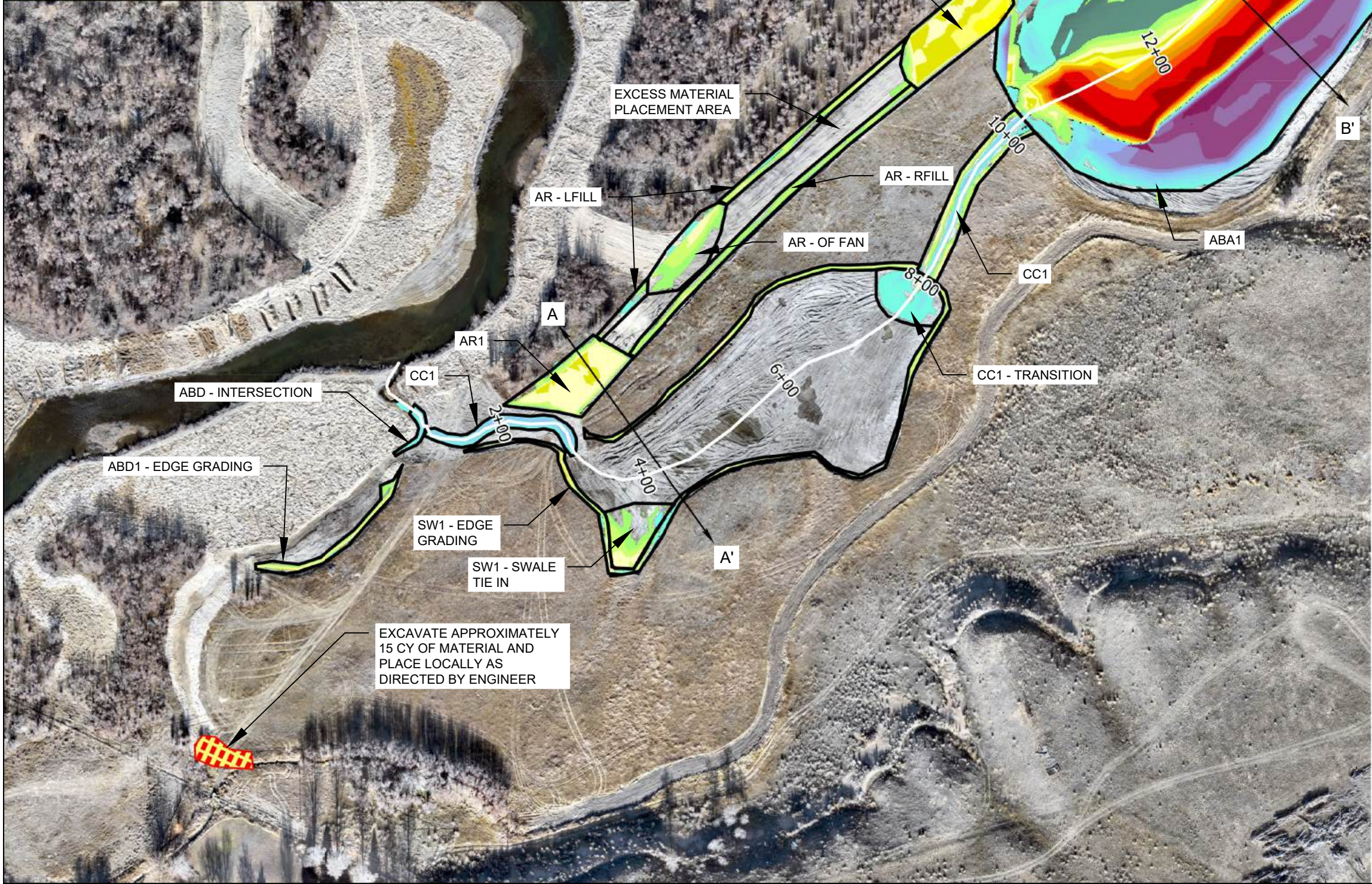
DATA SOURCES:
GEUM SURVEY DATA, BROWN
SURVEY DATA, USGS 3DEP
LIDAR, GEUM UAV IMAGERY
11/25, NAIP 2021 IMAGERY

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RESTORATION RELATIVE ELEVATIONS

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WETLAND RESTORATION GRADING EXTENTS

CROSS SECTIONS - SEE SHEET 4.2

CUT AND/OR FILL PLACEMENT OUTSIDE OF GRADING EXTENTS

CUT (-) AND FILL (+) DEPTHS FEET

	-5.8 TO -5.0
	-5.0 TO -4.0
	-4.0 TO -3.0
	-3.0 TO -2.5
	-2.5 TO -2.0
	-2.0 TO -1.5
	-1.5 TO -1.0
	-1.0 TO -0.5
	-0.5 TO -0.1
	-0.1 TO 0.1
	0.1 TO 0.5
	0.5 TO 1.0
	1.0 TO 1.5
	1.5 TO 2.0
	2.0 TO 2.5
	2.5 TO 3.0
	3.0 TO 4.0
	4.0 TO 5.0
	5.0 TO 6.0
	6.0 TO 7.0
	7.0 TO 8.6

0 100 200 FEET

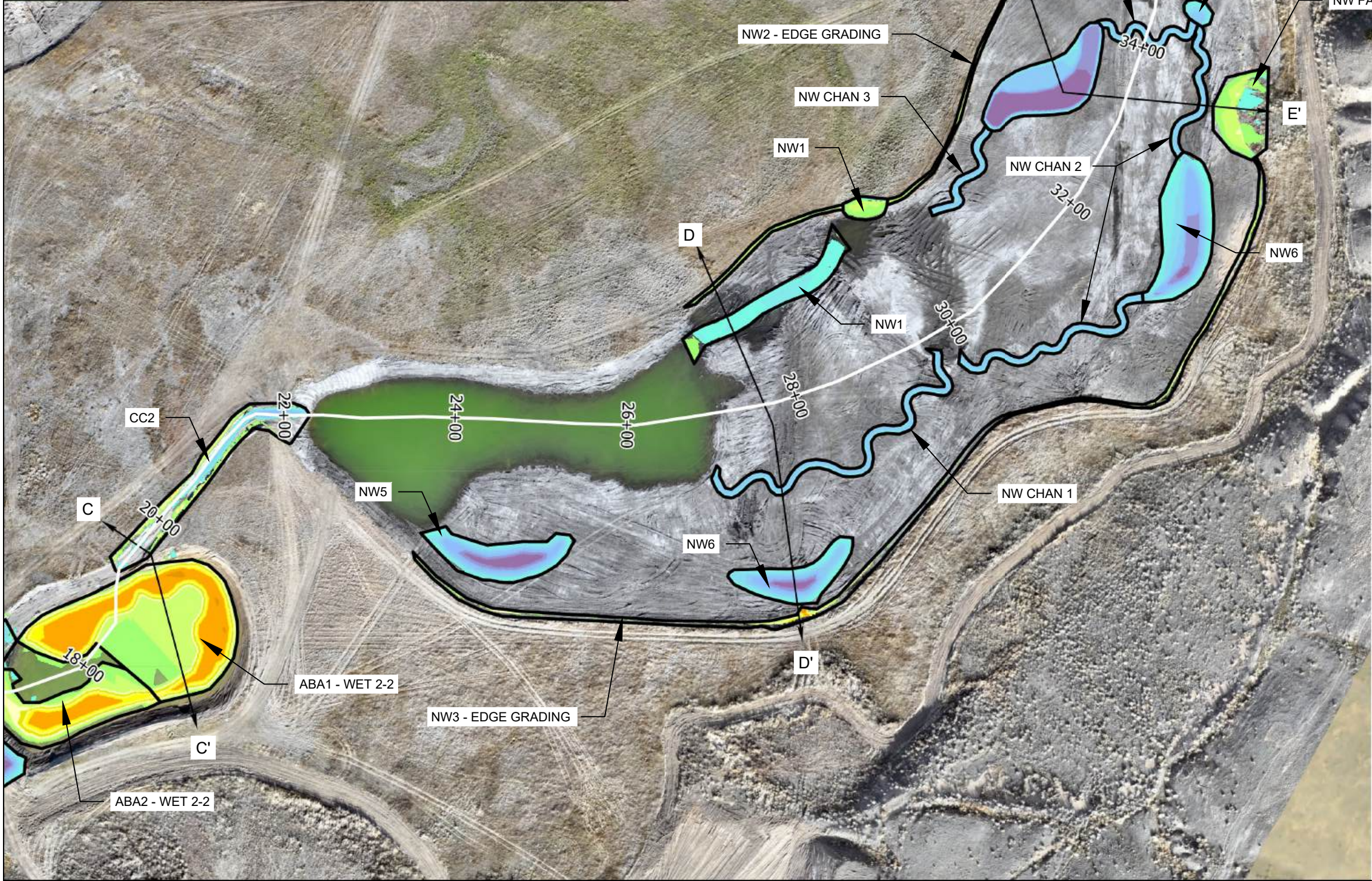
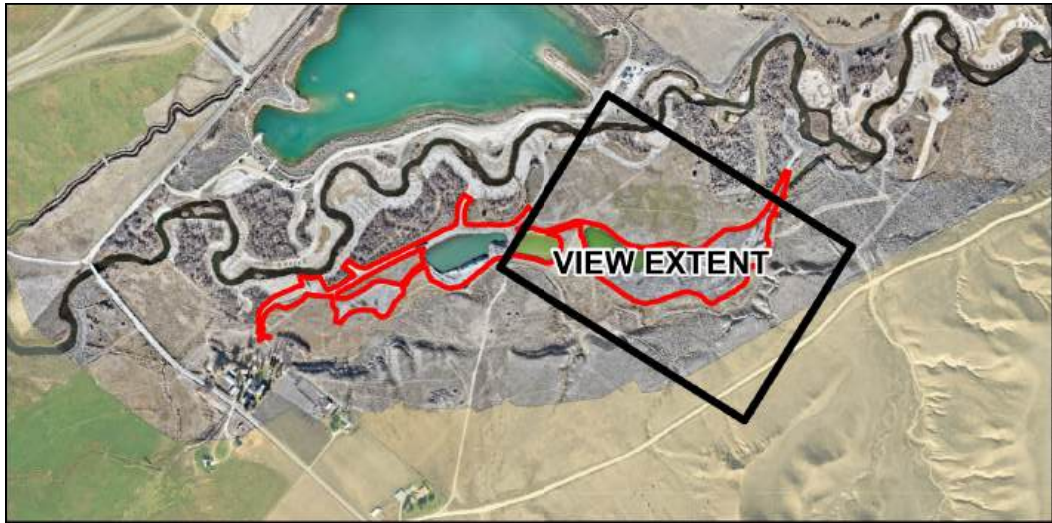
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SURVEY DATA, USGS 3DEP
LIDAR, GEUM UAV IMAGERY,
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GRADING PLAN - UPPER

RACETRACK WETLAND RESTORATION PROJECT
POWELL COUNTY, MONTANA

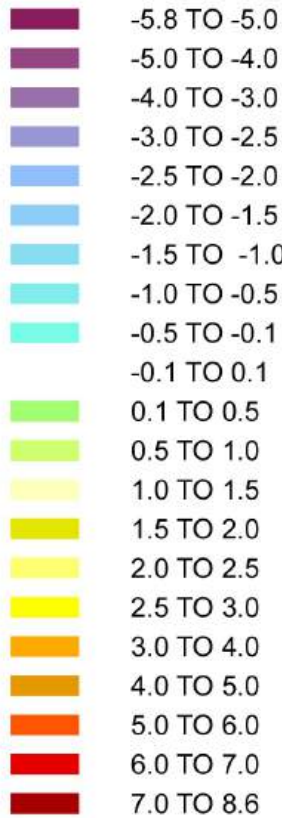
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WETLAND RESTORATION GRADING EXTENTS
 CROSS SECTIONS - SEE SHEET 4.2

CUT AND/OR FILL PLACEMENT OUTSIDE OF GRADING EXTENTS

CUT (-) AND FILL (+) DEPTHS
FEET

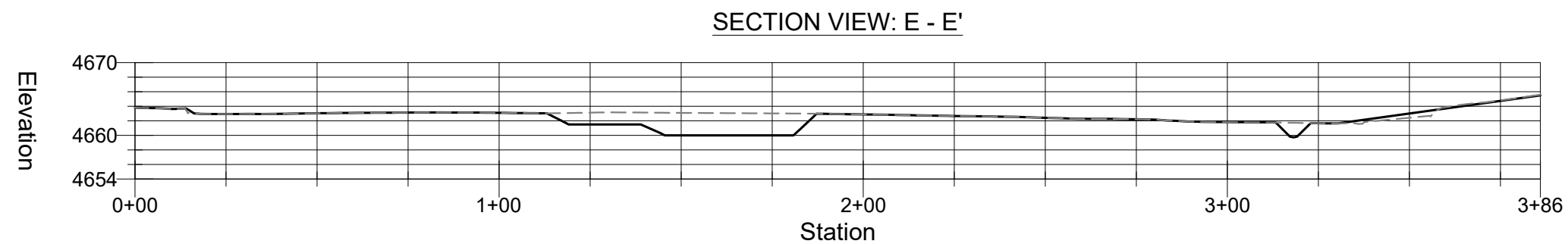
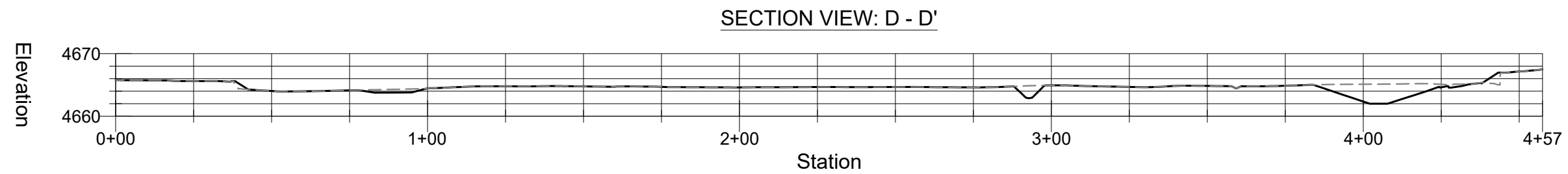
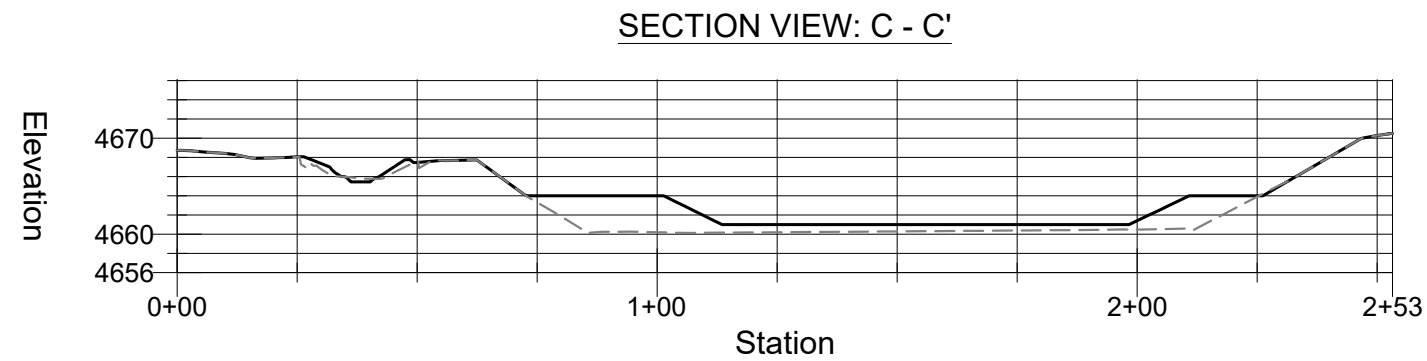
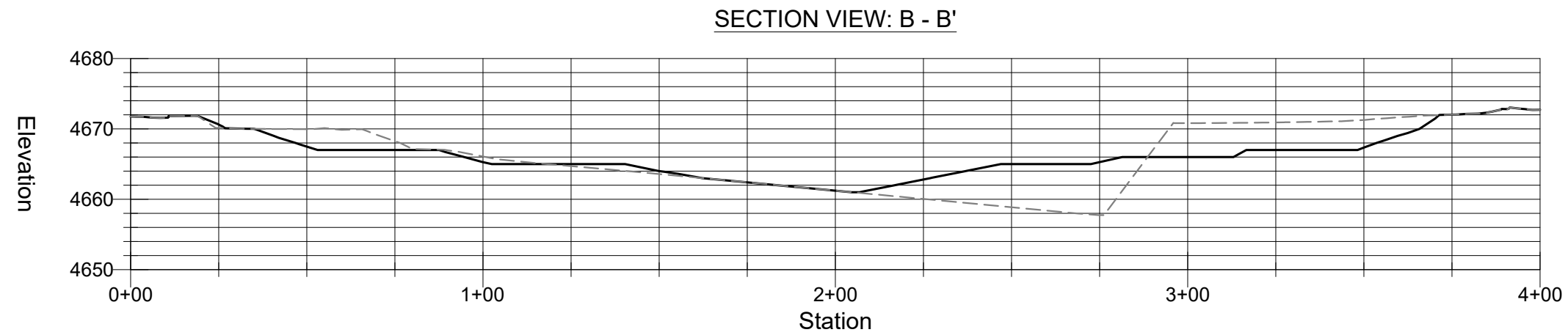
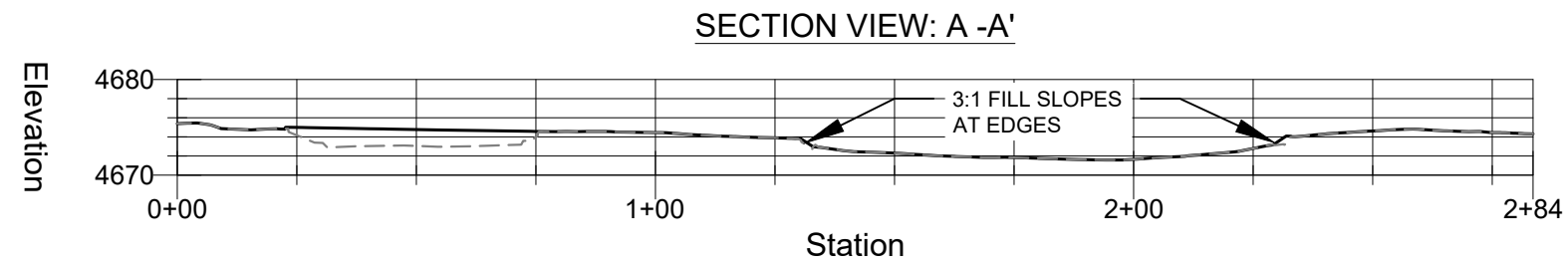


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GRADING PLAN - LOWER

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--- EXISTING GROUND
— PROPOSED CONDITIONS

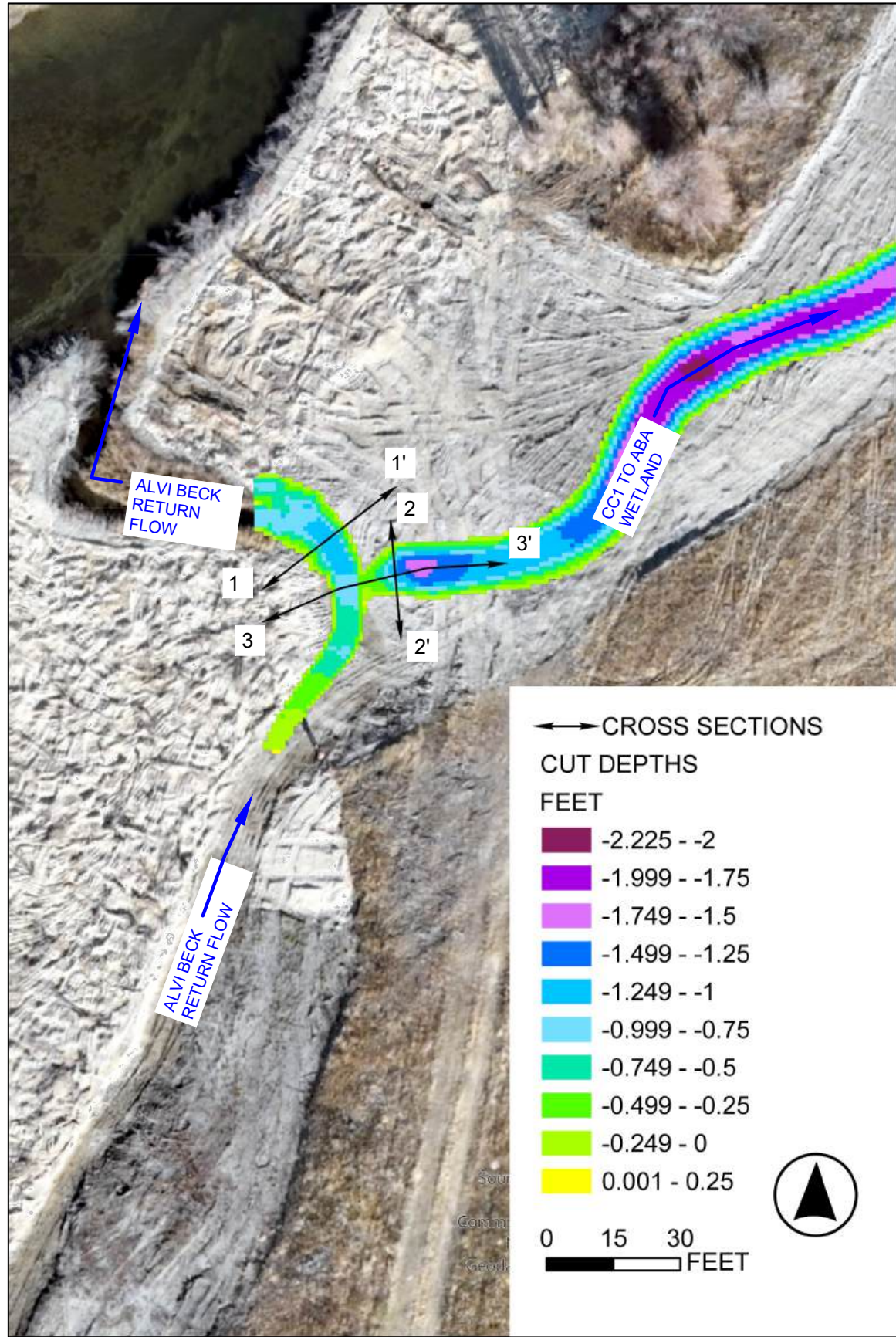
DATA SOURCES:

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FOR CONSTRUCTION

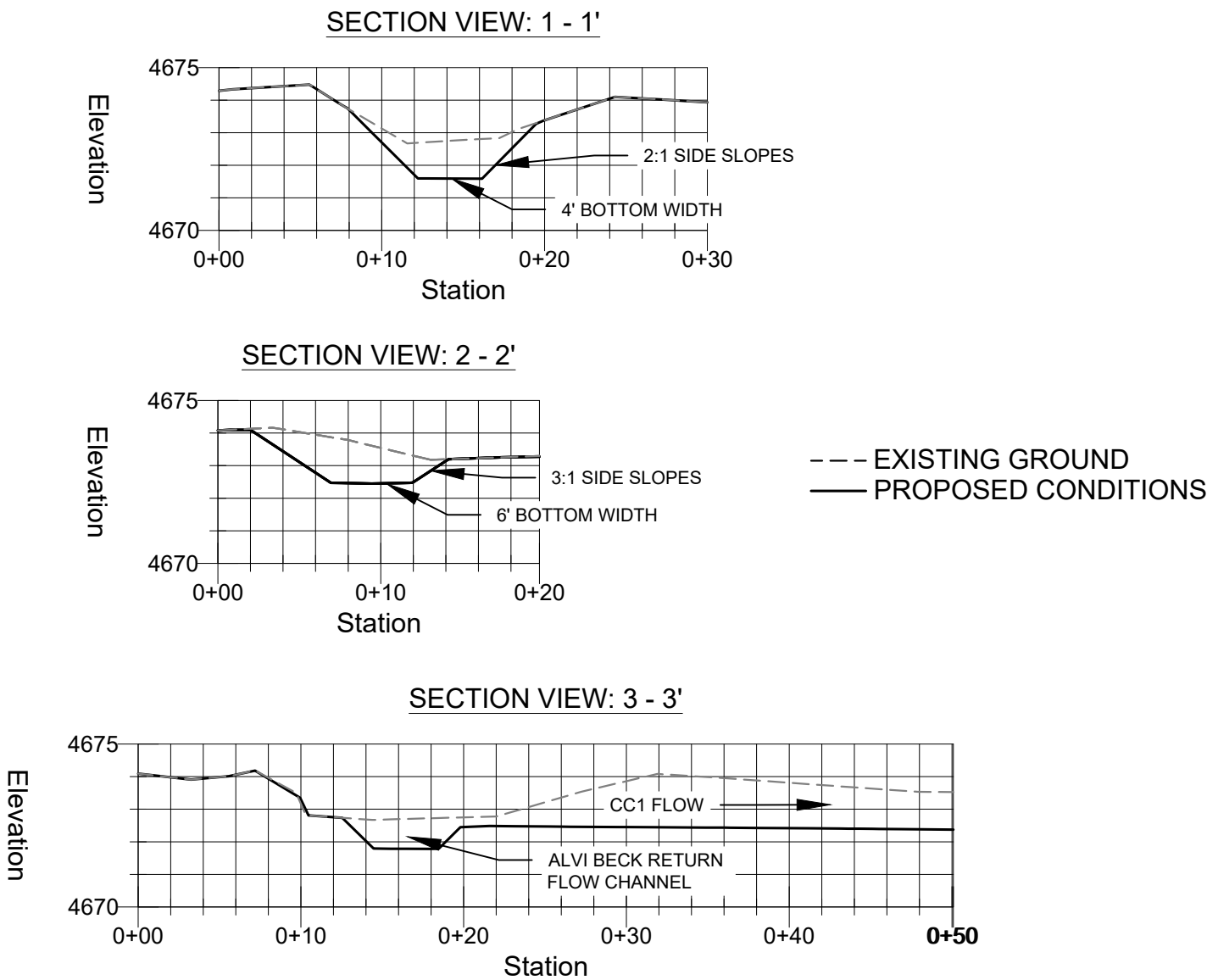
**GRADING PLAN - CROSS
SECTIONS**

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ALVI BECK RETURN FLOW AREA



WORK DESCRIPTION
THIS SHEET DETAILS GRADING WORK WHERE THE FORMER ALVI BECK DITCH RETURNS FLOW TO THE CLARK FORK RIVER. GRADING IN THIS AREA ENSURES THAT LATE SEASON RETURN FLOWS ENTER THE CLARK FORK RIVER AND DO NOT ENTER THE RESTORATION WETLAND AREA. DURING PERIODS OF HIGH FLOWS IN THE CLARK FORK RIVER (APPROXIMATELY 0.5 FEET BELOW THE CONSTRUCTED BANK ELEVATION), RIVER FLOWS WILL BACKWATER INTO THE FORMER ALVI BECK DITCH APPROXIMATELY 120 FT AT WHICH POINT RIVER FLOWS WILL ENTER THE WETLAND CONNECTOR CHANNEL INTO THE RESTORATION WETLAND AREA. REFER TO SHEET 6.0 FOR EXCAVATION VOLUMES ASSOCIATED WITH EACH AREA.

VOLUME AND CUT/FILL MATERIAL SUMMARY TABLES

GRADING POLYGON	CUT/FILL	ESTIMATED VOLUME (CY)	TYPE MATERIAL GENERATED FROM CUT	TYPE OF FILL MATERIAL REQUIRED
ABA1	FILL	3081	-	CLAYEY GRAVEL AND/OR LOCAL EXCAVATION WITH TOP 6" TOPSOIL ABOVE CERTAIN ELEVATION
ABA2 - WET 2-1	FILL	1533	-	CLAYEY GRAVEL AND/OR LOCAL EXCAVATION WITH TOP 6" TOPSOIL ABOVE CERTAIN ELEVATION
ABA2 - WET 2-2	FILL	492	-	CLAYEY GRAVEL AND/OR LOCAL EXCAVATION WITH TOP 6" TOPSOIL ABOVE CERTAIN ELEVATION
ABD - INTERSECTION	CUT	13	ALLUVIUM/GRAVEL	-
ABD1 - EDGE GRADING	FILL	39	-	TOP 6" TOPSOIL
AR - LFILL	FILL	86	-	TOPSOIL OR CLAYEY GRAVEL
AR - OF FAN	FILL	52	-	TOP 6" TOPSOIL
AR - RFILL	FILL	60	-	TOPSOIL OR CLAYEY GRAVEL
AR1	FILL	240	-	CLAYEY GRAVEL WITH TOP 6" TOPSOIL
AR2	FILL	535	-	CLAYEY GRAVEL WITH TOP 6" TOPSOIL
CC1	CUT	119	ALLUVIUM/GRAVEL/TOPSOIL	-
CC2	CUT	15	ALLUVIUM/GRAVEL/TOPSOIL	-
CC2 TRANSITION	CUT	33	SOIL	-
CC3	CUT	25	ALLUVIUM/GRAVEL/TOPSOIL	-
NW CHAN 1	CUT	181	SOIL	-
NW CHAN 2	CUT	190	SOIL	-
NW CHAN 3	CUT	60	SOIL	-
NW CHAN 4	CUT	66	SOIL	-
NW CHAN OUTLET	CUT	29	SOIL	-
NW FAN	FILL	49	-	CLAYEY GRAVEL AND/OR TOPSOIL
NW1	CUT	63	SOIL	-
NW2	FILL	12	SOIL	-
NW2 - EDGE GRADING	FILL	39	SOIL	-
NW3 - EDGE GRADING	FILL	87	SOIL	-
NW4	CUT	752	SOIL	-
NW5	CUT	386	SOIL	-
NW6	CUT	258	SOIL	-
NW7	CUT	459	SOIL	-
SW - SWALE TIE IN	FILL	68	-	TOPSOIL
SW1 - EDGE GRADING	FILL	67	-	TOPSOIL
SW2 - EDGE GRADING	FILL	53	-	TOPSOIL
ALLUVIUM STOCKPILE	FILL	740	ALLUVIUM	-
CLAYEY GRAVEL STOCKPILE	FILL	5178	CLAYEY GRAVEL	-
TOPSOIL STOCKPILE	CUT	2986	TOPSOIL	-

CUT/FILL SOURCE	VOLUME(CY)
TOTAL GRADING SURFACE CUT	10410
TOTAL CUT WITH STOCKPILES	19314
TOTAL GRADING SURFACE FILL	14255
NET CUT*	5059

* APPROXIMATELY 20% OF ESTIMATED FILL VOLUME IS EXPECTED TO BE NEEDED TO BUILD GRADING SURFACE (2851 CY). REST OF EXCESS MATERIAL WILL BE PLACED IN EXCESS MATERIAL PLACEMENT AREA



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TRANSPORTATION

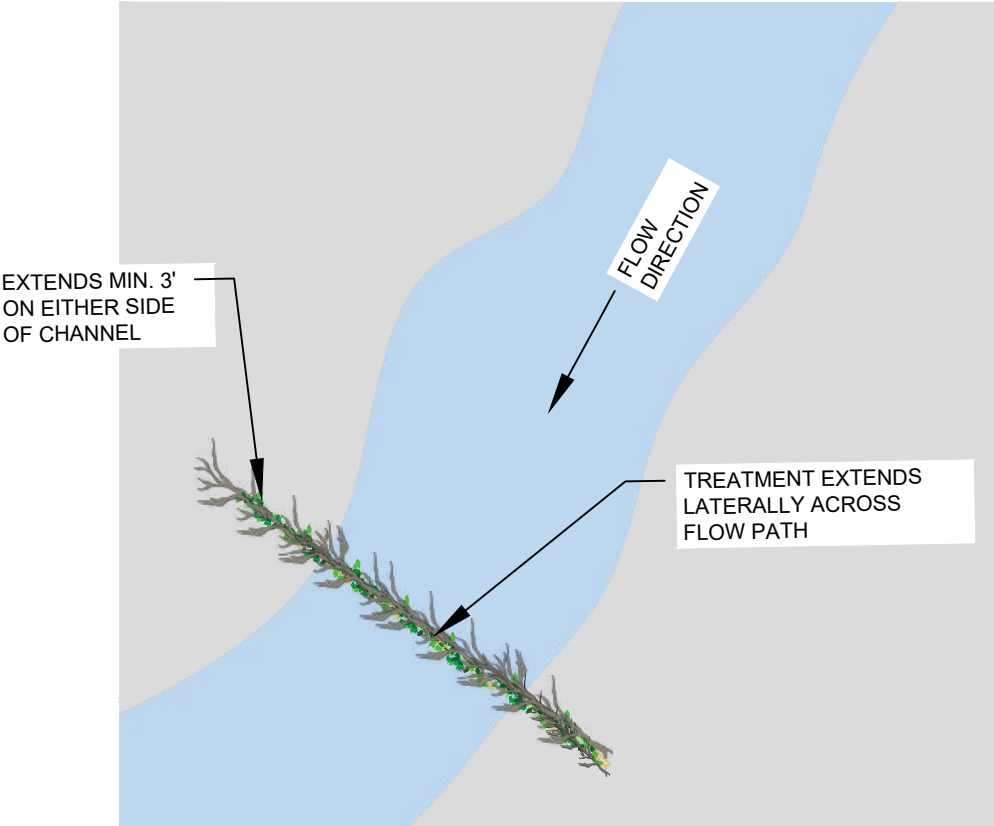
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GRADING VOLUME DETAILS

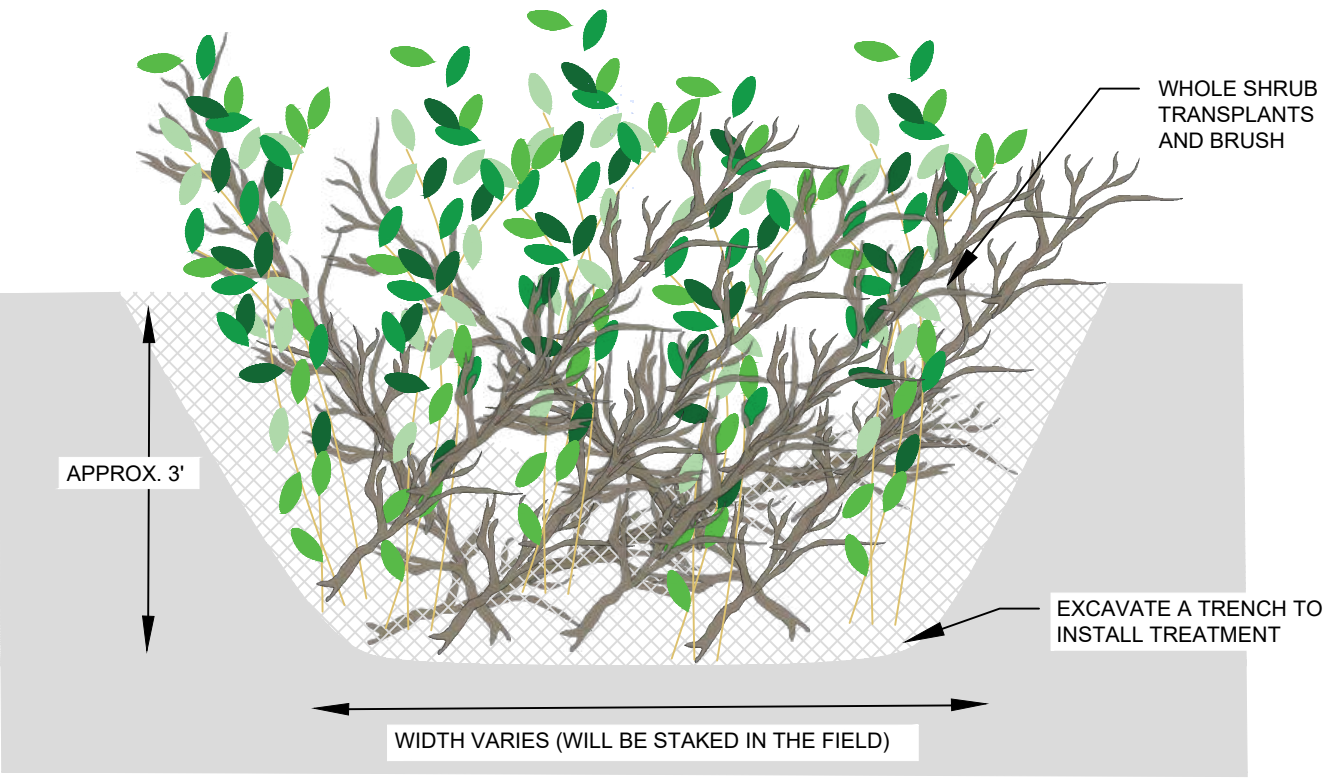
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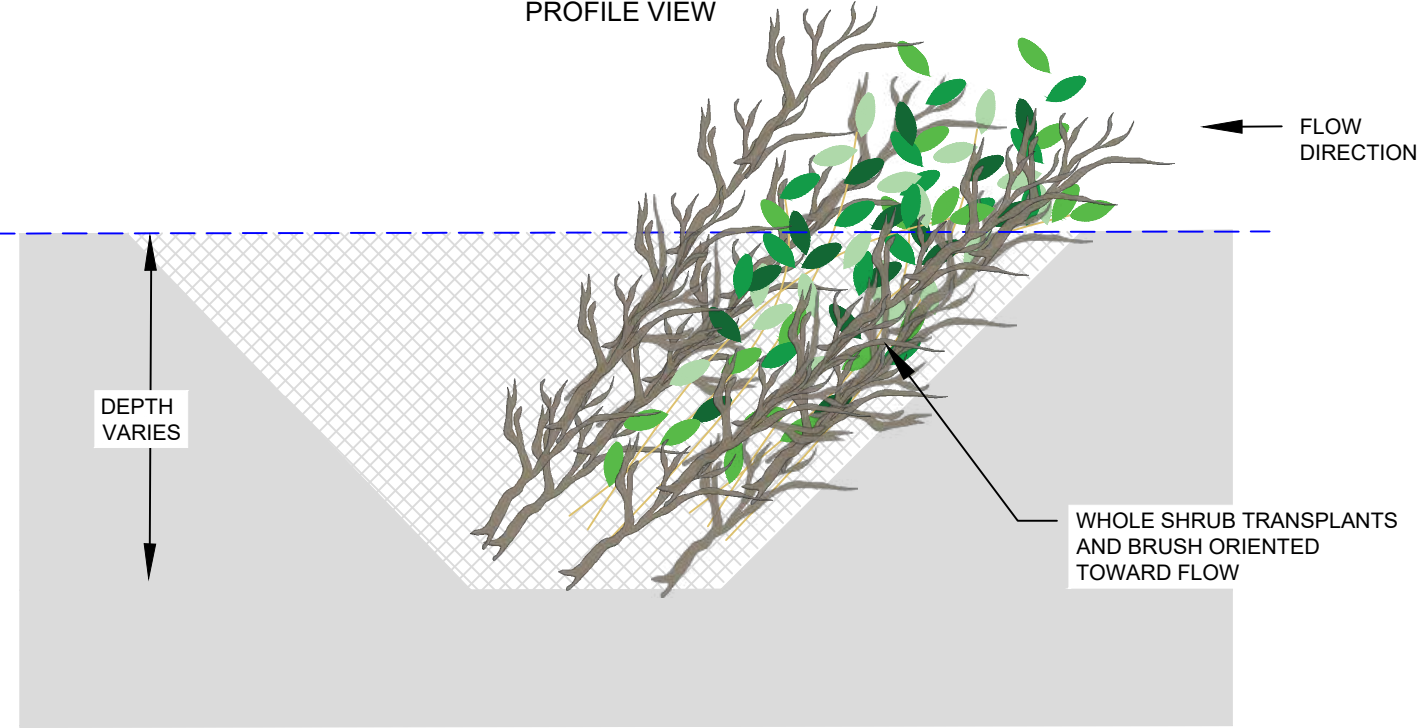
BRUSH CHECK DAM
PLAN VIEW



BRUSH CHECK DAM
SECTION VIEW



BRUSH CHECK DAM
PROFILE VIEW



WORK DESCRIPTION

THIS WORK INCLUDES INSTALLATION OF BRUSH CHECK STRUCTURES. THE INTENT OF THESE STRUCTURES IS TO PROVIDE ROUGHNESS TO RAISE WATER SURFACE LEVELS AND SPREAD FLOW IN HABITAT CHANNELS.

BRUSH CHECK DAM MATERIAL SCHEDULE		
ITEM	DIMENSIONS	ESTIMATED QUANTITY/LINEAR FOOT
BRUSH	<6" D, 6-10' L	0.5
WHOLE SHRUB TRANSPLANTS	6+’ L	0.2

BRUSH CHECK DAM TREATMENT

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SHEET
D.1

307 STATE ST.
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WETLAND HABITAT TYPES OVERVIEW TABLE

HABITAT TYPE	Elevation Criteria (Relative to late season water table)	Treatments	Species Mix	Descriptions
PERENNIAL OPEN WATER	< -2.0 ft	Nesting Structures	NA	This habitat should support year-round open water and is an important habitat component of 50:50 open water to emergent wetland habitat complex. Nesting structures will be installed in open water areas.
SEASONAL OPEN WATER OR SUB-EMERGENT	- 2.0 to 0 ft	Planting, Large Wood	Submergent Plant Mix	This habitat should support open water habitat of varying depths, with seasonal shifts in depths occurring each year. Seasonal open water is important habitat component of 50:50 open water to emergent wetland habitat complex. Submerged Aquatic Vegetation (SAV) is an important food source for waterfowl and waterbirds in the Upper Clark Fork Valley. SAV provides habitat for aquatic macroinvertebrates, a desired food source for a variety of waterfowl species. Large logs will be placed along the margins of this habitat type to provide basking areas for turtles, and cover for amphibians, and substrate for aquatic macroinvertebrates.
PERENNIALLY SATURATED EMERGENT WETLAND	0 ft to + 1 ft	Planting, Large Wood	Perennially Saturated Emergent Plant Mix	This habitat should rarely have standing open water but will be saturated at or near the surface year round. Perennially saturated areas are important habitat component of 50:50 open water to emergent wetland habitat complex. This habitat type should support Aquatic Emergent Vegetation (AEV). AEV provides necessary food and cover for newly hatched waterfowl offspring. It is essential for overwater nesting waterfowl and waterbirds and, helps remove nutrients from the water, and stabilizes deposited sediments. This habitat type will support dense, emergent wetland vegetation. Large logs will be placed along the margins of this habitat type to provide basking areas for turtles, and cover for amphibians, and substrate for aquatic macroinvertebrates.
SEASONALLY SATURATED EMERGENT WETLAND	+1.0 to +2.0 ft	Planting, Large Wood	Seasonally Saturated Emergent Plant Mix	This habitat should only be saturated during times of high groundwater, during times of low groundwater the water table is expected to be within 1 foot of the surface. This surface will be capable of supporting wetland vegetation. Seasonally saturated areas are an important habitat component of 50:50 open water to emergent wetland habitat complex. This habitat type is expected to also support emergent wetland vegetation but drier species than the Perennially Saturated Emergent Wetland, including wet grasses and forbs. Large logs will be placed along the margins of this habitat type to provide basking areas for turtles, and cover for amphibians, and substrate for aquatic macroinvertebrates.
SEASONALLY SATURATED SHRUB WETLAND	+1.0 to +2.0 ft	Planting	Seasonally Saturated Shrub Plant Mix	This habitat should only be saturated during times of high groundwater, during times of low groundwater the water table is expected to be within 1 foot of the surface. This surface will be capable of supporting wetland vegetation. Seasonally saturated areas are an important habitat component of 50:50 open water to emergent wetland habitat complex. This habitat type will be created through willow planting to promote native willow recruitment along the edges of the restoration area, providing habitat diversity and mimicking historical floodplain conditions.
HABITAT CHANNELS	2' below existing ground	Brush check dams	NA	Small, sinuous channels that will intercept groundwater and create habitat diversity within a larger wetland complex. Small brush check dams will be constructed in habitat channels to further diversify habitat and slow and spread groundwater.
LOAFING BAR	Transition from PERENNIAL OPEN WATER TO PERENNIALLY SATURATED WETLAND	Gravel placement	NA	Loafing bars are sand or gravel areas along open water shorelines that provide areas for waterfowl to preen and warm up during winter months.
WETLAND CONNECTOR SWALES	NA	Seeding	Transition Seed Mix	These swales will route high flows from the Clark Fork River into the wetland complex and between the three main wetland areas.
ALVI BECK RETURN FLOW CONNECTOR SWALE TO CLARK FORK RIVER	NA	Seeding	Transition Seed Mix	This is the former Alvi Beck ditch return to the CFR. The wetland restoration design allows late season return flows from this ditch to enter the Clark Fork River and not the wetland complex. At times of high flows in the Clark Fork River (approximately 0.5 feet below bankfull/top of bank elevation), river water will flow into the wetland complex.
PRESERVATION - GROUNDWATER RECHARGE ZONE	NA	None	NA	The northern end of the wetland supports deep organic soils and diverse soil stratigraphy. To protect the cold water spring at the northern return point of the wetland complex the northern most 500 feet of the wetland complex will not be disturbed to allow groundwater to flow through the existing soils and substrates before recharging into the spring and Clark Fork River return point.
TRANSITION	> +2.0	Seeding	Transition Seed Mix	This includes transition slopes from wetland complex to adjacent existing ground outside of the restoration area.

*Some information integrated from Montana Wetlands and Waterfowl *Opportunities for Wetland Habitat Enhancement and Management in the Upper Clark Fork Valley, Montana* (Nov 2023)



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WETLAND HABITAT TYPE
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SUBMERGENT PLANTING TABLES

HABITAT TYPE	SEASONAL OPEN WATER OR SUBMERGENT
TOTAL AREA (AC)	2.9
% OF AREA TO PLANT	30%
AREA TO PLANT (AC)	0.9
PLANT SPACING	3 FT ON CENTER
APPROXIMATE # OF PLANTS	4200

	SPECIES	% OF MIX	TOTAL
AQUATIC SUBMERGENTS			
water smartweed	<i>Polygonum amphibium</i>	20%	840
common water-milfoil	<i>Myriophyllum sibiricum</i>	20%	840
pondweed	<i>Potamogeton spp.</i>	20%	840
broad waterweed	<i>Elodea canadensis</i>	20%	840
common hornwort	<i>Ceratophyllum demersum</i>	20%	840
		100%	4200

PERENNIALLY SATURATED EMERGENT PLANTING TABLES

HABITAT TYPE	PERENNIALLY SATURATED EMERGENT
TOTAL AREA (AC)	6.3
% OF AREA TO PLANT	50%
AREA TO PLANT (AC)	3.2
PLANT SPACING	3 FT ON CENTER
APPROXIMATE # OF PLANTS	15330

	SPECIES	% OF MIX	TOTAL
SEDGES			
beaked sedge	<i>Carex utriculata</i>	30%	4600
copycat sedge	<i>Carex simulata</i>	15%	2300
water sedge	<i>Carex aquatilis</i>	15%	2300
RUSHES			
common spikerush	<i>Eleocharis palustris</i>	5%	770
BULRUSHES			
hardstem bulrush	<i>Schoenoplectus acutus</i>	10%	1530
small fruited bulrush	<i>Scirpus microcarpus</i>	10%	1530
softstem bulrush	<i>Schoenoplectus taebermontani</i>	10%	1530
FORBS			
seep monkey-flower	<i>Mimulus guttatus</i>	5%	770
		100%	15330

SEASONALLY SATURATED SHRUB PLANTING TABLES

HABITAT TYPE	SEASONALLY SATURATED SHRUB
TOTAL AREA (AC)	0.9
% OF AREA TO PLANT	50%
AREA TO PLANT (AC)	0.5
PLANT SPACING	3 ft on center
APPROXIMATE # OF PLANTS	2270

	SPECEIS	% OF MIX	TOTAL
WILLOWS			
Sandbar willow	<i>Salix exigua</i>	40%	910
Bebb's willow	<i>Salix bebbiana</i>	20%	450
Booth's willow	<i>Salix boothii</i>	20%	450
Drummond willow	<i>Salix drummondiana</i>	10%	230
Geyer's willow	<i>Salix geyeriana</i>	10%	230
		100%	2270

SEASONALLY SATURATED EMERGENT PLANTING TABLES

HABITAT TYPE	SEASONALLY SATURATED EMERGENT
TOTAL AREA (AC)	3.8
% OF AREA TO PLANT	50%
AREA TO PLANT (AC)	1.9
PLANT SPACING	3 FT ON CENTER
APPROXIMATE # OF PLANTS	9260

	SPECIES	% OF MIX	TOTAL
SEDGES			
water sedge	<i>Carex aquatilis</i>	8%	740
small wing sedge	<i>Carex microptera</i>	8%	740
Nebraska sedge	<i>Carex nebrascensis</i>	10%	930
beaked sedge	<i>Carex utriculata</i>	10%	930
wooly sedge	<i>Carex pellita</i>	10%	930
meadow sedge	<i>Carex praegracilus</i>	5%	460
copycat sedge	<i>Carex simulata</i>	5%	460
RUSHES			
arctic rush	<i>Juncus arcticus</i>	5%	460
swordleaf rush	<i>Juncus ensifolius</i>	5%	460
slender rush	<i>Juncus tenuis</i>	5%	460
Torrey's rush	<i>juncus torreyi</i>	5%	460
WET GRASSES			
American sloughgrass	<i>Beckmannia syzigachne</i>	4%	370
blue joint reedgrass	<i>Calamagrostis canadensis</i>	4%	370
tufted hairgrass	<i>Deschampsia cespitosa</i>	2%	190
American mannagrass	<i>Glyceria grandis</i>	5%	460
fowl mannagrass	<i>Glyceria striata</i>	5%	460
FORBS			
wild mint	<i>Mentha arvensis</i>	2%	190
Rocky Mountain iris	<i>Iris missouriensis</i>	2%	190
		100%	9260

TRANSITION SEED MIX TABLES

HABITAT TYPE	TRANSITION
AREA	1.7
% AREA SEED	100%
TOTAL LBS	49.6

	SPECIES	COMMON NAME	VARIETY/ CULTIVAR	APPROX. LBS/AC	% OF MIX
	<i>Pascopyrum smithii</i>	western wheatgrass	Rosana	3.0	10.5%
	<i>Elymus lanceolatus spp. psammophilus</i>	streambank wheatgrass	Sodar	6.0	21.1%
	<i>Elymus trachycaulus ssp. Trachycaulus</i>	slender wheatgrass	Pryor	5.0	17.5%
	<i>Leymus cinereus</i>	Great Basin wildrye	Trailhead	4.0	14.0%
	<i>Poa ampla</i>	big bluegrass	Sherman	1.0	3.5%
	<i>Deschampsia caespitosa</i>	tufted hairgrass	Nortran	0.5	1.8%
	<i>Glyceria grandis</i>	American mannagrass	VNS	1.0	3.5%
	<i>Beckmannia syzigachne</i>	American sloughgrass	VNS	1.5	5.3%
	<i>Artemisia frigida</i>	fringed sagebrush	VNS	0.5	1.8%
	<i>Achillea millefolium var. occidentalis</i>	western yarrow	Eagle	0.5	1.8%
	<i>Gaillardia aristata</i>	blanket flower	Meriwether	1.5	5.3%
	<i>Linum lewisii</i>	Lewis blue flax	Maple Grove	0.5	1.8%
	<i>Cleome serrulata</i>	Rocky Mountain beeplant	VNS	3.0	10.5%
	<i>Astragaulus canadensis</i>	Canada milkvetch	VNS	0.5	1.8%
TOTAL SEED RATE (PLS LBS/AC)				28.50	100.00%



DATA SOURCES:
NAT GEO BASEMAP, ESRI
IMAGERY, NHD, MSDI
TRANSPORTATION

DRAFT FINAL - NOT
FOR CONSTRUCTION

PLANT AND SEED TABLES

RACETRACK WETLAND RESTORATION PROJECT
POWELL COUNTY, MONTANA

DATUM: NAD83/NAVD88
PROJECTION: MT STATE PLANE,
INTL FT (FIPS2500)
DRAWN BY: NPLATT
DESIGNED BY: ASACRY
DATE: 2/4/2026

SHEET
R.2