



**BOARD OF TRUSTEES**  
**Regular Meeting**  
**June 14, 2023**  
**7:00 p.m.**

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL
4. APPROVAL OF AGENDA
5. PRESENTATIONS
6. PUBLIC HEARINGS
7. PUBLIC COMMENT: Restricted to three minutes regarding items on this agenda  
*Note: This is an opportunity for comments only, questions to the Board will not be answered at this time. For specific answers to questions, please call Township Hall (989-772-4600)*
8. CLOSED SESSION
9. REPORTS/BOARD COMMENTS
  - A. Current List of Boards and Commissions – Appointments as needed
  - B. Board Member Reports
10. CONSENT AGENDA
  - A. Communications
  - B. Minutes – May 24, 2023 – Regular Meeting
  - C. Accounts Payable
  - D. Payroll
  - E. Meeting Pay
  - F. Fire Reports
  - G. 1796 Mamie Street Water Service Franchise Agreement
11. NEW BUSINESS
  - A. Discussion/Action: (Smith) Approval of the Bid from Peerless Midwest for Well Exploration Activities
  - B. Discussion/Action: (Board of Trustees) Resumption of the Global Ends Discussion from the April 26th Meeting
12. EXTENDED PUBLIC COMMENT: Restricted to 5 minutes regarding any issue  
*Note: This is an opportunity for comments only, questions to the Board will not be answered at this time. For specific answers to questions, please call Township Hall (989-772-4600)*

13. MANAGER COMMENTS

14. FINAL BOARD MEMBER COMMENT

15. ADJOURNMENT

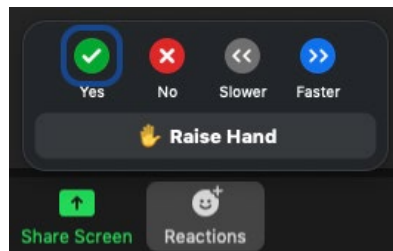
## Hybrid Meeting Instructions for the Charter Township of Union Board of Trustees Meeting

The public can view all Union Township meetings live by clicking on our [YouTube Channel](#). For those who would like to participate during public comment, you can do so via Zoom.

[Click here](#) to participate in the Zoom Meeting via computer or smart phone. (Meeting ID Enter “861 1599 5624” Password enter “926394”). Access to the electronic meeting will open at 6:50 p.m. and meeting will begin at 7:00 p.m.

Telephone conference call, dial (312-626-6799). Enter “861 1599 5624” and the “#” sign at the “Meeting ID” prompt, and then enter “926394” at the “Password” prompt. Lastly, re-enter the “#” sign again at the “Participant ID” prompt to join the meeting.

- All public comments for items on the agenda will be received during the Public Comment section of the Agenda and any issue not on the agenda will be received during the Extended Public Comment section of the Agenda.
- Computer/tablet/smartphone audience: To indicate you wish to make a public comment, please use the “Reactions” icon. **Next, click on the “Raise Hand” icon** near the bottom right corner of the screen.



- **To raise your hand for telephone dial-in participants, press \*9.** You will be called on by the last three digits of your phone number for comments, at which time you will be unmuted by the meeting moderator.
- Please state your name and address for the minutes and keep public comments concise.

You will be called upon once all in-person comments have been received, at which time you will be unmuted by the meeting moderator.

Persons with disabilities needing assistance should call the Township office at (989) 772-4600. Persons requiring speech or hearing assistance can contact the Township through the Michigan Relay Center at 711. A minimum of one (1) business day of advance notice will be necessary for accommodation.

## Board Expiration Dates

Planning Commission Board Members (9 Members) 3 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	James	Thering	11/20/2024
2-Chair	Phil	Squatrito	2/15/2026
3-Vice Chair	Ryan	Buckley	2/15/2025
4-Secretary	Doug	LaBelle II	2/15/2025
5 - Vice Secretary	Tera	Albrecht	2/15/2024
6	Stan	Shingles	2/15/2024
7	Paul	Gross	2/15/2025
8	Nivia	McDonald	2/15/2026
9	Jessica	Lapp	2/15/2026
Zoning Board of Appeals Members (5 Members, 2 Alternates) 3 year term			
#	F Name	L Name	Expiration Date
1- PC Rep	Ryan	Buckley	2/15/2025
2 -	Richard	Barz	12/31/2025
3-Chair	Liz	Presnell	12/31/2025
4 -	Vacant		12/31/2023
5 -	Eric	Loose	12/31/2024
Alt. #1	David	Coyne	12/31/2024
Alt #2 (BOT Representative)	Jeff	Brown	11/20/2024
Board of Review (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Doug	LaBelle II	12/31/2024
2	Sarvjit	Chowdhary	12/31/2024
3	Bryan	Neyer	12/31/2024
Alt #1	Randy	Golden	12/31/2024
Construction Board of Appeals (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Colin	Herren	12/31/2023
2	Joseph	Schafer	12/31/2023
3	Andy	Theisen	12/31/2023
Hannah's Bark Park Advisory Board (2 Members from Township) 2 year term			
1	Mark	Stuhldreher	12/31/2024
2	John	Dinse	12/31/2023
Chippewa River District Library Board 4 year term			
1	Ruth	Helwig	12/31/2023
2	Lynn	Laskowsky	12/31/2025



## Board Expiration Dates

EDA Board Members (9 Members) 4 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	Bryan	Mielke	11/20/2024
2	Thomas	Kequom	4/14/2027
3	James	Zalud	4/14/2027
4	Richard	Barz	2/13/2025
5	Robert	Bacon	1/13/2027
6	Marty	Figg	6/22/2026
7	Sarvjit	Chowdhary	6/22/2027
8	Jeff	Sweet	2/13/2025
9	David	Coyne	3/26/2026
Mid Michigan Area Cable Consortium (2 Members)			
#	F Name	L Name	Expiration Date
1	Kim	Smith	12/31/2025
2	vacant seat		
Cultural and Recreational Commission (1 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1	Robert	Sommerville	12/31/2025
Sidewalks and Pathways Prioritization Committee (2 year term -PC Appointments)			
#	F Name	L Name	Expiration Date
1 - BOT Representative	Kimberly	Rice	11/20/2024
2 - PC Representative	Stan	Shingles	2/15/2024
3 - Township Resident	Jeff	Siler	8/15/2023
4 - Township Resident	vacant seat		10/17/2022
5 - Member at large	Phil	Hertzler	8/15/2023
Mid Michigan Aquatic Recreational Authority (2 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1-City of Mt. Pleasant	John	Zang	12/31/2023
2-City of Mt. Pleasant	Judith	Wagley	12/31/2022
1-Union Township	Stan	Shingles	12/31/2023
2-Union Township	Allison	Chiodini	12/31/2025
1-Mt. Pleasant Schools	Lisa	Diaz	12/31/2022
1-Member at Large	Mark	Stansberry	2/14/2025
2- Member at Large	Michael	Huenemann	2/14/2025

APPOINTMENT TO BOARDS & COMMISSIONS  
OF CHARTER TOWNSHIP OF UNION  
APPLICATION



Name: SARVJIT CHOWDHARY Date: 5/16/23  
Address: 774 SIDNERIDGE DRIVE  
Phone (home) (989) 779-2900 (cell) (989) 400-2688 (work) \_\_\_\_\_  
Email: savichowdhary@yahoo.com  
Occupation: Retired

Please select the board you are applying for:

- Zoning Board of Appeals      Must be a Union Township Resident  
 Board of Review                      Must be a Union Township Resident  
 Planning Commission                Must be a Union Township Resident  
 EDA    Must meet one of the following qualifications:  
  \_\_\_ Property owner in East or West DDA  
  \_\_\_ Resident in Union Township

OTHER                      \*Specify Board: ZONING Board of Appeal

Please state reason for interest in above board:

I am interested in this position. I want to  
involved with this position

Other information that you feel would be useful in your application review (i.e., past experience, past board membership, etc. A resume is encouraged with the application):

As I am involved with other Boards of  
the Union T/ship and want to serve this Board also

Signature: [Signature] Date: 5/16/23

**2023 CHARTER TOWNSHIP OF UNION**  
**Board of Trustees**  
**Regular Meeting Minutes**

A regular meeting of the Charter Township of Union Board of Trustees was held on May 24, 2023, at 7:00 p.m. at the Union Township Hall.

**Meeting was called to order at 7:00 p.m.**

**Brown** moved **Bills** supported to appoint Treasurer Rice as the temporary clerk. **Vote: Ayes: 5 Nays: 0. Motion carried.**

**Roll Call**

Present:

Supervisor Mielke, Treasurer Rice, Trustee Bills, Trustee Brown, and Trustee Thering

Excused:

Clerk Cody and Trustee Smith

**Approval of Agenda**

**Bills** moved **Brown** supported to approve the agenda as presented. **Vote: Ayes: 5 Nays: 0. Motion carried.**

**Presentation**

- a. Frank Engler, Isabella County Commissioner, gave county updates.

**Public Meeting/Hearing**

- a. Jennifer Graham from Gourdie Frasier gave a presentation on the Drinking Water Revolving Funds Project Plan  
Discussion by the Board

**Public Q&A**

Open: 7:42 p.m.

No comments were offered

Closed: 7:42 p.m.

**Public Comment**

Open: 7:43 p.m.

Erik Spindler, Morey Foundation, commented on the appeal to the sewer fee as it relates to the gymnastic facility.

Closed: 7:46 p.m.

**Reports/Board Comments**

**A. Current List of Boards and Commissions – Appointments as needed.**

**Bills** moved **Brown** supported to reappoint Sarjit Chowdhary for a 4-year term to the Economic Development Authority Board with the term expiring 6/22/2027. **Vote: Ayes: 5 Nays:0. Motion carried.**

**B. May Monthly Activity Report**

**C. Planning Commission, EDA, Sidewalks, and ZBA updates by Community and Economic Development Director**

#### **D. Board Member Reports**

Bills – Gave updates on the May 16<sup>th</sup> Isabella County Board of Commissioners meeting and the May 17<sup>th</sup> Council of Governance meeting.

Mielke – Gave updates on the May 10<sup>th</sup> 2023 2% Distribution meeting and the May 24<sup>th</sup> Intergovernmental Affairs Liaison meeting.

#### **Consent Agenda**

- A. Communications
- B. Minutes – May 10, 2023 – Regular Meeting
- C. Accounts Payable
- D. Payroll
- E. Meeting Pay
- F. Fire Reports

**Bills** moved **Brown** supported to approve the consent agenda as presented. **Vote: Ayes: 5. Nays: 0. Motion carried.**

#### **New Business**

##### **A. Discussion/Action: (Smith) Resolution in Support of the Drinking Water Revolving Loan Fund Project Plan**

**Brown** moved **Thering** supported to approve a Resolution Adopting a Final Project Plan for Water System Improvements through the Drinking Water State Revolving Fund (DWSRF) and designating Kim Smith, Public Services Director as the Authorized Project Representative. **Roll Call Vote: Ayes: Mielke, Rice, Bills, Brown, and Thering. Nays: 0. Motion carried.**

##### **B. Discussion/Action: (Stuhldreher) Consideration of an appeal of a Sewer Permit Fee for the Morey Foundation**

**Thering** moved **Bills** supported to grant the appeal of the sewer hookup fee contingent on Union Township receiving a letter from the owner authorizing Mr. Spindler to act on their behalf to appeal the sewer hookup fee. **Vote: Ayes: 5 Nays: 0. Motion carried.**

##### **C. Discussion/Action: (Nanney) Consideration of Artwork for Outdoor Fitness Court at McDonald Park**

**Brown** moved **Bills** supported to select the “Croft Artwork” as the preferred Local Artist submittal to enhance the new McDonald Park outdoor fitness court. **Vote: Ayes: 5. Nays: 0. Motion carried.**

##### **D. Discussion/Action: (Stuhldreher) Policy Governance 2.3 Compensation & Benefits**

Discussion by the Board



**E. Discussion/Action: (Stuhldreher) Policy Governance 3.10 Cost of Governance**

Discussion by the Board

**EXTENDED PUBLIC COMMENT: RESTRICTED TO 5 MINUTES REGARDING ANY ISSUE**

Open: 9:10 p.m.

No comments were offered.

Closed: 9:10 p.m.

**MANAGER COMMENTS**

- Met with Mary Senter from CMU to provide a scope of service and cost for a citizen survey.
- Commented on the success of the Township drive for the Care Store.

**FINAL BOARD MEMBER COMMENTS**

Rice – Commented on the volume of items received for the Care Store. Thanked Tera and Amy for the Township drive.

Bills – Commented on material recycling.

Brown – Commented on the usage of the pump truck. Wished everyone a great holiday weekend.

Mielke – Expressed his thoughts on the sewer permit fee debate. Requested education on the difference between REU's verses meter size associated with hookup fees.

**ADJOURNMENT**

**Bills** moved **Brown** supported to adjourn the meeting at 9:26 p.m. **Vote: Ayes: 5 Nays: 0. Motion carried.**

**APPROVED BY:**

\_\_\_\_\_  
**Lisa Cody, Clerk**

\_\_\_\_\_  
**Bryan Mielke, Supervisor**

*(Recorded by Tera Green)*

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Bank 101 POOLED CHECKING						
06/06/2023	101	611 (E)	00146	CONSUMERS ENERGY	2495 E DEERFIELD RD 1876 S LINCOLN RD 1876 E PICKARD RD 2188 E PICKARD RD 1776 E PICKARD RD 2180 S LINCOLN RD 2010 S LINCOLN RD 2424 W MAY ST 4520 E RIVER RD 1605 SCULLY ROAD 800 CRAIG HILL 5319 E AIRPORT RD 1046 S MISSION ST 1633 S LINCOLN RD 4511 E RIVER RD 2279 S MERIDIAN RD PUMP HOUSE 2279 S MERIDIAN RD STREET LIGHT(S) 2010 S LINCOLN RD L4 48858 LED LIGHT	213.98 17.84 156.61 82.52 103.17 35.70 753.51 591.21 114.90 59.57 51.79 94.79 149.32 201.55 12,543.15 108.06 1,538.86 1,695.77 63.73 325.27 <u>18,901.30</u>
06/06/2023	101	612 (E)	00146	VOID Void Reason: Created From Check Run Process		
06/06/2023	101	613 (E)	01105	MASTERCARD	MASTERCARD CRAWFORD MASTERCARD BEBOW MASTERCARD WALDRON MASTERCARD DEARING MASTERCARD MCBRIDE MASTERCARD FUSSMAN MASTERCARD STUHLBREHER MASTERCARD HOHLBEIN MASTERCARD OCKERT MASTERCARD THEISEN MASTERCARD SOMMER MASTERCARD COFFELL MASTERCARD TEALL	22.99 46.00 476.20 420.20 493.39 19.98 304.76 374.58 72.90 123.99 61.42 677.44 102.00 <u>3,195.85</u>
06/06/2023	101	614 (E)	00527	PITNEY BOWES GLOBAL FINANCIAL LLC	POSTAGE METER LEASE-2ND Q 2023	462.75
06/09/2023	101	615 (E)	00146	CONSUMERS ENERGY	5228 S ISABELLA RD	8,008.18
05/31/2023	101	24597	01857	JBS CONTRACTING	BD PAYMENT REFUND-PER BOARD DECISION 5/2	43,417.99
06/14/2023	101	24598	01358	21ST CENTURY MEDIA-MICHIGAN	NOTICE FOR MANHOLE REHAB BIDS NOTICE FOR WATER SYSTEM PROJ PLAN (DWSRF) BOARD MEETING SUMMARIES-APR 2023	173.80 247.20 173.80 <u>594.80</u>
06/14/2023	101	24599	00020	JAMES ALWOOD	WELL SITE LEASE - MAY 2023	489.00
06/14/2023	101	24600	01703	AMAZON CAPITAL SERVICES	NEW PODIUM FOR BOARD ROOM DOG WASTE STATION MOBILUX GREASE FUSES&WIRELESS MOUSE FOR WWTP	369.90 648.45 958.05 38.95 <u>010 38.95</u>



Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
06/14/2023	101	24623	00257	GOURDIE-FRASER, INC.	PUMP STN #1 PROJECT-CONSTR ADMINISTRATIO EGLE SOURCE WTR PROTECT GRANT-RESEARCH EGLE CWSRF PROJECT PLAN-LOAN APPLICATION RIVER RD CONTROL BLDG-HIGH SERVICE PUMP- SIDEWALK EXTENSIONS-CONSTRUCTION PHASE/A	9,450.00 736.25 8,662.50 2,625.00 <u>1,050.05</u> 22,523.80
06/14/2023	101	24624	00261	GRAINGER	LAB EQUIPMENT AND SUPPLIES COGGED V BELT	83.96 <u>514.70</u> 598.66
06/14/2023	101	24625	00262	GRAND TRAVERSE RUBBER SUPPLY	6" WATER HOSE, CAMLOCK, CLAMPS	557.76
06/14/2023	101	24626	01746	TERA GREEN	MILEAGE FOR DAILY BANKING	42.44
06/14/2023	101	24627	01721	HYDROCORP	CROSS CONNECT CONTROL PRG/NON-RESIDENTIA CROSS CONNECT CNTRL PRG/RESIDENTIAL-MAY	950.00 <u>2,650.00</u> 3,600.00
06/14/2023	101	24628	01843	INTEGRAL BUILDERS, LLC	BD PAYMENT REFUND-JOB CANCELLED	219.50
06/14/2023	101	24629	00324	ISABELLA CORPORATION	PUMP STN #1 UPGRADE-PROG PMT #2 WATER MAIN REPAIR@RIVER RD/127 OVERPASS	313,297.50 <u>11,715.00</u> 325,012.50
06/14/2023	101	24630	01094	ISABELLA COUNTY MATERIAL RECOVERY F	DISPOSAL OF OIL	5.00
06/14/2023	101	24631	00333	ISABELLA COUNTY ROAD COMMISSION	2023 BRINE CONTRACT	22,198.90
06/14/2023	101	24632	01496	K&H CONCRETE CUTTING OF LANSING INC	WATER MAIN REPAIR-ASPHALT CUTTING-RIVER/	200.00
06/14/2023	101	24633	01324	KENEWELL GROUP	BUSINESS CARDS FOR NEW ASSESSOR	79.02
06/14/2023	101	24634	01859	LINK UTILITY TECHNOLOGIES INC	WET WELL WIZARD W/2 INJECTORS WET WELL WIZARD W/2 INJECTORS WET WELL WIZARD W/1 INJECTORS	9,796.61 9,796.61 <u>6,869.23</u> 26,462.45
06/14/2023	101	24635	00001	M T A	ANNUAL MEMBERSHIP DUES 7/1/2023-06/30/20	7,537.54
06/14/2023	101	24636	00142	MICHIGAN OFFICE SOLUTIONS	PRINTER/COPIER SERV AGRMNT-JUN 2023	1,177.56
06/14/2023	101	24637	00422	MICHIGAN PIPE & VALVE-MT. PLEASANT	SNAKE PIT LITE DUTY BOX	32.00
06/14/2023	101	24638	00907	MID MICHIGAN CABLE CONSORTIUM	2023 1ST QTR FRANCHISE FEES	10,317.83
06/14/2023	101	24639	00128	CITY OF MT. PLEASANT	FIRE CONTRACT PAYMENT-3RD Q 2023	207,525.00
06/14/2023	101	24640	00494	NORTH CENTRAL LABORATORIES	MICRO SPIN BAR SILICONE & PLASTIC TUBING TESTING SUPPLIES/SOLUTIONS	41.05 768.78 <u>2,730.27</u> 3,540.10
06/14/2023	101	24641	00518	PEERLESS-MIDWEST, INC.	WELL #7 PUMP REPLACEMENT	19,551.69
06/14/2023	101	24642	00539	PRINTING SYSTEMS, INC	VOTER REGISTRATION CARDS	71.92
06/14/2023	101	24643	00559	RENT-RITE OF ALMA	PORTABLE RESTROOM@MCDONALD PARK 4/4-4/25 PORTABLE RESTROOM@MCDONALD PARK-APR 2023	256.96 <u>133.96</u> 390.92
06/14/2023	101	24644	01007	RITE-WAY ASPHALT PAVING	PATCH PAVEMENT AFTER WTR LEAK ON RIVER R	6,980.00
06/14/2023	101	24645	01654	TRACE ANALYTICAL LABORATORIES, INC.	SAMPLE HANDLING, STORAGE & DISPOSAL SAMPLE HANDLING, STORAGE & DISPOSAL	1,257.00 <u>012 28.00</u>

06/08/2023 04:20 PM  
 User: SHERRIE  
 DB: Union

CHECK REGISTER FOR CHARTER TOWNSHIP OF UNION  
 CHECK DATE FROM 05/25/2023 - 06/14/2023

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
						1,285.00
06/14/2023	101	24646	00668	UNITED PARCEL SERVICE	WATER SAMPLE SHIPPING	68.24
06/14/2023	101	24647	01013	USA BLUE BOOK	OPTI-PRO POLYMER DISPERSANT HACH FREE CHLORINE SWIFTEST WATER TESTING SUPPLIES	364.67 368.89 649.96
						<u>1,383.52</u>
06/14/2023	101	24648	01314	VERIZON WIRELESS	CELL PHONES 5-16-23 TO 6-15-23	393.21
06/14/2023	101	24649	01855	CURTIS WAGER	JAMESON HALL RENTAL-SEC DEP REFUND	250.00
06/14/2023	101	24650	00703	WASTE MANAGEMENT OF MICHIGAN, INC	DUMPSTER SERVICE TWP HALL-JUN 2023 DUMPSTER SERVICE JAMESON HALL-MAY 2023 DUMPSTER SERVICE MCDONALD PARK-JUN 2023 DUMPSTER SERVICE WWTP-JUNE 2023 DUMPSTER SERVICE SHOP-JUNE 2023 DUMPSTER SERVICE WTR PLANT-JUN 2023	63.88 111.94 137.66 247.64 45.44 45.89
						<u>652.45</u>
06/14/2023	101	24651	00710	WEBB CHEMICAL SERVICE	FERRIC CHLORIDE SOLUTION	10,214.96
06/14/2023	101	24652	00723	WINN TELECOM	PHONE SERVICE 6/1/23-6/30/23	430.58
06/14/2023	101	24653	00732	YEO & YEO, PC	AUDIT SERVICES THROUGH 4/30/2023	6,165.00
						<u><u>964,683.41</u></u>
101 TOTALS:						
Total of 62 Checks:						964,683.41
Less 1 Void Checks:						0.00
Total of 61 Disbursements:						<u>964,683.41</u>

<b>Charter Township of Union</b> <b>Payroll</b>
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**CHECK DATE: May 25, 2023**

**PPE: May 20, 2023**

**NOTE: PAYROLL TRANSFER NEEDED**

General Fund	\$	38,489.32
Fire Fund		
EDDA		
WDDA		
Sewer Fund		31,148.14
Water Fund		32,273.50
<b>Total To Transfer from Pooled Savings</b>	<b>\$</b>	<b>101,910.96</b>

**NOTE: CHECK TOTAL FOR TRANSFER**

BS&A Gross Payroll	\$	69,540.86
Employer Share Medicare		963.44
Employer Share SS		4,119.70
SUI		25.55
Pension-Employer Portion		5,606.82
Workers' Comp		506.42
Life/LTD		-
Dental		1,287.79
Health Care		22,033.97
Vision		-
Vision Contribution		-
Health Care Contribution		(2,453.59)
Flex Administrators		50.00
Cobra/Flex Administration		230.00
PCORI Fee		-
<b>Total Transfer to Payroll Checking</b>	<b>\$</b>	<b>101,910.96</b>

**CHECK DATE: June 8, 2023**  
**PPE: June 3, 2023**

**NOTE: PAYROLL TRANSFER NEEDED**

General Fund	\$ 41,194.64
Fire Fund	
EDDA	
WDDA	
Sewer Fund	32,065.28
Water Fund	33,876.10
<b>Total To Transfer from Pooled Savings</b>	<b>\$ 107,136.02</b>

**NOTE: CHECK TOTAL FOR TRANSFER**

BS&A Gross Payroll	\$ 73,577.01
Employer Share Medicare	1,018.98
Employer Share SS	4,357.04
SUI	32.98
Pension-Employer Portion	5,848.71
Workers' Comp	541.21
Life/LTD	684.82
Dental	1,287.79
Health Care	22,033.97
Vision	414.20
Vision Contribution	(207.10)
Health Care Contribution	(2,453.59)
Flex Administrators	
Cobra/Flex Administration	
PCORI Fee	-
<b>Total Transfer to Payroll Checking</b>	<b>\$ 107,136.02</b>



# Union Township Report

Date: Tuesday, May 23, 2023



Alarm Date between 2023-05-14 and 2023-05-20

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
<b>Union Township</b>	<b>0000299</b>						
		5/14/2023 12:02:56 AM	561	Unauthorized burning	ENG 31	2	1
						<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000300</b>						
		5/14/2023 3:49:05 PM	150	Outside rubbish fire, other	ENG 31	2	1
						<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000306</b>						
		5/15/2023 3:38:54 PM	321	EMS call, excluding vehicle accident with injury	SCH 31	1	1
		5/15/2023 3:38:54 PM	321	EMS call, excluding vehicle accident with injury	ENG 31	2	1



							<b>Total Responding 3</b>	
<b>Union Township</b>	<b>0000307</b>							
		5/15/2023 6:16:48 PM	321	EMS call, excluding vehicle accident with injury	ENG 31		2	1
							<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000309</b>							
		5/16/2023 10:23:52 AM	743	Smoke detector activation, no fire - unintentional	ENG 31		2	1
							<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000310</b>							
		5/16/2023 12:55:40 PM	140	Natural vegetation fire, other	ENG 31		2	1
							<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000312</b>							

		5/16/2023 2:36:53 PM	321	EMS call, excluding vehicle accident with injury	ENG 31	2	1
						<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000313</b>						
		5/17/2023 9:13:51 AM	741	Sprinkler activation, no fire - unintentional	ENG 32	2	1
						<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000318</b>						
		5/18/2023 9:46:39 AM	311	Medical assist, assist EMS crew	ENG 31	2	1
						<b>Total Responding 2</b>	
<b>Union Township</b>	<b>0000320</b>						
		5/19/2023 11:23:21 AM	744	Detector activation, no fire - unintentional	ENG 31	2	1
						<b>Total Responding 2</b>	

<b>Union Township</b>	<b>0000323</b>						
		5/19/2023 1:00:20 PM	611	Dispatched & canceled en route	ENG 31	2	1
		5/19/2023 1:00:20 PM	611	Dispatched & canceled en route	Brush 31	1	1
						<b>Total Responding 3</b>	
	<b>Total Runs</b> 11					<b>Total Responding 24</b>	

**Note: Alarms**

**1=Duty Crew**

**2=Paged Off Duty Full-time**

**3=Paged Paid-on-Call Firefighters**

**4=Paged All**

# REQUEST FOR TOWNSHIP BOARD ACTION

<b>To:</b> Mark Stuhldreher - Township Manager	<b>DATE:</b> June 5, 2023
<b>FROM:</b> Kim Smith – Public Service Director	<b>DATE FOR BOARD CONSIDERATION:</b> June 14, 2023
<b>ACTION REQUESTED:</b> Approval of a Residential Water Franchise Agreement for parcel number 14-020-40-001-04 located at 1796 Mamie Street.	

Current Action  Emergency

Funds Budgeted: If Yes \_\_\_\_\_ Account # \_\_\_\_\_ No \_\_\_\_\_ N/A

Finance Approval \_\_\_\_\_

### BACKGROUND INFORMATION

The owner of the property located at 1796 Mamie Street currently has a residential home which is connected to a residential water well. The owner is experiencing problems with the well and wishes to connect to a municipal water system vs. drilling a new well. The Charter Township of Union does not have water service available in this area. The City of Mt. Pleasant does have water service available to this property. The owner of this property has requested that the City of Mt. Pleasant provide municipal water service to this property.

In order for one municipality to provide water service to a property located within the boundaries of another municipality a Franchise Agreement must be executed between the parties. The Township and City have approved franchise agreements for other properties in the past. To facilitate franchise agreements between the City of Mt. Pleasant and Union Township a template has been established for Residential Franchise Agreements.

### SCOPE OF SERVICES

Execute a Water Service Franchise Agreement for the City of Mt. Pleasant to provide municipal water service for residential purposes to one property located within the boundaries of the Charter Township of Union.

### JUSTIFICATION

Approval of the Residential Franchise Agreements will provide municipal water service to one parcel located within the Township that otherwise would not have access to municipal water.

### PROJECT IMPROVEMENTS

Board of Trustees goals addressed by this agreement (From Policy 1.0: Global End).

- 1. Community well-being and common good**

**COSTS**

na

**PROJECT TIME TABLE**

NA

**RESOLUTION**

It is Resolved to approve the Residential Water Franchise Agreement for parcel number 14-020-40-001-04 located at 1796 Mamie Street.

Resolved by

Seconded by

\_\_\_\_\_

\_\_\_\_\_

Yes:

No:

Absent:

**City of Mt. Pleasant  
Charter Township of Union**

**Water Service Franchise Agreement**

**THIS AGREEMENT** entered into this 25 day of May, 2023, by and between The Charter Township of Union, a Municipal Corporation, located in the County of Isabella, State of Michigan, hereinafter referred to as “**GRANTOR**”, and the City of Mt. Pleasant, a Municipal Corporation located in the County of Isabella, State of Michigan, hereinafter referred to as “**GRANTEE**”.

**ARTICLE I  
Purpose and Intent**

The Township of Union has a water supply and distribution system; however, is unable to supply water to every premises in the Township. The City of Mt. Pleasant also has a water supply and distribution system which in many instances can supply water to premises located within the Township much more readily than the Township can at the time this Agreement is executed. In order to facilitate the delivery of water service to premises located with the Township this Agreement is being entered into. It is the express intent of the parties that this is an interim agreement which shall remain in effect only so long as the Township is unable to deliver water service.

In consideration of the grant of this Franchise, the **GRANTEE** hereby promises to comply with the provisions of this Franchise Agreement in supplying a water line and water to the premises located at Parcel Number 14-020-40-001-04, 1796 Mamie Street, Mt. Pleasant, Michigan, which premises is located within Union Township, Isabella County, Michigan.

**ARTICLE II  
Grant of Authority**

The **GRANTOR** hereby grants to the **GRANTEE** a non-exclusive right, privilege, and franchise to construct, operate, and maintain a water line and supply water to the property set forth in Article I hereof for a term of twenty (20) years from the date of this Agreement or such earlier date as **GRANTOR** may give **GRANTEE** notice pursuant to Article III herein. It is understood that this Agreement is subject to Article VII, Section 19, of the Michigan Constitution of 1963, and therefore is revocable at the will of **GRANTOR**.

Prior to commencing any construction, **GRANTEE** shall notify and consult with **GRANTOR**. Any construction of water mains, transmission lines, or other water supply line or pipe shall be according to Township specifications and shall be located within any easements or rights-of-way as specified or approved by the **GRANTOR**'s water department. Approval of the exact location of the main, line or pipe within the easement or right-of-way by the **GRANTOR**'S water department shall be obtained prior to **GRANTEE** commencing any excavation or construction. **GRANTEE** shall be liable to **GRANTOR** for any costs **GRANTOR** may incur by **GRANTEE**'S failure to construct water mains, transmission lines or other water supply lines or

pipe to **GRANTOR'S** specification or for **GRANTEE'S** failure to locate such mains, line or pipe in the easements or rights-of way as specified by **GRANTOR**.

**ARTICLE III  
Authority Not Exclusive**

The **GRANTOR** reserves the right to grant one or more franchises for similar uses to any person, partnership, or corporation at any time. **GRANTEE** agrees to disconnect from its water main, transmission line, or other water supply lines or pipe the premises subject to this Agreement and further agrees to cease supplying water to said premises at such time as **GRANTOR** makes available water to said premises through **GRANTOR'S** own distribution system or otherwise. Available shall mean **GRANTOR** has a water main or line within 200 feet of the property line of the premises being served by **GRANTEE'S** water system. **GRANTOR** shall give **GRANTEE** written notice by first class mail of the availability of **GRANTOR'S** water supply to the premises subject to this Franchise Agreement and upon receipt of such notice, **GRANTEE** shall then cease supplying water and disconnect the premises from its water supply system.

**ARTICLE IV  
Conveyance of Water Lines**

Upon termination of this Agreement for any reason, any water lines laid by **GRANTEE** pursuant to this Franchise Agreement shall become the sole property of **GRANTOR**. Should the **GRANTEE** have a water main or transmission line which is existing at the time of execution of this Agreement, and to which the owner of the premises being served with water taps into for water service, then, in such an event, such water main or transmission line shall not be conveyed to **GRANTOR** upon termination of the Agreement and shall remain the sole and exclusive property of **GRANTEE**.

**ARTICLE V  
Maintenance**

**GRANTEE** shall be solely responsible for all maintenance and the cost thereof on the water line serving the premises subject to this Franchise Agreement during the term of this Agreement.

**ARTICLE VI  
Indemnity**

The **GRANTEE** shall indemnify, save, and hold harmless the **GRANTOR** from all liability for any injury or damage occurring to any person or property from any cause arising from the use, operation, or construction of the **GRANTEE'S** water line. The **GRANTEE** also agrees to indemnify the **GRANTOR** for any and all costs and attorney fees arising from any cause of action which results from the use, operation, or construction of **GRANTEE'S** water line or any intentional, malicious, or torturous activity of any employee or agent of **GRANTEE**. Further, **GRANTEE** agrees to indemnify the **GRANTOR** for any and all costs and attorney fees arising from any cause of action which results from **GRANTOR** having to enforce the terms and conditions of this Franchise Agreement.

**ARTICLE VII**

## **Fees**

GRANTEE shall not charge the owner of the premises being served by water under this Franchise Agreement an unreasonable amount for water and in any event, not more than an amount which exceeds 1.325 times the rate charged by GRANTEE to its residents for water consumption.

## **ARTICLE VIII Property Owner's Consent and Approval**

The undersigned being the owner of the premises which is the subject matter hereof, hereby consents to all of the terms and conditions set forth in this Franchise Agreement and acknowledges that he/she has fully read and understands the terms and conditions of this Franchise Agreement.



PROPERTY OWNER

By: Pat Mayfield

By: Pat Mayfield

STATE OF MICHIGAN

COUNTY OF Isabella

On May 25, 2023, appeared before me, presented a valid photograph identification, and acknowledged signature on this document.

Addie Pritchard Addie Pritchard

Notary Public, Isabella County, Michigan

My Commission expires: 2-8-2029

Acting in Isabella County, Michigan

CITY OF MT. PLEASANT

By: Amy Perschbacher  
Amy Perschbacher, Mayor

By: Heather Bouck  
Heather Bouck, Clerk

STATE OF MICHIGAN

COUNTY OF ISABELLA

On 5, 2023, June Amy Perschbacher and Heather Bouck, personally known to me as the Mayor and Clerk of the City of Mt. Pleasant, appeared before me and acknowledged their signatures on this document.

Addie Pritchard Addie Pritchard

Notary Public, Isabella County, Michigan

My Commission expires: 2-8-2029

Acting in Isabella County, Michigan

CHARTER TOWNSHIP OF UNION

By: \_\_\_\_\_  
Bryan Mielke, Supervisor

By: \_\_\_\_\_  
Lisa Cody, Clerk

STATE OF MICHIGAN

COUNTY OF ISABELLA

On \_\_\_\_\_, 2023, Bryan Mielke and Lisa Cody, personally known to me as the Supervisor and Clerk of the Charter Township of Union, appeared before me and acknowledged their signatures on this document.

\_\_\_\_\_

Notary Public, \_\_\_\_\_ County, Michigan

My Commission expires: \_\_\_\_\_

Acting in Isabella County, Michigan

**Exhibit A**  
**Property Description**

14-020-40-001-04

T14N R4W, SEC 20; BEG S 89D45M27S W 757.48 FT AND N 00D39M33S W 570.90 FT AND S 88D54M12S W 103.96 FT FROM SE COR OF SEC 20 SAID PT BEING THE NE COR OF LOT 9 OF MCGUIRK ESTATES TH S 88D54M12S W 100 FT TH N 01D05M48S W 150 FT TH N 88D54M12S E 100 FT TH S 01D05M48S E 150 FT TO POB

(989) 433-5498 Phone

(989) 433-0306 Fax

# CITY WATER #14 INFORMATION SHEET

Date: 5/24/23  
Name: PAT MAYFIELD  
Address: 1796 MAIME ST.  
City: MT. PLEASANT  
State:                      Zip:  
Phone: 989-773-0561

Property Tax ID:  
Lot Dimensions: .34 ACRES  
County: ISABELLA  
Township: UNION  
Section: 20  
Subdivision:  
Lot:

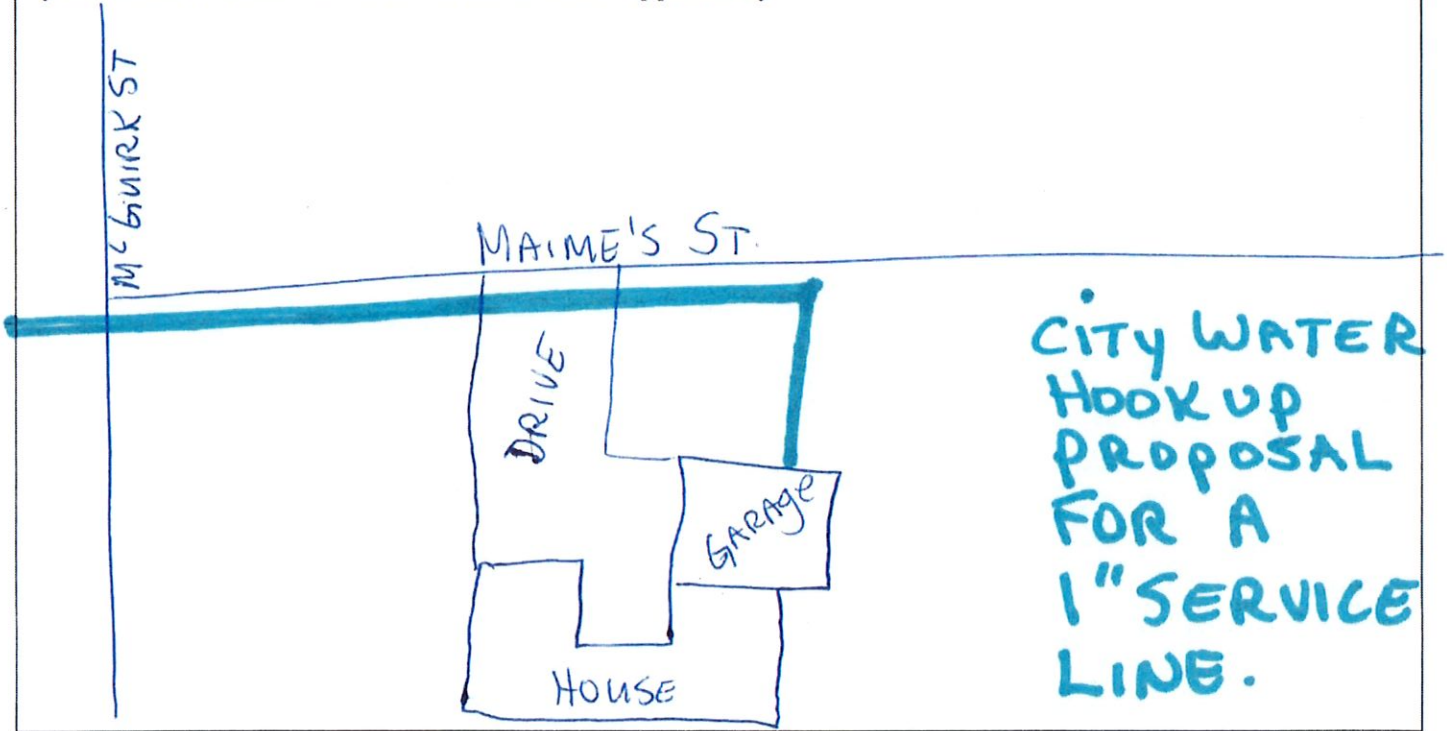
**OUT OF WATER: YES / NO**

Miss Dig Ticket #

Crossroads:

## WELL DETAILS:

(Draw a sketch of proposed site plan (show buildings, driveway, lot lines, owners well and sewage system, lake, stream, ditch or buried drains if applicable))



**To:** Mark Stuhldreher - Township Manager      **DATE:** June 6, 2023

**FROM:** Kim Smith – Public Services Director      **DATE FOR BOARD CONSIDERATION:** June 14, 2023

**ACTION REQUESTED:** Approval of the Bid from Peerless-Midwest in the amount of \$72,073.00 for the completion of well exploration activities.

Current Action       Emergency

Funds Budgeted: If Yes  Account # 591-536-972.000 No  N/A

Finance Approval ST

### BACKGROUND INFORMATION

The Charter Township of Union’s 2017 and 2022 Water Reliability Studies both indicate that the water system will have a need for additional water supply capacity within the next five years. In November of 2021 Gourdie Frasier the Township’s Engineers completed a Type I Well Feasibility Study to assist the Township in the first step of determining the ideal locations for future wells.

Based on the information derived from this study potential well location sites were identified in the study. One of these potential sites is located on Mission Road just south of Deerfield Road. The site is currently owned by Union Township and located in close proximity to our Mission Road Treatment Plant. The location and ownership make this an ideal site for the possible location of an additional well.

In June of 2022, with the assistance of the Township’s Engineers, the Public Services Department applied for a Source Water Protection Grant to help fund the preliminary well exploration work for the Mission Road Site. The application included activities allowable under the Source Water Protection Grant Program. The grant program is a 50/50 matching program and required that an Agreement be signed between EGLE and the Township. This Agreement was signed in January of 2023.

The items fundable under the Source Water Protection Grant program are as follows:

- Preliminary Investigation (Water Usage / Availability) – completed as part of Type 1 Well Feasibility Study
- Drilling of a test well
- Test well pump testing and aquifer analysis

The well exploration funding approved through the grant funding was as follows:

EGLE Source Water Protection Grant Funding	\$38,750.00
Charter Township of Union Matching Funds	<u>\$38,750.00</u>
<b>Project Total</b>	<b>\$77,500.00</b>

In April of 2023 a Request for Proposals (RFP) was issued to qualified Type I Water Well Drillers to construct a test well on the property owned by the Township on Mission Road. On May 24, 2023 one bid was received from Peerless-Midwest for this project in the amount of \$72,073.00.

## SCOPE OF SERVICES

The scope of services for this step of the Well Installation Project are as follows:

- Mobilization
- Well Exploratory Drilling – Pilot (300 feet)
- Well Casing Installation, 6-inch PVC (300 feet)
- Well Capacity Testing
- Water Quality Analytics
- Site tree clearing and temporary drive constructon
- Site cleanup and restoration

## JUSTIFICATION

Approval of the contract with Peerless-Midwest will facilitate the township to continue to move forward with the Well Installation Project, which will directly benefit the water users by providing exceptional quality and quantity of safe drinking water.

## PROJECT IMPROVEMENTS

Board of Trustees goals addressed by this agreement (From Policy 1.0: Global End).

1. **Community well-being and common good**
2. **Health**

## COSTS

### Well Exploration Cost

Item	Cost
Mobilization	\$3,500.00
Exploratory Drilling – Pilot Well (300 feet)	\$10,500.00
Well Casing Installation – six-inch (6”) PVC – (300 feet)	\$18,600.00
Well Capacity Testing	\$13,460.00
Water Quality Analytics	\$2,013.00
Tree Clearing and Temporary Drive Construction (allowance)	\$20,000.00
Site Cleanup and Restoration	\$4,000.00
<b>Total</b>	<b>\$72,073.00</b>

**Well Installation Project Cost to Date**

Item	Cost
Type I Well Feasibility Study	\$8,500.00
GFA Engineering Contract	\$6,500.00
Well Exploration Project (pending approval)	\$72,073.00
<b>Total</b>	<b>\$87,073.00</b>

Funds for the Well Installation Project are included in the FY2023 Budget in the amount of \$300,000.00.

**PROJECT TIME TABLE**

Completion by August 31, 2023

**RESOLUTION**

Approval of the Bid from Peerless-Midwest in the amount of \$72,073.00 for the completion of well exploration activities.

Resolved by \_\_\_\_\_ Seconded by \_\_\_\_\_

Yes:  
No:  
Absent:



June 1, 2023

Ms. Kim Smith  
Charter Township of Union  
5228 South Isabella  
Mt. Pleasant, MI 48858

Re: Union East Side Water Supply  
Type I Water Well Proposals  
GFA Job No. 23058

Dear Kim:

The Township has investigated locations for a new well site to supplement future demand needs of the East Side Pressure District. A Request for Proposals (RFP) was issued to qualified well drillers to construct a test well on Mission Road (near Mission Treatment Facility). The well driller will be responsible for determining the best location and depth of the proposed well that will be able to provide the most flow capacity without impeding any surrounding wells in the area or regional water levels. We have received the results of our Request for Proposals (RFP) on May 24, 2023 based upon solicitations from qualified well drillers and advertisements in the Morning Sun Newspaper and local Plan Holding Rooms. This project is partially funded through a Source Water Protection Grant from EGLE. The Township was in receipt of one (1) proposal and their respective price is summarized as follows:

	Bid	
1. Peerless-Midwest	\$ 72,073.00	

Upon review of the bid prices, the project bid was higher than the originally anticipated cost estimate of \$49,000 that was generated in 2022. Gourdie-Fraser evaluated the received bid and found it to be accurate with the additional cost overage primarily attributed to the construction of a temporary drive to facilitate access to the proposed well site. The location identified is heavily treed and will require clearing / grubbing.

Overall our experience in the current bidding market, equipment and labor prices remains unpredictable coupled with lack of availability, as supported by receipt of only (1) qualified bid. Typically, the Township receives on average two (2) to three (3) competitive bids from contractors whereas this project there was one (1).





Based upon the above information and past experiences we do recommend the Township approve Peerless-Midwest. as the well driller for this project since the Township's past experience with this company has been quite satisfactory. If you should have any questions or comments regarding the above-mentioned information or anything else, please do not hesitate to contact us.

Sincerely,

GOURDIE-FRASER

A handwritten signature in blue ink, appearing to read 'Jennifer Graham', with a long horizontal flourish extending to the right.

Jennifer Graham, P.E.  
Project Engineer

T:\Projects\08426\Documents\Letter of Recommendation\_9-19-08.doc



**Bid Results**  
**Charter Township of Union**  
**Investigation and Test Well**  
**New Water Source - East Side Service District**  
**GFA Project No. 23058**

Peerless Midwest, Inc.

<b>No.</b>	<b>Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Price</b>	<b>Cost</b>
1	Mobilization	LS	1	\$3,500.00	\$3,500.00
2	Exploratory Drilling- Pilot	LF	300	\$35.00	\$10,500.00
3	Well Casing, 6-inch PVC	LF	300	\$62.00	\$18,600.00
4	Capacity Testing	LS	1	\$13,460.00	\$13,460.00
5	Water Quality Analytics	EA	1	\$2,013.00	\$2,013.00
6	Tree Clearing and temporary drive construction	LS	1	\$20,000.00	\$20,000.00
7	Site Cleanup and Restoration	LS	1	\$4,000.00	\$4,000.00
				<b>TOTAL BIDS</b>	<b>\$72,073.00</b>

**REQUEST FOR PROPOSALS**  
**Investigation and Test Well**  
**New Water Source- East Side Service District**  
**Union Township, Isabella County**

Proposals Due:

4:00 P.M., Wednesday, May 24, 2023

Address Proposals to (mail and/or email):

*Engineer*

Attention: Jennifer Graham, P.E.  
Gourdie-Fraser, Inc.  
123 West Front Street  
Traverse City, MI 49684  
231-946-5874  
jennifer@gfa.tc

Scope of Services:

We have been asked by our client, Union Township to solicit proposals from qualified Type 1 well drillers to investigate and evaluate a new groundwater source to meet the growing demands of the community that is capable of producing 400 GPM or greater. The information contained below are the specific qualifications each well driller must meet in order to provide an accurate proposal. A preliminary site layout is attached for reference illustrating the approximate proposed well location.

Background Information:

The existing East Side Iron Removal Facility (Isabella Facility) is owned and operated by Union Township and provides municipal water service to the customers within the Township. The facility operates on two (2) 400 gpm and one (1) 700 gpm production wells (Wells #7, #10 and #11) all located at the facility, which provides iron removal treatment utilizing two (2) 750 gpm pressure filters and then distributes water out to system. Well #7, #10 and #11 are all located within the same aquifer. Based on the development and testing of the three (3) Isabella Facility Wells #7, #10, and #11 it was determined that the aquifer is capable of producing a rated capacity of 1100 GPM allowing the Township to have the flexibility to use Well #7 simultaneously with one of the other wells (well #11 or #10 – operating lead / lag).

With limited aquifer capacity at the Isabella Facility, the Township has investigated locations for a new well site to supplement future demand needs of the East Side Pressure District. The proposed well site is a 14 acre township owned parcel located at 5076 South Mission Road, approximately 1.7 miles west of the existing Isabella WTP. It is the intent of this work to demonstrate that a proposed well can be developed at the proposed well site in an aquifer that will be capable of meeting the proposed capacity requirements described previously. The well driller will be responsible to determine the best location and depth of the proposed well that will be able to provide the most flow capacity without impeding any surrounding wells in the area or regional water levels.

Requirements - General:

- Work must comply with all applicable laws, regulations
- All labor and materials shall be installed compliant with Township, DPW, EGLE, EPA and manufacturer's recommendations.
- Contractor shall be responsible for obtaining all local regulatory permits, completing inspections and payment of all associated fees which include but are not limited to County Soil Erosion Control.

- Contractor shall be responsible to provide access to the site to accommodate equipment including tree clearing and temporary gravel drive construction (labor and materials). Location and route to be coordinated with the Engineer and Township.
- Provide a one (1) year full labor and material warranty on all workmanship, material and equipment furnished for this project.
- It is strongly recommended that you make a site visit and perform an evaluation of the existing conditions and proposed scope of work. Coordinate with the DPW for site access:
  - Kim Smith, Public Services Director (989) 772-4600, Ext 224
  - Shawn McBride, Water Operator (989) 621-1361

Terms of Agreement:

General:

- To hold bid open for 60 consecutive calendar days from the bid due date
- To enter into and execute a contract with the Charter Township of Union

Insurance:

- Contractor will have Worker's Compensation Insurance in limits required by state law and Comprehensive General Liability Insurance coverage in force for all of its operations under this contract.
  - Insurance shall list Charter Township of Union and Gourdie Fraser as additional insureds.

Bonds:

- The Contractor shall include in the proposal price the cost to provide the following:
  - Maintenance and Guarantee Bond in the amount of 50% of the proposal amount, guarantying for a period of one (1) year from final acceptance of the project work
  - Letter of Surety, licensed to business in the State of Michigan, stating ability to obtain a Performance Bond, and Labor and Material Bond for 100% of the proposal amount.

Shop Drawings/O&M Submittals:

- Provide four (4) copies of material specification sheets and warranty information to Engineer. Do not proceed until written approval is received.
- Coordinate all work with Engineer

Schedule:

- To be completed by August 1, 2023
- All work must be completed within thirty (30) calendar days from the beginning of removal to final clean up. Delays by inclement weather shall be approved by the Engineer.

Subject to determinations that prove favorable, a future well will be constructed and converted into a production well (not part of this proposal).

Drilling and Aquifer Testing

*Pilot Well Construction*

Installation of one (1) pilot hole with the purpose to sample and log existing geological conditions. The bore shall be used as an aid to assist the well driller with determining location and depth of proposed test well. The contractor shall be responsible for determining location and size.

*Test Well Construction*

Installation of one (1) test well. The contractor shall be responsible for coordinating final location with engineer and DPW. The test well shall be used to verify water quality and

aquifer capacity to meet proposed operation conditions for facility. This well shall be converted to a monitoring well upon demonstrating satisfactory aquifer results.

The well shall be constructed in accordance with the State of Michigan Well Construction Code (Rules to Part 127 of Act 368 of the Public Acts of 1978, as amended). All materials in contact with drinking water shall meet ANSI/NSF approval and shall include the following:

- 6-inch PVC casing and be installed in the following manner:
  - Total depth of the well is to be approximately 100 to 300 feet
  - Total length of casing not to exceed 280 feet
  - The annulus is grouted with neat cement grout from the top of the gravel pack to the surface.
  - The static water level in the well is expected to be roughly 3 feet.
- Stainless steel screen
  - Length to be 20 feet
  - Driller shall be responsible for determining sizing and submit to owner for review prior to installation
- Well shall be equipped with a means to measure the water level.
- Well seal, cap and vent

#### *Duties*

Well Driller shall be responsible for performing the following, in addition to the work outlined above in the Well Construction section. Testing shall be completed compliant with High-capacity wells are subject to DWEHD policy and procedure ODWMA-399-003, “*Aquifer Test Requirements for Public Water Supply Wells,*” under Act 399:

- Mobilization
- Site access including tree clearing and temporary access drive construction.
- Performance of well construction log and static water including documentation provided to owner in accordance with the state EGLE Well Code.
- Development of well including conducting a well capacity test at various discharge rates to determine available aquifer capacity for a future production and determine potential influence on adjacent and regional water levels (Mount Pleasant City Wells and Wells #8 / #9 are approximately a quarter mile north of the intersection of Mission / Deerfield Road) as required by EGLE.
  - Driller shall be responsible for monitoring static water levels in proposed well and surrounding existing wells with respect to capacity test.
  - DPW and Engineer will assist driller with communication and coordination with existing well owners.
  - Documentation of all testing and water level observations shall be provided to owner
  - Driller shall be responsible for discharging water to acceptable location that will not cause any soil erosion or sedimentation
- Chemical and radiological water quality sampling shall be performed for proposed well in accordance the state EGLE Well Code including documentation of results to owner.
  - All costs incurred with the sampling and testing shall be the drillers’ responsibility
- Well driller shall provide site clean-up upon completion of duties including restoration and/or repair.

### Equipment

Driller shall provide all equipment and materials necessary to complete the work outlined above in the Well Construction and Duties to provide for the well installation, development, yield and drawdown testing, disinfection, water quality sampling, mobilization, and clean-up. They shall include, but are not limited to, the following not stated previously:

- Site access including tree clearing and temporary access drive.
- Temporary Pumping and means of operation.
- Temporary Power Supply
- Flow monitoring and water level measuring devices
- Piping, valving and appurtenances
- Discharge hose
- Temporary Water Supply

Contractors Proposal Form

Bidders are instructed to submit bids for this project on a unit cost basis as stated in the Proposal. All labor, materials and equipment are considered incidental and to be included in total bid price. All work shall be in compliance with specifications and terms identified in the RFP and applicable laws.

No.	Item	Unit	Est. Qty.	Unit Price	Item Cost
1	Mobilization	LS	1	\$3,500.00	\$3,500.00
2	Exploratory Drilling- Pilot	LF	300	\$35.00	\$10,500.00
3	Well Casing, 6-inch PVC	LF	300	\$62.00	\$18,600.00
4	Capacity Testing <i>**includes screen and development</i>	LS	1	\$13,460.00	\$13,460.00
5	Water Quality Analytics	EA	1	\$2013.00	\$2,013.00
6	Tree Clearing and temporary drive construction ( <b>Allowance not to exceed</b> )	LS	1	\$20,000.00	\$20,000.00
7	Site Cleanup and Restoration	LS	1	\$4,000.00	\$4,000.00
TOTAL BID					\$72,073.00

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Bidders Signature

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Printed Name:  
Bob Masters

---

Business Name:  
Peerless-Midwest, Inc.

---

Address: 505 Apple Tree Drie, Ionia, MI 48846

---

Contractor / Well Driller License No.:  
2688, 2227

---

Telephone: 616-690-81398

---

Email: bob.masters@peerlessmidwest.com

The Owner may make such investigations as deemed necessary to determine the ability of the Bidder to perform the Work and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any / all bids if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the work as requested.

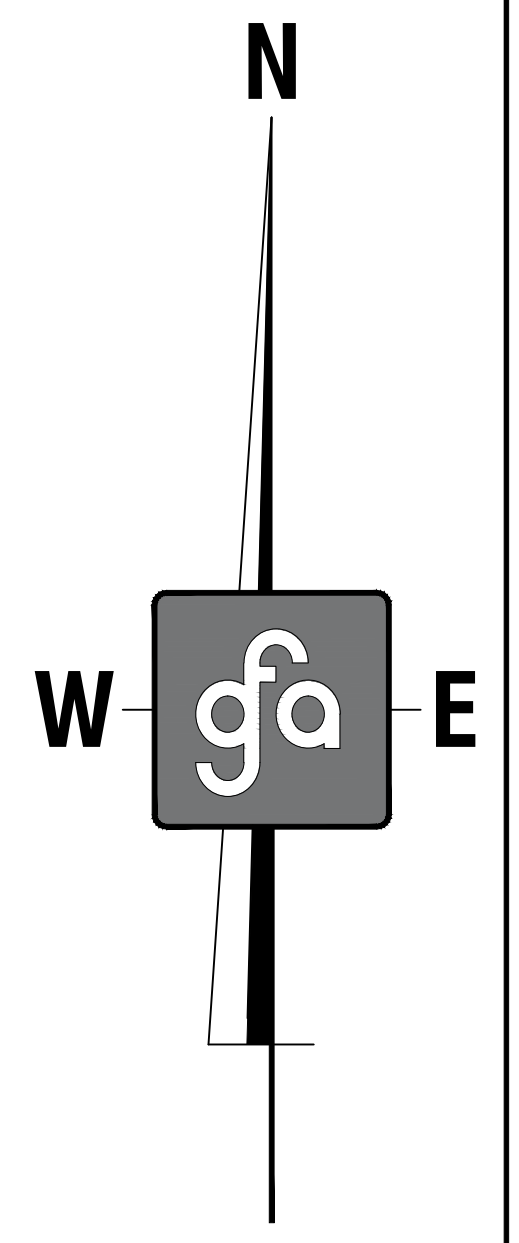
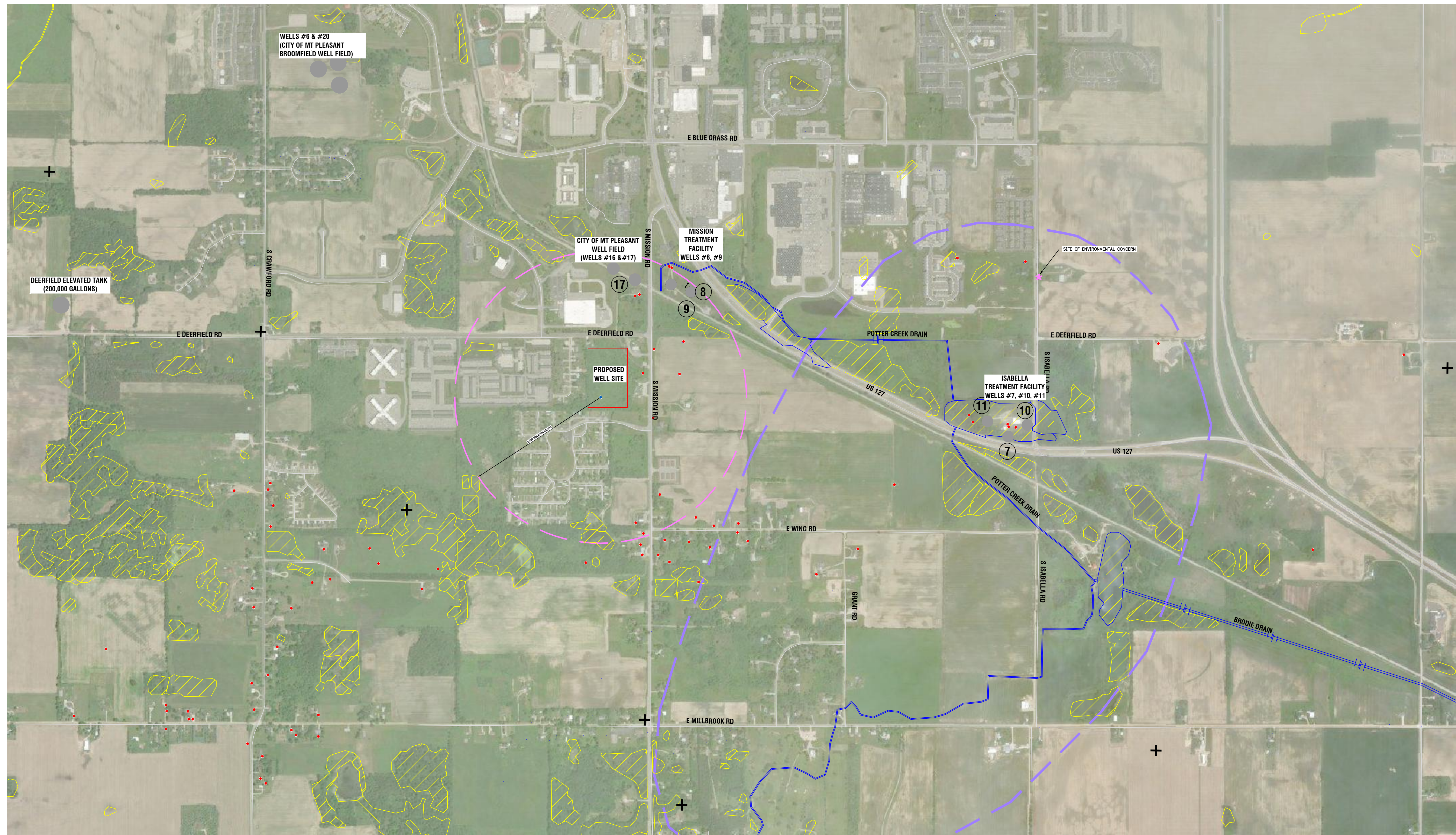
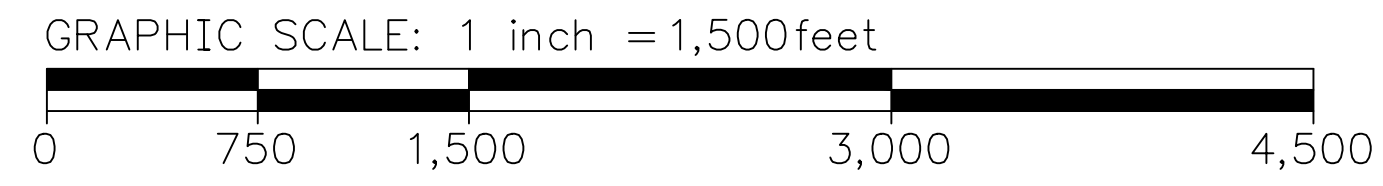
***Charter Township of Union reserves the right to accept or reject any or all proposals.***

# TYPE I TEST PRODUCTION WELL REQUEST

## PROPOSED WELL SITE LOCATION MAP

ENGINEERING SURVEYING TESTING & OPERATIONS  
 123 West Front Street  
 Traverse City, MI 49684

<http://gfa.tc>  
 231.946.5874 (p)  
 231.946.3703 (f)



### LEGEND

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li> WATER WELL- RESIDENTIAL, TYPE I AND TYPE II</li> <li> AREA OF ENVIRONMENTAL CONCERN</li> <li> WETLAND BOUNDARY</li> </ul> | <ul style="list-style-type: none"> <li> WATERSHED</li> <li> 2,000 FT ISOLATION ZONE</li> <li> 200 FT WELL ISOLATION ZONE</li> <li> COUNTY DRAIN</li> </ul> | <ul style="list-style-type: none"> <li> WELL ID NUMBER</li> <li> OIL / GAS WELL</li> </ul> |
|---|--|--|

# TYPE I TEST PRODUCTION WELL REQUEST PROPOSED WELL SITE PLAN

ENGINEERING  
SURVEYING  
TESTING & OPERATIONS







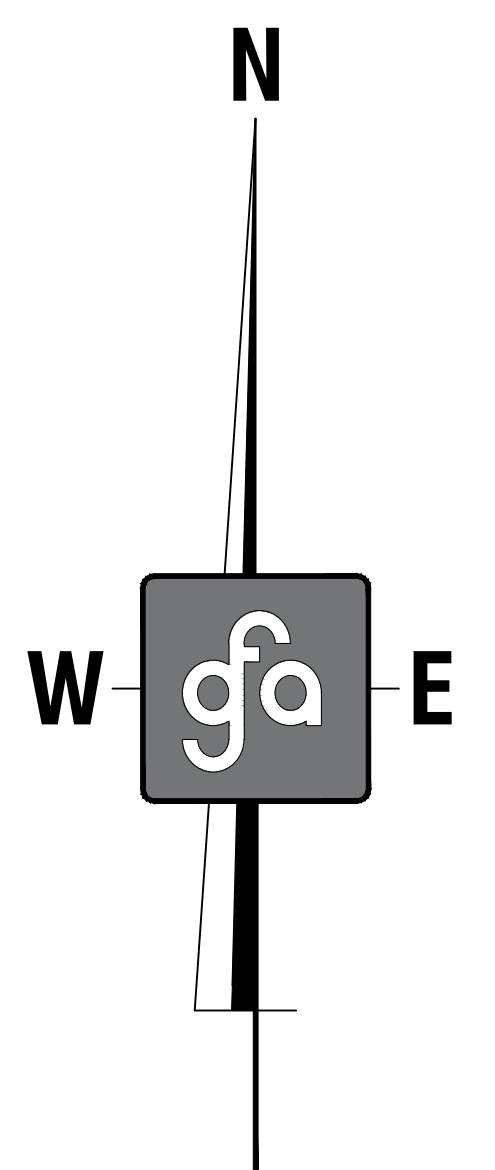
<http://gfa.tc>  
231.946.5874 (p)  
231.946.3703 (f)

GRAPHIC SCALE: 1 inch = 1,500feet



## LEGEND

-  PROPOSED PRODUCTION WELL- TYPE I
-  WATER WELL- RESIDENTIAL, TYPE I AND TYPE II
-  200 FT ISOLATION ZONE
-  WELL SITE ACCESS ROAD





## SECTION 02520 –TEST WELL

### PART 1 - GENERAL

#### 1.01 DESCRIPTION

- A. This work includes the construction and testing of one 6-inch PVC cased Monitoring well. Including, but not limited to, pump testing, complete analytical sampling, mobilization, and clean-up.

#### 1.02 SHOP DRAWINGS

- A. Product Data: For each pump, motor, and all piping products to be used in the work.

#### 1.05 GUARANTEE

- A. The Contractor shall provide a guarantee for their work according to the specifications.

#### 1.06 QUALITY ASSURANCE

- A. Contractor/Subcontractor shall provide at least 3 different references of successful well drilling projects of similar nature/size in the State of Michigan for Municipal Type I Systems.
- B. Contractor/Subcontractor must have been in the pump and well business for a minimum of ten (10) years and must be a licensed well driller in good standing and current certification with the state of Michigan.
- C. Safety is of the highest importance, therefore all crew members working on site must be OSHA 40 hour trained and current on certification. Documentation must be provided prior to starting any work.
- D. All well construction shall conform to the Michigan Water Well Construction and Pump Installation Code (Part 127, Act 368, PA 1978 and Administrative Rules).
- E. Materials:
  - 1. Shall bear label, stamp, or other markings of specified testing agency.
  - 2. Comply with NSF 14 for plastic potable-water-service piping. Include marking “NSF-pw” on piping.
  - 3. Comply with NSF 61 for materials for water-service piping and specialties for domestic water.
- F. Well Testing shall conform to EGLE Policy and Procedure WD-03-003: AQUIFER TEST REQUIREMENTS FOR PUBLIC WATER SUPPLY WELLS

### PART 2 – PRODUCTS

#### 2.01 MATERIALS

MONITORING WELL

- A. Well Casing: The well casing shall be PVC, 6-inch, and shall meet the requirements set forth in the EGLE well construction code. Pipe shall be new and shall be standard weight or SDR 18 C900, Certalok in accordance with ASTM D1784. The casing shall be watertight throughout its length and shall have solvent cement or bell end configuration and coupled joints installed in accordance with the EGLE code.
- B. Well Screen: The well screen shall be new, and 304 stainless steel. The screen shall be capable of producing a minimum of 50 GPM with a maximum entrance velocity of 0.10 feet per second, unless otherwise approved by the Engineer. It shall be the responsibility of the contractor to adequately size the screen based upon the aquifer material encountered. There shall be a watertight seal between the casing and the screen. Screen sections must be joined by welded or threaded connectors.
1. Products: Subject to compliance with requirements, provide from the following manufacturer:
- Johnson Screen
  - Alloy Machine Works, Inc.
  - Or approved equal
- C. Grout: The well shall be grouted using Neat Cement and shall be compliant with EGLE Policy and Procedure DWRP-03-016: GROUTING OF COMMUNITY WATER SUPPLY WELLS
- D. Filter Pack: The filter pack shall consist of clean, well-rounded grains that are smooth and uniform. The filter material shall be obtained from an approved source and shall consist of hard, rounded particles with an average specific gravity of not less than 2.5. Selection of the filter grain size shall be the responsibility of the Contractor.
- E. Cap, Vent and Seal: Shall be watertight and tightly secured to casing. Vent shall be screened.

## PART 3 – EXECUTION

## 3.01 GENERAL WELL CONSTRUCTION

- A. Well Construction:
- The well borehole shall be large enough to accommodate the well casing and facilitate the placement of the filter pack and grouting. The method of construction will be the responsibility of the Contractor.
  - The Contractor shall prevent any drilling fluid from leaving the immediate well area. Removal and disposal of drilling fluids are the responsibility of the Contractor, and shall be removed from the site.
- B. Well Casing: The well casing shall be installed in accordance with EGLE standards. The casing shall be watertight, plumb and straight so as not to interference with the installation, alignment, operation, or future removal of the well pump and motor.

- C. Well Grouting: The well shall be grouted using neat cement and meet EGLE standards. The well shall be grouted from the top of the gravel pack to the top of casing at the pitless adaptor. The grout shall be allowed to set a minimum of 24 hours before drilling operations are resumed. The contractor shall notify the Engineer at least 24 hours prior to grouting the well.
- D. Well Screen: The contractor shall analyze the aquifer formation and select the appropriate screen size. The screen selection analysis shall be submitted to the Engineer 24 hours prior to installation. The screen shall be installed per EGLE standards and manufacturer's guidelines.
- E. Filter Pack: The contractor shall design the filter pack material, thickness, and depth as to significantly improve the capacity of the well. After drilling the contractor shall submit the filter pack design to the Engineer for approval 24 hours prior to the installation.
- F. Well Development: The well shall be developed by the contractor until there is less than 5 parts per million of sand particles at design flow rate.

### 3.02 WELL DRILLING AND TESTING

- A. General: The purpose of the monitoring well drilling is to investigate and determine if the aquifer is capable of producing a proposed yield of 400 GPM or greater and provide another source for monitoring static water levels. The contractor shall verify the geology below the well site, accurately log and obtain samples of each stratum encountered, and conduct an 8-hour pump test. The contractor shall determine the method for obtaining soil samples. Documentation of all soil borings and depth and static water level shall be provided to the owner.

Testing: The contractor shall perform a capacity test of the completed well to determine draw down characteristics of the aquifer and influence on adjacent existing Wells. The contractor shall be responsible for furnishing and installing the test pump and motor, generator, piping, valves, discharge hose, and means for taking measurements at test well and minimum of two (2) monitoring wells. The discharge test shall be in accordance with the following procedure:

1. The test discharge rate shall be no less than 8 hours at a rate of 150 GPM. The contractor shall be responsible for furnishing and installing the test pump and motor, generator, piping, valves, discharge hose, and means for taking measurements at proposed test well and monitoring well.
  2. Measurements shall be taken within the test well and both existing neighboring wells simultaneously to the discharge testing to verify the aquifer's response to the pumping.
  3. Measurements shall be taken within the test well and the existing wells for recovery.
  4. Documentation of all testing and water level measurements shall be provided to the owner.
- C. The discharge from the test pumping shall not cause any soil erosion or sedimentation. Location to be coordinated with owner.

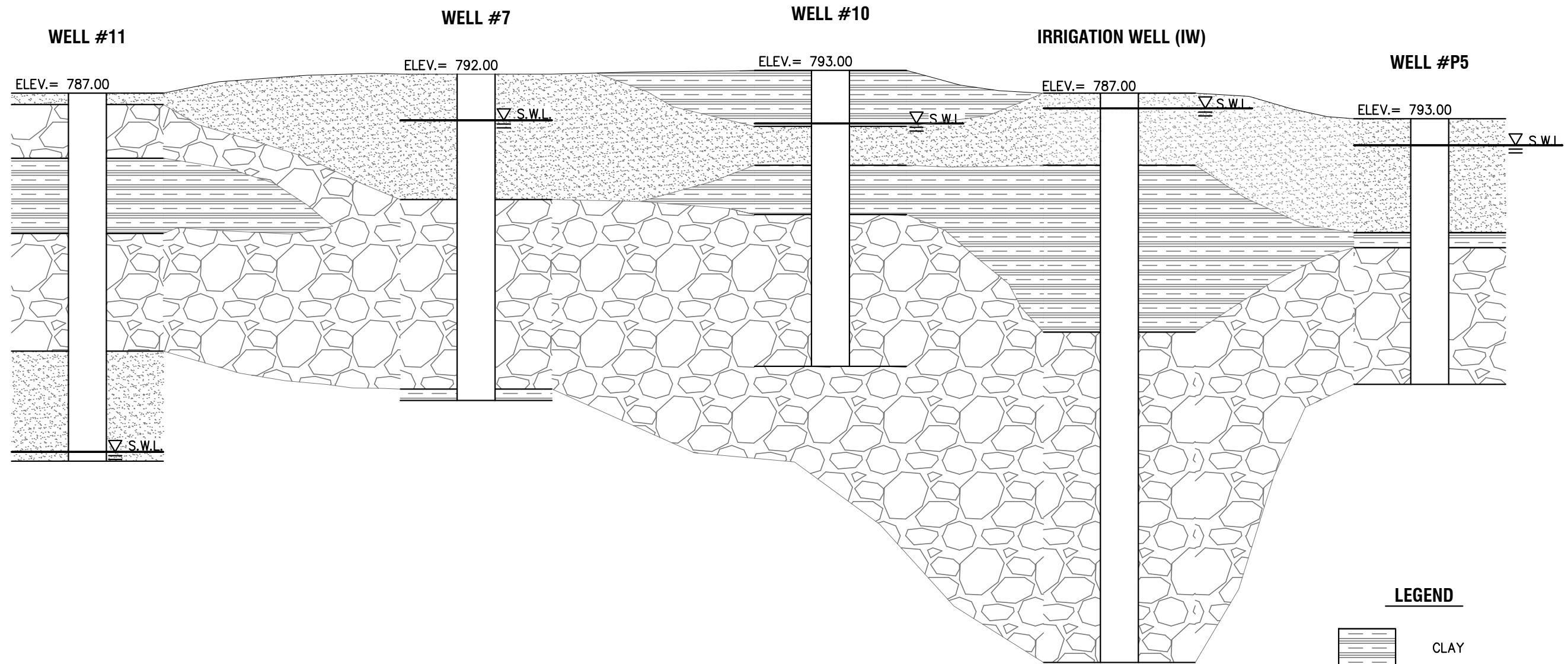
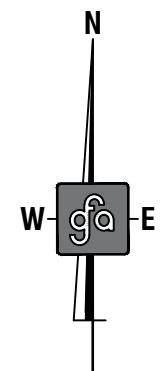
- D. The contractor shall submit to the owner, static water level, construction logs of well, and drawdown / recovery data upon completion of the discharge pumping.
- E. The contractor will perform complete Chemical and Radiological water quality sampling following the construction of the water well. All costs to be incurred by Contractor.
- F. All water disinfection shall be in accordance with AWWA C654 latest edition.
- G. Contractor shall be responsible for all site cleanup including restoration.

#### 3.04 Site Electrical Requirements





- A. General: The Contractor shall supply and install all site electrical wiring and equipment necessary to operate the wells in accordance with all federal, state, and local requirements and as described in these specifications and shown on the plans.

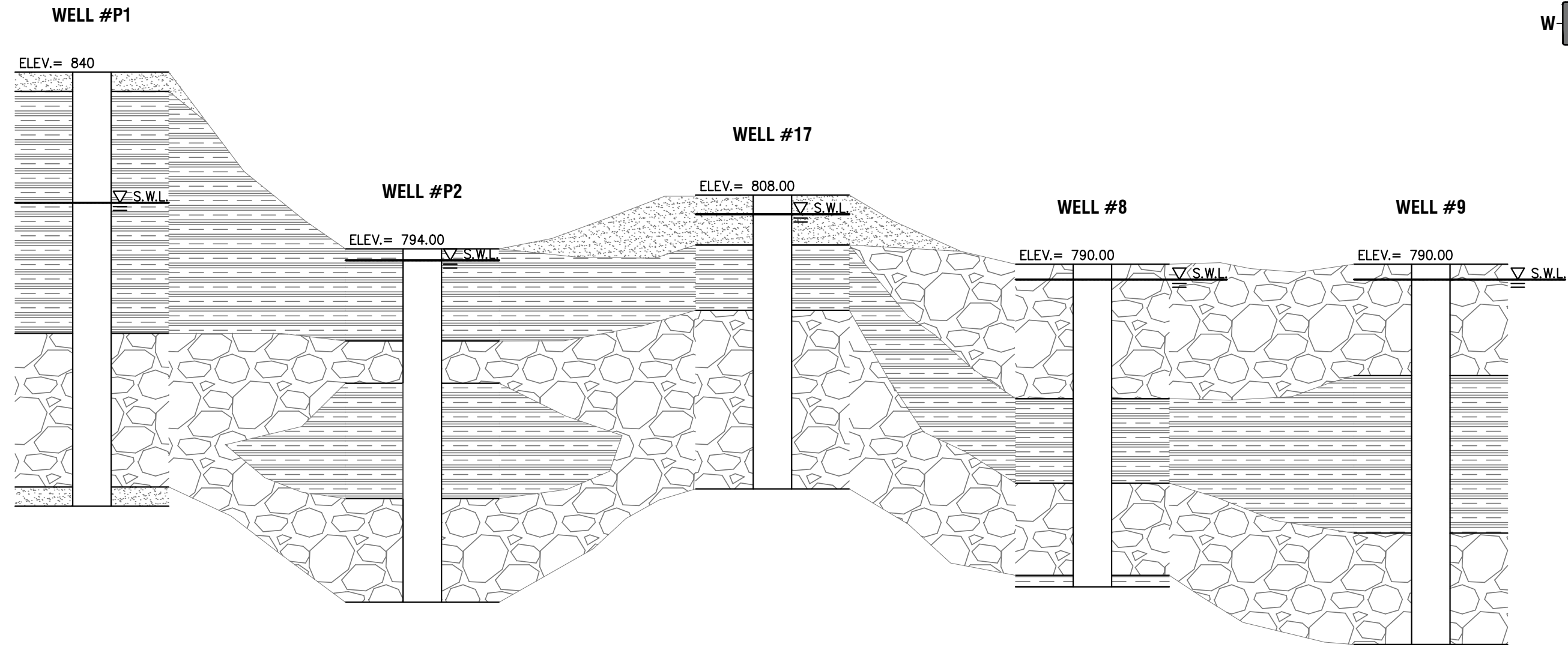
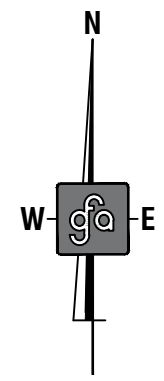
Note: If the pump horsepower proposed by Contractor is greater than the maximum specified, then the cost to increase the electrical service of the wells shall be borne by the Contractor.

End of Section 02520






**LEGEND**

-  CLAY
-  SAND
-  COARSE SAND
-  S.W.L.    STATIC WATER LEVEL



**LEGEND**

-  CLAY
-  SAND
-  COARSE SAND
- S.W.L.      STATIC WATER LEVEL



GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
BAY CITY DISTRICT OFFICE



DANIEL EICHINGER  
ACTING DIRECTOR

March 22, 2023

Kim Smith  
Union Township  
2010 South Lincoln Road  
Mt. Pleasant, MI 48858

WSSN: 06725  
County: Isabella

Dear Kim Smith:

SUBJECT: Union Township – Test Well 12 Approval

The Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD) has reviewed the documentation submitted, and completed a site inspection of the proposed test well 12 (TW-12) location on March 13, 2023. EGLE representative Shane Mudd performed the site investigation. The proposed capacity of the finished well is to be at least 400 gallons per minute. However, the **allowable final capacity of the proposed TW-12 will depend on the results of the Adverse Resource Impact (ARI)** completed by EGLE’s Source Water Unit. The request for an ARI was submitted by Shane Mudd on March 10, 2023.

During the site investigation, it was determined TW-12 was able to meet the minimum isolation distance requirements from major sources of contamination. The Township is also the owner of the minimum 200-foot isolation radius around the wellhead. No isolation distance variance will be required for TW-12.

This letter grants drilling approval to conduct TW-12 site investigation work for the Union Township Community Water Supply. TW-12 site investigation work will be completed at approximately 43.5659, -84.7698. According to a proposal submitted by Gourdie Fraser, TW-12 will utilize a 6-inch PVC casing that will extend to a depth no greater than 280 feet. TW-12 is slated to be equipped with a screen extending 20 feet below the PVC casing.

The purpose of TW-12 is to establish the sustainability of a high capacity well in this area. Union Township is looking to install a 6-inch PVC monitoring well (TW-12) prior to the construction of a larger 12-inch PVC production well. This production well is to be placed on the same site as TW-12, and will utilize a PVC casing of roughly 200-feet. Screen length is projected to be 40-feet. Should conditions prove favorable during the testing and construction of TW-12, Union Township will apply for an Act-399 permit to construct the 12-inch production well.

Once the test well has been drilled, the following documentation must be submitted prior to applying for an Act-399 permit:

1. A final site plan showing the exact location of the test well relative to all major and potential sources of contamination. Additionally, the site plan should indicate the 100-year flood elevations relative to the wells.
2. A log of the test well. A pump record must also be included.
3. The results of a 72-hour pump test. According to EGLE standard policy *ODWMA-399-003 Aquifer Test Requirement for Public Water Supply Wells*, a 72-hour pump test must be completed to determine the reliability of the water source. A copy of the forementioned policy is included in this letter. The final permit will not be issued until the results of the required 72-hour pump test are completed and reviewed by this office. Final pumping capacity of the proposed TW-12 will depend on the findings of the ARI performed by EGLE's Source Water Unit.
4. Evidence that the annular space between the drill holes and well casings have been properly filled with neat cement grout. This requirement also applies to any observation wells that will remain in the standard isolation area.
5. Chemical monitoring must be done on the water from the proposed test well to help determine if there are similarities between the existing observation wells and the proposed test well, and to determine the potability of the water produced from the new well. A copy of the required chemical monitoring is included with this letter. The final permit will not be issued until the chemical monitoring has been completed and reviewed by this office.
6. Detailed plans and specifications must be submitted for the test well including depth, diameter, pump setting, pump curves, etc. must be collected at the end of the pump test for analysis. Copies of the analytical results along with conclusions and recommendations on the water quality will need to be included in the Report. Information on EGLE's Drinking Water Laboratory and list of other certified laboratories can be viewed at [www.michigan.gov/drinkingwater](http://www.michigan.gov/drinkingwater).

This test well approval letter does not approve TW-12 for use as a production well or connection to a community water supply system. Installation of pump equipment and related appurtenances enabling a connection to the water system is prohibited. Before construction of the proposed 12-inch production well can begin, an Act-399 permit must be submitted to the Bay City District Office. A [Permit Application for Water Supply Systems](http://www.michigan.gov/drinkingwater) can be downloaded from [www.michigan.gov/drinkingwater](http://www.michigan.gov/drinkingwater) open Community Water Supply then under Manuals, Forms, and Brochures open Water Supply Permit Application. The permit application, construction specifications, and plans will need to be completed by an engineer registered in the State of Michigan.



This test well approval letter expires in two years of the date of this letter. This letter does not remove the need for other applicable local, state, or federal approvals or permits. If you should have any questions regarding this letter, please contact me by email at [mudds@michigan.gov](mailto:mudds@michigan.gov) or by using the information below.

Sincerely,



Shane Mudd  
District 22 Engineer  
Bay City District Office  
Drinking Water and Environmental Health  
Division  
517-388-3582

Enclosure(s)  
New Well Chemical Monitoring Requirements  
ODWMA-399-003 Aquifer Test Requirement for Public Water Supply Wells

cc: Shawn McBride, OIC  
Andrea Belanger, Gourdie Fraser  
Central Michigan Health Department

**CHEMICAL MONITORING REQUIREMENTS  
FOR NEW COMMUNITY WATER SUPPLY WELLS**

**PARTIAL CHEMISTRY**

(R, 32)\*  
Nitrate  
Nitrite  
Fluoride  
Sulfate  
Chloride  
Sodium

**WATER QUALITY PARAMETERS**

(CORR, 33)\*  
Alkalinity  
Calcium  
Conductivity  
pH (analyze in field)  
Temperature (analyze in field)

**GENERAL METALS**

(CPM1, 36ME)\*  
Iron  
Manganese  
Copper  
Zinc

**METALS**

(CMET2, 36ME)\*  
Arsenic  
Barium  
Cadmium  
Chromium  
Mercury  
Antimony  
Beryllium  
Nickel  
Selenium  
Thallium

**CYANIDE**

(CCN, 36CN)\*  
Cyanide

**VOLATILE ORGANICS (VOC)**

(CXVO, 36VO)\*  
Benzene  
Carbon Tetrachloride  
o-dichlorobenzene  
p-dichlorobenzene  
1,2-dichloroethane  
1,1-dichloroethylene  
cis-1,2-dichloroethylene  
trans-1,2-dichloroethylene  
Dichloromethane (methylene chloride)  
1,2-dichloropropane  
Ethylbenzene  
Monochlorobenzene  
Styrene  
Tetrachloroethylene  
Toluene  
1,2,4-trichlorobenzene  
1,1,1-trichloroethane  
1,1,2-trichloroethane  
Trichloroethylene  
Xylenes (total)  
Vinyl Chloride

**SYNTHETIC ORGANICS (SOC)**

Pesticides  
(CXPT, 36PT)\*  
Alachlor  
Atrazine  
Benzo(a)pyrene  
Chlordane  
Di(2-ethylhexyl) adipate  
Di(2-ethylhexyl) phthalate  
Endrin  
Heptachlor  
Heptachlor Epoxide  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Lindane  
Methoxychlor  
Polychlorinated Biphenols  
Simazine  
Toxaphene

**SOC (cont.)**

Herbicides  
(CXHB, 36HB)\*  
Dinoseb  
Pentachlorophenol  
Picloram  
2,4-D  
2,4,5-TP (Silvex)  
  
Carbamates  
(CXLP, 36LP)\*  
Aldicarb  
Aldicarb Sulfoxide  
Aldicarb Sulfone  
Carbofuran  
Oxamyl (vydate)

**PFAS**

(CPFAS, 36PF)\*  
Perfluorobutanesulfonic Acid (PFBS)  
Perfluorohexane Sulfonic Acid (PFHxS)  
Perfluorononanoic Acid (PFNA)  
Perfluorooctane Sulfonic Acid (PFOS)  
Perfluorooctanoic Acid (PFOA)  
Perfluorohexanoic Acid (PFHxA)  
HFPO-DA

**RADIOACTIVITY**

(Not performed at EGLE Lab)\*  
Gross Alpha  
Radium 226  
Radium 228

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A certified laboratory must perform the above testing.

Michigan Department of Environment, Great Lakes, and Energy (EGLE) Laboratory scans may include other contaminants for which monitoring is not mandated.

\* EGLE Lab Test Code and Sample Unit