City of Libby
Libby Montana
www.cityoflibby.com

PO Box 1428
952 E. Spruce Street
Libby MT, 59923
(406) 293-2731
Fax (406) 293-4090

REGULAR COUNCIL MEETING #1704

MONDAY, JULY 6, 2026 @ 7:00 PM

COUNCIL CHAMBERS – CITY HALL

CALL TO ORDER:

- Pledge of Allegiance
- Prayer by Don Rasmussen
- Roll Call
- Welcome/Announcements
- Approve minutes for Council Meeting #1702 dated June 1, 2026 and #1703 dated June 15, 2026.

REPORTS:

DEPARTMENT HEADS:

- City Administrator
- Streets
- Police
- Clerk/Treasurer

COUNCIL COMMITTEES:

- Budget
- Building
- Cemetery/Parks
- Fire
- Lights/Streets/Sidewalks
- Ordinance
- Water/Sewer
- Wildlife

OTHER BOARDS:

- Board of Health
- Planning/Zoning
- Shade Tree

PUBLIC COMMENT ON NON-AGENDA ITEMS: This is an opportunity for the public to offer comments related to issues that are not currently on the agenda that the council has jurisdiction over. Public comment is limited to 3 minutes.

NEW BUSINESS: The mayor will introduce each new agenda item with a description of the item and an explanation for the recommended action to be taken. Following council discussion on each item, there will be an opportunity for public comment. Public comment is limited to 3 minutes concerning the agenda item being discussed only.

1. W.R. Grace update on Reservior. (Nick Rains)
2. Steve Lauer Presentation – Fireman's Park garage.
3. Approve Zoning Committee's Recommendation to rezone property described at Parcel B of COS 5014RB.
4. Approve Chainsaw Carving Championship.
5. Introduction regarding proposal for a 5,000 sq. ft. full skatepark at Fireman's Park.
6. Local Government Study Final Report – Minority Report.
7. Approve Resolution #2071 Charter Amendment Election.
8. Approve Resolution #2070 MCEP Commitment of Funds.
9. Approve CHS Mountain West Co-op propane bid.
10. Approve Noble Excavating Bid for Flower Creek Waste Gravel Reclamation Project.
11. Approve WWC Engineering as dam certified engineering firm for Disaser Recover Project
12. Dog Control Agreement.
13. Approve all claims received to date.

UNFINISHED BUSINESS: Each item will be introduced by the mayor (or assigned liaison) with a description of the item. Following council discussion on each item, there will be an opportunity for public comment. No action will be taken. Public comment is limited to 3 minutes concerning each item.

GENERAL COMMENTS FROM COUNCIL: Public comment will not be taken during this portion of the meeting

ADJOURNMENT:

The manner of Addressing Council:

- Each person, not a Council member, shall address the Council at the time designated in the agenda or as directed by the Council, by stepping to the podium or microphone, giving that person's name and address in an audible tone of voice for the record, unless further time is granted by the Council, shall limit the address to the Council to three minutes.
- All remarks shall be addressed to the Council as a body and not to any member of the Council or Staff with no personal remarks allowed.
- No person, other than the Council and the person having the floor, shall be permitted to enter any discussion either directly or through a member of the Council, without the permission of the Presiding Officer.
- Any person making personal, impertinent, or slanderous remarks or who shall become boisterous or disruptive during the council meeting shall be forthwith barred from further presentation to the council by the presiding officer unless permission to continue is granted by a majority vote of the council**.**

ATTENTION:

To access this meeting electronically with **ZOOM**,
Dial: 253-215-8782
Meeting ID: 4042719951
Password: 151041
Posted:7/2/26

City of Libby
952 E. SPRUCE | POST OFFICE BOX 1428
LIBBY, MT. 59923 | Phone 406-293-2731| Fax 406-293-4090 | Website:
www.cityoflibby.org

MEMO

DATE: July 1, 2026

TO: Council Members

FROM: Kristin Smith, Chair, Zoning Commission

RE: Recommendation to rezone property described at Parcel B of COS 5014RB

REQUEST FOR ACTION

At its regularly scheduled meeting on Monday June 22, the Zoning Commission, with all members except Gail Burger present, reviewed the request submitted by Ohno, LLC to rezone a portion of the Asa Wood school property, known as Parcel B of Certificate of Survey 5014RB.

Generally, the Asa Wood school property has been privately held for several years now and is undergoing redevelopment. A new building has been constructed, a new road is being built to connect Nevada Ave. to US Highway 2; and on the specific parcel in question, the old elementary school has been demolished.

The commission discussed the pros and cons of the request and came to the conclusion that the parcel in question was appropriate for the rezone based on several factors:

- Idaho Street is wide, offering space between Residential A across the street
- Portions of the overall property are zoned Highway Commercial which make the Residential Business zone for Parcel B a transition zone for modestly intense uses between fully residential and fully commercial.
- Residential Business will accommodate more dense housing opportunities
- A business that may want to locate in Residential Business district must be approved by Council and are subject to the Conditional Use review criteria and process.

The applicant's representative, Tina Oliphant, was in attendance to answer questions. The commission's primary concern was the speculative nature of the request. The applicants do not have an overall development plan to envision the build out and anticipated mix of uses.

RECOMMENDATION
The Zoning Commission recommends City Council re-zone the property described as Parcel B of COS 5014RB from Residential A to Residential Business.

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To: Zoning Commission

11 Mar 2026

From: Samuel Sikes, City Administrator

Subject: ZONING RECOMMENDATION ICO: FLOWER CREEK DEVELOPMENT LOT B

I have reviewed the request from Ohno LLC, Chris Noble, concerning re-zoning Parcel B of the Flower Creek Development, commonly known as the "Asa Wood" property, from Residence A District to Residential Business District, and recommend approval of the zoning change.

Background: Lot B of the "Asa Wood" property has been historically utilized as school property within the Residence A District and, since the school was constructed, numerous changes in the city zoning ordinances were adopted. In 2020 the city adopted a new Highway Commercial District to accommodate business opportunities that tend to be more auto orientated and in 2024 the city altered the zoning code to ensure that Residential Business District designations were in place to create a buffer between fully commercial and fully residential districts. In 2023 the city adopted a Growth Policy to provide guidance for Libby's future growth that, as stated on page 71, "supports and participates in economic and community development efforts to build and maintain a strong, diverse economy through new and expanded business opportunities."

In 2024 Chris Noble made lot line adjustments to the existing "Asa Wood" property that ensured the land abutting Highway 2 met city standards by being zoned as Highway Commercial District. During adjustments, Parcel A1 was created that ended up being comprised of two separate zoning districts, Highway Commercial and Residence A, and Parcel B was created that remained zoned as Residence A District. These parcels, as currently zoned, lack a buffer between fully commercial and fully residential districts as recommended by city code and adopted by the city council.

Conclusion: The requested zoning change conforms with current city zoning code and creates the recommended buffer between the Highway Commercial and Residential zoning districts. Safeguards are in place to ensure that development within Parcel B would conform to city code such as; the Board of Adjustment is required to approve any business within the district, building permits require a floodplain permit on portions of the property where required, and stormwater is required to be maintained on the property. For these reasons, I recommend approving the zoning change.

Samuel Sikes
City Administrator

city.admin@cityoflibby.com

From:	Tina Oliphant <toliphant@noble-ind.net>
Sent:	Monday, June 1, 2026 2:48 PM
To:	Sam Sikes
Cc:	cnoble@nobleexcavating.com
Subject:	Package for rezoning Parcel B - Flower Creek Development
Attachments:	Package for Rezoning Parcel B.pdf

Sam, see attached the package for rezoning Parcel B (Flower Creek Development) from Residential A to Residential Business.

Tina Oliphant

CITY OF LIBBY

952 E. SPRUCE | POST OFFICE BOX 1428, LIBBY MT, 59923

PHONE 406-293-2731 | FAX 406-293-4090 | WEBSITE: www.cityoflibby.com

PETITION FOR ANNEXATION AND INITIAL ZONING

Project Name Flower Creek Development- Parcel B	Property Address 600 West 8th Street, Libby, MT 59923	
NAME OF APPLICANT Ohno, LLC		Applicant Phone 406.293.1053
Applicant Address PO Box 1592, 108 J Effar Road	City, State, Zip Libby, MT 59923	
Applicant Email Address cnoble@nobleexcavating.com		
If not current owner, please attach a letter from the current owner authorizing the applicant to proceed with the application.		
OWNER OF RECORD Ohno, LLC		Owner Phone 406.293.1053
Owner Address PO Box 1592, 108 J Effar Road	City, State. Zip Libby, MT 59923	
Owner Email Address cnoble@nobleexcavating.com		
CONSULTANT (ARCHITECT/ENGINEER) Andy Evensen, PE Evensen Enoineerino & Consultino, Inc.		Phone 406-885-4064
Address 3674 Foothill Road	City, State, Zip Kalispell, MT 59901	
Email Address andy@eecivil.com		
Address	City, State, Zip	
Email Address		

List **ALL** owners (any individual or other entity with an ownership interest in the property):

No other owners

Legal Description (please provide a full legal description for the property and attach a copy of the most recent deed):

See attached legal description and deed

_____ Please initial here indicating that you have verified the description with the Lincoln County Clerk and Recorder and that the description provided is in a form acceptable to record at their office.

Dcscrip1ion is verified. Deed is recorded. Sec" ,111;dlcc.J Ccnificmc llf Survey

1. Land In project (acres) 4.28 acres

2. Current estimated market value 900,000.00

Estimated market value of proposed development at 50% build out $1,40,000.00

Estimated market value of proposed development at 100% build out $1,800,00.00

3 Is there a Rural Fire Dept RSID or Bond on this property? Yes ____ No_x__ _

If yes, remaining balance is: $________ _

4. Itesent zoning of property ~~Residential A~~

5. Proposed zoning of property Residential Business

6. State the changed or changing conditions that make the annexation necessary:

The property is progressing through engineering and site development planning to support opportunities for professional office space and higher-density residential uses that transition between HWY Commercial and Residential.

WILL THE PROPOSED ZONING DISTRICT ACCOMPLISH THE INTENT AND PURPOSE OF (attach separate sheet w/ answers):

See attached

a. Promoting the Growth Policy

b. Lessening congestion in the streets and providing safe access

c. Promoting safety from fire, panic and other dangers

d. Promoting the public interest, health, comfort, convenience. safety and general welfare

e. Preventing the overcrowding of land

f. Avoiding undue concentration of population

g. Facilitating the adequate provision of transportation. water, sewage, schools, parks and other public facilities

h. Giving reasonable consideration to the character of the district

i. Giving consideration to the peculiar suitability of the property for particular uses

j. Protecting and conserving the value of buildings

k. Encouraging the most appropriate use of land by assuring orderly growth

I hereby certify under penalty of perjury and the laws of the State of Montana that the information submitted herein, on all other submitted forms, documents, plans or any other information submitted as a part of this application, to be true, complete, and accurate to the best of my knowledge. Should any information or representation submitted in connection with this application be incorrect or untrue, I understand that any approval based thereon may be rescinded, and other appropriate action taken. The signing of this application signifies approval for the Kalispell City staff to be present on the property for routine monitoring and inspection during the approval and development process.

[signature]

Applicant Signature

6/1/2026

Date

HOW WILL THE PROPOSED ZONING DISTRICT ACCOMPLISH THE INTENT AND PURPOSE OF RESIDENTIAL BUSINESS ZONING:

The requested change in zoning from Residence A to Residential Business District for the 4.28-acre subject property, identified as Parcel B, will allow the site — including vacant and underutilized areas and the shuttered school building — to advance as a redevelopment opportunity that is more responsive to current needs and more consistent with neighboring development patterns. The requested district is intended as a transition between residential areas and more active corridors by allowing residential uses and, where separately approved, low-impact non-retail business uses that remain compatible with nearby residential properties.

Engineering work is under way for access and utilities serving the subject parcel so that future development can proceed in an orderly manner and in compliance with applicable city requirements.

Responses to Application Narrative:

a. **Promoting the Growth Policy.**
   The requested rezoning supports redevelopment of vacant and underutilized property, encourages infill and efficient land use, and creates a path for reuse of an existing site within the community. To the extent the January 2023 Growth Policy encourages redevelopment of vacant buildings and sites, investment in underutilized land, efficient land use, and provision of needed services, this request is consistent with those objectives.

   Specific Growth Policy Citations:
   i. Promote redevelopment of and use of vacant buildings and sites. (E-6)
   ii. Opportunity to Increase number of workers in sectors currently lacking in the community such as health care (E-7).
   iii. Facilitate redevelopment and encourage development of blighted vacant or undeveloped land (L-1)
   iv. Encourage infill and efficient land use (L-6)

b. **Lessening congestion in the streets and providing safe access.**
   Ingress and egress to the property are designed in coordination with the newly permitted Highway 2 access and with a second connection through Nevada Avenue/ 6th Street. The dual access points, and coordinated infrastructure design will help distribute traffic safely and reduce the risk of concentrated congestion at a single point of entry. Any future site development is required to obtain public works/engineering approval.

   The former elementary school use generated heavier traffic demands, including bus circulation and parent pickup activity. The existing 12-foot pickup lane, running along Idaho between Highway 2 and 6th Street, was developed to accommodate that

historical use, and future redevelopment provides an opportunity to address traffic circulation in a manner more consistent with current site needs.

c. Promoting safety from fire, panic and other dangers

Future development of the property will comply with applicable zoning, building, fire, and public safety requirements. Site design will include required setbacks, emergency access, and utility planning, and all construction will be required to comply with the city's adopted building code and other applicable development standards.

d. Promoting the public interest, health, comfort, convenience, safety and general welfare

The requested zoning change promotes the public interest by creating a reasonable transition district for a property that is no longer functioning in its prior use and is suited for orderly redevelopment. The Residential Business District allows residential uses and opportunities for compatible low-impact, non-retail business uses only where separately approved, which helps protect nearby residential properties while also supporting reinvestment, services, and employment opportunities. Parking, lighting, traffic circulation, and other site improvements will be required to comply with city standards.

e. Preventing the overcrowding of land.

The proposed zoning will not remove the requirement that future development comply with applicable lot, setback, parking, building, and site design standards. Development of the property will be limited by the dimensional and performance standards that apply to the district, and any future use will be subject to review for compliance with those standards.

f. Avoiding undue concentration of population

The requested rezoning does not authorize an intensity of use beyond what is permitted by the zoning ordinance and later site-specific approvals. Residential development, if proposed, will remain subject to applicable zoning and building requirements, and any business use in the district must be separately reviewed and approved as a low-impact, non-retail use. This structure helps avoid undue concentration of population or activity while allowing appropriate reuse of the site.

g. Facilitating the adequate provision of transportation, water, sewage, schools, parks and other public facilities.

Utility easements and the road access must be built to city standards, with the understanding that roads may be annexed by the City at a later date. Engineering reviewed by the City of Libby and the contracted City Planner and Engineer includes design for roadway improvements, sidewalks, street lighting, and city utilities to support

future development. These improvements will help ensure that transportation and utility infrastructure are adequate for the property's future use.

h. Giving reasonable consideration to the character of the district

The property has historically contained an elementary school, which created traffic circulation patterns and on-site access improvements different from a typical single-family residential lot. The requested Residential Business District is appropriate because it is intended to serve as a transition between residential areas and more active areas, rather than as a purely commercial district and serve . Future development under this zoning will be expected to respect neighboring residential uses through appropriate building scale, site design, landscaping, lighting, parking layout, signage, and visual compatibility. Any future business use would require separate approval and would be evaluated with special consideration given to visual impact on neighboring residential uses.

i. Giving consideration to the peculiar suitability of the property for particular uses

The site includes vacant or underutilized land together with a shuttered school building, and is situated in a location where coordinated access and infrastructure planning can support redevelopment more effectively than an isolated site with limited infrastructure coordination. These site characteristics and infrastructure investment make the property suitable for a transition district that can accommodate residential use and, where specifically approved, low-impact non-retail business uses. The requested zoning therefore recognizes the particular circumstances of property history while still preserving compatibility safeguards for surrounding residential areas.

j. Protecting and conserving the value of buildings.

The existing building has been evaluated in connection with Brownfield review and cleanup efforts, and redevelopment included the lawful disposition of the structure. The requested rezoning supports reinvestment in a currently underutilized property and helps prevent continued decline of the site. Redevelopment of vacant land and reuse or lawful disposition of the existing building can protect surrounding property values by replacing long-term vacancy and uncertainty with a regulated path for improvement.

k. Encouraging the most appropriate use of land by assuring orderly growth

The requested rezoning encourages the most appropriate use of the land by allowing the property to transition from a site associated with a former institutional use to a district that better fits its present conditions and position for future redevelopment potential. The rezoning will allow planning for access, utilities, circulation, and site design to proceed in an orderly way and will ensure that future uses remain subject to the city's zoning, building, and permitting requirements. This supports orderly growth, coordinated infrastructure, and compatibility with the surrounding area.

After recording, please return to:
Law Office of J. Tiffi□ Hall
P.O. Box 2109
Eureka, MT 59917
(406) 297-7026

319102 BOOK: 413 RECORDS PAGE: 320 Pages: 2
STATE OF MONTANA LINCOLN COUNTY
RECORDED: 01/05/2026 11:12 KOI: DEED
CORRINA BROWN CLERK AND RECORDER
FEE: $30.00 BY: _____
FOR:J. TIFFIN HALL PO BOX 2109, EUREKA, MONTANA 59917

QUITCLAIM DEED

FOR V£LTJE RECEIVED, Playa Duke Montan<!, LLC, of200 South! 3th Street Suit,! io8., Grover Beach, CA 93433 ("Grantor"), does hereby convey, release, remise and forever quitclaim unto Ohno, LLC of 140 Antler Ridge Road, Libby, **MT** 59923 ("Grantee"), all interest it may have in the following described property in Lincoln County, Montana:

An inegulartract ofland, lying **in** the city limits ofLibby, Montana, Lincoln County, NW1/4 NW1/4SW1/4, Section 3, T30N, R31W, **P.M.M,** MT and more particularly described as Parcel B of COS No. 5014RB.

SUBJECT TO covenants, restrictions, provisions, easements and encumbrances of record.

TO **HA**VE AND TO HOLD said premises, with their appurtenances unto the said Grantee.

DATED this ay of December, 2025.

PLAYA DULCE MONTANA, LLC

Darren Smith, Manager

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Luis Obispo)

On 12-26-2025 before me, Tricia Martinez, Notary Public
(insert name and title of the officer)

personally appeared Darren Smith,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

TRICIA MARTINEZ
COMM. #2530618
Notary Public
California
SAN LUIS OBISPO COUNTY
My Comm. Expires September 17, 2029

Signature _____ **(Seal)**

Comments to the Attached Survey

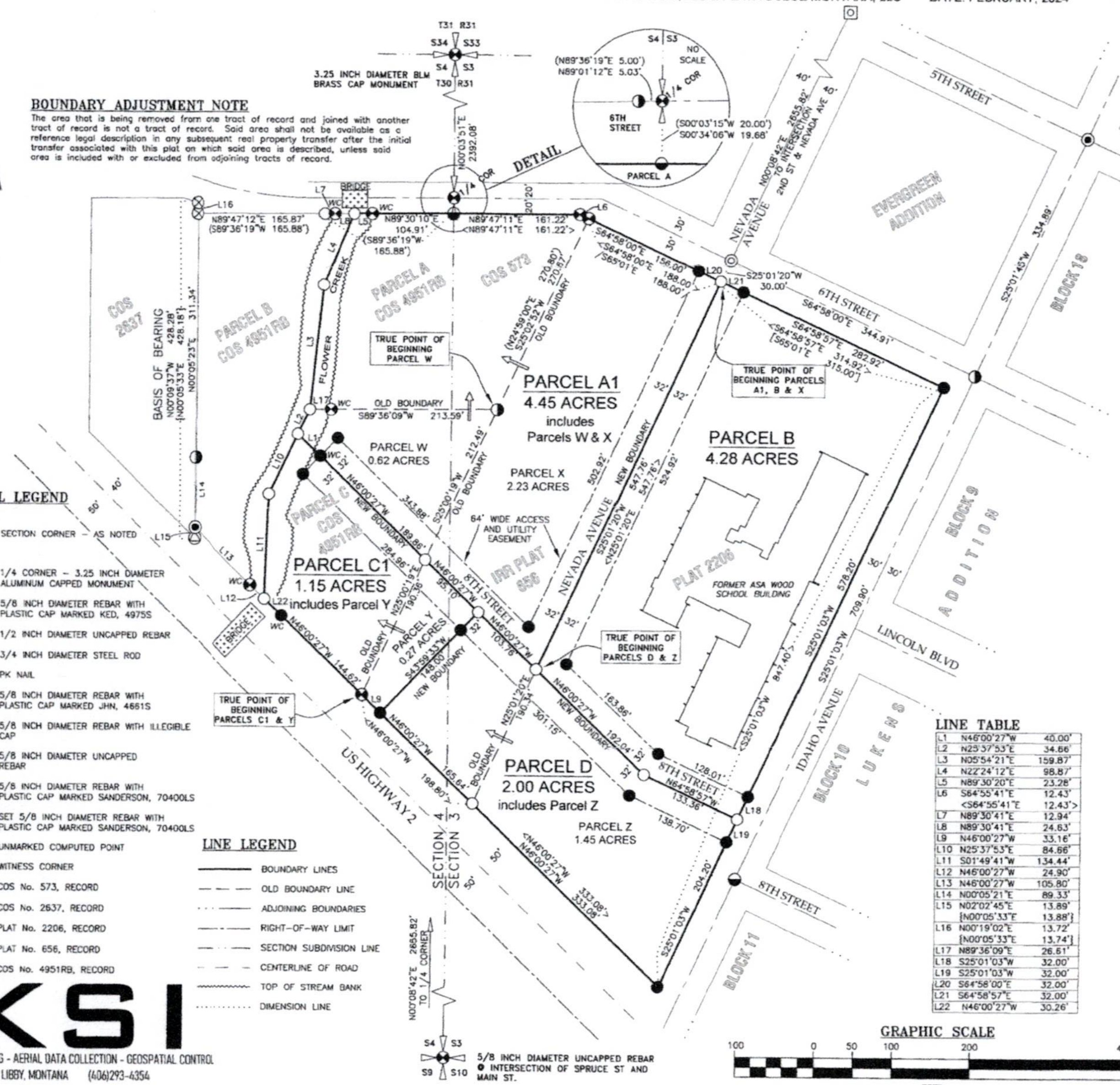
Parcel B:

The request is to rezone the 4.28 acres from Residential A to Residential Business.

CERTIFICATE OF SURVEY

BOUNDARY LINE ADJUSTMENT

PARCELS A & C, COS No. 4951RB, PLAT No. 656, AND PLAT No. 2206 in the
NE1/4 SE1/4, SECTION 4 and NW1/4 SW1/4, SECTION 3, T.30N., R.31W., P.M.,MT., LINCOLN COUNTY, MONTANA
FOR: NOBLE INVESTMENT PROPERTIES, LLC & PLAYA DULCE MONTANA, LLC   DATE: FEBRUARY, 2024



BOUNDARY ADJUSTMENT NOTE

The area that is being removed from one tract of record and joined with another tract of record is not a tract of record. Said area shall not be available as a reference legal description in any subsequent real property transfer after the initial transfer associated with this plat on which said area is described, unless said area is included with or excluded from adjoining tracts of record.

SYMBOL LEGEND

- SECTION CORNER – AS NOTED
- 1/4 CORNER – 3.25 INCH DIAMETER ALUMINUM CAPPED MONUMENT
- 5/8 INCH DIAMETER REBAR WITH PLASTIC CAP MARKED KED, 4975S
- 1/2 INCH DIAMETER UNCAPPED REBAR
- 3/4 INCH DIAMETER STEEL ROD
- PK NAIL
- 5/8 INCH DIAMETER REBAR WITH PLASTIC CAP MARKED JHN, 4661S
- 5/8 INCH DIAMETER REBAR WITH ILLEGIBLE CAP
- 5/8 INCH DIAMETER UNCAPPED REBAR
- 5/8 INCH DIAMETER REBAR WITH PLASTIC CAP MARKED SANDERSON, 70400LS
- SET 5/8 INCH DIAMETER REBAR WITH PLASTIC CAP MARKED SANDERSON, 70400LS
- UNMARKED COMPUTED POINT
- WC WITNESS CORNER
- ( ) COS No. 573, RECORD
- { } COS No. 2637, RECORD
- [ ] PLAT No. 2206, RECORD
- / / PLAT No. 656, RECORD
- < > COS No. 4951RB, RECORD

LINE LEGEND

- BOUNDARY LINES
- OLD BOUNDARY LINE
- ADJOINING BOUNDARIES
- RIGHT-OF-WAY LIMIT
- SECTION SUBDIVISION LINE
- CENTERLINE OF ROAD
- TOP OF STREAM BANK
- DIMENSION LINE

LINE TABLE

L1	N46°00'27"W	40.00'
L2	N25°37'53"E	34.66'
L3	N05°54'21"E	159.87'
L4	N22°24'12"E	98.87'
L5	N89°30'20"E	23.28'
L6	S64°55'41"E <S64°55'41"E	12.43' 12.43'>
L7	N89°30'41"E	12.94'
L8	N89°30'41"E	24.63'
L9	N46°00'27"W	33.16'
L10	N25°37'53"E	84.66'
L11	S01°49'41"W	134.44'
L12	N46°00'27"W	24.90'
L13	N46°00'27"W	105.80'
L14	N00°05'21"E	89.33'
L15	N02°02'45"E {N00°05'33"E	13.89' 13.88'}
L16	N00°19'02"E {N00°05'33"E	13.72' 13.74'}
L17	N89°36'09"E	26.61'
L18	S25°01'03"W	32.00'
L19	S25°01'03"W	32.00'
L20	S64°58'00"E	32.00'
L21	S64°58'57"E	32.00'
L22	N46°00'27"W	30.26'

GRAPHIC SCALE

100 0 50 100 200 400

FEET

KSI

LAND SURVEYING - AERIAL DATA COLLECTION - GEOSPATIAL CONTROL
LIBBY, MONTANA (406)293-4354

PURPOSE OF SURVEY AND OWNER'S EXEMPTION CERTIFICATION

We, Noble Investment Properties, LLC, Representative, & Playa Dulce Montana, LLC, Representative, record owners, hereby certify that the purpose of this survey is the relocation of common boundaries pursuant to MCA 76–3–207(a): "divisions made outside of platted subdivisions for the purpose of relocating common boundary lines between adjoining properties". I further certify that Parcels A1, B, C1, and D are exempt from sanitation review by the Department of Environmental Quality pursuant to ARM 17.36.605(2)(b): a parcel that has a previous approval issued under Title 76, chapter 4, part 1, MCA, if: (i) no facilities other than those previously approved exist or will be constructed on the parcel; and (ii) the division of land will not cause approved facilities to deviate from the conditions of approval, in violation of 76–4–130, MCA;

[signature] member — 2-22-2024
Noble Investment Properties, LLC, Representative — Date

[signature] member — 3-1-24
Playa Dulce Montana, LLC, Representative — Date

ACKNOWLEDGMENT

The foregoing Exemptions were subscribed and acknowledged before me a Notary Public for the State of Montana County of Lincoln by Noble Investment Properties, LLC, Representative, Chris Noble member on this 22 day of February 2024. In witness whereof, I have hereunto set my hand and affixed my notarial seal.

[signature]

residing in: Libby — My Commission expires: 9-17-2027

SHANNON M WOLLEAT NOTARY PUBLIC for the State of Montana Residing at Libby, Montana My Commission Expires September 17, 2027

ACKNOWLEDGMENT

The foregoing Exemptions were subscribed and acknowledged before me a Notary Public for the State of California County of San Luis Obispo by Playa Dulce Montana, LLC, Representative on this 1 day of March 2024. In witness whereof, I have hereunto set my hand and affixed my notarial seal.

[signature]

residing in Arroyo Grande CA My Commission expires 6-22-2026

BASIS OF BEARING

The basis of bearing for this survey is N00°09'37"W between the northeast corner of COS No. 2637, a found 5/8 inch diameter rebar with plastic cap marked DAVIS, 4975S and the southeast corner of COS No. 2637, a found 5/8 inch diameter rebar with plastic cap marked DAVIS, 4975S, as derived from a survey grade Trimble R10–2 GNSS system calibrated to True North. Angular variation between this survey and COS No. 2637 is 00°15'10".

METHOD OF SURVEY

A Trimble R10 Model 2 GNSS System was used to tie previously set controlling corners and road alignments by Calen Williamson, April, 2023.

HISTORY OF SURVEYS

1955 – Plat No. 2206, Ira C. Miller, 402S
1960 – Plat No. 656, Jack Ninneman, 534ES
1977 – COS No. 573, Boundary Location for Conveyance, Jack H. Ninneman, 4661S
1998 – COS No. 2637, Retracement Survey, Kenneth E. Davis, 4975S
2023 – COS No. 4951RB, Boundary Line Adjustment, Byron Sanderson, 70400LS

LAND SURVEYOR'S CERTIFICATION

I hereby certify that I am a Registered Land Surveyor in the State of Montana, that the survey shown on this "Certificate of Survey" has been prepared under my supervision and in accordance with the Montana Code Annotated, Sections 76–3–101 through 76–3–625, and the Lincoln County Regulations adopted pursuant thereto.

[signature] — 2-22-24
Byron Sanderson, PLS 70400LS — Date

MONTANA BYRON SANDERSON No. 70400LS PROFESSIONAL LICENSED SURVEYOR

EXAMINING LAND SURVEYOR'S CERTIFICATION

Examined this 8th day of March 2024 A.D.

[signature] PLS
Steven A. Boyer, PLS, Lincoln County Examining Land Surveyor

COUNTY TREASURER'S CERTIFICATION

I hereby certify that all real property taxes and special assessments assessed and levied on the parcel shown hereon are paid pursuant to Section 76–3–207(3), M.C.A.

Sedaris Carlberg by K. Randall — 3.8.2024
Lincoln County Treasurer — Date

LINCOLN COUNTY TREASURER SEAL STATE OF MONTANA

CLERK AND RECORDER'S CERTIFICATION

State of Montana, County of Lincoln, filed this 22 day of March 2024 A.D. at 8:52 o'clock

Corrina Brown by [signature] Starkson
Lincoln County Clerk and Recorder — Deputy

CERTIFICATE OF SURVEY No. 5014RB

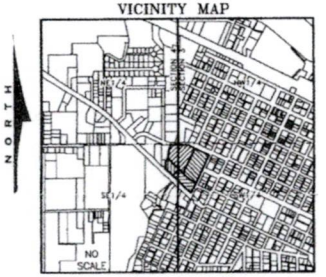
SHEET 1 OF 2

CERTIFICATE OF SURVEY

BOUNDARY LINE ADJUSTMENT

PARCELS A & C, COS No. 4951RB, PLAT No. 656, AND PLAT No. 2206 in the
NE1/4 SE1/4, SECTION 4 and NW1/4 SW1/4, SECTION 3, T.30N., R.31W., P.M.,MT., LINCOLN COUNTY, MONTANA
FOR: NOBLE INVESTMENT PROPERTIES, LLC & PLAYA DULCE MONTANA, LLC DATE: FEBRUARY, 2024

VICINITY MAP



E1/2 S4 & W1/2 S3

LEGAL DESCRIPTION; PARCEL A1

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the intersection of "6th Street" and "Nevada Avenue", a 3/4 inch diameter steel rod; Thence along the centerline of "Nevada Avenue" S25°01'20"W, 30.00 feet to an unmarked computed point and the TRUE POINT OF BEGINNING: Thence continuing along said centerline S25°01'20"W, 547.76 feet to an unmarked computed point, being the intersection of "Nevada Avenue" and "8th Street"; Thence along the centerline of "8th Street" N46°00'27"W, 103.76 feet to an unmarked computed point; Thence continuing along said centerline the following two courses: Thence N46°00'27"W, 95.10 feet to an unmarked computed point; Thence N46°00'27"W, 189.86 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying at the top of the bank of Flower Creek; Thence N46°00'27"W, 40.00 feet to an unmarked computed point lying in the middle of Flower Creek; Thence along the middle of said creek the following three courses: Thence N25°37'53"E, 34.66 feet to an unmarked computed point; Thence N05°54'21"E, 159.87 feet to an unmarked computed point; Thence N22°24'12"E, 98.87 feet to an unmarked computed point lying on the southerly right-of-way limit of "6th Street"; Thence along said right-of-way limit N89°30'20"E, 23.28 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, being the top of the bank of Flower Creek; Thence continuing along said right-of-way limit the following four courses: Thence N89°30'10"E, 104.91 feet to a 1/2 inch diameter uncapped rebar; Thence N89°47'11"E, 161.22 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS; Thence S64°55'41"E, 12.43 feet to a 5/8 inch diameter with plastic cap marked SANDERSON, 70400LS; Thence S64°58'00"E, 156.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the westerly right-of-way limit of "Nevada Avenue"; Thence S64°58'00"E, 32.00 feet to an unmarked computed point and the TRUE POINT OF BEGINNING, containing 4.45 acres. Subject to and together with all appurtenant easements of record.

LEGAL DESCRIPTION; PARCEL B

An irregular tract of land, lying in the city limits of Libby, Montana, Lincoln County, NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the intersection of "6th Street" and "Nevada Avenue", a 3/4 inch diameter steel rod; Thence along the centerline of "Nevada Avenue": S25°01'20"W, 30.00 feet to an unmarked computed point lying on the southerly right-of-way limit of "6th Street" and the TRUE POINT OF BEGINNING: Thence along said right-of-way limit S64°58'57"E, 32.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the easterly right-of-way limit of "Nevada Avenue"; Thence continuing on the southerly right-of-way limit of said "6th Street" S64°58'57"E, 282.92 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS; Thence along the westerly right-of-way limit of "Idaho Avenue" S25°01'03"W, 578.20 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the northerly right-of-way limit of "8th Street"; Thence continuing along said westerly right-of-way limit of "Idaho Avenue" S25°01'03"W, 32.00 feet to an unmarked computed point; Thence along the centerline of "8th Street" N64°58'57"W, 133.36 feet to an unmarked computed point; Thence continuing along said centerline N46°00'27"W, 192.04 feet to an unmarked computed point being the intersection of "8th Street" and "Nevada Avenue"; Thence along the centerline of "Nevada Avenue" N25°01'20"E, 547.76 feet to an unmarked computed point and the TRUE POINT OF BEGINNING, containing 4.28 acres. Subject to and together with all appurtenant easements of record.

LEGAL DESCRIPTION; PARCEL C1

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the southeast corner, Parcel C, COS No. 4951RB, a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2 and the TRUE POINT OF BEGINNING: Thence along said right-of-way limit N46°00'27"W, 144.62 feet to a 5/8 inch diameter with plastic cap marked SANDERSON, 70400LS; Thence continuing along said right-of-way limit N46°00'27"W 30.26 feet to an unmarked computed point lying in the middle of Flower Creek; Thence along the middle of said creek the following two courses: Thence N01°49'41"E, 134.44 feet to an unmarked computed point; Thence N25°37'53"E, 84.66 feet to an unmarked computed point; Thence S46°00'27"E, 40.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, being the top of the bank of Flower Creek and lying on the centerline of "8th Street"; Thence along said centerline S46°00'27"E, 189.86 feet to an unmarked computed point; Thence continuing along said centerline S46°00'27"E, 95.10 feet to an unmarked computed point; Thence S43°59'33"W, 180.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2; Thence along said right-of-way limit N46°00'27"W, 33.16 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS and the TRUE POINT OF BEGINNING, containing 1.15 acres. Subject to and together with all appurtenant easements of record.

LEGAL DESCRIPTION; PARCEL D

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the intersection of "6th Street" and "Nevada Avenue", a 3/4 inch diameter steel rod; Thence along the centerline of "Nevada Avenue" S25°01'20"W, 30.00 feet to an unmarked computed point; Thence continuing along said centerline S25°01'20"W, 547.76 feet to an unmarked computed point being the intersection of "Nevada Avenue" and "8th Street" and the TRUE POINT OF BEGINNING: Thence along the centerline of said "8th Street" S46°00'27"E, 192.04 feet to an unmarked computed point; Thence continuing along said centerline S64°58'57"E, 133.36 feet to an unmarked computed point lying on the westerly right-of-way limit of "Idaho Avenue"; Thence along said right-of-way limit S25°01'03"W, 32.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the southerly right of way limit of "8th Street"; Thence continuing along said westerly right-of-way limit of "Idaho Avenue" S25°01'03"W, 204.20 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2; Thence along said right-of-way limit N46°00'27"W, 333.08 feet to an unmarked computed point; Thence continuing along said right-of-way limit N46°00'27"W, 165.64 feet to a 5/8 inch diameter with plastic cap marked SANDERSON, 70400LS; Thence N43°59'33"E, 180.00 feet to an unmarked computed point lying on the centerline of "8th Street"; Thence along said centerline S46°00'27"E, 103.76 feet to an unmarked computed point and the TRUE POINT OF BEGINNING, containing 2.00 acres. Subject to and together with all appurtenant easements of record.

LEGAL DESCRIPTION; PARCEL W

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the northeast corner of Parcel C, COS No. 4951RB, a 5/8 inch diameter rebar with plastic cap marked JHN, 46615 and the TRUE POINT OF BEGINNING: Thence along the east boundary of said Parcel C, S25°00'19"W, 212.49 feet to an unmarked computed point lying on the centerline of "8th Street"; Thence along said centerline N46°00'27"W, 189.86 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying at the top of the bank of Flower Creek; Thence N46°00'27"W, 40.00 feet to an unmarked computed point lying in the middle of Flower Creek; Thence along the middle of said creek N25°37'53"E, 34.66 feet to an unmarked computed point; Thence along the north boundary of Parcel C, COS No. 4951RB, N89°36'09"E, 26.61 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, being the top of the bank of Flower Creek; Thence continuing along said north boundary N89°36'09"E, 213.59 feet to a 5/8 inch diameter rebar with plastic cap marked JHN, 46615 and the TRUE POINT OF BEGINNING, containing 0.62 acres. Subject to and together with all appurtenant easements of record. The afore described parcel shall become part of Parcel A1, as shown hereon, and shall not be conveyed as a separate tract of land.

LEGAL DESCRIPTION; PARCEL X

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the intersection of "6th Street" and "Nevada Avenue", a 3/4 inch diameter steel rod; Thence along the centerline of "Nevada Avenue" S25°01'20"W, 30.00 feet to an unmarked computed point lying on the southerly right-of-way limit of "6th Street" and the TRUE POINT OF BEGINNING: Thence continuing along said centerline S25°01'20"W, 547.76 feet to an unmarked computed point being the intersection of "Nevada Avenue" and "8th Street"; Thence along the centerline of "8th Street" N46°00'27"W, 103.76 feet to an unmarked computed point; Thence continuing along said centerline N46°00'27"W, 95.10 feet to an unmarked computed point; Thence along the east boundary of Parcel C, COS No. 4951RB, N25°00'19"E, 212.49 feet to a 5/8 inch diameter rebar with plastic cap marked JHN, 46615; Thence along the east boundary of Parcel A, COS No. 4951RB, N25°02'52"E, 270.67 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the southerly right-of-way limit of "6th Street"; Thence along said right-of-way limit S64°58'00"E, 156.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the westerly right-of-way limit of "Nevada Avenue"; Thence continuing along said southerly right-of-way limit of "6th Street" S64°58'00"E, 32.00 feet to an unmarked computed point and the TRUE POINT OF BEGINNING, containing 2.23 acres. Subject to and together with all appurtenant easements of record. The afore described parcel shall become part of Parcel A1, as shown hereon, and shall not be conveyed as a separate tract of land.

LEGAL DESCRIPTION; PARCEL Y

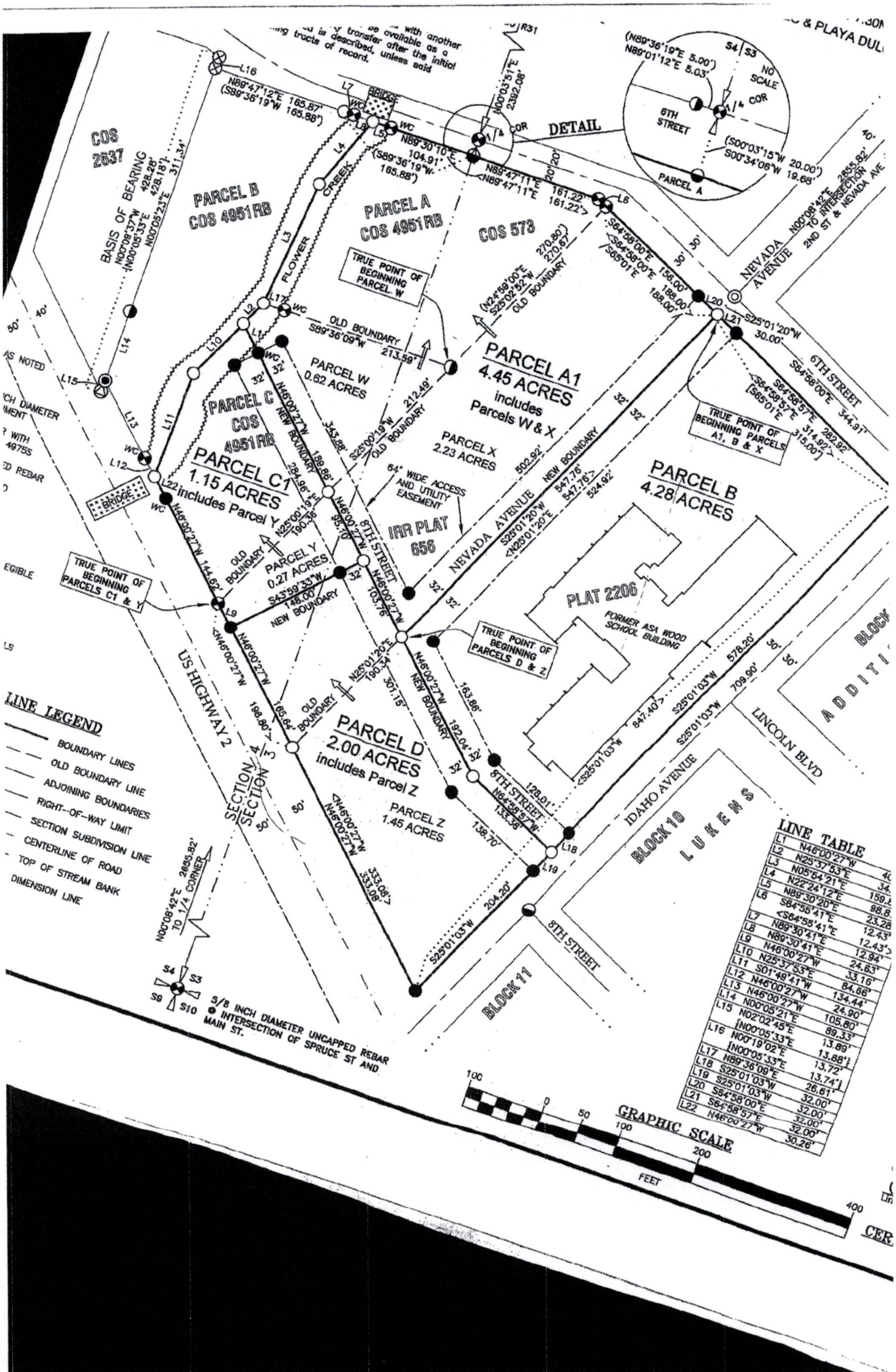
An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NE1/4 NE1/4 SE1/4, Section 4 and NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the southeast corner, Parcel C, COS No. 4951RB, a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2 and the TRUE POINT OF BEGINNING: Thence along the east boundary of said Parcel C, N25°00'19"E, 190.36 feet to an unmarked computed point lying on the centerline of "8th Street"; Thence along said centerline S46°00'27"E, 95.10 feet to an unmarked computed point; Thence S43°59'33"W, 180.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2; Thence along said right-of-way limit N46°00'27"W, 33.16 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS and the TRUE POINT OF BEGINNING, containing 0.27 acres. Subject to and together with all appurtenant easements of record. The afore described parcel shall become part of Parcel C1, as shown hereon, and shall not be conveyed as a separate tract of land.

LEGAL DESCRIPTION; PARCEL Z

An irregular tract of land, lying in the city of Libby, Montana, Lincoln County, NW1/4 NW1/4 SW1/4, Section 3, T.30N., R.31W., P.M.,MT., and more particularly described as follows:
Commencing at the intersection of "6th Street" and "Nevada Avenue", a 3/4 inch diameter steel rod; Thence along the centerline of "Nevada Avenue" S25°01'20"W, 30.00 feet to an unmarked computed point; Thence continuing along said centerline S25°01'20"W, 547.76 feet to an unmarked computed point being the intersection of "Nevada Avenue" and "8th Street" and the TRUE POINT OF BEGINNING: Thence along the centerline of "8th Street" S46°00'27"E, 192.04 feet to an unmarked computed point; Thence continuing along said centerline S64°58'57"E, 133.36 feet to an unmarked computed point, lying on the westerly right-of-way limit of "Idaho Avenue"; Thence along said right-of-way limit S25°01'03"W, 32.00 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS lying on the southerly right-of-way limit of "8th Street"; Thence continuing along said westerly right-of-way limit of "Idaho Avenue" S25°01'03"W, 204.20 feet to a 5/8 inch diameter rebar with plastic cap marked SANDERSON, 70400LS, lying on the northeasterly right-of-way limit of US Highway 2; Thence along said right-of-way limit N46°00'27"W, 333.08 feet to an unmarked computed point; Thence along the east boundary of Irregular Plat No. 656, N25°01'20"E, 190.34 feet to an unmarked computed point and the TRUE POINT OF BEGINNING, containing 1.45 acres. Subject to and together with all appurtenant easements of record. The afore described parcel shall become part of Parcel D, as shown hereon, and shall not be conveyed as a separate tract of land.

KSI
LAND SURVEYING - AERIAL DATA COLLECTION - GEOSPATIAL CONTROL
LIBBY, MONTANA (406)293-4354

CERTIFICATE OF SURVEY No. 5014 RB



LINE TABLE

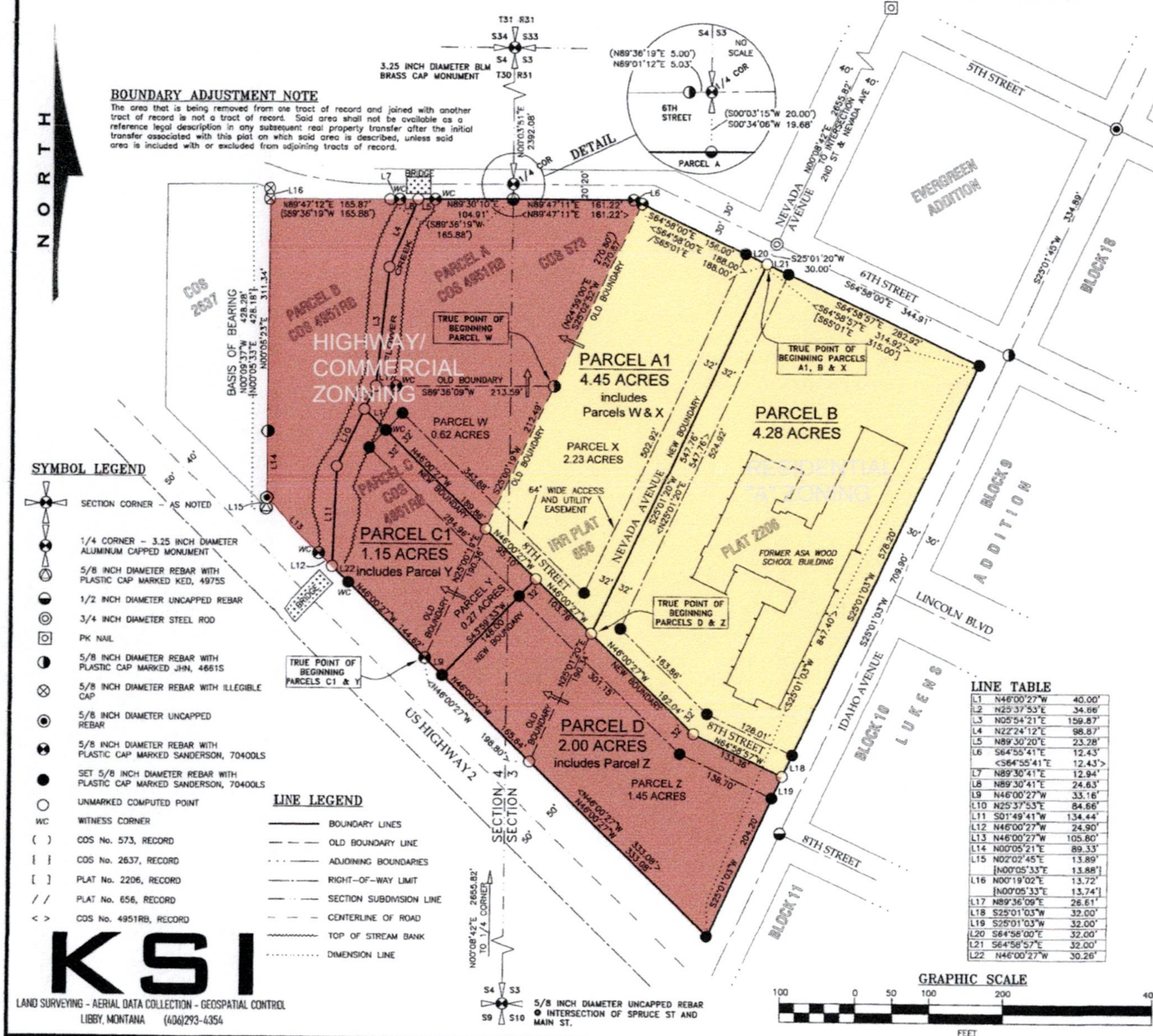
L1	N46°00'27"W	40
L2	N25°37'53"W	34.
L3	N05°54'21"E	159.6
L4	N22°24'12"E	98.8
L5	N89°30'20"E	23.28
L6	S64°55'41"E <S64°55'41"E	12.43' 12.43'>
L7	N89°30'41"E	12.94'
L8	N89°30'41"E	24.63'
L9	N46°00'27"W	33.16'
L10	N25°37'53"E	84.66'
L11	S01°49'41"W	134.44'
L12	N46°00'27"W	24.90'
L13	N46°00'27"W	105.80'
L14	N00°05'21"E	89.33'
L15	N02°02'45"E {N00°05'33"E	13.89' 13.88'}
L16	N00°19'02"E {N00°05'33"E	13.72' 13.74'}
L17	N89°36'09"E	26.61'
L18	S25°01'03"W	32.00'
L19	S25°01'03"W	32.00'
L20	S64°58'00"E	32.00'
L21	S64°58'57"E	32.00'
L22	N46°00'27"W	30.26'

CERTIFICATE OF SURVEY

BOUNDARY LINE ADJUSTMENT

PARCELS A & C, COS No. 4951RB, PLAT No. 656, AND PLAT No. 2206 in the NE1/4 SE1/4, SECTION 4 and NW1/4 SW1/4, SECTION 3, T.30N., R.31W., P.M.,MT., LINCOLN COUNTY, MONTANA

FOR: NOBLE INVESTMENT PROPERTIES, LLC & PLAYA DULCE MONTANA, LLC   DATE: FEBRUARY, 2024



LINE TABLE

L1	N46°00'27"W	40.00'
L2	N25°37'53"E	34.66'
L3	N05°54'21"E	159.87'
L4	N22°24'12"E	98.87'
L5	N89°30'20"E	23.28'
L6	S64°55'41"E	12.43'
	<S64°55'41"E	12.43'>
L7	N89°30'41"E	12.94'
L8	N89°30'41"E	24.63'
L9	N46°00'27"W	33.16'
L10	N25°37'53"E	84.66'
L11	S01°49'41"W	134.44'
L12	N46°00'27"W	24.90'
L13	N46°00'27"W	105.80'
L14	N00°05'21"E	89.33'
L15	N02°02'45"E	13.89'
	{N00°05'33"E	13.88'}
L16	N00°19'02"E	13.72'
	{N00°05'33"E	13.74'}
L17	N89°36'09"E	26.61'
L18	S25°01'03"W	32.00'
L19	S25°01'03"W	32.00'
L20	S64°58'00"E	32.00'
L21	S64°58'57"E	32.00'
L22	N46°00'27"W	30.26'

PURPOSE OF SURVEY AND OWNER'S EXEMPTION CERTIFICATION

We, Noble Investment Properties, LLC, Representative, & Playa Dulce Montana, LLC, Representative, record owners, hereby certify that the purpose of this survey is the relocation of common boundaries pursuant to MCA 76-3-207(a): "divisions made outside of platted subdivisions for the purpose of relocating common boundary lines between adjoining properties". I further certify that Parcels A1, B, C1, and D are exempt from sanitation review by the Department of Environmental Quality pursuant to ARM 17.36.605(2)(b): a parcel that has a previous approval issued under Title 76, chapter 4, part 1, MCA, if: (i) no facilities other than those previously approved exist or will be constructed on the parcel; and (ii) the division of land will not cause approved facilities to deviate from the conditions of approval, in violation of 76-4-130, MCA;

[signature] member — Noble Investment Properties, LLC, Representative — Date: 2-22-2024

[signature] member — Playa Dulce Montana, LLC, Representative — Date: 3-1-24

ACKNOWLEDGMENT

The foregoing Exemptions were subscribed and acknowledged before me a Notary Public for the State of Montana County of Lincoln by Noble Investment Properties, LLC, Representative, Chris Noble member on this 22 day of February 2024. In witness whereof, I have hereunto set my hand and affixed my notarial seal.

[signature]

residing in: Libby My Commission expires: 9/17/2027

SHANNON M WOLLEAT NOTARY PUBLIC for the State of Montana Residing at Libby, Montana My Commission Expires September 17, 2027

ACKNOWLEDGMENT

The foregoing Exemptions were subscribed and acknowledged before me a Notary Public for the State of California County of San Luis Obispo by Playa Dulce Montana, LLC, Representative on this 1 day of March 2024. In witness whereof, I have hereunto set my hand and affixed my notarial seal.

[signature]

residing in Arroyo Grande CA My Commission expires: 6-22-2026

BASIS OF BEARING

The basis of bearing for this survey is N00°09'37"W between the northeast corner of COS No. 2637, a found 5/8 inch diameter rebar with plastic cap marked DAVIS, 4975S and the southeast corner of COS No. 2637, a found 5/8 inch diameter rebar with plastic cap marked DAVIS, 4975S, as derived from a survey grade Trimble R10-2 GNSS system calibrated to True North. Angular variation between this survey and COS No. 2637 is 00°15'10".

METHOD OF SURVEY

A Trimble R10 Model 2 GNSS System was used to tie previously set controlling corners and road alignments by Colen Williamson, April, 2023.

HISTORY OF SURVEYS

1955 – Plat No. 2206, Ira C. Miller, 402S
1960 – Plat No. 656, Jack Ninneman, 534ES
1977 – COS No. 573, Boundary Location for Conveyance, Jack H. Ninneman, 4661S
1998 – COS No. 2637, Retracement Survey, Kenneth E. Davis, 4975S
2023 – COS No. 4951RB, Boundary Line Adjustment, Byron Sanderson, 70400LS

LAND SURVEYOR'S CERTIFICATION

I hereby certify that I am a Registered Land Surveyor in the State of Montana, that the survey shown on this "Certificate of Survey" has been prepared under my supervision and in accordance with the Montana Code Annotated, Sections 76-3-101 through 76-3-625, and the Lincoln County Regulations adopted pursuant thereto.

[signature] Byron Sanderson, PLS 70400LS — Date: 2-22-24

MONTANA BYRON SANDERSON No. 70400LS PROFESSIONAL LICENSED SURVEYOR

EXAMINING LAND SURVEYOR'S CERTIFICATION

Examined this 8th day of MARCH 2024 A.D.

[signature] PLS — Steven A. Boyer, PLS 9750LS, Lincoln County Examining Land Surveyor

COUNTY TREASURER'S CERTIFICATION

I hereby certify that all real property taxes and special assessments assessed and levied on the parcel shown hereon are paid pursuant to Section 76-3-207(3), M.C.A.

Sedaris Carlberg by K. Randall — Lincoln County Treasurer — Date: 3.8.2024

LINCOLN COUNTY TREASURER SEAL STATE OF MONTANA

CLERK AND RECORDER'S CERTIFICATION

State of Montana, County of Lincoln, filed this 22 day of March 2024 A.D. at 8:52 o'clock

Corrina Brown — Lincoln County Clerk and Recorder — by [signature] Starkson, Deputy

CERTIFICATE OF SURVEY No. 5014RB

SHEET 1 OF 2

2026 Kootenai Country Montana International Chainsaw Carving Championship

We are applying for a similar street closure plan as the previous year's events. The goal of the event is to foster a positive presence in Libby for its people and businesses. Here are the proposed closures: the first two blocks of Mineral Ave from Achievements to the Pastime and 2nd Street from California to the alley just past Po Sams. Brewery employees and property owners still maintain access to parking.

Timeline:

Wednesday, Sept 9- Street closure begins at 7am for set up of carvers, vendors and public safety barriers, port-a-pots, and dumpsters.

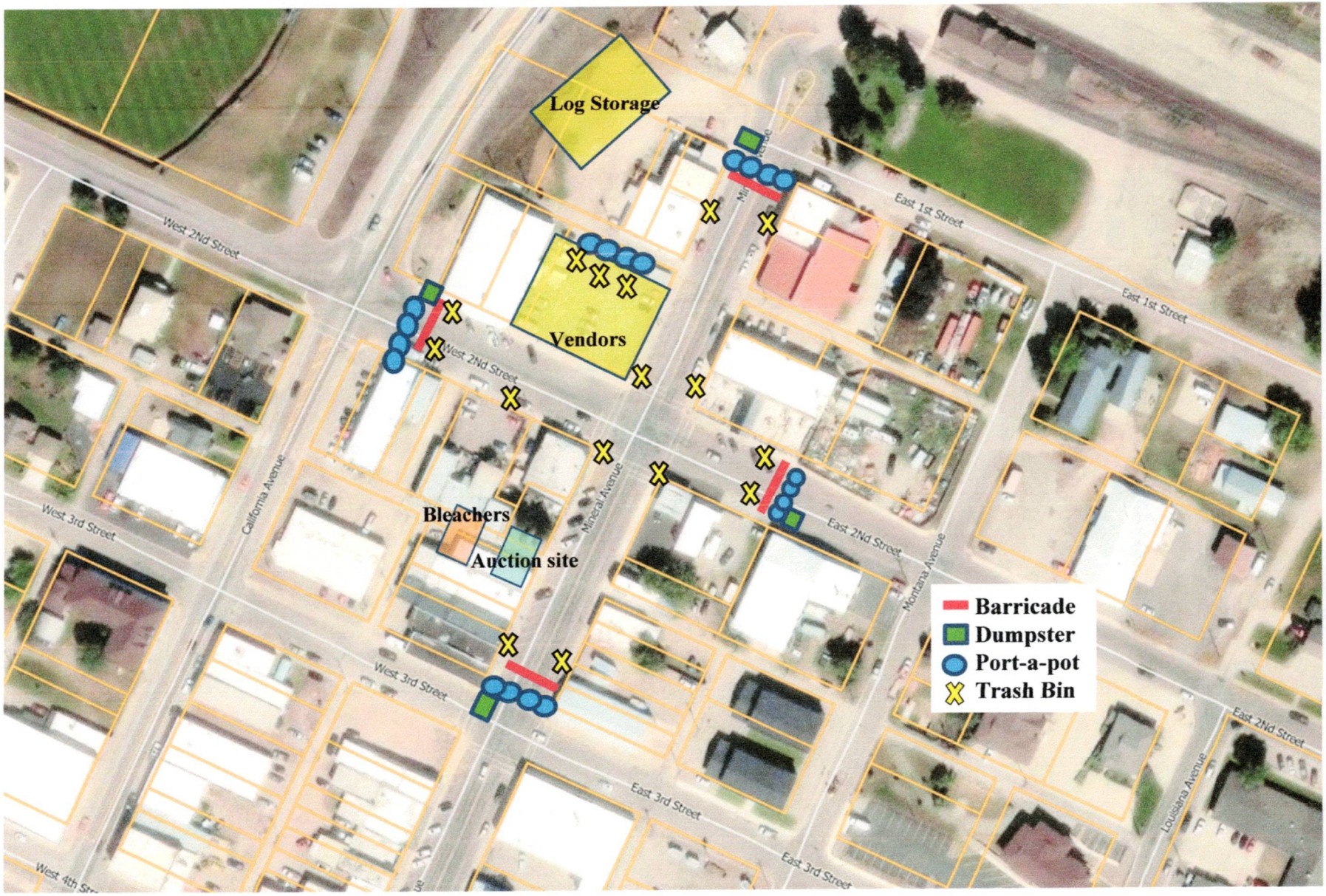
Thursday thru Sunday, Sept 10-13 – Carving events and venders.

Sunday, Sept 13 - Awards presentation, final auction, and cleanup. Streets to reopen at roughly 10pm.

Execution:

- Security on duty from Wednesday evening until beginning of carving Thursday, end of carving every consecutive day until beginning of carving the next day. The last security detail will end Sunday morning at the beginning of carving.
- Crowd control accomplished through caution tape separating the crowd from the carvers. The entire street will be closed off from the public; observation area will be the sidewalks surrounding the event.
- Debris cleaned up continually during event. The cleanup lane will be the center of Mineral avenue to better reduce the public exposure to the process.
- Portable toilets including an accessible unit and handwashing station will be onsite.
- Trash bins will be placed at the street corners of event.
- The concession area including the beer garden will be contained in the parking lot of the Libby VFW
- We are requesting an open alcohol container exception for the duration of the event during the hours of 8am to 6pm on Sept 9th through September 13th.
- We will have no dogs allowed signage up around the entire event.

Chainsaw Carving Event 9-13 September 2026



RESOLUTION NO. 2070

WHEREAS, the City of Libby applied to the Montana Department of Commerce for financial assistance from the Montana Coal Endowment Program (MCEP) for improvements to their wastewater system; and

WHEREAS, the City of Libby received an MCEP Grant for $500,000 in financial assistance for improvements to their wastewater system; and

WHEREAS, the City of Libby received an RRGL Grant for $125,000 in financial assistance for improvements to their wastewater system; and

WHEREAS, the City of Libby has the legal jurisdiction and authority to construct, finance, operate, and maintain the wastewater system; and

THAT; the City of Libby agrees to comply with all State laws and regulations and requirements described in the MCEP Application Guidelines and those that will be described in the MCEP Project Administration Manual;

THAT; the City of Libby firmly commits to provide local funds in the amount of at least $434,000 from the Wastewater fund for the system improvements; and

THAT; Hugh Taylor is authorized to commit funds on the behalf of the City of Libby and to act on its behalf to provide such additional information as may be required.

THEREFORE, BE IT RESOLVED by the City Council of the City of Libby, that this Resolution is effective on July 6th, 2026.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF LIBBY, MONTANA, on this 6th day of July 2026.

By: _____
Hugh Taylor, Mayor

Attest: _____
Leann Monigold, Clerk/Treasurer

City of Libby
Libby Montana

www.cityoflibby.com

PO Box 1428
952 E. Spruce Street
Libby MT, 59923
(406) 293-2731
Fax (406) 293-4090

From: Samuel Sikes, City Administrator 2 July 2026

To: Libby City Council

Subject: ENGINEER RECOMMENDATION FOR DISASTER RECOVERY PROJECT

In May of 2026 the city advertised for qualified dam engineering services for the Lower Flower Creek Reservoir disaster recovery project. The deadline for submittals was on June 12, 2026, and only one proposal was received from WWC Engineering. The city did invite Great West Engineering to make a proposal as well as WWC Engineering. Matthew Mudd from Great West contacted Gary Beach and informed him via phone that they would not be submitting a proposal. I believe that the requirements of fair and open competition has been satisfied.

With only one proposal being received, and that proposal meeting the requirements as advertised in the request for qualifications, I request that WWC Engineering be named as the dam certified engineering firm for the disaster recovery project.

Samuel Earl Sikes
City Administrator

From: Kevin Grabinski
To: city.admin@cityoflibby.com
Cc: Scott Dunkelberger; Drew Pearson
Subject: SOQ - Dam Engineering Services - Lower Flower Creek Reservoir
Date: Wednesday, June 10, 2026 4:23:11 PM
Attachments: SOQ City of Libby Lower Flower Creek Reservoir Embankment Disaster Recovery.pdf

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Good afternoon, Sam,

Please find attached WWC Engineering's Statement of Qualifications for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project.

I will be out of the country when I anticipate you'll be evaluating SOQ submittals next week, but Scott Dunkelberger will be available by email or phone if any questions come up during your review.

We appreciate the opportunity to submit and look forward to continuing to work with the City of Libby on this important project.

Sincerely,
Kevin

WWC ENGINEERING
Kevin Grabinski, P.E. | Environmental Department Manager
1275 Maple Street, Suite F | Helena, MT 59601
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WWC ENGINEERING

1275 MAPLE STREET SUITE F, HELENA, MT 59601 | 406.443.3962

June 10, 2026

Samuel Sikes, City Administrator
City of Libby
952 E. Spruce Street
PO Box 1428
Libby, MT 59923

Re: Statement of Qualifications for Dam Engineering Services - Lower Flower Creek Reservoir Embankment Disaster Recovery Project

Dear Mr. Sikes:

WWC Engineering respectfully submits the enclosed Statement of Qualifications to provide dam engineering services for the City of Libby's Lower Flower Creek Reservoir Embankment Disaster Recovery Project. The City needs a qualified dam engineering team that can move quickly, understand the flood-related damage, develop a practical repair/replacement design, coordinate with regulatory and funding agencies, and support the project through construction within the compressed schedule identified in the RFQ. WWC is prepared to meet those needs.

WWC is especially well qualified for this assignment because our team combines local responsiveness, extensive dam rehabilitation experience, Montana DNRC Dam Safety Program familiarity, and strong state and federal funding compliance experience. Our Kalispell office provides a nearby field-support base for rapid mobilization to Libby, while our Helena office facilitates efficient coordination with the Montana DNRC Dam Safety Program. This combination will help the city move quickly from investigation and design into construction while maintaining clear communication with the city, reviewing agencies, contractors, and funding representatives.

Kevin Grabinski, P.E., a Montana-licensed Professional Engineer with more than 20 years of dam, water resources, geotechnical, hydraulic, structural, and construction administration experience, will serve as WWC's Project Manager and Lead Design Engineer. Kevin will lead a team that includes experienced dam rehabilitation, geotechnical, hydraulic, structural, surveying, construction administration, and grant administration personnel. WWC's proposed team has worked together on numerous dam and water infrastructure projects and has the technical depth and availability needed to meet the City's 60-day draft engineering report requirement and support project completion through construction.

WWC brings more than 45 years of experience delivering dam, reservoir, irrigation, outlet works, spillway, embankment, seepage mitigation, and construction-phase services throughout Montana and the Rocky Mountain region. Our relevant project experience includes Glen Lake Dam, Costich Lake Dam, Eureka Reservoir, Newlan Creek Dam, Deadman's Basin, Wilson Dam,

Jackson Dam, Doggett Dam, Lake DeSmet, and other regulated dam projects involving embankment evaluation, outlet/headwall improvements, seepage and slope stability considerations, access constraints, constructible repairs, DNRC coordination, and funding documentation.

The Lower Flower Creek Reservoir project requires more than a technically sound design. It also requires cost control, constructability, schedule discipline, and reimbursement-ready documentation for state and federal disaster recovery funding. WWC understands FEMA, Montana DES, DNRC, 2 CFR Part 200, procurement, conflict-of-interest, lobbying, documentation, and closeout requirements associated with publicly funded infrastructure projects. We will integrate these requirements into the project workflow from the outset, so the city has clear records supporting design decisions, quantities, cost estimates, construction changes, field observations, and reimbursement eligibility.

WWC appreciates the opportunity to submit our qualifications and is committed to helping the City of Libby restore the Lower Flower Creek Reservoir facility efficiently, responsibly, and in compliance with all applicable technical, regulatory, funding, and schedule requirements. We believe WWC offers the right combination of local presence, dam engineering expertise, funding program knowledge, and proven project delivery experience to successfully complete this important disaster recovery project.

Sincerely,

Kevin Grabinski

Kevin Grabinski, P.E.
Project Manager/Lead Design Engineer

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WWC ENGINEERING

June 12, 2026

STATEMENT OF QUALIFICATIONS

DAM ENGINEERING SERVICES FOR LOWER FLOWER CREEK RESERVOIR EMBANKMENT DISASTER RECOVERY (DR) PROJECT

Statement of Qualifications

Dam Engineering Services for Lower Flower Creek Reservoir Embankment Disaster Recovery (DR) Project

Prepared for:

City of Libby
ATTN: Samual Sikes
952 E. Spruce Street
P.O. Box 1428
Libby MT, 59923
Email: city.admin@cityoflibby.com

Prepared by:

WWC Engineering
1275 Maple Street, Suite F
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Principal Author: Kevin Grabinski, P.E.| Environmental Department Manager

Reviewed by: Drew Pearson, E.S.| Helena Branch Manager

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INTRODUCTION AND OFFICE LOCATIONS

WWC Helena Office
1275 Maple Street, Suite F
Helena, MT 59601
(406) 443-3962
&
WWC Kalispell Office
18 Village Loop Road
Kalispell, MT 59901
(406) 300-0661

WWC Engineering (WWC) respectfully presents this SOQ to provide Professional Engineering & Surveying services to the City of Libby for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. WWC is an independent, employee-owned, multi-disciplinary, professional firm specializing in water resources, civil/site, environmental, NEPA, surveying, land development, mining, oil & gas, planning, roads/bridges, and water/wastewater services.

WWC began operations in 1978, was incorporated in 1980, and has seven branch offices in Montana and Wyoming. Our mission is to provide services that are of the utmost quality and value for our client's benefit. In a client survey commissioned by WWC as part of our total quality management (TQM) program, our clients rated our services above our competitors in ***VALUE FOR THE DOLLAR***.

WWC is especially well positioned to support the City of Libby on this assignment because of our Montana presence and dam-focused technical experience. Our Helena office is located near the Montana Department of Natural Resources and Conservation Dam Safety Program's main office, allowing efficient coordination with DNRC staff on dam safety, design review, permitting, and regulatory compliance matters. WWC's Kalispell office provides a local field-support base for work in northwestern Montana, including rapid mobilization to Libby, field reconnaissance, survey coordination, construction observation, and timely response to site conditions during design and construction.

For more than 45 years, WWC has provided engineering services for dams, reservoirs, irrigation, hydraulic structures, and water resources projects. Our experience includes dam rehabilitation design, embankment and foundation evaluation, seepage and slope stability analysis, outlet works replacement, spillway improvements, toe drain and filter design, access improvements, construction administration, and emergency repair support. This depth of experience allows WWC to bring practical, constructible, and cost-conscious solutions to dam rehabilitation projects with compressed schedules and significant public-safety considerations.

WWC also has extensive regulatory experience with the Montana DNRC Dam Safety Program. Our engineers have supported dam safety evaluations, rehabilitation designs, construction permitting, inspection documentation, and coordination for regulated dams throughout Montana. This familiarity allows WWC to anticipate DNRC review expectations, prepare clear engineering documentation, and support the City through the technical and regulatory decisions necessary for successful project delivery. In addition to our technical and regulatory qualifications, WWC has substantial experience with funding programs for dam projects in Montana. Our team understands the importance of developing defensible project documentation, clear scopes of work, reliable opinions of probable cost, and reimbursement-ready records for projects involving state and federal assistance. WWC's experience with DNRC, Montana DES, FEMA-related funding, and other infrastructure grant and loan programs will help the City of Libby advance the Lower Flower Creek Reservoir project efficiently while maintaining compliance with applicable funding and procurement requirements.

Why WWC Is the Best-Qualified Firm

Selection Priority	WWC's Specific Qualifications and Project Benefit
Experienced Project Leadership	**Kevin Grabinski, P.E.** will lead WWC's effort for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Kevin is a Montana-licensed Professional Engineer with more than 20 years of experience in hydrology, hydraulics, water resources, geotechnical engineering, structural design, environmental work, irrigation infrastructure, dam design, dam rehabilitation, and high-hazard dam inspections. He has served as project manager, lead engineer, or design engineer on multiple dam and water resources projects and understands the technical, regulatory, and schedule demands associated with regulated dam work in Montana.
Local and Statewide Responsiveness	**WWC's Helena office** is located near the Montana DNRC Dam Safety Program's main office, allowing efficient coordination with DNRC reviewers on dam safety, permitting, technical documentation, and regulatory compliance. **WWC's Kalispell office** provides a nearby field-support base for work in Libby and northwestern Montana, improving our ability to mobilize quickly for site reconnaissance, survey coordination, field investigations, construction observation, and timely response to changing site conditions.
45+ Years of Dam and Water Resources Experience	**WWC has provided dams, reservoirs, irrigation, hydraulic structures, and water resources engineering services throughout Montana and the Rocky Mountain region for more than 45 years**. WWC's relevant experience includes earthen embankment dam rehabilitation, outlet works replacement, spillway improvements, toe drain and filter design, seepage evaluation, slope stability analysis, embankment and foundation characterization, access improvements, and construction administration.
Directly Relevant Dam Rehabilitation Projects	WWC's project history includes **Wilson Dam Rehabilitation, Jackson Dam, Doggett Dam, Deadman's Basin Terminal Outlet Replacement, Lake DeSmet Rehabilitation, Lake Hattie Outlet Works Rehabilitation, Ray Lake Dam Rehabilitation, Sand Hollow Creek Dam Emergency Repair, Glen Lake Dam, Costich Lake Dam, Eureka Reservoir, Lake Frances, Newlan Creek Dam and Petrolia Dam**. These projects demonstrate WWC's experience with earthen embankments, regulated dam rehabilitation, outlet structures, seepage and stability concerns, emergency/flood-related response, and construction-phase services.
Regulatory Experience with Montana DNRC Dam Safety Program	**WWC has extensive experience working with the Montana DNRC Dam Safety Program** on dam safety evaluations, five-year inspections, rehabilitation designs, construction permitting, engineer's reports, hazard classification applications, Emergency Action Plan and Operation and Maintenance Manual updates, and permit-condition compliance. This experience allows WWC to prepare clear, review-ready engineering documentation and anticipate DNRC technical expectations.

Selection Priority	WWC's Specific Qualifications and Project Benefit
Subsurface Investigation and Engineering Analysis Capability	**WWC's team includes experienced geotechnical, hydrologic/ hydraulic, structural, surveying, GIS, and construction administration personnel.** For this project, WWC can evaluate embankment and foundation conditions, coordinate boring or test pits, develop laboratory testing programs, assess seepage and groundwater conditions, support slope stability analyses, and develop practical repair/replacement recommendations.
Funding Program and Reimbursement Experience	**WWC has extensive experience with funding programs for dam and water infrastructure projects in Montana**, including projects involving DNRC, Montana DES, FEMA-related funding, grant and loan programs, and other public infrastructure funding sources. WWC understands the need for defensible scopes, clear cost documentation, reimbursement-ready records, procurement compliance, and well-organized technical deliverables.
Ability to Meet Compressed Schedule	**WWC is prepared to mobilize quickly under Kevin Grabinski's leadership** and assign the necessary dam engineering, geotechnical, survey, and construction support staff to meet the RFQ schedule. WWC understands that the city requires a draft repair/replacement engineering report within 60 calendar days of Notice to Proceed and project completion support through approximately October 15, 2026.

PROJECT UNDERSTANDING & CRITICAL SUCCESS FACTORS

WWC understands that the City of Libby is seeking a qualified dam engineering firm to provide investigation, analysis, design, and project management services for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. The RFQ identifies the purpose of the project as repair/replacement of flood-damaged reservoir components to restore the lower reservoir facility to pre-flood operational conditions. Because the project is being completed with state and federal disaster assistance, the work must be technically sound, constructible, schedule-responsive, cost-conscious, and documented in a manner that supports funding and reimbursement requirements.

The RFQ identifies the primary damage as flood overtopping of the northern retaining wall, which resulted in internal erosion of embankment materials and undermining of the outlet headwall extending toward the toe of the dam. The observed failure is located near the left, or northern, wingwall of the outlet spillway. The internal erosion is currently being mitigated through a combination of a reduced reservoir elevation achieved by removing checkboards on the spillway and protection at the downstream toe utilizing sandbags to increase the water level above a sandboil that developed during the December 2025 flood event. WWC understands that these conditions require a repair approach that evaluates both visible damage and potential subsurface concerns, including loss of embankment material, foundation support, seepage pathways, erosion susceptibility, and stability near the outlet headwall and northern wingwall. The principal repair area identified in the RFQ is the left/northern embankment, approximately 325 linear feet in length by 66 feet in width, with an additional 15 feet of apron width. The project also includes repair/replacement of apron areas at the southern end of the spillway and along a portion of the eastern wall, including approximately 50 feet by 15 feet of spillway apron width and approximately 20 feet by 15 feet of apron width along the eastern wall. WWC understands that these components must be evaluated together because the embankment, outlet headwall, spillway, apron areas, eastern wall, and adjacent foundation conditions function as an interconnected system. Seepage pathways exist from the eastern side to the western side of the spillway apron, and to the downstream toe of the embankment.

Access is also a defining project constraint. The RFQ anticipates that the city may install two access points crossing Flower Creek to provide construction access to the northern embankment, unless the engineer determines otherwise. WWC understands that the access approach will directly influence construction sequencing, temporary work, permitting, equipment selection, cost, and schedule. Accordingly, access planning must be integrated into the repair/replacement design rather than treated as a separate construction issue. The City's required schedule is compressed. The RFQ requires a draft repair/replacement engineering report within 60 calendar days of Notice to Proceed and a final engineering report within 15 calendar days after receipt of City comments. WWC understands that meeting this schedule will require rapid mobilization, early field verification, efficient subsurface investigation and laboratory testing, timely development of design parameters, and clear decision-making with the city. WWC has identified the following critical success factors for the project:

Critical Success Factor	WWC's Understanding and Response
Rapid mobilization and early field confirmation	The project schedule requires immediate action following Notice to Proceed. WWC will prioritize kickoff coordination, available records review, site reconnaissance, survey needs, and early confirmation of embankment, spillway, outlet, apron, and access conditions.
Accurate characterization of embankment and foundation conditions	The repair/replacement design must be based on an understanding of embankment materials, foundation conditions, and seepage pathways underneath and along/around the concrete spillway structure. WWC will develop a targeted investigation and testing approach to support engineering parameters for design, seepage evaluation, and slope stability analyses.
Focused geotechnical and hydraulic evaluation	Because the damage includes internal erosion and undermining near the outlet headwall and northern wingwall, the evaluation must consider seepage pathways, erosion susceptibility, foundation support, embankment stability, spillway/apron performance, and constructability of repair alternatives.
Practical and cost-conscious repair/replacement design	The recommended design must balance life expectancy, cost, schedule, access limitations, construction sequencing, and the city's need to restore operations. WWC will focus on solutions that are technically sound and realistic to construct within the required timeframe.
Access and construction logistics	The RFQ anticipates two access points crossing Flower Creek unless the engineer determines otherwise. Access planning will be a key element of design because it affects constructability, cost, schedule, permitting, and construction risk.
Regulatory and funding compliance and support reimbursement ready documentation	The project must comply with state and federal funding, procurement, conflict-of-interest, lobbying, and reimbursement requirements. WWC will maintain clear documentation of decisions, design assumptions, quantities, cost estimates, field observations, and construction-phase records.
Close coordination with the city and reviewing agencies	The City Administrator will be involved as the City's representative during design and construction. WWC will provide clear communication, concise decision points, and review-ready deliverables to support efficient City and agency coordination.
Compressed delivery schedule	The RFQ requires a draft repair/replacement engineering report within 60 calendar days of Notice to Proceed and a final report within 15 calendar days after receipt of City comments. WWC will structure the work plan around this schedule from the outset.

We understand that success will depend on addressing the specific flood-damaged embankment, outlet, apron, and access conditions identified in the RFQ while maintaining the schedule, cost control, constructability, and documentation standards required for a state and federally funded disaster recovery project. WWC will structure its approach around those priorities from the outset, so the city receives a defensible repair/replacement design, practical construction-phase support, and the documentation needed to restore the Lower Flower Creek Reservoir facility efficiently and responsibly.

QUALIFICATIONS OF PROFESSIONAL PERSONNEL

Included in this section are brief descriptions of the key employees that will be included as part of the Project Team. ***This team is highly experienced with dam rehabilitation evaluation and design, hydrologic and hydraulic design, structural design, surveying, environmental baseline studies and reports, and other engineering and surveying services needed for this project***. Only descriptions for key employees are included in this section. These staff would be supported by survey and drafting technicians, administrative specialists, and other staff from WWC's Montana offices. Detailed resumes are included in Appendix A. **Our team's experience far exceeds the 5-year requirement for federal/state funding program experience.**

KEVIN GRABINSKI, P.E., SENIOR ENGINEER; ROLE: PROJECT MANAGER, LEAD DAM ENGINEER

Kevin Grabinski, P.E. will serve as WWC's Lead Design Engineer and Project Manager for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Kevin is a Montana-licensed Professional Engineer with more than 20 years of experience in hydrology, hydraulics, water resources, geotechnical engineering, structural design, dam rehabilitation, outlet works improvements, DNRC dam safety evaluations, and construction administration. His experience includes regulated dam inspections, embankment and seepage evaluations, spillway and outlet structure improvements, hydraulic structure design, and construction-phase support for dam and irrigation infrastructure projects throughout Montana. He has worked on projects requiring coordination with dam owners, contractors, regulatory agencies, and funding partners, giving him the technical and management background needed for a compressed-schedule disaster recovery project. For this project, Kevin will direct the field investigation, engineering analyses, repair/replacement design, and coordination with the City of Libby, Montana DNRC, and other project stakeholders. He will manage schedule and budget performance, guide constructability and cost-control decisions, and oversee preparation of the engineering report, plans, specifications, cost estimates, and reimbursement-ready documentation needed to support state and federal disaster recovery funding requirements.

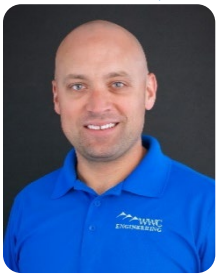
SHAWN HIGLEY, P.E., P.H., (PRINCIPAL); ROLE: QA/QC

Mr. Higley (MT P.E. 15101, AIH 1505) is a principal of WWC and serves as the firm's Director of Growth and Business Development. In this role, he provides senior leadership and controls company-wide resources to support successful project delivery across WWC's offices and technical disciplines. With more than 30 years of comprehensive experience on closely related dam, water resources, and infrastructure projects, Mr. Higley will provide senior project oversight and help ensure that WWC commits the personnel, technical expertise, and schedule resources necessary to complete the Lower Flower Creek Reservoir Embankment Disaster Recovery Project efficiently and cost-effectively. Mr. Higley has extensive experience with high-hazard dam issues and has worked on many of WWC's dam rehabilitation and evaluation projects as a QA/QC reviewer, project manager, or lead design engineer. He is an excellent communicator and has received awards and regional recognition for managing complex, controversial, and high-profile projects.

Our project team is experienced, professional, and adept at water resource engineering and surveying projects. We have extensive dam rehabilitation experience.

His work on Pit 3 Reservoir earned the National Mining Association's Reclamation Project of the Year Award in 2011. **Mr. Higley will provide primary QA/QC for this project.**

MATT SELVIG, P.E., SENIOR ENGINEER; ROLE: STRUCTURAL AND GEOTECHNICAL



Mr. Selvig (MT P.E. 32933) will serve as WWC's structural and geotechnical engineer for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Matt has more than 15 years of civil engineering experience, with extensive dam-related work involving geotechnical evaluation, embankment performance, slope stability, seepage considerations, hydraulic structures, outlet works, spillways, and structural repair concepts. His dam experience includes evaluating embankment and foundation conditions, developing geotechnical recommendations, performing slope stability and seepage-related analyses, and designing or assessing structural components associated with dam rehabilitation and hydraulic infrastructure. For this project, Matt will focus on the flood-damaged northern embankment, outlet headwall and wingwall area, spillway apron, eastern wall apron, foundation support conditions, and constructability of repair/replacement alternatives. His structural and geotechnical background will support development of durable, practical repairs that address both the visible damage and the underlying embankment, foundation, seepage, and structural conditions affecting long-term dam performance.

SCOTT DUNKELBERGER, P.E., SENIOR ENGINEER; ROLE: HYDROLOGY/HYDRAULICS AND GEOTECHNICAL

Mr. Dunkelberger (MT P.E. 48764) will serve as WWC's Hydrology and Hydraulics Engineer for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Scott has more than 15 years of engineering experience and has worked extensively on dam, water resources, irrigation, river, and hydraulic infrastructure projects throughout Montana and the Rocky Mountain region. His experience includes hydrologic analyses, hydraulic modeling, spillway evaluations, outlet works design, flood conveyance assessments, erosion protection measures, geotechnical evaluations, seepage analysis, slope stability analysis, and drainage improvements associated with dam rehabilitation and water resources projects. For this project, Scott will evaluate the hydraulic conditions contributing to the flood-related damage, assess spillway and outlet performance, and support development of repair measures for the northern embankment, outlet headwall area, spillway apron, and eastern wall apron. His experience with dam-related geotechnical and hydrology and hydraulics will help ensure the proposed repairs address both the immediate damage and the long-term performance and resilience of the Lower Flower Creek Reservoir facility.

WWC employs professional engineers, surveyors, and geologists along with environmental scientists. We can serve most, or all project needs in-house without requiring subconsultants.

JAKE ZISKA, P.L.S., CFEDS, E.I., SURVEYING MANAGER; ROLE: LEAD SURVEYOR

Mr. Ziska (MT P.L.S. 18636, CFedS #1513, MT E.I. 18639) has over 22 years of engineering and surveying experience on a variety of civil, environmental, water resources, municipal, and community projects. Jake has provided expert surveying services to the DNRC recently on the Ackley Lake and Nilan Reservoir boundary surveying projects. Mr. Ziska's unique qualifications, as a licensed surveyor and an engineer, allows WWC to save time and money for our clients by having Jake provide surveying and construction administration services. Mr. Ziska served as the examining surveyor for Broadwater County for over 5 years and is currently the examining surveyor for Blaine & Musselshell Counties. Mr. Ziska will serve as the lead surveyor for this project.

DREW PEARSON, E.S., HELENA BRANCH MANAGER; ROLE: SUPPORT ENGINEER

Mr. Pearson (MT E.S. 62631) will serve as a Project Engineer for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Drew has more than 18 years of experience in water resources, irrigation, and dam engineering and brings a well-rounded technical background spanning hydrology, hydraulics, geotechnical engineering, structural design, surveying, and construction support. Throughout his career, he has participated in the evaluation, design, and rehabilitation of numerous dams and hydraulic structures, including projects involving embankment performance, seepage concerns, spillway and outlet works improvements, slope stability evaluations, dam breach analyses, and hydrologic and hydraulic modeling. Drew is highly proficient with HEC-HMS, HEC-RAS, and other engineering tools used to evaluate runoff, flood routing, water surface elevations, and hydraulic performance. He has also served as a lead design engineer on multiple dam and water resources projects throughout Montana. For this project, Drew will support field investigation, engineering analyses, repair/replacement design, and construction-phase services, providing technical expertise across hydrologic, hydraulic, geotechnical, structural, and dam safety disciplines to help develop a practical and comprehensive solution for the Lower Flower Creek Reservoir facility.

WWC's project team is committed to providing the resources necessary to ensure that project deadlines are being met.

GREG JONES, P.E., KALISPELL MANAGER; ROLE: CONSTRUCTION ADMINISTRATION LEAD

Greg Jones (MT P.E. 88938) will lead construction administration for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Greg is a Professional Engineer with extensive experience providing construction administration, resident project representation, construction observation, contractor coordination, submittal and RFI review, pay application review, change order support, and documentation for public infrastructure projects. For this project, Greg will support the City of Libby during construction by coordinating with the contractor and design team, observing work for general conformance with the plans and specifications, documenting field conditions and quantities, supporting resolution of construction issues, and helping maintain the records needed for state and federal reimbursement and project closeout.

AMBER FRYDENLUND, SENIOR GRANT SPECIALIST; ROLE: GRANT REPORTING, ADMINISTRATION, COMPLIANCE

Ms. Frydenlund will serve as WWC's Grant Administration Specialist for the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. Amber has more than 20 years of experience assisting communities, water users, irrigation districts, and public agencies with grant writing, funding acquisition, grant administration, reimbursement requests, and regulatory compliance for infrastructure projects throughout Montana. Her experience includes administration of projects funded through FEMA, Montana Disaster and Emergency Services (DES), Montana Coal Endowment Program (MCEP), DNRC Renewable Resource Grant and Loan Program (RRGL), USDA Rural Development (RD), State Revolving Fund (SRF) programs, Bureau of Reclamation WaterSMART grants, ARPA funding, and numerous other state and federal funding sources. For this project, Amber will support funding compliance, reimbursement documentation, reporting requirements, procurement documentation, and coordination with funding agencies to help ensure the City of Libby maintains eligibility for state and federal disaster recovery assistance throughout the project.

ORGANIZATION CHART

Project Management	
Project Manager	Kevin Grabinski, P.E.

Quality Assurance/Quality Control	
QA/QC Lead	Shawn Higley, P.E.

Engineering Services	
Geotechnical Engineering/Embankment and Foundation Evaluation	Matt Selvig, P.E.; Drew Pearson, E.S.; Kevin Grabinski, P.E.
Structural Engineering	Matt Selvig, P.E.; Kevin Grabinski, P.E.
Hydrology & Hydraulics	Scott Dunkelberger, P.E.; Drew Pearson, E.S.; Kevin Grabinski, P.E.
Seepage Analysis	Matt Selvig, P.E.; Drew Pearson, E.S.; Kevin Grabinski, P.E.
Slope Stability Analysis	Matt Selvig, P.E.; Scott Dunkelberger, P.E.; Kevin Grabinski, P.E.
Spillway, Outlet Headwall, Wingwall, and Apron Repair Design	Kevin Grabinski, P.E.; Matt Selvig, P.E.; Scott Dunkelberger, P.E.; Drew Pearson, E.S.
Access Route/Flower Creek Crossing Evaluation	Scott Dunkelberger, P.E.; Drew Pearson, E.S.; Kevin Grabinski, P.E.
Final Design Plans & Specifications	Kevin Grabinski, P.E.; Matt Selvig, P.E.; Scott Dunkelberger, P.E.; Drew Pearson, E.S.
Bid Documents	Kevin Grabinski, P.E.; Drew Pearson, E.S.

Grant Administration Services	
Grant Reporting	Amber Frydenlund
Grant Compliance	Amber Frydenlund

Surveying Services	
Surveying	Jake Ziska, P.L.S., CFedS; Dave Collins, P.L.S.; Drew Pearson, E.S.

Environmental & Dam Safety Permitting	
Environmental Permitting	Matt Selvig, P.E.; Scott Dunkelberger, P.E.; Kevin Grabinski, P.E.
Dam Safety Coordination	Matt Selvig, P.E.; Scott Dunkelberger, P.E.; Kevin Grabinski, P.E.

Construction Administration Services	
Construction Inspection	Greg Jones, P.E.
Construction Staking	Jake Ziska, P.L.S., CFedS; Dave Collins, P.L.S.; Drew Pearson, E.S.
As-Built Drawings/Closeout	Greg Jones, P.E., Kevin Grabinski, P.E.

PRIOR PERFORMANCE ON SIMILAR PROJECTS

WWC has performed engineering and surveying services for design and rehabilitation of many high-hazard dams throughout Montana and Wyoming. The following section outlines WWC's qualifications and strengths with regard to performing engineering and surveying services for DNRC-regulated high-hazard dams. For the sake of brevity, this section only discusses in detail a few of these services to show WWC's related experience to the services outlined in the RFQ. Abstracts for these and other projects can be provided upon request.

Glen Lake Dam Outlet Works Rehabilitation, Lincoln County, MT

WWC provided engineering services for the Glen Lake Dam Rehabilitation Project, which included design of a complete replacement of the aging primary outlet works to improve dam safety, operational reliability, and long-term compliance with Montana DNRC Dam Safety Program requirements. The project included removal of the existing corrugated metal pipe outlet conduit and replacement with a new reinforced concrete arch pipe extending through the embankment to the downstream outlet channel. WWC also designed a new reinforced concrete intake structure to replace the degraded existing intake, incorporating dual stainless-steel slide gates, a secondary control chamber, reinforced concrete wingwalls and cutoff walls, a filter diaphragm to control seepage, and a custom-fabricated trash rack. The dual-gate configuration provides operational redundancy, improved flow control, safer operation from the intake walkway, and better capability for routine reservoir releases and emergency drawdown. The project demonstrates WWC's experience with regulated dam rehabilitation, outlet conduit replacement, reinforced concrete hydraulic structures, gate and trash rack design, constructible embankment outlet improvements, and coordination with the DNRC Dam Safety Program. **The Glen Lake Dam Rehabilitation Project is highly relevant because it involved regulated dam rehabilitation, outlet conduit replacement through an embankment, seepage control, reinforced concrete hydraulic structures, wingwalls, cutoff walls, and DNRC Dam Safety Program coordination. Like Lower Flower Creek, it required constructible repairs to critical outlet and embankment-related infrastructure to improve dam safety, operational reliability, and long-term regulatory compliance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2025-2026	Pending Fall 2026	Kevin Grabinski, Matt Selvig, Scott Dunkelberger, Drew Pearson, Shawn Higley	Glen Lake Irrigation District Rae Lynn Hays: (406) 261-9537

Costich Lake Dam Outlet Works Extension, Lincoln County, MT

WWC provided engineering services for the Costich Lake Dam Outlet Works Rehabilitation Project, which included design, permitting, and construction oversight for replacement of approximately 1,800 lineal feet of 32-inch SDR 26 HDPE outlet pipe from the dam toe to the outlet of Parsons Drop. The project improved the reliability and long-term performance of the dam outlet system by replacing aging infrastructure with durable, hydraulically efficient piping suitable for continued reservoir operations. WWC's services included development of construction documents, permitting coordination, technical support during bidding and construction, field

observation, contractor coordination, and documentation of completed improvements. The project demonstrates WWC's experience with regulated dam outlet rehabilitation, long-distance outlet conduit replacement, construction-phase services, permitting, and coordination of improvements tied directly to dam safety and reservoir operations. **The Costich Lake Dam Outlet Works Rehabilitation Project is relevant because it involved design, permitting, and construction oversight for replacement of critical outlet infrastructure that directly supports dam safety and reservoir operations. Similar to Lower Flower Creek, the project required development of constructible repair solutions, regulatory coordination, construction-phase services, and rehabilitation of aging dam components to improve long-term reliability and performance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2024	2024-2025	Kevin Grabinski, Matt Selvig, Scott Dunkelberger, Drew Pearson Shawn Higley, & Amber Frydenlund	Glen Lake Irrigation District Rae Lynn Hays: (406) 261-9537

Eureka Reservoir Dam Foundation Stability Project, Teton County, MT

WWC provided engineering services for the Eureka Reservoir Rehabilitation Project, which included design of seepage mitigation and dam safety improvements for the Main Dam. The project included design of approximately 1,200 linear feet of graded toe drain with perforated piping along the downstream toe to intercept seepage and reduce high uplift pressures; design of a toe berm over the drain to provide additional resistance to uplift pressures; and design of auxiliary spillway improvements and berms to direct flow away from the dam groin. WWC also supported phased implementation by preparing design documents and coordinating procurement and storage of selected materials for future construction. The project demonstrates WWC's experience with regulated dam rehabilitation, seepage interception, uplift pressure mitigation, toe drain and toe berm design, auxiliary spillway improvements, phased construction planning, and Montana DNRC dam safety coordination. **The Eureka Reservoir Rehabilitation Project is highly relevant because it involved regulated dam rehabilitation focused on seepage interception, uplift pressure mitigation, toe drain and toe berm design, and auxiliary spillway improvements. Like Lower Flower Creek, the project required practical dam safety improvements, DNRC coordination, phased implementation planning, and repair concepts tied directly to long-term embankment stability and hydraulic performance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2025	Pending Fall 2026	Kevin Grabinski, Matt Selvig, Scott Dunkelberger, Drew Pearson, Shawn Higley	Teton Coop Canal Company Jim Bouma: (406) 590-5375

Newlan Creek Dam Gate Rehabilitation, Meagher County, MT

WWC provided engineering and funding support for the Newlan Creek Reservoir Gate Rehabilitation Project near White Sulphur Springs, Montana. The project was developed to address DNRC Dam Safety Program permit conditions and improve the reliability of the reservoir's submerged upstream guardian gate, which was leaking approximately 7.1 cfs and could not be fully closed. The rehabilitation plans include inspection, cleaning, adjustment, and repair of the submerged guardian gate using a dive team; evaluation and replacement of the hydraulic cylinder and lines; installation of a battery-powered hydraulic motor to reduce manual gate operation requirements; construction of a new structure to house the hydraulic pump; extension of hydraulic lines from the existing crest vault to the new structure; and sealing of leaking joints within the existing outlet conduit. WWC assisted with development of the RRGL funding application and engineering scope for improvements intended to reduce water loss, improve reservoir operations, support irrigation water conservation, and maintain compliance with applicable federal, state, and local requirements. The project demonstrates WWC's experience with regulated dam outlet works rehabilitation, underwater gate inspection and repair, hydraulic gate systems, conduit leakage mitigation, DNRC coordination, and grant-funded dam improvement projects. **The Newlan Creek Reservoir Gate Rehabilitation Project is relevant because it involves grant-funded rehabilitation of critical dam outlet infrastructure, DNRC coordination, and constructible repairs to improve reservoir operations and dam safety. Like Lower Flower Creek, it required existing-condition evaluation, regulatory coordination, funding documentation, and practical repairs to support long-term facility reliability.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2025	Pending Fall 2026	Kevin Grabinski, Matt Selvig, Shawn Higley	Newlan Creek Water District Steve Buckingham: (406) 547-3676

Deadman's Basin Terminal Outlet Replacement, Wheatland County, MT

WWC was contracted to design an outlet works extension, a replacement terminal outlet structure, and seepage mitigation measures for Deadman's Basin located near Ryegate, MT. Deadman's Basin Reservoir and dam are owned by the State of Montana, Department of Natural Resources and Conservation (DNRC) and are operated by the Deadman's Basin Water Users Association. Deadman's Basin serves as an off-channel irrigation storage impoundment for water diverted from the Musselshell River through a supply canal into the southwest corner of the reservoir. Seepage had been historically observed exiting around the top of the outlet structure at Deadman's Basin, through exposed fractured bedrock planes immediately downstream of the existing terminal outlet on both side slopes of the outlet canal, and along the toe of the existing dam north of the outlet structure. The outlet works was designed to be extended 102 feet utilizing a precast concrete box culvert that discharged into a new terminal outlet structure designed based upon a PWD stilling basin. Seepage concerns were addressed with the construction of a filter blanket and two-stage toe

drain at the downstream toe of the dam, a toe berm to address the high uplift pressures, and an inclined two-stage filter diaphragm around the outlet. **The Deadman's Basin Terminal Outlet Replacement Project is highly relevant because it involved outlet works extension, replacement of a terminal outlet structure, and seepage mitigation measures, including a filter blanket, two-stage toe drain, toe berm, and inclined filter diaphragm around the outlet. Like Lower Flower Creek, the project required evaluation of seepage and outlet-related dam safety concerns, development of constructible repairs near critical outlet infrastructure, DNRC coordination, and design measures to improve long-term embankment stability and hydraulic performance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2009	2010	Shawn Higley, Kevin Grabinski, and Drew Pearson	Montana Department of Natural Resources and Conservation, (406) 444-6665

Wilson Dam Rehabilitation, Judith Basin County, MT

WWC provided engineering services for the rehabilitation of Wilson Dam to address deficiencies and bring the facility into compliance with Montana DNRC dam safety standards for high-hazard dams. The project included replacement of the principal spillway conduit with 30-inch reinforced concrete pipe, replacement of the irrigation outlet with 16-inch HDPE encased in flowable fill, construction of new inlet and outlet structures, installation of a drainage system, and construction of a concrete crest on the overflow spillway. WWC staff provided design, permitting, coordination with Montana DNRC, and construction management services, giving our team direct experience with regulated dam rehabilitation, outlet and spillway improvements, drainage improvements, constructible design, and agency coordination. **The Wilson Dam Rehabilitation Project is highly relevant because it involved regulated dam rehabilitation, outlet and spillway improvements, drainage improvements, DNRC coordination, and construction management services. Like Lower Flower Creek, the project required constructible design solutions for critical dam infrastructure to improve dam safety, long-term reliability, and regulatory compliance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2018-2019	2020-2021	Kevin Grabinski & Shawn Higley	Surprise Creek Hutterite Colony, Jake Hoefer: (406) 781-0507

Sand Hollow Creek Dam, Madison County, MT

WWC was contracted to provide engineering services to complete rehabilitation measures for Sand Hollow Creek Dam after significant damage occurred to the earthen embankment. Significant upgrades were required to bring the dam within State of Montana dam safety standards. The project included replacement of the outlet conduit, replacement of inlet and outlet structures, installation of a drainage system and enlarging the spillway channel. The work was completed in a single season to resume storage of

irrigation water. **The Sand Hollow Creek Dam Rehabilitation Project is highly relevant because it involved rehabilitation of a high-hazard dam to meet Montana DNRC dam safety standards, including outlet conduit replacement, new inlet and outlet structures, drainage improvements, and enlargement of the earthen spillway. Like Lower Flower Creek, the project required evaluation of dam safety deficiencies, development of constructible rehabilitation measures, and design of embankment-related improvements to improve long-term dam performance and regulatory compliance.**

Design Date	Construction Date	Key Personnel	Owner Information
2023	2023	Lewis Burton and Kevin Grabinski	Maichel Ranch, Dave Maichel: (406) 539-2306

East Boulder Mine Failure Mode Analysis, Sweet Grass County, MT

WWC was contracted to provide a simplified failure mode analysis of proposed tailings dam options for the Stillwater Mining Company's East Boulder Mine. The mine was in the process of a planned expansion that would require additional tailings impoundment consideration. WWC facilitated a simplified failure mode analysis which addressed possible failure modes for several proposed options for the expansion of the tailings dam facility. The work included planning and setup of the failure mode analysis session, facilitating the session, and preparing the final report for the Failure Mode Analysis. **The East Boulder Mine Tailings Dam Failure Mode Analysis is relevant because it involved systematic evaluation of potential dam failure mechanisms, seepage pathways, embankment performance, and risk-informed decision-making for a critical water-retaining structure. While focused on a tailings' facility rather than a water storage dam, the project demonstrates WWC's experience assessing dam safety concerns, identifying failure modes, and developing technically defensible recommendations to support rehabilitation and long-term facility reliability.**

Design Date	Construction Date	Key Personnel	Owner Information
2015	Not Applicable	Lewis Burton	Stillwater Mining Company: (406) 373-8700

Doggett Dam, Meagher County, MT

WWC was contracted to provide engineering services to complete rehabilitation measures for Doggett Dam. Improvements were required to bring the dam within State of Montana dam safety standards for high hazard dams. The project included installation of a drainage system in the downstream toe of the dam, installation of a new downstream control and division structure, installation of new measuring devices and rehabilitation and rock riprap lining of the emergency spillway outlet channel. The WWC staff members provided all design services required to obtain a construction permit from the State of Montana DNRC and all construction management services.

WWC conducted a previous design and construction management project on this dam which included lining the existing outlet conduit. **The Doggett Dam Rehabilitation Project is highly relevant because it involved rehabilitation of a high-hazard dam to meet Montana DNRC dam safety standards, including seepage control through installation of a downstream toe drain, spillway improvements, outlet works rehabilitation, and construction of new hydraulic control structures. Like Lower Flower Creek, the project required evaluation of embankment performance, development of constructible dam safety improvements, DNRC permitting and coordination, and construction management services to restore long-term reliability and regulatory compliance.**

Design Date	Construction Date	Key Personnel	Owner Information
2013-2014	2019	Kevin Grabinski, Lewis Burton	Jock Doggett: (406) 547-2190

Lake DeSmet Rehabilitation, Johnson County, WY

WWC was contracted to provide engineering services rehabilitation measures associated with Lake DeSmet. The lake has experienced severe sedimentation around the intake structure which has limited its functionality. WWC developed plans and specifications for the removal of the sediment and armoring of the existing intake, avoiding a total replacement. In addition, the lake experiences significant erosion along the shoreline from wave action. WWC developed slope protection and mitigation measures to minimize erosion from wave action and restore the integrity of the dam. The WWC Helena office peer reviewed the project calculations, plans and specifications and made comments that facilitated approval from the Wyoming State Engineer's Office Safety of Dams Program. **The Lake DeSmet Rehabilitation Project is highly relevant because it was an emergency, fast-tracked dam rehabilitation effort involving erosion-related damage to critical reservoir infrastructure, requiring rapid evaluation, design, and implementation of stabilization measures to restore long-term facility integrity. Like Lower Flower Creek, the project required development of practical and constructible repairs under an accelerated schedule, coordination with dam safety regulators, and preparation of engineering documents to address erosion concerns and maintain safe, reliable reservoir operations.**

Design Date	Construction Date	Key Personnel	Owner Information
2012	2013	Shawn Higley, Kevin Grabinski, Drew Pearson, Matt Selvig and Jake Ziska	Lake DeSmet Counties Coalition, (307) 674-2920

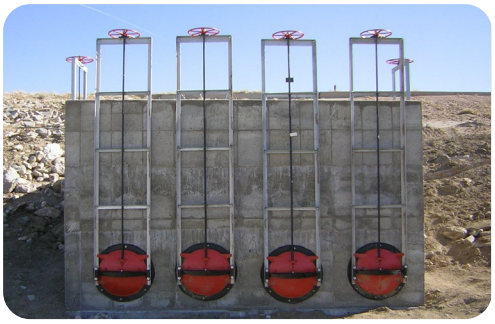
Moen Tailings Pond, Madison County, MT

WWC was contracted to provide engineering services to complete the design and construction management for improvements to the Moen Tailings dam. The improvements were required to increase the capacity of the tailings impoundment and meet State of Montana requirements for tailings impoundment structures. The project included raising the dam approximately 10 feet in elevation, the installation of stability berms, the construction of an HDPE pond liner, and the installation of a pump back system to direct water back to the processing plant for use. It also

included design of a runoff diversion around the abutment of the dam. The WWC staff members provided all design services required to obtain a construction permit from the State of Montana Bureau of Mines and all construction management services. Preliminary design was also completed on a new 100-foot-high tailings dam at the same site during this time period. **The Moen Tailings Dam Improvement Project is relevant because it involved embankment modifications, stability berm design, runoff diversion improvements, permitting, and construction management for a regulated dam structure requiring compliance with State of Montana requirements. Like Lower Flower Creek, the project required evaluation of embankment performance, development of constructible rehabilitation and stabilization measures, regulatory coordination, and oversight of construction activities to improve long-term structural stability and operational reliability.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2012	2012	Lewis Burton	Matt Moen: (406) 570-4445

Lake Hattie Outlet Works Rehabilitation, Albany County, WY



The Wyoming Water Development Commission and the Pioneer Canal/Lake Hattie Irrigation District contracted WWC for the rehabilitation of the outlet works and outlet conduits for Lake Hattie Dam, an irrigation water storage reservoir. The outlet conduit and intake structure were experiencing severe sediment accumulations due to wind movements as the intake for the outlet structure was originally placed at the downwind end of the reservoir in the direction of prevailing winds. WWC engineers developed a design for a new sediment resistant intake structure and a sediment cutoff wall within the reservoir to mitigate the effects of wind driven sediment accumulations. Specific services provided for this project included: sedimentation mitigation; intake and outlet works replacement design; cost estimates; permitting; and construction administration. The WWC Helena office peer reviewed the project calculations, plans and specifications and made comments that facilitated approval from the Wyoming State Engineer's Office Safety of Dams Program. **The Lake Hattie Outlet Works Rehabilitation Project is relevant because it involved design and rehabilitation of critical outlet works and intake infrastructure, permitting, construction administration, and coordination with dam safety regulators to restore reliable reservoir operations. Like Lower Flower Creek, the project required evaluation of existing deficiencies, development of practical and constructible rehabilitation measures, preparation of cost estimates and construction documents, and coordination with regulatory agencies to support long-term dam safety and performance.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2008	2009-2010	Shawn Higley and Kevin Grabinski	Wyoming Water Development Commission - Dave Moore: (307) 742-6738

Ray Lake Dam Rehabilitation, Fort Washakie, WY

WWC was contracted to conduct a geotechnical investigation on the existing Ray Lake Dam to determine if enlargement of the facility was possible. Engineers analyzed the existing soil conditions and developed multiple enlargement preliminary designs and dam replacement alternatives. The redesign included replacement of the dam outlet works; replacement of the dam embankment, increasing the dam height to 35 feet with a new storage of 7,000 acre-feet; and the addition of a new roller compacted concrete spillway. The WWC Helena office peer reviewed the project calculations, plans and specifications and made comments that facilitated approval from the Wyoming State Engineer's Office Safety of Dams Program. **The Ray Lake Dam Enlargement Study is highly relevant because it involved geotechnical investigation, embankment evaluation, outlet works replacement, spillway design, and development of dam rehabilitation alternatives to improve long-term dam safety and performance. Like Lower Flower Creek, the project required characterization of embankment and foundation conditions, evaluation of rehabilitation and replacement options, and preparation of engineering solutions for a regulated dam facility in coordination with dam safety regulators.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2009	2011	Shawn Higley, Kevin Grabinski and Drew Pearson	Shoshone and Northern Arapaho Tribes, Bureau of Indian Affairs Doug Ollerman: (406) 247-7467

Successive Dam Failures and Spillway Erosion Project, Various Counties, WY

WWC evaluated the potential for impacts from failure of multiple reservoirs in series within selected drainages in the Powder River and Tongue River watersheds. This study looked at four watersheds, selected by the Wyoming State Engineer's Office, which had several dams constructed in series. Hydrologic models (using HEC-HMS) were constructed to determine the minimum precipitation event that would cause one or more of the dams in a watershed to fail by overtopping. Then the effects of that failure on other dams in the same drainage and on downstream structures such as roads, railroads and buildings were modeled. Dry weather breaches were also simulated to determine the cumulative effects of such failures on downstream dams and other features. As part of this project each spillway was also evaluated to determine its susceptibility to failure by erosion. **The Reservoir Failure Impact Analysis Project is relevant because it involved hydrologic and hydraulic modeling of dam overtopping, breach scenarios, spillway performance, erosion susceptibility, and downstream consequences associated with dam failures. Like Lower Flower Creek, the project required evaluation of flood-related risks, assessment of dam and spillway performance under extreme conditions, and development of technically defensible analyses to support dam safety decision-making and long-term infrastructure resilience.**

Design Date	*Construction Date*	*Key Personnel*	*Owner Information*
2008	Not Applicable	Kevin Grabinski & Shawn Higley	Wyoming State Engineer's Office, Beth Mathisen, (307) 777-6148

In addition to these very relevant projects, WWC is performing ongoing safety of dam inspections for the following dams:

- Doggett Dam, Meagher County, MT
- Jackson Dam, Meagher County, MT
- Newlan Creek Dam, Meagher County, MT
- Eureka Reservoir, Teton County, MT
- Lake Francis, Pondera County, MT
- Swift Dam & Dike, Pondera County, MT
- Petrolia Dam, Petroleum County, MT
- Glen Lake Dam, Lincoln County, MT
- Costich Lake Dam, Lincoln County, MT
- Sand Hollow Creek Dam, Madison County, MT
- Wilson Dam, Judith Basin County, MT
- McKay Creek Dam, Powell County, MT

TECHNICAL APPROACH

TECHNICAL APPROACH TO SUBSURFACE INVESTIGATION

WWC understands that the subsurface investigation is one of the most important technical elements of the Lower Flower Creek Reservoir Embankment Disaster Recovery Project. The RFQ identifies flood overtopping, internal erosion of embankment materials, undermining of the outlet headwall extending toward the toe of the dam, and observed failure near the left/northern wingwall of the outlet spillway. These conditions require a focused investigation to characterize the embankment, foundation, seepage conditions, and materials affected by the flood damage, so the repair/replacement design is technically defensible, constructible, and appropriate for long-term dam performance.

WWC also understands that the City of Libby is currently soliciting geotechnical drilling, sampling, and testing services to support the engineering effort. WWC will coordinate closely with the city and the selected geotechnical drilling/testing contractor to confirm that the investigation program produces the information needed for repair design, seepage evaluation, slope stability analysis, cost estimating, construction planning, and reimbursement documentation.

Existing Data Review and Site Reconnaissance

Immediately following Notice to Proceed, WWC will review available background information, design drawings, flood damage documentation, survey data, photographs, geologic information, maintenance records, and any available information related to the outlet headwall, northern wingwall, embankment, spillway apron, eastern wall apron, and downstream toe. WWC will then complete a site reconnaissance to verify observed conditions, document recent changes to the visible damage, identify access limitations, evaluate potential investigation locations, and assist with coordinating the proposed subsurface investigation with the City and geotechnical contractor.

Embankment and Foundation Characterization

WWC's investigation approach will focus on understanding both the constructed embankment materials and the underlying foundation soils and/or bedrock, as required by the RFQ. The investigation will evaluate the character, extent, and variability of embankment fill; potential zones of erosion, voiding, softening, or loss of support; foundation conditions near the outlet headwall and wingwall; and the relationship between the embankment, spillway, apron areas, and eastern wall. This characterization will provide the basis for repair/replacement limits, excavation requirements, foundation preparation, seepage controls, backfill requirements, and structural support considerations.

Test Pits, Borings, and Sampling Plan

WWC will coordinate with the city and the selected geotechnical drilling/testing contractor to refine the boring and sampling plan. The final exploration program should target the flood-damaged northern embankment, outlet headwall and northern wingwall area, downstream toe, spillway apron, eastern wall apron, and proposed construction access routes. Borings will be located to confirm subsurface conditions in the most critical repair areas while also considering site access, construction sequencing, safety, and schedule. Sampling will be selected to obtain representative embankment and foundation materials for classification and engineering testing.

Laboratory Testing

Laboratory testing will be selected to develop the soil index and strength parameters needed for engineering evaluation and design. Anticipated testing may include moisture content, unit weight, grain size distribution, Atterberg limits where applicable, shear strength testing, and hydraulic conductivity testing where appropriate. These data will be used to characterize embankment and foundation materials, evaluate seepage and erosion susceptibility, support slope stability analyses, and develop design recommendations for backfill, filters, drainage features, foundation preparation, and compaction requirements.

Groundwater and Seepage Observations

Because the RFQ identifies internal erosion and undermining near the outlet headwall, WWC will place particular emphasis on groundwater and seepage observations, including historic tracer studies conducted by the City of Libby. Field observations will document seepage expressions, wet or softened zones, evidence of piping or material transport, perched water, foundation seepage, and conditions near the toe of the dam. Where appropriate, groundwater levels observed in borings will be documented and incorporated into the engineering analyses. These observations will help determine whether seepage control, drainage, cutoff, filter, or foundation treatment measures should be incorporated into the repair/replacement design.

Seepage Modeling and Slope Stability Analyses

WWC will use the subsurface geotechnical investigation results, laboratory testing, site observations, and available survey data to support seepage and slope stability evaluations. These analyses will be scaled to the project need and focused on the damaged northern embankment, outlet headwall/wingwall area, and related foundation conditions. The analysis will consider embankment geometry, material properties, groundwater/seepage conditions, potential erosion pathways, foundation support, and proposed repair configurations. The purpose of these analyses will be to verify that the recommended repair provides adequate stability, seepage control, and long-term performance while remaining constructible within the City's schedule and budget constraints.

Repair/Replacement Recommendations

The results of the subsurface investigation and engineering analyses will be used to develop practical repair/replacement recommendations for the northern embankment, northern headwall and wingwall area, spillway apron, eastern wall apron, gabion basket emergency spillway, and associated access improvements. Recommendations may address excavation limits, unsuitable material removal, foundation preparation, structural backfill, compaction, drainage, filter compatibility, erosion protection, concrete or structural repairs, temporary construction access, and construction sequencing. WWC will focus on recommendations that balance dam safety, constructability, cost, schedule, life expectancy, and disaster recovery documentation requirements.

GIS-Based Deliverables

WWC will provide GIS-based location data for completed investigation and repair-related work in a commonly compatible digital format, such as shapefile or geodatabase format, with the horizontal datum clearly identified. Deliverables may include boring locations, observed seepage or damage features, repair limits, access routes, construction features, and other relevant project data. These GIS-based deliverables will support design documentation, construction

coordination, agency review, reimbursement documentation, and future operation and maintenance records for the city.

PROJECT-SPECIFIC TECHNICAL APPROACH

WWC understands that the Lower Flower Creek Reservoir Embankment Disaster Recovery Project requires a focused and expedited engineering effort to evaluate flood-related damage, develop a technically defensible repair strategy, prepare construction documents, and support the City of Libby through implementation while maintaining compliance with applicable state and federal funding requirements. Our approach is designed to efficiently move from field verification and subsurface investigation through final design, construction support, and project closeout.

Task 1: Kickoff, Records Review, and Rapid Work Plan

Immediately following Notice to Proceed, WWC will conduct a project kickoff meeting with the city to confirm project objectives, communication protocols, schedule requirements, available information, and coordination procedures. WWC will review existing plans, available survey data, inspection reports, flood damage documentation, photographs, geotechnical information, and previous engineering data. Based on this review and an initial site reconnaissance, WWC will develop a rapid work plan that identifies investigation needs, design milestones, agency coordination requirements, and critical path activities necessary to meet the City's schedule.

Task 2: Survey, Base Mapping, and GIS Data

WWC will coordinate any additional survey and mapping activities needed to support the engineering evaluation and repair design. Survey information will be used to establish existing embankment geometry, spillway and apron elevations, outlet structure locations, access routes, and other critical site features. GIS-based mapping will be developed to support field investigations, engineering analyses, repair planning, and construction documentation. All mapping deliverables will clearly identify horizontal and vertical datums and be provided in formats compatible with the City's future asset management needs.

Task 3: Geotechnical Investigation and Laboratory Testing

WWC understands that the city is separately procuring geotechnical drilling, sampling, and testing services. WWC will coordinate closely with the selected geotechnical contractor to ensure that the investigation program provides the information necessary to evaluate the damaged embankment, outlet headwall and wingwall area, spillway apron, eastern wall apron, and foundation conditions. WWC will assist with development of boring locations, review field logs and laboratory results, evaluate material properties, and incorporate the findings into the engineering analyses and repair recommendations.

Task 4: Engineering Analyses

WWC will evaluate the field and laboratory data to characterize embankment and foundation conditions and assess the effects of the flood-related damage. Analyses may include seepage evaluation, groundwater assessment, erosion potential, hydraulic evaluation, and slope stability analyses as appropriate for the observed conditions. Particular emphasis will be placed on understanding the internal erosion and undermining identified near the outlet headwall and northern wingwall and determining the extent of repair or replacement necessary to restore long-term performance.

Task 5: Alternatives Screening and Recommended Repair Concept

Using the results of the field investigation and engineering analyses, WWC will develop and evaluate feasible repair alternatives. Alternatives will be screened based on constructability, life expectancy, cost, implementation schedule, access requirements, maintenance considerations, and consistency with dam safety objectives. WWC will work closely with the City to identify a preferred repair concept and establish the basis for final design. Recommendations will be supported by engineering analyses, cost considerations, and implementation requirements.

Task 6: Final Design, Drawings, Specifications, and Opinion of Probable Cost

Following selection of the preferred alternative, WWC will prepare final engineering documents for construction. Deliverables will include engineering drawings, technical specifications, construction sequencing recommendations, bid schedules, and an opinion of probable construction cost. The design package will address the northern embankment repair/replacement, outlet headwall and wingwall area, spillway apron and eastern wall apron improvements, erosion protection measures, and other supporting infrastructure required for successful implementation.

Task 7: Access Route and Temporary Crossing Design

The RFQ identifies access to the damaged northern embankment as a significant project consideration. WWC will evaluate the anticipated Flower Creek crossings above and below the reservoir, and other potential access routes needed to safely and efficiently construct the proposed repairs. This task will include consideration of temporary crossings, culverts, construction staging areas, equipment access requirements, environmental constraints, permitting implications, and restoration requirements. Access recommendations will be integrated into the overall repair design to minimize construction risk and cost.

Task 8: Permitting and Agency Coordination

WWC will coordinate with the city and applicable regulatory agencies throughout project development. This effort may include coordination with the Montana DNRC Dam Safety Program, Montana DES, FEMA representatives, and other local, state, or federal agencies as required. WWC will assist with preparation of technical documentation needed to support regulatory review and permit applications and will respond to agency comments during project development.

Task 9: Construction Administration and Field Support

WWC will provide construction administration and field support services during project implementation. Services may include preconstruction coordination, review of contractor submittals, responses to requests for information, construction observation, progress meetings, pay application review, change order support, documentation of field conditions, and coordination between the City and contractor. Construction services will be focused on helping the city achieve a successful repair while maintaining quality, schedule, and compliance objectives.

Task 10: FEMA/State/Federal Reimbursement Documentation

Because the project is being funded through disaster recovery assistance, WWC will maintain a strong focus on documentation and funding compliance throughout project delivery. WWC will coordinate with the City's funding representatives and grant administration staff to ensure that engineering decisions, design assumptions, field observations, quantities, cost estimates,

construction documentation, and project records are organized in a manner that supports reimbursement eligibility and project closeout requirements. This approach will help the city maximize funding compliance while minimizing administrative burden throughout implementation.

Emergency Communication Protocol

WWC will establish a project communication chain at kickoff that includes designated points of contact for the City, WWC, contractors, regulatory agencies, and funding representatives, with emergency issues communicated immediately by phone followed by written documentation. For construction-phase emergencies or conditions affecting dam safety, public safety, schedule, or project costs, WWC will notify the City immediately, coordinate with appropriate agencies as necessary, and provide timely recommendations to support rapid decision-making and response.

FAMILIARITY WITH FEDERAL REIMBURSEMENT REQUIREMENTS

WWC understands that the Lower Flower Creek Reservoir Embankment Disaster Recovery Project is being completed with state and federal disaster assistance funding that must also be supported by clear, complete, and defensible documentation that satisfies reimbursement, procurement, contracting, conflict-of-interest, lobbying, and recordkeeping requirements. WWC has extensive experience helping Montana communities, water users, irrigation districts, and public agencies deliver dam and water infrastructure projects funded through FEMA, Montana Disaster and Emergency Services (DES), DNRC, and other state and federal programs.

FEMA Disaster Recovery Documentation

WWC understands that FEMA-funded disaster recovery projects require documentation that clearly connects eligible disaster-related damage to the proposed scope of repair. For this project, WWC will support the city by documenting the observed flood damage, internal erosion near the northern wingwall and outlet headwall, embankment repair limits, apron repair areas, access requirements, design assumptions, construction quantities, and repair rationale. WWC will prepare engineering records that clearly distinguish the project need, proposed repair/replacement approach, and basis for construction costs.

Montana DES/DNRC Coordination Experience

WWC has extensive experience coordinating with Montana DES, DNRC, and other state agencies on dam, water resources, and publicly funded infrastructure projects. For the Lower Flower Creek Reservoir project, WWC will support coordination with Montana DNRC Dam Safety Program staff regarding dam safety expectations, technical coordination, design documentation, and construction considerations. WWC will also coordinate with Montana DES and funding representatives, as needed, to help align engineering deliverables with reimbursement documentation requirements, funding agency expectations, and project closeout needs.

2 CFR Part 200 Compliance

WWC understands that projects involving federal financial assistance must be administered in accordance with applicable Uniform Guidance requirements under 2 CFR Part 200. WWC will support the city by maintaining clear engineering documentation, assisting with scope definition, preparing defensible opinions of probable construction cost, documenting design changes, and supporting procurement and construction records needed for compliance. WWC's role will include producing engineering deliverables that help the city demonstrate reasonable cost, clear project purpose, technical necessity, and consistency between the approved scope and completed work.

Documentation

WWC will maintain a documentation approach that supports both engineering quality and reimbursement eligibility. During design, WWC will document site observations, subsurface investigation findings, design assumptions, alternatives considered, repair recommendations, quantities, and cost estimates. During construction, WWC will support documentation of field conditions, contractor progress, installed quantities, RFIs, submittals, pay applications, change orders, construction observations, and deviations from the original design when conditions require adjustment. This information will be organized to support construction administration, agency review, reimbursement requests, audit response, and final project closeout. WWC's familiarity with FEMA, Montana DES, DNRC, and other public funding programs allows our team to help the City of Libby deliver a project that is technically sound, cost-conscious, constructible, and well documented. By integrating reimbursement requirements into the engineering and construction workflow, WWC will help the city maintain compliance while advancing the project efficiently from design through construction completion.

AVAILABILITY AND RESPONSIVENESS

Following is a proposed schedule for completing the project. This schedule will be reassessed at the time an agreement is reached to complete the project, to ensure that all issues are addressed and meet the City's needs. It is our belief that the team we are proposing to assign to this project will be able to meet an accelerated time schedule as required. WWC would propose a meeting with the city to discuss the project schedule and the anticipated timeframes so that we can allocate resources to accommodate the accelerated schedule.

Task	Duration/Timing from Notice to Proceed	Key Deliverable
Notice to Proceed/Contract Authorization	Day 0	Authorization to proceed
Kickoff Meeting, Records Review, and Rapid Work Plan	Days 1–5	Confirm scope, schedule, communication protocol, available data, and critical path
Site Reconnaissance and Survey/Base Mapping Coordination	Days 3–12	Existing conditions documentation, base mapping, and GIS framework
Geotechnical Investigation Coordination	Days 5–20	Boring/test pit locations, sampling approach, and coordination with City-selected geotechnical contractor
Field Investigation, Sampling, and Laboratory Testing	Days 10–35	Field logs, samples, laboratory testing, and preliminary geotechnical findings
Engineering Analyses	Days 25–45	Seepage, stability, hydraulic, structural, and constructability evaluations
Alternatives Screening and Recommended Repair Concept	Days 35–48	Preferred repair/replacement concept and City decision point
Draft Engineering Report and Preliminary Design Package	Days 45–60	Draft repair/replacement engineering report submitted within 60 calendar days of NTP
City Review Period	To be completed by City	Consolidated City review comments
Final Engineering Report	Within 15 days after receipt of City comments	Final report addressing City comments
Final Drawings, Specifications, and Opinion of Probable Cost	Concurrent with final report /immediately thereafter	Bid/construction-ready documents
Permitting and Agency Coordination	Days 10–75, as required	DNRC, DES/FEMA, and other agency coordination documentation
Bidding/Contractor Coordination Support	After final design, as directed by City	Addenda, bid support, and contractor coordination
Construction Administration and Field Support	Through construction completion, targeting October 15, 2026	Submittal/RFI review, field observation, pay application support, change documentation, and closeout records
FEMA/State/Federal Reimbursement Documentation	Ongoing through closeout	Reimbursement-ready documentation of decisions, quantities, costs, field conditions, and construction records

WORKLOAD

WWC's proposed team for the city is comprised of a diversified group of professionals whose workloads have been designed to allow for time to be dedicated to new projects. WWC has company-wide resources of over 150 employees (including support staff) distributed among seven offices. WWC works collectively as a team and can utilize resources throughout the firm to tackle increased demands. WWC personnel are currently working on a number of projects across the state, which are similar in nature to the work proposed for the city. Our current workload currently includes:

The WWC project team has the capability and necessary resources to successfully complete projects within constrained timelines.

- Newlan Creek Dam Outlet Improvements, White Sulphur Springs, MT
- Eureka Dam Foundation Stability Mitigation, Choteau, MT
- Petrolia Dam Outlet Works Gate Replacements, Winnett, MT
- Glen Lake Dam Outlet Works Replacement, Eureka, MT
- North Chinook Irrigation Dam Outlet Replacement, Chinook, MT
- Newlan Creek Five-Year Safety Evaluation, White Sulphur Springs, MT
- Flower Creek Five-Year Safety Evaluation, Libby, MT
- Wilson Dam Five-Year Safety Evaluation, Stanford, MT
- McKay Creek Dam Five-Year Safety Evaluation, Avon, MT

As the following chart shows, the water resources professionals to be assigned to this project have sufficient time to get projects done in a short timeframe and within budget. The time required for the individuals listed below to complete their current work assignments is factored into the following chart. WWC will commit the resources necessary to fulfill City obligations.

Employee	Current Total Workload	Total Availability for City of Libby
Kevin Grabinski, P.E., Project Manager	60%	40%
Shawn Higley, P.E., P.H., QA/QC Lead	50%	50%
Matt Selvig, P.E., Structural & Geotechnical	60%	40%
Scott Dunkelberger, P.E., H/H & Geotechnical	60%	40%
Jake Ziska, P.L.S., CFedS, E.I., Lead Surveyor	70%	30%
David Collins, P.L.S., Biologist, Surveyor	60%	40%
Drew Pearson, E.S., Project Engineer/Surveyor	50%	50%
Greg Jones, P.E., Construction Administration	60%	40%
Amber Frydenlund, Grant Specialist	70%	30%

SOLVING Problems and DELIVERING Value

Based on current local resources and projected workloads, WWC could easily undertake and commit the resources necessary to assist the city with the proposed Lower Flower Creek Reservoir Embankment Disaster Recovery Project.

WWC has established comprehensive contingency plans to address unanticipated staffing and resource challenges, ensuring the seamless progression of projects. These plans are underpinned by the firm's substantial staff depth, the longstanding collaboration among team members, and a steadfast commitment to maintaining core personnel throughout project lifecycles.

Contingency Plans for Unanticipated Staffing and Resourcing Issues

WWC's contingency strategies are designed to mitigate potential disruptions due to unforeseen staffing shortages or resource constraints. Key components of these plans include:

1. **Proactive Workforce Planning:** WWC identifies critical roles within each project and assesses potential risks associated with staffing these positions. This foresight enables the firm to develop strategies for rapid response if key personnel become unavailable.
2. **Talent Pipeline Development:** WWC maintains a pool of pre-vetted candidates and fosters relationships with staffing agencies to expedite the recruitment process when unexpected vacancies arise.
3. **Cross-Training Initiatives:** WWC invests in cross-training employees across various disciplines, enhancing flexibility and ensuring that team members can seamlessly step into different roles as needed.
4. **Rapid Hiring Processes:** Streamlined procedures for screening, background checks, and onboarding are in place to facilitate the swift integration of new staff without compromising quality or compliance.
5. **Utilization of Contingent Staffing:** In scenarios where immediate staffing is critical, WWC leverages contingent staffing solutions, bringing in temporary professionals to maintain project momentum.

Depth of Staff and Team Collaboration

With a robust team of nearly 150 professionals, including engineers, geologists, surveyors, and environmental scientists, WWC boasts a diverse and experienced workforce. Many team members have collaborated for over a decade, fostering strong professional relationships and a cohesive working environment. This depth and stability enhance the firm's capacity to manage complex projects and adapt to unforeseen challenges effectively.

Commitment to Core Personnel

WWC places significant emphasis on the active involvement of core personnel in all project phases. These key individuals lead and perform specific task activities, ensuring consistency and quality. WWC is dedicated to maintaining the assigned project team throughout the project's duration. Any proposed changes to staff or task delegations are subject to prior approval by the City of Libby, reflecting WWC's commitment to transparency and client collaboration.

ABILITY TO MEET TIME & BUDGET REQUIREMENTS

TIME

The WWC team has sufficient staff to complete projects within a short timeframe. Our vast experience in dam engineering, the development of preliminary engineering reports, and the preparation of grants and knowledge of grant funding requirements will expedite the process and provide the city with the best possible services. WWC's project team fully understands the terminology "time is of the essence." At WWC, project schedules are more than mere targets or approximate dates. WWC's employees utilize a time-integrated management approach that ensures our workforce understands how much time is needed to complete each task, when each task must be finished and what work needs to be performed to complete each task. Utilizing this time integrated management approach, WWC projects are typically completed well ahead of schedule. This schedule management process can be accelerated by inserting more resources into the project as the process allows ease of tracking and management of resources by the project manager.

WWC utilizes a time integrated management approach that ensures our workforce understand what work needs to be performed, when each task must be finished, and how much time is needed for each task.

References:
James Brower – Lower Yellowstone Irrigation Project (406) 433-1306
Heather Rice – Pondera County Canal & Reservoir Co. (406) 505-0872
Kristal Fox – Fort Belknap Irrigation Project (406) 353-8466
Megan Edwards – Glasgow Irrigation District (406) 228-2346
Leon Hammond – Deadman's Water Users Association (406) 220-2093
Lynn Rettig – Delphia Melstone Water Users Association (406) 947-3131

BUDGET

It is important on any project not only to meet deadlines, but to also ensure that the project stays within budgetary constraints. The WWC staff are always looking for ways to save money and provide extra value for our clients, because every dollar saved leads to client satisfaction and contributes to their ability to fund future projects. WWC will provide the city with all viable project alternatives and cost estimates for each alternative so that the city can make the most cost-effective decision while maximizing the benefits of each project. WWC professionals are very familiar with the funding constraints of projects and have repeatedly demonstrated the ability to develop innovative and cost-effective solutions. Using programs such as Microsoft Project® with links to WWC's accounting software and close interaction with the project workforce, project managers can carefully monitor the amount of time and money being spent on each successive task to ensure that work performed for the city is being performed efficiently and within budgetary constraints.

WWC strives to keep project costs down through efficiency and the ability to develop innovative and cost-effective alternatives.

References:
Erling Juel, Greenfields Irrigation District (406) 467-2533
Pat Byrne, Clinton Irrigation District (406) 240-6230
Sharon Foster – Helena Valley Irrigation District (406) 442-3292
Tim Sauer, Bureau of Indian Affairs (406) 657-6265
Jim Bouma, Teton Coop Canal Company (406) 590-5375
Carl Saunders, Grass Valley French Ditch Company (406) 544-5488

REFERENCES

Project Name	Client Name and Address	Contact Name and Phone Number
Glen Lake Dam Rehabilitation	Glen Lake Irrigation District PO Box 297, Eureka, MT 59917	Rae Lynn Hays (406) 261-9537
Costich Lake Dam Outlet Works Rehabilitation	Glen Lake Irrigation District; PO Box 297, Eureka, MT 59917	Rae Lynn Hays (406) 261-9537
Newlan Creek Reservoir Gate Rehabilitation	Newlan Creek Water District 859 Highway 360 White Sulphur Springs, MT 59645	Steve Buckingham (406) 547-3676
Eureka Reservoir Rehabilitation	Teton Coop Canal Company PO Box 371, Choteau, MT 59422	Jim Bouma (406) 590-5375
Wilson Dam Rehabilitation	Surprise Creek Hutterite Colony PO Box 310, Stanford, MT 59479	Jake Hofer (406) 781-0507
Sand Hollow Creek Dam Rehabilitation	Maichel Ranch PO Box 154, Harrison, MT 59735	Dave Maichel (406) 539-2306
East Boulder Mine Failure Mode Analysis	Stillwater Mining Company/Sibanye Stillwater PO Box 1330, Columbus, MT 59019	Stillwater Mining Company (406) 373-8700
Doggett Dam Rehabilitation	Jock Doggett-Camas Creek Cattle & Sheep Co 1815 Highway 360 White Sulphur Springs, MT 59645	Jock Doggett (406) 547-2190
Lake DeSmet Rehabilitation	Lake DeSmet Advisory Board Johnson County Commission 76 N. Main St., Buffalo, WY 82834	Paul Mavrakis (307) 674-2920
Moen Tailings Pond	Matt Moen Moen Builders, Inc. 96 Prospect Mine Rd/PO Box 33 Virginia City, Mt 59755	Matt Moen (406) 570-4445
Lake Hattie Outlet Works Rehabilitation	Wyoming Water Development Commission 6920 Yellowtail Rd, Cheyenne, WY 82009	Dave Moore (307) 742-6738
Ray Lake Dam Rehabilitation	Shoshone and Northern Arapaho Tribes/Bureau of Indian Affairs Wind River Agency PO Box 158, Fort Washakie, WY 82514	Doug Ollerman (406) 247-7467
Successive Dam Failures and Spillway Erosion Project	Wyoming State Engineer's Office Herschler Building East 122 W. 25th St., Cheyenne, WY 82001	Beth Mathisen (307) 777-6148
Deadman's Basin Terminal Outlet Replacement	Montana Department of Natural Resources and Conservation 1424 9th Ave/PO Box 201601 Helena, MT 59620-1601	Montana DNRC (406) 444-6665

REQUIRED STATEMENTS AND CERTIFICATIONS

Unresolved Audit Exceptions

WWC has no unresolved audit exceptions relative to engineering services or otherwise.

Debarment Certification

WWC certifies that neither the firm nor any of its principals, employees, or subconsultants proposed for this project are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in federally funded transactions by any federal department or agency.

Conflict-of-Interest Disclosure

WWC certifies that no actual or apparent conflict of interest exists with respect to the services contemplated under this solicitation per 2 CFR 200.112. WWC will immediately disclose to the City of Libby any circumstance that may create a real or perceived conflict of interest during the course of the project and will take all necessary actions to ensure compliance with applicable local, state, and federal requirements.

Lobbying Certification

WWC certifies that no federally appropriated funds have been paid or will be paid by or on behalf of WWC to any person for influencing or attempting to influence an officer or employee of any federal agency, member of Congress, or employee of a member of Congress in connection with the awarding of any federal contract, grant, loan, or cooperative agreement associated with this project. WWC will comply with all applicable federal lobbying certification and disclosure requirements.

MBE/WBE/DBE Status Statement

WWC is not certified as a Minority Business Enterprise (MBE), Women Business Enterprise (WBE), or Disadvantaged Business Enterprise (DBE). WWC supports equal opportunity participation in public contracting and will comply with all applicable nondiscrimination and equal opportunity requirements associated with this project.

Public Information Acknowledgement

WWC understands and acknowledges that materials submitted in response to this Request for Qualifications may become public records and may be subject to disclosure in accordance with applicable Montana public records laws and regulations. Any information considered confidential or proprietary will be clearly identified; however, WWC recognizes that the City of Libby retains sole authority regarding disclosure obligations under applicable law.

Commitment to Procurement Compliance

WWC is committed to full compliance with all applicable local, state, and federal procurement requirements associated with this project. WWC understands the requirements related to federally funded projects, including applicable provisions of 2 CFR Part 200, procurement standards, contract administration requirements, record retention requirements, and other state and federal funding conditions. WWC will support the City of Libby in maintaining compliance throughout project development, design, construction, reimbursement, and project closeout.

Appendix A - Resumes

KEVIN GRABINSKI, P.E.

ENVIRONMENTAL DEPARTMENT MANAGER

ABOUT ME

Kevin Grabinski is a Civil and Environmental Engineer with over 19 years of Civil/Water Resources experience. Kevin has a multitude of project experience in hydrology, hydraulics, and water resources; land development; oil and gas development; structural design; storm water treatment; regulatory permitting; water/wastewater treatment, environmental and irrigation. Mr. Grabinski's graduate studies contained drinking water, wastewater, geotechnical, and environmental remediation course emphases.

PROFESSIONAL EXPERIENCE

December 2022 - PRESENT	• Environmental Department Manager, WWC Engineering, Helena, MT
2007 - December 2022	• Civil/Environmental Engineer, WWC Engineering, Helena, MT
2005 - 2007	• Research Assistant, Montana State University, Bozeman, MT
Summers 2000 - 2004	• Engineering Intern, TLC Engineering, Libby, MT
1998- 2000	• CADD Operator, TLC Engineering, Libby, MT

EDUCATION

Master of Science
Environmental Engineering
Montana State University, 2007

Bachelor of Science
Civil Engineering
Montana State University, 2004

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL ENGINEER

Montana No. 16822
Florida No. 91625

MINE SAFETY HEALTH ADMINISTRATION TRAINING

MSHA #03692

SPECIALIZED TRAINING

- PEC Safeland & TRAP Basic Safety Awareness Orientation
- OSHA 10 Construction
- 40-hr OSHA Hazwoper Training
- 8-hr OSHA Hazwoper Refresh
- Fall Protection Certified
- First Aid & CPR/AED Certified

SPECIALIZED TRAINING CONT'D

- HEC-RAS Floodplain Modeling
- 156-hr Emergency Medical Technician National Registry Certification
- State of Montana Licensed AEMT
- 40-Hour NFPA 1670 Compliant Rope Rescue Technician
- Confined Space Entry
- NFPA 1670 Compliant Swiftwater Rescue Technician

PROJECT EXPERIENCE

ENERGY SERVICES

Led the development and engineering of a satellite in-situ uranium processing facility, including civil site design and structural engineering, while coordinating project management across process engineering, wastewater treatment, resin transfer systems, and mechanical and electrical disciplines. Supported phased facility development and construction administration for the client.

Led the engineering and design of a centralized water reuse facility serving multiple oil and gas fields, including civil site planning, hydrology and hydraulics, geotechnical and structural design, and pump design. The project included three lined produced water storage ponds, oil skimming units, raw water supply from the Colorado River, a pump station with two 2,000 hp multi-stage pumps, and an office building. Coordinated permitting with Mesa County, the Colorado Oil and Gas Conservation Commission, the Colorado State Engineer's Office, and the Colorado Department of Public Health and Environment, and supported bid administration, construction inspection, and construction phase services.

PROJECT EXPERIENCE

ENVIRONMENTAL ENGINEERING

Lead design engineer for multiple new and retrofitted wastewater lift stations in Montana. Duties involved the analysis and design for the flow rates, pump sizing and selection, force main design, wet well design, and lift station building design. Performed the analysis and design of aerated lagoon, UV disinfection, and direct discharge to surface water after treatment. Performed water quality analyses for direct discharge of treated effluent to the Missouri River and permitted the MPDES discharge through MT DEQ. Lead design engineer for a new utility district utilizing a membrane bioreactor (MBR) for wastewater treatment that discharged treated effluent into a lined storage pond for reclaimed grey water uses that also provided fire flow capacity for a commercial district.

Conducted multiple Phase I and Phase II Environmental Site Assessments for properties within Montana. Report preparation included searching records databases for the known or likely presence of any hazardous substances, and report writing for an EPA-compliant Phase I study for various commercial, industrial, and agricultural properties. Lead environmental engineer working with economic development districts on Brownfields projects providing oversight for the abatement of building hazardous materials including asbestos, lead-based paint, PCBs, mold, and mercury containing devices.

Served as a Lead NEPA writer for multiple Environmental Assessments (EA)s. Performed water treatment studies for two hard rock mines in Montana. The studies evaluated the current treatment system, future MPDES discharge limits, and treatment technologies to determine which equipment options could reliably and cost-effectively provide enhanced clarification, nitrogen reduction and total-recoverable metals reduction to meet permit limits and mine target concentrations.

Project manager for multiple environmental remediation projects to remove hazardous building materials (HBMs) from existing buildings prior to demolition or renovation to support new uses for the building or site. Projects have included the abatement of HMBs including asbestos containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs) and mercury containing devices. Notable projects have completed abatement to facilitate renovations for the One Health clinic and low incoming housing in the historic Crowley building in Lewistown, and for the demolition of the contaminated Nelson Dairy Farm at the Montana State University (MSU) campus to facilitate the development of MSU's Innovation Campus which is bringing together students with high-tech companies to perform cutting-edge research in state-of-the-art facilities.

STORM WATER TREATMENT

Performed an evaluation of an existing city storm water management system including assessments of existing surface and subsurface infrastructure, potential pollution source areas and sediment accumulations, and storm runoff water quality. Created water quality models to predict in-stream concentrations for contaminants of concern and to recommend preferred BMP alternatives. Provided recommendations for operation & maintenance procedures, sediment removal, curb & gutter construction, source controls and alternative BMPs to improve water quality of storm water runoff. Designed hydrodynamic devices for existing storm water systems to capture sediments, heavy metals, hydrocarbons, trash, and debris to reduce the pollutant load to downstream receiving waters. Performed construction oversight during construction of improvements.

IRRIGATION

Designed both open-channel and pressurized lateral conveyance systems for large irrigation systems. Designed irrigation pivots as part of EQIP on-farm improvement projects. Designed metal truss bridges with foundations to allow irrigation pivot towers to cross irrigation ditches. Performed a detailed inventory for an irrigation company covering 6,650 acres of irrigated land making assessments of pump stations, canals, laterals, check stations, wasteways, siphons, and turnouts. Performed a detailed analysis of dam operations at Canyon Ferry Reservoir in Montana to look at the potential impacts from irrigation on dam releases, reservoir elevations, and power generation for over 60 years' worth of historical data.

DAMS

Lead design engineer for multiple earthen dam rehabilitation projects which included slope stability and seepage analysis with GeoStudio, filter blanket and filter diaphragm design, toe buttress design, outlet conduit extension, and outlet structure design, safety of dams report, construction drawings, cost estimate, and bid package. Outlet structure included calculation of soil and water pressures, analysis of global stability of the structures, and reinforcement design for the concrete walls, foundations, and slabs. Performed construction oversight during construction.

Performed DNRC required five-year inspections for nine high-hazard dams located in Montana. Inspections and reports include assessments of the embankment, outlet conduit and structure, gate and trash rack conditions, spillways, freeboard, embankment and crest vegetation and armoring, piezometer levels, seepage, operations and maintenance manuals & records.

Design engineer for a new dam to create a reservoir to provide 49 acre-feet of regulating storage within the central portion of a large irrigation district to improve delivery for peak demands in a timely manner while conserving excess water that would otherwise be wasted. The dam included a low-level outlet with a control gate, a primary spillway through the outlet conduit and an emergency spillway. The spillways were designed for the peak flow of the 100-year, 24-hour storm event while conveying the peak irrigation base flow. The outlet design included an cast-in-place USBR Type VI energy dissipator with riprap to armor the downstream channel.

STRUCTURAL ENGINEERING

Design engineer for 26-foot-tall retaining walls adjacent to a pump station on the Yellowstone River located in Prairie County. Elements of the design included calculation of soil and water pressures and reinforcement design for the concrete walls and foundations with tie-back anchors to support the retaining walls and provide an economical solution for a high retaining wall.

SHAWN T. HIGLEY, P.E., P.H., CFM

DIRECTOR OF MARKETING AND BUSINESS DEVELOPMENT

ABOUT ME

Shawn Higley has more than 30 years of experience in transportation, environmental, water resources, and municipal engineering. Mr. Higley provides oversight for all the Montana Branches of WWC in planning, water/wastewater design, land development, construction, GPS surveying, and materials testing. He currently serves as the Helena Branch Manager. Some of the projects Mr. Higley has been involved with include irrigation projects; highway design; geotechnical analysis; subdivision design and permitting; dam, check structure, and drop structure design; bridge scour analyses; natural gas water discharge/piping design, layout, permitting and cradle-to-grave water handling; river/stream channel assessments; bank stabilization/ stream restoration; numerous construction contract documents; composition of regulatory permit-to-mine applications; hydrologic and hydraulic analyses; channel restoration design and reconstruction; GPS and conventional surveying; groundwater modeling and hydrogeologic investigation; AVF and wetland delineation/ mitigation; as well as serving as an expert witness on numerous court cases.

PROFESSIONAL EXPERIENCE

Februrary 2026 - Present	• Director of Marketing and Business Development, MT
2004 - February 2026	• Helena Branch Manager, WWC Engineering, Helena, MT
2000 - 2004	• Civil/Water Resources Department Manager, WWC Engineering, Sheridan, WY
1996 - 2000	• Staff Engineer, WWC Engineering, Sheridan, WY
1995 - 1996	• Commissioner/Hydrographer, State of Wyoming, State Engineer's Office, Laramie, WY
1992, 1994	• Project Representative Internship, TSP Two, Inc., Sheridan WY
1989, 1991, 1993	• Project Inspector, Wyoming Department of Transportation, Sheridan, WY

EDUCATION

Master of Science
Civil Engineering
University of Wyoming, 1996

Bachelor of Science
Civil Engineering
University of Wyoming, 1993
Tau Beta Pi, 1992

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL ENGINEER
Wyoming No. 8527
Kansas No. 15731
Idaho No. 10277
Utah No. 4975964
Montana No. 15101
North Dakota No. 7095
New Mexico No. 20878
Nevada No. 021736
Colorado No. 0047398
Texas No. 117677
Florida No.PE 89622
North Carolina No. 054951

PROFESSIONAL HYDROLOGIST
AIH No. 1505

NRCS TECHNICAL SERVICE PROVIDER
TSP #03-2246

CERTIFIED FLOODPLAIN MANAGER
ASFPM #US-16-09540

SPECIALIZED TRAINING
- Transient Pipeline Hydraulics
- HEC-RAS

SPECIALIZED TRAINING CONT'D
- HEC-HMS
- WMS
- MODFLOW/GW Vistas
- Certified MSHA Impoundment Inspector
- Water Specialized Training- USDA Conservation Planning
- First Aid/CPR Certified
- OSHA 10 Basic
- Wetland Delineation

GRANT FUNDING
RRGL Grant Reviewer for DNRC in 2008, 2010, 2012, 2014, 2016, 2018, & 2020, 2022, 2024.

Preparation of Numerous Grant Applications to: DNRC-RRGL, IDG, RDGP, & HB223, DOC TSEP & CDBG; SRF; RD; WRDA, MDT-CTEP; MTFWP-RTP; FEMA BRIC, HMGP & PDM, BOR-WaterSMART, EPA Brownfields

PLANNING SERVICES
- City of Townsend Floodplain Administration
- City of East Helena Floodplain Administration
- Town of Neihart Floodplain Administration
- Town of Culbertson Floodplain Administration
- Blaine County Floodplain Administration
- City of Chinook Floodplain Administration
- City of Harlem Floodplain Administration
- Town of Whitehall Floodplain Administration

PROFESSIONAL MEMBERSHIPS
Wyoming Engineering Society (WES)

Assoication of Montana Floodplan Managers (AMFM)

Montana Association of Dams & Canal Systems

Montana Association of County Road Supervisors (MACRS)

Montana Petroleum Association (MPA)

Montana Mining Association (MMA)

Montana League of Cities and Towns (MTLCT)

PRESENTATIONS AND PUBLICATIONS
Numerical Simulations and Groundwater Storage Relationships within the Muddy Creek Aquifer System, 1993

PROJECT EXPERIENCE

ENVIRONMENTAL ENGINEERING

Involved in a multitude of Environmental Assessments (EAs) and Environmental Impact Statements (EISs) over the past 25 years. Most recently Mr. Higley has been involved with the review of the Bureau of Reclamation's (BOR) Lower Yellowstone Irrigation Intake Diversion Dam Fish Passage Project EIS and has provided comments to the BOR & USCOE on behalf of the Yellowstone Irrigation Project. Geotechnical lead for the Montana Resources Yankee Doodle Tailings Dam Enlargement EIS; Lead reviewer in the development of an Environmental Assessment for newly formed Avalanche Irrigation District that will cover the creation of more than 10,000 new irrigated acres, and 1,000 existing acres that are currently irrigated from groundwater wells and surface water flows within two separate creeks that will be will be converted to a direct water supply from Canyon Ferry Lake; Technical lead for various sections of numerous NEPA compliance documents working as a third-party contractor for various federal agencies, including the Bureau of Land Management and US Forest Service.

Assisted in the preparation of Phase I, Phase II and Phase III Environmental Site Assessments for various commercial, industrial and agricultural properties. Assumed lead role in multiple Voluntary Clean-up actions within Wyoming and Montana.

Superfund assessments and clean-up work within the Butte Priority Soils Operable Unit to assist in meeting regulatory requirements for water quality.

MUNICIPAL ENGINEERING (WATER, WASTEWATER, AND STORM WATER SERVICES)

Lead designer or project manager on a wide variety of water, wastewater, and storm water projects throughout the Rocky Mountain West. Water projects include groundwater supply and disinfection, water availability studies, surface water intake and treatment processes, water distribution system modeling & design, conventional treatment processes, ion-exchange treatment, reverse-osmosis treatment, filtration treatment, and water conservation.

Wastewater projects include design of lagoon systems, Membrane BioReactor (MBR) systems, Advantex systems, Eliminite Systems, Santec systems, conventional treatment systems, gravity collection systems, lift stations, force mains and step systems.

Storm water project design includes conventional curb & gutter and inlet systems, infiltration galleries, detention/retention ponds, routing structures, hydrologic assessments for pre- and post-development conditions and hydraulic modeling.

IRRIGATION/WATER RESOURCES ENGINEERING, HYDROLOGY, AND HYDRAULICS

Irrigation design, permitting, automation and maintenance. Have assisted irrigation districts and water users with the design and replacement rehabilitation of diversions, check structures, wasteways, drops, flumes, dams, seepage mitigation, headgates, measuring devices, bridges, siphons, debris removal, fish screens, debris removal, pump stations, underdrains, field drains, pipe systems, center pivots and other structures.

Performed numerous hydrology and sedimentology watershed analyses; designed, optimized and permitted numerous sediment and flood control and safety-of-dam structures; performed numerous hydraulic designs and assessments of existing and proposed spillway structures and bridges; performed numerous reservoir routing procedures and reservoir operations studies; performed numerous channel and river assessments, bank stabilization & restoration; evaluation of numerous existing and proposed bridge structures using HEC-RAS. Design, permitting and construction administration of numerous large water transfer pipeline projects. Oil & Gas cradle-to-grave water handling for numerous clients including preparation of planning and feasibility & APD mapping, water management plans, NPDES permit applications, SWPPP permit applications, water discharge assessment impacts, road design, well pad design and wetlands permitting. Wetland delineation, mitigation and monitoring.

GROUNDWATER

Developed numerous complex three-dimensional groundwater models using the USGS MODFLOW computer program that incorporate surface/groundwater interaction and multilayer development. Models have undergone extensive peer review through the calibration, verification, simulation and prediction phases. Design of a 3,000 acre-foot off-channel reservoir with inflow and outflow consisting of French drains composed of benefacted alluvial material.

Design and analyses of pump well dewatering systems and determination of groundwater supply and yield analysis. Performed extensive hydrogeologic investigations as well as alluvial valley floor (AVF) and wetland delineations/mitigations. Numerous public water supply evaluations.

TRANSPORTATION ENGINEERING/LAND DEVELOPMENT

Involved with the design and construction administration of numerous municipal roadways, state roadways, and airports including bridges, asphalt roadways, concrete roadways, urban design, streetscape enhancements as well as airport runways and taxiways. Primary engineer in charge of the hydrology/hydraulics portion of numerous urban and rural highway projects. Involved with successful partnership projects, the formation of special improvement districts (SID) for local project funding, and municipal infrastructure/enhancement planning.

Involved with the successful completion of numerous land development projects at both the city and county level. Served as the lead principal-in-charge of the following partial list of land development projects: Mountain View Meadows (4,000 units, Helena); Stallion Ridge Ranch (87 Lots, Lewis & Clark County); Overlook Point (~100 units, Helena); Montana Agro-Energy Industrial Park (9 industrial lots, Havre); Red Fox Meadows Subdivision (~1,000 units, Lewis & Clark County); Northview Subdivision (70 Lots, Lewis & Clark County); and numerous small major (<50 lots) and minor subdivisions.

GRANT FUNDING

Mr. Higley has been writing grants for federal and state agencies since 1999, and has been one of the most successful grant writers in the region. Mr. Higley wrote the Broadwater County Deep Creek Hazard Mitigation Grant that was approved by FEMA as the very first two phase HMGP grant in Montana history, resulting in the approval of over $1.7 million in funding for Broadwater County. Mr. Higley has been on the review panel for the DNRC to review Renewable Resource Grant & Loan Applications since 2008, has written successful grants to nearly every state agency in Montana, and is an experienced grant writer for federal grants. Mr. Higley also reviewed and assisted with grant applications to the EPA for Brownfield funding, which have been praised by the agency as some of the best grant applications that they have received.

MATTHEW SELVIG, P.E.

HELENA CIVIL DEPARTMENT MANAGER/CIVIL ENGINEER

ABOUT ME

Matthew Selvig is an engineer with over 17 years of Civil/Geotechnical Engineering experience. Mr. Selvig has a significant amount of experience in municipal, geotechnical, irrigation, hydrology and hydraulics, land development, and permitting applications. Matt is currently involved in several large water diversion and irrigation projects throughout the state of Montana.

PROFESSIONAL EXPERIENCE

February 2026 to Present	• Civil Department Manager, WWC Engineering, Helena, MT
2011 - January 2026	• Civil Engineer, WWC Engineering, Helena, MT
2009 - 2011	• Research Assistant, Montana State University, Bozeman, MT
Summer 2009	• Engineering Intern, Nemont, Scobey, MT
Summer 2008	• Engineering Intern, Helena Sand & Gravel Company, Helena, MT

EDUCATION

Master of Science
Civil Engineering
Montana State University, 2011

Bachelor of Science
Civil Engineering
Montana State University, 2009

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL ENGINEER

Montana No. 32933

GRANT FUNDING

Prepared numerous successful grant applications to:
DNRC-RRGL
Department of Commerce-CDBG, TSEP
USDA-Rural Development
USBR WaterSMART

SPECIALIZED TRAINING

- Master of Science Coursework in Geotechnical and Structural Engineering
- PEC Safeland & TRAP Basic Safety Awareness Orientation
- OSHA 10 Construction
- First Aid & CPR Certified

PROJECT EXPERIENCE

MUNICIPAL ENGINEERING

Project manager and lead engineer for municipal water diversion and stormwater projects in Lewis and Clark County, MT. Served as lead for the City of Helena Tenmile Diversions Project, including hydraulic analysis, diversion and intake structure design, permitting, and preparation of construction documents. Also served as project manager for a major stormwater management study evaluating existing infrastructure, performing hydrologic and hydraulic analysis, and developing storage, treatment, and capital improvement recommendations to reduce urban flood risk.

Served as lead engineer for a large municipal water and wastewater service expansion in Lewis and Clark County, MT, responsible for permitting, design reports, construction plans and specifications, bidding assistance, and construction inspection. Additional experience includes design support for a wastewater lagoon system upgrade in Sheridan County, MT, including lagoon sizing, liner design, pump and piping systems, and effluent land-application design.

GEOTECHNICAL ENGINEERING

Performed a geotechnical analysis for an in-line impoundment dam in Pondera County, MT involving slope stability and seepage modeling using GeoStudios software. The project included a steady-state seepage analysis, short-term and long-term stability analysis, seismic modeling, and drawdown analysis. The project also included the design of a filter diaphragm for the dam's outlet works as well as general dam design procedures conforming to USDA and USBR recommendations.

PROJECT EXPERIENCE

GEOTECHNICAL ENGINEERING CONT'D

Developed multiple hydrogeologic drilling work plans that adhere to government regulations for subsurface investigations. The work plans involved determining appropriate drilling locations, drilling methods, sampling techniques, groundwater monitoring well installations, and monitoring and sampling schedules.

Performed on-site geotechnical investigations including site-classification of soils per USCS methods, logging boreholes, and accompanying SPT drilling operations.

Authored portions of a research paper during graduate school on effects of temperature and strain rate on geotechnical testing results. Tasks included working in a geotechnical testing lab and assisting with planning and analysis of numerous geotechnical investigations for offshore drilling operations while attending an internship in Norway.

WATER RESOURCES/IRRIGATION

Project manager and lead engineer for a large irrigation inverted siphon project, responsible for overall project delivery including hydraulic analysis, design coordination, constructability review, permitting, and agency coordination.

Project manager and lead engineer for multiple irrigation diversion, headworks, and control structures including cast-in-place concrete flow control facilities supporting reliable and efficient water conveyance.

Served as project manager and lead engineer for irrgaiton automation project involving gate and structure upgrades, telemetry systems, and SCADA system integration. Responsibilities included preliminary design, preparation of basis of design (BOD) reports and technical specifications, bidding assistance, and construction inspection.

Conducted irrigation canal inventory inspections for multiple irrigation districts to identify seepage losses, structural deficiencies, and improvement opportunities, with findings incorporated into Preliminary Engineering Reports.

HYDROLOGY AND HYDRAULICS ENGINEERING

Lead designer for a streambank stabilization and rehabilitation project in Cascade County, MT, involving channel assessment, hydrologic and hydraulic analysis, and design of stabilization measures to address erosion and improve channel resilience. Served as project manager for a streambank stabilization project in Carbon County, MT at a public fishing access site damaged by high flood flows, providing project coordination, hydraulic evaluation, design oversight, and construction support.

Performed hydrologic and hydraulic bridge opening analyses for multiple bridge projects, including peak flow determination for various storm events, development of HEC-RAS models, and evaluation of bridge openings and profiles to convey design flows. Completed floodplain analyses in support of floodplain development permits, including hydrologic modeling, HEC-RAS channel analysis, and determination of inundation limits and recommended building elevations. Conducted large watershed hydrologic modeling using HEC-HMS for a mining permit in Wyoming, including watershed delineation, SCS Curve Number development, and flow routing.

LAND DEVELOPMENT

Project manager and primary design engineer for the design of multi-phased land development projects. Designs included storm water and drainage structures, water and sanitary sewer infrastructure, and highway and road design. Additional duties included drafting engineering plan sets, permitting, and preparing design reports.

Lead engineer for the design of a multi-unit residential apartment complex located in Helena, MT. Duties included drafting a preliminary engineering report, completing a grading and drainage report, designing a subsurface storm water infiltration system, and performing water and sewer infrastructure design.

STRUCTURAL

Lead design engineer of masonry storage buildings for projects located in Roosevelt and Pondera Counties MT. Elements of the design included determining allowable soil bearing capacities, masonry wall design, concrete foundation design, and concrete floor slab design. Additional components of these projects included the fabrication of construction drawings, cost estimate, and bid package.

Lead design engineer of concrete foundation for prefabricated steel buildings located in Lewis and Clark County, MT and Chouteau County, MT. Responsibilities included load determination, footing design, slab design, and building code compliance.

GRANT FUNDING AND ASSISTANCE

Authored successfully funded 2018, 2020, and 2022 RRGL grant applications as well as a 2018, 2020 and 2022 USBR WaterSMART grant application for various irrigation and water resource projects. Elements included in the grant applications were hydraulic analysis using FlowMaster software as well as economic cost/benefit analysis for multiple alternatives. Authored 2015 RRGL, TSEP, and CDBG planning grant applications for the Town of Medicine Lake, MT to complete a Preliminary Engineering Report for the Town's wastewater system as well as a Capital Improvements Plan for the Town's infrastructure.

NEPA/ENVIRONMENTAL ENGINEERING

Assisted with preparation of Environmental Assessments (EAs) and Environmental Impact Statements (EISs), including technical review of the BOR Lower Yellowstone Irrigation Intake Diversion Dam Fish Passage Project EIS and the Avalanche Irrigation District EA. Served as primary support engineer for wastewater treatment system upgrades in Roosevelt and Sheridan County, MT, including design of aerated lagoons, lift stations, pump houses, and spray irrigation systems, as well as structural design of CMU pump houses.

SCOTT DUNKELBERGER, P.E.

CIVIL ENGINEER

ABOUT ME

Scott Dunkelberger joined WWC Engineering in the spring of 2012. Mr. Dunkelberger has experience in water resources, site-civil, geotechnical analysis, road design, hydrology and hydraulics, and is trained in HEC-RAS, Geo-Studio, SewerGEMS, AutoCAD, and MicroStation™.

PROFESSIONAL EXPERIENCE

2016 - PRESENT	• Professional Engineer, WWC Engineering, Helena, MT
2012 - 2016	• Engineering Intern, WWC Engineering, Helena, MT

EDUCATION

Bachelor of Science
Civil Engineering
Montana State University, 2012

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL ENGINEER

Montana No. 48764
Florida No. PE89771

SPECIALIZED TRAINING

- GeoStudio, SLOPE/W, SEEP/W
- FlowMaster
- TriHydro
- HY-8
- HydroCAD
- SewerGEMS
- AutoCAD Civil 3D
- MicroStation™

SPECIALIZED TRAINING CONT'D

- HEC-RAS 1D & 2D
- NASSCO-Pipeline Assessment Certification Program
- DEQ Non-Degradation Trained
- DEQ Circular 8 Storm Water Training
- OSHA 10 Construction
- First Aid & CPR Certified

PROJECT EXPERIENCE

WATER RESOURCE ENGINEERING

Completed numerous watershed analyses by calculating pre- and post-development flows using the SCS Curve Number Method, Rational Method, and Regional Regression Methods to analyze routing and determine detention pond and outlet controls.

Designed urban stormwater infrastructure for both city and private developers.

Written multiple flood study reports, which analyzed headwater and tailwater effects due to fill and hydraulic structures in a designated floodplain.

Completed FEMA floodplain modeling for floodplain mapping.

Designed reinforced concrete diversion and outlet structures both on irrigation canals and major rivers. Design elements included flood impacts, hydraulic capacity, headgate selection, and structural design.

Developed plans for several canal lining projects. Design elements included calculation of water loss in the system, capacity of the canal prism, and geosynthetic selection.

PROJECT EXPERIENCE

GRANT FUNDING AND ASSISTANCE

Prepared preliminary engineering reports and RRGL Grant Applications (2014, 2016, 2018, 2020, 2022 and 2024) for several irrigation districts to obtain funding for irrigation rehabilitation projects.

SITE-CIVIL ENGINEERING

Developed grading and drainage mitigation plans for multiple rural and urban infrastructure improvement areas. Design elements included site grading, parking lot and pavement design, stormwater routing, and drainage structure design.

Developed grading plans for multiple farmland leveling projects.

Developed plans and plat packages for oil well pads in North Dakota and Montana. Design elements included generating proposed grading contours, drainage mitigation and pad layout configuration.

Developed construction drawings and project manuals for multiple parks improvement projects which entailed parking and entrance areas, curb and gutter, concrete sidewalks, asphalt and gravel pedestrian trails, access road, conveyance ditches, recreational ponds, and pedestrian bridges.

GEOTECHNICAL

Performed slope stability and seepage analysis on an engineered embankment using the GeoStudios program.

Performed numerous test pit evaluations, classifying soils according to USCS methods.

Performed consolidation analysis on foundations, embankments, roadways, and elevated pads to determine elastic, primary, and secondary settlements.

Accompanied multiple SPT drilling operations to record blow counts and classify soils according to USCS methods.

Designed multiple pavement sections to facilitate light and heavy-duty traffic. Design elements included subgrade, base course, and geogrid selection and design of the typical section.

Designed foundation drains to mitigate high groundwater from entering basements.

Designed geotechnical structures such as headwalls, retaining walls, and engineered embankments.

TRANSPORTATION ENGINEERING

Developed engineering plans and specifications for a three-mile gravel county road located in Divide County, North Dakota. Design procedures included hydrologic and hydraulic analysis for embankment culvert design, geogrid and geotextile selection, and determination of aggregate layer thickness.

Developed engineering plans for low water crossings in Colorado and Montana. Design elements included hydrologic and hydraulic analysis of stream to implement an armored roadway embankment equipped with a box culvert.

Developed engineering plans for a U.S. highway turn lane expansion, access road and a highway approach. Design elements included AASHTO pavement and road section design, signage and striping plans, vertical and horizontal alignment, and traffic impact study.

Designed several major subdivision roadways. Design included horizontal and vertical alignments, pavement design and stormwater routing.

PERMITTING

Developed multiple floodplain reports to analyze freeboard and low bridge chord elevation requirements, base flood elevation impacts, and scour for pedestrian and vehicular bridges.

Prepared multiple Joint Applications for regulatory approval of proposed improvements located at, in, and near navigable state waterways of Montana and designated wetland areas.

Prepared multiple MDEQ permit applications for potable water, septic and drainfield, public water, and public wastewater system for residential and commercial developments.

CONSTRUCTION INSPECTION

On-site construction inspection of multiple irrigation projects, parks, urban subdivisions, urban developments, municipal water, wastewater and stormwater improvement projects.

DOMESTIC WATER AND WASTEWATER

Permitted several public water supply wells and water systems for residential and commercial developments through MDEQ.

Designed and permitted numerous on-site wastewater treatment systems for individual residential to multi-user residential, commercial and public systems, including MDT rest areas.

JAKE ZISKA, P.L.S., CFEDS, E.I.

MONTANA SURVEY MANAGER, LAND SURVEYOR,
ASSOCIATE CIVIL ENGINEER

ABOUT ME

Jake Ziska is a Land Surveyor/Civil Engineer with over 26 years of experience. Jake oversees and manages all the survey work in all the Montana offices for WWC Engineering. Jake has a diverse background in various aspects of land surveying as well as hydrology, hydraulics, and construction inspection. Mr. Ziska has worked with AutoCAD and is experienced in the use of both conventional and GPS survey equipment.

PROFESSIONAL EXPERIENCE

11/2025-Present	• Montana Survey Manager, Professional Land Surveyor and Associate Civil Engineer, WWC Engineering, Helena, MT
4/2025 - 11/2025	• Survey Department Manager, Professional Land Surveyor and Associate Civil Engineer, WWC Engineering, Helena, MT
2008 - 2022/ 2023-2025	• Professional Land Surveyor and Associate Civil Engineer, WWC Engineering, Helena, MT
2022-2023	• Professional Land Surveyor, IMEG, Bozeman, MT
2000 - 2007	• Engineer Tech, Survey Crew Chief, and Construction Inspector, C&H Engineering and Surveying, Inc, Bozeman, MT

EDUCATION

Bachelor of Science
Civil Engineering
Montana State University, 2008

Associate of Science
Civil Engineering
Northwest Community College

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL LAND SURVEYOR

Montana No. 18636
Nevada No. 021979
North Dakota No LS-7390
Colorado PLS 0038549

CERTIFIED FEDERAL SURVEYOR

CFedS #1513

ENGINEER INTERN

Montana No. #18639

MINE SAFETY HEALTH ADMINISTRATION TRAINING

MSHA #8157

PROFESSIONAL MEMBERSHIPS

Montana Association of Registered Land Surveyors

National Society of Professional Surveyors #16337

SPECIALIZED TRAINING

- IRWA Right-of-Way Acquisition for Pipeline Projects
- 40-hr OSHA Hazwoper Training
- 8-hr OSHA Hazwoper Refresh
- PEC Safeland & TRAP Basic Safety Awareness Orientation
- OSHA 10 Construction
- First Aid & CPR Certified

PROJECT EXPERIENCE

LAND SURVEYING

Served as project manager on the DNRC Ackley Lake Supply Canal Survey. The survey included UAV and GPS survey of 5.1 miles of canal and easement and control survey with level loop to perform vertical corrections. Deliverables included CAD files with 3D surfaces, contours, and site features.

Completed a boundary retracement survey for DNRC on the Deadman's Basin Reservoir and supply canal. The survey consisted of retracing separate deed descriptions in multiple sections and several miles of canal. Marked the boundary with line-of-sight posts for future fencing projects. Prepared a Certificate of Survey and provided CAD files to DNRC

Completed a boundary survey, corner records, and Certificate of Survey for DNRC on the Ackley Reservoir. Survey included retracing the original 1875 GLO survey notes, MDT Highway R/W construction plans, and six existing deed descriptions.

Completed a boundary survey, corner records, and Certificate of Survey for DNRC on the Nilan Reservoir, situated on four sections of land. Established portions of the boundary by retracing the original 1871 GLO survey and 23 separate existing deed descriptions. Assisted with resolution of conflicts with adjoining landowners regarding adjoining deeds and closure errors present in previous deeds.

PROJECT EXPERIENCE

LAND SURVEYING CONT'D

Performed boundary retracements and section subdivisions for oil and gas well plats in Montana, North Dakota, and Nevada.

Performed boundary, topographic, and ALTA surveys, construction staking, and as-builts, using both conventional and GPS survey equipment.

Contracted by Broadwater County to act as examining land surveyor from 2008-2013, Blaine County from 2014-present and Musselshell County from 2017-present. Reviewed surveys for errors and omissions, use of exemptions, and coordinated reviews with county staff and private surveyors.

CONSTRUCTION INSPECTION

Performed nuclear compaction testing, concrete testing, pressure testing, and bacteriological testing on subdivision infrastructure, as well as daily site inspections.

CIVIL ENGINEERING

Completed site grading and drainage plans, storm water system designs, and plans for preliminary plat review.

Coordinated construction staking, site inspections, and meetings for several projects.

Provided engineer's estimates and quantity take-offs for architects and contractors.

CONSTRUCTION SURVEYING

Performed topographic surveys for the design, permitting, and construction of oil and gas well sites in Montana, North Dakota, and Nevada. Also completed construction staking, layout, and as-builts of improvements on these sites.

Performed construction staking and layout of infrastructure for residential and commercial development of subdivisions.

Completed topographic surveys for design, provided project site control, completed quantity surveys for excavation, concrete placement, and stockpiles, and as-built surveys to verify contractor accuracy for the Ruby Dam Spillway project.

DARYL DREW PEARSON, E.S.

HELENA BRANCH MANAGER

ABOUT ME

Drew Pearson is a highly experienced civil engineer and professional land surveyor who has been with WWC Engineering since 2008, bringing nearly two decades of proven expertise to projects across Montana and the surrounding region. Drew has built a strong reputation for delivering practical, resilient, and cost-effective solutions in transportation design, land development, hydrology and hydraulics, irrigation systems, and municipal infrastructure. As a long-time project manager, Civil Department Manager, and the Helena Branch Manager role, he is known for providing clear communication, dependable leadership, and a commitment to high-quality work that reflects WWC's values of service, quality, and integrity. Drew's clients appreciate his ability to understand complex problems quickly, guide multidisciplinary teams, and see projects through from concept to construction with professionalism and accountability. His combination of technical skill, regulatory knowledge, and collaborative leadership makes him a trusted partner and a key asset to any client seeking a thoughtful and experienced engineering team.

EDUCATION

Bachelor of Science
Civil Engineering
Montana State University, 2008

PROFESSIONAL EXPERIENCE

2026 - PRESENT	• Helena Branch Manager, WWC Engineering, Helena, MT
2019 - 2025	• Civil Department Manager, WWC Engineering, Helena, MT
2008 - 2019	• Civil Engineer/Surveyor, WWC Engineering, Helena, MT
May-August 2007	• Engineering Intern, WWC Engineering, Helena, MT
2005 -2008	• Student Designer, Montana Department of Transportation/ MSU Design Unit, Bozeman, MT

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL ENGINEER

Montana No. ES62631
Arkansas PE 23612
Florida PE 90860
Georgia PE 053860
Illinois PE 062.074596
Indiana PE 12300444
Missouri PE 2022028979
Oklahoma PE 34569
Wisconsin PE 49543-6
Oregon 108719PE

PROFESSIONAL LAND SURVEYOR

Montana No. ES62631

MINE SAFETY HEALTH ADMINISTRATION TRAINING

MSHA #8157

PROFESSIONAL MEMBERSHIPS

Montana Association of Registered Land Surveyors

Montana Water Resources Association

PROFESSIONAL MEMBERSHIPS CONT'D

Montana Board of Professional Engineers and Land Surveyors (Board Member)

SPECIALIZED TRAINING

- HEC-RAS
- AutoCAD Civil 3D
- ArcGIS
- OSHA 10 Construction
- First Aid & CPR Certified
- Trimble Business Center

GRANT FUNDING

RRGL Grant Reviewer for DNRC in 2022 AND 2024

Preparation of Numerous Grant Applications to: DNRC-RRGL, IDG, DOC TSEP & CDBG; SRF; RD; FEMA HHDP, BOR-WaterSMART

LAND SURVEYING

Extensive experience in boundary retracement, topographic and UAV-based surveys, and preparation of survey deliverables for public agencies and private clients. Work has included UAV topographic mapping of a 15-mile irrigation canal, including aerial target layout, flight operations, point cloud processing, and generation of high-resolution surfaces for engineering design. Additional surveying tasks include drafting and data reduction for the DNRC Deadman's Basin Reservoir and supply canal, retracing deed descriptions across multiple sections, establishing line-of-sight boundary markers, and preparing Certificates of Survey for agency review.

Technical capabilities include high-accuracy data collection using GPS and UAV methods, point cloud processing, and detailed drafting using Civil 3D, ArcGIS, and Trimble Business Center. Surveying work consistently supports engineering design, land development, and infrastructure projects by providing precise and defensible spatial data.

PROJECT EXPERIENCE

LAND SURVEYING CONT'D

Significant experience with section subdivision and public land corner recovery across multiple counties, involving interpretation of historic mineral surveys, MDT right-of-way records, aliquot parts, and private property boundaries. Field responsibilities included locating and setting public land corners, staking inter-visible line posts, and preparing corner records for filing. Survey support has also included drafting COS documents for boundary relocations, subdivisions, and retracement projects.

NEPA/ENVIRONMENTAL ENGINEERING

Experience includes preparation of NEPA-compliant environmental documentation and feasibility-level planning for water resource, irrigation, and municipal infrastructure projects. Work has involved contributing to and authoring sections of Environmental Assessments (EAs), developing purpose and need statements, evaluating project alternatives, and preparing technical analyses related to hydrology, land use, wetlands, cultural resources, and environmental impacts. NEPA responsibilities have included coordinating with federal and state agencies, incorporating public input, and ensuring that documentation meets regulatory and procedural requirements.

Project experience includes serving as lead design engineer and one of the principal NEPA writers for a large-scale feasibility study and EA associated with the Canyon Ferry Irrigation Water Users Association, covering more than 2,000 acres of proposed new irrigated land. Additional tasks have included preparing supporting documentation for wastewater system upgrades, assisting with environmental compliance requirements for federal and state funding programs, and integrating engineering design with environmental constraints during alternative development.

ENERGY DEVELOPMENT

Experience includes engineering design, permitting, and construction support for energy-sector infrastructure, including switchyards, solar facilities, and produced-water reuse systems. Responsibilities have included hydrologic and hydraulic analysis, site grading design, stormwater planning, and preparation of construction drawings and SWPPPs for utility-scale projects in Missouri, Indiana, and Colorado. Work has also included coordinating with contractors, reviewing pay applications, managing change orders, and supporting project closeout for design-build and general-contractor delivery models.

Project roles include lead designer for a produced-water reuse storage facility involving multiple jurisdictional ponds, access roads, drainage improvements, and permitting documentation. Work also included authoring a hazard classification report for the state engineer's office for ponds designated as minor jurisdictional dams. Additional experience includes boundary retracement and staking for well-pad locations, preparation of well plats and corner records, and integration of survey data into energy-sector design efforts.

LAND DEVELOPMENT

Experience includes comprehensive planning, design, and permitting for commercial, residential, and mixed-use land development projects throughout Montana. Responsibilities have encompassed feasibility studies, ALTA and site surveys, site layout, grading and drainage design, utility planning, and preparation of construction plans and technical specifications. Project scopes have included public water supply design, wastewater and drainfield permitting, municipal water and sewer service connections, stormwater analysis, and preparation of MDT approach permits, state building permits, and landscape plans. Project management experience includes oversight of multi-site commercial developments—such as statewide retail programs—requiring coordination of design, permitting, scheduling, and contractor support to meet aggressive timelines across multiple jurisdictions. Additional responsibilities include preparing quantities, conducting truck-turning movement analyses, and ensuring compliance with local, state, and federal regulatory requirements.

IRRIGATION/WATER RESOURCES, HYDROLOGY, AND HYDRAULICS

Extensive experience in hydraulic modeling, canal and irrigation system design, and water resource infrastructure improvements. Tasks include developing HEC-RAS models for stream restoration, canal rehabilitation, and hydraulic structure evaluation; performing hydrologic analyses to determine peak flows for major, bankfull, and design-event conditions; and interpreting model results to guide engineering decisions on channel geometry, stabilization measures, and conveyance improvements. Project work also includes topographic survey coordination, UAV data integration, quantity development, and preparation of construction drawings for canal lining and reshaping projects in multiple Montana counties.

Irrigation system design experience encompasses feasibility studies, modernization assessments, and detailed design for pump stations, buried transmission pipelines, booster pumps, headworks structures, center pivots, and wheel-line systems. Responsibilities have included sizing supply lines and pumps, generating TIN surfaces and project plans, preparing Project Manuals and O&M documentation, and completing hydraulic calculations for upgraded or automated water-control structures. Additional work includes authoring multi-system feasibility studies comparing irrigated and dryland economics, completing modernization evaluations for large irrigation districts, and preparing financial, operational, and water-conservation analyses to support long-term System Improvement Plans. Hydrology, hydraulics, and irrigation project roles consistently integrate field data, survey inputs, hydraulic modeling, and engineering design to deliver efficient water-management solutions. Experience includes permitting, construction oversight, and coordination with irrigation districts, landowners, and regulatory agencies to ensure system performance, operational reliability, and long-term sustainability.

GRANT WRITING

Experience includes preparing and supporting competitive funding applications for municipal infrastructure, irrigation system improvements, and water resource projects. Work has involved developing project narratives, cost estimates, preliminary engineering material, and supporting documentation required for state and federal programs. Funding efforts have included applications for the Montana DNRC Renewable Resource Grant and Loan Program, ARPA and SRF programs for wastewater and water system upgrades, and USDA programs supporting agricultural and irrigation efficiency improvements.

Responsibilities have included coordinating with clients to define project needs, assembling feasibility-level technical analyses, preparing benefit-cost summaries, and aligning proposed projects with program eligibility requirements. Additional tasks include long-term capital planning support, multi-phase funding strategies, and preparation of materials used to secure local match, environmental compliance documentation, and subsequent project agreements. Grant-writing work consistently focuses on producing technically sound, well-supported applications that improve project competitiveness and help clients advance critical infrastructure and resource-management improvements

GREG JONES, P.E.

KALISPELL OFFICE MANAGER

ABOUT ME

Greg Jones has over 5 years of experience in the engineering field. Mr. Jones has gained experience in residential and commercial development, which includes site grading, municipal utilities, and stormwater design/modeling. He also has experience in permitting, construction administration, drafting, surveying, project planning, and grant writing all geared towards meeting the specific needs of each client. Mr. Jones will be the lead design engineer for the Choice Hotels Project.

PROFESSIONAL EXPERIENCE

March 2026 - Present	• Kalispell Office Manager, WWC Engineering, Kalispell, MT
2024 - March 2026	• Civil Department Manager, WWC Engineering, Billings, MT
May 2021 - 2024	• Associate Civil Engineer, WWC Engineering, Billings, MT
2018 - May 2021	• Associate Civil Engineer, WWC Engineering, Helena, MT
May 2017 - August 2017	• Engineering Intern, Pioneer Technical Services, Helena, MT

EDUCATION

Bachelor of Science
Civil Engineering
Environmental Emphasis;
Mathematics Minor
Carroll College, Helena, 2018

REGISTRATIONS

PROFESSIONAL ENGINEER
Montana No. 88938

SPECIALIZED TRAINING

- PSMJ & John Geddie Project Management Training
- AutoDesk
- AutoCAD Civil 3D
- Bently Products (SewerGEMS, WaterGEMS and FlowMaster)
- HIY-8

SPECIALIZED TRAINING CONT'D

- ArcGIS
- OSHA 10 Construction
- First Aid & CPR Certified

PROJECT EXPERIENCE

RESIDENTIAL AND COMMERCIAL DEVELOPMENT

Served as design engineer on multiple subdivisions within the City of Billings and Yellowstone County. Projects within City limits include municipal water, sewer, and storm infrastructure design. Projects designed within the City of Billings limits include previously platted sites, resubdivision of land, and unit ownership sites. Experienced in Bentley SewerGEMS software for accurate modeling of various storm events to provide results to permitting agencies and verify stormwater infrastructure meets design requirements. Authored multiple Final Drainage Reports summarizing results from modeling. County projects require drainfield, water, and site stormwater design to satisfy City of Billings and Montana DEQ requirements. Assisted with permitting and approval of these subdivisions through City of Billings, Yellowstone County, DEQ, and others.

Prepared commercial site development documents and design for multiple commercial properties within the City of Billings. Projects include site grading and layout, water and sewer services, and stormwater design to satisfy requirements set forth by the City of Billings, DEQ, American Disabilities Act (ADA), and others. Served as design engineer from project infancy to construction closeout.

CIVIL ENGINEERING-MUNICIPAL

Design engineer for water and sewer infrastructure expansion project located in Helena, MT. Major design elements included identifying necessary survey information, processing large amounts of survey data points to create an accurate TIN surface, pathing the horizontal and vertical alignments for thousands of feet of water and sewer main, distinguishing the service needs for current and future residences, all while meeting state and city design requirements. Assisted in developing project bid documents and the engineer's estimate.

PROJECT EXPERIENCE

GRANT FUNDING

Prepared application and secured $15,000 DNRC RRGL Planning Grant for the Billings Bench Water Association (BBWA) for procurement of a Preliminary Engineering Report (2021).

Co-authored three (3) Preliminary Engineering Reports for multiple irrigation districts within Montana (2019). PERs are utilized to apply for DNRC RRGL Construction grants valued at up to $125,000 and additional grant opportunities.

PLANNING

City of Red Lodge - Responsible for reviewing applications, drafting permits and staff reports, updating zoning maps and ordinances, and presenting at board meetings and public hearings. Tasks include evaluating preliminary subdivision plats, preparing recommendations for zoning and subdivision regulations, and assisting with annexation and zoning amendments.

Worked with the City of Red Lodge to update the Growth Policy and Downtown Master Plan, including gathering public input, reviewing drafts, and guiding the adoption process with the Planning Board and governing body.

Provide floodplain management for recovery permitting, FEMA mitigation grants, and compliance with NFIP regulations. Responsibilities include reviewing projects, assisting with public outreach, updating floodplain regulations, and coordinating with the MT DNRC

OIL AND GAS DEVELOPMENT

Developed multiple engineering plan sets for gas and produced water pipelines in Mountrail, Burke, and Williams County, ND. Post-construction

requirements included drafting as-built exhibits showing disturbance on each landowners' property.

Created various plans and plat packages for oil well pads in multiple North Dakota counties. Design elements included generating proposed grading contours, drainage mitigation, and pad layout configuration, while satisfying state and client requirements.

LAND SURVEYING

Provided support with staking water and sewer infrastructure for the City of Helena West Side Water & Sewer project. Assisted with data preparation and QAQC of staking points. Processed survey points to create accurate drawings of existing utilities, infrastructure, and topography.

Surveyed numerous sections of land in southeast Wyoming to properly prepare well plats applications.

Assisted with staking curb, water, and sewer main for the Mountain View Meadows Subdivision located in Helena, MT.

Surveyed as-built sanitary sewer manholes and storm water inlets at Red Fox Meadows subdivision in Helena, MT. Survey data was checked in MicroStation™ to ensure compliance with state minimum grade requirements.

Drafted multiple Certificate of Surveys (COS) for boundary surveys and retracements in Lewis and Clark County and Yellowstone County. Drafting elements included reading and interpreting deeds, previous COS documents, MDT highway plans, and recreating the record MDT highway alignment/right-of-way.

CONSTRUCTION MANAGEMENT

Provided construction administration on numerous residential development projects within the City of Billings. Inspection duties included monitoring site safety, ensuring installation and materials were in compliance with City of Billings and MPWSS standards, clear and concise communication with the contractor (including superintendent and project manager), and scheduling quality assurance testing for soils and surfacing.

Primary project representative for the City of Helena West Side Water & Sewer project and Red Fox Meadows subdivision in Helena, MT. Tasks included monitoring job site safety, ensuring water and sewer infrastructure installation met the City of Helena and MPWSS standards, communication with the contractor regarding work schedule and concerns, field engineering solutions to unforeseen complications, providing professional advice about design plan inquiries and interacting with the public to address project questions and concerns.

Inspected sewer (main and manholes) and water main tests for compliance within project specifications at multiple subdivisions in Helena and Billings, Montana.

PERMITTING

Successfully obtained multiple sanitarian permits within Yellowstone and Carbon County. Permitted multiple riprap lining projects within Yellowstone County through the DNRC Joint Application and Army Corps of Engineers.

Assisted with writing a DNRC Joint Application for the Town of Medicine Lake Wastewater Treatment project.

Prepared an MDT Utility Occupancy and Location Agreement permit for state approval to bore a municipal water main under a state highway in Helena, MT.

AMBER FRYDENLUND

GRANT ADMINISTRATOR

ABOUT ME

Amber Frydenlund has over 20 years of experience in grant administration, grant writing, and coordination with regulatory agencies. Ms. Frydenlund's past experience has led her to have extensive training in several areas of funding including loans and grants. Ms. Frydenlund also assists with development of planning documents for communities throughout the state of Montana.

PROFESSIONAL EXPERIENCE

2005 - PRESENT
- Grant Administrator, WWC Engineering, Helena, MT

2002 - 2005
- Financial Services Representative, First Interstate Bank, Missoula, MT

EDUCATION

Bachelor of Science
Business Administration
(emphasis in International Business)

University of Montana, 2002

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL MEMBERSHIPS

Montana Association of Planners

National Grants Management Association

SPECIALIZED TRAINING

- Grants Management Body of Knowledge (GMBoK) Training
- W_2ASACT Funding
- Plat and Subdivision Law
- MAP Conference
- Grant Writing and Administration
- HMGP/PDM/BRIC
- Grant Management 2 CFR Part 200
- First Aid/CPR Certified
- Geddies Project Management

Training

GRANT FUNDING

Preparation of Numerous Grant Applications to: DNRC RRGL, ARPA, IDG, RDGP, TSEP, & CDBG, SRF Loans, RD Grant & Loans, MDT CTEP, MTFWP RTP, FEMA BRIC, HMGP, & PDM, BOR WaterSMART

PROJECT EXPERIENCE

GRANT ADMINISTRATION

Assists with the tracking and managing of grants and loans for projects funded by a single funding source to projects with multiple funding sources. This includes acting as a liaison between the agency, project manager and grant recipient to coordinate monthly and quarterly reporting, assisting in the preparation of draw requests, responding to agency specific requirements, tracking all project funding, working with grant recipients on match tracking, coordinating with agencies on project changes, and preparing closeout documents.

Continuously stays in contact with agencies to keep informed on reporting requirement changes. Attends training sessions and works with the WWC Team and clients to keep reporting needs current.

Currently assisting with the Town of Hobson's wastewater project. Involved in coordinating contract requirements, reporting requirements, and draw requests. Funding sources for the Town of Hobson is a mix of state and federal grants and loans including local fiscal recovery funds, ARPA grant, rural development grant and loan and contributions from the Town of Hobson.

PROJECT EXPERIENCE

GRANT ADMINISTRATION CONT'D

Assisted with several DNRC ARPA construction grants for various conservation and irrigation districts. Involved in coordinating of contract requirements, quarterly reporting, draw requests, project tracking and closeout requirements.

Assisting with several DNRC RRGL construction and planning grants for various conservation and irrigation districts. Involved in coordinating of contract requirements, quarterly reporting, draw request, project tracking and closeout requirements.

Assisting with several BOR WaterSMART construction grants for various conservation and irrigation districts. Involved in coordinating of contract requirements, quarterly reporting, draw request, project tracking and closeout requirements.

Assisted Pondera County Canal and Reservoir Company (PCCRC) with the Dupuyer Creek and C-Canal projects. Involved in coordinating contract requirements, reporting requirements and draw requests from both the Bureau of Reclamation (BOR) and the DNRC Renewable Resources Grant and Loan program.

Assisted with the City of Great Falls Black Eagle Reservoir Bank Stabilization project. Involved in coordinating contract requirements, reporting requirements and draw requests with the State of Montana DES, and match funding tracking.

Assisted in the administration of funds for the Town of Culbertson's wastewater project. Tasks included coordination between funding agencies that were involved in the project, which included SRF, RD, WRDA, DNRC and the Town of Culbertson.

Assisted with the administration of funds between Broadwater County and FEMA for the Deep Creek project. Administration included progress reporting to FEMA and the Broadwater County Commissioners, permit tracking, pay requests, project documentation and fulfilling contract requirements.

Assisted with the Town of Medicine Lake's wastewater project. Involved in coordinating contract requirements, reporting requirements and draw requests with DNRC, TSEP, RD and the Town of Medicine Lake.

GRANT FUNDING AND ASSISTANCE

Assists during funding cycles with the review and submittal of grant applications that vary in levels of application requirements. Acts as a liaison between the applicant, grant writer and agency during the application writing, submittal and assists with any agency requests after the application submittal.

Continuously stays in contact with agencies to stay on top of program and application requirement changes. Attends training sessions and works with the WWC Team and clients to keep everyone up to date on changes.

Tracks and manages the progress of all projects that are grant and loan funded through various agencies and assists with the funding management and reporting requirements. This includes acting as a liaison between the agency, project manager and grant recipient, monthly and quarterly reporting, assisting in the preparation of draw requests, responding to agencies specific requirements to satisfy the grant requirements, and preparation of closeout documents.

Experience in grant administration of DNRC RRG construction grants and planning grants, CDBG grants, ARPA funded grants, TSEP grants, RD grants, DNRC IDG grants, PDM grants, HMGP grants, BRIC grants, Fish, Wildlife, and Parks Recreational Trails Program (RTP) grants, and BOR WaterSMART grants.

PLANNING ASSISTANCE

Assists with the review of preliminary plat applications for subdivisions. Review includes examination of application package for completeness, examination of the preliminary plat and supplements for sufficiency, writing staff reports, attending planning board meetings and examination of final plat submittals in accordance with the existing growth policy and subdivision regulations.

Assisted in the development of updates to Growth Policies for the City of Townsend, Blaine County, City of East Helena, and the Town of Culbertson.

DAVE COLLINS

PROFESSIONAL LAND SURVEYOR

ABOUT ME

David Collins is a Land Surveyor with over 25 years of experience. David has a diverse background in various aspects of land surveying. Mr. Collins has worked with AutoCAD and MicroStation™ and is experienced in the use of conventional, GPS, and UAV survey equipment.

PROFESSIONAL EXPERIENCE

2011 - PRESENT	• Professional Land Surveyor, WWC Engineering, Helena, MT.
2001 - 2011	• Survey Crew Chief, C&H Engineering and Surveying, Inc., Bozeman, MT

EDUCATION

Bachelor of Science
Microbiology
Montana State University, 2001

REGISTRATIONS AND CREDENTIALS

PROFESSIONAL REGISTRATION

PROFESSIONAL LAND SURVEYOR
Montana No. 18626
North Dakota LS-28125

PROFESSIONAL MEMBERSHIPS

Montana Association of Registered Land Surveyors

National Society of Professional Surveyors #19150

SPECIALIZED TRAINING

- PEC Safeland & TRAP Basic Safety Awareness Orientation
- Nuclear Gauge Training
- OSHA 10 Basic Awareness
- OSHA 10 Refresh
- First Aid & CPR Certified
- Wetland Training Institute - Wetland Delineator Certified Program

SPECIALIZED TRAINING CONT'D

- FAA Licensed Remote Pilot
- MSHA 40-hr Underground Mine Training
- SWPP Administrator and Preparer Certified

PROJECT EXPERIENCE

LAND SURVEYING

Performed aerial survey using unmanned aerial vehicles (UAV) to map new project boundaries to assist the DNRC in their Broadwater Project FERC Relicensing Survey. The survey included mapping over 3.5 miles of the Toston Reservoir and retracing GLO/BLM surveys to calculate new acreages for the project.

Completed a segment of Spotted Dog Wildlife Management Area (WMA) boundary for the Montana Fish, Wildlife, and Parks (FWP). Established or re-established portions of the FWP boundary based on the Montana State Plane Coordinate System. Marked boundary lines with proper BLM monument standards at corners and metal fence posts, assuring line-of-sight monumentation through all topography.

Performed a topographic survey of the LYIP Fish Bypass Canal Damage to assess damage caused by flooding and ice flows. The survey combined the use of UAV LiDAR/photogrammetry to map the upland features and GPS integrated sonar to map underwater features.

PROJECT EXPERIENCE

LAND SURVEYING CONT'D

Completed surveying and data processing on the DNRC Ackley Lake Supply Canal Survey. The survey included UAV and GPS survey of 5.1 miles of canal and easement and control survey with level loop to perform vertical corrections. Deliverables included CAD files with 3D surfaces, contours, and site features.

Performed GPS OPUS observations for the Montana Bureau of Mines and Geology's (MBMG) statewide groundwater investigation. Survey included providing the MBMG with latitude, longitude, and NAVD 88 elevations for monitoring wells and irrigation control gates in the Bozeman and Belgrade areas.

Performed floodplain surveys for elevation certificate, LOMA application, and floodplain determination.

Completed numerous oil & gas well plats in Montana, Nevada and North Dakota by retracing the original GLO survey notes, surveying existing section corners and filing corner records where needed. Performed staking for well pad layouts and topographic surveys for well pad design. Developed well plats for submittal to the North Dakota Industrial Commission (NDIC) and Montana Board of Oil & Gas Conservation (MBOGC).

Performed hydrogeographic survey on the Missouri River for the Urban Corridor/Black Eagle Reservoir Watershed Project using a GPS integrated sonar device. Project required proof of zero effect on the Missouri River floodplain.

Performed aerial survey using unmanned aerial vehicles (UAV) to map new project boundaries to assist the DNRC in their Broadwater Project FERC Relicensing Survey. The survey included mapping over 3.5 miles of the Toston Reservoir and retracing GLO/BLM surveys to calculate new acreages for the project.

Performed a topographic survey of the LYIP Fish Bypass Canal Damage to assess damage caused by flooding and ice flows. The survey combined the use of UAV LiDAR/photogrammetry to map the upland features and GPS integrated sonar to map underwater features.

CONSTRUCTION SURVEYING

Performed construction staking and layout of sidewalks, curbs, finish grades, lights, signs, water, sewer and buildings for the Montana Department of Transportation truck stop in Harlowton.

Performed topographic and boundary surveys for the design and construction of numerous residential and commercial developments in Montana. Also, completed construction staking, layout, and as-built survey of site improvements on these developments.

Performed topographic and boundary surveys for the design and construction of various aspects of the Mountain View Meadows Subdivision, Canyon Ridge Subdivision and the Remington Apartments in and around Helena, Montana. Completed construction staking, layout, and as-built survey of site improvements.

WETLANDS DELINEATION

Completed delineation of wetland area boundaries for assessment and inventory of wetland areas. Prepared reports, shape files and maps of wetland areas for incorporation into permit documents and design files.

AERIAL SURVEYING

Planned and performed aerial surveying utilizing unmanned aerial vehicles (UAV) to produce orthorectified imagery and survey grade topographic surface with the use of LiDAR for design/as-builts of canals, subdivision, floodplains, oil well pads ALTA/NSPS Land Title Surveys and quantity calculations.

DOG CONTROL AGREEMENT 2026-2027

PARAGRAPH I .
A CONTRACT FOR SERVICES ENTERED INTO BETWEEN THE COUNTY OF LINCOLN AND THE CITY OF LIBBY, A DULY INCORPORATED MUNICIPALITY SITUATED WITHIN THE BOUNDARIES OF LINCOLN COUNTY.

PARAGRAPH II .
LINCOLN COUNTY AND THE CITY OF LIBBY AGREE TO COOPERATIVELY ENFORCE DOG CONTROL ORDINANCES WITHIN THE CITY LIMITS OF LIBBY. ENFORCEMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, ROUTINE PATROLLING, IMPOUNDMENT OF UNLICENSED AND STRAY DOGS, ISSUANCE OF CITATIONS FOR VIOLATIONS, AND SUCH OTHER SERVICES AS REQUIRED UNDER APPLICABLE ORDINANCES.

PARAGRAPH III.
LINCOLN COUNTY SHALL PROVIDE EQUIPMENT AND SUPPORT TO LIBBY RESIDENTS FOR THE HUMANE TRAPPING OF CATS. A FULLY REFUNDABLE DEPOSIT MAY BE REQUIRED FOR THE USE OF LIVE TRAPS, WHICH SHALL BE DISTRIBUTED BASED ON AVAILABILITY.

PARAGRAPH IV.
IN CONSIDERATION FOR SERVICES RENDERED UNDER THIS CONTRACT, THE CITY OF LIBBY AGREES TO PAY TO THE LINCOLN COUNTY SHERIFF'S OFFICE THE SUM OF $25,000.00 FOR THE CONTRACT PERIOD. THIS AMOUNT MAY BE PAID IN EQUAL MONTHLY INSTALLMENTS OR IN A LUMP SUM NO LATER THAN JUNE 30, 2027. ADDITIONALLY, THE CITY OF LIBBY SHALL PAY $2,500.00 TO THE LINCOLN COUNTY ANIMAL SHELTER TO ASSIST WITH SPAY AND NUETER CLINIC FEE'S ANUALLY. THIS AMOUNT REFLECTS INCREASED CALL VOLUME, MATERIAL COSTS, SHELTER EXPENSES, AND FIELD TIME ASSOCIATED WITH ENFORCEMENT AND CARE DUTIES.

PARAGRAPH V.
LINCOLN COUNTY AGREES TO SELL ALL REQUIRED DOG LICENSES AND TAGS PURSUANT TO ORDINANCE REQUIREMENTS. TAG AND LICENSE RECEIPTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. ANIMAL'S DESCRIPTION
B. ANIMAL'S NAME
C. TAG NUMBER
D. OWNER'S NAME
E. OWNER'S ADDRESS AND PHONE NUMBER
F. PROOF OF CURRENT RABIES VACCINATION

PARAGRAPH VI.
DESIGNATED ANIMAL CONTROL OFFICERS SHALL BE HIRED OR CONTRACTED BY LINCOLN COUNTY AND SHALL BE VESTED WITH THE AUTHORITY TO ENFORCE RELEVANT ORDINANCES. SAID OFFICERS SHALL PERFORM DUTIES INCLUDING RESPONSE TO CALLS, PATROLLING, INVESTIGATION, IMPOUNDMENT, AND REPORTING.

PARAGRAPH VII.

IN ADDITION TO ENFORCEMENT DUTIES, LINCOLN COUNTY SHALL BE RESPONSIBLE FOR THE CARE, FEEDING, CLEANING, AND OVERALL MAINTENANCE OF IMPOUNDED ANIMALS AND ASSOCIATED SHELTER FACILITIES. THESE DUTIES MAY BE PERFORMED DIRECTLY BY COUNTY EMPLOYEES OR THROUGH CONTRACT WITH A QUALIFIED THIRD PARTY.

PARAGRAPH VIII.

THE ANIMAL CONTROL PROGRAM SHALL BE ADMINISTERED BY LINCOLN COUNTY. THE CITY OF LIBBY SHALL DESIGNATE AN OFFICIAL AS A POINT OF CONTACT WHO SHALL BE RESPONSIBLE FOR COMMUNICATING CITY CONCERNS REGARDING PERFORMANCE UNDER THIS AGREEMENT.

PARAGRAPH IX.

ALL REVENUE GENERATED THROUGH LICENSE AND IMPOUND FEES SHALL BE RETURNED TO THE LINCOLN COUNTY TREASURER FOR THE PURPOSE OF SUPPORTING THE ANIMAL CONTROL PROGRAM THROUGHOUT THE TERM OF THIS AGREEMENT.

PARAGRAPH X.

RENEWAL OR REVISION OF THIS AGREEMENT SHALL OCCUR NO LATER THAN THIRTY (30) DAYS FOLLOWING THE EXPIRATION DATE SET FORTH BELOW.

PARAGRAPH XI.

THIS AGREEMENT MAY BE TERMINATED BY EITHER PARTY WITH THIRTY (30) DAYS WRITTEN NOTICE TO THE OTHER PARTY.

EFFECTIVE DATE OF THIS CONTRACT: July 1, 2026

EXPIRATION DATE OF THIS CONTRACT: June 30, 2027

LINCOLN COUNTY COMMISSION CHAIR	MAYOR CITY of LIBBY
DATE 6/3/26	DATE