



IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little

Director Mathew Weaver

November 2, 2023

5341 W. Torana Drive
Meridian, ID 83646

RE: City of Grangeville Water System Improvements

Dear Walter M. Steed & Associates:

The Department received your letter on October 18, 2023, requesting comments regarding the City of Grangeville's proposed municipal water system improvements. The attachments included with the letter show the proposed well location to be a point of diversion (POD) that the Department has already approved in Transfer no. 86026. A drilling permit for that well has also been approved. Enclosed is a copy of the transfer approval.

The transfer approval authorized water rights 85-2137, 85-2138, 85-4166, 85-7120, 85-7276, and 85-7598 to be diverted from seven PODs, including the proposed well. If the City of Grangeville is anticipating that the maximum diversion rates listed on the water rights will be exceeded, they will need to file an application for permit to acquire a new water right.

Please let me know if there is anything else you need.

Regards,

Blake Burkard, Engineer Intern
Water Allocations Bureau
(208) 287-4870
blake.burkard@idwr.idaho.gov

CC: Michelle Richman, Northern Region Manager (via email)

RECEIVED

OCT 18 2023

DEPARTMENT OF
WATER RESOURCES

walter m. steed
& associates

Project Administration

E-mail: wmsteed@aol.com

5341 W. Torana Drive
Meridian, Idaho 83646
(208) 883-0123

October 16, 2023

Idaho Department of Water Resources
PO Box 83720
Boise ID 83720-0098

Re: City of Grangeville Water System Improvements

Dear Sirs:

The City of Grangeville, Idaho is making application for an Idaho Community Development Block Grant (ICDBG) to partially fund improvements to their Water System.

The City has experienced water rationing when one of their existing wells has gone down so a new, additional, 1,000--gpm well is being proposed. Additionally, the City's water system high zone lacks adequate water storage, so a new 150,000-gal. water storage tank is being proposed in south Grangeville as part of the project as well. Additional future work will be to replace undersized and worn out water system piping. All work will be done on either City property or rights-of-way and maps of the system and proposed work is enclosed.

For inclusion in the required Environmental Review Record for this project, we would appreciate a letter from you within thirty (30) days stating your agency's position regarding this proposed construction project.

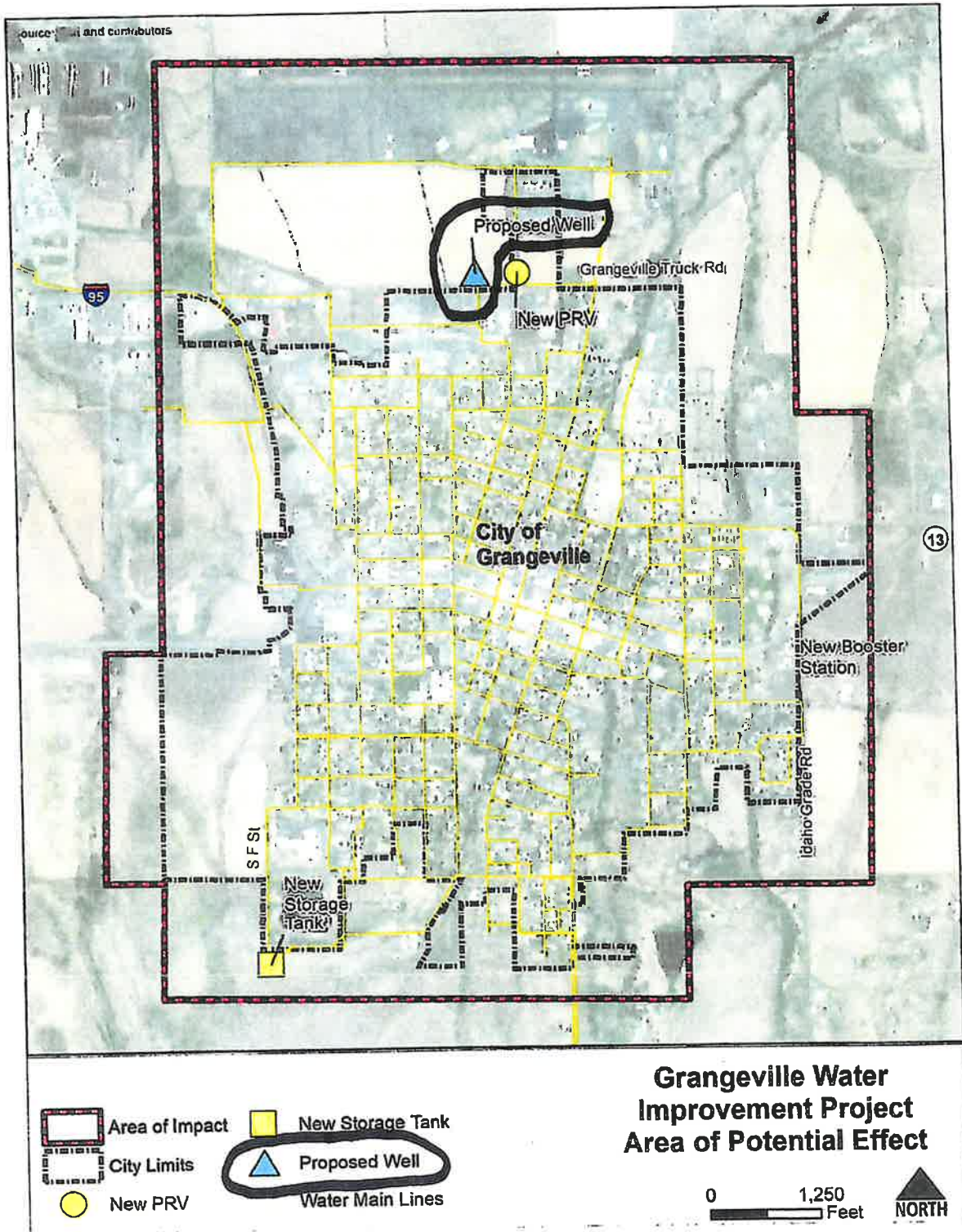
Thank you for your assistance and cooperation. If you require any additional information, please do not hesitate to let us know.

Yours truly,



Walter M. Steed
Project Administrator

encl.



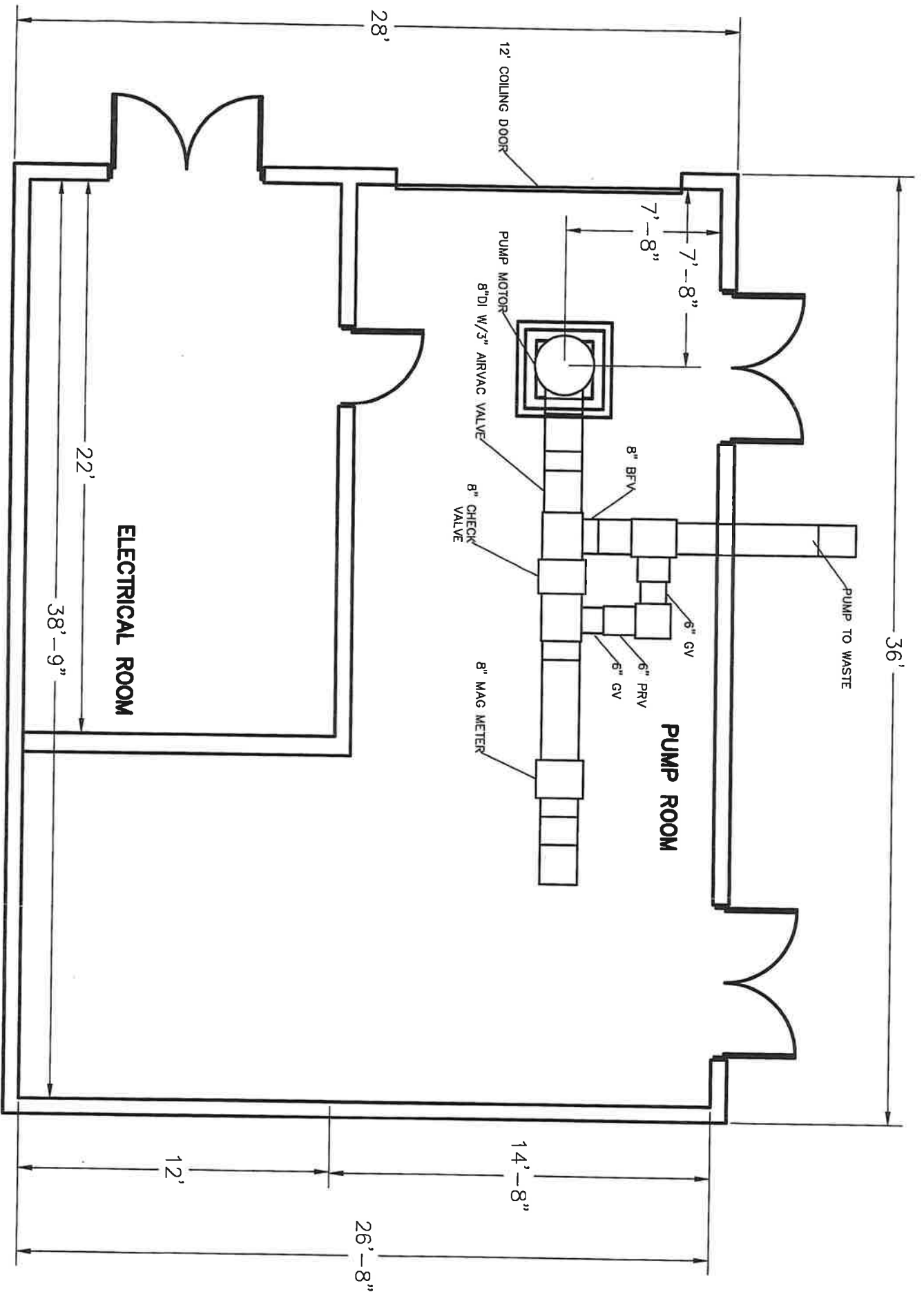
PROJECT MAP

APPROXIMATE
SITE BOUNDARY

TP-22128A-3

TP-22128A-1

TP-22128A-2



9 Well and pump House Construction [503.03.c]

9.1 Well house. [503.03.c.i]

Include information on the anticipated construction and well house equipment such as heating, ventilation, interior lighting, and drain(s):

The well house will be constructed with the well pump, electrical systems, heating, ventilation, lighting, and floor drains. A preliminary layout has been included in Appendix E Preliminary Well House Layout & Section View.. The preliminary layout for the well house includes a pump room and an electrical room. The pump room will house the pump, and associated pipe and fittings to comply with required design standards. An additional area for a chemical storage tank and dosing pumps will be included for potential future use.

9.2 Water Level [503.03.c.ii]

Provide a brief description of the means for measuring the water level in the well:

The water level will be measured with a submersible level transducer that will be installed within the pump chamber in appropriately sized conduit, and at least one spare conduit will be installed. The transducer will be connected to the SCADA system to provide accessible water level data.

9.3 Well Pump [503.03.c.iii]

Include information on the proposed or planned pump, including the pump curve:

The proposed pump is a Flowserve vertical turbine 12EHL/12-stage pump which will provide 1,000 gpm at the Main Zone high-head condition. Pumptech provided the pump selection and curves from Flowserve. The pump curve and calculations are included in Appendix G.

9.4 Controls [503.03.c.iv]

This includes but is not limited to system control and data acquisition, variable frequency drive, and other manual or automated controls within the well house:

The new well house will require additional electrical instrumentation, and control systems including lighting, control systems, SCADA system, alarms, safety switches, generator with a transfer switch, and a variable frequency drive. The well will record flow and water level through the SCADA telemetry system. Additionally, the well will have emergency shutoffs including an automatic high-pressure switch and a manual emergency shutoff.

9.5 Piping and Appurtenances [503.03.c.v]

including but not limited to sample taps, discharge piping, flow meters, check valves, and pressure gauges.

Describe the receiving system for the pump to waste volume of water including an evaluation of the capacity of the receiving system and, if applicable, provide documentation that the system owner will accept the estimated volume of water and any limitations the owner places upon that acceptance

The well house outline in Appendix E displays the preliminary piping layout. The pump to waste system will pump out the side of the building and to the site drainage. The final design will address how the site drainage will be conveyed to local drainage systems. We do not anticipate retaining drainage water onsite in the final site design.

9.6 Casings and Well Caps [503.03.c.vii]

Describe the anticipated casing and well cap type and materials.

Walter M. Steed
W. M. Steed & Associates
5341 West Torana Drive
Meridian, ID 83646

BOISE ID 837

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