



Town Of Mammoth

NOTICE OF SPECIAL MEETING OF THE TOWN COUNCIL OF THE TOWN OF MAMMOTH AND MAMMOTH MUNICIPAL PROPERTY CORPORATION TUESDAY, SEPTEMBER 13, 2022 7:00 P.M.

Pursuant to A.R.S. § 38-431.02(B), notice is hereby given to the members of the Town Council and to the general public that the Town Council will hold a Special Town Council Meeting which is open to the public on Tuesday, September 12, 2022 at the Mammoth Community Center located at 101 W. 5th Street, Mammoth, Arizona. The Town Council may hold an Executive Session, A.R.S. § 38-431.03(A)(3) and (4) for legal advice, which will not be open to the public, to discuss any Agenda items set forth below.

- 1. Call to Order
- 2. Pledge of Allegiance
- 3. Roll Call
 - A. Possible consideration to excuse Councilmember(s) from Meeting pursuant to Mammoth Town Code 2.04.3
- 4. CALL TO THE PUBLIC
 - Pursuant to A.R.S. 38-341 (H)

A public body may make an open call to the public during a public meeting, subject to a three-minute limitation to allow individuals to address the public body on any issue within the jurisdiction of the public body. At the conclusion of an open call to the public, individual members of the public body may respond to criticism made by those who have addressed the public body, may ask staff to review a matter or may ask that a matter be put on a future agenda. However, members of the public body shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action.

- 5. SIGN DOCUMENT:
 - A. APPROVE RESOLUTION REQUIRED FOR \$500,000 GRANT FROM USDA.

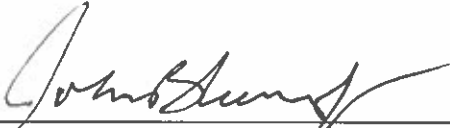
Motion: Approve and sign the required grant resolution
 Motion: 1st _____ 2nd _____
 MPC Action: Passed Defeated Tabled No Action Taken

Handicapped individuals with special accessibility needs may contact the ADA Coordinator for the Town of Mammoth at (520) 487-2331 (V/TDD)

6. A. UPDATE ON WATER EMERGENCY AND WATER PROJECT

7. ADJOURN

The undersigned hereby certifies that a copy of this notice was posted at the Mammoth Town Hall on September 9, 2022 by 5:00 p.m.



John Schempf, Interim Town Clerk

Copies of the agenda are available for public inspection at the Mammoth Town Hall and the Mammoth Public Library. Persons with disabilities needing accommodations should contact the Mammoth Town Hall coordinator at (520) 487-2331. If possible, such requests should be made 72 hours in advance.

RESOLUTION OF MEMBERS OR STOCKHOLDERS

TOWN OF MAMMOTH MUNICIPAL PROPERTY CORP

(Name of Association)

PO BOX 130
Mammoth, AZ 85618

(Address, including Zip Code)

RESOLVED, that the Governing Board of this Association be and it hereby is authorized and empowered to take all action necessary or appropriate —

1. To obtain for and on behalf of the Association through the United States Department of Agriculture (USDA) or any other Governmental agency:
 - (a) A loan in a sum not to exceed \$ _____;
 - (b) A grant in a sum not to exceed \$ 500,000 _____;
 to be advanced by the lender or grantor in one or more advances at such time or times as may be agreed upon.
2. In case of a loan or grant or both -
 - (a) For the execution of such application or applications (including exhibits, amendments and/or supplements thereto) as may be required;
 - (b) For the execution and delivery to the lender or grantor of all such written instruments as may be required in regard to or as evidence of such loan or grant; and
 - (c) In its judgment to carry out the terms of this resolution.
3. And in case of a loan -
 - (a) To obligate this Association for the repayment of the loan at such rates of interest and on such other terms and conditions as the Governing Board shall deem proper;
 - (b) To pledge, hypothecate, mortgage, convey, or assign property of this Association of any kind and in any amount now owned or hereafter acquired, as security for any or all obligations (past, present and/or future) of this Association to such lender; and
 - (c) From time to time to pay, extend, or renew any such obligations.

CERTIFICATION

I, the undersigned, as Secretary _____ of the above named Association, hereby
(Secretary) (Acting Secretary)

certify that said Association on the 13th _____ day of September _____, 2022 , had _____
(Number)

Board Members _____; that _____ of these
(members) (stockholders) or (shares of voting stock outstanding)

constituted a quorum; that _____ said members or stockholders or shares of voting stock were present at a meeting

of the members or stockholders duly called and held on the 13th _____ day of September _____, 2022 ;

that the foregoing resolution was adopted at such meeting by the affirmative vote of _____ said members or stockholders or shares of voting stock; and that said resolution has not been rescinded or amended in any way.

Dated this day 13th _____ of September _____, 2022 .

Secretary of Mammoth Municipal Property Corporation

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0575-0015. The time required to complete this information collection is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Application for Federal Assistance SF-424	
* 1. Type of Submission:	
<input type="checkbox"/> Preapplication	<input type="checkbox"/> Application
<input type="checkbox"/> Changed/Corrected Application	
* 2. Type of Application:	
<input type="checkbox"/> New	<input type="checkbox"/> Continuation
<input checked="" type="checkbox"/> Revision	
* If Revision, select appropriate letter(s):	
Other (Specify)	
* 3. Date Received:	
Completed by Grants.gov upon submission	
4. Applicant Identifier:	
5a. Federal Entity Identifier:	
5b. Federal Award Identifier:	
State Use Only:	
6. Date Received by State:	7. State Application Identifier: N A
8. APPLICANT INFORMATION:	
* a. Legal Name: Town of Mammoth Municipal Property Corporation	
* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. UEI:
*****2830	GNQ3KZCET649
d. Address:	
* Street 1:	PO Box 130
Street 2:	
* City:	Mammoth
County/Parish:	Pinal
* State:	Arizona
Province:	
* Country:	USA: UNITED STATES
* Zip / Postal Code:	85618
e. Organizational Unit:	
Department Name:	Division Name:
f. Name and contact information of person to be contacted on matters involving this application:	
Prefix:	* First Name: John
Middle Name:	
* Last Name:	Schempf
Suffix:	
Title:	COO
Organizational Affiliation:	
* Telephone Number: 520.487.2331	Fax Number:
* Email: j.schempf@townofmammoth.com	

Application for Federal Assistance SF-424

9. Type of Applicant 1 - Select Applicant Type:

Non-Profit Organization

Type of Applicant 2- Select Applicant Type:

Type of Applicant 3- Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

11. Catalog of Federal Domestic Assistance Number:

10.770

CFDA Title:

Water and Waste Disposal Loans and Grants (Section 306C)

* 12. Funding Opportunity Number:

* Title:

13. Competition Identification Number:

Title

14. Areas Affected by Project (Cities, Counties, States, etc.):

Mammoth

Add Attachments

Delete Attachments

View Attachments

* 15. Descriptive Title of Applicant's Project:

Water 2020 - Emergency Booster Pump Station \$500,000 additional funding.

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed

Add Attachments

Delete Attachments

View Attachments

17. Proposed Project:

* a. Start Date

* b. End Date

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="\$7,976,790.00"/>
* b. Applicant	<input type="text"/>
* c. State	<input type="text"/>
* d. Local	<input type="text"/>
* e. Other	<input type="text"/>
* f. Program Income	<input type="text"/>
* g. TOTAL	<input type="text" value="\$7,976,790.00"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- a. This application was made available to the State under the Executive Order 12372 Process for review on
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (if "Yes", provide explanation.)**

Yes No

If "Yes, provide explanation and attach.

Add Attachments

Delete Attachments

View Attachments

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:
Middle Name:
* Last Name:
Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

SUBSEQUENT APPLICATION - WEP

APPLICANT: Mammoth, Town of MPC Contact: John Schempf, Town Mgr. Telephone: (520) 487-2331 Ext. 369.0135 Email: j.schempf@townofmammoth.com Address: 125 N. Clark St., PO Box 130 Mammoth, AZ 85618		ENGINEER: Bowman Consulting Group, LTD Contact: Chad Crockett, PE Telephone: (928) 432-8544 Ext. Email: ccrockett@bowmanconsulting.com Address: 305 E. 4th Street Safford, AZ 85546 www.bowmanconsulting.com		AGENCY: USDA Rural Development Contact: Robert.Lanford Telephone: (602) 280-8748 Ext. Email: robert.lanford@usda.gov Address: 230 N 1st Ave., Suite 206 Phoenix, AZ 85003		
CASE#: 02-011-0693105552		FUNDING:		FILE POSITIONS:		
DUNS#: 117752200		RD Loan1: \$ 500,000		1. Processing checklist, Project Summary, Underwriting, User Rate Info, Financials		
SAM/CAGE#: GNQ3KZCT649		RD Loan2: \$ 0				
Expiration	1st Year 1/11/22	RD Grant 1: \$ 6,976,790		2. 1940-1, Grant Agreement, CPAP status screen		
	2nd Year	RD Grant 2: \$ 500,000		3. RR's/email, CPLC, Intergovernmental, Application		
	3rd Year	CDBG:		4. Correspondence		
COUNTY: Pinal		Applicant:		5. Closing Docs, Organizational Docs, LOC's, Loan Resolutions, Legal Documents		
TYPE OF FACILITY		Other:		6. Engineering Documents		
<input checked="" type="checkbox"/> WATER <input type="checkbox"/> SEWER		Other:		7. Insurance, Environmental (or in Env. File)		
PROJECT DESCRIPTION: Booster Pump Station emergency rebuild (Add'l \$500,000 grant)		TOTAL \$ 7,976,790		8. Pictures		
Item # - File Pos.	Document/Action & Reference (APPLICANT / CONSULTANTS)	Date	Item # - File Pos.	Document/Action & Reference (USDA - RD / OGC)	Date	
1 - 3	Subsequent Application SF 424/Letter		A - 3	Subsequent Application Processing Conference		
2 - 1	Current Financial Statements/Audits		B - 3	Check SAM/CAGE#/ Debarment / CAIVRS		
3 - 1	Proposed Budget Operating Budget unchanged	N/A	C - 1	Input Application into CPAP		
4-7/EF	Environmental Letters (if scope changes)		D - 6	SO concur w/ PER Amendment (if applicable)		
5 - 6	PER Amendment (if scope changes)		E-7EF	SO concur w/ ER Amendment (if applicable)		
6-7/EF	Environmental Amendment (if scope changes)		F - 3	Check SAM/CAGE#/ Debarment / CAIVRS		
7 - 6	ADEQ Approval of PER Amendment (if applicable)ATC	9/6/22	G - 1	AO completes CPAP/Underwriting - notify SO		
8 - 5	ROW/Easements/Prelim Title (if scope changes)		H - 5	AO scans sub app docs to SO w/ draft LOC Amend.		
9 - 5	Letter of Intent to meet Conditions RD 1942-46		I - 1	Project Summary	AO	
10 - 5	Subsequent Loan Resolution/ Security Agreement	RB 1780-27(PB)			N/A	SE
		RB 1780-28(NP)			N/A	SO
		Certification - Sign at Closing		J - 3	Loan Committee - Approval	-
11-7EF	Increase in Fidelity Insurance-subsequent Loan	N/A	K - 5	LOC Amendment		
12 - 3	Commitment of Other project funds	N/A	L - 2	Obligation - sub funds RD 1940-1 / CPAP/NITC		
13 - 2	EFT setup for subsequent funding NITC/EFT screen	APP		M - 4	SO - Project Announcement/Notify LAPAS	
		AO				
14 - 4	Interim Financing - subsequent loan Bridge Loan - ACF	Bank		N - 4	SO - Notify Applicant of Funding Approval	
		AO				
15 - 2	Subsequent Grant Agreement (cumulative) RB 1780-12	APP		O - 5	Pre-Closing Review - ID guide 2k Draft Closing Docs/Bond/note (subsequent loan)	
		AO				SO
16 - 5	Applicant executes Loan Resolution Certification (if subsequent loan)	N/A		Q - 3	Re-verify Debarment /CAGE # www.sam.gov	
				R - 5	Closing Instructions to Title Co./Attorney (NP)	
17 - 5	Closing Docs (subseq):bond/note,UCC,DOT,HUD1			S - 4	Evidence of Bond/Note/PAD to FO (subsequent)	
18 - 2	Executed PAD Agreement (if subsequent loan)	N/A		T - 4	Loan Closing memo to SO - ID guide 2k w/ 9c	
19 - 5	ALTA Title Report (NP) (subsequent loan)	N/A		U - 4	Final Closing - SO memo (subsequent)	
20 - 5	Final Opinion Counsel(PB) Applicants Attorney (NP)			SF	Update CPAP for servicing	

Initial when all checklist items on this page complete _____



EMERGENCY DECLARATION NO. 2022-01

DECLARATION OF THE MAYOR OF THE TOWN OF MAMMOTH, ARIZONA, DECLARING A TOWN STATE OF EMERGENCY

WHEREAS, On August 22, 2022, the Town of Mammoth's Domestic Water Delivery System experienced a water transmission pumping failure; and

WHEREAS The resulting Domestic Water Delivery failure effected areas in the Town of Mammoth and in the Little Hollywood Subdivision which left these residents without potable water; and

WHEREAS, Potable Domestic Water Service has not been re-established for these residents as of August 25, 2022; and

WHEREAS, the Town of Mammoth has established locations within the Town to supply bottled water for the Town residents who do not have potable water or water service at their residence and have established public restrooms and showering stations at the Town Swimming Pool and will provide other alternatives when available; and

WHEREAS, due to an extreme public health emergency and hazard, an emergency now exists in the Town of Mammoth, the Pinal County Emergency Response and Recovery Plan is hereby activated and is in effect until further notice; and

WHEREAS, pursuant to Arizona Revised Statutes §26-307 to proclaim that a local emergency exists and, thereafter, to impose all necessary regulations to preserve the peace and order of the Town; and

THEREFORE, BE IT RESOLVED, the by Mayor of Town of Mammoth hereby declares a Local State of Emergency for the Town of Mammoth.

**NOW, THEREFORE, IT IS HEREBY PROCLAIMED AND DECLARED AS
FOLLOWS:**

1. A local emergency exists in the Town of Mammoth, Arizona due to the failure of the Domestic Water System which endangers life, health, or property within the Town.
2. These emergency regulations shall remain in full force and effect until such time as the

Handicapped individuals with special accessibility needs may contact the ADA Coordinator for the Town of Mammoth at (520) 487-2331 (V/TDD)

emergency declared herein abates and is withdrawn, or a subsequent Proclamation is issued with amendments.

3. In accordance with ARS §26-307(B), this Proclamation shall be effective when a copy thereof is filed in the office of the Town Clerk. Existing laws, ordinances, orders, rules, and regulations in conflict with the same are hereby suspended during the time and to the extent that they conflict.

IT IS FURTHER DELCARED THIS EMERGENCY DECLARATION shall remain in effect until Further Order of the Mayor or the Town Council of Mammoth Arizona.

DECLARED AS AN EMERGENCY MEASURE BY THE MAYOR OF THE TOWN OF MAMMOTH, ARIZONA this 25 day of August 2022.

TOWN OF MAMMOTH



PATRICIA "PATSY" ARMENTA
MAYOR TOWN OF MAMMOTH

ATTEST:



JOHN SCHEMPF, INTERIM TOWN CLERK

APPROVED AS TO FORM:



STEPHEN R. COOPER, TOWN ATTORNEY

TOWN OF MAMMOTH

AGENDA ACTION FORM

AGENDA ITEM NO: _____	COUNCIL MEETING DATE: <u>9/15/22</u>
-----------------------	--------------------------------------

Agenda Action Forms must be submitted to the Town Clerk no later than 10 days prior to Town Council Meeting. Agenda Action Forms are subject to review by Mayor, Town Manager and/or Town Clerk for completion and accuracy.

NAME OF PERSON PROPOSING ITEM: Patsy Armenta DATE SUBMITTED: 8-26-22

BRIEF DESCRIPTION/SUMMARY OF THE AGENDA ITEM (AS YOU WOULD LIKE IT TO APPEAR):
a discussion & ^{on} action on our water emergency & set a date to start water project (bids, etc.)

Motion: _____

FISCAL IMPACT: _____ (FISCAL IMPACT ON CURRENT BUDGET MUST BE COMPLETED)

TYPE OF ACTION REQUESTED: _____ FORMAL ACTION-MOTION
 _____ INFORMATIONAL/DISCUSSION ONLY _____ OTHER
 _____ RESOLUTION/ORDINANCE

Signature of Person Requesting Action _____

TOWN CLERK'S RECOMMENDATION FOR PLACEMENT ON THE AGENDA: _____ YES _____ NO

RECOMMENDATION: _____

 TOWN MANAGER/Town Clerk DATE (Section Completed by Staff)

MAYOR'S APPROVAL FOR PLACEMENT ON THE AGENDA: _____ YES _____ NO

Patsy Armenta
 MAYOR DATE 8-26-22 (Section Completed by Staff)

Bowman

Booster Station Design Report

Town of Mammoth

Mammoth Water System

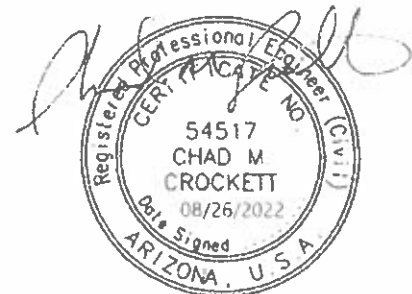
Bowman

305 E. 4th Street

Safford, Arizona 85546

928.428.3898 | bowman.com

August 26, 2022



Expires 6/30/2025

Bowman

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1.0 Purpose

This report is submitted in fulfillment of the requirements of Arizona Administrative Code R18-5-505(B)(1), which states that an application for approval to construct shall be submitted along with a design report that describes the proposed construction and basis of design. The report provides design data and other pertinent information that defines the work to be done and establishes the adequacy of the design. In addition, the design report and application are to be accompanied by the Improvement Plans

2.0 Introduction

The Town of Mammoth owns and operates their Public Water System (PWS AZ0411018) and provides potable water to residents of the Town of Mammoth, along Highway 77 in Pinal County, Arizona. The Town of Mammoth is located approximately 42 miles northeast of Tucson, AZ

The Town of Mammoth is split geographically into two main parts. The southern part of town has generally older construction and is mostly higher in elevation. The northern part of town has generally newer construction and is mostly lower in elevation. However, in both the north and south parts of town, sections on the east sides near the river are lower in elevation than sections west of State Hwy 77. Figure 1 shows the approximate Town of Mammoth water service area and the local town limits, as well as the existing water system water mains.

The Town provides drinking water to the system by two active wells, Well #4 and Well #5. The Town of Mammoth is situated along the western bank of the San Pedro River, in Pinal County, Arizona, which intermittently flows from the southeast towards the northwest. The water service area encompasses approximately 1.25 square miles, and has a total of 506 service connections, consisting of 461 residential meters and 45 commercial meters. The Town also has 3 other wells. Well #1, Well #2 and Well #3 are currently inactive. The water supply for the Town of Mammoth water system depends entirely on groundwater from wells located near the San Pedro River and both of them have water depths of approximately 50 feet each.

The storage for the water system is mainly contained in two ground level water storage tanks. Both tanks are 250,000-gallon tanks, with one built in 1984 and another in 2018.

There is a booster station that boosts water from the lower elevation northern tank (Tank 2) to the higher elevation southern tank (Tank 1). There are currently no wells in the southern section of town that supplies water to Tank 1. Therefore, the booster station pumps water to Tank 2 where it gets distributed to the southern section of town through waterlines and pressure reducing valves. The booster station is unreliable and is having issues with consistent operation and leaks.

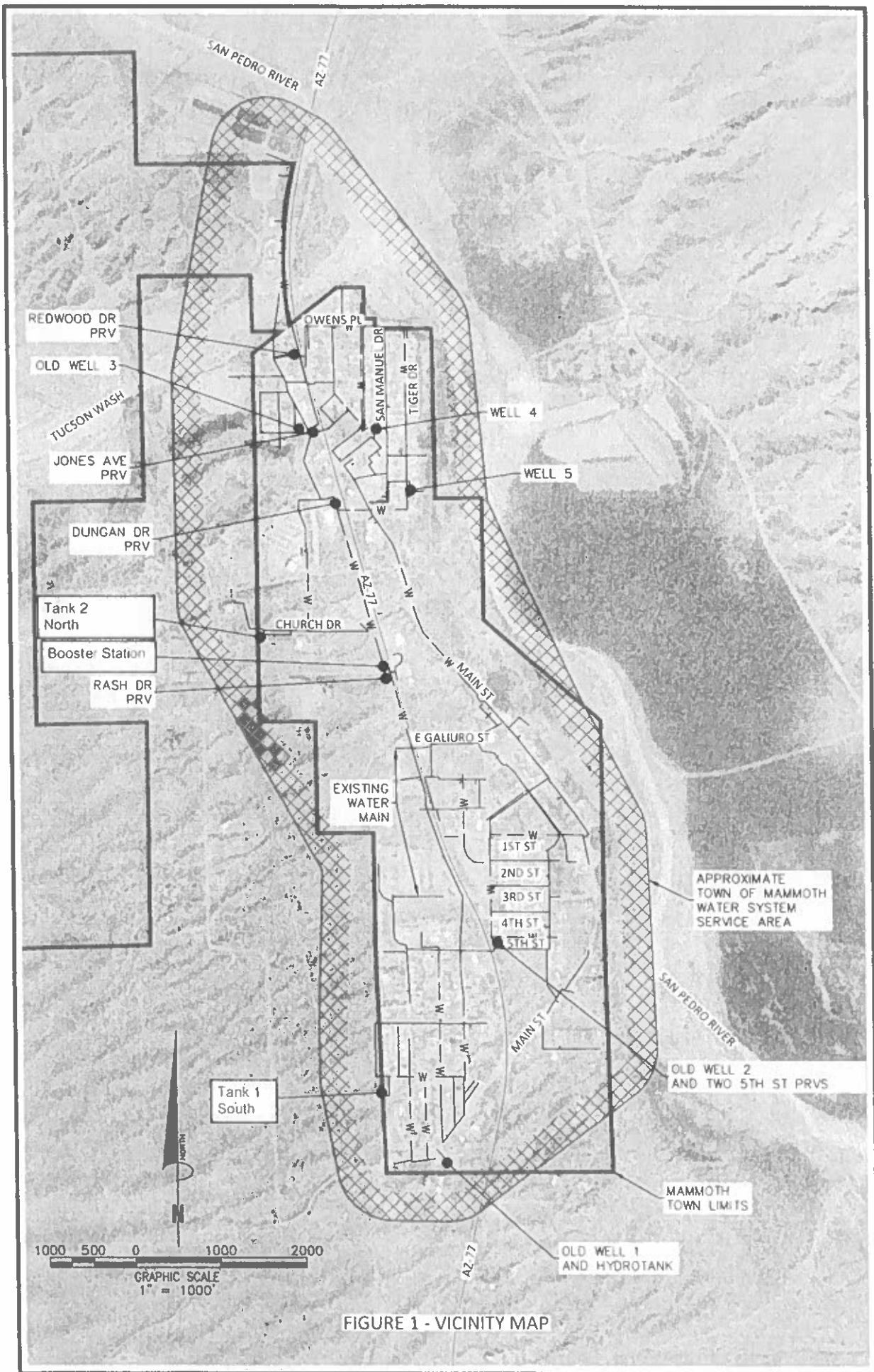


FIGURE 1 - VICINITY MAP

3.0 Scope of Work

The scope of work for the Town of Mammoth Water System Improvements consists of replacing the existing booster station. The Town is proposing to install an above ground booster station to the west of the existing booster station. The proposed booster station will be protected by an enclosed structure and fence around the site.

4.0 Existing Water System

Water for the Town of Mammoth Water System is pumped from the only two wells that are currently operating. Both wells are located in the northern section of town, and pump into a 250,000-gallon ground level water storage tank that was built in 1984 and is situated between the northern and southern sections of town. This tank is commonly referred to as "Tank 2".

The southern part of town is also served by a 250,000-gallon ground level water storage tank that was built in 2018, and this tank is located towards the southwest section of the southern part of town. This tank is commonly referred to as "Tank 1". The water for this tank is not able to be supplied directly by the same wells that fill Tank 2, as Tank 1 is higher in elevation than the downstream and lower in elevation northern section of town.

In order to provide water to Tank 1, a booster station is situated between the northern and the southern sections of town, at the northwest corner of State Hwy 77 and Rash Road. The duplex pumps deliver water from the Tank 2 and pipelines to the south, into Tank 1 and the southern pipelines. This booster station was installed in 1998, and has recently become problematic, requiring personnel to enter the 7' deep vault and manually turn the pumps on and off on a daily basis, and physically visiting Tank 1 and looking at the level indicator to determine when it is necessary to turn the booster pumps on.

5.0 Proposed Facilities

The proposed project includes installation of a new duplex booster station and approximately 97 feet of 8" diameter pipe, and all appurtenances for booster station installation. The booster pumps will be housed in an 18 ft x 15 ft CMU walled structure with an 8 ft roll up door and 4 ft entrance door.

The booster station that serves the southern section of town will be replaced. The new booster station will be a duplex station, utilizing VFD (Variable Frequency Drive) pumps and controls. The new booster station will be above ground, and easier to access than the current subsurface booster station. To control the new booster station, a SCADA system will be installed and made operational, with operational settings and control available from the Mammoth Town Hall. The SCADA system will initially only connect to the water system's new Booster Station and existing Tank 1. The SCADA system will be expandable so that wells and other tanks can be connected into the system and controlled as necessary in the future.

Construction materials shall meet all applicable AWWA Standards. All water pipes and fittings will have an NSF-PW Seal and will conform to NSF Standard 61. All construction materials used shall satisfy the lead-free requirements of AAC R18-5-504 and R18-4-101.

All water pipe for the project will consist of AWWA C900 DR18 PVC or PC350 DIP, or ASME/ANSI B36 10 Schedule 40 Steel, or DR9 HDPE.

The new Booster Station site will be fenced with a 6-foot-tall chain link fence with 3 strands of 4-point barbed wire per MAG Detail 160.

The Town of Mammoth booster station is in the FEMA Zone X area (Areas Determined to be outside the 0.2% annual chance floodplain). FEMA map has been provided in the Appendix for reference

6.0 Water System Demand

From a Water Quality Master Plan Final Report, prepared by NCS Engineers in 2013, the Town of Mammoth pumped an average of 241 acre-feet of water between 2002 and 2011. From the 2020 NCS report, in 2018, 67,762,100 gallons of water was reportedly pumped. However, the same report states that water losses in 2018 were 27,247,002 gallons, leaving 40,515,098 gallons billed to customers. The numbers from the NCS report put the average daily water use for the Town of Mammoth water system is approximately 111,000 gallons per day and around 77 gallons per minute.

The 2018 system demand and production data provided by the Town was an average day demand (ADD) of 129 gpm. The Town of Mammoth uses the Tucson Water Standards and has a peak day demand (PDD) of 293 gpm and a peak hour demand (PHD) of 322 gpm. The PDD was calculated as $1.8 \times \text{ADD}$ and the PHD was calculated as $\text{ADD} \times 3.15$.

7.0 Source Water and Storage Capacity

Wells #4 and #5 can provide 265 gpm and 200 gpm max, respectively. The wells are able to provide enough source to serve the PPD if storage was not available. The storage capacity of the Town of Mammoth has 2 storage tanks capable of 250,000 gallons each for a total of 500,000 gallons. The water is disinfected with the Horizon PT 90 Tablet Trichlor system (90 lbs. capacity) installed at both well sites. The system is set to maintain a minimum chlorine residual of 0.2 mg/L and a maximum of 0.6 mg/L.

As per the ARS R18-5-503, the Town has adequate storage. Storage Tanks #1 and #2 are approximately 40 feet in diameter and 32 feet in height with a water storage capacity of 250,000 gallons each. Tank #1 is located west of Rolfs Avenue at the elevation of approximately 2,630 feet and Tank #2 is located at the west end of Church Drive at a base elevation of approximately 2,544 feet.

8.0 Booster Station Performance

The duplex pump system used for the existing waterline to Tank 1 will fill the tank and also serve the southern portion of the Town of Mammoth. The booster station specified will utilize Grundfos BoosterPAQ Model Hydro MPC E 2CR95-2-2 Booster Station Skid or an approved equal. The skid will include 2 Grundfos CR 45-2 Vertical Multistage pumps with a design condition of 350 gpm at 142' of TDH with 100% pump operation and one standby. A generator will be provided at the site for backup.

This booster station is a replacement for the existing.

The Appendices of this design report includes shop drawings and pump information. This includes the pump curves and performance in regard to the Total Dynamic Head (TDH) for each pump.

9.0 Restrained Joint Calculations

The restrained joint tables on the plans are in accordance with Tucson Water Standard Detail SD-600. Using the Tucson Water Specifications, the restrained joints will be able to manage the forces caused by the 200 psi testing parameters.

10.0 Conclusion

The Town of Mammoth desires to create a reliable and safe water system for the town's residents and water customers. The ability to control the Booster operation will be a major improvement and time saver. The town's maintenance personnel will be able to work more on other pressing needs, rather than frequent emergency repairs related to the water system booster station.

11.0 Appendices
