

**MISSOURI-MADISON RIVER FUND RECREATION PROJECT
FY2023 GRANT APPLICATION FORM**

1. Has this project been previously submitted for funding consideration by the River Fund Board, either as a separate project or part of another project? _____ Yes X No

If yes, please identify which years the application was submitted and, if the project was previously funded, list the amount funded by year.

2. **Project Description:** Provide a description of the proposed project. Be sure to include specific project elements that are planned, and any associated cost detail.

- ▶ Devil's Elbow and Clark's Bay recreation sites are located on Hauser Lake, just outside of Lakeside, MT, around 20 minutes from Helena. Both wells for these systems are in Clark's Bay and are not very high above the lake. The BLM pumps water up a hill to the pumphouse at Devil's Elbow. These wells have static water levels below 25', which means that MT DEQ requires the water to be treated before it can be served to the public. There are no issues or concerns with the quality of the water other than the static water level. We have been chlorinating the water for these system for over a decade and chlorinating water is a time/labor intensive process which is exasperated with the fact that we are struggling to recruit and retain staff. Chlorine treatments for drinking water require daily testing. Chlorine treatments can also lead to corroded/rusted pipes and can wear holes through pipes or allow them to break/leak easier. The treatment systems used at these sites are past their expected lifespans. Due to staffing shortages the BLM was not able to provide drinking water to the public at these very popular sites as there was not enough staff to adequately operate and maintain the systems.

This project proposal is to drill two wells near the pumphouse and garage in Devil's Elbow. Devil's Elbow is located on a hillside adjacent to Clark's Bay, the two are contacted along the shoreline and the pipeline runs down an abandoned roadbed. By locating the wells higher in elevation, the BLM should be able to get static water levels above the 25' static water level and remove the need to chlorinate the drinking water. The BLM would tie the two new wells into the two existing distribution systems. The pipe that was used to pump water up to Devil's Elbow would be used to feed water down to the Clark's Bay pumphouse and its distribution system. The other well would get plumbed into the Devil's Elbow pumphouse and distribution system. This would allow the BLM staff to undertake other maintenance tasks with the limited staff time and provide clean drinking water to the public.

Using the existing distribution systems makes most financial sense, however it will take some repairs. The BLM will need to make some associated improvements/replacements to the pipes throughout the system and will replace many if not all the hydrants throughout the site as well. Some portions of the pumphouses would need to be realigned as would the main waterline between the two sites.

Cost associated with drilling two wells and making the associated repairs is \$94,000. Please see cost estimate breakdown that is attached.

Please see attached map and engineering drawings of the proposed project.

3. **Project Phasing:** Briefly discuss whether the project could be phased over more than one year or construction season.

- ▶ If necessary, we could drill the wells at separate times, however it would be more cost effective to drill them both at the same time as the contractors would already be mobilized, and since we would need to reconfigure the water systems and the main pipeline between the sites it wouldn't make much sense to do them at separate times. The BLM would be able to come up with additional funds to cover portions the River Fund is not able to.

4. **Cultural Resource Management:** Cultural Resource Management (CRM) requirements for any activity related to this Project must be completed and documented to NorthWestern Energy as a condition of awarded River Fund grant funds or NorthWestern Energy matching funds. Grant and matching funds may not be used for any land-disturbing activity, or the modification, renovation, or removal of any buildings or structures until the CRM consultation process has been completed. Agency applicants must submit a copy of the proposed project to a designated Cultural Resource Specialist for their agency. Private parties or non-governmental organizations are encouraged to submit a copy of their proposed project to a CRM consultant they may have employed. Private parties and non-governmental organizations may also contact the NorthWestern Energy representative for further information or assistance. Applications submitted without this section completed will be held without any action until the information has been submitted.

Summarize how you will complete requirements for Cultural Resource Management.

- ▶ BLM is required to analyze all projects to ensure protections for cultural resource management. BLM completes this either with in house archeology staff or through a contractor.

5. **Scoring Criteria.** Respond to the following Scoring Criteria. Put answers in the cell after ▶.

5.1 Does the project occur at a 2188 license site?

- ▶ Yes, Devil's Elbow and Clark's Bay are both 2188 sites.

5.2 Project is for operation and maintenance of an existing recreation site. Describe if the project will meet operation and maintenance needs. Higher points awarded to projects that are higher priority and are not a recurring expense. Lower points awarded to projects that are low priority and/or have been previously funded. It is unlikely that the timeframe of River Fund would address emergency operation and maintenance needs but could support non-emergency operation and maintenance needs.

- ▶ Replacing the wells and getting these drinking systems back online is non-emergency operation and maintenance of existing recreation sites.

5.3 Project involves collaboration with other agencies or organizations. Identify project partners other than NorthWestern Energy or River Fund, if any, and describe their participation. Document all funding sources and all in-kind support and services to a project, because all are sources of partnerships and in-kind contributions from public agencies qualify for calculation of NorthWestern Energy matching funds. If there are no project partners, explain why.

- ▶ There are no partners for this project, however we have collaborated with MT DEQ and well drilling contractors.

5.4 Project provides a benefit to public recreation in the Project Area and addresses specific issues and goals of the Missouri-Madison Comprehensive Recreation Plan (CRP). Identify how the project provides a benefit to public recreation and describe how the project specifically addresses issues and goals in Chapter 2-1 of the CRP.

- ▶ By improving the water systems at these sites, we would be providing safe and well-managed recreation sites that provide enjoyable user experiences which is the first goal listed in the CRP.

5.5 Project responds to a clearly identified need. Describe and document the need for this project and how the project would address that need. Cite specific sources, as possible, to establish need and support the project. Discuss consequences if the funding request is unsuccessful. For a new construction or acquisition project, identify how post-project, long-term costs (such as site maintenance and management) will be provided.

- ▶ The project sites are very popular developed recreation sites about 15 minutes outside of Helena MT. The recreating public has grown to expect clean, safe drinking water at these facilities. BLM did not serve water to the public in 2022 due to the administrative burden required to treat the water of the existing well. Replacing the wells will reduce the burden and provide clean, safe water that the public expects at these sites. If this application is not successful, the BLM would find a way to come up with the funding to get this projected completed in the spring. By doing so it would likely cut into our ability to fund another aspect of the recreation program.

5.6 Project design options have been considered, estimated, and a preferred design selected. Well-designed projects reduce occurrences of budgetary overages, design changes, and additional complications. Discuss the current design phase for this project, demonstrate that the project has been well vetted, and include cost estimates.

- ▶ Project designs have been considered in great details. Engineering drawing and estimates are attached. We have consulted with the companies that could be drilling the wells as well as with DEQ about this project. Everyone has agreed this is the best approach and it is needed.

5.7 Project supports or protects other resources and is consistent with or supports resource plans in the Project Area. Describe how this project will protect resource values (such as public access, water quality, fisheries, wildlife, habitats, and cultural resources) and support other resource and agency plans, including Project 2188 License plans and land use and land management plans in place in the Corridor. Management plans should provide justification for the project.

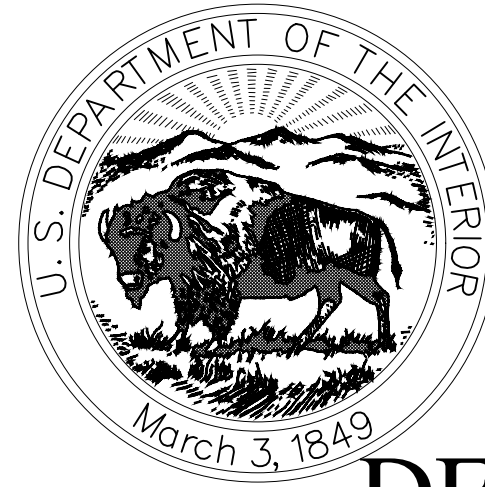
- ▶ This project will neither impact nor benefit the other resources in the area.

6. Insert map(s) showing the location of the proposed project, drawings and design work related to the project, and a reasonable number of photos (as available) here.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CONTRACT ESTIMATE SUMMARY

Contract/Project Name Devil's Elbow and Clark's Bay Well and Water System Improvements	Estimator G. Anderson	Date 9/7/2022
Project Location Butte Field Office	Contract Number	
Project Description The White Sandy Campground requires asphalt patching, crack-sealing, chipseal, and stripe painting throughout the entire site.		

<u>Item</u>	<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost Amount</u>
<u>1</u>	1	Clark's Bay Well	EA	1	\$30,000.00	\$ 30,000.00
<u>2</u>	2	Devil's Elbow Well	EA	1	\$30,000.00	\$ 30,000.00
<u>3</u>	3	Waterline Reconfiguration and New 2" HDPE	LS	1	\$20,000.00	\$ 20,000.00
<u>4</u>	4	Abandon Existing Wells	EA	2	\$2,500.00	\$ 5,000.00
<u>5</u>	5	Excavation and Installation of Underground Electrical	FT	500	\$15.00	\$ 7,500.00
<u>6</u>	6	Removal and Disposal of Existing Waterline Features	LS	1	\$1,500.00	\$ 1,500.00
Total Estimated Cost =						\$ 94,000.00



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

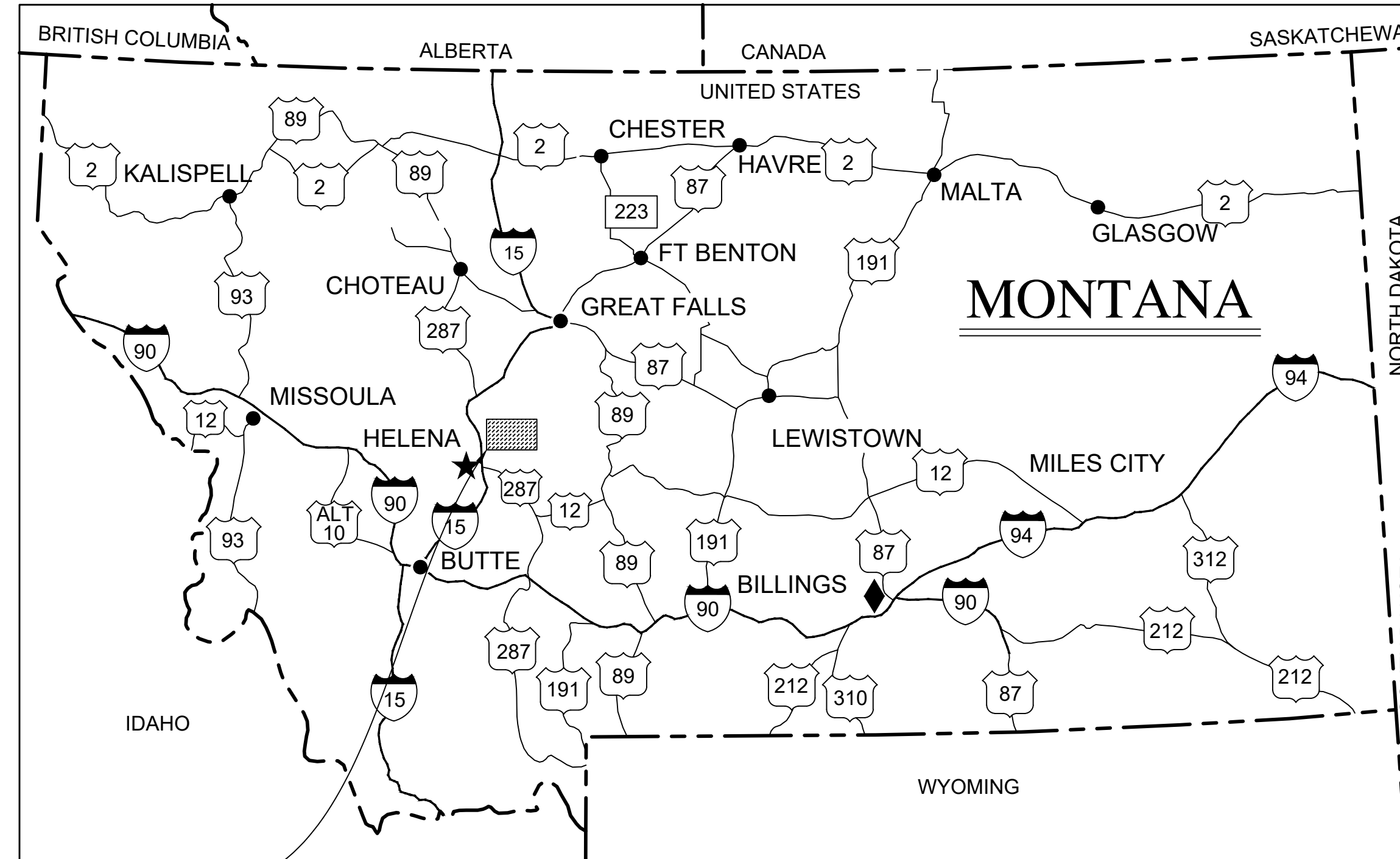
DEVIL'S ELBOW AND CLARK'S BAY WELL IMPROVEMENT

LEWIS AND CLARK COUNTY

BUTTE FIELD OFFICE

GENERAL ENGINEER'S NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
4. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTOR SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
5. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING PUBLIC OR PRIVATE UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACT IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE (1-800-STAE-IT) PRIOR TO ANY EXCAVATION.
6. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH DISCREPANCY.
7. THE CONTRACTOR IS TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH THE FINAL SITE PLAN PRIOR TO CONSTRUCTION AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
8. COORDINATION BETWEEN ALL PARTIES INVOLVED IS ESSENTIAL TO THE CONTRACT.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS, AS THE SITE MAY BE LOCATED IN AN AREA WITH EXTREME WEATHER CONDITIONS OR WITHIN A FLOOD PRONE AREA.



PROJECT LOCATION STATE REFERENCE MAP (N.T.S)



VICINITY MAP (N.T.S)

DRAWING INDEX	
C1	COVER SHEET
C2	EXISTING SITE PLAN
C3	PROPOSED SITE PLAN
C4	PUMP ROOM LAYOUT

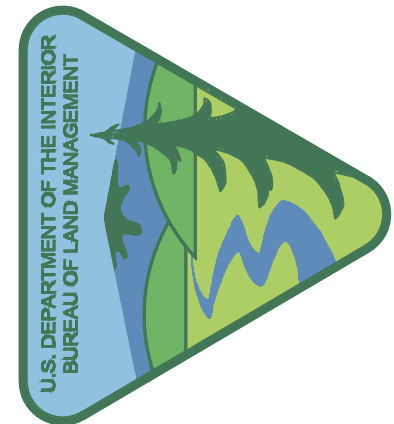
ESTIMATED QUANTITIES		
ITEM	QUANTITY	UNIT
CLARK'S BAY WELL	300	FT
DEVIL'S ELBOW WELL	300	FT
2" WATERLINE	400	FT
UNDERGROUND ELECTRICAL	500	FT
ABANDON EXISTING WELLS	2	EA
REMOVAL AND DISPOSAL OF EXISTING WATERLINE FEATURES	1	LS

⁽¹⁾ EARTHWORK QUANTITIES ARE "IN PLACE" ESTIMATES. NO SHRINK OR SWELL IS ASSUMED. NO GROUND LOSS IS INCLUDED
⁽²⁾ THE QUANTITIES ARE AN ESTIMATE OF THE ENGINEER. THE CONTRACTOR SHALL MAKE THEIR OWN INDEPENDENT ESTIMATE OF QUANTITIES AND BID THEREON.

DIRECTIONS TO CLARK'S BAY AND DEVIL'S ELBOW CAMPGROUND:
FROM HELENA, DRIVE EAST ON YORK ROAD FOR 22 MILES. THE CAMPGROUND AND DAY USE AREA WILL BE LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD.



Know what's below.
Call before you dig.



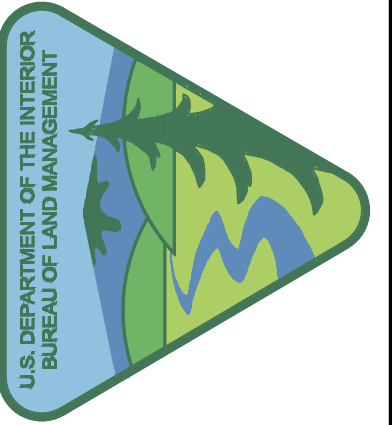
CLARKS BAY AND DEVIL'S ELBOW WELLS

CONCEPTUAL PLAN
COVER SHEET

APPROVED	DATE	REVISION	MARK

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT: WESTERN MONTANA DISTRICT
DESIGN OFFICE: WESTERN MONTANA DISTRICT
ISSUED FOR: BUTTE FIELD OFFICE ISSUE DATE: 08/29/2022

SHEET 01 OF 04



CLARKS BAY AND DEVIL'S ELBOW WELLS

CONCEPTUAL PLAN
EXISTING SITE PLAN

CLARK'S BAY NOTES

CLARK'S BAY EXISTING WELL DEPTH 40'
STATIC WATER LEVEL = 21'

DEVIL'S ELBOW NOTES

DEVIL'S ELBOW EXISTING WELL DEPTH 260'
STATIC WATER LEVEL = 25'

WATER SYSTEM NOTES

MT DEQ REQUIRES ALL PUBLIC WATER SYSTEMS WITH STATIC WATER LEVELS UNDER 25' TO BE CHLORINATED PRIOR TO DISTRIBUTION TO THE PUBLIC.

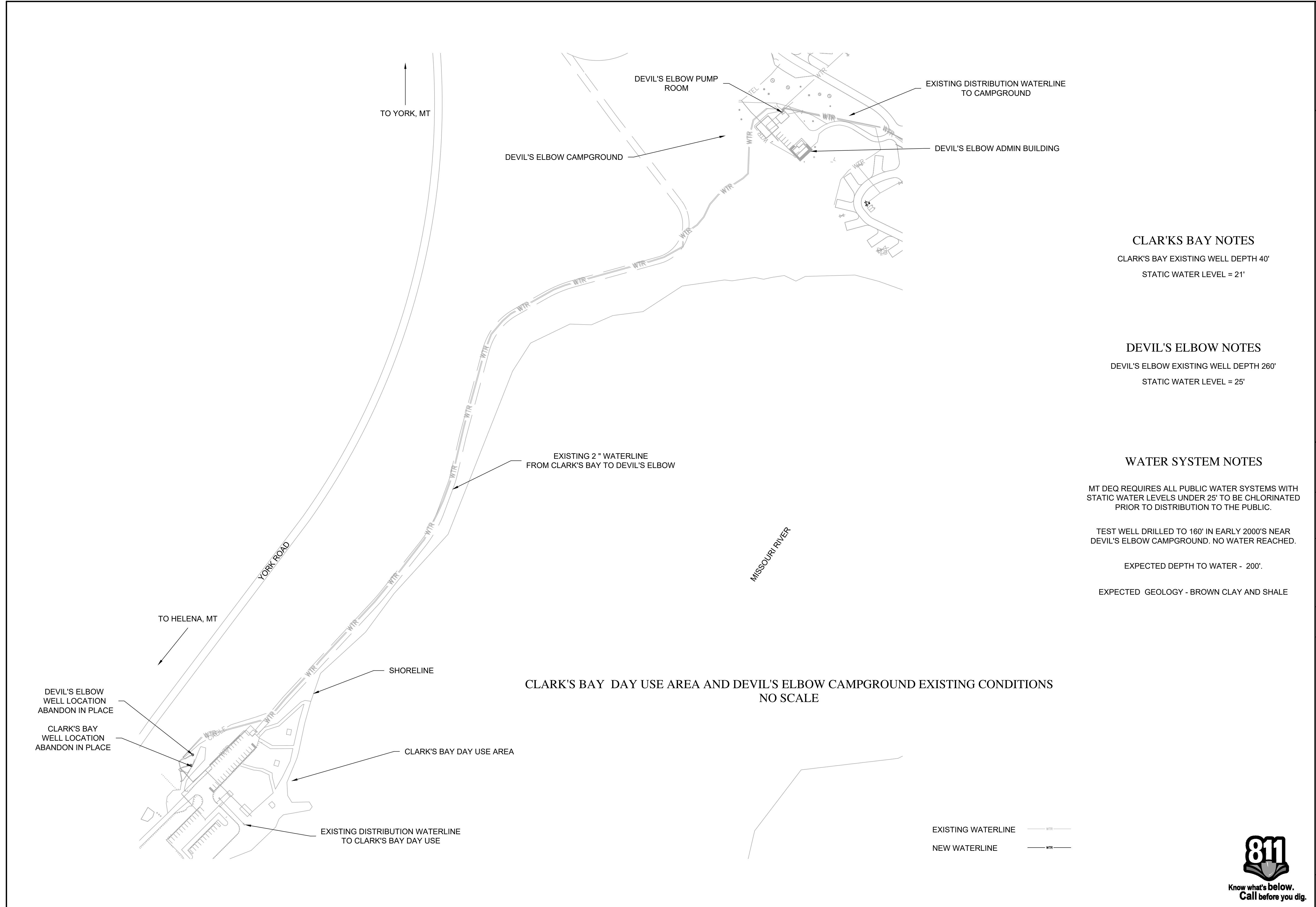
TEST WELL DRILLED TO 160' IN EARLY 2000'S NEAR DEVIL'S ELBOW CAMPGROUND. NO WATER REACHED.

EXPECTED DEPTH TO WATER - 200'.

EXPECTED GEOLOGY - BROWN CLAY AND SHALE

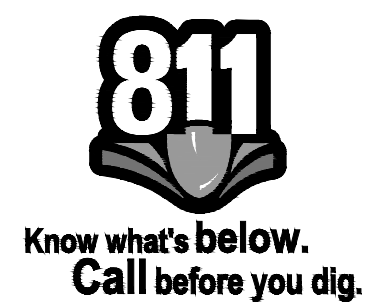
APPROVED	DATE	REVISION	MARK

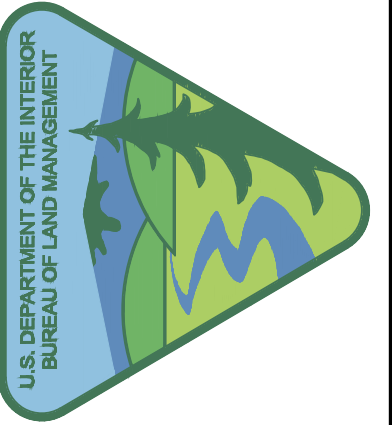
U.S. DEPARTMENT OF THE INTERIOR	ISSUED FOR: BUTTE FIELD OFFICE	ISSUE DATE: 08/29/2022
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CLARK'S BAY DAY USE AREA AND DEVIL'S ELBOW CAMPGROUND EXISTING CONDITIONS
NO SCALE

EXISTING WATERLINE ——— WTR ———
NEW WATERLINE ——— WTR ———





CONSTRUCTION NOTES

- 1 WELLS TO BE DRILLED IN ACCORDANCE WITH MONTANA WELL CONSTRUCTION SPECIFICATIONS FOR PUBLIC DRINKING WATER SYSTEMS.
- 2 NEW UNDERGROUND ELECTRICAL TO BE RUN FROM ELECTRICAL PANEL TO WELL PUMPS
- 3 ALL NEW WATERLINES SHALL BE 2" HDPE
- 4 PUMP ROOMS AT BOTH CLARK'S BAY AND DEVILS ELBOW TO BE RECONFIGURED TO INCORPORATE NEW WELLS
- 5 ALL PUBLIC AND PRIVATE LOCATES SHALL BE DONE BY CONTRACTOR PRIOR TO EXCAVATION

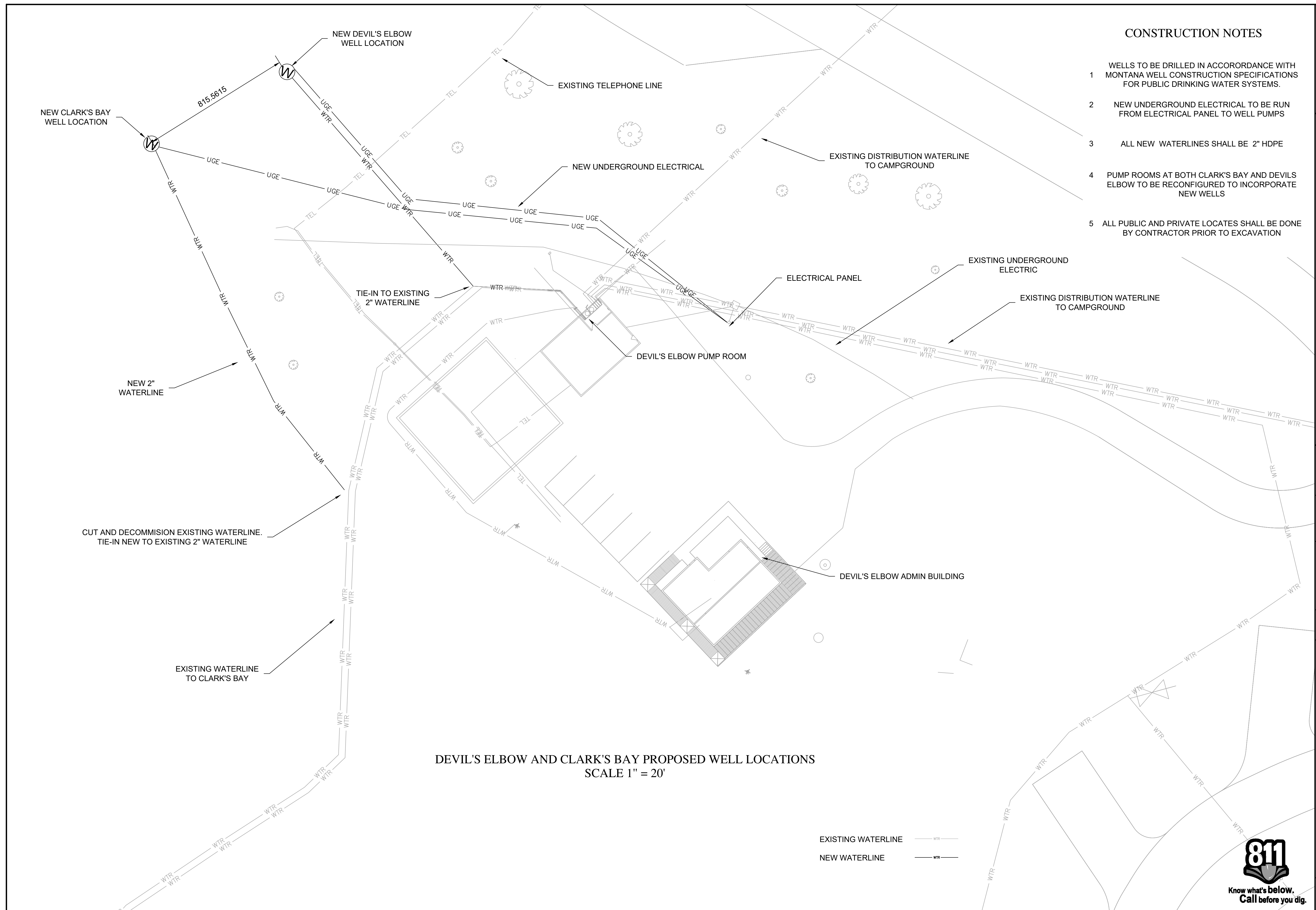
CLARKS BAY AND DEVIL'S ELBOW WELLS

CONCEPTUAL PLAN
SITE PLAN

MARK	REVISION	DATE	APPROVED

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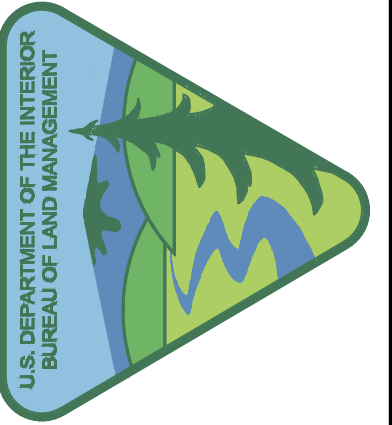
SHEET 03 OF 04



DEVIL'S ELBOW AND CLARK'S BAY PROPOSED WELL LOCATIONS
SCALE 1" = 20'

EXISTING WATERLINE — WTR —
NEW WATERLINE — WTR —





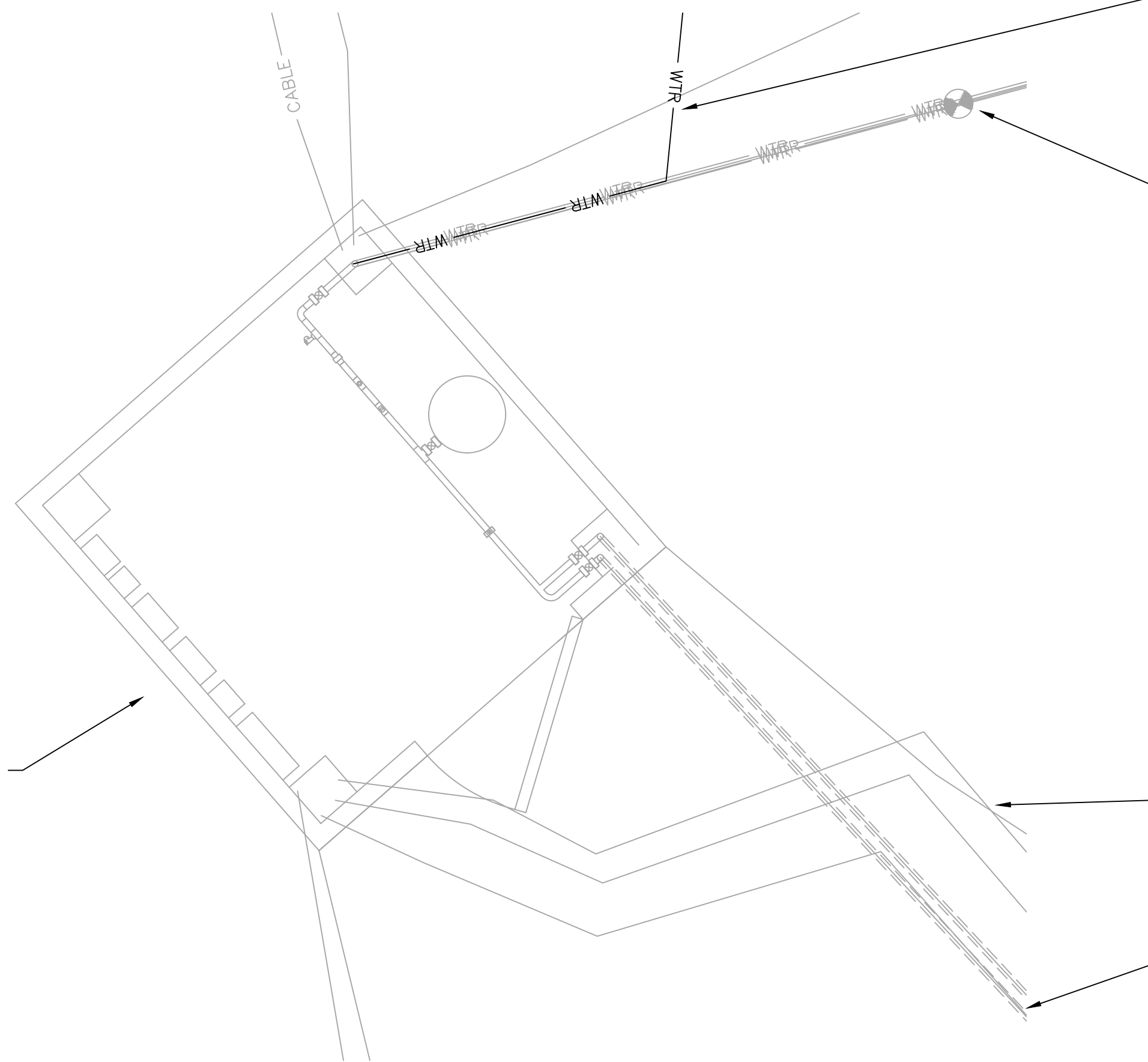
CONSTRUCTION NOTES

- REMOVE AND DISPOSE OF ALL WATERLINE IMPACTED DURING EXCAVATION OF NEW WATERLINES.
- TIE-IN NEW WELL LINES TO EXISTING WELL LINES APPROXIMATELY 10' FROM THE PUMP ROOM TO ALLOW ROOM FOR EXCAVATION.
- ABANDON EXISTING WELLS LOCATED AT CLARK'S BAY DAY USE AREA IN ACCORDANCE WITH DEQ SPECIFICATIONS.
- LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION

CLARKS BAY AND DEVIL'S ELBOW WELLS

CONCEPTUAL PLAN
SITE PLAN

PROTECT IN PLACE ALL BUILDINGS AND DEVELOPED SITE FEATURES



DEVIL'S ELBOW PUMP ROOM
SCALE 1" = 2'

PROTECT IN PLACE ALL UTILITES

PROTECT IN PLACE ALL DISTRIBUTION WATERLINES

PROTECT IN PLACE EXISTING DISTRIBUTION WATER LINES

TIE 2" WATERLINE FROM WELL TO PUMP ROOM REMOVE AND DISPOSE OF ALL EXISTING WATERLINE IMPACTED DURING EXCAVATION

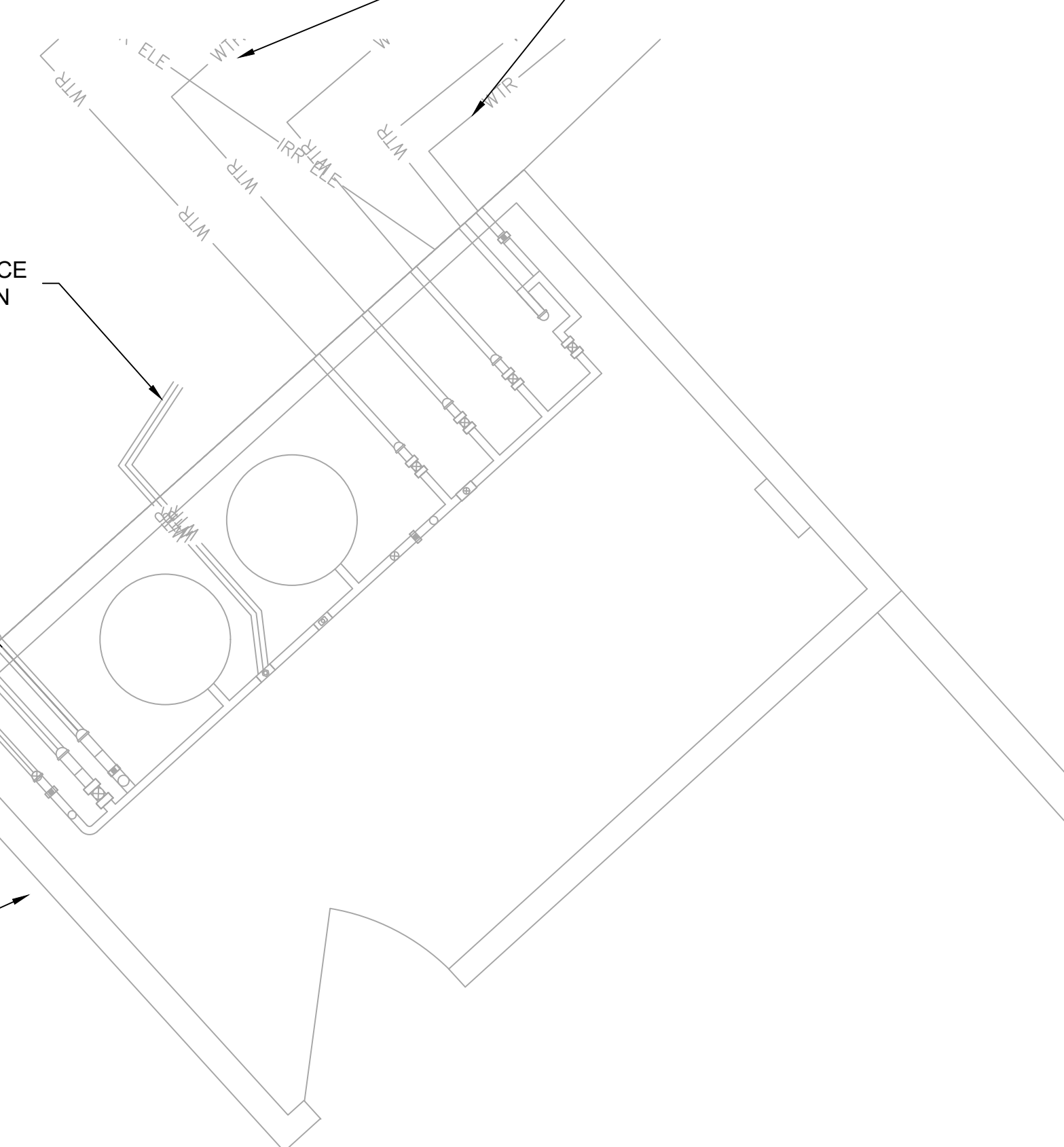
- TIE 2" WATERLINE FROM WELL TO PUMP ROOM REMOVE AND DISPOSE OF ALL EXISTING WATERLINE IMPACTED DURING EXCAVATION
- PROTECT IN PLACE ALL EXISTING DISTRIBUTION WATERLINES
- REMOVE AND DISPOSE OF CHLORINE CONTACT CHAMBER

PROTECT IN PLACE EXISTING DRAIN

PROTECT IN PLACE ALL UTILITES

PROTECT IN PLACE ALL BUILDINGS, ASPHALT, AND DEVELOPED SITE FEATURES

EXISTING WATERLINE — WTR —
NEW WATERLINE — WTR —



CLARK'S BAY PUMP ROOM
SCALE 1" = 2'



MARK	REVISION	DATE	APPROVED

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