Processing Materials

- Work copies of applicant-submitted information
- Deficiency letter
- Deficiency response
- Correct & complete determination
- Any correspondence with the applicant after application receipt and prior to sending the Draft PD

Processing Materials

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

October 5, 2026

STILLWATER MOUNTAIN RANCH LLC
7854 FARM TO MARKET RD
WHITEFISH MT 59937-1307

Subject: Correct and Complete Application to Change a Water Right No. 76LJ 30172463

Dear Applicants,

The Department of Natural Resources and Conservation (Department) has determined that your application is correct and complete pursuant to Administrative Rules of Montana 36.12.1601. Please remember that correct and complete **does not mean that your application will be granted**. The purpose of this letter is to indicate that the Department has enough information to analyze your water right application.

The Department will issue a Draft Preliminary Determination within 60 days of the date of this letter per §85-2-307(2)(b), Montana Code Annotated (MCA).

Following issuance of the Draft Preliminary Determination, you (Applicant) will have 15 business days to request an extension of time to submit additional information, if desired pursuant to §85-2-307(3)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to grant your application or grant your application in modified form, the Department will prepare a notice of opportunity to provide public comment, per §85-2-307(4)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to deny your application, the Department will adopt the Draft Preliminary Determination as the final determination per §85-2-307(3)(d)(ii), MCA.

Please contact me at (406) 752-2702 or Jack.Vanderbilt@mt.gov if you have any questions.

Sincerely,

Jack Vanderbilt
Water Resource Specialist
Kalispell Regional Water Resources Office

Cc via email: Brad Bennett, Senior Hydrogeologist, Water & Environmental Technologies

Application Materials

- Application
- Any information submitted with Application including maps

Application Materials

Water & Environmental
TECHNOLOGIES

September 9, 2026

Jim Ferch
DNRC Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901

Re: Form 606 Application to Change Water Right No. 76LJ 30175732 – Stillwater Mountain Ranch LLC

Dear Jim:

The purpose of this correspondence is to submit the Application to Change a Water Right (Form 606) for Water Right No. 76LJ 30175732 on behalf of Stillwater Mountain Ranch LLC (SMR).

The proposed change will support irrigation of the golf course being developed at Stillwater Mountain Ranch near Whitefish, Montana. The application proposes to utilize the corrected historical diversion location on the Stillwater River, modify the place of use to include 92.09 acres of golf course irrigation, and add a 29.25-acre-foot irrigation storage reservoir. Supporting documentation is provided as necessary to supplement the Form 606 and associated Change Storage Addendum (Form 606-SA).

The following information and attachments are provided in support of the Form 606 application.

Form No. 606 Responses

As required, the following responses are provided in support of the attached Form 606 where space limitations precluded providing a complete explanation within the form itself.

3. Change Storage Addendum (Form 606-SA) – Preliminary Design Specifications

The proposed place of storage consists of an excavated, lined irrigation storage basin with a surface area of 3.9 acres, maximum depth of 15 feet, and storage capacity of 29.25 acre-feet. The basin will be constructed by excavation and will not rely on an embankment dam for impoundment. No drainage device is proposed. Water will be conveyed to the basin from the Stillwater River at a maximum rate of 1,500 gpm (3.34 cfs) and withdrawn from the basin by the golf course irrigation pump station, which has a design capacity of 2,250 gpm. See the attached project plans for the preliminary configuration and design of the proposed storage basin.

11. You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to § 85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.

NA – The proposed point of diversion and conveyance system will be located entirely on property owned by Stillwater Mountain Ranch LLC and will not be shared with any other water right owner. Although the original water right historically served places of use on multiple ownership parcels, the water right has since been split. The other water right owners do not have an easement or other legal access to the proposed point of diversion or conveyance system located on Stillwater Mountain Ranch property.

17. Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary, to clearly convey all required information.

See attached **Figures 1 through 3** – Historical Water Use. The figures depict the historical point of diversion and irrigation conveyance system, the original 287.6-acre place of use associated with Water Right No. 76LJ 9218-00, the 195.2-acre historical place of use associated with Water Right No. 76LJ 30175732, and the 3.4-acre place of use associated with Water Right No. 76LJ 30174766. Historical aerial imagery from 1974, 1990, and 2011 is provided to illustrate the historical irrigation configuration and use of the property.

18. Submit a proposed use map created on an aerial photograph or topographic map that shows section corners, township and range, scale bar, north arrow, and the following elements: points of diversion labeled with a unique POD ID ("P" followed by a number), places of use, conveyance structures, places of storage, and place of use for all overlapping water rights. Include all elements that will be on the water rights after the proposed change, regardless of whether the element will be modified by the change. The map should fully depict the water rights, as proposed, after the change.

See attached **Figure 4** – Proposed Water Use. Figure 4 depicts proposed POD P1 on the Stillwater River, the proposed 12-inch HDPE conveyance main, the proposed 29.25-acre-foot irrigation storage reservoir, and the proposed 92.09-acre golf course irrigation place of use.

19.b. Describe the location of all historical PODs you propose to retire.

The historical point of diversion identified as H1 will be retired as an authorized point of diversion for Water Right No. 76LJ 30175732 as part of the proposed change. During the preapplication process, WET identified that the legal land description previously associated with H1 did not

accurately reflect the physical location of the historical diversion structure. A request was submitted to correct the water right record to reflect the actual historical location of the diversion works. The correction is administrative in nature and does not represent a change in the historical point of diversion. The proposed change will replace H1 with the new point of diversion identified as P1.

20.b. Describe the legal land description of the proposed place of use, and if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Gov't Lot	¼	¼	Sec.	Twp.	Rge.	County
18.48		S2	SE	10	31N	23W	Flathead
3.34		SW	SW	11	31N	23W	Flathead
19.44		N2	NW	14	31N	23W	Flathead
31.37		S2	NW	14	31N	23W	Flathead
4.50		N2	SW	14	31N	23W	Flathead
2.47		NW	SE	14	31N	23W	Flathead
10.45		NE	NE	15	31N	23W	Flathead
2.04		SE	NE	15	31N	23W	Flathead
92.09							

23. Do you own the entire historical place of use for all water rights proposed for change?

Yes. Water Right No. 76LJ 30175732 was created through a split of Water Right No. 76LJ 9218-00 following completion of the preapplication process. The split right includes the 195.20-acre historical place of use located on property owned by SMR. Stillwater Mountain Ranch LLC owns the entire historical place of use associated with Water Right No. 76LJ 30175732.

29. When was the last time each water right proposed for change was appropriated and used beneficially?

Stillwater Mountain Ranch LLC acquired the property on September 21, 2020. Based on information provided by the current landowners, the historical place of use has not been irrigated since acquisition. Therefore, the last historical irrigation use occurred prior to September 21, 2020; the precise date of the last irrigation use by the prior owner is unknown. Water associated with the right was authorized for temporary use for dust suppression under a short-term water lease during 2026.

32. Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

See attached **Figure 4** – Proposed Water Use. The proposed use map depicts the infrastructure utilized to divert water from the river to the reservoir. The series of design drawings provided as

Attachment F including LI-1A/B, LI-2A/B, LI-3A/B, and LI-4A/B provide the golf course irrigation system layout including the hydraulic piping plans, electrical schematic plans, and irrigation plans. These figures depict the locations of the booster pump station located adjacent to the reservoir and show the proposed irrigation systems piping and sprinkler head layout.

33. Describe specific information about the capacity of all proposed diversionary structures.

The proposed Stillwater River diversion will utilize a Watertronics pump station, Model VTE-7C-50S/50S-480-3-1500-70. The station includes two 50-hp main pumps and is designed for a maximum station capacity of approximately 1,500 gpm, or 3.34 cfs, at 70 psi. The station also includes an 8-inch electromagnetic flow meter and automated controls for monitoring and operation of the diversion.

The river pumps will be controlled by variable-frequency drives (VFDs). Pump operating frequency (Hz) will be managed through the control system to regulate pump speed and ensure that the combined diversion from the Stillwater River does not exceed the authorized project flow rate of 1,500 gpm. Actual diversion will be continuously monitored using the electromagnetic flow meter.

A preliminary total dynamic head (TDH) evaluation was completed for the river transfer system. The evaluation assumes a Stillwater River water-surface elevation of approximately 2,976 feet, a proposed reservoir water-surface elevation of approximately 3,027 feet, approximately 1,650 feet of 12-inch HDPE conveyance piping, and a design flow of 1,500 gpm. The resulting static lift is approximately 51 feet. Estimated pipe-friction and minor losses result in a preliminary TDH of approximately 61 feet. The Watertronics station is rated as providing up to 1,500 gpm at 70 psi, equivalent to approximately 162 feet of pressure head, and therefore provides adequate hydraulic capacity to convey the authorized diversion from the Stillwater River to the proposed reservoir.

Water will be stored in the proposed 29.25-acre-foot lined irrigation reservoir before being pumped to the golf course irrigation system. The downstream golf course irrigation pump station is a Watertronics Model VTV-7C-75X3/5ST-480-3-2250-115 equipped with three 75-hp main pumps and a 5-hp sustain pump. The station is designed to deliver approximately 2,250 gpm at 115 psi to the underground golf course irrigation distribution system. The downstream 2,250-gpm irrigation-system capacity does not increase the instantaneous diversion from the Stillwater River; water stored in the reservoir provides the operational buffer between the 1,500-gpm river diversion and the higher-capacity golf course irrigation pump station.

Please refer to the following attachments for additional details:

Attachment C – Preliminary Total Dynamic Head Evaluation
Attachment D – Watertronics River Transfer Pump Station Information

Attachment E – Watertronics Golf Course Irrigation Pump Station Information

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use.

Water diverted from the Stillwater River at POD #1 will be conveyed approximately 1,650 feet through a 12-inch HDPE pressurized transfer pipeline to the proposed lined irrigation reservoir. The river pump station is designed to convey up to 1,500 gpm (3.34 cfs) to the reservoir.

The proposed lined irrigation reservoir will provide 29.25 acre-feet of storage and will serve as an operational buffer between the river diversion and the golf course irrigation system. The reservoir will have a surface area of 3.9 acres and a maximum depth of 15 feet.

Water will be withdrawn from the reservoir by the proposed 2,250-gpm Watertronics irrigation pump station and conveyed through the pressurized golf course irrigation distribution system. The irrigation system consists primarily of HDPE PE4710 piping and includes approximately 25,753 linear feet of irrigation mainline, 87,754 linear feet of 2-inch HDPE lateral piping, and 5,683 linear feet of 3-inch HDPE lateral piping.

The distribution system will convey water from the reservoir throughout the proposed 92.09-acre golf course place of use to individual irrigation zones and sprinkler heads.

Please refer to the following attachments for additional details:

Attachment B – Figure 4 - Proposed Water Use
Attachment D – Watertronics River Transfer Pump Station Information
Attachment E – Watertronics Golf Course Irrigation Pump Station Information
Attachment F – Golf Course Irrigation System Plans

36. Describe your plan of operations, including specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.

Water will be diverted from the Stillwater River at a maximum rate of 1,500 gpm (3.34 cfs), and conveyed through the river transfer system to the proposed lined irrigation reservoir. The river pumps will be controlled by VFDs, with pump frequency (Hz) managed to regulate the diversion rate and ensure that the authorized flow rate of 1,500 gpm is not exceeded. Diversion rates will be monitored using the electromagnetic flow meter incorporated into the river transfer pump station.

The reservoir will provide 29.25 acre-feet of operational storage and will allow the rate of water delivery to the golf course irrigation system to vary independently of the instantaneous diversion rate from the Stillwater River.

Water will be withdrawn from the reservoir by the proposed Watertronics irrigation pump station, which is designed to deliver up to 2,250 gpm at 115 psi. Water will be distributed through the underground pressurized irrigation system to individual irrigation zones and sprinkler heads throughout the 92.09-acre golf course place of use.

Irrigation will be managed by zone based on turf requirements and operating conditions. Greens and tee areas may receive more frequent irrigation, while fairways and other lower-priority areas may receive reduced irrigation during periods of lower demand or water shortage. Operation of individual irrigation zones will allow water application to be adjusted throughout the golf course while remaining within the authorized diversion rate and annual volume.

Form 606 Attachments:

The following attachments are provided in support of this application:

Attachment A – Signed Form 606 and Form 606-SA
Attachment B – Figures and Project Maps
Attachment C – Preliminary Total Dynamic Head Evaluation
Attachment D – Watertronics River Transfer Pump Station Information
Attachment E – Watertronics Golf Course Irrigation Pump Station Information
Attachment F – Golf Course Irrigation System Plans
Attachment G – Documentation of Signing Authority

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at 406-309-6085 or bbennett@waterenvtech.com.

Sincerely,

Brad Bennett
Senior Hydrogeologist
Water & Environmental Technologies

Attachment A

Signed Form 606 and Form 606-SA

APPLICATION TO CHANGE A WATER RIGHT

§ 85-2-302, MCA

Form No. 606 *(Revised 10/2025)*

For Department Use Only

RECEIVED
DNRC Water Resources

SEP 14 2026

Kalispell Unit

Application # 30172463 Basin 76 LJ
Priority Date 9/14/26 Time 12:30 AM/PM
Rec'd By _____
Fee Rec'd $ 1000.00 Check # 1529/1530
Deposit Receipt # KLU2705000 and KLU2705001
Payor Water & Environmental Tech inc
Refund $ _____ Date _____

FILING FEE

$2500/$1500 – Without/with filing fee reduction.

$400 – ***(The following types do not qualify for a filing fee reduction)***

- **Replacement well greater than 200 feet from original**
- **Replacement reservoir on the same source**

INFORMATION

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)). If application is eligible for a filing fee reduction, $500 paid for Form 606P-B will be credited toward filing fees shown above.

Applicant Information: *Add more as necessary.*

Applicant Name Stillwater Mountain Ranch LLC, Attn Stacy Smith
Mailing Address 7854 Farm to Market Rd City Whitefish State MT Zip 59937
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Contact/Representative Information: *Add more as necessary.*

Contact/Representative is: ☐ Applicant ☑ Consultant ☐ Attorney ☐ Other
Contact/Representative Name Water & Environmental Technologies - Brad Bennett
Mailing Address 102 Cooperative Way, Suite 100 City Kalispell State MT Zip 59901
Phone Numbers: Home _____ Work 406-309-6085 Cell _____
Email Address bbennett@waterenvtech.com

NOTE: *If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary (ARM 36.12.122(2)). If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondence and a copy may be sent to the contact person (ARM 36.12.122(3)).*

Answer every question and applicable follow-up questions. Use the checkboxes to denote yes ("Y"), no ("N"), or not applicable ("NA"). Questions that require items to be submitted to the Department have a submitted ("S") checkbox, which is marked when the required item is attached to the Application. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, specify "see attachment" on this form, and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and "see attachment" must be entered as a response to the relevant question. Clearly label all units in tables and narrative responses.

PREAPPLICATION AND TECHNICAL ANALYSES INFORMATION

1. ☑ **Y** ☐ **N** Do you elect for Department technical analyses to be used for criteria assessment?

2. ☑ **Y** ☐ **N** Did you have a preapplication meeting AND complete a Change Preapplication Meeting Form Part A and Part B (Form 606P-A and 606P-B)?

IF QUESTION 2 IS NO, answer 2.a and 2.b:

2.a. ☐ **S** Submit the Technical Analyses Addendum (Form 606-TAA).

2.b. ☐ **S** ☐ **NA** Submit the technical analyses, if you elected in question 1 for Applicant technical analyses to be used for criteria assessment. Select "NA" if you elected for Departmental technical analyses.

IF QUESTION 2 IS YES, answer 2.c, 2.d, and 2.e:

2.c. ☐ **Y** ☑ **N** Has any element of the project described in this application changed from the mandatory elements of the project described in the completed Form 606P? **If yes,**

2.c.i. Please explain.

_____

_____

_____

_____

_____

_____

2.c.ii. ☐ **S** Submit the Technical Analyses Addendum (Form 606-TAA).

2.d. ☑ **Y** ☐ **N** Are the technical analyses to be used for criteria assessment exactly the same as those completed during the preapplication process? **If no:**

2.d.i. Please explain.

_____

_____

_____

_____

_____

2.d.ii. ☐ **S** Submit the Technical Analyses Addendum (Form 606-TAA).

2.e. ☑ **Y** ☐ **N** Did you elect in question 1 for Department technical analyses to be used for criteria assessment? **If no:**

2.e.i. ☐ **S** Submit the technical analyses.

APPLICATION ADDENDA AND REVIEW

3. ☑ **S** ☐ **NA** If the proposed change involves one or more places of storage, submit a Change Storage Addendum (Form 606-SA). This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).

4. ☐ **S** ☑ **NA** If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, submit a Reasonable Use Addendum (Form 606-B).

5. ☐ **S** ☑ **NA** If the project involves out-of-state water use, submit an Out-of-State Use Addendum (Form 600/606-OSA).

6. ☐ **S** ☑ **NA** If the proposed purposes include marketing or selling water, submit a Water Marketing Purpose Addendum (Form 600/606-WMA). This doesn't include marketing for mitigation/aquifer recharge.

7. ☐ **S** ☑ **NA** If the proposed purpose includes instream flow, submit a Change to Instream Flow Addendum (Form 606-IFA).

8. ☐ **S** ☑ **NA** If the proposed purposes include mitigation, aquifer recharge, or marketing for mitigation/ aquifer recharge, submit a Mitigation Purpose Addendum (Form 606/606-MIT).

9. ☐ **S** ☑ **NA** If the project is in designated sage grouse habitat, submit a review letter from the Montana Sage Grouse Habitat Conservation Program.

10. ☐ **S** ☑ **NA** If you propose to add a point of diversion or place of use on State of Montana Trust Land, submit documentation of consent from DRNC Trust Lands Management Division. If you propose to add a place of use on Trust Land with all points of diversion on private land, then, at a minimum, that component of the change authorization will be temporary for the duration of the lease term (§ 85-2-441, MCA).

11. ☐ **Y** ☑ **NA** You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to § 85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.

APPLICATION DETAILS

12. How many change applications will be needed for this project? Refer to ARM 36.12.1305 for more information. 1

13. Fill out the table below for the water rights proposed for change.

Water Right No.	**Current Authorized Flow Rate**			**Flow Rate Needed for Project**			**Means of Diversion**
	Flow	*GPM*	*CFS*	*Flow*	*GPM*	*CFS*	
76LJ 30175732	5.57	☐	☑	3.34	☐	☑	Pump
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	

14. Is the source surface water or groundwater? surface water

15. What is the source name? Stillwater River

16. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.

Water Right No.	76LJ 30175732				
Point of Diversion	☑	☐	☐	☐	☐
Place of Use	☑	☐	☐	☐	☐
Purpose of Use	☐	☐	☐	☐	☐
Place of Storage	☑	☐	☐	☐	☐

17. ☑ **S** Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary, to clearly convey all required information.

18. ☑ **S** Submit a proposed use map created on an aerial photograph or topographic map that shows section corners, township and range, scale bar, north arrow, and the following elements: points of diversion labeled with a unique POD ID ("P" followed by a number), places of use, conveyance structures, places of storage, and place of use for all overlapping water rights. Include all elements that will be on the water rights after the proposed change, regardless of whether the element will be modified by the change. The map should fully depict the water rights, as proposed, after the change. More than one map may be submitted, if necessary, to clearly convey all required information.

19. ☑ **Y** ☐ **N** Does the proposed change involve a change in point of diversion?

IF YES,

19.a. Describe the location for all *new* and *unchanged* points of diversion to the nearest 10 acres. Label POD ID with the same POD ID number assigned for the proposed use map (question 18).

POD ID	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged
P1	SE	SE	NW	14	31N	23W	Flathead						New

19.b. ☑ **NA** Describe the location of all historical PODs you propose to *retire*. Label POD ID with the same POD ID assigned for the historical use map (question 17). If none are proposed for retirement, select "NA" checkbox.

POD ID	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot
H1	NW	NW	SE	14	31N	23W	Flathead					

19.c. What is the means of diversion for all *new* PODs? Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

pump

20. ☑ **Y** ☐ **N** Does the proposed change involve a change in place of use?

IF YES,

20.a. What are the geocodes of the proposed place of use?

07429110401110000	07429114201030000
07429111301100000	07429114301100000
07429115101190000	07429114401130000
07429114201050000	
07429114201010000	

20.b. Describe the legal land description of the proposed place of use, and if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County
See Attachment								
	Total							

21. ☑ **Y** ☐ **N** Does the proposed change involve a change in place of use or purpose?

IF YES,

21.a. ☐ **Y** ☑ **N** Do other water rights supplement or overlap the proposed place of use?

IF YES,

21.a.i. How will the water rights be operated to serve the proposed purposes?

_____

_____

_____

_____

21.a.ii. For each supplemental or overlapping water right, please list the average period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed.

Water Right No.	**Avg. Period of Diversion**	**Avg. Period of Use**	**Flow Rate**			**Volume Contributed**
	MM/DD-MM/DD	*MM/DD-MM/DD*	*Flow*	*GPM*	*CFS*	*AF*
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

22. ☐ **Y** ☑ **N** Are you filing on behalf of another entity? If yes, describe.

_____

_____

23. ☑ **Y** ☐ **N** Do you own the entire historical place of use for all water rights proposed for change?

IF QUESTION 23 IS NO,

23.a. ☐ **Y** ☐ **N** Was the water historically used for sale, rental, distribution, municipal use, or any other context in which water is being supplied to another and it is clear that the ultimate user would not accept the supply without consenting to the use of water on the user's place of use?

IF QUESTION 23.a IS NO,

23.a.i. ☐ **Y** ☐ **N** List the water rights for which you do not own the entire historical place of use.

_____

23.a.ii. ☐ **Y** ☐ **N** Are the water rights listed in question 23.a.i severed from the historical place of use?

IF QUESTION 23.a.ii IS YES,

23.a.ii.1. ☐ **Y** ☐ **N** Do you own the entirety of the severed water rights proposed for change? If yes, skip to question 24. If no, answer question 23.a.iii.

IF QUESTION 23.a.ii OR 23.a.ii.1 IS NO,

23.a.iii. ☐ **Y** ☐ **N** ☐ **NA** Are all owners of the historical place of use or, if applicable, owners of the severed water rights, willing to sign the application?

IF QUESTION 23.a.iii IS NO,

23.a.iii.1. ☐ **S** Submit a Form 641 or 642 to split the water rights being changed for which all owners will not sign.

ADVERSE EFFECT

24. Explain how you can control your diversion in response to a call being made.

The proposed diversion from the Stillwater River will be controlled by the river pump station. In response to a valid call, Stillwater Mountain Ranch LLC can reduce the pumping rate or discontinue pumping from the Stillwater River as necessary to comply with administration of the water right.

25. Describe any plans you have for ensuring existing water rights will be satisfied during times of water shortage.

During periods of water shortage, Stillwater Mountain Ranch LLC will operate the proposed diversion consistent with the priority date and conditions of Water Right No. 76LJ 30175732. The river pump station allows the diversion rate to be reduced or discontinued as necessary to satisfy valid calls by senior water right users. The irrigation reservoir will provide operational flexibility, and the zoned golf course irrigation system will allow water to be prioritized to higher-demand areas, such as greens and tees, while irrigation to fairways, rough, and other less critical areas can be reduced or discontinued.

26. ☐ **Y** ☑ **N** Are you aware of any calls that have been made on the source of supply or, if groundwater, on nearby surface water sources?

26.a. If yes, explain.

27. Describe how the proposed change will or will not affect your ability to make call.

The proposed change will not affect Stillwater Mountain Ranch LLC's ability to make call. Water Right No. 76LJ 30175732 will retain its May 14, 1973 priority date and Stillwater River source. The proposed change does not alter the priority or ability to exercise the water right.

28. ☐ **Y** ☑ **N** Does a water commissioner distribute water or oversee water distribution on your proposed source, or if groundwater, on nearby surface water sources?

28.a. If yes, list the sources.

29. When was the last time each water right proposed for change was appropriated and used beneficially?
Prior to September 21, 2020 - see attached narrative.

IF THERE HAS BEEN A PERIOD OF NONUSE,

29.a. Why was the water right not used?
Stillwater Mountain Ranch, LLC acquired the property and associated water right on September 21, 2020, after which irrigation ceased while the owner pursued land-use planning, design, and development of the property, including the proposed golf course and associated irrigation system.

29.b. Why will a resumption of use not adversely affect other water users?
Resumption of use will occur under the proposed change authorization and will not increase the historical consumptive use of the water right or expand its historical effect on the source. The proposed diversion, place of use, and irrigation operation have been designed to maintain the historical pattern of depletion and protect existing water rights.

29.c. ☐ **Y** ☑ **N** Is the period of nonuse greater than 10 years for any of the water rights proposed for change? If yes, list which water rights.

29.d. ☑ **Y** ☐ **N** Have new water rights been authorized to use the source during the period of nonuse for any of the water rights proposed for change? If yes, explain.
Provisional Permit 76LJ 30163639 was authorized with a priority date of May 29, 2025. The use of ~~water under Water Right No. 76LJ 30175732 was considered in the legal demand (as 76LJ 9218) and legal availability analyses completed for the proposed change.~~

30. ☐ **Y** ☑ **N** Do you propose to add one or more points of diversion or use new or existing conveyance infrastructure that will be shared with one or more existing water rights?

30.a. If yes, describe how the capacity of the shared points of diversion and/or conveyance infrastructure is sufficient for all water rights and how the proposed project will not adversely affect these water rights.

31. ☐ **NA** Answer questions 31.a to 31.b for point of diversion changes. If you do not propose a point of diversion change, mark "NA" instead.

31.a. Are the proposed points of diversion upstream or downstream of the historical points of diversion?

The proposed POD is located at the corrected historical POD and is upstream of the historically claimed POD. The claimed POD is located in the NW¼ NW¼ SE¼ of Section 14, while the corrected historical/proposed POD is located in the SE¼ SE¼ NW¼ of Section 14.

31.b. ☐ **Y** ☑ **N** Are there intervening water users between the historical and proposed points of diversion?

31.b.i. If yes, list the water rights.

ADEQUATE MEANS OF DIVERSION AND OPERATION

32. ☑ **S** Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

33. Describe specific information about the capacity of all proposed diversionary structures. This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length.

Please refer to the attached narrative.

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use.

Please refer to the attached narrative.

35. ☐ **Y** ☑ **N** Does the proposed conveyance require easements?

35.a. If yes, explain.

36. Describe your plan of operations, including specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.
Please refer to the attached narrative.

37. ☑ **Y** ☐ **N** ☐ **NA** If you propose to add one or more points of diversion, do you own the land where all proposed points of diversion are located? If you do not propose to add one or more points of diversion, mark "NA" instead.

37.a. ☐ **S** If no, submit documentation to show you have the right to use all points of diversion located on each property you do not own. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.

38. ☐ **Y** ☑ **N** Will your system be designed to discharge water from the project?

38.a. If yes, explain the wastewater disposal method.
NA - The proposed system is not designed to discharge water from the project. Water diverted under the water right will be stored in the irrigation reservoir and subsequently applied to the golf course for irrigation. Any water leaving the place of use would be limited to incidental irrigation return flow or drainage resulting from water applied to the irrigated areas and not consumed through evapotranspiration. No separate or intentional wastewater discharge is proposed.

38.b. ☐ **Y** ☐ **N** ☑ **NA** Have the necessary permits been obtained to comply with §§ 75-5-410 and/or 85-2-364, MCA?

39. ☐ **Y** ☑ **N** Is the means of diversion for any proposed point of diversion a well?

IF YES,

39.a. ☐ **Y** ☐ **N** Have all wells been drilled?

39.b. For all wells that have been drilled, what is the name of the well driller and, if available, what is their license number?

39.c. ☐ **Y** ☐ **N** ☐ **NA** For all wells yet to be drilled, will a licensed well driller construct the wells? If no wells are yet to be drilled, mark "NA" instead.

39.d. ☐ **S** ☐ **NA** Submit any well logs not yet submitted to the Department, such as for wells drilled after submittal of Form 606P. If all well logs have been submitted to the Department, mark "NA."

BENEFICIAL USE

40. ☑ **Y** ☐ **N** Does the Department have a standard period of diversion, period of use, flow rate, and/or volume for any of the purposes for which water is used? Department standards can be found in the DNRC Water Calculation Guide, ARM 36.12.112, ARM 36.12.115, and ARM 36.12.1902.

40.a. If yes, list the purposes for which the Department has a standard and note whether the water use falls within or outside the standard.

Irrigation - The proposed use falls within Department standards.

40.b. For any of the purposes with no Department standard or with proposed beneficial use that falls outside of Department standards, explain how the use is reasonable for that purpose.

41. ☐ **Y** ☑ **N** Will your proposed project be subject to Montana Department of Environmental Quality (DEQ) requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?

42. ☐ **Y** ☑ **N** Are you proposing to use surface water for in-house domestic use?

42.a. ☐ **Y** ☐ **N** If yes, does a COSA exist for the proposed place of use?

42.a.i. ☐ **S** If yes, submit the COSA.

POSSESSORY INTEREST

43. ☐ **Y** ☑ **N** Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802 and § 85-2-402(2)(d), MCA? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use, and applications for the purposes of instream flow, mitigation, and marketing for mitigation.

43.a. If yes, explain.

_____

_____

_____

44. ☑ **Y** ☐ **N** ☐ **NA** Do you own all proposed places of use? Mark "NA" if you meet one of the exceptions to the possessory interest requirement.

44.a. ☐ **S** If no, explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the proposed place of use.

_____

_____

_____

PROPOSED COMPLETION PERIOD

45. How many years will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 618)? 5 years

46. Describe why this amount of time is needed to complete this project.

The requested five-year completion period will accommodate phased construction of the golf course and associated water infrastructure, including the diversion, reservoir, pump stations, conveyance, and irrigation systems. The requested period will also provide sufficient time for system commissioning, turf establishment, and placement of the complete system into beneficial use.

AFFIDAVIT & CERTIFICATION

Read carefully before you sign and review with legal counsel if you have any questions. All owners (or trustees) must sign the form. ***If the owner is a business or trust, include the title of the representative(s) signing the form (i.e., president, trustee, managing partner, etc.) and provide documentation that establishes the authority of the representative to sign the application.*

I affirm the information provided for this application is to the best of my knowledge true and correct. If a preapplication meeting form was submitted, I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if upon submittal of the application to the Department, I changed any element of the proposed application from the preapplication meeting form and follow-up materials (ARM 36.12.1302(6)(a)).

I affirm I have possessory interest, or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use, unless this application meets an exception to the possessory interest requirements in ARM 36.12.1802(1)(b).

I understand that making a false statement under oath or affirmation in this application and official proceedings throughout the examination of my application may subject me to prosecution under § 45-7-202, MCA, a misdemeanor punishable by a jail term not to exceed 6 months or a fine not to exceed $500, or both. I have read this Affidavit and understand the terms and conditions.

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Printed Name Stacy Smith - Managing Partner

Applicant Signature DocuSigned by: Stacy Smith 8E2213B06574B5... Date: 9/9/2026

Printed Name _____

Applicant Signature _____ Date: _____

Printed Name _____

Applicant Signature _____ Date: _____

Form No. 606-SA (02/2025) Applicant Name Stillwater Mountain Ranch

APPLICATION FOR TO CHANGE A WATER RIGHT
CHANGE STORAGE ADDENDUM
§ 85-2-402, MCA

Complete this addendum one time for each place of storage and attach the required information. ****A place of storage does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).*** *Use the checkboxes to denote yes ("Y") or no ("N"). Questions that require Applicant to submit items to the Department have a submitted ("S") checkbox, which is marked when the required item is attached to the Storage Addendum. Label all submitted items with the question number for which they were submitted. Responses that are larger than the space provided can be answered in an attachment. If an attachment is used, specify "see attachment" on this form. Label all attachments with the question number.*

1. ☐ **Y** ☑ **N** Does the proposal include more than one place of storage?

   a. If yes, for what place of storage are you filling out this addendum? Use the unique Storage ID number assigned on the project map submitted with Form 606. When referencing question numbers in attachments or submittals, use the following format: Question number – Storage ID number. For example, "1.b-S1":

2. ☐ **Y** ☑ **N** Do you propose to enlarge an existing reservoir?

   a. If yes, list all water right numbers associated with the existing reservoir.

3. ☑ **S** Submit preliminary design specifications.

4. ☐ **Y** ☑ **N** Will a drainage device be installed in the place of storage?

   a. If yes, explain.

5. ☐ **Y** ☑ **N** Is the place of storage capacity calculated to be greater than 50 acre-feet?

   a. ☐ **S** If yes, submit proof of an application to the DNRC Water Operations Bureau for a determination of whether the dam or reservoir is a high-hazard dam and, if available, the classification assigned by the DNRC Water Operations Bureau.

Water & Environmental
TECHNOLOGIES

September 9, 2026

Jim Ferch
DNRC Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901

Re: Form 606 Application to Change Water Right No. 76LJ 30175732 – Stillwater Mountain Ranch LLC

Dear Jim:

The purpose of this correspondence is to submit the Application to Change a Water Right (Form 606) for Water Right No. 76LJ 30175732 on behalf of Stillwater Mountain Ranch LLC (SMR).

The proposed change will support irrigation of the golf course being developed at Stillwater Mountain Ranch near Whitefish, Montana. The application proposes to utilize the corrected historical diversion location on the Stillwater River, modify the place of use to include 92.09 acres of golf course irrigation, and add a 29.25-acre-foot irrigation storage reservoir. Supporting documentation is provided as necessary to supplement the Form 606 and associated Change Storage Addendum (Form 606-SA).

The following information and attachments are provided in support of the Form 606 application.

Form No. 606 Responses

As required, the following responses are provided in support of the attached Form 606 where space limitations precluded providing a complete explanation within the form itself.

3. Change Storage Addendum (Form 606-SA) – Preliminary Design Specifications

The proposed place of storage consists of an excavated, lined irrigation storage basin with a surface area of 3.9 acres, maximum depth of 15 feet, and storage capacity of 29.25 acre-feet. The basin will be constructed by excavation and will not rely on an embankment dam for impoundment. No drainage device is proposed. Water will be conveyed to the basin from the Stillwater River at a maximum rate of 1,500 gpm (3.34 cfs) and withdrawn from the basin by the golf course irrigation pump station, which has a design capacity of 2,250 gpm. See the attached project plans for the preliminary configuration and design of the proposed storage basin.

11. You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to § 85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.

NA – The proposed point of diversion and conveyance system will be located entirely on property owned by Stillwater Mountain Ranch LLC and will not be shared with any other water right owner. Although the original water right historically served places of use on multiple ownership parcels, the water right has since been split. The other water right owners do not have an easement or other legal access to the proposed point of diversion or conveyance system located on Stillwater Mountain Ranch property.

17. Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary, to clearly convey all required information.

See attached **Figures 1 through 3** – Historical Water Use. The figures depict the historical point of diversion and irrigation conveyance system, the original 287.6-acre place of use associated with Water Right No. 76LJ 9218-00, the 195.2-acre historical place of use associated with Water Right No. 76LJ 30175732, and the 3.4-acre place of use associated with Water Right No. 76LJ 30174766. Historical aerial imagery from 1974, 1990, and 2011 is provided to illustrate the historical irrigation configuration and use of the property.

18. Submit a proposed use map created on an aerial photograph or topographic map that shows section corners, township and range, scale bar, north arrow, and the following elements: points of diversion labeled with a unique POD ID ("P" followed by a number), places of use, conveyance structures, places of storage, and place of use for all overlapping water rights. Include all elements that will be on the water rights after the proposed change, regardless of whether the element will be modified by the change. The map should fully depict the water rights, as proposed, after the change.

See attached **Figure 4** – Proposed Water Use. Figure 4 depicts proposed POD P1 on the Stillwater River, the proposed 12-inch HDPE conveyance main, the proposed 29.25-acre-foot irrigation storage reservoir, and the proposed 92.09-acre golf course irrigation place of use.

19.b. Describe the location of all historical PODs you propose to retire.

The historical point of diversion identified as H1 will be retired as an authorized point of diversion for Water Right No. 76LJ 30175732 as part of the proposed change. During the preapplication process, WET identified that the legal land description previously associated with H1 did not

accurately reflect the physical location of the historical diversion structure. A request was submitted to correct the water right record to reflect the actual historical location of the diversion works. The correction is administrative in nature and does not represent a change in the historical point of diversion. The proposed change will replace H1 with the new point of diversion identified as P1.

20.b. Describe the legal land description of the proposed place of use, and if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Gov't Lot	¼	¼	Sec.	Twp.	Rge.	County
18.48		S2	SE	10	31N	23W	Flathead
3.34		SW	SW	11	31N	23W	Flathead
19.44		N2	NW	14	31N	23W	Flathead
31.37		S2	NW	14	31N	23W	Flathead
4.50		N2	SW	14	31N	23W	Flathead
2.47		NW	SE	14	31N	23W	Flathead
10.45		NE	NE	15	31N	23W	Flathead
2.04		SE	NE	15	31N	23W	Flathead
92.09							

23. Do you own the entire historical place of use for all water rights proposed for change?

Yes. Water Right No. 76LJ 30175732 was created through a split of Water Right No. 76LJ 9218-00 following completion of the preapplication process. The split right includes the 195.20-acre historical place of use located on property owned by SMR. Stillwater Mountain Ranch LLC owns the entire historical place of use associated with Water Right No. 76LJ 30175732.

29. When was the last time each water right proposed for change was appropriated and used beneficially?

Stillwater Mountain Ranch LLC acquired the property on September 21, 2020. Based on information provided by the current landowners, the historical place of use has not been irrigated since acquisition. Therefore, the last historical irrigation use occurred prior to September 21, 2020; the precise date of the last irrigation use by the prior owner is unknown. Water associated with the right was authorized for temporary use for dust suppression under a short-term water lease during 2026.

32. Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

See attached **Figure 4** – Proposed Water Use. The proposed use map depicts the infrastructure utilized to divert water from the river to the reservoir. The series of design drawings provided as

Attachment F including LI-1A/B, LI-2A/B, LI-3A/B, and LI-4A/B provide the golf course irrigation system layout including the hydraulic piping plans, electrical schematic plans, and irrigation plans. These figures depict the locations of the booster pump station located adjacent to the reservoir and show the proposed irrigation systems piping and sprinkler head layout.

33. Describe specific information about the capacity of all proposed diversionary structures.

The proposed Stillwater River diversion will utilize a Watertronics pump station, Model VTE-7C-50S/50S-480-3-1500-70. The station includes two 50-hp main pumps and is designed for a maximum station capacity of approximately 1,500 gpm, or 3.34 cfs, at 70 psi. The station also includes an 8-inch electromagnetic flow meter and automated controls for monitoring and operation of the diversion.

The river pumps will be controlled by variable-frequency drives (VFDs). Pump operating frequency (Hz) will be managed through the control system to regulate pump speed and ensure that the combined diversion from the Stillwater River does not exceed the authorized project flow rate of 1,500 gpm. Actual diversion will be continuously monitored using the electromagnetic flow meter.

A preliminary total dynamic head (TDH) evaluation was completed for the river transfer system. The evaluation assumes a Stillwater River water-surface elevation of approximately 2,976 feet, a proposed reservoir water-surface elevation of approximately 3,027 feet, approximately 1,650 feet of 12-inch HDPE conveyance piping, and a design flow of 1,500 gpm. The resulting static lift is approximately 51 feet. Estimated pipe-friction and minor losses result in a preliminary TDH of approximately 61 feet. The Watertronics station is rated as providing up to 1,500 gpm at 70 psi, equivalent to approximately 162 feet of pressure head, and therefore provides adequate hydraulic capacity to convey the authorized diversion from the Stillwater River to the proposed reservoir.

Water will be stored in the proposed 29.25-acre-foot lined irrigation reservoir before being pumped to the golf course irrigation system. The downstream golf course irrigation pump station is a Watertronics Model VTV-7C-75X3/5ST-480-3-2250-115 equipped with three 75-hp main pumps and a 5-hp sustain pump. The station is designed to deliver approximately 2,250 gpm at 115 psi to the underground golf course irrigation distribution system. The downstream 2,250-gpm irrigation-system capacity does not increase the instantaneous diversion from the Stillwater River; water stored in the reservoir provides the operational buffer between the 1,500-gpm river diversion and the higher-capacity golf course irrigation pump station.

Please refer to the following attachments for additional details:

Attachment C – Preliminary Total Dynamic Head Evaluation
Attachment D – Watertronics River Transfer Pump Station Information

Attachment E – Watertronics Golf Course Irrigation Pump Station Information

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use.

Water diverted from the Stillwater River at POD #1 will be conveyed approximately 1,650 feet through a 12-inch HDPE pressurized transfer pipeline to the proposed lined irrigation reservoir. The river pump station is designed to convey up to 1,500 gpm (3.34 cfs) to the reservoir.

The proposed lined irrigation reservoir will provide 29.25 acre-feet of storage and will serve as an operational buffer between the river diversion and the golf course irrigation system. The reservoir will have a surface area of 3.9 acres and a maximum depth of 15 feet.

Water will be withdrawn from the reservoir by the proposed 2,250-gpm Watertronics irrigation pump station and conveyed through the pressurized golf course irrigation distribution system. The irrigation system consists primarily of HDPE PE4710 piping and includes approximately 25,753 linear feet of irrigation mainline, 87,754 linear feet of 2-inch HDPE lateral piping, and 5,683 linear feet of 3-inch HDPE lateral piping.

The distribution system will convey water from the reservoir throughout the proposed 92.09-acre golf course place of use to individual irrigation zones and sprinkler heads.

Please refer to the following attachments for additional details:

Attachment B – Figure 4 - Proposed Water Use
Attachment D – Watertronics River Transfer Pump Station Information
Attachment E – Watertronics Golf Course Irrigation Pump Station Information
Attachment F – Golf Course Irrigation System Plans

36. Describe your plan of operations, including specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.

Water will be diverted from the Stillwater River at a maximum rate of 1,500 gpm (3.34 cfs), and conveyed through the river transfer system to the proposed lined irrigation reservoir. The river pumps will be controlled by VFDs, with pump frequency (Hz) managed to regulate the diversion rate and ensure that the authorized flow rate of 1,500 gpm is not exceeded. Diversion rates will be monitored using the electromagnetic flow meter incorporated into the river transfer pump station.

The reservoir will provide 29.25 acre-feet of operational storage and will allow the rate of water delivery to the golf course irrigation system to vary independently of the instantaneous diversion rate from the Stillwater River.

Water will be withdrawn from the reservoir by the proposed Watertronics irrigation pump station, which is designed to deliver up to 2,250 gpm at 115 psi. Water will be distributed through the underground pressurized irrigation system to individual irrigation zones and sprinkler heads throughout the 92.09-acre golf course place of use.

Irrigation will be managed by zone based on turf requirements and operating conditions. Greens and tee areas may receive more frequent irrigation, while fairways and other lower-priority areas may receive reduced irrigation during periods of lower demand or water shortage. Operation of individual irrigation zones will allow water application to be adjusted throughout the golf course while remaining within the authorized diversion rate and annual volume.

Form 606 Attachments:

The following attachments are provided in support of this application:

Attachment A – Signed Form 606 and Form 606-SA
Attachment B – Figures and Project Maps
Attachment C – Preliminary Total Dynamic Head Evaluation
Attachment D – Watertronics River Transfer Pump Station Information
Attachment E – Watertronics Golf Course Irrigation Pump Station Information
Attachment F – Golf Course Irrigation System Plans
Attachment G – Documentation of Signing Authority

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at 406-309-6085 or bbennett@waterenvtech.com.

Sincerely,

Brad Bennett
Senior Hydrogeologist
Water & Environmental Technologies

Attachment B

Figures and Project Maps

LEGEND

- POINT OF DIVERSION
- PLACE OF USE
- PLACE OF STORAGE

TOTAL IRRIGATED AREA

- PROPOSED TEE BOXES
- PROPOSED GREENS
- PROPOSED FAIRWAYS
- PROPOSED BUNKERS

TOTAL IRRIGATED AREA = 92.09 ACRES

TEE BOXES	=	4.51 ACRES
GREENS	=	4.72 ACRES
FAIRWAYS	=	82.86 ACRES

SECTION 11
T31N R23W
SW1/4

SECTION 14
T31N R23W

SECTION 10
T31N R23W
SE1/4

SECTION 15
T31N R23W
NE1/4

STILLWATER RIVER

FARM TO MARKET ROAD

POD P1

12" HDPE MAIN

Reservoir #1
Depth 15 Feet
Surface Area 169,884 Sq Ft
Capacity 29.25 Acre-feet

NW1/4

SE1/4

SW1/4

0 250 500 FEET

No	Description	Date	Drawn By

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Water & Environmental TECHNOLOGIES
102 Cooperative Way
Suite 100
Kalispell, MT 59901
(406) 756-2550
watenvtech.

PROPOSED WATER USE

PROJECT NAME: HOMESTEAD GOLF COURSE
LOCATION: FLATHEAD COUNTY, MT
FILE NO.: HomesteadGC Water Rights Figure - Golf Course.dwg

JOB NO:	1900-25
DATE:	5/13/26
DRAFTER:	ZH
CHECKED BY:	BB

SHEET
FIG. 4

P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\350 - Mapping\ACAD\HomesteadGC Water Rights Figure - Golf Course.dwg PLOT DATE 2026-5-13 08:27 USER: zhelferman

Point of Diversion
Irrigation Mainline
Original Place of Use for Water Right 76LJ 9218-00
Place of Use for Water Right 76LJ 30175732
Place of Use for Water Right 76LJ 30174766
Stillwater Mountain Ranch Property Boundary

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	BB
2	UPDATE WR NUMBERS	9/9/26	LG	BB
3				
4				
5				

Aerial Imagery: 2011

Place of Use for 76LJ 30175732: 195.2 Acres

Original Place of Use for 76LJ 9218-00: 287.6 Acres

Place of Use for 76LJ 30174766: 3.4 Acres

POD H-1
76LJ 9218-00

31N 23W

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
Highway 93 N
US Highway 93 W
US Highway 93 W
Wild Horse Ranch
Raccoon Trl
Graham Ln

0 300 600 1,200 1,800 2,400 Feet

HISTORICAL WATER USE
76LJ 30175732 & 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 3

JOB#: 1900-25
DATE: 9/9/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\350 - Mapping\GIS\WR figures\WR figures.aprx, Author: lgeorge

Water & Environmental TECHNOLOGIES

Point of Diversion
Irrigation Mainline
Original Place of Use for Water Right 76LJ 9218-00
Place of Use for Water Right 76LJ 30175732
Place of Use for Water Right 76LJ 30174766
Stillwater Mountain Ranch Property Boundary

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	BB
2	UPDATE WR NUMBERS	9/9/26	LG	BB
3				
4				
5				

Aerial Imagery: 1974

Place of Use for 76LJ 30175732: 195.2 Acres

Original Place of Use for 76LJ 9218-00: 287.6 Acres

Place of Use for 76LJ 30174766: 3.4 Acres

POD H-1 76LJ 9218-00

31N 23W

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
US Highway 93 W
Highway 93 N
Wild Horse Ranch
Raccoon Trl
Graham Ln

0 300 600 1,200 1,800 2,400 Feet

HISTORICAL WATER USE
76LJ 30175732 & 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 1

JOB#: 1900-25
DATE: 9/9/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\350 - Mapping\GIS\WR\figures\WRfigures.aprx, Author: lgeorge

Water & Environmental TECHNOLOGIES

Point of Diversion
Irrigation Mainline
Original Place of Use for Water Right 76LJ 9218-00
Place of Use for Water Right 76LJ 30175732
Place of Use for Water Right 76LJ 30174766
Stillwater Mountain Ranch Property Boundary

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	BB
2	UPDATE WR NUMBERS	9/9/26	LG	BB
3				
4				
5				

Aerial Imagery: 1990

Place of Use for 76LJ 30175732: 195.2 Acres

Original Place of Use for 76LJ 9218-00: 287.6 Acres

Place of Use for 76LJ 30174766: 3.4 Acres

POD H-1
76LJ 9218-00

31N 23W

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
US Highway 93 W
Highway 93 N
Wild Horse Ranch
Raccoon Trl
Graham Ln

0 300 600 1,200 1,800 2,400 Feet

HISTORICAL WATER USE
76LJ 30175732 & 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 2

JOB#: 1900-25
DATE:9/9/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\350-Mapping\GIS\WRfigures\WRfigures.aprx, Author: lgeorge

Water & Environmental TECHNOLOGIES

Attachment C

Preliminary Total Dynamic Head Evaluation

Total Dynamic Head Evaluation

Stillwater Mountain Ranch / Homestead Golf Course
Water Right No. 76LJ 30175732

Design Basis and Assumptions

Parameter	Value	Basis / Note
Design flow	1,500 gpm (3.34 cfs)	Watertronics river-transfer station design
Transfer pipeline	Approx. 1,650 ft of 12-in HDPE	Proposed alignment; length estimated from project figures
Pipe assumption	12-in IPS PE4710 DR13.5; ID approx. 10.86 in	Preliminary assumption; final DR/ID to be confirmed
River water-surface elevation	Approx. 2,976 ft	Google Earth planning-level estimate
Reservoir water-surface elevation	Approx. 3,027 ft	Google Earth planning-level estimate
Hazen-Williams C	150	Engineering assumption for new HDPE
Minor-loss allowance	5 ft	Planning-level allowance for entrance, valves, fittings, and discharge

Hydraulic Calculation

Static lift = 3,027 ft - 2,976 ft = 51.0 ft

Pipe friction. Using the Hazen-Williams equation for 1,500 gpm through approximately 1,650 ft of assumed 12-in IPS PE4710 DR13.5 HDPE (ID approximately 10.86 in; C = 150), the estimated straight-pipe friction loss is approximately 4.8 ft.

TDH Component	Head
Static lift	51.0 ft
Straight-pipe friction	4.8 ft
Minor-loss allowance	5.0 ft
Preliminary TDH	**60.8 ft (≈ 26.3 psi)**

Pump Capacity

The Watertronics river-transfer station (Model VTE-7C-50S/50S-480-3-1500-70; Project PRVT13957) is specified for 1,500 gpm at 70 psi with two 50-hp main pumps. A 70-psi discharge pressure corresponds to approximately 162 ft of pressure head. This substantially exceeds the preliminary system TDH of approximately 61 ft. Accordingly, the proposed station appears to have adequate head capacity to convey 1,500 gpm from the Stillwater River to the proposed reservoir, subject to confirmation of final pipeline material/DR, elevations, fittings, pump curves, and controls.

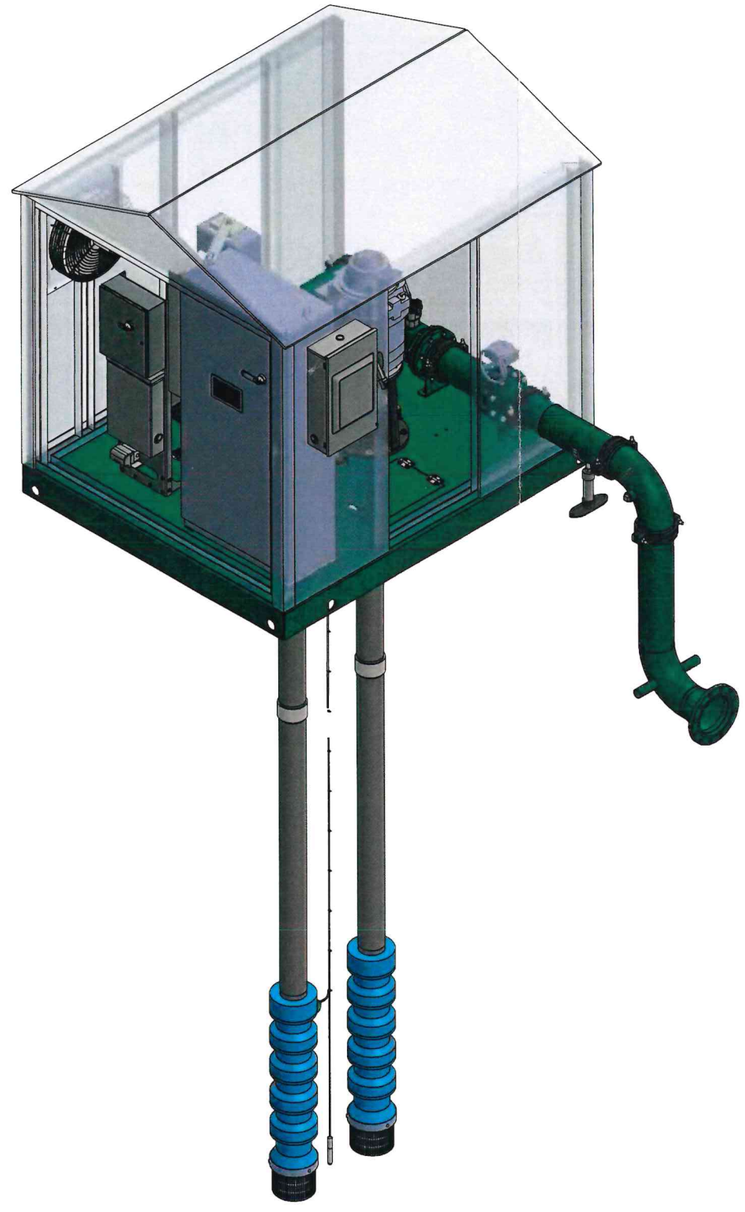
The Watertronics submittal identifies an 8-in electromagnetic flow meter and WaterVision control system, allowing the diversion rate to be monitored and controlled. The system shall be configured so that the diversion from the Stillwater River does not exceed 1,500 gpm (3.34 cfs). Variable-frequency-drive control shall be used to limit hertz as necessary to ensure the flow rate is not exceeded.

Attachment D

Watertronics River Transfer Pump Station Information

DESIGN SPECIFICATIONS				
MODEL #: VTE-7C-50S/50S-480-3-1500-70				**JOB #:** NA
STATION PERFORMANCE: 1500 GPM @ 70 PSI				
MAIN PUMP: 50 HP (QTY. 2)	**PRESSURE MAINTENANCE PUMP:** N/A			**JOCKEY PUMP:** N/A
POWER REQUIREMENTS: 480V, 3 PH, 60 HZ, 137 FLA				**DISCONNECT SIZE:** 200A
EXHAUST FAN REQUIREMENTS: 1700 CFM			**SURGE/LIGHTNING PROTECTION:** PREMIUM	
PRV SIZE: N/A	**EBVS:** NO	**PIPE COATING:** PAINTED		**COLOR:** GREEN
WATERVISION: YES	**MECH SEALS:** YES	**LIFTING WEIGHT:** 4,800 LBS		**STATION WEIGHT:** NA LBS

STATION COMPONENTS	
A	MAIN PUMP AND MOTOR
B	6" CHECK VALVE
C	5" PUMP DISCHARGE ISO VALVE
D	DRAIN
E	DISCHARGE PRESSURE TRANSDUCER W/ GAUGE
F	PAINTED STEEL BASE
G	8" ELECTROMAGNETIC FLOW METER
H	WET WELL ACCESS HATCH
J	8" STATION DISCHARGE ISOLATION VALVE
K	CONTROL CABINET W/ COOLING FAN
L	LEVEL FLOAT
M	CSM ENCLOSURE
N	5KW HEATER
P	5KVA LOAD CENTER
R	SBS-36 INLET BOX SCREEN
S	8" FLG X 10" FLG DROP PIPE



ISOMETRIC VIEW

CONCEPT DRAWING ONLY - NOT TO BE USED FOR CONSTRUCTION			
PLEASE VERIFY ALL INFORMATION WITH YOUR INITIAL AND DATE			
DESCRIPTION	SIZE	INITIAL	DATE
WET WELL SIZE	60 IN X 48 IN		
WET WELL DEPTH	240 IN		
MAINLINE CONNECTION	10 FL		
DROP PIPE COVER	36 IN		
INTAKE FLUME SIZE	24 IN		

Revision Table			
1.	XXX	XX/XX/XXXX	XXX
REV	DRAWN BY	DATE	DESCRIPTION

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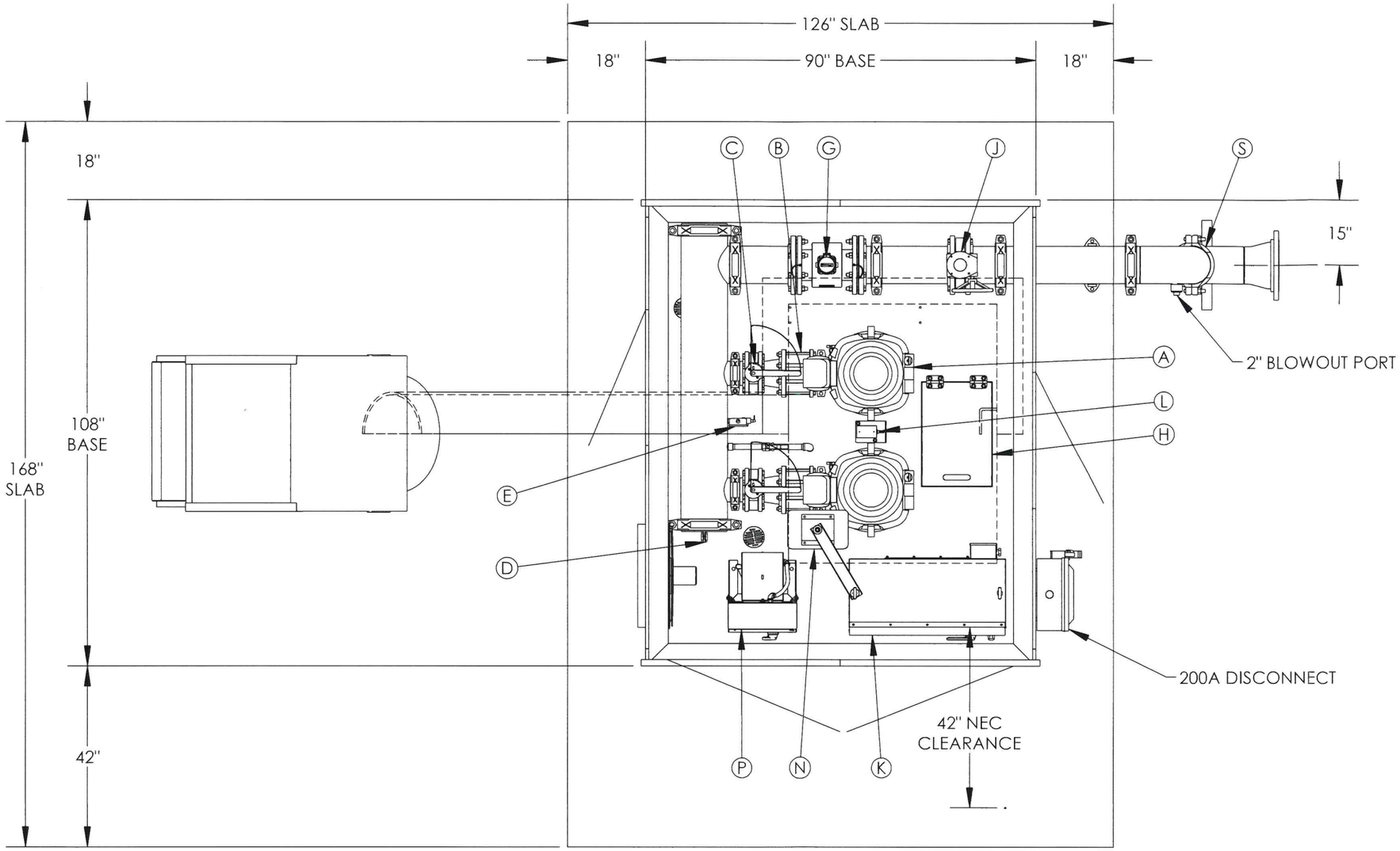
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MONTANA GOLF CLUB - RIVER TRANSFER
VTE-7C-50S/50S-480-3-1500-70

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PLAN VIEW

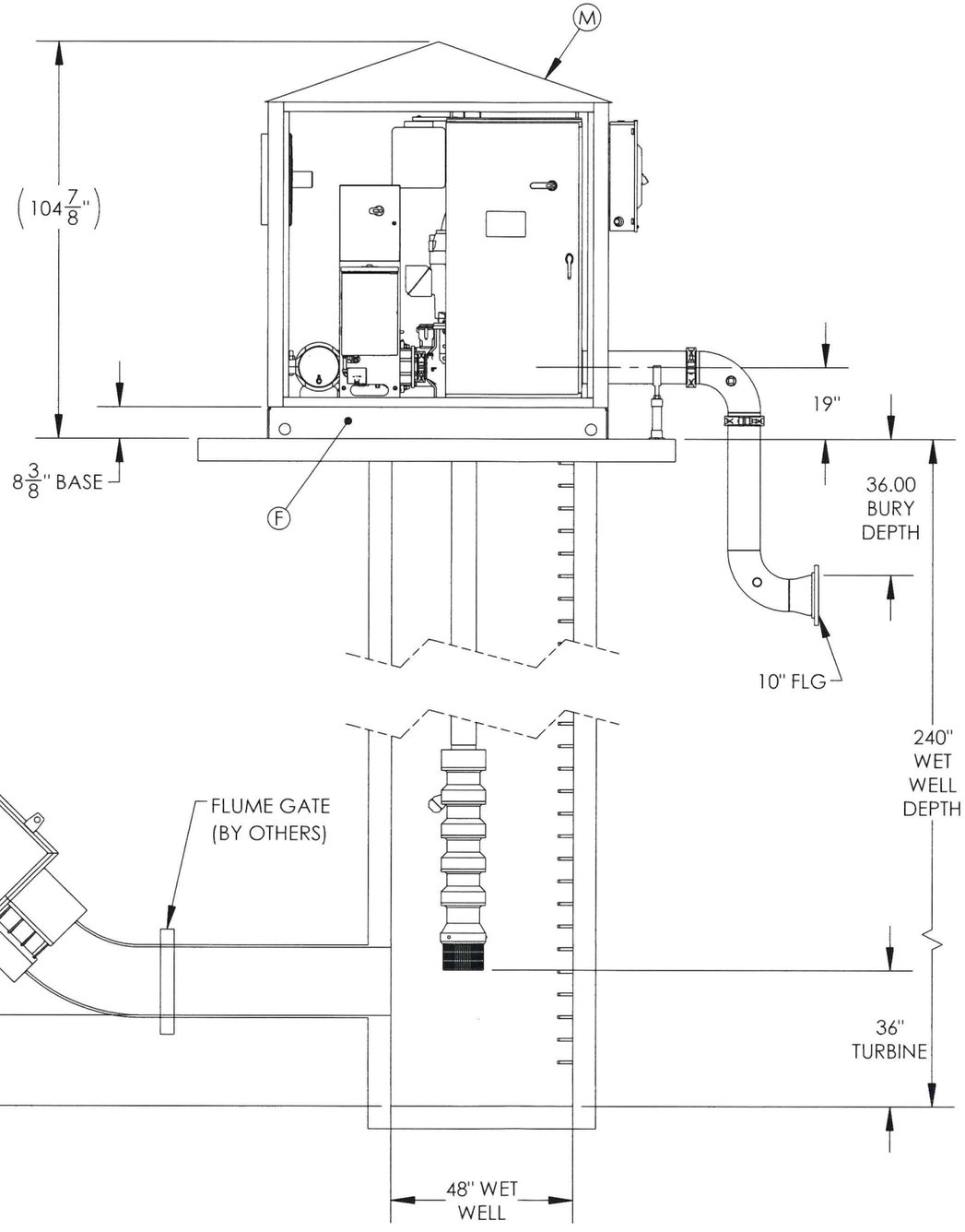
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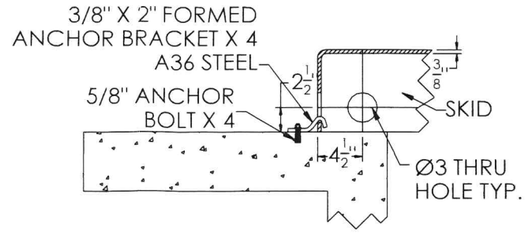
MONTANA GOLF CLUB - RIVER TRANSFER

VTE-7C-50S/50S-480-3-1500-70

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LIFTING HOLE / ANCHOR DETAIL
HOLES AT ALL CORNCERS
8 TOTAL ANCHORS AT 4 OPPOSITE CORNERS

ELEVATION VIEW

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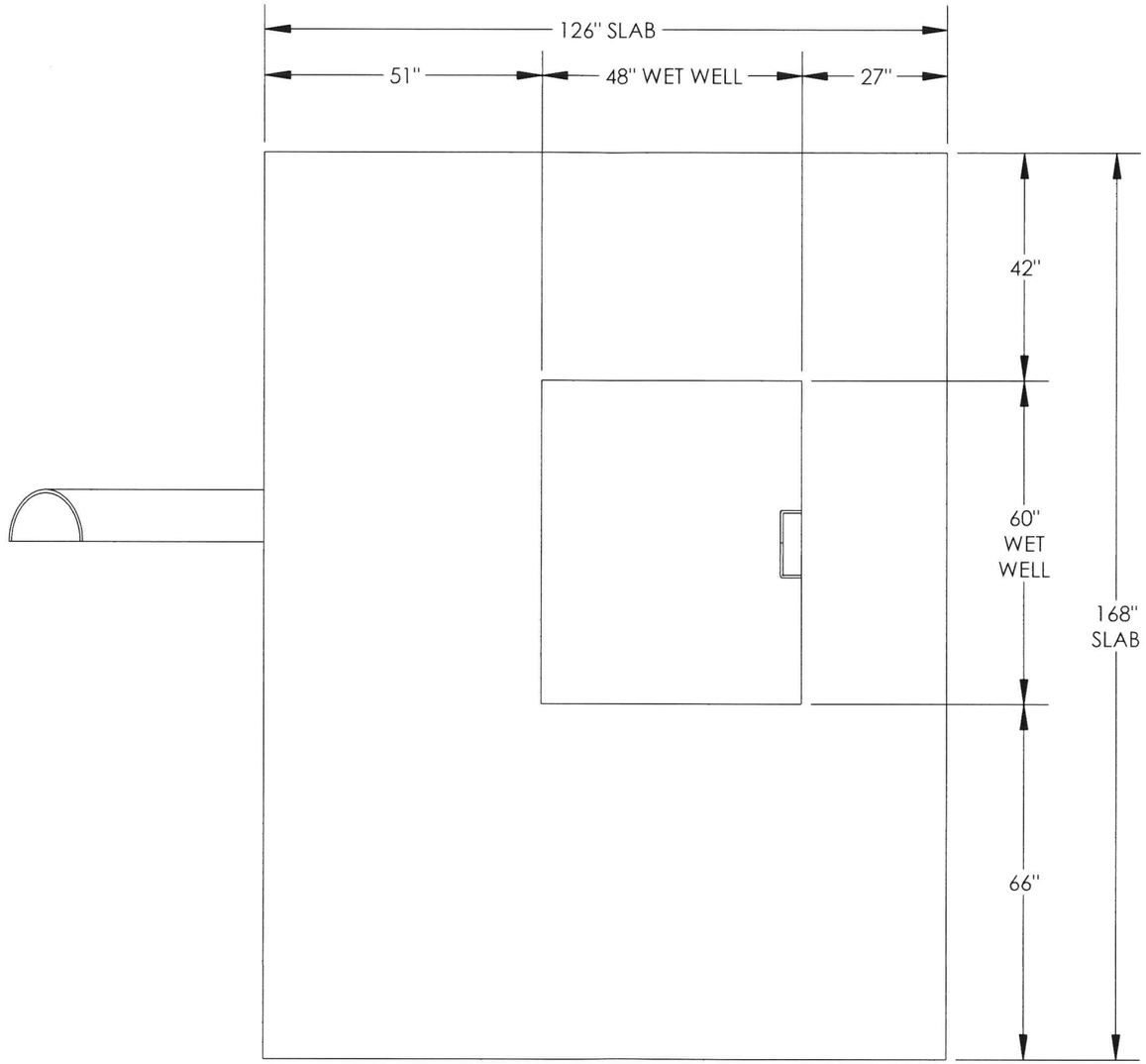
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SLAB VIEW

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MONTANA GOLF CLUB - RIVER TRANSFER

VTE-7C-50S/50S-480-3-1500-70

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Attachment E

Watertronics Golf Course Irrigation Pump Station Information

DESIGN SPECIFICATIONS

MODEL #: VTV-7C-75X3/5ST-480-3-2250-115			**JOB #:** N/A
STATION PERFORMANCE: 2250 GPM @ 115 PSI			
MAIN PUMP: 75 HP (QTY. 3)	**SUSTAIN PUMP:** 5 HP		**JOCKEY PUMP:** N/A
POWER REQUIREMENTS: 480V, 3 PH, 60 HZ, 293 FLA			**DISCONNECT SIZE:** 400A
EXHAUST FAN REQUIREMENTS: 3,825 CFM		**SURGE/LIGHTNING PROTECTION:** PREMIUM	
PRV SIZE: 4 IN	**EBVS:** YES	**PIPE COATING:** PAINTED	**COLOR:** GREEN
WATERVISION 2.0: YES	**MECHANICAL SEALS:** YES	**LIFTING WEIGHT:** LBS	**SLAB LOAD:** LBS

STATION COMPONENTS

A	MAIN PUMP AND MOTOR
B	SUSTAIN PUMP
C	6" CHECK VALVE
D	5" PUMP DISCHARGE ISO VALVE
E	DRAIN
F	PRESSURE RELIEF VALVE
G	PRESSURE TRANSDUCER W/ GAUGE
H	PAINTED STEEL BASE
J	8" ELECTROMAGNETIC FLOW METER
K	WET WELL ACCESS HATCH
L	VAF V1000 8" AUTOFLUSH FILTER (X2)
M	8" STATION DISCHARGE ISOLATION VALVE
N	CONTROL CABINET
P	NOREN HEAT EXCHANGER
R	LEVEL TRANSDUCER & FLOAT
S	8" FL X 16" FL DISCHARGE DROP PIPE
T	SBS36 STATINLESS STEEL BOX SCREEN WITH ADJUSTABLE FLUME CLAMP
U	FILTER INTAKE ISOLATION VALVE
V	FILTER DISCHARGE ISOLATION VALVE
W	FILTER BYPASS VALVE
X	FILTER AUTOFLUSH VALVE WITH EBV
Y	5KW HEATER
Z	5KVA LOAD CENTER

PLEASE USE THE SPACE BELOW FOR ANY ADDITIONAL COMMENTS

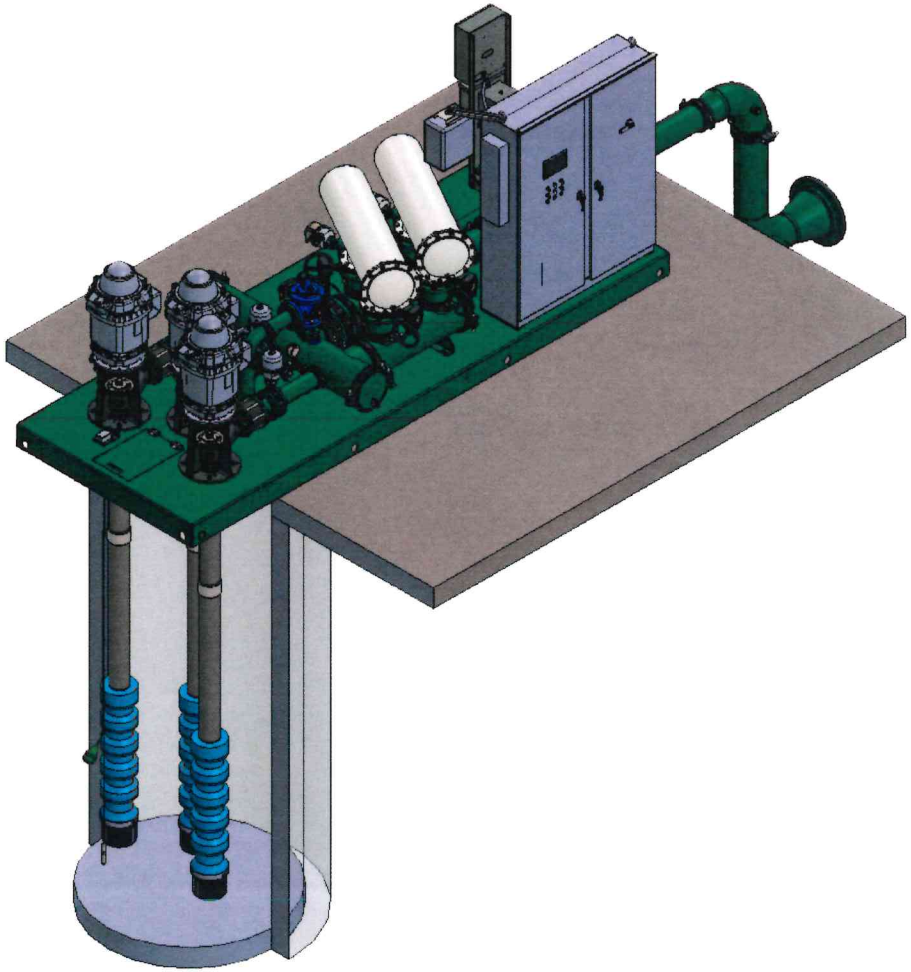
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DESCRIPTION	SIZE	INITIAL	DATE
WET WELL SIZE	72 IN		
WET WELL DEPTH	TBD		
MAINLINE CONNECTION	16 IN FL		
DROP PIPE COVER	36 IN		
INTAKE FLUME SIZE	30 IN		

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ISOMETRIC VIEW

Revision Table

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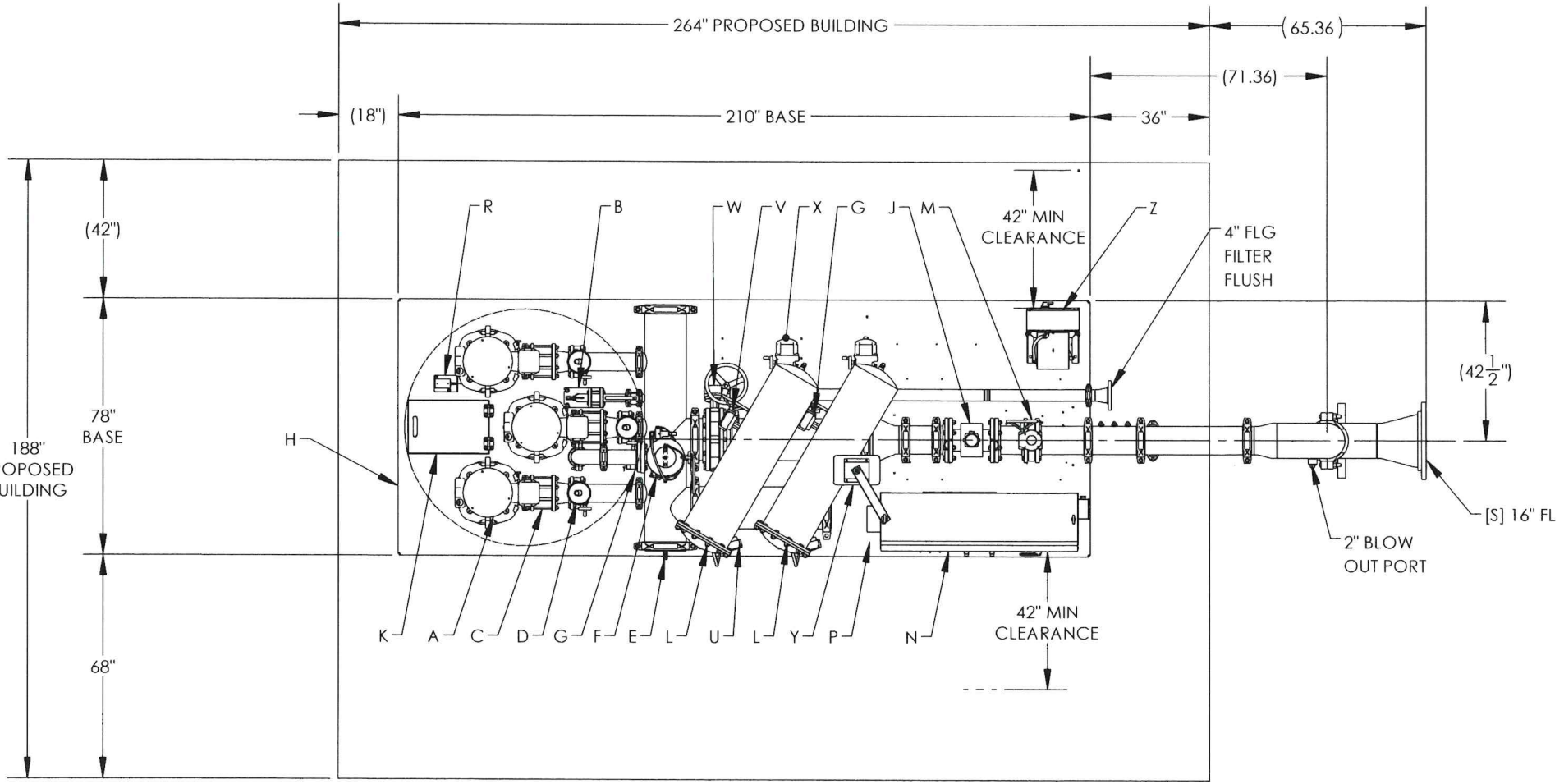
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MONTANA GOLF CLUB

VTV-7C-75X3/5ST-480-3-2250-115

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PLAN VIEW

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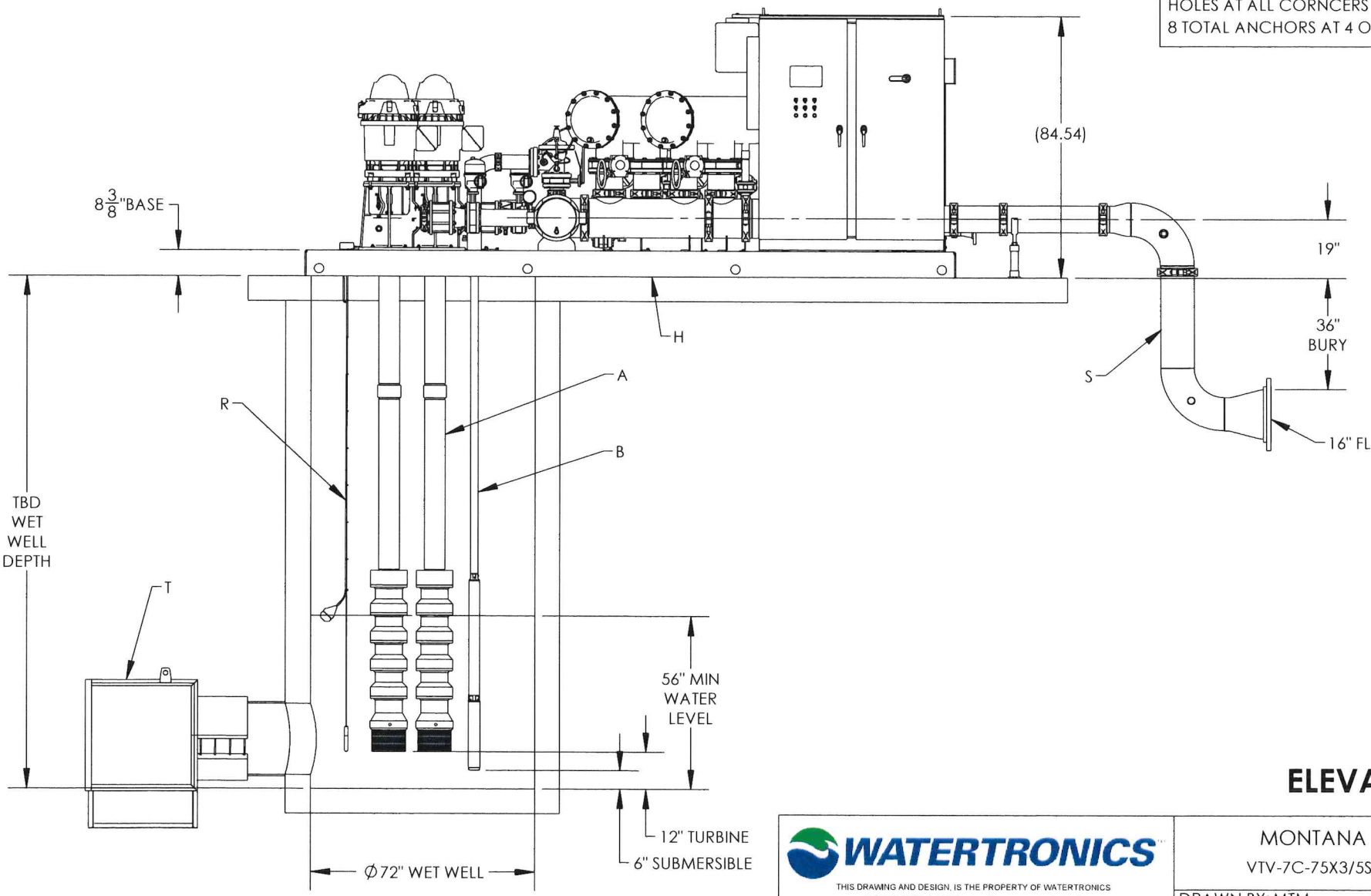
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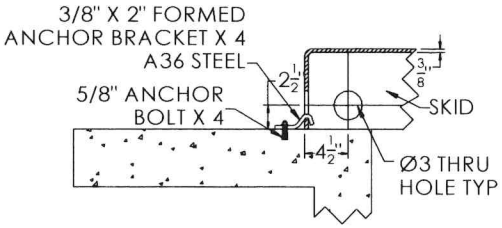
MONTANA GOLF CLUB

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LIFTING HOLE / ANCHOR DETAIL
HOLES AT ALL CORNCERS
8 TOTAL ANCHORS AT 4 OPPOSITE CORNERS

ELEVATION VIEW

WATERTRONICS

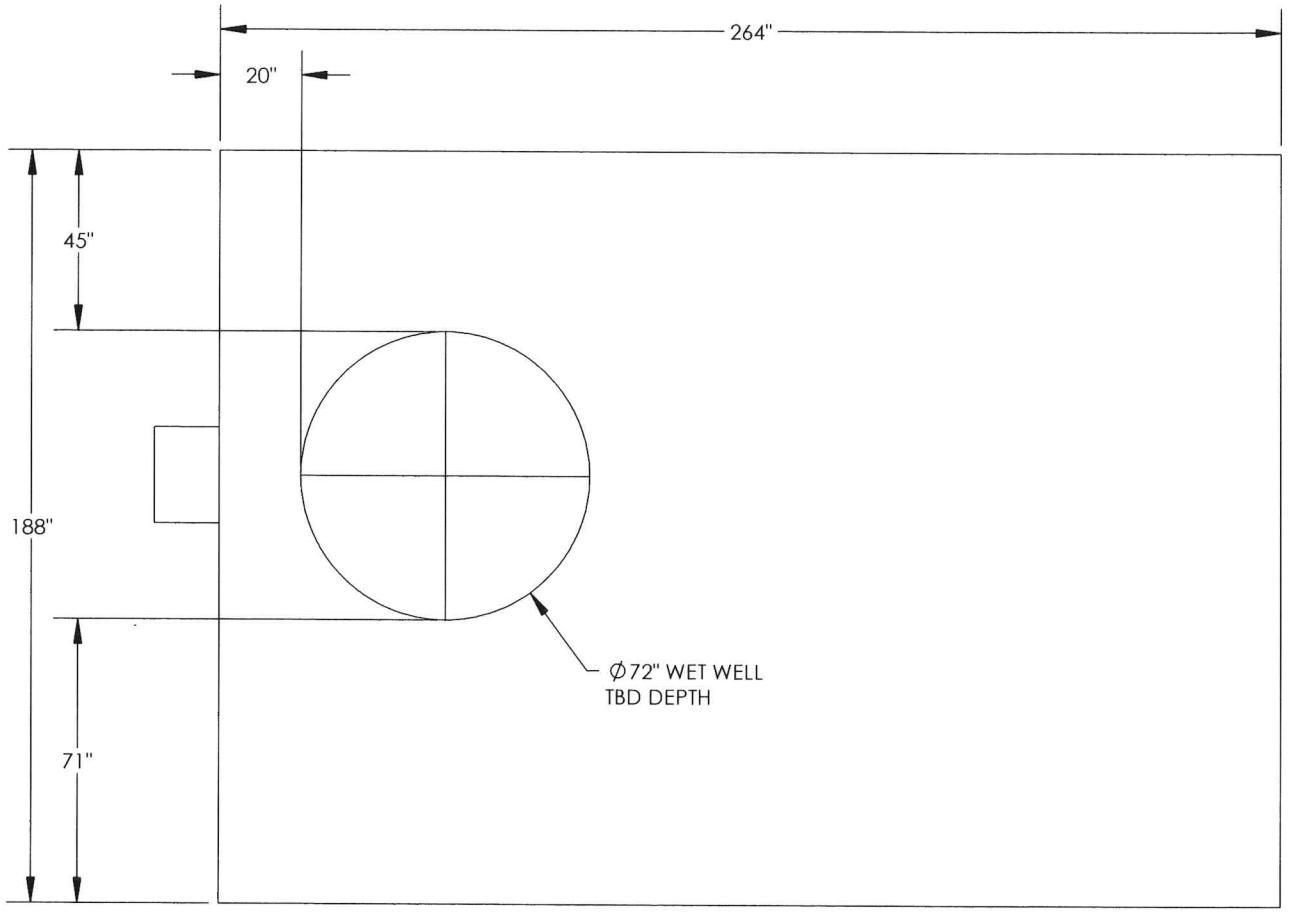
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MONTANA GOLF CLUB

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SLAB VIEW

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MONTANA GOLF CLUB

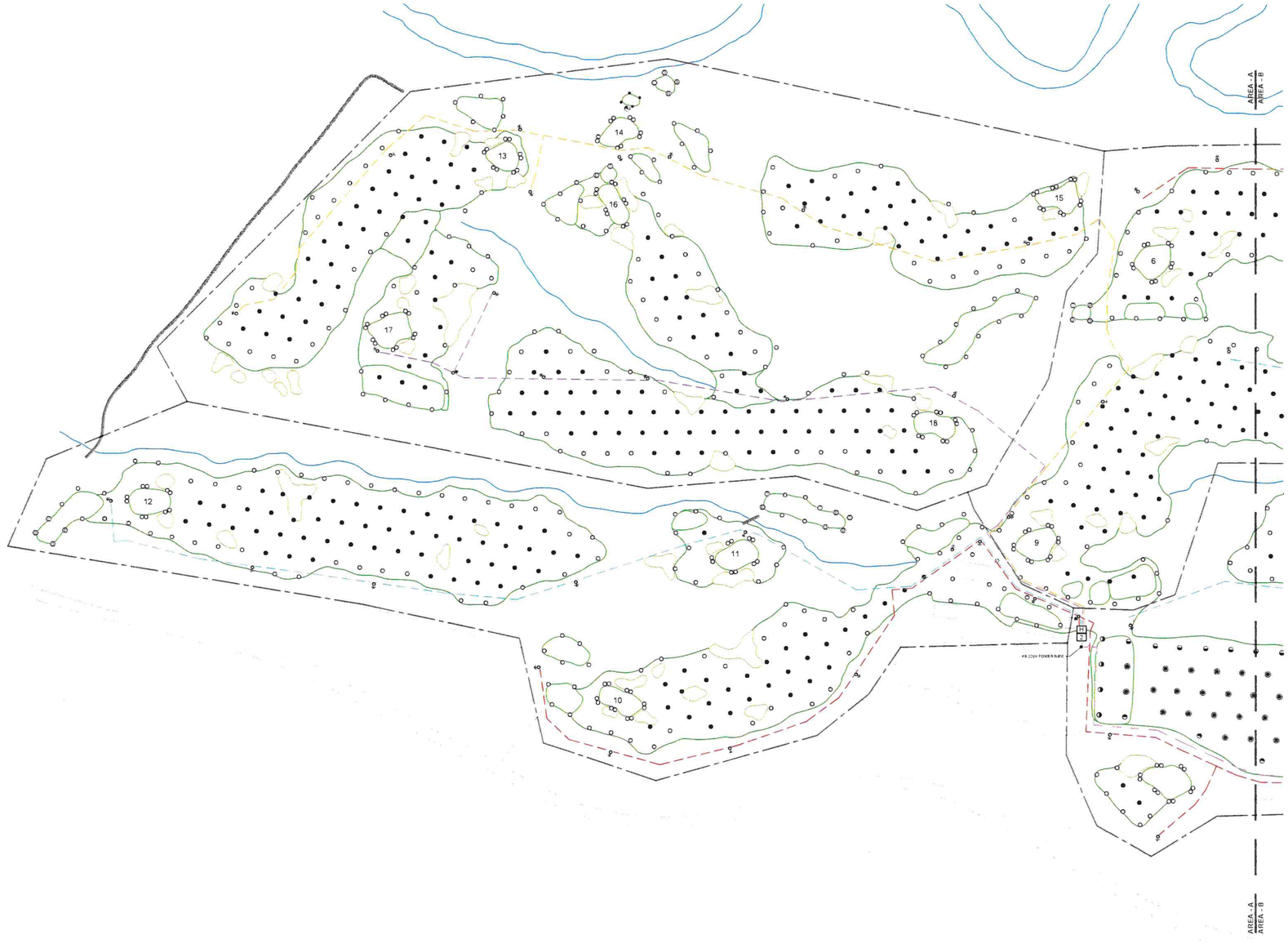
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Attachment F

Golf Course Irrigation System Plans



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
•	TORO TSPDKSS-RS TURF ROTOR, 5IN, POP-UP, STANDARD NOZZLES, STAINLESS STEEL RISER, ADJUSTABLE ARC PATTERNS 40-360, 25FT -50FT, RADIUS, WITH CHECK VALVE.	4
●	TORO INF34-338-6 1IN, ACME INLET TURF SPRINKLER, FULL CIRCLE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	548
◉	TORO INF34-348-6 1IN, ACME INLET TURF SPRINKLER, FULL CIRCLE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	54
◐	TORO INF35-318-6 1IN, ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED GDC MODULE WITH DCLS	21
○	TORO INF35-348-6 1IN, ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	736
◔	TORO INF35-358-6 1IN, ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	37

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	TORO P220-27A GLOBE ELECTRIC, 1IN, 1-1/2IN, 2IN, AND 3IN, PLASTIC IN-LINE REMOTE CONTROL VALVE, PRESSURE RATING OF 220 PSI, FILTER SCREEN ON 2IN, AND 3IN, MODELS—DC LATCHING SOLENOID WITH EZ REG PRESSURE REGULATOR 5 YEAR WARRANTY OPTIONAL: RECYCLED WATER KIT	1
	TORO 474-00 1IN, BRASS QUICK-COUPLING VALVE WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, T-PATTERN BODY. PROVIDE IN MANUFACTURER'S 6" ROUND VALVE BOX - GREEN.	63
	AQUAFUSE 360 PE BALL VALVE - 3 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	104
	AQUAFUSE RESILIENT WEDGE GATE VALVE - LINE SIZED RESILIENT WEDGE IPS GATE VALVE WITH HEAT FUSED EPOXY COATED DUCTILE IRON BODY. OPERATING NUT, STAINLESS STEEL NUTS AND BOLTS. PROVIDE WITH HDPE 4710 DR13.5 TO MATCH MAINLINE PIPE SIZE. PROVIDE ALL MAINLINE VALVES IN MANUFACTURERS JUMBO VALVE BOX WITH BLACK LID	45
A	BERMAD C30-P AIR/VACUUM RELIEF VALVE - 2" (TQ) TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION.	10
D	DRAIN VALVE: AQUAFUSE 360 PE BALL VALVE - 2" (TQ) TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION. 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	10
C#	TORO DEC-RSP-1000-DB TORO LYNX SMART HUB 2-WIRE SATELLITE CONTROLLER SEE SPECIFICATIONS	2
FC	TORO LX205-5-DB MANUFACTURERS CENTRAL SOFTWARE, PREMIUM COMPUTER, (5) YEARS MANUFACTURERS SUPPORT, PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM.	1
I	INTAKE SCREEN	1
	RAISE 270-RCK RE-ENTERABLE CONNECTOR WITH 36" GROUND PLATE. ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS	1
	TORO-DEL-SC-LINE WITH 36" GROUND PLATE. ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS	49
WS	WATCH-DOG 3550 WEATHER STATION WIRELESS WEATHER STATION TO MEASURE ET RATES, TEMPERATURE, RELATIVE HUMIDITY, RAINFALL, SOLAR RADIATION, AND WIND SPEED/DIRECTION. PROVIDE ALL NECESSARY COMPONENTS TO INTERFACE WITH IRRIGATION CENTRAL CONTROL SOFTWARE.	1
P	2,250 GPM VT-VFD PUMP STATION.	1
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 2"	87,754 LF
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 3"	5,663 LF
	IRRIGATION MAINLINE: HDPE PE4710 DR 13.5	25,753 LF
	IRRIGATION MAINLINE: SMOOTH BORE FLUME PIPE	103.9 LF

WIRE SCHEDULE

SYMBOL	DESCRIPTION	QTY
	230V POWER WIRE	3,241 LF
	#12 - 2-WIRE TRUNK LINE 1	6,909 LF
	#12 - 2-WIRE TRUNK LINE 2	7,576 LF
	#12 - 2-WIRE TRUNK LINE 3	5,561 LF
	#12 - 2-WIRE TRUNK LINE 4	7,089 LF

NOTE: ALL QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR ACTUAL COUNTS.

DESIGN NOTES:

1. ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
2. FLOW RATES THROUGH HDPE PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
3. PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES.
4. CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL SEEDED AND SODDED AREAS NOTED. IRRIGATION PLAN IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
5. IRRIGATION PLANS SHALL HAVE PRECEDENCE OVER IRRIGATION SPECIFICATIONS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE IRRIGATION CONSULTANT BEFORE INSTALLATION.
6. IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION ADJUSTED TO GRASSED AND SEEDED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND ANY FIELD ADJUSTMENTS.
7. IT IS THE INTENT OF THIS IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL GRASSED AND SEEDED AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
8. IRRIGATION PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF ALL EQUIPMENT AS STAKED BY IRRIGATION CONSULTANT. SAID EQUIPMENT, WHEN FIELD LOCATED, MAY VARY FROM PROPOSED PLAN DUE TO SITE CONDITIONS AND CONTRACTOR WILL MAKE ADJUSTMENTS ACCORDINGLY AT NO ADDITIONAL COST TO OWNER.

PLUMBING NOTES:

1. ALL PIPE FITTINGS SHALL BE OF FUSED HDPE E.F. OR F.W. RATED TYPE. ALL SPRINKLERS SHALL BE MOUNTED WITH MANUFACTURER'S SWING JOINTS ON OMY GLOBAL FUSED HDPE RISERS. NO BRAND MIXING ALLOWED AND CONTRACTOR/EQUIPMENT TO BE SITE CERTIFIED BY SUPPLIER AS SPECIFIED - NO EXCEPTIONS.
2. ALL PIPE SHALL BE CARRIED IN SEPARATE TRENCH.

ELECTRICAL NOTES:

1. ALL COMMUNICATION CONNECTIONS SHALL CONFORM TO LOCAL AND STATE CODES.
2. ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO ALL LOCAL, AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
3. 24" LOOP OF WIRE LOCATED BELOW EACH HEAD.
4. ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
5. ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.

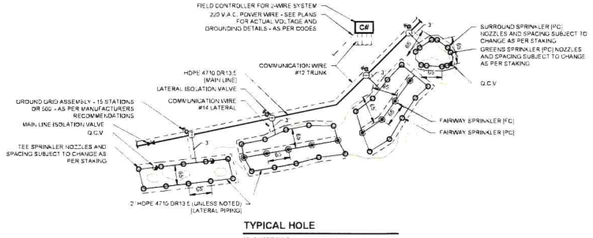
TWO WIRE NOTES:

1. ALL MANUFACTURER'S INTELLIGENT STATION MODULES SHALL HAVE INDIVIDUAL ADDRESS STATION OUTPUT (SEE NOTE #5 IN THIS SECTION).
2. BASE BID TO INSTALL EACH GROUND PLATE ASSEMBLY 4-40' TO E-0" FROM LINE (REFER TO DETAILS AND LEGEND). DO NOT INSTALL IN THE SAME TRENCH AS WIRE PATH.
3. INSTALL GROUNDING ASSEMBLY NO FURTHER THAN MANUFACTURERS RECOMMENDED DISTANCES FOR ANY INTELLIGENT STATION MODULES AND OR ACTUATORS. 500-TORO OR EVERY (1K) INTELLIGENT STATION MODULES AND/OR ACTUATORS - RAINBIRD.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH ALL MANUFACTURERS CURRENT SPECIFICATIONS AND LOCAL CODES.
5. SUPPORTING DISTRIBUTOR TO KEEP SEQUENCING/STATION NUMBERS CURRENT AND PROGRAM CENTRAL DURING IRRIGATION INSTALLATION AS PART OF BASE BID. SEQUENCING SHEETS SUPPLIED BY IRRIGATION CONSULTANT.

NORTH

ELECTRICAL SCHEMATIC PLAN AREA A

SCALE: 1" = 100'-0"



TYPICAL HOLE

SCALE: NOT TO SCALE

EDMUNDS DESIGN GROUP, LLC
LANDSCAPE ARCHITECTURE

MONTANA GOLF CLUB
WHITEFISH, MT

REVIEW AND PROGRESS PRINT - NOT FOR CONSTRUCTION

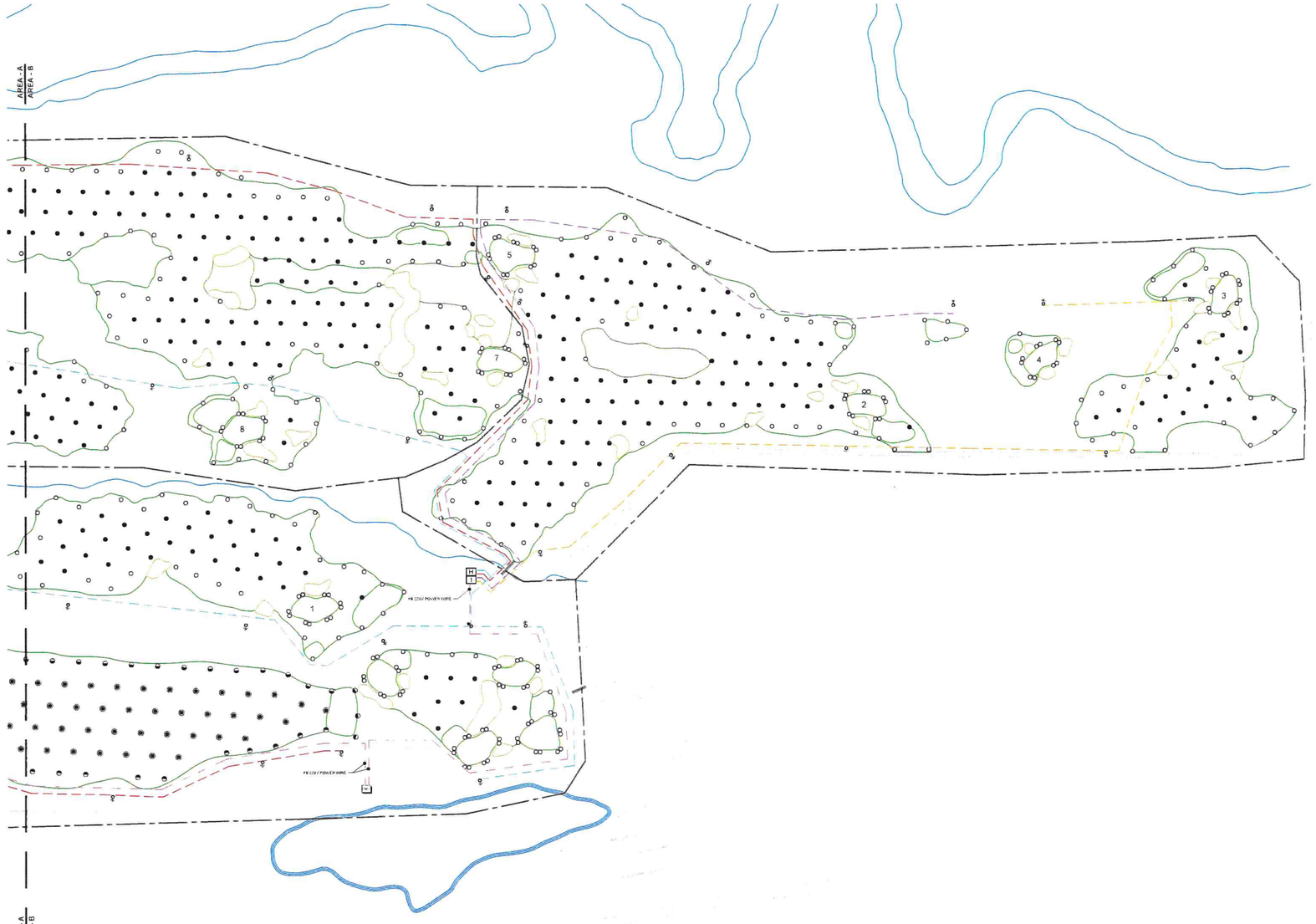
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DRAWN BY: KW
REVIEWED BY: EC

DRAWING TITLE:
ELECTRICAL SCHEMATIC PLAN - AREA A
SCALE: 1" = 100'-0"

DATE:
5/12/2026

SHEET #:
LI-3A



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
•	TORO TSPCKSS-RS TURF ROTOR SIN. POP-UP STANDARD NOZZLES STAINLESS STEEL RISER, ADJUSTABLE ARC PATTERNS 40-360 35FT -50FT. RADIUS WITH CHECK VALVE.	4
●	TORO INF34-336-6 1IN. ACME INLET TURF SPRINKLER FULL CIRCLE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	548
◉	TORO INF34-348-6 1IN. ACME INLET TURF SPRINKLER FULL CIRCLE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	54
◍	TORO INF35-318-6 1IN. ACME INLET TURF SPRINKLER PART-CIRCLE AND FULL-CIRCLE IN ONE PRESSURE REGULATION AT 60PSI INTEGRATED DCL MODULE WITH DCLS	21
○	TORO INF35-348-6 1IN. ACME INLET TURF SPRINKLER PART-CIRCLE AND FULL-CIRCLE IN ONE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	736
◔	TORO INF35-358-6 1IN. ACME INLET TURF SPRINKLER PART-CIRCLE AND FULL-CIRCLE IN ONE PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	37

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	TORO P220-27-9 GLOBE ELECTRIC 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC IN-LINE REMOTE-CONTROL VALVE. PRESSURE RATING OF 225 PSI. FILTER SCREEN ON 2IN. AND 3IN. MODELS—DC LATCHING SOLENOID WITH EZ REG PRESSURE REGULATOR 5 YEAR WARRANTY OPTIONAL RECYCLED WATER KIT	1
	TORO 474-05 1IN BRASS QUICK-COUPLING VALVE WITH CORROSION-RESISTANT STAINLESS STEEL SPRING. 1-PIECE BODY. PROVIDE IN MANUFACTURER'S 6" ROUND VALVE BOX - GREEN.	63
	AQUAFUSE 360 PE BALL VALVE - 2" 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	104
	AQUAFUSE RESILIENT WEDGE GATE VALVE - LINE SIZED RESILIENT WEDGE IPS GATE VALVE WITH HEAT FUSED EPOXY COATED DUCTILE IRON BODY, OPERATING NUT, STAINLESS STEEL NUTS AND BOLTS. PROVIDE WITH HDPE 4710 DR13.5 TO MATCH MAINLINE PIPE SIZE. PROVIDE ALL MAINLINE VALVES IN MANUFACTURERS JUMBO VALVE BOX WITH BLACK LID.	45
Ⓐ	BERMAD L30-P ARIVACUUM RELIEF VALVE - 2" TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION.	10
Ⓓ	DRAIN VALVE: AQUAFUSE 360 PE BALL VALVE - 2" TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION. 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	10
H I	TORO DEC-RSP-1000-DR TORO LYNX SMART HUB 2-WIRE SATELLITE CONTROLLER SEE SPECIFICATIONS.	2
LC	TORO LX05-5-DR MANUFACTURERS CENTRAL SOFTWARE, PREMIUM COMPUTER, (5) YEARS MANUFACTURERS SUPPORT, PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM	1
I	INTAKE SCREEN	1
	RAIDE 273-RCK RE-ENTERABLE CONNECTOR WITH 36' GROUND PLATE, ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS.	1
	TORO DEC-SG-LINE WITH 36' GROUND PLATE, ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS.	49
WS	WATCHDOG 3550 WEATHER STATION WIRELESS WEATHER STATION TO MEASURE ET RATES, TEMPERATURE, RELATIVE HUMIDITY, RAINFALL, SOLAR RADIATION, AND WIND SPEED/DIRECTION. PROVIDE ALL NECESSARY COMPONENTS TO INTERFACE WITH IRRIGATION CENTRAL CONTROL/SOFTWARE.	1
P	2,250 GPM VT-VFD PUMP STATION	1
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 2"	87,754 LF
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 3"	5,663 LF
	IRRIGATION MAINLINE: HDPE PE4710 DR 13.5	25,753 LF
	IRRIGATION MAINLINE: SMOOTH BORE FLUME PIPE	103.9 LF

WIRE SCHEDULE

SYMBOL	DESCRIPTION	QTY
	2/3W POWER WIRE	3,241 LF
	#12 - 2-WIRE TRUNK LINE 1	8,939 LF
	#12 - 2-WIRE TRUNK LINE 2	7,576 LF
	#12 - 2-WIRE TRUNK LINE 3	5,561 LF
	#12 - 2-WIRE TRUNK LINE 4	7,059 LF

NOTE: ALL QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR ACTUAL COUNTS.

DESIGN NOTES:

1. ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
2. FLOW RATES THROUGH HDPE PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
3. PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES.
4. CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL SEEDED AND SODDED AREAS NOTED. IRRIGATION PLANS IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
5. IRRIGATION PLANS SHALL HAVE PRECEDENCE OVER IRRIGATION SPECIFICATIONS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE IRRIGATION CONSULTANT BEFORE INSTALLATION.
6. IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION ADJUSTED TO GRASSED AND SEEDED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND ANY FIELD ADJUSTMENTS.
7. IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL GRASSED AND SEEDED AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
8. IRRIGATION PLANS ARE DIAGRAMMATIC IN NATURE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF ALL EQUIPMENT AS STAKED BY IRRIGATION CONSULTANT. SAID EQUIPMENT WHEN FIELD LOCATED MAY VARY FROM PROPOSED PLAN DUE TO SITE CONDITIONS AND CONTRACTOR WILL MAKE ADJUSTMENTS ACCORDINGLY AT NO ADDITIONAL COST TO OWNER.

PLUMBING NOTES:

1. ALL PIPE FITTINGS SHALL BE OF FUSED HDPE E.F. OR F.W. RATED TYPE. ALL SPRINKLERS SHALL BE MOUNTED WITH MANUFACTURER'S SWING JOINTS ON CMF GLOBAL FUSED HDPE SERVICE RISERS. NO BRAND MIXING ALLOWED AND CONTRACTOR EQUIPMENT TO BE SITE CERTIFIED BY SUPPLIER AS SPECIFIED - NO EXCEPTIONS.
2. ALL PIPE SHALL BE CARRIED IN SEPARATE TRENCH.

ELECTRICAL NOTES:

1. ALL COMMUNICATION CONNECTIONS SHALL CONFORM TO LOCAL AND STATE CODES.
2. ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO ALL LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
3. 24" LOOP OF WIRE LOCATED BELOW EACH HEAD.
4. ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
5. ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.

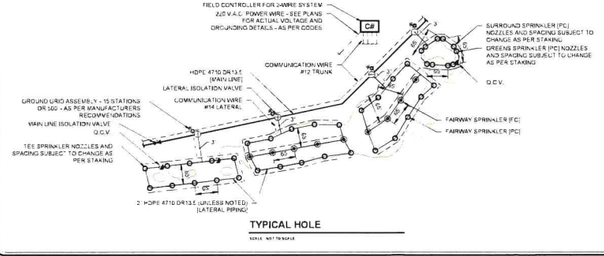
TWO WIRE NOTES:

1. ALL MANUFACTURER'S INTELLIGENT STATION MODULES SHALL HAVE INDIVIDUAL ADDRESS STATION OUTPUT (SEE NOTE #1 IN THIS SECTION).
2. BASE BID TO INSTALL EACH GROUND PLATE ASSEMBLY 4'-0" TO 5'-0" FROM LINE (REFER TO DETAILS AND LEGEND). DO NOT INSTALL IN THE SAME TRENCH AS WIRE PATH.
3. INSTALL GROUNDING ASSEMBLY NO FURTHER THAN MANUFACTURERS RECOMMENDED DISTANCES FOR ANY INTELLIGENT STATION MODULES AND OR ACTUATORS. 500'-TORO ON EVERY (10) INTELLIGENT STATION MODULES AND/OR ACTUATORS - RAINBIRD.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH ALL MANUFACTURERS CURRENT SPECIFICATIONS AND LOCAL CODES.
5. SUPPORTING DISTRIBUTOR TO KEEP SEQUENCING/STATION NUMBERS CURRENT AND PROGRAM CENTRAL DURING IRRIGATION INSTALLATION AS PART OF BASE BID. SEQUENCING SHEETS SUPPLIED BY IRRIGATION CONSULTANT.

NORTH

ELECTRICAL SCHEMATIC PLAN AREA B

SCALE: 1" = 100'-0"



TYPICAL HOLE

SCALE: NOT TO SCALE

EC Design
ERIC CHRISTENSEN DESIGN, LLC
EDUCATION - CONSULTATION - DESIGN
BOZEMAN, MT - (406) 599-2313 - EMAIL

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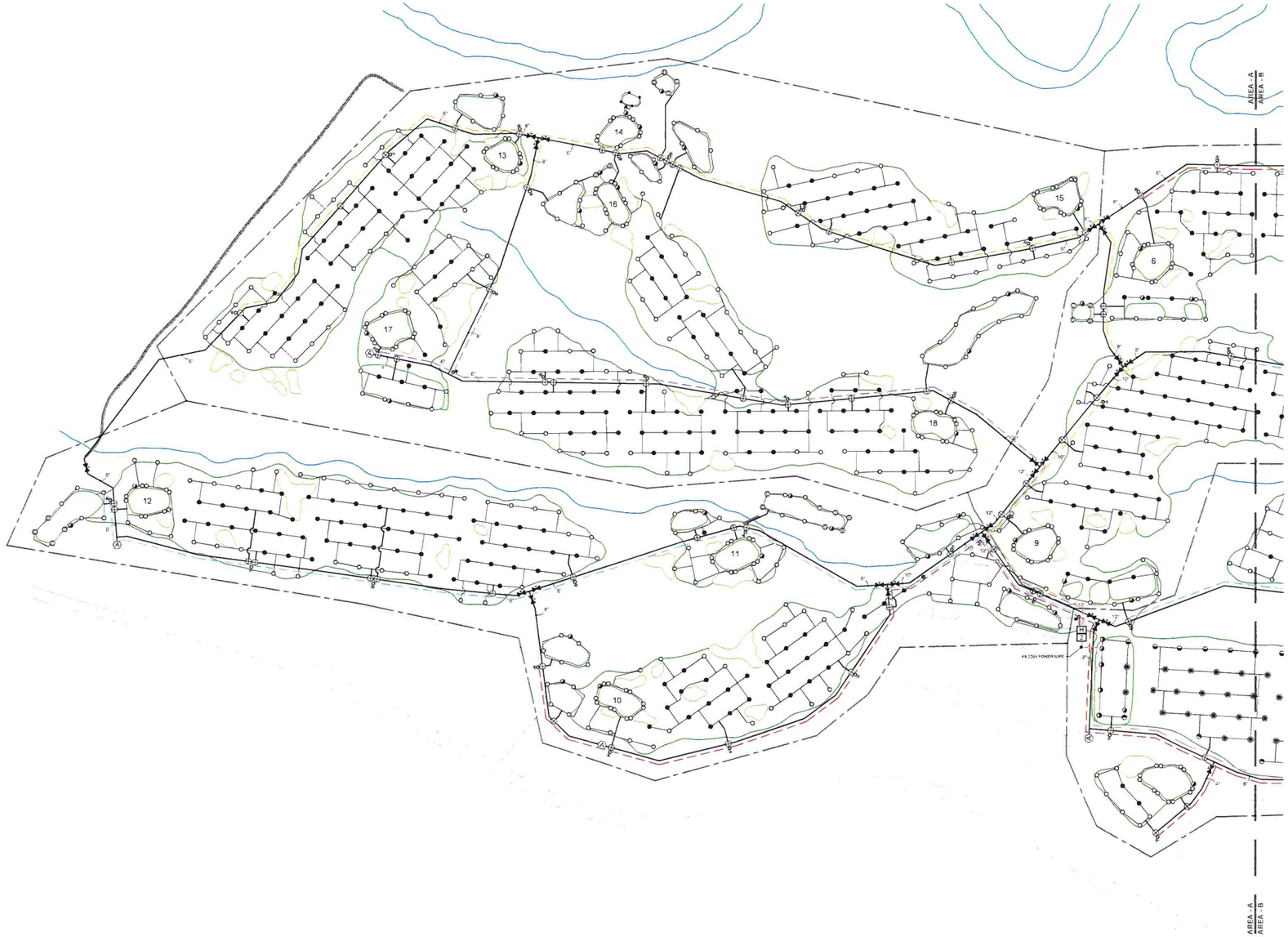
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DRAWN BY: KM
REVIEWED BY: EC

DRAWING TITLE: ELECTRICAL SCHEMATIC PLAN - AREA B
SCALE: 1" = 100'-0"

DATE: 5/12/2026

SHEET #: LI-3B



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
•	TORO TSPCKSS-R6 TURF ROTOR, SIN. POP-UP, STANDARD NOZZLES, STAINLESS STEEL RISER, ADJUSTABLE ARC PATTERNS 40-360, 25FT.-50FT. RADIUS, WITH CHECK VALVE.	4
●	TORO INF34-33HG 1IN. ACME INLET TURF SPRINKLER, FULL CIRCLE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	548
◉	TORO INF34-34HG 1IN. ACME INLET TURF SPRINKLER, FULL CIRCLE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	54
◍	TORO INF35-31HG 1IN. ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED QDC MODULE WITH DCLS	21
○	TORO INF35-34HG 1IN. ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	736
◔	TORO INF35-35HG 1IN. ACME INLET TURF SPRINKLER, PART-CIRCLE AND FULL-CIRCLE IN ONE, PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	37

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	TORO P220-27HG GLOBE ELECTRIC 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC IN-LINE REMOTE CONTROL VALVE, PRESSURE RATING OF 220 PSI, FILTER SCREEN ON 2IN. AND 3IN. MODELS—DC LATCHING SOLENOID WITH EZ REG PRESSURE REGULATOR. 5 YEAR WARRANTY OPTIONAL RECYCLED WATER KIT	1
	TORO 474-20 1IN. BRASS QUICK-COUPLING VALVE WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, 1-PIECE BODY. PROVIDE IN MANUFACTURER'S 6" ROUND VALVE BOX - GREEN.	63
	AQUAFUSE 360 PE BALL VALVE - 3 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	104
	AQUAFUSE RESILIENT WEDGE GATE VALVE - LINE SIZED RESILIENT WEDGE IPS GATE VALVE WITH HEAT FUSED EPOXY COATED DUCTILE IRON BODY, OPERATING NUT STAINLESS STEEL NUTS AND BOLTS. PROVIDE WITH HDPE 4710 DR 13.5 TO MATCH MAINLINE PIPE SIZE. PROVIDE ALL MAINLINE VALVES IN MANUFACTURERS JUMBO VALVE BOX WITH BLACK LID	45
Ⓐ	BERMAD C30-P AIR/VACUUM RELIEF VALVE - 2" (10) TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION.	10
Ⓓ	DRAIN VALVE, AQUAFUSE 360 PE BALL VALVE - 2" (10) TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION. 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	10
C#	TORO DEC-RSP-1002-DR TORO LYNX SMART HUB 2-WIRE SATELLITE CONTROLLER SEE SPECIFICATIONS	2
CC	TORO L305-5-DR MANUFACTURERS CENTRAL SOFTWARE, PREMIUM COMPUTER, (5) YEARS MANUFACTURER'S SUPPORT PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM.	1
I	INTAKE SCREEN	1
	PAIGE 270-RCX RE-ENTERABLE CONNECTOR WITH 36' GROUND PLATE ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS	1
	TORO DEC-SG-LINE WITH 36' GROUND PLATE ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE'S RECOMMENDATIONS	46
WS	WATCHDOG 2550 WEATHER STATION WIRELESS WEATHER STATION TO MEASURE ET RATES, TEMPERATURE, RELATIVE HUMIDITY, RAINFALL, SOLAR RADIATION, AND WIND SPEED/DIRECTION. PROVIDE ALL NECESSARY COMPONENTS TO INTERFACE WITH IRRIGATION CENTRAL CONTROL SOFTWARE	1
P	2,250 GPM VT.-VFD PUMP STATION	1
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 2"	87,754 LF
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 3"	5,663 LF
	IRRIGATION MAINLINE: HDPE PE4710 DR 13.5	25,753 LF
	IRRIGATION MAINLINE: SMOOTH BORE FLUME PIPE	103.9 LF

WIRE SCHEDULE

SYMBOL	DESCRIPTION	QTY
	220V POWER WIRE	3,241 LF
	#12 - 2-WIRE TRUNK LINE 1	6,809 LF
	#12 - 2-WIRE TRUNK LINE 2	7,576 LF
	#12 - 2-WIRE TRUNK LINE 3	5,561 LF
	#12 - 2-WIRE TRUNK LINE 4	7,059 LF

NOTE: ALL QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR ACTUAL QUANTS.

DESIGN NOTES:

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7. IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL GRASSED AND SEEDED AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
8. IRRIGATION PLANS ARE DIAGRAMMATIC IN NATURE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF ALL EQUIPMENT AS STAKED BY IRRIGATION CONSULTANT. SAID EQUIPMENT, WHEN FIELD LOCATED, MAY VARY FROM PROPOSED PLAN DUE TO SITE CONDITIONS AND CONTRACTOR WILL MAKE ADJUSTMENTS ACCORDINGLY AT NO ADDITIONAL COST TO OWNER

PLUMBING NOTES:

1. ALL PIPE FITTINGS SHALL BE OF FUSED HDPE E.F. OR F.W. RATED TYPE. ALL SPRINKLERS SHALL BE MOUNTED WITH MANUFACTURER'S SWING JOINTS ON CMT GLOBAL FUSED HDPE SERVICE RISERS. NO BRAND MIXING ALLOWED AND CONTRACTOR/EQUIPMENT TO BE SITE CERTIFIED BY SUPPLIER AS SPECIFIED - NO EXCEPTIONS.
2. ALL PIPE SHALL BE CARRIED IN SEPARATE TRENCH.

ELECTRICAL NOTES:

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2. ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO ALL LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
3. 24" LOOP OF WIRE LOCATED BELOW EACH HEAD.
4. ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
5. ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.

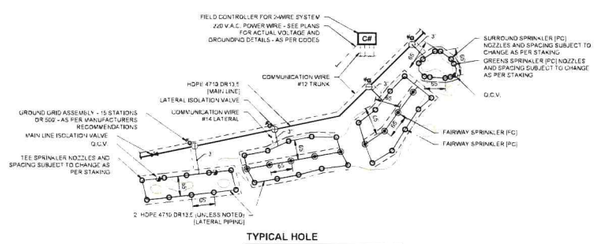
TWO WIRE NOTES:

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2. BASE BID TO INSTALL EACH GROUND PLATE ASSEMBLY 4'-0" TO 6'-0" FROM LINE (REFER TO DETAILS AND LEGEND). DO NOT INSTALL IN THE SAME TRENCH AS WIRE PATH.
3. INSTALL GROUNDING ASSEMBLY NO FURTHER THAN MANUFACTURERS RECOMMENDED DISTANCES FOR ANY INTELLIGENT STATION MODULES AND OR ACTUATORS. 500-FT/RD OR EVERY (15) INTELLIGENT STATION MODULES AND/OR ACTUATORS - RAINBIRD.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH ALL MANUFACTURERS CURRENT SPECIFICATIONS AND LOCAL CODES.
5. SUPPORTING DISTRIBUTOR TO KEEP SEQUENCING/STATION NUMBERS CURRENT AND PROGRAM CENTRAL DURING IRRIGATION INSTALLATION AS PART OF BASE BID. SEQUENCING SHEETS SUPPLIED BY IRRIGATION CONSULTANT.

NORTH

SITE IRRIGATION PLAN AREA A

SCALE: 1" = 100'-0"



TYPICAL HOLE

SCALE: NOT TO SCALE

EARL IRRIGATION & LANDSCAPE CO., LTD

MONTANA GOLF CLUB
WHITEFISH, MT

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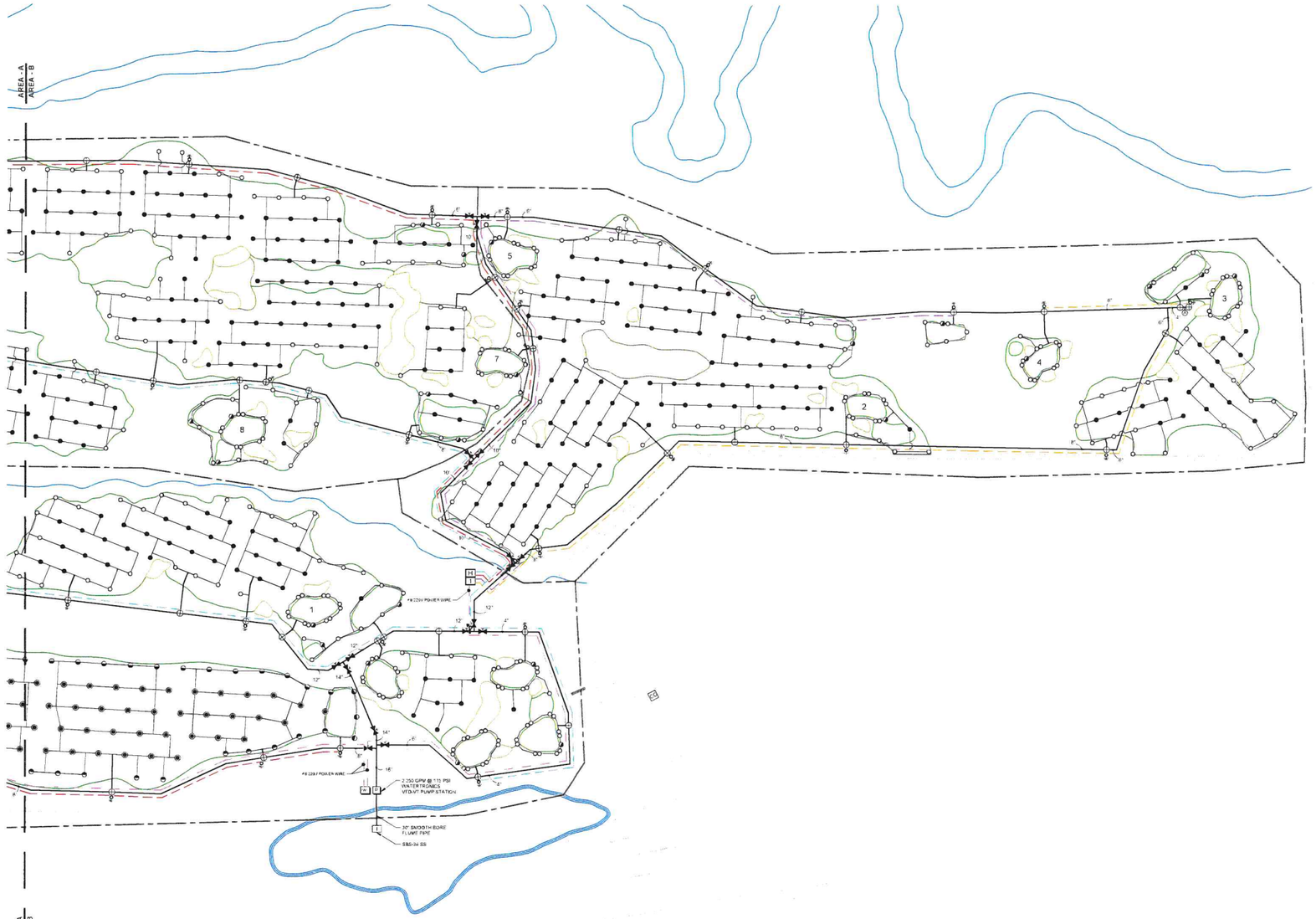
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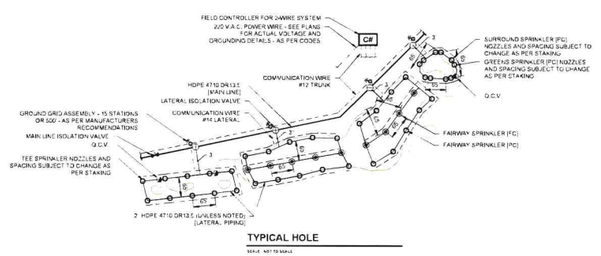
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SITE IRRIGATION PLAN AREA B

NORTH

SCALE: 1" = 100'-0"



TYPICAL HOLE

SCALE: NOT TO SCALE

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
•	TORO 13PCKSS-RS TURF ROTOR, SN, POP-UP, STANDARD NOZZLES STAINLESS STEEL RISER, ADJUSTABLE ARC PATTERNS 40-360 25FT -55FT RADIUS, WITH CHECK VALVE.	4
●	TORO INF-34-3364 1IN. ACME INLET TURF SPRINKLER. FULL CIRCLE PRESSURE REGULATION AT 60PSI. INTEGRATED LSM MODULE WITH DCLS	646
◉	TORO INF-34-3464 1IN. ACME INLET TURF SPRINKLER. FULL CIRCLE PRESSURE REGULATION AT 60PSI. INTEGRATED LSM MODULE WITH DCLS	54
◍	TORO INF-35-3164 1IN. ACME INLET TURF SPRINKLER. PART-CIRCLE AND FULL-CIRCLE IN ONE. PRESSURE REGULATION AT 60PSI INTEGRATED GDC MODULE WITH DCLS	21
○	TORO INF-35-3464 1IN. ACME INLET TURF SPRINKLER. PART-CIRCLE AND FULL-CIRCLE IN ONE. PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	736
◔	TORO INF-35-3564 1IN. ACME INLET TURF SPRINKLER. PART-CIRCLE AND FULL-CIRCLE IN ONE. PRESSURE REGULATION AT 60PSI INTEGRATED LSM MODULE WITH DCLS	37

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	TORO P220-27-6 GLOBE ELECTRIC 1IN, 1-1/2IN, 2IN, AND 3IN, PLASTIC IN-LINE REMOTE CONTROL VALVE. PRESSURE RATING OF 220 PSI FILTER SCREEN ON 2IN, AND 3IN, MODELS—DC LATCHING SOLENOID WITH EZ REG PRESSURE REGULATOR. 5 YEAR WARRANTY OPTIONAL RECYCLED WATER KIT	1
	TORO 474-05 1IN. BRASS QUICK-COUPLING VALVE. WITH CORROSION RESISTANT STAINLESS STEEL SPRING LARGE BODY. PROVIDE IN MANUFACTURERS 6" ROUND VALVE BOX - GREEN.	63
	AQUAFUSE 360 PE BALL VALVE - 3" 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	104
	AQUAFUSE RESILIENT WEDGE GATE VALVE - LINE SIZED RESILIENT WEDGE IPS GATE VALVE WITH HEAT FUSED EPOXY COATED DUCTILE IRON BODY. OPERATING NUT STAINLESS STEEL, NUTS AND BOLTS. PROVIDE WITH HDPE 4710 DR13.5 TO MATCH MAINLINE PIPE SIZE. PROVIDE ALL MAINLINE VALVES IN MANUFACTURERS JUMBO VALVE BOX WITH BLACK LID	45
A	BERMAD C30-P ARRIVALUUM RELIEF VALVE - 2" (1)2 TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION.	10
D	DRAIN VALVE: AQUAFUSE 360 PE BALL VALVE - 2" (1)2 TO BE FIELD LOCATED BY IRRIGATION CONSULTANT OR OWNER DURING CONSTRUCTION. 360 DEGREE PE VALVE WITH POSITION INDICATION AND HDPE 4710 DR 13.5 EXTENSIONS. PROVIDE WITH MANUFACTURERS 10" ROUND VALVE BOX - GREEN.	10
H I	TORO DEC-RSP-1000-DR TORO LYNX SMART HUB 2-WIRE SATELLITE CONTROLLER. SEE SPECIFICATIONS	2
LC	TORO LX05-5-08 MANUFACTURERS CENTRAL SOFTWARE. PREMIUM COMPUTER. (5) YEARS MANUFACTURERS SUPPORT. PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM.	1
I	INTAKE SCREEN	1
	PARGE 370-ROK REXNTERABLE CONNECTOR WITH 36" GROUND PLATE. ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE S RECOMMENDATIONS	1
	TORO DEC-SG-LINE WITH 36" GROUND PLATE. ROD AND GROUND ENHANCEMENT MATERIALS OR AS PER MANUFACTURE S RECOMMENDATIONS	49
WS	WATCHDOG 3550 WEATHER STATION. WIRELESS WEATHER STATION TO MEASURE ET RATES, TEMPERATURE, RELATIVE HUMIDITY, RAINFALL, SOLAR RADIATION, AND WIND SPEED/DIRECTION. PROVIDE ALL NECESSARY COMPONENTS TO INTERFACE WITH IRRIGATION CENTRAL CONTROL/SOFTWARE.	1
P	2,250 GPM VT-VFD PUMP STATION.	1
———	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 2"	87,754 LF
———	IRRIGATION LATERAL LINE: HDPE PE4710 DR 13.5 - 3"	5,863 LF
———	IRRIGATION MAINLINE: HDPE PE4710 DR 13.5	25,753 LF
— — —	IRRIGATION MAINLINE: SMOOTH BORE FLUME PIPE	103.9 LF

WIRE SCHEDULE

SYMBOL	DESCRIPTION	QTY
	220V POWER WIRE	3,241 LF
	#12 - 2-WIRE TRUNK LINE 1	6,909 LF
	#12 - 2-WIRE TRUNK LINE 2	7,576 LF
	#12 - 2-WIRE TRUNK LINE 3	5,561 LF
	#12 - 2-WIRE TRUNK LINE 4	7,069 LF

NOTE: ALL QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR ACTUAL COUNTS.

DESIGN NOTES:

1. ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
2. FLOW RATES THROUGH HDPE PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
3. PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES.
4. CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL SEEDED AND SODDED AREAS NOTED. IRRIGATION PLAN IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
5. IRRIGATION PLANS SHALL HAVE PRECEDENCE OVER IRRIGATION SPECIFICATIONS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE IRRIGATION CONSULTANT BEFORE INSTALLATION.
6. IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION ADJUSTED TO GRASSED AND SEEDED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND FIELD ADJUSTMENTS.
7. IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL GRASSED AND SEEDED AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
8. IRRIGATION PLANS ARE DIAGRAMMATIC IN NATURE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF ALL EQUIPMENT AS STAKED BY IRRIGATION CONSULTANT. SAID EQUIPMENT, WHEN FIELD LOCATED, MAY VARY FROM PROPOSED PLAN DUE TO SITE CONDITIONS AND CONTRACTOR WILL MAKE ADJUSTMENTS ACCORDINGLY AT NO ADDITIONAL COST TO OWNER.

PLUMBING NOTES:

1. ALL PIPE FITTINGS SHALL BE OF FUSED HDPE E.F. OR F.M. RATED TYPE. ALL SPRINKLERS SHALL BE MOUNTED WITH MANUFACTURER'S SWING JOINTS ON CMT GLOBAL FUSED HDPE SERVICE RISERS. NO BRAND MIXING ALLOWED AND CONTRACTOR EQUIPMENT TO BE SITE CERTIFIED BY SUPPLIER AS SPECIFIED - NO EXCEPTIONS.
2. ALL PIPE SHALL BE CARRIED IN SEPARATE TRENCH.

ELECTRICAL NOTES:

1. ALL COMMUNICATION CONNECTIONS SHALL CONFORM TO LOCAL AND STATE CODES.
2. ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO ALL LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
3. 24" LOOP OF WIRE LOCATED BELOW EACH HEAD.
4. ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
5. ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.

TWO WIRE NOTES:

1. ALL MANUFACTURER'S INTELLIGENT STATION MODULES SHALL HAVE INDIVIDUAL ADDRESS STATION OUTPUT (SEE NOTE #3 IN THIS SECTION).
2. BASE BID TO INSTALL EACH GROUND PLATE ASSEMBLY 4-6' TO 8-9' FROM LINE (REFER TO DETAILS AND LEGEND). DO NOT INSTALL IN THE SAME TRENCH AS WIRE PATH.
3. INSTALL GROUNDING ASSEMBLY NO FURTHER THAN MANUFACTURERS RECOMMENDED DISTANCES FOR ANY INTELLIGENT STATION MODULES AND OR ACTUATORS. 500-1000 OR EVERY 1-10 INTELLIGENT STATION MODULES AND/OR ACTUATORS - MAXIMUM.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH ALL MANUFACTURERS CURRENT SPECIFICATIONS AND LOCAL CODES.
5. SUPPORTING DISTRIBUTOR TO KEEP SEQUENCING/STATION NUMBERS CURRENT AND PROGRAM CENTRAL DURING IRRIGATION INSTALLATION AS PART OF BASE BID. SEQUENCING SHEETS SUPPLIED BY IRRIGATION CONSULTANT.

EBI CONSULTING
ENVIRONMENTAL & LANDSCAPE SYSTEMS
WWW.EBICONSULTING.COM

MONTANA GOLF CLUB
WHITEFISH, MT

REVIEW AND PROGRESS PRINT - NOT FOR CONSTRUCTION

REVISIONS
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2
3
4
5

DRAWN BY: KM
REVIEWED BY: EC

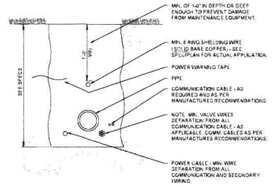
DRAWING TITLE:
SITE IRRIGATION PLAN AREA B
SCALE: 1" = 100'-0"

DATE
5/12/2026

SHEET #
LI-4B

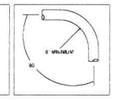
SHIELDING

THE BONDING CONDUCTORS ARE TO BE INSTALLED IN SUCH A WAY SO THAT THEY ALSO ACT AS SHIELDING CONDUCTORS. THIS BECOMES A NETWORK OF SOLID BARE COPPER WIRE OVER ALL THE MAIN BUNDLES OF OTHER WIRES AND CABLES AS SHOWN IN THE DETAIL.



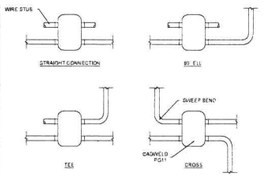
THE BARE WIRE IS TO BE INSTALLED AS CLOSE TO THE SURFACE AS POSSIBLE YET REMAIN SUFFICIENTLY BELOW THE GROUND LEVEL AS TO PREVENT DAMAGE FROM MAINTENANCE EQUIPMENT SUCH AS AERATORS, AND IT MUST BE PLACED ABOVE ALL OTHER VALVES' POWER/COMMUNICATION WIRES AND CABLES PER DETAIL ABOVE AND INSTALLED IN ALL TRENCHES AS SHOWN ON THE ELECTRICAL PLAN DRAWINGS. IT IS NOT NECESSARY TO INSTALL THE CONDUCTOR OVER A SHORT WIRE RUNS (LESS THAN 150 FEET) AWAY FROM THE MAIN WIRE BUNDLES. THE CONDUCTOR IS LAID IN AS STRAIGHT A LINE AS POSSIBLE, AND WHEN NECESSARY TO MAKE BENDS DO SO IN A SWEEPING MOTION USING THE FOLLOWING DETAIL AS A GUIDELINE.

NOTE: WHEN CONNECTING BARE COPPER WIRES TO THE GROUND LUG OF ELECTRONIC EQUIPMENT FEED IT THROUGH A ISOLATED 90 PLASTIC SWEEP ELL TO AUTOMATICALLY MEET THE REQUIREMENTS OF THE "SWEEP BEND" SHOWN HERE.



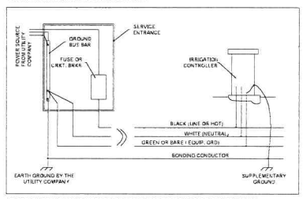
THE SHIELD NETWORK IS TO BE CONNECTED TO THE SERVICE ENTRANCE EARTH GROUND, TO ALL ELECTRONIC EQUIPMENT GROUND LUGS, AND ALL EQUIPMENT SUPPLEMENTARY GROUNDING ELECTRODES. ONE SUCH NETWORK IS NECESSARY FOR EACH POWER SOURCE. DO NOT INTERCONNECT THE EQUIPMENT GROUND WIRES FROM DIFFERENT POWER SOURCES.

WHEN JOINING BARE COPPER WIRES, DO SO USING AN EXECO PIGTAIL "ONE-SHOT" KIT AS SHOWN IN THIS DETAILS.
[PAIGE ELECTRIC PART NUMBER 1630924.]



BONDING

THE ABOVE GROUNDING CIRCUIT IS REFERRED TO AS "SUPPLEMENTARY GROUNDING" IS THE NEC. AND SAFETY REASONS. THE NEC REQUIRED THAT ALL SUPPLEMENTARY GROUNDS BE "BONDED" TO EACH OTHER AND TO THE SERVICE ENTRANCE GROUND (SOLID BARE COPPER) AS SHOWN IN THE DETAIL. THIS IS ALSO "RECOMMENDED PRACTICE" OF IEEE STANDARD 1100-1999. NOTE THAT THIS IS IN ADDITION TO THE EQUIPMENT GROUND, WHICH IS CONNECTED TO AS "THE GREEN WIRE". THE BLACK, WHITE AND GREEN WIRES MUST ALWAYS BE KEPT TOGETHER IN A TRENCH/CONDUIT/RACEWAYS, ETC. FROM THE CONTROLLER.

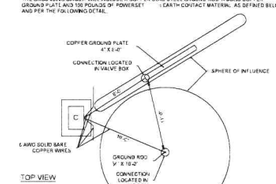


THE BONDING CONDUCTORS ARE TO BE 6 AWG SOLID BARE COPPER UNLESS THE SYSTEM POWER CONDUCTORS ARE LARGER THAT 1/0 AWG, IN WHICH CASE THEY ARE TO BE 4 AWG SOLID BARE COPPER. ALL SPLICES TO THE BONDING CONDUCTORS SHALL BE MADE USING A CRIMPED "ONE-SHOT" KIT AS SHOWN IN THE DETAILS.
[PAIGE ELECTRIC PART NUMBER 1630974.]

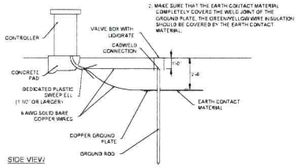
EARTH GROUNDING

IT IS THE RESPONSIBILITY OF THE INSTALLER TO CONNECT ALL ELECTRONIC IRRIGATION EQUIPMENT FOR WHICH HE IS RESPONSIBLE TO EARTH IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NEC). GROUNDING COMPONENTS WILL INCLUDE THE ITEMS DESCRIBED BY THE FOLLOWING PARAGRAPHS AT A MINIMUM:

USE GROUNDING ELECTRODES THAT ARE (a) LISTED OR MANUFACTURED TO MEET THE MINIMUM REQUIREMENTS OF ARTICLE 250.52 OF THE 2002 EDITION OF THE NEC, AT THE VERY MINIMUM THE GROUNDING CIRCUIT WILL INCLUDE A COPPER CLAD STEEL GROUND ROD, A SOLID COPPER GROUND PLATE, AND 100 POUNDS OF POWERSET : EARTH CONTACT MATERIAL, AS DEFINED BELOW, AND PER THE FOLLOWING DETAIL:



NOTES:
1. CONNECT ALL 6 AWG WIRES INSIDE THE CONTROLLER. CONNECT ONE WIRE TO THE CONTROLLER GROUND LUG AND USE A #4 SPLIT BOLT TO CONNECT ALL WIRES TOGETHER.
2. MAKE SURE THAT THE EARTH CONTACT MATERIAL COMPLETELY COVERS THE WELD JOINT OF THE GROUND PLATE. THE EXPOSED POLYURETHANE WIRE INSULATION SHOULD BE COVERED BY THE EARTH CONTACT MATERIAL.



GROUND RODS ARE TO HAVE A MINIMUM DIAMETER OF 5/8" AND A MINIMUM LENGTH OF 10 FEET. THESE ARE TO BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10 FEET FROM THE ELECTRONIC EQUIPMENT THE GROUND PLATE OR THE WIRES AND CABLES CONNECTED TO SAID EQUIPMENT, AS SHOWN IN THIS DETAIL ABOVE. THE ROD IS TO BE STAMPED WITH THE UL LISTED PAIGE ELECTRIC PART NUMBER 1620807 [A 6 AWG SOLID BARE COPPER WIRE (ABOUT 12 FEET LONG) SHALL BE CONNECTED TO THE ELECTRONIC EQUIPMENT GROUND LUG AS SHOWN IN THE DETAIL ABOVE.

THE COPPER GROUNDING PLATE ASSEMBLY PAIGE ELECTRIC PART NUMBER 1637261 MUST MEET THE MINIMUM REQUIREMENTS OF AN ISOLATED PLATE OF THE 1999 NEC. THEY ARE TO BE MADE OF A COPPER ALLOY INTENDED FOR GROUNDING APPLICATIONS AND WILL HAVE MINIMUM DIMENSIONS OF 4" X 96" X 0.062". A 20-FOOT CONTINUOUS LENGTH AND SPLICES ALLOWED UNLESS USING EXOTHERMIC WELDING PROCESS) OF 6 AWG SOLID BARE COPPER WIRE IS TO BE ATTACHED TO THE PLATE BY THE MANUFACTURER USING AN APPROVED WELDING PROCESS. THIS WIRE IS TO BE CONNECTED TO THE ELECTRONIC EQUIPMENT GROUND LUG AS SHOWN IN THE DETAIL. THE GROUND PLATE IS TO BE INSTALLED TO A MINIMUM DEPTH OF 30" AT A LOCATION 5 FEET FROM THE ELECTRONIC EQUIPMENT AND UNDERGROUND WIRES AND CABLES. TWO 55-POUND BAGS OF POWERSET (PAIGE ELECTRIC PART NUMBER 1637261) EARTH CONTACT MATERIAL MUST BE PROVIDED AS THEY SURROUND THE COPPER PLATE EVENLY ALONG ITS LENGTH WITHIN THE TRENCH. DO NOT USE SALTS OR OTHER CHEMICALS TO ENHANCE CONDUCTIVITY. SOME OF THESE CHEMICALS ARE NOT TO BE USED TO IMPROVE CONDUCTIVITY BECAUSE THESE MATERIALS ARE CORROSIVE AND WILL CAUSE THE COPPER ELECTRODES TO ERODE AND BECOME LESS EFFECTIVE WITH TIME.

INSTALL ALL GROUNDING SPLICE COMPONENTS IN STRAIGHT LINES. WHEN NECESSARY TO MAKE BENDS, DO NOT MAKE SHARP TURNS, TO PREVENT THE ELECTROCUSION HAZARD OF ENERGY FROM REENTERING THE UNDERGROUND WIRES AND CABLES. ALL ELECTRODES SHALL BE INSTALLED AWAY FROM SAID WIRES AND CABLES. THE SPACING BETWEEN ANY TWO ELECTRODES SHALL BE AS SHOWN IN THE DETAIL OF PAGE I - 5.0 THAT THEY DON'T COMPETE FOR THE SAME SOIL.

THE EARTH-TO-GROUND RESISTANCE OF THIS CIRCUIT TO BE MEASURED USING A MEGGER OTHER SIMILAR INSTRUMENTS AND THE READING IS TO BE 5 OHMS OR LESS. IF IT IS GREATER THAN

DESIGN SPECIFICATIONS					
MODEL #	VTV-FC-75X3 SST-480-3-2250-115			JOB #	N/A
STATION PERFORMANCE	2250 GPM @ 115 PSI				
MAIN PUMP	75 HP (QTY: 3)	SUSTAIN PUMP	5 HP	JOCKEY PUMP	N/A
POWER REQUIREMENTS	480V 3 PH 60 HZ 293 F.L.			DISCONNECT SIZE	400A
EXHAUST FAN REQUIREMENTS	3,825 CFM	SURGE LIGHTNING PROTECTION		PREMIUM:	
PRV SIZE: 4 IN	EBVS YES	PIPE COATING: PAINTED		COLOR GREEN	
WATERVISION 2.0	YES	MECHANICAL SEALS: YES	LIFTING WEIGHT:	LBS	SLAB LOAD: LBS

STATION COMPONENTS	
A	MAIN PUMP AND MOTOR
B	SUSTAIN PUMP
C	10" CHECK VALVE
D	10" PUMP DISCHARGE ISO VALVE
E	DRAIN
F	PRESSURE RELIEF VALVE
G	PRESSURE TRANSDUCER W/ GAUGE
H	PAINTED STEEL BASE
J	8" ELECTROMAGNETIC FLOW METER
K	WET WELL ACCESS HATCH
L	WAF-V1000 8" AUTOFLUSH FILTER (X2)
M	10" STATION DISCHARGE ISOLATION VALVE
N	CONTROL CABINET
P	NOREN HEAT EXCHANGER
R	LEVEL TRANSDUCER & FLOAT
S	8" FLX 10" FL DISCHARGE DROP PIPE
T	SBS36 STAINLESS STEEL BOX SCREEN WITH ADJUSTABLE FLUME CLAMP
U	FILTER INTAKE ISOLATION VALVE
V	FILTER DISCHARGE ISOLATION VALVE
W	FILTER BYPASS VALVE
X	FILTER AUTOFLUSH VALVE WITH EBV
Y	5KW HEATER
Z	5KVA LOAD CENTER

PLEASE USE THE SPACE BELOW FOR ANY ADDITIONAL COMMENTS

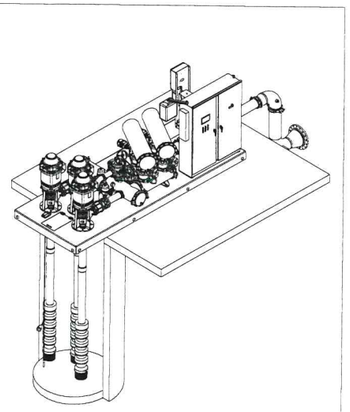
PLEASE VERIFY ALL INFORMATION WITH YOUR INITIAL AND DATE

DESCRIPTION	SIZE	INITIAL	DATE
WET WELL SIZE	72 IN		
WET WELL DEPTH	TBD		
MAINLINE CONNECTION	*6 IN FL		
DROP PIPE COVER	36 IN		
INTAKE FLUME SIZE	30 IN		

☐ APPROVED AS SUBMITTED
☐ APPROVED AS NOTED
☐ REVISE AND RESUBMIT

REVIEWED BY: _____
NAME: _____
DATE: _____

DIMENSIONS AND SIZES OF EXISTING STRUCTURES AND/OR COMPONENTS MUST BE VERIFIED BY CONTRACTOR OR BEFORE STATION CONSTRUCTION BEGINS (UNLESS SPECIFIED BY THE CUSTOMER). PUMP HOUSE CONCRETE SLAB DIMENSIONS ARE RECOMMENDED MINIMUMS FOR ALL INDOOR CLEARANCE AND ARE FOR ILLUSTRATION PURPOSES ONLY. PROJECT MANAGER SHALL BE CONSULTED ON FINAL DESIGN. THE PUMP STATION PROPOSED HEREIN IS DESIGNED TO BE PLACED IN A PUMP HOUSE FOR PROTECTION FROM THE ENVIRONMENT. IF A PUMP HOUSE IS NOT USED, WATERTRONICS MUST BE NOTIFIED AT TIME OF QUOTATION SO SPECIAL PROVISIONS CAN BE MADE.



ISOMETRIC VIEW

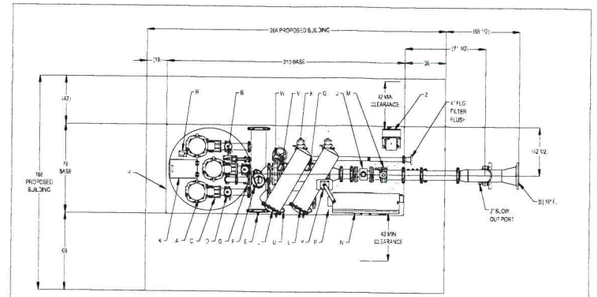
Revison Table					
1	XXX	XX/XX/XX	XXX		
REV	DRAWN BY	DATE	DESCRIPTION	CHECKED BY	DATE

WATERTRONICS

MONTANA GOLF CLUB
VTV-FC-75X3SST-480-3-2250-115

DRAWN BY	MTM	DATE	03/17/2026
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SIZE	SCALE	DRC NO.	REV.
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PAGE: 1 OF 4



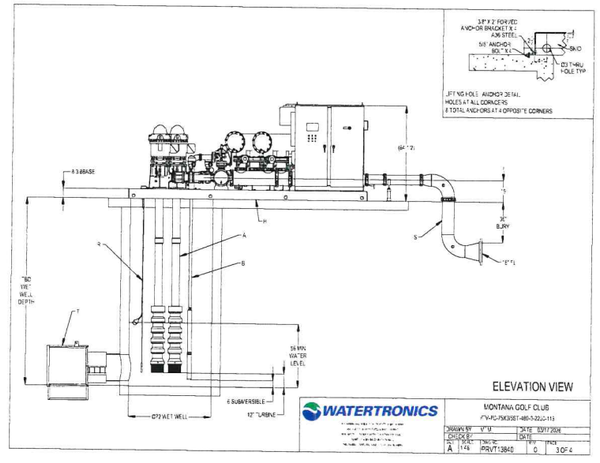
PLAN VIEW

WATERTRONICS

MONTANA GOLF CLUB
VTV-FC-75X3SST-480-3-2250-115

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CHECK BY		DATE	
SIZE	SCALE	DRC NO.	REV.
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PAGE: 2 OF 4



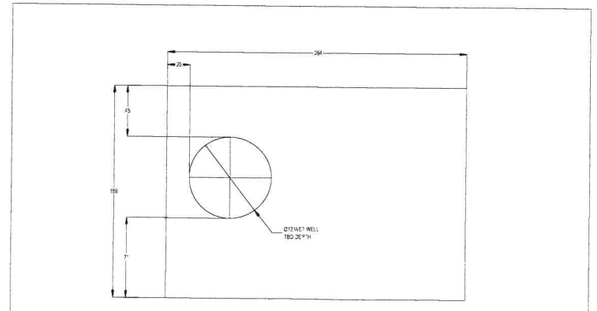
ELEVATION VIEW

WATERTRONICS

MONTANA GOLF CLUB
VTV-FC-75X3SST-480-3-2250-115

DRAWN BY	MTM	DATE	03/17/2026
CHECK BY		DATE	
SIZE	SCALE	DRC NO.	REV.
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PAGE: 3 OF 4



SLAB VIEW

WATERTRONICS

MONTANA GOLF CLUB
VTV-FC-75X3SST-480-3-2250-115

DRAWN BY	MTM	DATE	03/17/2026
CHECK BY		DATE	
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PAGE: 4 OF 4

EC Energy
ENGINEERING & CONSULTING, PLLC
[illegible]

MONTANA GOLF CLUB
WHITEFISH, MT

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DRAWN BY: KLS
REVIEWED BY: EC

DRAWING TITLE
IRRIGATION PUMP DETAILS
SCALE: NONE

DATE
5/12/2026

SHEET #
LI-6

Attachment G

Documentation of Signing Authority

MONTANA SECRETARY OF STATE

Business Entity Report

September 9, 2026 1:39 PM

Entity Name: STILLWATER MOUNTAIN RANCH, LLC

Entity Number: C1165125

Formation Date: July 8, 2020

Expiration Date: December 31, 2050

Status: Active-Good Standing

Entity Type: Domestic Limited Liability Company
Entity Sub-Type: Limited Liability Company

Business Mailing Address: BECKIE REYNOLDS 7854 FARM TO MARKET RD, WHITEFISH, MT 59937, UNITED STATES

Principal Office Address: BECKIE REYNOLDS 7854 FARM TO MARKET RD, WHITEFISH, MT 59937-9154, UNITED STATES

Term: Expires

Purpose:

LLC Managed By: Member Managed

Registered Agent Info: WILLIAM K VANCANAGAN , STE 201 201 W MAIN ST, MISSOULA, MT 59802, UNITED STATES

State of Jurisdiction: Montana

Associated Business Names:

- The Homestead at Whitefish - A1223497 - Active-Good Standing
- The Homestead at Whitefish Montana - A1223501 - Active-Good Standing

Trademarks:

- at The Homestead (SM) - T1228747 - Active Good Standing
- at The Homestead (SM) - T1228747 - Active Good Standing
- at The Homestead (SM) - T1228747 - Active Good Standing
- Homestead at Whitefish (TM) - T1228750 - Inactive Cancelled
- Homestead at Whitefish (TM) - T1228754 - Inactive Cancelled
- The Homestead Whitefish, Montana (TM) - T1228756 - Active Good Standing
- The Homestead Whitefish, Montana (TM) - T1228756 - Active Good Standing
- The Homestead Whitefish, Montana (TM) - T1228756 - Active Good Standing

Managers / Members

- Member, G. Stacy Smith, STILLWATER MOUNTAIN RANCH LLC 1273 MOUNTAIN HOME RD, WHITEFISH, MT 59937, UNITED STATES
- Member, Joseph I. Worsham, STILLWATER MOUNTAIN RANCH LLC 5506 WANETA DR., DALLAS, TX 75209, UNITED STATES

Technical Analyses Report/ Scientific Credibility Review

- Departmental Technical Analyses Report/ Scientific Credibility Review
- Any correspondence relating to the Technical Analyses Report

Technical Analyses Report / Scientific Credibility Review

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

July 6, 2026

STILLWATER MOUNTAIN RANCH LLC,
7854 FARM TO MARKET RD
WHITEFISH MT 59937-1307

Subject: Completed Technical Analyses Report for Change Preapplication No. 76LJ 30172463

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30172463 based on the information provided in your Preapplication Meeting Form accepted by the Department on May 20, 2026. The technical analyses can be found in the attached report.

This Technical Analyses Report **IS**: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit a Form 606 for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT**: An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria in §85-2-311, MCA.

You have 180 days to submit the Water Right Change Application Form 606 considering the information provided in the technical analyses and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by January 2, 2027, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any details described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

Please contact me at (406) 752-2702 or Jack.Vanderbilt@mt.gov if you have any questions about the application process.

Sincerely,

Jack Vanderbilt
Water Resource Specialist
Kalispell Regional Office

Encl.: Groundwater Permit Technical Analyses Report Parts A and B for Beneficial Water Use Permit Preapplication No. 76LJ 30172463

Cc via email: Brad Bennett, Water & Environmental Technologies

Surface Water Change Technical Analyses Report – Part A

Department of Natural Resources and Conservation (DNRC/ Department)
Water Resources Division

Jack Vanderbilt, Water Resource Specialist, Kalispell Regional Office

Applicant	Stillwater Mountain Ranch LLC
Application No.	76LJ 30172463
Proposed Point of Diversion	SESENW Section 14, Township 31N, Range 23W, Flathead County, Montana

Overview

This report is Part A of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right application. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in § 85-2-402 Montana Code Annotated (MCA).

This Surface Water Change Technical Analyses Report – Part A contains the following sections:

Surface Water Change Technical Analyses Report – Part A 1
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2.0 Historical Use Technical Analysis 5
2.1 Historical Field Consumed and Applied Volumes 5
2.2 Historical Conveyance Losses 7
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1.0 Application Details

The Applicant proposes to change the place of use (POU), the point of diversion (POD), and to add a place of storage for 76LJ 30175732. The historical elements for the Statement of Claim (76LJ 30175732) in this change application are in **Table 1** below. The Applicant proposes to correct the legal land description from the original claim (NWNWSE Section 14, Township 31N, Range 23W) to the correct legal land description (SESENW Section 14, Township 31N, Range 23W), however the existing permanent POD will be maintained on the Stillwater River. The POD will convey water to a 3.9 acre lined reservoir via the main irrigation line from the Stillwater River. The golf course will be irrigated by an underground sprinkler system.

Historically, the water right was used to irrigate 195.20 acres for agricultural purposes, the applicant proposes to shift irrigation from the agricultural irrigation purpose to irrigation of an 18-hole golf course. The Applicant proposes to retire 117.28 acres from the historical place of use. The total proposed acreage of irrigation is 92.09 acres with 77.92 acres of irrigation in the historically irrigated footprint and 14.17 acres of irrigation outside of the historical place of use. The proposed places of use include: S2SE Section 10, Township 31N, Range 23W, SWSW Section 11, Township 31N, Range 23W, NW Section 14, Township 31N, Range 23W, N2SW Section 104 Township 31N, Range 23W, NWSE Section 14, Township 31N, Range 23W, and Section E2NE 15, Township 31N, Range 23W. The project is located in Flathead County, and the source will be the Stillwater River.

Table 1: Water Right Proposed for Change

Water Right Number	Flow Rate (CFS)	Volume (AF)	Purpose	Period Of Use	Place Of Use	Point(s) Of Diversion	Priority Date
76LJ 30175732	5.57	Historical Use Statement	Irrigation	05/01 - 09/30	SESE Section 10 Township 31N Range 23W (39.3 Acres) E2SWSE Section 10 Township 31N Range 23W (6.90 Acres) W2SWSE Section 11 Township 31N Range 23W (4.00 Acres) NW Section 14 Township 31N Range 23W (84.10 Acres) SW Section 14 Township 31N Range 23W (16.03 Acres) E2NE Section 15 Township 31N Range 23W (43.70 Acres) SENWSE Section 14 Township 31N Range 23W (1.17 Acres)	NWNWSE Section 14, Township 31N, Range 23W	05/14/1973

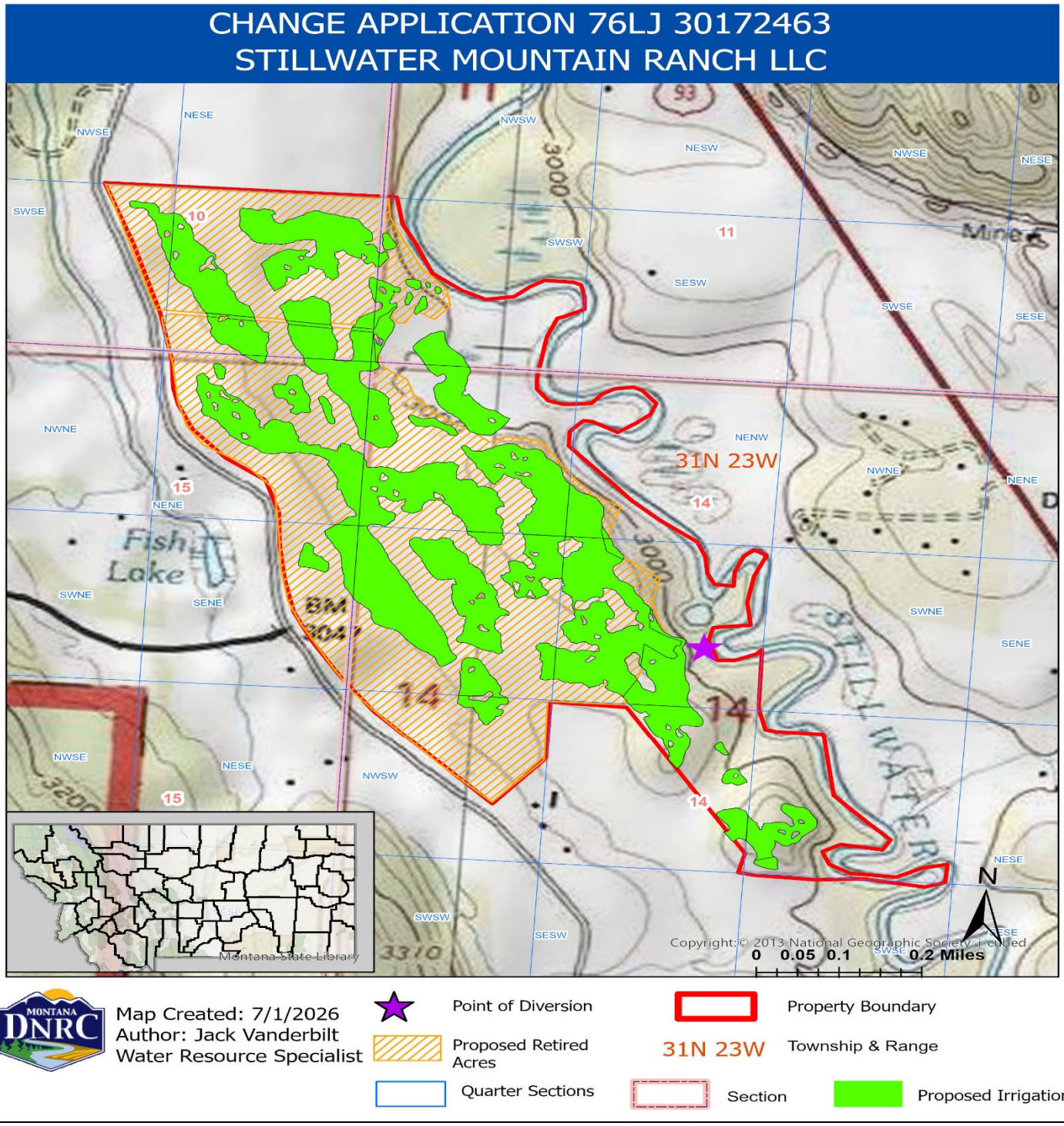


Figure 1: Map of the Applicant's proposed place of use.

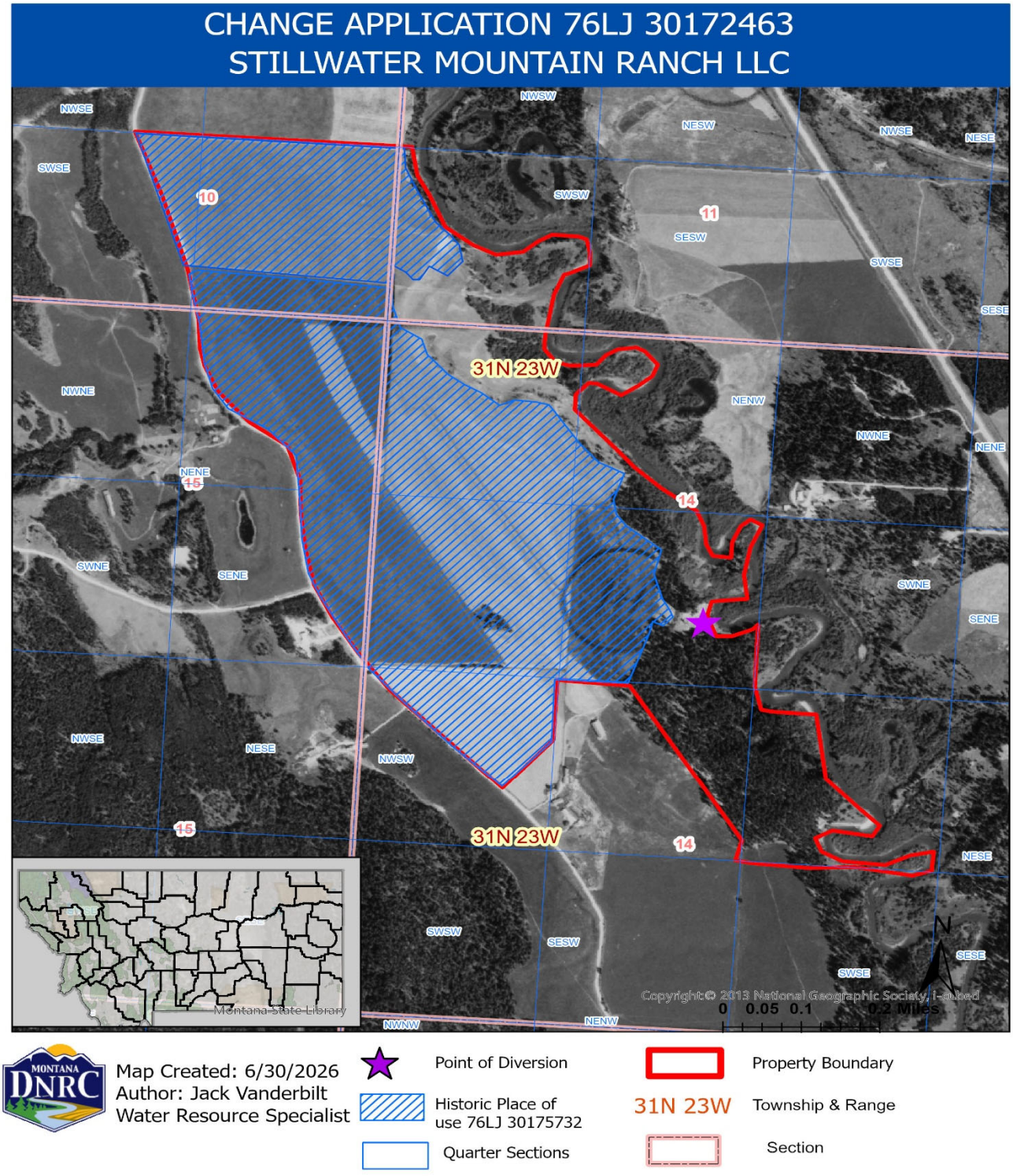


Figure 2: Historical use for Change Application 76LJ 30172463

2.0 Historical Use Technical Analysis

2.1 Historical Field Consumed and Applied Volumes

The consumed volume for irrigation is based on the net irrigation requirement (NIR) from USDA Natural Resources Conservation Service Irrigation Water Requirements (IWR) at a representative weather station. The NIR is multiplied by a county-wide management factor (from ARM 36.12.1902) to produce an adjusted NIR representative of actual crop yields in Montana. Crop consumption is determined by multiplying the adjusted NIR by the number of acres of irrigation. Crop consumption is then divided by the field efficiency identified from the irrigation method and ARM 36.12.115 to determine the field applied volume. Irrecoverable losses (IL) are 5% of the field applied volume for flood irrigation or 10% for sprinkler irrigation. The total consumed volume for irrigation is the crop consumption plus irrecoverable losses. The total non-consumed volume is the field applied volume minus the irrigation total consumed volume.

Claim 76LJ 30175732 (child right of 76LJ 9218-00) was originally claimed for surface water irrigation from the Stillwater River of 195.2 acres with handline and wheel line sprinklers associated with the Applicant's property in the SESE and E2SWSE Section 10 Township 31N Range 23W, W2SWSE Section 11 Township 31N Range 23W, NW Section 14 Township 31N Range 23W, SW Section 14 Township 31N Range 23W, E2NE Section 15 Township 31N Range 23W, and SENWSE Section 14 Township 31N Range 23W in Flathead County. Historical information and imagery were provided with the preapplication meeting form showing irrigation for a total of 195.20 acres that were historically irrigated. The Department used the following images to determine the maximum acres in the historical POU:

- Photo 279-143, dated July 22, 1980, shows historic irrigation at the proposed place of use of 195.20 acres.
- Applicant's supplied maps from 1974 and 1990 shows irrigation covering the proposed place of use 195.20 acres.

The historic photo dated 1980 shows a total of 195.20 acres irrigated and corroborates the applicant supplied map dated 1974 that irrigation was being done at the time claimed. Since the Department found a maximum of 195.20 acres, and that is the acreage agreed upon during the water right split proceeding, the Department will conduct its historical use analysis using 195.20 historically irrigated acres for 76LJ 30172463.

The total historical consumptive volume (HCV) for the water right associated with this change application is 256.33 acre-feet (AF). The Department calculated this historical consumptive volume using the Department's standard methodology, pursuant to ARM 36.12.1902. The water right being changed; the Statement of claim will be evaluated for its historical use as the right existed prior to July 1, 1973. The consumed volume for irrigation is based on the net irrigation requirement (NIR) from USDA Natural Resources Conservation Service Irrigation Water Requirements (IWR) at a representative weather station. The IWR is multiplied by a county-wide management factor (from ARM 36.12.1902) to produce an adjusted IWR representative of actual crop yields in Montana. Crop consumption is determined by multiplying the adjusted IWR by the number of acres of irrigation. Crop consumption is then divided by the field efficiency identified from the irrigation method

identified in ARM 36.12.115. Irrecoverable losses (IL) are 10% of the field applied volume for sprinkler irrigation. The total consumed volume for irrigation is the crop consumption plus irrecoverable losses. The total non-consumed volume is the field applied volume minus the total consumed volume. Values seen in tables were calculated using the Department standard Irrigation and Conveyance Loss Calculator and may differ slightly due to rounding.

The historical consumptive volume for the historical place of use was found using the following equations and information:

$$HCV = Crop\ Consumption + Historic\ Irrecoverable\ Losses$$

$$Crop\ Consumption = Whitefish * \frac{1ft}{12inches} * Flathead\ County\ Management\ Factor * Historic\ Acres$$

$$Historic\ Irrecoverable\ Losses = Field\ Applied * IL\%$$

Crop Consumptive Use

Whitefish Weather Station 76LJ 30175732: 15.74 in
Flathead County Management Factor (pre-July 1, 1973): 87.6%

Water Applied to Field

Sprinkler (Wheel line / Handline) Field Efficiency: 10%

Irrecoverable Losses

76LJ 30175732: 10% for sprinkler irrigation
Irrecoverable losses = 10% x 320.41 = 32.04

Total Historical Consumptive Use

76LJ 30175732 total = crop consumptive use + irrecoverable losses = 256.33

The historical consumed and field applied volumes have been calculated with the inputs shown in **Table 2** following the methods described above and in ARM 36.12.1902.

Table 2: Historical consumptive use of historical place of use

Irrigation Method	Acres	IWR (in)[1]	Mgmt. Factor[2]	Field Efficiency	Crop Consumption (AF)	Field Applied Volume (AF)	IL (AF)	Total Irrigation Consumed Volume (AF)	Non-Consumed Volume (AF)
Sprinkler (Handline & Wheel line)	195.2	15.74	0.88	0.7	224.29	320.41	32.04	256.33	64.08

[1]Whitefish IWR Weather Station
[2]Flathead County Historical Use Management Factor (pre-July 1, 1973)

Table 3: Historical consumptive use for the water rights proposed for change

Water Right No.	Historical Crop Consumption (AF)	Historical Applied Volume (AF)	Historical Consumed Volume (AF)
76LJ 30175732	224.29	320.41	256.33

2.2 Historical Conveyance Losses

There are no historical conveyance losses considered for the historical use of Statement of Claim 76LJ 30175732 because the historical means of conveyance is closed pipe.

2.3 Historical Diverted Volume

Per ARM 36.12.1902(10), the historically diverted volume is equal to the sum of the historical field application volume and historical conveyance loss volume. **Table 4** below summarizes the historical field applied and historical consumed loss volumes.

Table 4: Historical Diverted Volume of 76LJ 30175732.

Water Right No.	Historical Consumptive Volume (AF)	Historical Field Applied Volume (AF)	Historical Diverted Volume (AF)
76LJ 30175732	256.33	320.41	320.41

2.4 Summary of Historical Use

The Department will consider the following values when evaluating the historical use of 76LJ 30175732 for the adverse effect criterion:

Table 5: Summary of historical use of 76LJ 30175732

Water Right No.	Historical Purpose	Maximum Historical Acres	Historical Place of Use	Historical Point of Diversion	Maximum Historical Flow Rate (CFS)	Historically Consumed Volume (AF)	Historically Diverted Volume (AF)
76LJ 30175732	Irrigation	195.20	SESE Section 10 Township 31N Range 23W (39.3 Acres) E2SWSE Section 10 Township 31N Range 23W (6.90 Acres) W2SWSE Section 11 Township 31N Range 23W (4.00 Acres) NW Section 14 Township 31N Range 23W (84.10 Acres) SW Section 14 Township 31N Range 23W (16.03 Acres) E2NE Section 15 Township 31N Range 23W (43.70 Acres) SENWSE Section 14 Township 31N Range 23W (1.17 Acres)	NWNWSE Section 14, Township 31N, Range 23W	5.57	256.33	320.41

3.0 Analysis of Impacted Surface Water Sources

3.1 Summary of Proposed Use

The Applicant proposes to change the place of use (POU), correct the point of diversion (POD), and to add a place of storage. The Applicant proposes to correct the point of diversion legal land description from the original claim (NWNWSE Section 14, Township 31N, Range 23W) to the correct legal land description (SESENW Section 14, Township 31N, Range 23W), meaning that no new permanent POD will be established on the Stillwater River. The 195.20 acres of irrigation will be changed so that 117.28 acres of that historically irrigated acreage will be retired, and 14.17 acres of irrigation will be added outside of the historic place of use. The POD will convey water to a 3.9 acre lined reservoir via the main irrigation line from the Stillwater River. The golf course will be irrigated by an underground sprinkler system. The proposed use of Claim 76LJ 30175732 is shown in **Table 6.**

Table 6: Summary of the proposed use of 76LJ 30175732.

Water Right No.	Proposed Purpose	Proposed (Acres)	Proposed Place of Use	Proposed Point of Diversion	Proposed Flow Rate (CFS)	Proposed Consumptive Volume (AF)	Proposed Diverted Volume (AF)
76LJ 30175732	Irrigation	92.09	N2NWNE and NENENW Section 23 and SESESW and SWSWSE Section 14, Township 31N, Range 23W, Flathead County	SWSESE Section 14, Township 31N, Range 23W, Flathead County	5.57	129.35	153.55 (irrigation) - 35.76 (Pond)

Following the procedures outlined in the Historical Use section 2.1 above, the proposed consumed and diverted but non-consumed volumes have been calculated with the inputs shown in **Table 7** and **Table 8** following the methods described above and in ARM 36.12.1902.

Table 7: Proposed new irrigation outside of the historical place of use.

Water Right	Irrigation Method	Acres	IWR (in)[1]	Mgmt. Factor[2]	Field Efficiency	Crop Consumption (AF)	Applied Field Volume (AF)	IL (AF)	Total Irrigation Consumed Volume (AF)	Non-Consumed Volume (AF)
76LJ 30175732	Sprinkler (Handline & Wheel line)	14.17	15.74	0.97	0.7	17.95	25.65	2.56	20.52	5.13

[1]Whitefish IWR Weather Station
Flathead County Proposed Use Management Factor (1997-2006)

The Applicant proposes to retire 117.28 acres of the historically irrigated 195.20 acres that surrounds the proposed footprint of the golf course holes and continue irrigating 77.92 acres within the historically irrigated footprint by means of an underground sprinkler system with water from the Stillwater River. The applicant proposes to add 14.17 acres of irrigation outside of the historical place of use as well. The applicant also proposes adding a 3.9 acre lined reservoir that will use the same conveyance system from the Stillwater River to the lined reservoir. No other water rights will be used to irrigate the land. Proposed irrigation within the historical place of use is shown in **Table 8** and irrigation outside of the historical place of use is shown in **Table 7.** The full diverted and consumed volume by this change is shown in **Table 9**. Irrigation will continue from May 1 to September 30 for a total of 92.09 acres.

Table 8: Proposed irrigation within the historical place of use.

Irrigation Method	Acres	IWR (in)[1]	Mgmt. Factor[2]	Field Efficiency	Crop Consumption (AF)	Field Applied Volume (AF)	IL (AF)	Total Irrigation Consumed Volume (AF)	Non-Consumed Volume (AF)
Sprinkler (Handline & Wheel line)	77.92	15.74	0.88	0.7	89.53	127.90	12.79	102.32	25.58

[1]Whitefish IWR Weather Station

[2]Flathead County Historical Use Management Factor (pre-July 1, 1973)

Table 9: Proposed consumptive volume of changed water rights

Water Right	Crop Cons. Vol (AF)	Field Application (AF)	IL (AF)	Total Cons. Vol (AF)	Non-Cons. Vol (AF)
76LJ 30174762	107.49	153.55	15.36	122.84	30.71

3.2 Impacted Surface Water Sources

The Department has considered an area of potential adverse effect on the source of supply. The DNRC WSB found the water applied to the proposed place of use will return to the historical source, the Stillwater River, and will accrue beginning in the same location as historical flows. As such there are no water right users that will be affected by this change.

Review

This document has been reviewed by the Department on July 1, 2026.

References

Department Standard Practice for Determining Historical Use
DNRC, 2019. Technical Memorandum: Calculating Return Flow. April 18, 2019.

Surface Water Change Technical Analyses Report - Part B

The Montana Department of Natural Resources and Conservation (DNRC) Water Resources Division

Kim Bolhuis, Groundwater Hydrologist, Water Sciences Bureau (WSB)
Heath Geil-Haggerty, Groundwater Hydrologist, Water Sciences Bureau (WSB)

Applicant Name	Stillwater Mountain Ranch LLC
Application No.	76LJ 30172463
Point of Diversion Legal Land Description	SESENW of Section 14, Township 31 North, Range 23 West, Flathead County

Overview

This report is Part B of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right change application. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-402, Montana Code Annotated (MCA). For applications in closed basins, this report fulfills the requirements of MCA §85-2-361.

This Surface Water Change Technical Analyses Report – Part B contains the following sections:

Overview 1
1.0 Executive Summary 2
2.0 Methodology 2
3.0 Adverse Effect – Return Flow Analysis 3
Review 7
References 7

1.0 Executive Summary

Application Details

The Applicant proposes to change the place of use (POU) and add a place of storage (off-stream) to Statement of Claim No. 76LJ 9218-00. The legal land description of the POD is also proposed for correction on the water right to reflect the actual historical location, though the physical location of the POD is not changing. Historically, Statement of Claim No. 76LJ 9218-00 irrigated 291 acres diverted from the Stillwater River via a pump at a rate of 5.57 cfs annually. The proposed reservoir would be used for irrigation. The Claim was split twice, historically irrigated acreage owned by the Applicant is 195 acres. The Applicant proposes to retire 117.28 acres within the historical POU and add an additional 14.17 acres outside of the historical POU. The proposed place of storage (reservoir) would have a surface area of 3.9 acres and a maximum depth of 15 feet (ft), for a total storage volume of 29.25 acre-feet (AF).

WSB Technical Analysis Findings

Based on information submitted, the WSB quantified the historical non-consumed volume and location of historical return flows. These analyses are in support of the following criteria assessment: adverse effect. A summary of WSB findings described in subsequent sections are listed below.

TECHNICAL ANALYSES FINDINGS

ADVERSE EFFECT (RETURN FLOWS)	The historical non-consumed volume is 64.08 (AF) and the starting point of historical return flows as identified in **Figure 2** is to the northern edge of NWNWSWSW Section 11, Township 31 North, Range 23 West, Flathead County. The proposed non-consumed volume is 30.71 AF and the starting point of proposed return flows as identified in **Figure 2** is to the northern edge of SWNWSWSW Section 11, Township 31 North, Range 23 West, Flathead County.

2.0 Methodology

DNRC will analyze the change to determine if:

a. Return flows will enter back into the source where they have historically returned upstream of or at the location of the next downstream appropriator; or,
b. Water is left instream so historically diverted flows are available during the historical period of diversion either below the point of diversion or where return flows historically returned to the source.

If neither criterion is met or return flows accrete to more than one source, the return flow analysis may include a monthly breakdown of the rate and timing of return flows and evaluate impacts to the identified rights.

Return flows are evaluated by determining the volume of water that infiltrates past the root zone and identifying the likely receiving water. All water that is applied for irrigation and not consumed by a crop is assumed to infiltrate to groundwater as return flow and does not run off. The receiving stream is determined

by proximity and evidence of hydraulic connection to groundwater and generally does not depend on groundwater flow direction or land slope (Leake, 2011).

Historically consumed volumes for irrigation are calculated following the procedures described in DNRC consumptive use rules in ARM 36.12.1902. The amount of water consumed at the field is equal to crop consumption plus irrecoverable losses calculated as a percent of applied amounts. The amount of water applied to a field is determined from estimates of application efficiency and crop consumption. The amount of water not consumed is the difference between the amount of water consumed and the amount of water applied to a field.

3.0 Adverse Effect – Return Flow Analysis

3.1. Non-Consumed Volume

The consumed and non-consumed volumes for irrigation were calculated following the methods described in ARM 36.12.1902 and reported in **Part A** of this two-part report. The historical and proposed non-consumed volumes are 64.08 AF and 30.71 AF, respectively. Non-consumed volume is calculated as the remainder of the field application volume minus the crop consumption volume and the irrecoverable loss volume constituted by evapotranspiration.

3.2 Hydraulically Connected Surface Water(s)

Potentially affected surface waters in a return flow evaluation are identified by their hydraulic connection to the aquifer below the irrigated place of use. Hydraulic connection depends on the depth to groundwater beneath the beds of surface waters, connection between deep and overlying shallow aquifers, and vertical gradients. Connection can vary along a reach and with time of year.

Procedures for evaluating hydraulic connection and identifying one or more potentially affected surface waters can be found in DNRC (2019). The perennial surface waters identified as potentially connected groundwater are the Stillwater River and Logan Creek. Following protocols in DNRC (2019), **Table 1** identifies published information used to assess hydraulic connection of the identified surface waters to groundwater. **Figure 1** identifies the historical and proposed POUs, the local geologic units, and the potentially connected surface waters

The Stillwater River and Logan Creek (east of the western boundary of Section 3, Township 31 North, Range 23 West) are surrounded by mapped alluvial deposits and were evaluated for hydraulic connection to shallow groundwater using standards described in DNRC (2018). The wells, GWIC IDs 88129, 88130 and 88131, meet the DNRC (2018) criteria for potential hydraulic connection between surface water and shallow groundwater near the Stillwater River and Logan Creek. The glacial till may act as a confining layer between the overlying alluvium and underlying Bet Supergroup (Smith, 2004). On a regional scale, potentiometric surface mapping shows that groundwater in the bedrock along valley margins is hydraulically connected to the alluvial aquifer (LaFave et. al., 2004). Locally, a synoptic run conducted by Coffin et al. (1972) showed a gaining reach of the Stillwater River located approximately 1 mile North of the proposed POU, indicating that groundwater is discharging into the Stillwater River above the confining layers seen in well logs. Additionally, Groundwater Permit applications including 76LJ 30116427, 76LJ 30116429, 76LJ 30110482, and 76LJ 30108615 also stated

the Stillwater River is hydraulically connected to the shallow alluvial system. From this evidence, Logan Creek and the Stillwater River are considered to be connected to the alluvial groundwater aquifer.

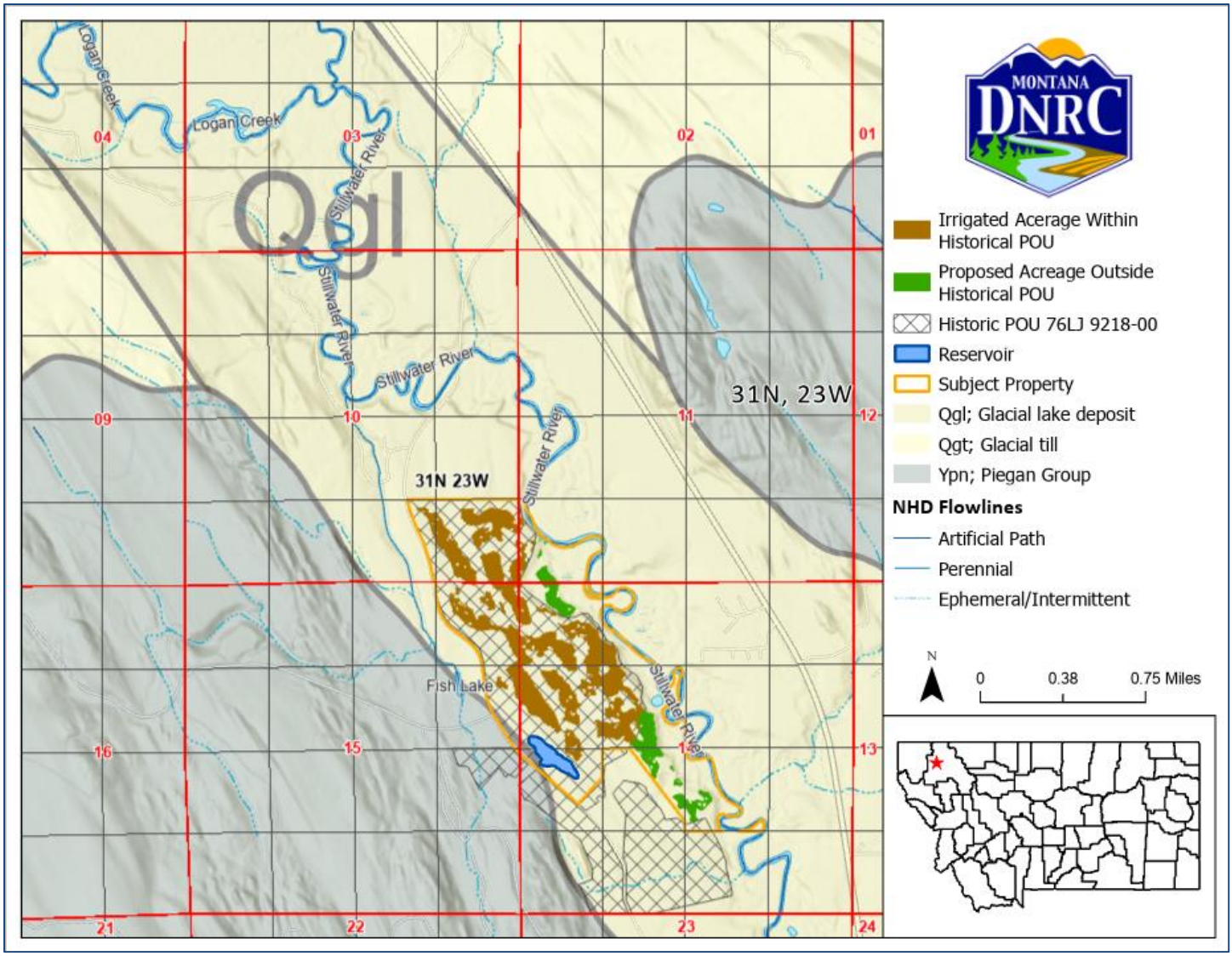


Figure 1: Map illustrating the historical and proposed POUs and geologic units.

Table 1: Published information used to identify hydraulically connected surface water(s).

Published Information	**Surface Water:** Stillwater River	**Surface Water:** Logan Creek
USGS National Hydrographic Dataset (NHD)[1]	Perennial	Perennial
USGS PROSPER Dataset[2]	0.6 to 0.8 (Perennial)	Perennial (Less Confidence): 0.4 – 0.6
MBMG GWIC wells, less than 50 ft deep, within 1,000 ft of surface water, static water levels above or within 10 ft of elevation of stream bed (DNRC, 2018)[3]	No nearby wells that meet criteria, some shallow wells upstream; See **Figure 2**	
Published Water Table Maps, Publications, Previous Water Rights, etc.	LaFave et al. (2004); Coffin et al. (1971); 76LJ 30164368: Stillwater found to be connected to shallow groundwater aquifer	LaFave et al. (2004); Coffin et al. (1971)
Gridded National Soil Survey Geographic Database[4]	Shallow water table present	Shallow water table present
Aerial imagery	Perennial: based on Google Earth historical imagery (accessed 2026) and NAIP 2023 imagery	Perennial: Google Earth historical imagery (accessed 2026) and NAIP 2023 imagery

[1] NHD used to identify perennial, intermittent, and ephemeral classifications for surface water sources most proximal to the proposed diversion(s).

[2] USGS PROSPER probability of streamflow permanence (greater than 50 percent of the time it flows).

[3] Per DNRC (2019) hydraulic connection of individual stream reaches to ground water is evaluated by comparing streambed elevations to static ground water elevations measured in MBMG GWIC wells less than 50 ft deep and within 1,000 ft of surface water or from published water table maps. Surface water within that area is considered hydraulically connected to the unconfined aquifer if static ground water elevations are above or within 10 ft of the elevation of the stream bed.

[4] Gridded National Soil Survey Geographic Database used to identify hydric soils or shallow water tables near surface water sources.

WSB Findings

Based on the review of the published information in **Table 1**, the Stillwater River and Logan Creek are considered to be hydraulically connected to groundwater near the historical and proposed POUs.

3.3 Location of Return Flows

The inverse distance weighting method, described in DNRC (2018) and Section 3.2 of a guidance document developed by the Province of British Columbia (2016), is used to determine the proportion of return flows to surface waters when multiple receiving streams are identified using the distance between the closest point of the POU to the closest point of the given stream. The guidance documents also recommend that when a stream would receive 10% or less of the total return flow volume, then that stream should not be considered as a receiving stream for return flows. The distance to the Stillwater River and Logan Creek is 3,800 ft and 13,000 ft respectively. Following the inverse distance weighted method described in DNRC (2018) and Section 3.2 of a guidance document developed by the Province of British Columbia (2016), the Stillwater River and Logan Creek are assigned 92% and 8% of return flows, respectively. The proportion of the return flow volume

assigned to Logan Creek is less than 10%, which is the recommended cutoff from DNRC (2018). Therefore, based on geologic information, proximity, and information from LaFave et al. (2004) and Smith (2004) in **Table 1**, the Stillwater River is considered hydraulically connected to the source aquifer and the only surface water considered for return flows. The historical and proposed points of return flows to the Stillwater River are shown in **Figure 2**.

Historical return flows total 64.08 AF from 195.2 acres of irrigation. The starting point of return flows would be to the Stillwater River downstream of the northern edge of NWNWSWSW Section 11, Township 31 North, Range 23 West, Flathead County.

Under the proposed change, return flows would be equal to 30.71 AF from 92.09 acres of irrigation and would accrue to the Stillwater River beginning at the northern edge of SWNWSWSW Section 11, Township 31 North, Range 23 West, Flathead County.

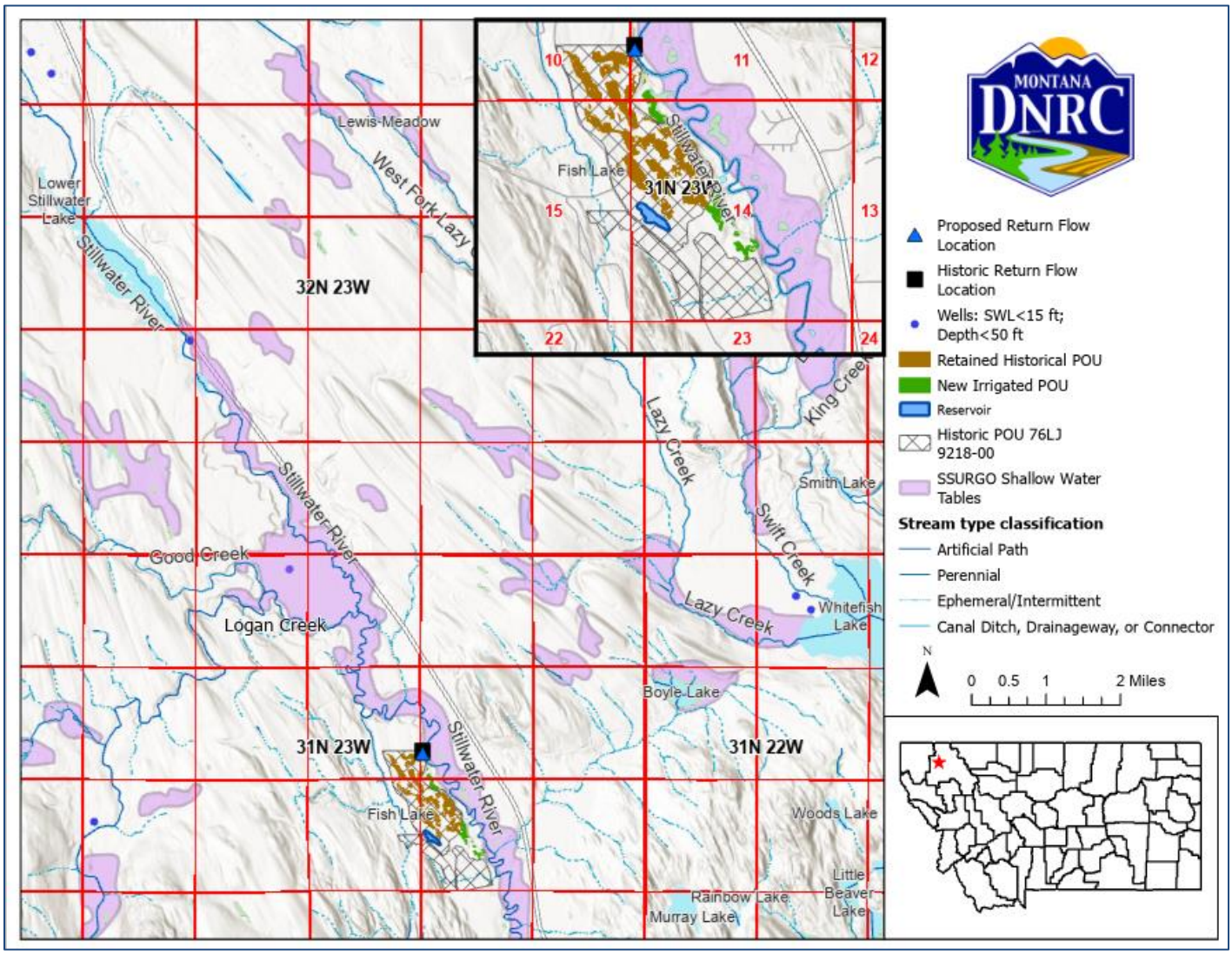


Figure 2: Map showing hydraulically connected surface water and the location of historical and proposed irrigation and return flows.

Review

This document has been reviewed on July 1, 2026 in accordance with Category 7 of DNRC's Water Sciences Bureau Minimum Standards of Review, Version 2, February 2024.

References

DNRC, 2019. Technical Memorandum: Calculating Return Flow. April 18, 2019.

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Leake, S.A., 2011. Capture – rates and direction of groundwater flow don't matter! Groundwater, Vol. 49, No. 4, p. 456 – 458.

Natural Resources Conservation Service (NRCS), 2003. Irrigation Water Requirement (IWR) computer program, http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/water/manage/?cid=stelprdb1044890.

Province of British Columbia, 2016. Determining the Likelihood of Hydraulic Connection – Guidance for the Purpose of Apportioning Demand from Diversion of Groundwater on Streams. Version 1.0. Water Science Series, WSS2016-01. Prov. B.C., Victoria B.C.

U.S. Geological Survey, 2019, The StreamStats program, online at https://streamstats.usgs.gov/ss/, accessed on June, 2026.

Smith, Larry N., 2004, Thickness of the confining unit in the Kalispell valley, Flathead County, Montana : Montana Bureau of Mines and Geology Montana Ground-Water Assessment Atlas 2-B-09, 1 sheet, scale 1:100,000.

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Vuke, S.M., Porter, K.W., Lonn, J.D., and Lopez, D.A., 2007, Geologic Map of Montana - Compact Disc: Montana Bureau of Mines and Geology: Geologic Map 62-C, 73 p., 2 sheets, scale 1:500,000.

Preapplication Materials

- Preapplication Meeting Request
- Preapplication Meeting Form
- All attachments
- All correspondence prior to application receipt

Preapplication Materials

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

May 20, 2026

STILLWATER MOUNTAIN RANCH LLC
7854 FARM TO MARKET RD
WHITEFISH MT 59937-1307

Subject: Complete Preapplication Form for Change Application No. 76LJ 30172463

Dear Applicant,

The Kalispell Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form 600P-Part B and preapplication meeting fee May 13, 2026. The Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on May 20, 2026.

As designated on the submitted Preapplication Meeting Form per § 85-2-302(3)(b), MCA, the Department will produce the technical analyses based on the parameters included in the Preapplication Meeting Form (ARM 36.12.1302(4)) by July 4, 2026, which is 45 days from May 20, 2026.
If you have any questions, please contact me at (406) 752-2702 or Jack.Vanderbilt@mt.gov

Best,

Jack Vanderbilt
Water Resource Specialist
Kalispell Regional Office
Abigail.Williams@mt.gov

CC Via Email: Brad Bennett, Water and Environmental Technologies

PREAPPLICATION MEETING FORM: PART B
CHANGE

§ 85-2-302(3)(b), MCA
Form No. 606P-B *(Revised 02/2025)*

For Department Use Only

Application # 30172463 Basin 76LJ
Form Received 4P
Fee Rec'd $ 500.00 Check # 1511
Deposit Receipt # KLV26284776-02
Payor Water + Environmental Tech Inc.
Form Returned _____
Refund $ _____ Date _____

RECEIVED
DNRC Water Resources
MAY 13 2026
Kalispell Unit

PREAPPLICATION MEETING FEE
$ 500

FILING FEE REDUCTION & EXPEDITED TIMELINE
An application will be eligible for a filing fee reduction and expedited timelines if the Applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of Applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)).

The Applicant is responsible for providing a "Follow-up Responses" document for all follow-up identified in Preapplication Meeting Form Part A (Form 606P-A). The Applicant may not alter Form 606P-A. If a response has changed to a question answered at the preapplication meeting, the Applicant can provide a new response in a separate document entitled "Amended Responses" with the question number labeled.

The following guidelines are applicable to both the "Follow-up Responses" and "Amended Responses" documents. Clearly label all question numbers. Answer questions in the same format as Form 606P-A. For responses in the form of checkboxes, write "Y", "N", or "S". Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is included with the document.

1. ☐ **Y** ☑ **N** Are you submitting this form in response to a determination by the Department that a previously submitted Form 606P-B was inadequately completed?

If yes,

a. Date form was returned ("Form Returned" date found in "For Department Use Only" box on the previously submitted Form 606P-B): _____

b. If a "Follow-up Responses" or "Amended Responses" document is required by questions 2 or 3, submit complete updated documents with responses that stand-alone. The Department will only use the most recently submitted "Follow-up Responses" and "Amended Responses" documents for departmental technical analyses or scientific credibility review; the Department will not use multiple versions of a document.

2. ☑ **Y** ☐ **N** Were any questions identified as requiring follow-up on Form 606P-A?

If yes,

a. ☑ **S** Submit "Follow-up Responses" document for all questions requiring follow-up.

Attachment A

Forms (606P-B Signed)

3. ☑ **Y** ☐ **N** Are you submitting amended responses to any questions from Form 606P-A?

If yes,

a. ☑ **S** Submit "Amended Responses" document and record in the table below each question number with an amended response. The amended response will entirely replace the previous response; the amended response cannot build off the previous response.

Question No.	Question No.	Question No.	Question No.
3			
7			
11			
14			
25			
43			
43.a.			
50.a.ii.6.			
58			
101			
107.a.			
119			
120			
126.b.			

FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"I attest that this preapplication meeting form (Form 606P-A and Form 606P-B), follow-up, and amended responses accurately portray the proposed project. I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if, upon submittal of the application to the department, I change any element of the proposed application from the preapplication meeting form, amended responses, or follow-up materials (ARM 36.12.1302(6)(a))."

Applicant Signature — Date: 5-11-26

Applicant Signature — Date

"We confirm that the preapplication form (Form 606P-A and Form 606P-B), amended responses, and follow-up information are adequate for the Department to proceed with technical analyses in ARM 36.12.1303. Or, if the Applicant has elected to complete technical analyses, we confirm they have submitted each required element of technical analysis based on the proposed project and the Department is able to proceed with the scientific credibility review (ARM 36.12.1303(8))."

Department Signature — Date: 5-20-2026

Department Signature — Date

Attachment B

Request to Correct POD Location

Water & Environmental
TECHNOLOGIES

March 9, 2026

Montana Water Court
P.O. Box 1389
Bozeman, MT 59771

Re: Request to correct Point of Diversion Location for Statement of Claim 76LJ 9218-00

Dear Water Court,

I am writing to request an amendment to the point of diversion for the Subject-Referenced Statement of Claim (76LJ 9218-00).

It appears that the legal land description for the point of diversion listed on the claim abstract does not accurately reflect the physical location of the original diversion structure. The discrepancy likely resulted from generalized mapping methods used when the original claim was prepared.

A site visit completed on March 4, 2026, by WET personnel indicates that the historical point of diversion is located in the SE¼, SE¼, NW ¼, Section 14, Township 31 North, Range 23 West, rather than the location currently listed on the claim abstract. The corrected location better reflects the historical diversion works. A photograph of the pump located at the point of diversion is attached. As shown, the weathering on the pump and associated infrastructure indicates that it is of a vintage consistent with the original use of the water right. Additionally, a handheld global positioning system was utilized to mark the pump location. The coordinates of the pump are 48.45176, -114.49486, which confirms the quarter-quarter-quarter section location above.

This request is intended only to correct the legal land description of the historical point of diversion so that the claim record accurately reflects the historical diversion location. No changes to the historical water use, flow rate, place of use, or period of diversion are proposed.

Please update the legal land description for the point of diversion on this claim accordingly.

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at (406) 309-6085 or jgraham@waterenvtech.com.

Sincerely

Jamie Graham
Project Hydrogeologist, Water & Environmental Technologies

Attachment A

Photographic Documentation of POD Infrastructure



Attachment C

Photographs of Existing Irrigation System



Photograph Number:
1

Photographer: Jamie Graham

Date: March 4, 2026

Photo Location: POD 76LJ 9218-00

Description: Turbine pump at POD on Stillwater River for Statement of Claim 76L:J 9218-00.



Photograph Number:
2

Photographer: Jamie Graham

Date: March 4, 2026

Photo Location: POU near Farm to Market Road

Description: Irrigation riser in foreground, POU for Statement of Claim 76LJ 9218-00 in background.



Photograph Number:
3

Photographer: Jamie Graham

Date: March 4, 2026

Photo Location: POU 76LJ 9218-00

Description: Irrigation riser within POU for Statement of Claim 76LJ 9218-00.



Photograph Number:
4

Photographer: Jamie Graham

Date: March 4, 2026

Photo Location: POU 76LJ 9218-00

Description: Irrigation riser in POU for Statement of Claim 76LJ 9218-00.

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION

"We attest that the information on this form accurately describes the proposed project discussed during the preapplication meeting and that the items marked for follow-up will require the applicant to provide additional information before the form is deemed complete."

"Applicant acknowledges that any information provided by the Department during the preapplication meeting is preliminary and subject to change."

"Applicant acknowledges that if the follow-up information provided to the Department substantially changes the proposed project, for example in a way that alters which sections of the form are applicable or which technical analyses are required, or who is to complete the technical analyses, the applicant will need to schedule a new preapplication meeting so that the Department can identify any additional information necessary for completion of the technical analyses (ARM 36.12.1302(3)(c))."

Upon Department receipt of the completed form (within 180 days following the meeting), the Department reserves five business days to return the form to the applicant if:

1 – the completed form does not include all necessary follow-up information identified in the meeting, OR
2 – the completed form is not adequate for the Department to proceed with technical analyses, OR
3 – the applicant has elected to complete technical analyses and has not submitted each piece of technical analysis required, OR
4 – the applicant has substantially changed the details of the proposed project, such as in a way that alters which sections of the form are applicable, which technical analyses are required, or who is to complete the technical analyses.

If the Department returns the form to the Applicant within these five days due to reasons 1-3 above, the Applicant can use the balance of their 180-day period in ARM 36.12.1302(4) or (5) to gather the remaining follow-up information needed. If there is no time remaining in the 180-day period, the Applicant can submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). Even if there is still time remaining, the Applicant can choose to schedule a new preapplication meeting. The Department shall transfer the $500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires. If the Department returns the form to the Applicant within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the $500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires.

Applicant Signature	11/28/2025 Date
Applicant Signature	Date
Department Signature	12/15/2025 Date

Water & Environmental
TECHNOLOGIES

May 11, 2026

Jim Ferch
DNRC Regional Office
655 Timberwolf Parkway, Ste 4
Kalispell, MT 59901

Re: Form 606 Application to Change A Water Right – Statement of Claim No. 76LJ 9218-00 / Application No. 76LJ 30172463; Stillwater Mountain Ranch LLC

Dear Jim,

This correspondence accompanies and supports the submittal of a Form 606P-B – Preapplication Meeting Form: Part B on behalf of Stillwater Mountain Ranch. The application seeks authorization to change the point of diversion (POD), place of use (POU) and add a place of storage to Statement of Claim 76LJ 9218-00.

A signed and fully completed Form 606P-B is provided as **Attachment A**. The form is signed by authorized signer Beckie Reynolds. Additional supporting documentation is included herein and attached, as necessary, to supplement the information presented in the application.

Application Background

Stillwater Mountain Ranch LLC proposes a change authorization for Statement of Claim 76LJ 9218-00, a surface water irrigation right sourced from the Stillwater River in Flathead County, Montana. The proposed project includes a change in point of diversion, place of use, and addition of a place of storage associated with redevelopment of the historically irrigated agricultural property into an 18-hole golf course and associated amenities.

Historically, Statement of Claim 76LJ 9218-00 was used to irrigate approximately 195.2 acres associated with the Applicant's property. Under the proposed project, agricultural irrigation on these historically irrigated lands will cease. Water historically diverted under the claim will instead be used to irrigate the proposed golf course and associated landscaped amenities.

The proposed golf course irrigation system includes approximately 92.09 irrigated acres. Of the proposed irrigated acreage, approximately 77.92 acres are located within the historical place of use associated with the water right, while approximately 14.17 acres are proposed outside the historical irrigation footprint. The addition of acreage outside the historical place of use is offset by retirement of a substantially larger area of historically irrigated agricultural land. Overall, the proposed project results in a substantial reduction in total irrigated acreage relative to historical use.

The proposed project also includes construction of a lined irrigation storage reservoir intended to improve operational flexibility and irrigation efficiency associated with golf course operations.

The proposed reservoir will have an approximate surface area of 3.9 acres, a maximum depth of approximately 15 feet, and a total storage volume of approximately 29.25 acre-feet.

The proposed project does not propose mitigation or commercial components as originally contemplated. Historical use, consumptive use, and return flow analyses are proposed to be completed consistent with DNRC standards and applicable administrative rules.

Follow-Up Responses

8. Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

Historical aerial imagery from 1974, 1990, and 2011 are included as **Figures 1, 2, and 3,** respectively. Existing water rights, with overlapping places of use are illustrated in **Figure 5**.

9. Submit a proposed use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all proposed points of diversion labeled with a unique POD ID ("P" followed by a number), all proposed places of use, all proposed conveyance structures, all proposed places of storage, and proposed place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

A proposed use map illustrating the proposed POD (P1), the proposed POU, and proposed place of storage is provided as **Figure 6**. Existing water rights, with overlapping places of use are illustrated in **Figure 5**. As shown, no water rights will overlap the proposed place of use.

10.a. If yes, describe the location for all new and unchanged points of diversion to the nearest 10 acres. Label POD ID with the POD ID assigned for the proposed use map (question9).

P1, SE ¼ SE ¼ NW ¼, Section 14, TWP 31N, RGE 23W, Flathead County, New

13a.ii. Describe the legal land description of the proposed place of use and, if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Govt Lot	¼	¼	¼	Sec	Twp	Rge	County
18.48			S2	SE	10	31N	23W	Flathead

3.34			SW	SW	11	31N	23W	Flathead
19.44			N2	NW	14	31N	23W	Flathead
31.37			S2	NW	14	31N	23W	Flathead
4.50			N2	SW	14	31N	23W	Flathead
2.47			NW	SE	14	31N	23W	Flathead
10.45			NE	NE	15	31N	23W	Flathead
2.04			SE	NE	15	31N	23W	Flathead
92.09	Total							

37. The historical use map submitted for question 8 must clearly identify the entire place of use for each overlapping water right that intersects the historical place of use. Does your historical use map meet this requirement?

Historical aerial imagery from 1974, 1990, and 2011 are included as **Figures 1, 2, and 3,** respectively. Existing water rights, with overlapping places of use are illustrated in **Figure 5**. Note that none of the overlapping water rights were utilized to supplement irrigation on this historically irrigated acres.

39.b.i.1a. If no, submit evidence that can corroborate the historical place of use, including the number of irrigated acres. This includes, but is not limited to, aerial photographs, irrigation journals, or logs.

Historical aerial imagery from 1974, 1990, and 2011 are included as **Figures 1, 2, and 3**, respectively. The historically irrigated acres associated with Statement of Claim 76LJ 9218-00 is 287.6. Of those, a total of 195.2 acres are associated with property owned by the Applicant.

41.a. If no, explain the discrepancy and submit historical aerial photographs and/or other data sources to corroborate the location of these historical points of diversion, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim.

No. WET personnel completed a site visit on March 4, 2026 to inspect the POD location. The POD is located upstream of the claimed POD. WET mapped the location of the POD utilizing a handheld GPS and photographed the pump and associated power supply and diversion infrastructure. Based on the weathering on the pump and associated infrastructure, it appears to be of vintage consistent with the claimed priority date of the water right. The mapping discrepancy likely resulted from generalized mapping methods used when the original claim was prepared.

A request to correct the point of diversion has been submitted to the water court along with appropriate documentation. A copy of this request is provided as **Attachment B**.

42.b.i. For each pump, dike, dam, or other surface water point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the

historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).

Available information concludes that the submersible turbine pump utilized to divert water for irrigation has a capacity of approximately 2,500 gpm (5.57 CFS). WET completed a brief site investigation and confirmed the pump installed appears to be of the original vintage. Based on the historically irrigated acres associated with 76LJ 9218-00, the pump is anticipated to provide 8.59 GPM/acre, which is in the appropriate range for sprinkler irrigation via hand and wheel line sprinkler systems. Photographs of the pump station and the existing risers are provided as **Attachment C**.

60. Submit a map showing the new, unchanged historical, and retired historical places of use. Create map on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, and north arrow.

A map illustrating the new, unchanged historical, and retired historical places of use is provided as **Figure 7**.

61. How many acres, if any, will be retired from the historical place of use?

117.28

62. Are irrigated acres proposed that are outside the historical place of use?

Y

62.a.i. How many acres?

14.17

62.a.ii. What is the proposed irrigation method type (e.g., flood or sprinkler) and subtype (e.g., level border, graded border, furrow, contour ditch, wild flood, center pivot, or wheel line) for the new acres?

Sprinkler (underground sprinkler system)

62.a.iii. What is the slope (%) of the new place of use?

n/a

62.a.iv. Based on 62.a.iito 62.a.iii, what is the percent efficiency of irrigation for the new acres?

70

62.a.v. What is the County Management Factor for the new acres?

96.6%

62.vi. What is the ET based on the irrigation method and county for the new acres?

18.61

62.vii. What percent of applied water are irrecoverable losses for new acres?

10

102. Identify the new and unchanged purposes, flow rate (GPM or CFS), volume (AF), period of diversion, and period of use (MM/DD-MM/DD) for each purpose.?

N/A

107.b. What is the percentage of consumption for the proposed use? Please explain.

N/A

125.a. Identify the water right(s) for which the mitigation/aquifer recharge water will be used.

N/A

125.b. Identify the application or preapplication number where these water rights were identified as needing mitigation or aquifer recharge to meet the adverse effect criterion.

N/A

125.c. What is the timing, flow rate, and volume of net depletions identified as needing mitigation or aquifer recharge to meet the adverse effect criterion?

N/A

126.a. What is legal land description (¼ ¼ ¼ section of start and end) and length (ft) of the mitigation reach?

N/A

Amended Responses

3. Which water right(s) are proposed for change?

Flow Rate Needed for this Project: **3.34 CFS**. No other components of the table are changed.

7. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.

The elements proposed for change include the following:

- Point of Diversion
- Place of Use
- Place of Storage

11. Describe the location of all historical PODs you propose to retire. Label POD ID with the POD ID assigned for the historical use map (question8). If none are proposed for retirement, write "N/A" here: _H1_

Update Table: H1, NW ¼ NW ¼ SE ¼, Section 14, TWP 31N, RGE 23W, Flathead

14. Does the proposed change include a change in purpose of use?

N

25. Does the application include a mitigation, aquifer recharge, or marketing for mitigation/aquifer recharge purpose?

N

43. Do other water rights share any of the points of diversion?

Y

43.a. If yes, list the water rights, their flow rates (GPM or CFS), and the nature of the relationship. Label using the same POD ID letter as for the Historical Use Map (question8).

P-1, 76LJ 30174766, 5.57 CFS, Common point of diversion of child right.

It is important to note that Statement of Claim 76LJ 30174766 is a child right of Statement of Claim 76LJ 9218-00. The owners of 76LJ 30174766 do not have legal access to the existing point of diversion. Currently, the owners of Statement of Claim 76LJ 30174766 are seeking to change the point of diversion associated with their water right to property that they own.

50.a.ii.6. What is evapotranspiration (ET)based on the irrigation method and county?

15.74

58. Does the proposed change include a change in purpose?

N

101. Does the project involve a change in purpose?

N

107.a. What is the other purpose (e.g., municipal, commercial)?

N/A

119. What is the proposed capacity of the place of storage? Use bathymetry data, survey, or engineering plans for capacity. Submit the data source used with this form. In lieu of these data sources, use the following equation: *Surface Acres x Maximum Depth (ft) x 0.5 = Capacity (AF)*

3.9 acres x 15 feet x 0.5 = 29.25 acre-feet

120. What is the proposed surface area of the place of storage?

3.9 acres

124. Does your application include one of the following purposes?

N

126.b. By what means will mitigation water be made available? You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA).

N/A

Form 606 Attachments:

The following attachments are provided in support of this application:

Figures
Attachment A – Forms (606P-B – Signed)
Attachment B – Request to Correct POD Location
Attachment C – Photographs of Existing Irrigation System

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at (406) 309-6083 or bbennett@waterenvtech.com.
Sincerely,

Brad Bennett, PG
Senior Hydrogeologist
Water & Environmental Technologies

Figures

Total Ranch Acreage
Overlap with Place
of Use: 195.2

Total Place
of Use
Acreage: 287.6

POD 76LJ
9218-00

WR 76LJ
30174766:
3.4 Acres

Star Meadow Rd

Farm To Market Rd

Mountain Home Rd

Stillwater River

US Highway 93 W

Highway 93 N

0 350 700 1,400 2,100 2,800 Feet

- Point of Diversion
- Place of Use for WR 76LJ 9218-00
- Stillwater Mountain Ranch Property Overlap with Place of Use for WR 76LJ 9218-00
- Water Right 76LJ 30174766
- Stillwater Mountain Ranch Property Boundary

MONTANA

Rexford, Eureka, Fortine, Stryker, Olney, Whitefish, Columbia Falls, Polebridge, Babb, GLACIER COUNTY, Blackfoot, Browning, West Glacier, East Glacier Park, FLATHEAD COUNTY, Essex, Heart Butte, Kalispell, Happys Inn, Marion, Bigfork, Lakeside, Swan Lake, Dayton, Polson, LAKE COUNTY, Pablo, Ronan, Condon, Hot Springs

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/2/26	LG	RB
2	ADD WATER RIGHT	4/21/26	LG	RB
3				
4				
5				

Aerial Imagery: 2023

WATER RIGHT 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 1

JOB#: 1900.25

DATE: 5/11/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900.25 Homestead GC SW Change\SM1 Mapping\GIS\WP\Figures\Figure1.aprx, Author: lgeorge

Water & Environmental TECHNOLOGIES

Point of Diversion
Irrigation Mainline
Place of Use for WR 76LJ 9218-00
Stillwater Mountain Ranch Property Overlap with Place of Use for WR 76LJ 9218-00
Water Right 76LJ 30174766
Stillwater Mountain Ranch Property Boundary

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	BB
2				
3				
4				
5				

Aerial Imagery: 1974

Total Ranch Acreage Overlap with Place of Use: 195.2

Total Place of Use Acreage: 287.6

POD H-1
76LJ 9218-00

WR 76LJ 30174766: 3.40 Acres

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
Highway 93 N
US Highway 93 W
Wild Horse Ranch
Raccoon Trl
Graham Ln
31N 23W

0 300 600 1,200 1,800 2,400 Feet

HISTORIC IMAGERY WATER RIGHT 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 2

JOB#: 1900-25
DATE: 5/11/2026

Path: P:\1900\25 Stillwater Mountain Ranch\1900-25 Homestead GIS WR Change\MXD

Water & Environmental TECHNOLOGIES

Point of Diversion
Irrigation Mainline
Place of Use for WR 76LJ 9218-00
Stillwater Mountain Ranch Property Overlap with Place of Use for WR 76LJ 9218-00
Water Right 76LJ 30174766
Stillwater Mountain Ranch Property Boundary

Total Ranch Acreage Overlap with Place of Use: 195.2

Total Place of Use Acreage: 287.6

WR 76LJ 30174766: 3.40 Acres

POD H-1 76LJ 9218-00

31N 23W

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
Highway 93 N
US Highway 93 W
US Highway 93 W
Wild Horse Ranch
Raccoon Trl
Graham Ln

0 300 600 1,200 1,800 2,400 Feet

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	MB
2				
3				
4				
5				

Aerial Imagery: 1990

HISTORIC IMAGERY WATER RIGHT 76LJ 9218-00

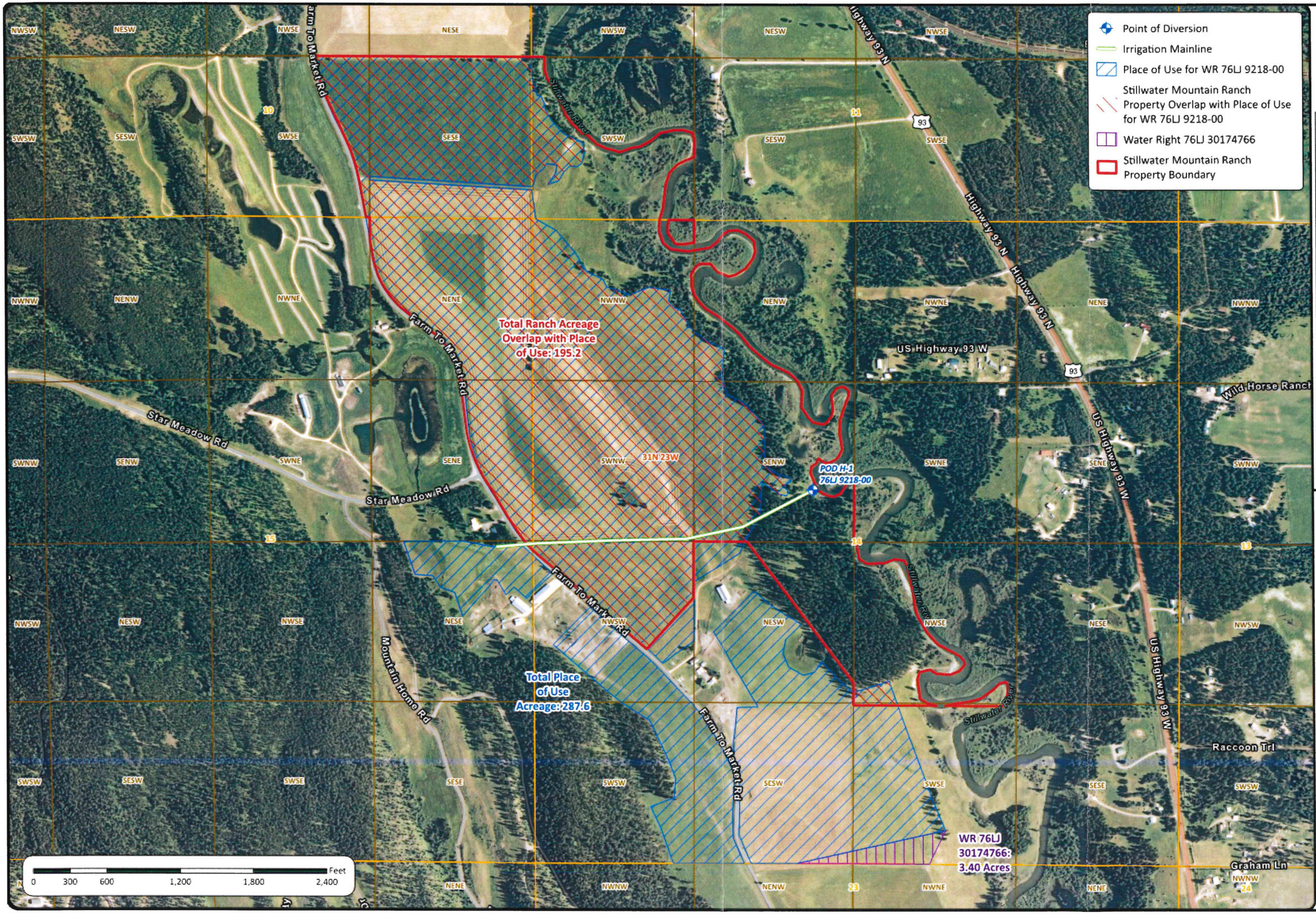
HOMESTEAD WATER RIGHT CHANGE

FIGURE 3

JOB#: 1900.25
DATE 5/11/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900.25 Homestead GIS WR Change\MXD

Water & Environmental TECHNOLOGIES



NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/26	LG	RB
2				
3				
4				
5				

Aerial Imagery: 2011

HISTORIC IMAGERY WATER RIGHT 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 4

JOB#: 1900.25

DATE: 5/11/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900.25-Homestead Grt WR Change\MXD

Water & Environmental TECHNOLOGIES

WRQS Point of Diversion
Point of Diversion
Stillwater Mountain Ranch Property Boundary
Stillwater Mountain Ranch Property Overlap with Place of Use for WR 76LJ 9218-00
Water Right 76LJ 30174766
Place of Use for WR 76LJ 9218-00

Water Rights Overlapping with 76LJ 9218-00

76LJ 71028 00
76LJ 30148526, 76LJ 30148527, and 76LJ 30162647
76LJ 30149157

Total Ranch Acreage Overlap with Place of Use: 195.2

Total Place of Use Acreage: 287.6

WR 76LJ 30174766: 3.40 Acres

76LJ 71028 00
POD H-1 76LJ 9218-00
76LJ 30162647
76LJ 30148527
76LJ 30148526
76LJ 30149157

Farm To Market Rd
Star Meadow Rd
Mountain Home Rd
Stillwater River
Highway 93 N
US Highway 93 W
Wild Horse Ranch
Raccoon Trl
Graham Ln
31N 23W

0 300 600 1,200 1,800 2,400 Feet

N
W E
S

NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/30/26	LG	BB
2				
3				
4				
5				

Aerial Imagery: 2023

WATER RIGHTS OVERLAPPING 76LJ 9218-00

HOMESTEAD WATER RIGHT CHANGE

FIGURE 5

JOB#: 1900-25
DATE: 5/11/2026

Path: P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GL WR Change\Sti

Water & Environmental TECHNOLOGIES

LEGEND

- POINT OF DIVERSION
- PLACE OF USE
- PLACE OF STORAGE

TOTAL IRRIGATED AREA

- PROPOSED TEE BOXES
- PROPOSED GREENS
- PROPOSED FAIRWAYS
- PROPOSED BUNKERS

TOTAL IRRIGATED AREA = 92.09 ACRES

TEE BOXES	=	4.51 ACRES
GREENS	=	4.72 ACRES
FAIRWAYS	=	82.86 ACRES

SECTION 11
T31N R23W
SW1/4

SECTION 14
T31N R23W

SECTION 10
T31N R23W
SE1/4

SECTION 15
T31N R23W
NE1/4

NW1/4

SW1/4

SE1/4

STILLWATER RIVER

POD #1

IRRIGATION PIPE

FARM TO MARKET ROAD

Reservoir #1
Depth 15 Feet
Surface Area 169,884 Sq Ft
Capacity 29.25 Acre-feet

N

0 250 500 FEET

No.	Description	Date	Drawn By

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TECHNOLOGIES
102 Cooperative Way
Suite 100
Kalispell, MT 59901
(406) 756-2550
waterenvtech.com

Proposed Water Use

PROJECT NAME: HOMESTEAD GOLF COURSE WATER RIGHT CHANGE
LOCATION: FLATHEAD COUNTY, MT
FILE NO: HomesteadGC Water Rights Figure - Golf Course.dwg

JOB NO:	1900-25
DATE:	5/13/26
DRAFTER:	ZH
CHECKED BY:	BB

SHEET
FIG. 6

P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\36\1 - Mapping\ACAD\HomesteadGC Water Rights Figure - Golf Course.dwg PLOT DATE 2026-5-13 08:27 USER: zhefferman

LEGEND

- NEW IRRIGATED PLACE OF USE
- UNCHANGED PLACE OF USE
- RETIRED PLACE OF USE
- EXISTING WATER RIGHT

RETIRED USE AREA = 117.28 ACRES

UNCHANGED PLACE OF USE = 77.92 ACRES

OUTSIDE OF HISTORIC USE AREA = 14.17 ACRES

- $SW\frac{1}{4}$ OF $SW\frac{1}{4}$ OF SECTION 11 = 1.68 ACRES
- $NW\frac{1}{4}$ OF $NW\frac{1}{4}$ OF SECTION 14 = 2.98 ACRES
- $SE\frac{1}{4}$ OF $NW\frac{1}{4}$ OF SECTION 14 = 3.49 ACRES
- $NE\frac{1}{4}$ OF $SW\frac{1}{4}$ OF SECTION 14 = 3.62 ACRES
- $NW\frac{1}{4}$ OF $SE\frac{1}{4}$ OF SECTION 14 = 2.40 ACRES

TOTAL IRRIGATED AREA = 92.09 ACRES

SECTION 10
T31N R23W

SECTION 11
T31N R23W

SECTION 15
T31N R23W

SECTION 14
T31N R23W

SE1/4

SW1/4

NE1/4

NW1/4

SW1/4

SE1/4

FARM TO MARKET ROAD

STILLWATER RIVER

N

0 400 800 FEET

No	Description	Date	Drawn By

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Proposed POU

PROJECT NAME: HOMESTEAD GOLF COURSE WATER RIGHTS CHANGE
LOCATION: FLATHEAD COUNTY, MT
FILE NO: HomesteadGC Water Rights Figure - Golf Course.dwg

JOB NO:	1900-25
DATE:	5/13/26
DRAFTER:	ZH
CHECKED BY:	BB

SHEET
FIG. 7

P:\PROJECTS\Stillwater Mountain Ranch\1900-25 Homestead GC WR Change\350 - Mapping\ACAD\Homestead\GC Water Rights Figure - Golf Course.dwg PLOT DATE 2026-5-13 08:27 USER: zhofferman

PREAPPLICATION MEETING FORM: PART A

CHANGE

§ 85-2-302(3)(b)

Form No. 606P-A *(Revised 10/2025)*

For Department Use Only

Application # 30172463 Basin 76LJ

Meeting Date 11/25/2025 Time 13:00

Variance Request Deadline 04/12/2026

Completed Form Deadline 05/24/2026

RECEIVED
12/15/2025
DNRC
KALISPELL WATER RESOURCES

PREAPPLICATION MEETING FEE

$ 500

FILING FEE REDUCTION & EXPEDITED TIMELINE

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)).

The Department will fill out Form 606P-A and will identify items for follow-up during the preapplication meeting. The Department and Applicant will sign the Preapplication Meeting Affidavit and Certification within 10 business days. Within 180 days of the preapplication meeting, the Applicant will complete Preapplication Meeting Form Part B (Form 606P-B), including identified follow-up, any amended responses, and the Follow-up and Amended Responses Affidavit & Certification.

Applicant Information: *Add more as necessary.*

Applicant Name Stillwater Mountain Ranch LLC, Attn: Stacy Smith
Mailing Address 7854 Farm to Market Rd City Whitefish State MT Zip 59937
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Contact/Representative Information: *Add more as necessary.*

Contact/Representative is: ☐Applicant ☑Consultant ☐Attorney ☐Other (describe) _____
Contact/Representative Name Water & Environmental Technologies - Brad Bennett
Mailing Address 102 Cooperative Way, Suite 100 City Kalispell State MT Zip 59901
Phone Numbers: Home _____ Work 406-309-6085 Cell _____
Email Address bbennett@waterenvtech.com

NOTE: *If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary. If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondence and a copy may be sent to the contact person. (ARM 36.12.122)*

Meeting Attendees: *Add more as necessary.*

Name	Organization	Position
Brad Bennett	WET	Consultant
Abigail Williams	DNRC	Water Resouce Specialist
James Ferch	DNRC	Kalispell Office Manager
Kim Bolhuis	DNRC	Groundwater Hydrologist

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Application Details

The following questions are mandatory and must be filled out before the Preapplication Meeting Form is determined to be complete. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment ("A") checkbox on this form and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and the see attachment ("A") checkbox must be marked. Label units in narrative responses and tables. Questions that require Applicant to submit items to the Department have a submitted ("S") checkbox, which is marked when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted. For all questions where follow-up is necessary, mark the "F" checkbox in the "Follow-Up" column and write the question number on the "Follow-Up Page".

S = Submitted. *Use when required item is included with form.*
A = See attachment. *Use when additional space is needed to answer a question.*
F = Follow-up. *Use when follow-up is necessary.*

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
1. Do you elect to have DNRC conduct technical analyses?	☑ Y ☐ N	☐ F
2. How many change applications will be needed for this project? Please refer to ARM 36.12.1305 for more information. 1		☐ F
3. Which water right(s) are proposed for change?	☐ A	☐ F

Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion
	Flow	*GPM*	*CFS*	*Flow*	*GPM*	*CFS*	
76LJ 9218-00	5.57	☐	☑	3.73	☐	☑	Pump
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	

4. Is the proposed change on a non-filed water project?	☐ Y ☑ N	☐ F
a. If yes, please submit a Non-Filed Water Project Addendum (Form 606/634-NFWPA). The project must meet the requirements of the addendum. The addendum is required before the Preapplication Meeting Form is completed.	☐ S	☐ F

5. Is the source surface water or groundwater? Surface Water		
6. What is the source name? Stillwater River		
7. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.	☐ A	☐ F

Water Right #	76LJ 9218-00					
Point of diversion	☑	☐	☐	☐	☐	☐
Place of use	☑	☐	☐	☐	☐	☐
Purpose of use	☑	☐	☐	☐	☐	☐
Place of storage	☑	☐	☐	☐	☐	☐

8. Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	☐ S	☑ F
9. Submit a proposed use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all proposed points of diversion labeled with a unique POD ID ("P" followed by a number), all proposed places of use, all proposed conveyance structures, all proposed places of storage, and proposed place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	☐ S	☑ F
10. Does the change involve a change in point of diversion?	☑ Y ☐ N	☐ F
a. If yes, describe the location for all *new* and *unchanged* points of diversion to the nearest 10 acres. Label POD ID with the POD ID assigned for the proposed use map (question 9).	☐ A	☑ F

POD ID	¼	¼	¼	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged
P1	SW	SW	SW	11	31N	23W	Flathead						New

11. Describe the location of all historical PODs you propose to *retire*. Label POD ID with the POD ID assigned for the historical use map (question 8). If none are proposed for retirement, write "N/A" here: H1 ☐ A ☐ F

POD ID	¼	¼	¼	Sec.	Twp.	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot
H1	SW	NW	SE	14	31N	23W	Flathead					

12. What is the means of diversion for all *new* PODs? Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others. ☐ F
Pump

13. Does the change involve a change in place of use? ☑ Y ☐ N ☐ F

a. If yes,

i. What are the geocodes of the proposed place of use? ☐ A ☐ F

07429110401110000	07429114301100000
07429115101190000	
07429111301100000	
07429114201050000	
07429114201030000	

ii. Describe the legal land description of the proposed place of use and, if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres. ☐ A ☑ F

Acres	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County
					11	31N	23W	Flathead
					14	31N	23W	Flathead
					15	31N	23W	Flathead
90	***Total***							

iii. Do other water rights supplement or overlap the historical and/or proposed place of use?	☐ Y ☑ N	☐ F
1. If yes,		
a. How were the water rights operated to serve the historical purposes and how will they be operated to serve the proposed purposes? _____ _____ _____ _____	☐ A	☐ F
b. For each supplemental or overlapping water right, please list whether they contribute water for historical use, proposed use, or both; the average period of contribution (MM/DD-MM/DD); flow rate contributed (GPM or CFS); and, if known, the volume of water contributed (AF) contributed (otherwise write "unknown").	☐ A	☐ F

Water Right No.	**Contributions to Use**			**Average Period of Contribution**	**Flow Rate Contributed**			**Volume Contributed**
	Hist.	*Prop.*	*Both*	*MM/DD-MM/DD*	*Flow*	*GPM*	*CFS*	*AF*
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	

14. Does the proposed change include a change in purpose of use? If yes, answer questions 101 to 108 for change in purpose of use and question 13.a.iii for supplemental or overlapping water rights.	☑ Y ☐ N	☐ F
15. Are conveyance ditches used for historical or proposed uses? If yes, answer ditch-specific questions 109 to 115.	☐ Y ☑ N	☐ F
16. Do you propose to add or modify one or more places of storage? This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)). If yes, answer mandatory questions 116 to 123. Additionally, you may choose to answer non-mandatory questions 175 to 179. A Change Storage Addendum (Form 606-SA) will be required at application submittal.	☑ Y ☐ N	☐ F
17. Is the proposed use temporary? If yes, answer questions 94 to 100 for temporary changes.	☐ Y ☑ N	☐ F
18. Are you filing on behalf of another entity? If yes, describe. _____ _____	☐ Y ☑ N	☐ F

19. Do you own the entire historical place of use for all water rights proposed for change?	☑ Y ☐ N	☐ F
a. If no, was the water historically used for sale, rental, distribution, municipal use, or any other context in which water is being supplied to another and it is clear that the ultimate user would not accept the supply without consenting to the use of water on the user's place of use?	☐ Y ☐ N	☐ F
i. If no,		
1. List the water rights for which you do not own the entire historical place of use. _____	☐ A	☐ F
2. Are the water rights listed in question 19.a.i.1 severed from the historical POU?	☐ Y ☐ N	☐ F
a. If yes, do you own the entirety of the severed water rights proposed for change?	☐ Y ☐ N	☐ F
i. If yes, skip to question 20. If no, answer question 19.a.i.3.		
b. If no, answer question 19.a.i.3.		
3. Are all owners of the historical place of use or, if applicable, owners of the severed water rights, willing to sign the application?	☐ Y ☐ N	☐ F
a. If no,		
i. A Form 641 or 642 to split the water rights being changed must be received and processed by the Department prior to application submittal.		
ii. Describe how the water rights will be split, and which part of the split water rights will be proposed for change. _____ _____ _____	☐ A	☐ F
20. Are you proposing to add a point of diversion or place of use on State of Montana Trust Land?	☐ Y ☑ N	☐ F
a. If yes,		
i. Documentation of consent from the DNRC Trust Lands Management Division will be required at application submittal.		
ii. Do you propose to add a place of use on Trust Land with all points of diversion on private land? If yes, the change authorization will be temporary for the duration of the lease term (§85-2-441, MCA); answer temporary change project-specific questions 94 to 100.	☐ Y ☐ N	☐ F

21. Will your system be designed to discharge water from the project?	☐ Y ☑ N	☐ F
a. If yes, explain the wastewater disposal method. A discharge permit may be required to comply with §§ 75-5-410 and 85-2-364, MCA. _____ _____ _____	☐ A	☐ F
22. Is the application to change the purpose of use or place of use of an appropriation of 4,000 or more acre-feet (AF) of water a year and 5.5 or more cubic feet per second (CFS)? If yes, you must submit a Reasonable Use Addendum (Form 606-B) with the application. The reasonable use criteria are found in §85-2-402(4-5), MCA.	☐ Y ☑ N	☐ F
23. Will you be transporting water for use outside of Montana? If yes, you will need to submit an Out-of-State Use Addendum (Form 600/606-OSA) with the application. The out-of-state use criteria are outlined in §85-2-402(6), MCA.	☐ Y ☑ N	☐ F
24. Is the project located in designated sage grouse habitat? If yes, a review letter from the Montana Sage Grouse Habitat Conservation Program will be required at application submittal.	☐ Y ☑ N	☐ F
25. Does the application include a mitigation, aquifer recharge, or marketing for mitigation/aquifer recharge purpose? If yes, answer mandatory questions 124 to 129. Additionally, you may choose to answer non-mandatory questions 185 to 190. A Mitigation Addendum (Form 600/606-MIT) will be required with application submittal.	☑ Y ☐ N	☐ F
26. Does the application include the water marketing purpose? This does not include marketing for mitigation/aquifer recharge. If yes, answer the following question. Additionally, you may choose to answer non-mandatory questions 191 to 195. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.	☐ Y ☑ N	☐ F
a. For what purposes will the marketed water be used? _____ _____ _____	☐ A	☐ F
27. Does the proposed purpose include instream flow? If yes, answer mandatory questions for instream flow changes 130 to 136. Additionally, you may choose to answer non-mandatory questions 180 to 184. A Change to Instream Flow Addendum (Form 606-IFA) will be required with application submittal.	☐ Y ☑ N	☐ F
28. Will the proposed use include water made available through creation of a “water saving method” (i.e., salvage water) as defined in ARM 36.12.101? If yes, answer questions 137 to 141 for Salvage Water.	☐ Y ☑ N	☐ F

Historical Use

The following questions are mandatory and must be filled out for both Surface Water and Groundwater Applications before the Preapplication Meeting Form is determined to be complete.

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
29. What is the water right type for each water right proposed for change? Answer question 30 for each Statement of Claim, question 31 for each Provisional Permit, and question 32 for water right that is not a Statement of Claim or Provisional Permit. Statement of Claim _____	☐ A	☐ F
30. In the table below, write the water right number for each Statement of Claim proposed for change in the "Statement of Claim Number" column. If there is one or more previous change authorizations, write the application numbers for the change authorizations in the "Previous Change Authorization Number" column. If there are no previous change authorizations, write "none" in the "Previous Change Authorization Number" column and "N/A" in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the "Project Completion Notice Date" column and if no Project Completion Notice has been submitted, write "none" instead. In the "Previous Historical Use Analysis Quality" column, describe the quality of the previous historical use analysis.	☐ A	☐ F

Statement of Claim Number	Previous Change Authorization Number	Project Completion Notice Date	Previous Historical Use Analysis Quality
Statement of Claim	n/a	n/a	n/a

31. In the table below, write the water right number for each Provisional Permit proposed for change in the "Provisional Permit Number" column. In the "Project Completion Notice Date" column, write the date of the Project Completion Notice and if no Project Completion Notice has been submitted, write "none" instead. Write the application number for each previous change authorization in the "Previous Change Authorization Number" column. If there are no previous change authorizations, write "none" in the "Previous Change Authorization Number" column and "N/A" in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the "Previous Change Project Completion Notice" column and if no Project Completion Notice has been submitted, write "none" instead. In the "Previous Change Historical Use Analysis Quality" column, describe the quality of the previous historical use analysis.	☐ A	☐ F

Provisional Permit Number	Project Completion Notice Date	Previous Change Authorization Number	Previous Change Project Completion Notice Date	Previous Historical Use Analysis Quality

32. In the table below, write the water right number for each water right proposed for change that is not a Statement of Claim or Provisional Permit, the type of water right, and the completion date. If a Groundwater Certificate, the completion date will be the date of filing. If an exempt or non-filed water right, the completion date will be July 1, 1973. If there are one or more previous change authorizations, write the application number for each change authorization in the "Previous Change Authorization Number" column. If there are no previous change authorizations, write "none" in the "Previous Change Authorization Number" column and "N/A" in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the "Previous Change Project Completion Notice Date" column and if the previous change authorization does not have a Project Completion Notice, write "none" instead. In the "Previous Historical Use Analysis Quality" column, describe the quality of the previous historical use analysis.	☐ A	☐ F

Water Right Number	Water Right Type	Completion Date	Previous Change Authorization Number	Previous Change Project Completion Notice Date	Previous Historical Use Analysis Quality

33. Are there previous Montana Water Court approved stipulations, Water Master reports, or prior Montana Water Court or Department decisions related to the water right(s) being changed?	☐ Y ☑ N	☐ F
a. If yes, explain. _____ _____ _____ _____ _____ _____	☐ A	☐ F
34. Fill in the table below based on ARM 36.12.1902(1) and the information provided in questions 29 to 33. In column "Water Right Number", list all water rights proposed for change. Select one of the three historical use analysis options and fill in the required information associated with that option. Select "Full Historical Use Analysis N/A" only if an unperfected Provisional Permit will be used to serve as historical use in lieu of analysis. If the "Existing Historical Use Analysis" or "Full Historical Use Analysis N/A" option is selected, skip to question 57 because this section is complete.	☐ A	☐ F

Water Right No. Proposed for Change	**Historical Use Analysis Options**
76LJ 9218-00	☑ New Historical Use Analysis. Date for which historical use will be analyzed: July 1, 1973
	☐ Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	☐ Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____

	☐ New Historical Use Analysis. Date for which historical use will be analyzed: _____
	☐ Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	☐ Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____
	☐ New Historical Use Analysis. Date for which historical use will be analyzed: _____
	☐ Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	☐ Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____

35. Do you have knowledge of historical use?	☑ Y ☐ N	☐ F
a. If yes,		
i. Is this firsthand knowledge?	☐ Y ☑ N	☐ F
ii. Who has this knowledge and what was their role? _____	☐ A	☐ F
b. If no, where will the historical use data be derived? Historical operations based on typical irrigation practices, DNRC water right file, and DNRC standard historical use calculations. _____	☐ A	☐ F

Fill out the remaining Historical Use questions (questions 37 to 56) ***one time for each*** *water right proposed for change. Use the "Additional Water Right Historical Use (606P)" sheet for each additional water right. You may answer* ***one time for all*** *water rights proposed for change that have the same purposes, place of use, supplemental water rights, points of diversion, period of use, conveyance, diverted volume parameters, and consumptive volume parameters.*

36. What is the water right number for which questions 37 to 56 will be answered? 76LJ 9218-00		☐ F

Historical Use: Place of Use

37. The historical use map submitted for question 8 must clearly identify the entire place of use for each overlapping water right that intersects the historical place of use. Does your historical use map meet this requirement?	☐ Y ☐ N	☑ F
38. Are you proposing to change all water rights associated with the historical place of use?	☑ Y ☐ N	☐ F
a. If no, identify the water rights associated with the historical place of use that are not included in this application. Provide the priority date for each water right and explain why all overlapping water rights are not included in the application. Include water received via contract from a company, district, or water users' association.	☐ A	☐ F

Water Right No.	Priority Date	Reason Not Included in Change

39. Answer the section of this question relevant to the historical purpose. If there is more than one purpose, then answer all relevant parts of this question.		
a. All purposes		
i. Does the legal land description from the abstract encompass the actual location of the historical place of use?	☑ Y ☐ N	☐ F
1. If no, explain the discrepancy and submit historical aerial photographs and/or other data sources to corroborate the location of these historical places of use, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim. _____ _____	☐ S	☐ F
b. Irrigation		
i. Is the water right being changed a Statement of Claim?	☑ Y ☐ N	☐ F
1. If yes, does the Water Resources Survey corroborate the acres irrigated listed on the abstract?	☐ Y ☑ N	☐ F
a. If no, submit evidence that can corroborate the historical place of use, including the number of irrigated acres. This includes, but is not limited to, aerial photographs, irrigation journals, or logs.	☐ S	☑ F
2. If no, submit one or more aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	☐ S	☐ F
c. Lawn and garden		
i. Submit aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	☐ S	☐ F
d. Stock		
i. Submit aerial photographs, grazing records, or other records to corroborate the historical place of use.	☐ S	☐ F
ii. Did the stock drink direct from source or direct from ditch?	☐ Y ☐ N	☐ F
1. If no, submit data sources that make clear the location of the stock watering infrastructure.	☐ S	☐ F
e. Multiple domestic, domestic, municipal, mining, commercial, and other purposes		
i. Submit aerial photographs, deeds, other recorded documents or records, affidavits, or other published documents, such as magazine articles, to corroborate the historical place of use.	☐ S	☐ F

Historical Use: Point of Diversion

Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical flow rate with the Historical Use Addendum (Form 606-HUA) may be eligible to skip question 42; see the Form 606-HUA for more information.

40. For all historical points of diversion, identify the means, location (¼ ¼ ¼ section), and if they are proposed for change. Label using the same POD ID letter as for the Historical Use Map (question 8).	☐ A	☐ F

POD ID	Means	Location (¼ ¼ ¼ Section)	Proposed for Change?
H1	Pump	SW NW SE Section 14	☑ Y ☐ N
			☐ Y ☐ N
			☐ Y ☐ N
			☐ Y ☐ N

41. Do the legal land descriptions from the abstract encompass the actual locations of all historical points of diversion?	☐ Y ☑ N	☐ F
a. If no, explain the discrepancy and submit historical aerial photographs and/or other data sources to corroborate the location of these historical points of diversion, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim. Claimed POD is the NW NW SE. The actual point of diversion is in the SW NW SE.	☐ S	☑ F
42. Answer questions below related to the diversion means for each of the historical points of diversion.		
a. Headgate		
i. For each headgate, provide dimensions in feet (FT), slope of the channel at the headgate (%), material of the headgate, estimated historical capacity in gallons per minute (GPM) or cubic feet per second (CFS) and the method used to estimate historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).	☐ A	☐ F

POD ID	Dimensions	Slope	Material	Estimated Capacity			Method
	FT	*%*		*Cap.*	*GPM*	*CFS*	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	

b. Pump, dike, dam, or other surface water point of diversion		
i. For each pump, dike, dam, or other surface water point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).	☐ A	☑ F

POD ID	Estimated Capacity			Method
	Cap.	*GPM*	*CFS*	
H1	5.57	☐	☑	Pump
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	

c. Well, pit, or other groundwater point of diversion		
i. For each well, pit, or other groundwater point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).	☐ A	☐ F

POD ID	Estimated Capacity			Method
	Cap.	*GPM*	*CFS*	
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	

43. Do other water rights share any of the points of diversion?	☐ Y ☑ N	☐ F
a. If yes, list the water rights, their flow rates (GPM or CFS), and the nature of the relationship. Label using the same POD ID letter as for the Historical Use Map (question 8).	☐ A	☐ F

POD ID	Water Right No.	Flow Rate			Relationship
		Flow	*GPM*	*CFS*	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

Historical Use: Period of Diversion

(Continue to answer questions for water right(s) identified in question 36.)

44. Are the period of diversion and the period of use the same?	☑ Y ☐ N	☐ F
a. If no,		
i. Why are they different? _____ _____	☐ A	☐ F
ii. Is there a place of storage?	☐ Y ☑ N	☐ F
45. When was water diverted for the purposes of the water rights being changed?	☐ A	☐ F

Start Date (Month (MM)/Day (DD))	End Date (MM/DD)
05/01	09/30

46. Does the Department have a standard, found in ARM 36.12.112, for the period of diversion for all purposes for which water is used?	☑ Y ☐ N	☐ F
a. If yes, does the period of diversion for all purposes fall within Department standards?	☑ Y ☐ N	☐ F
b. If no, or if any period of diversion falls outside Department standards, explain how the period of diversion is reasonable for the purpose. _____ _____ _____ _____	☐ A	☐ F

Historical Use: Historical Diverted Volume

Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical diverted volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip question parts of question 47; see the Form 606-HUA for more information.

47. Answer all relevant sections of this question based on whether the historical purpose was irrigation, non-irrigation, or both.		
a. Irrigation		
i. Do you want ARM 36.12.1902(10) to be used to calculate historical diverted volume?	☑ Y ☐ N	☐ F
1. If no, submit a Historical Water Use Addendum (Form 606-HUA). Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	☐ S	☐ F
ii. What were the crop(s) grown? alfalfa, hay, wheat, barley		☐ F
1. For hay, how many cuttings were there per season and how many days did cuttings last? Did irrigation cease throughout the place of use for cuttings? For other crops, explain whether irrigation regularly ceased within the irrigation season. For all crops, explain whether diversions ceased during times irrigation did not occur. typically two (2) cuttings per season _____ _____ _____	☐ A	☐ F

b. Non-irrigation		
i. Explain your historical diversion schedule, with sufficient detail to estimate the volume of water historically diverted. This may include, but is not limited to, days per year water was historically diverted or the number of diversions per year and the duration of each diversion. _____ _____ _____ _____	☐ A	☐ F
ii. Explain water diverted but not consumed by the non-irrigation purpose(s). This includes, but is not limited to, wastewater discharge and conveyance loss. Ditch-Specific Questions (questions 110 to 111) will gather information necessary for estimating losses from conveyance ditches. _____ _____ _____ _____ _____	☐ A	☐ F
iii. Did historical diversions serve more than one non-irrigation purpose?	☐ Y ☐ N	☐ F
1. If yes, how much of the diversions served each non-irrigation purpose and how did you determine this? _____ _____ _____ _____	☐ A	☐ F
48. Did diversions ever regularly cease within the period of use due to insufficient water in source or calls based on priority date?	☐ Y ☑ N	☐ F
a. If yes, please explain. _____ _____ _____	☐ A	☐ F

Historical Use: Historical Consumed Volume

Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical consumptive volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip parts of question 50; see the Form 606-HUA for more information.

49. What are the historical purposes? Mark each purpose and answer the applicable questions below. ☑ Irrigation. Answer question 50. ☐ Lawn and garden. Answer question 51. ☐ Stock. Answer question 52. ☐ Domestic and multiple domestic. Answer question 53. ☐ Municipal. Answer question 54. ☐ Other. Answer question 55.		

50. Irrigation		
a. Will you use Department standards for historical consumptive use as defined in ARM 36.12.1902?	☑ Y ☐ N	☐ F
i. If no,		
1. What method will you use to determine historical consumptive use?	☐ A	☐ F
2. Submit a Historical Water Use Addendum (Form 606-HUA) to the Department. Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	☐ S	☐ F
ii. If yes,		
1. What is the historical irrigation method type and subtype? Irrigation method types include flood and sprinkler. Flood irrigation subtypes include level border, graded border, furrow, contour ditch, or wild flood. Sprinkler subtypes include wheel line and center pivot. Sprinkler (wheel lines and hand lines)	☐ A	☐ F
2. What was the slope (%) of the historical place of use? ~3-percent		☐ F

3. Are there any factors beyond irrigation method type/subtype and place of use slope that may influence percent efficiency of irrigation?	☐ Y ☑ N	☐ F
a. If yes, submit evidence to support the modified percent efficiency of irrigation in the Historical Water Use Addendum (Form 606-HUA). These factors may include infrastructure age, soil characteristics, or field improvements. Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	☐ S	☐ F
4. Based on answers to the above questions, what is the percent efficiency of irrigation? 70-percent		☐ F
5. What is the County Management Factor? 87.6		☐ F
6. What is evapotranspiration (ET) based on the irrigation method and county? 12.5		☐ F
7. What percent of applied water are irrecoverable losses per ARM 36.12.1902(17)? 10-percent		☐ F

51. Lawn and garden		
a. Will you use a Department standard for historical consumptive use volume for lawn and garden? Department standards include 2.5 acre-feet per acre, or a calculated volume based on Irrigation Water Requirements for turf grass.	☐ Y ☐ N	☐ F
i. If yes, which standard? _____		☐ F
ii. If no, please provide an estimate of historical water use based on expert analysis and methods used to determine this estimate. _____ _____	☐ A	☐ F

52. Stock		
a. Which volume standard for animal units applies to historical use and why? The standards are either 15 gallons per animal unit per day for new appropriations or 30 gallons per animal unit per day for claims. _____	☐ A	☐ F
b. How many animal units were historically served? _____		☐ F
c. Did these animal units rely entirely on the water right(s) proposed for change for their full water demand?	☐ Y ☐ N	☐ F
i. If no, explain. _____ _____	☐ A	☐ F

53. Domestic and multiple domestic		
a. How many households were served? _____		☐ F
b. Will the Department standard of 1 acre-foot per household be used? The same standard shall be applied to historical and proposed uses.	☐ Y ☐ N	☐ F
i. If no, what standard will be used? _____		☐ F
c. Did the historical use include wastewater disposal and treatment?	☐ Y ☐ N	☐ F
i. If yes, which of the following best describes the wastewater disposal and treatment system? Individual drain fields, central treatment facility with minimal consumption, or evaporation basin or land application? _____	☐ A	☐ F

54. Municipal		
a. What is the volume of water (AF) historically consumed for municipal purposes? _____		☐ F
b. Submit evidence to support historical municipal use. The data sources may include records that tie water use to the U.S Census, estimates of historical system capacity and estimates of leakage.	☐ S	☐ F

55. Other		
a. Specify the other purposes. _____		☐ F
b. What is the volume of water (AF) historically consumed for other purposes? _____		☐ F
c. Submit evidence to support the volume of water historically consumed.	☐ S	☐ F

Historical Use: Historical Places of Storage

(Continue to answer questions for water right(s) identified in question 36.)

56. Did the historical use include one or more places of storage? This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).	☐ Y ☑ N	☐ F
a. If yes, for each historical place of storage please provide the surface area in acres (AC), capacity (AF), annual net evaporation (FT/YR), and number of times per year the place of storage was filled.	☐ A	☐ F

ID	Surface Area (AC)	Capacity (AF)	Annual Net Evaporation (FT/YR)	# of Annual Fillings

Surface Water

☑ **Applicable**, move on to question 57. ☐ **Not Applicable**, skip to question 66.

The following questions are mandatory for changes to surface water rights and must be filled out before the Preapplication Meeting Form is determined to be complete.

Return Flow Analysis

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
57. Do the purposes of the water rights proposed for change include irrigation?	☑ Y ☐ N	☐ F
a. If yes, does the proposed change include a change in place of use *and/or* a change in purpose? If you propose to retire acres in the historical place of use and/or add new acres outside the historical place of use, this constitutes a change in place of use.	☑ Y ☐ N	☐ F
i. If yes, a return flow analysis is required. Move on to answer question 58.		
ii. If no, this section is complete, and you may skip to question 94.		
58. Does the proposed change include a change in purpose?	☑ Y ☐ N	☐ F
a. If yes, consumptive use information is collected in the Change in Purpose section (questions 101 to 108), skip to question 59.		
b. If no, go to question 59.		
59. Does the proposed change include a change in place of use? If yes, move on to question 60. If no, skip to question 63.	☑ Y ☐ N	☐ F

60. Submit a map showing the new, unchanged historical, and retired historical places of use. Create map on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, and north arrow. If you have shapefiles associated with this map, in addition to submitting an image of the map, please submit electronic copies of the shapefiles to the Department.	☐ S	☑ F
61. How many acres, if any, will be retired from the historical place of use? _____		☑ F
62. Are irrigated acres proposed that are outside the historical place of use?	☐ Y ☐ N	☑ F
a. If yes,		
i. How many acres? _____		☑ F
ii. What is the proposed irrigation method type (e.g., flood or sprinkler) and subtype (e.g., level border, graded border, furrow, contour ditch, wild flood, center pivot, or wheel line) for the new acres? _____		☑ F
iii. What is the slope (%) of the new place of use? _____		☑ F
iv. Based on 62.a.ii to 62.a.iii, what is the percent efficiency of irrigation for the new acres? _____		☑ F
v. What is the County Management Factor for the new acres? _____		☑ F
vi. What is the ET based on the irrigation method and county for the new acres? _____		☑ F
vii. What percent of applied water are irrecoverable losses for new acres? _____		☑ F
63. Do you have information for the Department to consider about the source and location where return flows historically accrued?	☐ Y ☑ N	☐ F
a. If yes, submit this information to the Department.	☐ S	☐ F

Extended Return Flow Analysis

64. Based on the preliminary data provided by the Department at this preapplication meeting, to what surface water sources do return flows accrue before and after the proposed change? **Return flow data provided by the Department at the preapplication meeting is preliminary and is subject to change during technical analyses. If the source or location of return flow data changes during technical analyses, then the analysis of impacts to identified surface water rights will reflect the technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* Stillwater River	☐ A	☐ F
65. If an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 149 to 154 to provide information required for this extended analysis?	☐ Y ☑ N	☐ F
a. If yes, go to question 149. This information will be used if an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	☑ Y ☐ N	☐ F
i. If yes, do you elect for the Department to use publicly available water quantity data for the extended return flow analysis? If the extended return flow analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended analysis. You will still have to prove a lack of adverse effect from the proposed change.	☑ Y ☐ N	☐ F
ii. If no, you may still include the extended return flow analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.		

GROUNDWATER

☐ **Applicable**, move on to question 66. ☑ **Not Applicable**, skip to question 94.

The following questions are mandatory for changes to groundwater rights and must be filled out before the Preapplication Meeting Form is determined to be complete.

Groundwater Analysis for Changes

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
66. Does the proposed change include a change in point of diversion?	☐ Y ☐ N	☐ F
a. If no, this section is complete; skip to question 77.		
b. If yes, a groundwater analysis for changes is required; answer questions specific to the groundwater diversion type.		
i. What is the groundwater diversion type? _____		☐ F

Well/Pumping Pit	Answer questions 67 to 72	**Developed Spring**	Answer question 73	**Pond**	Answer questions 74 to 76

Groundwater Analysis: Well/Pumping Pit

☐ Applicable ☐ Not Applicable

67. Per ARM 36.12.121 a 24- or 72-hour aquifer test is required; do you propose not to conduct the test? An 8-hour test will be required, if no aquifer test is completed.	☐ Y ☐ N	☐ F
a. If yes, explain. The Department will let you know if the request is reasonable and identify additional data needs. _____ _____ _____ _____ _____	☐ A	☐ F

68. Submit Aquifer Test Data Form (Form 633) for each *new* well/pumping pit that will be constructed prior to technical analyses or *existing* well/pumping pit that is added by the change. If an aquifer test was already conducted for an *existing* well/pumping pit, and you would like to use that instead of conducting a new aquifer test, describe this in question 67.a. If a variance is requested, Form 633 must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 633 is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
69. Submit the Aquifer Testing Addendum (Form 600/606-ATA) and associated materials (e.g., well logs). If you request a variance, Form 600/606-ATA must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 600/606-ATA is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
70. Are you requesting a variance from ARM 36.12.121? If you are unsure if a variance request will be needed, mark follow-up and answer this question once Form 600/606-ATA and Form 633 are complete. A variance must be requested by the Variance Request Deadline.	☐ Y ☐ N	☐ F
a. If yes, submit Form 653, Form 600/606-ATA, and Form 633 together on or before the Variance Request Deadline.	☐ S	☐ F
b. If no, you may choose to submit Form 600/606-ATA and Form 633 before the Variance Request Deadline, and the Department will review these two forms. If the Department determines a variance is needed after the Variance Request Deadline, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).		
71. Have all the wells/pumping pits been constructed?	☐ Y ☐ N	☐ F
a. If no,		
i. Submit a list of the POD IDs for all wells/pumping pits and mark whether they have or have not been constructed.	☐ S	☐ F
ii. When will the proposed wells/pumping pits be constructed? _____		☐ F

iii. Is the requested volume for each proposed well/pumping pit known?	☐ Y ☐ N	☐ F
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with POD ID. _____ _____	☐ A	☐ F
2. If no, what is the total requested volume (AF) and the number of proposed PODs? _____		☐ F
72. What is the flow rate (GPM or CFS), volume (AF), and period of diversion (MM/DD-MM/DD) required at each new well/pumping pit ("*new*") or existing well/pumping pit that is added by the change ("*existing*")? If the well/pumping pit is not yet constructed, use the estimated volume based on question 71.a.iii.2. What is the well/pumping pit depth (FT), if available, or estimated well/pumping pit depth (FT)? Label using the same POD ID number as the Proposed Use Map (question 9) and, if available, GWIC ID. List whether the POD is *new* or an *existing* well added by the change.	☐ A	☐ F

POD ID	**GWIC ID**	**Flow Rate**			**Volume**	**Period of Diversion**	**Depth**	**Measured or Estimated**	**New or Existing**
	(if available)	*Flow*	*GPM*	*CFS*	*AF*	*MM/DD-MM/DD*	*FT*		
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					

Groundwater Analysis: Developed Spring

☐ Applicable ☐ Not Applicable

73. Have you measured each *new* developed spring or *existing* developed spring that will be added by the change?	☐ Y ☐ N	☐ F
a. If yes, submit the measurements to the Department and answer the following questions:	☐ S	☐ F
i. Do you have flow rate (GPM or CFS) and volume measurements?	☐ Y ☐ N	☐ F
ii. With what method were measurements collected? _____ _____	☐ A	☐ F

iii. What is the interval of measurements? _____		☐ F
iv. Is the interval of measurements sufficient to comply with the Department standard of monthly flow measurements taken at regular intervals or at department-approved intervals during the proposed period of diversion?	☐ Y ☐ N	☐ F
b. If no, or if measurements do not comply with the Department standard, answer the following questions. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the Department standard.		
i. When do you plan to measure? _____	☐ A	☐ F
ii. With what method and at what interval will measurements be collected? _____ _____	☐ A	☐ F

Groundwater Analysis: Pond

☐ Applicable ☐ Not Applicable

74. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	☐ S	☐ F
75. Submit bathymetry data, survey, or engineering plans for each *new* pond added or *existing* pond added or modified by the proposed change. Label using the same POD ID number as the Proposed Use Map (question 9). List whether the pond is *new* or an *existing* pond.	☐ S	☐ F
76. Are any of the *new* ponds, or *existing* ponds added or modified by the proposed change the pond, fed or drained by surface water in addition to groundwater?	☐ Y ☐ N	☐ F
a. If yes,		
i. Explain. _____ _____ _____	☐ A	☐ F
ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F

Surface Water Depletion Analysis for Changes

77. Does the proposed change include any of the following scenarios that necessitate a surface water depletion analysis pursuant to ARM 36.12.1303(5)(c)? • Change in point of diversion • Change in place of use, purpose of use, or place of storage that result in a change in consumptive use or pumping schedule.	☐ Y ☐ N	☐ F
a. If no, this section is complete; skip to question 85.		
b. If yes, a surface water depletion analysis is required; answer questions specific to the groundwater diversion type.		
i. What is the groundwater diversion type? _____		☐ F

Well/Pumping Pit	Answer questions 78 to 79	**Developed Spring**	Answer question 80	**Pond**	Answer questions 81 to 82

Surface Water Depletion Analysis: Well/Pumping Pit

☐ Applicable ☐ Not Applicable

78. Provide the following information for each well/pumping pit on the current version of the water rights proposed for change that will either remain on the water rights after the change ("*unchanged*") or will be retired ("*retired*"): flow rate (GPM or CFS), volume (AF), period of diversion required (MM/DD-MM/DD), well/pumping pit depth (FT) (if available, otherwise or estimated well/pumping pit depth (FT)), and whether it is *unchanged* or *retired*. Please use the same POD ID as the Historical Use Map (question 8) and, if available, provide the GWIC ID number.	☐ A	☐ F

POD ID	**GWIC ID** *(if available)*	**Flow Rate** *Flow Rate*	*GPM*	*CFS*	**Volume** *AF*	**Period of Diversion** *MM/DD-MM/DD*	**Depth** *FT*	**Measured or Estimated**	**Unchanged or Retired**
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					

79. Provide the pumping schedule for each well/pumping pit (*new*, *existing*, *unchanged*, or *retired*) for both *before* and *after* the proposed change. Use the same POD ID as the project maps. For *new* and *existing* wells/pumping pits, use the Proposed Use Map (question 9). For *unchanged* and *retired* wells/pumping pits use the Historical Use Map (question 8). Attach any additional pumping schedules using *"Additional Pumping Schedule (606P)" sheet*. For *retired* wells/pumping pits, mark "N/A" checkbox for after the change and for *new* wells/pumping pits, mark "N/A" checkbox for before the change. Mark the checkbox "Diverted volume/# of Days" if it is a year-round use and the pump schedule is an allocation of diverted volume by the number of days in the month. Mark the checkbox "80% dry year IWR" if it is an irrigation/lawn and garden use and the pump schedule is the 80% dry year net irrigation requirement (IWR, NRCS 2003).	☐ A	☐ F

(Before) POD ID				**(After) POD ID**			
☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A				☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A			
Month	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Voume (AF)**	**Month**	**Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

Surface Water Depletion Analysis: Developed Spring

☐ Applicable ☐ Not Applicable

80. Is the type of groundwater diversion for your proposed project a developed spring? If yes, skip to question 85 because no surface water depletion analysis will be necessary.	☐ Y ☐ N	☐ F

Surface Water Depletion Analysis: Pond

☐ Applicable ☐ Not Applicable

81. Are there any ponds on the current version of the water rights proposed for change that will remain on the water rights unchanged ("*unchanged*") or will be retired ("*retired*")? If yes,	☐ Y ☐ N	☐ F
a. Did you skip questions 74 to 76 because there is no change in POD? If yes,	☐ Y ☐ N	☐ F
i. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	☐ S	☐ F
b. Submit bathymetry data, survey, or engineering plans for each *unchanged* pond or *retired* pond. Label the submittal with the POD ID and whether the pond is *unchanged* or *retired*.	☐ S	☐ F
c. Are any of the *unchanged* or *retired* ponds fed or drained by surface water, in addition to groundwater?	☐ Y ☐ N	☐ F
i. If yes,		
1. Explain. _____ _____ _____	☐ A	☐ F
2. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F

82. Provide the schedule of diversions for out-of-pond use for each pond (*new*, *existing*, *unchanged*, or *retired*) for both *before* and *after* the proposed change. Use the same POD ID as the project maps. For *new* and *existing* ponds, use the Proposed Use Map (question 9). For *unchanged* and *retired* ponds use the Historical Use Map (question 8). Attach any additional diversion schedules using the same format as the table below. For *retired* ponds, mark "N/A" checkbox for after the change and for *new* ponds, mark "N/A" checkbox for before the change. Mark the checkbox "Diverted volume/# of Days" if it is a year-round use and the diversion schedule is an allocation of diverted volume by the number of days in the month. Mark the checkbox "80% dry year IWR" if it is an irrigation or lawn and garden use and the diversion schedule is the 80% dry year net irrigation requirement (IWR, NRCS 2003).	☐ A	☐ F

(Before) POD ID				**(After) POD ID**			
☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A				☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A			
Month	**Diversions for Out-of-Pond Use Volume (AF)**	**Month**	**Diversions for Out-of-Pond Use Volume (AF)**	**Month**	**Diversions for Out-of-Pond Use Volume (AF)**	**Month**	**Diversions for Out-of-Pond Use Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

Extended Surface Water Depletion Analysis

83. Based on the preliminary net depletion data provided by the Department at this preapplication meeting, what are the hydraulically connected surface water sources before and after the proposed change? **Net depletion data provided by the Department at the preapplication meeting are preliminary and are subject to change during the technical analyses. If the source or location of net depletion data changes during the technical analyses, then the extended surface water depletion analysis will reflect the technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* _____ _____ _____	☐ A	☐ F

84. If an extended surface water depletion analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 157 to 161 to provide information required for this extended surface water depletion analysis?	☐ Y ☐ N	☐ F
a. If yes, go to question 156. This information will be used if an extended surface water depletion analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	☐ Y ☐ N	☐ F
i. If yes, do you elect for the Department to use publicly available water quantity data for the extended surface water depletion analysis? If this extended surface water depletion analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended surface water depletion analysis. You will still need to prove a lack of adverse effect from the proposed change.	☐ Y ☐ N	☐ F
ii. If no, you may still include the extended surface water depletion analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.		

Return Flow Analysis

85. Do the purposes of the water rights proposed for change include irrigation?	☐ Y ☐ N	☐ F
a. If yes, does the proposed change include a change in place of use *and/or* a change in purpose? If you propose to retire acres in the historical place of use and/or add new acres outside the historical place of use, this constitutes a change in place of use.	☐ Y ☐ N	☐ F
i. If yes, a return flow analysis is required. Move on to answer question 86.		
ii. If no, this section is complete, and you may skip to question 94.		
86. Does the proposed change include a change in purpose?	☐ Y ☐ N	☐ F
a. If yes, consumptive use information is collected in the Change in Purpose section (questions 101 to 108), skip to question 87.		
b. If no, skip to question 87.		
87. Does the proposed change include a change in place of use? If yes, move on to question 88. If no, skip to question 91.	☐ Y ☐ N	☐ F

88. Submit a map showing the new, unchanged historical, and retired historical places of use. Create map on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, and north arrow. If you have shapefiles associated with this map, in addition to submitting an image of the map, please submit electronic copies of the shapefiles to the Department.	☐ S	☐ F
89. How many acres, if any, will be retired from the historical place of use? _____		☐ F
90. Are irrigated acres proposed that are outside the historical place of use?	☐ Y ☐ N	☐ F
a. If yes,		
i. How many acres? _____		☐ F
ii. What is the proposed irrigation method type (e.g., flood or sprinkler) and subtype (e.g., level border, graded border, furrow, contour ditch, wild flood, center pivot, or wheel line) for the new acres? _____	☐ A	☐ F
iii. What is the slope (%) of the new place of use? _____		☐ F
iv. Based on question 90.a.ii to 90.a.iii, what is the percent efficiency of irrigation for the new acres? _____		☐ F
v. What is the County Management Factor for the new acres? _____		☐ F
vi. What is the ET based on the irrigation method and county for the new acres? _____		☐ F
vii. What percent of applied water are irrecoverable losses for new acres? _____		☐ F
91. Do you have information for the Department to consider about the source and location where return flows historically accrued?	☐ Y ☐ N	☐ F
a. If yes, submit this information to the Department.	☐ S	☐ F

Extended Return Flow Analysis

92. Based on the preliminary data provided by the Department at this preapplication meeting, to what surface water sources do return flows accrue before and after the proposed change? **Return flow data provided by the Department at the preapplication meeting are preliminary and are subject to change during technical analyses. If the source or location of return flow data changes during technical analyses, then the analysis of impacts to identified surface water rights will reflect the technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* _____ _____	☐ A	☐ F
93. If an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 149 to 155 to provide information required for this extended analysis?	☐ Y ☐ N	☐ F
a. If yes, go to question 149. This information will be used if an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	☐ Y ☐ N	☐ F
i. If yes, do you elect for the Department to use publicly available water quantity data for the extended return flow analysis? If the extended return flow analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended analysis. You will still have to prove a lack of adverse effect from the proposed change.	☐ Y ☐ N	☐ F
ii. If no, you may still include the extended return flow analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.		

Mandatory Project-Specific Questions

The following questions are mandatory when applicable and must be filled out before the Preapplication Meeting Form is determined to be complete.

Temporary Change

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
94. Does the proposal include a temporary change? *This includes proposing to add a place of use on State of Montana Trust Land, with all points of diversion on private land, because the change authorization will be temporary for the duration of the lease term.* If yes, answer the questions in this section (questions 95 to 100). If no, this section is complete; skip to question 100.	☐ Y ☑ N	☐ F
95. What elements of the water rights are being temporarily changed? _____		☐ F
96. For what purpose will the water rights be temporarily used? _____		☐ F
97. For how many years will the water rights be temporarily changed? _____		☐ F
98. Will the temporary change be intermittent over the years?	☐ Y ☐ N	☐ F
a. If yes, explain. _____	☐ A	☐ F
99. Is the quantity of water subject to the temporary change being made available from the development of a new water conservation or storage project?	☐ Y ☐ N	☐ F
a. If yes, explain the water conservation or storage project. _____ _____ _____	☐ A	☐ F
100. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 17 if you are proposing to add a place of use on State of Montana Trust Land and question 20.a.ii if you are proposing a temporary change that does not involve State of Montana Trust Land. If you are answering in consecutive order, go to question 101.		

Change in Purpose

101. Does the project involve a change in purpose? If yes, answer the questions in this section (questions 102 to 108). If no, this section is complete; skip to question 108.	☑ Y ☐ N	☐ F
102. Identify the new and unchanged purposes, flow rate (GPM or CFS), volume (AF), period of diversion, and period of use (MM/DD-MM/DD) for each purpose.	☐ A	☑ F

Purpose	**New or Unchanged?**	**Period of Diversion** *(MM/DD-MM/DD)*	**Period of Use** *(MM/DD-MM/DD)*	**Flow Rate** *Flow Rate*	*GPM*	*CFS*	**Volume** *(AF)*
Irrigation		05/01-09/30	05/01-10/10	3.73	☐	☐	177.50
Commercial	New	05/01-09/30	05/01-10/10	3.73	☐	☐	?
Mitigation	New	05/01-09/30	08/01-10/19	3.73	☐	☑	3.91
					☐	☐	
					☐	☐	
			Total	3.73	☐	☐	181.41+?

103. Answer the questions specific to each new and unchanged purpose identified in question 102.							
Lawn and garden	Question 104	**Stock**	Question 105	**Domestic and multiple domestic**	Question 106	**Other purpose**	Question 107

104. Lawn and garden		
a. Will consumptive use be based on the standard of 2.5 acre-feet per acre or a calculated volume based on Irrigation Water Requirements for turf grass?	☐ Y ☐ N	☐ F
i. If yes, which standard? _____		☐ F
ii. If no, describe how consumptive use will be estimated. This must be based on expert analysis. _____ _____	☐ A	☐ F
105. Stock		
a. How many animal units will be served? _____		☐ F

106. Domestic and multiple domestic		
a. Households & bedrooms per household served? _____		☐ F
b. Will the Department volume standard be used to determine consumptive use?	☐ Y ☐ N	☐ F
i. If no, what volume standard will be used? _____	☐ A	☐ F
c. Will the proposed use include wastewater disposal and treatment?	☐ Y ☐ N	☐ F
i. If yes, which of the following best describes the wastewater disposal and treatment system? Individual drain fields, central treatment facility with minimal consumption, or evaporation basin or land application? _____		☐ F
107. Other purpose		
a. What is the other purpose (e.g., municipal, commercial)? mitigation and commercial		☐ F
b. What is the percentage of consumption for the proposed use? Please explain. 0-percent, water will be discharged to Stillwater River to offset impacts of proposed water right.	☐ A	☑ F
108. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 14 and if you are answering in consecutive order, go to question 109.		

Ditch-Specific Questions

Applications corroborating historical diverted volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip one or more questions in this section; see the Form 606-HUA for more information.

109. Does the historical use of water include at least one conveyance ditch? If yes, answer questions 110 to 111. If no, skip to question 112.	☐ Y ☑ N	☐ F
110. Submit a Historical Use Ditch Map that shows every ditch conveying water for the historical use of all water rights proposed for change. Label the ditch names, PODs, the POUs, and the ditch measurement locations (requested in question 111.d). The map should be created on a historical image or topographic map with the following: section corners, township and range, scale bar, and north arrow.	☐ S	☐ F

111. Answer question 111.a to 111.h one time for each historical conveyance ditch. If there is more than one historical conveyance ditch, use an "Additional Historical Ditch (606P)" sheet for each additional ditch.		
a. What is the ditch name? _____		☐ F
b. List the water rights proposed for change that were conveyed by the ditch. _____ _____		☐ F
c. What is the distance water was historically carried by the conveyance ditch? Only include segments between the POD and start of the POU; do not include segments within the POU. _____	☐ A	☐ F
d. Provide at least one set of ditch measurements, which include width (FT), depth (FT), and slope (%). Discuss ditch characteristics with DNRC to determine the minimum number of ditch measurements. Include the location of each measurement, labeled with the 2-digit measurement ID number, used on the map submitted for question 110.	☐ S	☐ F

ID #	Width (FT)	Depth (FT)	Slope (%)	Date of Measurement

e. What is a reasonable Manning's n value? List the factors used for estimation. If you do not know this value, please work through estimation with the Department. _____ _____	☐ A	☐ F
f. What type of soils compose the historical conveyance ditch? For lined ditches, write "lined" instead. _____ _____	☐ A	☐ F

g. Are other water rights conveyed by the historical conveyance ditch?	☐ Y ☐ N	☐ F
i. If yes,		
1. List the water right numbers and their flow rates. _____ _____ _____	☐ A	☐ F
2. What is the sum of the flow rates, including the water rights proposed for change? _____	☐ A	☐ F
3. Submit a map with your best estimate of the historical POUs for the other water rights conveyed by the historical conveyance ditch. Include only POUs between the historical POD and your historical POU. If you do not know this information, the Department can help you create the map. The map should be created on an aerial photograph or topographic map and show the following: section corners, township and range, scale bar, and north arrow.	☐ S	☐ F
h. Were any water rights proposed for change part of one historical water right that was split?	☐ Y ☐ N	☐ F
i. If yes, were all split water rights split in such a way to ensure each post-split water right could stand alone and not be reliant on the others for carriage water?	☐ Y ☐ N	☐ F
1. If no, do any of the water rights proposed for change have a carriage water requirement?	☐ Y ☐ N	☐ F
a. If yes,		
i. List the water rights with a carriage water requirement _____		☐ F
ii. Update your Historical Use Ditch Map (question 110) to label the ditch segments where a carriage water requirement exists for a water right proposed for change. Also, use your best estimate to label the POUs for all water rights included in the carriage water requirement. If you do not know this information, the Department can help you update the map.	☐ S	☐ F
112. Does the proposed use include at least one existing or new conveyance ditch? If yes, answer questions 113 to 114. If no, or if you answered these questions earlier in the preapplication meeting, this section is complete; skip to question 115.	☐ Y ☐ N	☐ F

113. Submit a Proposed Use Ditch Map that shows every ditch conveying the water rights proposed for change, including any unchanged portions. Label all unchanged and proposed PODs, all unchanged and proposed POUs, and additional ditch measurement locations (requested in question 114.e). The map should be created on an aerial photograph or topographic map with the following: section corners, township and range, scale bar, and north arrow.	☐ S	☐ F
114. Answer the questions 114.a to 114.i one time for each proposed use conveyance ditch. Use an "Additional Proposed Use Ditch (606P)" sheet for each additional ditch.		
a. What is the ditch name? _____		☐ F
b. Is this ditch a historical conveyance ditch detailed in questions 110 to 111?	☐ Y ☐ N	☐ F
i. If yes, have any of the following details changed, to the best of your knowledge, from historical conditions: ditch length, distance water conveyed, ditch lining, or water rights conveyed by the ditch?	☐ Y ☐ N	☐ F
1. If yes, answer questions 114.c to 114.i using current data.		
2. If no, do not answer questions 114.c to 114.i for this ditch because the information remains unchanged. Move on to the next proposed use conveyance ditch, or if none remain, skip to question 115.		
c. List the water rights proposed for change that are going to be conveyed by the ditch. _____		☐ F
d. What is the distance water will be carried by the conveyance ditch? Only include segments between the POD and start of the POU; do not include segments within the POU. _____ _____	☐ A	☐ F
e. Provide at least one set of ditch measurements, which include width (FT), depth (FT), and slope (%). Discuss ditch characteristics with DNRC to determine the minimum number of ditch measurements. Include the location of each measurement, labeled with the 2-digit measurement ID number, used on the map submitted for question 113.	☐ S	☐ F

ID #	Width (FT)	Depth (FT)	Slope (%)	Date of Measurement

f. What is a reasonable Manning's n value? List the factors used for estimation. If you do not know this value, please work through estimation with the Department. _____ _____	☐ A	☐ F
g. What type of soils compose the proposed conveyance ditch? For lined ditches, write "lined" instead. _____ _____	☐ A	☐ F
h. Are other water rights conveyed by the proposed conveyance ditch?	☐ Y ☐ N	☐ F
i. If yes,		
1. List the water right numbers and their flow rates. _____ _____ _____	☐ A	☐ F
2. What is the sum of the flow rates, including the water rights proposed for change? _____	☐ A	☐ F
3. Submit a map with your best estimate of the location of current POUs for the other water rights conveyed by the proposed conveyance ditch. Include only POUs between the POD and your proposed POU. If you do not know this information, the Department can help you create the map. The map should be created on an aerial photograph or topographic map and show the following: section corners, township and range, scale bar, and north arrow.	☐ S	☐ F
i. Were any water right(s) proposed for change identified as having a carriage water requirement in question 111.h.i.1.a.i?	☐ Y ☐ N	☐ F
i. If yes, update your Proposed Use Ditch Map (question 113) to label the ditch segments where a carriage water requirement exists for a water right proposed for change. Also, use your best estimate to label the POUs for all water rights included in the carriage water requirement. If you do not know this information, the Department can help you update the map.	☐ S	☐ F
115. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 15 and if you are answering in consecutive order, go to question 116.		

Change in Place of Storage

116. Does the project involve a change in place of storage? If yes, answer the questions in this section (questions 117 to 122) for each individual place of storage. Use an "Additional Place of Storage (606P)" sheet for additional places of storage. If no, this section is complete; skip to question 123.	☑ Y ☐ N	☐ F
117. Is this application to add a new place of storage or change an existing place of storage? new place of storage		☐ F
a. If application is to change an existing place of storage, list the water rights that include the place of storage and a short description of the proposed change.	☐ A	☐ F
118. Is the place of storage located on-stream?	☐ Y ☑ N	☐ F
a. If no, describe any losses related to conveyance that are not detailed in "Ditch-Specific Questions." Water will be pumped to the pond and conveyed through a pipeline. No losses are anticipated.	☐ A	
119. What is the proposed capacity of the place of storage? Use bathymetry data, survey, or engineering plans for capacity. Submit the data source used with this form. In lieu of these data sources, use the following equation: *Surface Acres x Maximum Depth (ft) x 0.5 = Capacity (AF)* 2.0 acres x 20 feet x 0.5 = 20.0 AF	☐ S	☐ F
120. What is the proposed surface area of the place of storage? 2.0 acres	☐ A	☐ F
121. What is the annual net evaporation of water from the place of storage based on the Department's gridded net evaporation layer? If you propose a different method, attach an explanation and justification of the method. 1.68 acre-feet per acre	☐ A	☐ F
122. Will the place of storage be lined?	☑ Y ☐ N	☐ F
123. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 16 and if you are answering in consecutive order, go to question 109.		

Mitigation, Aquifer Recharge, and Marketing for Mitigation/Aquifer Recharge

124. Does your application include one of the following purposes? If no, this section is complete; skip to question 129.	☑ Y ☐ N	☐ F
a. Mitigation water. If yes, answer question 125 and 126.	☑ Y ☐ N	☐ F
b. Aquifer recharge water. If yes, answer question 125 and 127.	☐ Y ☐ N	☐ F
c. Marketing for mitigation/aquifer recharge. If yes, answer question 128.	☐ Y ☐ N	☐ F
125. Mitigation Water and Aquifer Recharge Water		
a. Identify the water right(s) for which the mitigation/aquifer recharge water will be used. _____	☐ A	☑ F
b. Identify the application or preapplication number where these water rights were identified as needing mitigation or aquifer recharge to meet the adverse effect criterion. _____	☐ A	☑ F
c. What is the timing, flow rate, and volume of net depletions identified as needing mitigation or aquifer recharge to meet the adverse effect criterion?	☐ A	☑ F

Month	**Days**	**Flow Rate**			**Volume**	**Month**	**Days**	**Flow Rate**			**Volume**
		Flow	*GPM*	*CFS*	*AF*			*Flow*	*GPM*	*CFS*	*AF*
January			☐	☐		July			☐	☐	
February			☐	☐		August	31	11.2	☑	☐	1.53
March			☐	☐		September	30	11.2	☑	☐	1.48
April			☐	☐		October	18	11.2	☑	☐	0.89
May			☐	☐		November			☐	☐	
June			☐	☐		December			☐	☐	

d. Will other water contribute to the need for mitigation or aquifer recharge water? This may include water rights with a mitigation or aquifer recharge purpose, marketing for mitigation contracts, or mitigation water secured via other types of contracts.	☐ Y ☑ N	☐ F
i. If yes, describe the origin of this water and in the table below, list how much it will contribute. _____	☐ A	☐ F

Month	**Days**	**Flow Rate**			**Volume**	**Month**	**Days**	**Flow Rate**			**Volume**
		Flow	*GPM*	*CFS*	*AF*			*Flow*	*GPM*	*CFS*	*AF*
January			☐	☐		July			☐	☐	
February			☐	☐		August			☐	☐	
March			☐	☐		September			☐	☐	
April			☐	☐		October			☐	☐	
May			☐	☐		November			☐	☐	
June			☐	☐		December			☐	☐	

126. Mitigation Water		
a. What is legal land description (¼ ¼ ¼ section of start and end) and length (ft) of the mitigation reach? SW SW SW Section 11 - _____	☐ A	☑ F
b. By what means will mitigation water be made available? You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). Water will be discharged from storage to Stillwater River to offset depletions. _____ _____ _____	☐ A	☐ F
127. Aquifer Recharge Water		
a. What is the legal land description (¼ ¼ ¼ section) of the start of net depletions for which the aquifer recharge water will be used? _____	☐ A	☐ F

	b. What is the volume of net depletions that will be offset by the aquifer recharge water? *The volume of aquifer recharge water injected may not equal the volume of net depletions.* _____	☐ A	☐ F
	c. Describe the method of aquifer recharge. Include, if available, a preliminary design. You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). _____ _____ _____ _____	☐ A	☐ F
	d. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. _____ _____	☐ A	☐ F
	e. What is the proposed area or location of aquifer recharge? *The location is subject to refinement during technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* _____ _____ _____	☐ A	☐ F
128.	Marketing for Mitigation/Aquifer Recharge		
	a. What is the proposed location of the reach where water is to be marketed (¼ ¼ ¼ section of the start and the end of the reach)? _____	☐ A	☐ F
	b. Is this marketing for mitigation	☐ Y ☐ N	☐ F
	i. If yes, by what means will water be made available? _____ _____ _____ _____	☐ A	☐ F

c. Is this marketing for aquifer recharge?	☐ Y ☐ N	☐ F
i. If yes,		
1. Describe the method of aquifer recharge. Include, if available, a preliminary design. You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). _____ _____ _____ _____	☐ A	☐ F
2. What is the volume of water that will be used for aquifer recharge? _____	☐ A	☐ F
3. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. _____ _____	☐ A	☐ F
4. What is the proposed area or location of aquifer recharge? *The location is subject to refinement during technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* _____ _____ _____	☐ A	☐ F
d. Describe your ability to measure and operate all existing diversions to adjust flow rate as water is sold or leased. _____ _____ _____ _____	☐ A	☐ F

e. How will you cease diversions for the existing beneficial use as water is sold or leased? _____ _____ _____	☐ A	☐ F
129. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 25 and if you are answering in consecutive order, go to question 130.		

Instream Flow

130. Does the project involve an instream flow change? If yes, answer the questions in this section (questions 131 to 136). If no, this section is complete; skip to question 136.	☐ Y ☑ N	☐ F
131. What is the source name where streamflow will be maintained or enhanced? _____		☐ F
132. What is the location (¼ ¼ ¼ section of start and end of reach) and length (FT) of the protected reach? _____	☐ A	☐ F
133. Describe the way the streamflow is to be maintained or enhanced. _____ _____	☐ A	☐ F
134. Do you propose to retire all water use associated with the historical purposes throughout the entire period of use? This includes conveyance loss associated with historical ditches.	☐ Y ☐ N	☐ F
a. If no, describe the proposed change to existing purposes, including flow rate, volume, and, if applicable, acres. _____ _____ _____ _____	☐ A	☐ F
135. Do historical and proposed return flows accrete to the source of supply? The Department provides an initial estimate of the source(s) that historical and proposed returns flows accrete to at the preapplication meeting.	☐ Y ☐ N	☐ F

136. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 27 and if you are answering in consecutive order, go to question 137.		

Salvage Water

137. Does this project involve salvage water? Salvage water does not include destroying phreatophytes, removing vegetation, converting to a less consumptive crop, or converting to a partial irrigation schedule. If yes, answer the questions in this section (questions 138 to 141). If no, this section is complete; skip to question 141.	☐ Y ☑ N	☐ F
138. What water saving method was implemented? This may include lining an unlined ditch or canal, converting unlined ditch or canal to pipeline, converting high profile or high-pressure sprinklers to low pressure, and others. _____ _____	☐ A	☐ F
139. How much water was salvaged from implementation of the water saving method? Include flow rate (GPM or CFS) and volume (AF). _____		☐ F
140. How did you determine the amount of water salvaged? _____ _____ _____ _____	☐ A	☐ F
141. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 28 and if you are answering in consecutive order, go to question 142.		

Non-Mandatory Questions for Criteria Analysis

The following questions are not mandatory. They should be discussed in the Preapplication Meeting, but do not need to be filled out before the Preapplication Meeting Form is determined to be complete.

Adverse Effect

Questions, Narrative Responses, and Tables	Check-boxes
142. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. _____ _____ _____ _____	☐ A
143. Explain how you can control your diversion in response to call being made. _____ _____ _____	☐ A
144. Are you aware of any calls that have been made on any source of supply or depleted surface water source?	☐ Y ☐ N
a. If yes, explain. _____ _____	☐ A
145. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	☐ Y ☐ N
a. If yes, list the sources and explain. _____ _____	☐ A
146. Describe how the change will or will not affect your ability to make call. _____ _____	☐ A

147. When was the last time each water right proposed for change was appropriated and used beneficially? If there has been a period of nonuse, answer questions 147.a to 147.d. _____	
a. Why was the water right not used? _____ _____	☐ A
b. Why will a resumption of use not adversely affect other water users? _____ _____ _____	☐ A
c. Is the period of nonuse greater than 10 years for any of the water rights proposed for change? If yes, list which water rights. _____	☐ Y ☐ N
d. Have water rights been authorized to use the source during the period of nonuse for any of the water rights proposed for change? If yes, explain. _____ _____	☐ Y ☐ N
148. Is this a point of diversion change?	☐ Y ☐ N
a. If yes,	
i. Are the proposed points of diversion upstream or downstream of the historical points of diversion? _____	
ii. Are there intervening water users between the historical and proposed points of diversion?	☐ Y ☐ N
1. If yes, list the water rights. _____ _____	☐ A

iii. Will any new points of diversion or conveyance infrastructure be shared with one or more existing water rights?	☐ Y ☐ N
1. If yes, describe how capacity of the new shared point of diversion and/or conveyance infrastructure is sufficient for all water rights. _____ _____ _____	☐ A

Adverse Effect: Evaluation of Impacts to Identified Surface Water Rights for Return Flow Analysis

149. Respond to questions in this section if you elected in questions 65 or 93 to answer optional questions 150 to 154. Answer one time for each surface water source receiving return flows. Use "Additional Return Flow Source (606P)" sheet if there is more than one source. If you did not elect to answer these questions or answered these questions earlier in the preapplication meeting, this section is complete; skip to question 155.	
150. What is the surface water source for which you are answering questions 151 to 154? _____	
151. Are stream gage data available?	☐ Y ☐ N
a. If yes, answer question 152.	
b. If no, answer question 153.	
152. Stream gage data are available	
a. Is one stream gage located above, and one stream gage located below the location where return flows accrue?	☐ Y ☐ N
i. If no, is only one stream gage located near the location where return flows accrue?	☐ Y ☐ N
1. If yes, is the stream gage upstream or downstream? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	

c. What is the distance between the gage(s) and the location where return flows accrue? Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the location where return flows accrue? This includes dams that control the flow and streams with large gaining and/or losing reaches.	☐ Y ☐ N
i. If yes, explain. _____ _____	☐ A
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
g. Is each available stream gage operated and maintained by USGS or DNRC?	☐ Y ☐ N
i. If yes, skip to question 152.h.	
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.	
1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____	
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N

3. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N
h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue?	☐ Y ☐ N
i. If yes, record how many meet the standard, then skip to question 155 because this section is complete. _____	
ii. If no, answer question 153.	
153. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue, is the source otherwise measured?	☐ Y ☐ N
a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the Department's measurement standards or, in combination with an approved request to deviate from the Department's standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 154.	
b. If yes,	
i. Submit measurements to the Department.	☐ S
ii. Who collected the measurements? _____	☐ A

iii. With what method were the data collected? _____ _____	☐ A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	☐ Y ☐ N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	☐ A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N
1. If yes, explain. _____ _____	
viii. Do available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue?	☐ Y ☐ N
1. If yes, this section is complete. Skip to question 155.	
2. If no, answer question 154.	
154. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	☐ A

ii. Describe the estimation technique. _____ _____ _____ _____ _____	☐ A
b. If no, but a Department-accepted estimation technique will be appropriate for the source receiving return flows:	
i. Will measurements be collected prior to submission of a completed Form 606P-B that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N
1. If yes,	
a. With what method will the data be collected? _____ _____	☐ A
b. What will be the interval of measurement? _____	
c. Describe the proposed estimation technique. _____ _____ _____ _____	☐A
2. If no, do you plan on requesting to deviate from the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique? Neither the Department's technical analyses nor scientific credibility review of your technical analyses can commence until the Department receives measurements that meet Department measurement standards, or in combination with an approved request for variance from these standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N

c. If no, because no Department-accepted estimation technique will be appropriate for the source receiving return flows:	
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months when return flows accrue?	☐ Y ☐ N
1. If no, will measurements be collected prior to submission of a completed Form 606P that meet the Department's standard of monthly measurements throughout the months when return flows accrue?	☐ Y ☐ N
a. If yes, with what method will the data be collected? _____ _____	☐ A
b. If no, do you plan on requesting a variance to deviate from the Department's standard for monthly measurements throughout the months when return flows accrue? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request for a variance from these standards are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N
155. If you went straight to this section when referenced, go back to question 65 for surface water changes and question 93 for groundwater changes. If you waited to answer in consecutive order and have completed all prior sections, move to question 156.	

Adverse Effect: Evaluation of Impacts to Identified Water Rights for Surface Water Depletion Analysis

156. Respond to questions in this section if you elected in question 84 to answer optional questions 157 to 161. Answer one time for each hydraulically connected source. Use "Additional Hydraulically Connected Source (606P)" sheet if there is more than one source. If you did not elect to answer these questions or answered these questions earlier in the preapplication meeting, this section is complete; skip to question 162.

157. What is the surface water source for which you are answering questions 158 to 161? _____	
158. Are stream gage data available?	☐ Y ☐ N
a. If yes, answer question 159.	
b. If no, answer question 160.	
159. Stream gage data are available	
a. Is one stream gage located above and one stream gage located below the point of net depletion accumulation?	☐ Y ☐ N
i. If no, is only one stream gage located near the point of net depletion accumulation?	☐ Y ☐ N
1. If yes, is the stream gage upstream or downstream? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	
c. What is the distance between the gage(s) and the point of net depletion accumulation? Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the point where net depletions accrue? This includes dams that control the flow and streams with large gaining and/or losing reaches.	☐ Y ☐ N
i. If yes, explain. _____ _____	☐ A
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	

f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
g. Is each available stream gage operated and maintained by USGS or DNRC?	☐ Y ☐ N
i. If yes, skip to question 159.h.	
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.	
1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____	
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N
3. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ N
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N

h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions?	☐ Y ☐ N
i. If yes, record how many meet the standard, then skip to question 162 because this section is complete. _____	
ii. If no, answer question 160.	
160. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions, is the source otherwise measured?	☐ Y ☐ N
a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the Department's measurement standards or, in combination with an approved request to deviate from the Department's standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 161.	
b. If yes,	
i. Submit measurements to the Department.	☐ S
ii. Who collected the measurements? _____	☐ A
iii. With what method were the data collected? _____ _____	☐ A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	☐ Y ☐ N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	☐ A

vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N
1. If yes, explain. _____ _____	
viii. Do available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions?	☐ Y ☐ N
1. If yes, this section is complete. Skip to question 162.	
2. If no, answer question 161.	
161. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	☐ A
ii. Describe the estimation technique. _____ _____ _____ _____ _____	☐ A
b. If no, but a Department-accepted estimation technique will be appropriate for the hydraulically connected source:	
i. Will measurements be collected prior to submission of a completed Form 606P-B that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N
1. If yes,	
a. With what method will the data be collected? _____ _____	☐ A

b. What will be the interval of measurement? _____	
c. Describe the proposed estimation technique. _____ _____ _____ _____	☐ A
2. If no, do you plan on requesting to deviate from the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N
c. If no, because no Department-accepted estimation technique will be appropriate for the hydraulically connected source:	
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months with net depletions?	☐ Y ☐ N
1. If no, will measurements be collected prior to submission of a completed Form 606P that meet the Department's standard of monthly measurements throughout the months with net depletions?	☐ Y ☐ N
a. If yes, with what method will the data be collected? _____ _____	☐ A

b. If no, do you plan on requesting to deviate from the Department's standard for monthly measurements throughout the months with net depletions? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N
162. If you went straight to this section when referenced, go back to question 84. If you waited to answer in consecutive order and have completed all prior sections, move to question 163.	

Adequate Means of Diversion and Operation

163. Submit a diagram of how you will operate your system from the point of diversion to the place of use.	☐ S
164. Describe specific information about the capacity of the diversionary structure(s). This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length. _____ _____ _____	☐ A
165. Describe the size, materials, capacity, and configuration of infrastructure to convey water from point of diversion to place of use. _____ _____ _____ _____	☐ A
166. Does the proposed conveyance require easements?	☐ Y ☐ N
a. If yes, explain. _____ _____	☐ A
167. Do you propose to add a point of diversion?	☐ Y ☐ N
a. If yes, do you own the land where all proposed points of diversion are located?	☐ Y ☐ N
i. If no, documentation to show you have the right to use all points of diversion located on each property you do not own will be required upon application submittal. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.	

168. Describe your plan of operations, including specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot. _____ _____ _____	☐ A
169. Do you have any plans to measure your diversion and use?	☐ Y ☐ N
a. If yes, describe the plan and the type of measurements you will take. _____ _____	☐ A

Beneficial Use

170. Does the Department have a standard for any of the purposes for which water is used? Department standards can be found in ARM 36.12.112 and ARM 36.12.115.	☐ Y ☐ N
a. If yes, list the purposes for which the Department has a standard and note whether the water use falls within or outside the standard. _____ _____	
171. If no standard exists for any proposed purpose or if any proposed purpose falls outside of Department standards, explain how the use is reasonable for that purpose. _____ _____ _____ _____	☐ A
172. Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?	☐ Y ☐ N
a. If yes, have you researched or consulted with DEQ regarding those requirements?	☐ Y ☐ N
173. Are you proposing to use surface water for in-house domestic use?	☐ Y ☐ N
a. If yes, does a COSA exist for the proposed place of use?	☐ Y ☐ N
i. If yes, please submit the COSA.	☐ S
ii. If no, have you researched or consulted with DEQ regarding their requirements?	☐ Y ☐ N

Possessory Interest

174. Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use.	☐ Y ☐ N
a. If yes, explain. _____ _____ _____ _____	☐ A
b. If no, do you own all proposed places of use?	☐ Y ☐ N
i. If no, explain. Documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use will be required at application submittal. _____ _____ _____	☐ A

Non-Mandatory Project-Specific Questions

Change in Place of Storage

175. Does the project include one or more places of storage? If yes, answer questions 176 to 178 for each individual place of storage (use "Additional Place of Storage (606P)" sheet for additional places of storage). A Change Storage Addendum (606-SA) will be required at application submittal. If no, this section is complete; skip to question 179.	
176. Are preliminary designs available? Preliminary designs will be required at application submittal.	☐ Y ☐ N
a. If yes, submit preliminary designs.	☐ S
177. Will a drainage device be installed?	☐ Y ☐ N
178. Is the place of storage capacity calculated to be greater than 50 acre-feet?	☐ Y ☐ N
a. If yes, have you made an application to the DNRC Water Operations Bureau for a determination of whether the dam or reservoir is a high-hazard dam?	☐ Y ☐ N

179. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 16 and if you are answering in consecutive order, go to question 180.	

Instream Flow Change

180. You may respond to the questions in this section if the project involves an instream flow purpose and you choose to answer the non-mandatory questions. Otherwise, this section is complete, skip to question 184.	
181. Does the protected reach begin at the existing point of diversion?	☐ Y ☐ N
a. If no, does the protected reach begin upstream of or downstream from the existing point of diversion? _____	
182. Provide initial details about a streamflow measuring plan, which include the points where measurements occur, the interval of measurement, and the methods and equipment used. A complete streamflow measuring plan will be required for the application. _____ _____ _____ _____ _____ _____	☐ A
183. Provide initial details about an operation plan, which may include the proposed protected flow rate (GPM or CFS), proposed protected volume (AF), and the proposed protected period. If you propose a trigger flow, please explain. A complete operation plan, based on the technical analyses, will be required for the application. _____ _____ _____ _____	☐ A
184. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 27 and if you are answering in consecutive order, go to question 185.	

Mitigation, Aquifer Recharge, and Marketing for Mitigation

185. You may respond to the questions in this section if the project involves mitigation, aquifer recharge, or marketing for mitigation, and you choose to answer the non-mandatory questions. Otherwise, this section is complete, skip to question 190. For mitigation water, answer questions 186, 187, and 188. For aquifer recharge water, answer questions 187 and 188. For marketing for mitigation/aquifer recharge, answer question 189.	
186. Do the water rights proposed for change to mitigation water have a period of use that is greater than or equal to the period when mitigation is necessary?	☐ Y ☐ N
a. If no, how will mitigation water be made available during the entire period when mitigation is necessary? _____ _____ _____	☐ A
187. How do the priority dates of the water rights proposed for change compare to other water rights on the source? _____ _____	☐ A
188. Do you have measurement records or Water Commissioner records that show the reliability of the water rights proposed for change to a mitigation water or aquifer recharge purpose?	☐ Y ☐ N
a. If yes, submit them to the Department.	☐ S
189. Describe the need for marketing for mitigation/aquifer recharge. _____ _____ _____ _____	☐ A
190. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 25 and if you are answering in consecutive order, go to question 191.	

Water Marketing

191. You may respond to the questions in this section if the project includes the water marketing purpose, and you choose to answer the non-mandatory questions. This does not include marketing for mitigation. Otherwise, this section is complete, skip to question 195.	☐ Y ☐ N

192. How will you control or limit access to the water? _____ _____	☐ A
193. Do you have contracts for the entire volume and flow rate sought?	☐ Y ☐ N
194. Submit a service area map. Create map on an aerial photograph or topographic map and show the following: general service area boundary, section corners, township and range, scale bar, and north arrow.	☐ S
195. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 26 and if you are answering in consecutive order, go to Follow-Up section.	

FOLLOW-UP

The table below will identify all questions marked for follow-up. Applicant follow-up will be submitted with the completed Preapplication Meeting Form: Part B (Form 606P-B). Applicant will provide all responses to questions marked for follow-up on a separate document entitled "Follow-up Responses." At the preapplication meeting, the Department may offer to provide the Applicant with information pertinent to identified follow-up. In this case, record in the notes column what information the Department will provide and the date by which the Department will email this information to the Applicant. This information will supplement but not replace Applicant follow-up. It is the responsibility of the Applicant to provide all follow-up, including questions supplemented by Department information, in the "Follow-up Responses" document.

The "Follow-up Responses" document must conform to the following standards. Label all responses with the question number. Answer questions in the same format as the form. For responses in the form of checkboxes, write "Y", "N", "S". Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted.

***The Applicant may not alter the Preapplication Meeting Form: Part A (Form 606P-A) signed at the Preapplication Meeting**. Instead, the Applicant must use the Amended Responses procedure defined in Form 606P-B. Do not include additional information for questions that were not marked for follow-up on this table; instead include any additional information pursuant to the process for amending responses defined in Form 606P-B.*

QUESTION #	NOTES
8	Map
9	Map
10a	POD legal land description
13a ii	Legal land description and irrigated acres
37	Map
39b i 1 a	Evidence of historic use
41a	POD on Statement of Claim needs correction
42b i	Method to estimate historic capacity
60	Map with new, historic, and retired POU
61	Number of acres retired
62	Proposed irrigated acres outside historic POU
102	Volumes
107b	Percent consumption

125 a,b,c	Mitigation Water
126a	Legal land description of mitigation reach

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION

"We attest that the information on this form accurately describes the proposed project discussed during the preapplication meeting and that the items marked for follow-up will require the applicant to provide additional information before the form is deemed complete."

"Applicant acknowledges that any information provided by the Department during the preapplication meeting is preliminary and subject to change."

"Applicant acknowledges that if the follow-up information provided to the Department substantially changes the proposed project, for example in a way that alters which sections of the form are applicable or which technical analyses are required, or who is to complete the technical analyses, the applicant will need to schedule a new preapplication meeting so that the Department can identify any additional information necessary for completion of the technical analyses (ARM 36.12.1302(3)(c))."

Upon Department receipt of the completed form (within 180 days following the meeting), the Department reserves five business days to return the form to the applicant if:

1 – the completed form does not include all necessary follow-up information identified in the meeting, OR
2 – the completed form is not adequate for the Department to proceed with technical analyses, OR
3 – the applicant has elected to complete technical analyses and has not submitted each piece of technical analysis required, OR
4 – the applicant has substantially changed the details of the proposed project, such as in a way that alters which sections of the form are applicable, which technical analyses are required, or who is to complete the technical analyses.

If the Department returns the form to the Applicant within these five days due to reasons 1-3 above, the Applicant can use the balance of their 180-day period in ARM 36.12.1302(4) or (5) to gather the remaining follow-up information needed. If there is no time remaining in the 180-day period, the Applicant can submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). Even if there is still time remaining, the Applicant can choose to schedule a new preapplication meeting. The Department shall transfer the $500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires. If the Department returns the form to the Applicant within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the $500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires.

Applicant Signature	11/28/2025 Date
Applicant Signature	Date
Department Signature	12/15/2025 Date